ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS.

1857.

ROYAL OBSERVATORY, GREENWICH.

INDICATIONS

OF

MAGNETOMETERS.

1857.

The establishment of Assistants in the Magnetical and Meteorological Department of the Royal Observatory consisted during the year 1857, of Mr. James Glaisher, the Superintendant, and Mr. Thomas Downs ; with three supernumerary assistants, to aid in the observations and reductions.

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

During the year 1857, Telescope-Observations of the Magnetometers have usually been made four times every day, except on Sundays, on which days two or three observations only have been taken ; but, though these observations are employed in forming the base-lines on the Photographic sheets, their immediate results are not necessarily given in the following pages.

Observations were made of the reading of the Horizontal Circle of the Theodolite by which the DECLINATION MAGNET is observed, corresponding to the Astronomical Meridian, on February 10, 12, 14, 18, 20, 26, March 8, 15, April 17, 23, May 8, 26, July 13, August 9, September 27, October 30, November 15, 17, December 20, 27.

Observations were made of the Collimation of the DECLINATION MAGNETOMETER; of the Torsion-force of its Suspension skein ; and of the Collimation of the Theodolite-Telescope ; on 1856, December 28, 29, 30, 31, 1857, January 1, 2, 3, 4, and 5 .

Observations of the Angle of Torsion of the HORIZONTAL FORCE MAGNETOMETER were made on 1856, December 28, 29, 30, 31, 1857, January 1 and 2. The angle determined was 43°. 8′. Observations were made for the times of vibration and readings of the scale for different readings of the torsion-circle on the same days, and the general conclusion was, that the scale-readings were nearly identical and had nearly the same value when the reading of the torsion-circle was 144°. 0′ (marked end West); and 230°. 30′ (marked end East). The reading adopted for the adjustment of the torsion-circle throughout the year (marked end West) was 144°. 0′.

The number used for the variation of horizontal force for a disturbance through one division of the scale, in parts of the whole horizontal force, is 0·0020524.

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

Observations of the times of vibration of the VERTICAL FORCE MAGNETOMETER in a vertical plane have usually been made three or four times a week. The adopted time of vibration till April 17, was 16ˢ·31 ; from April 18 to September 3, 17ˢ·25 ; and from September 4 to the end of the year, 16ˢ·00. Observations for the time of vibration in a horizontal plane were made in 1853, on January 3 and 4, and the time was found to be 25ˢ·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 0·001476 till April 17; 0·001319 from April 18 to September 3 ; and 0·001533 from September 4 to the end of the year : and these numbers have been used throughout their respective periods.

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

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

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

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

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	h m		Jan. 1 h m		Jan. 1 h m	°	°
				0. 0	·00936	1. 40	52 ·0	52 ·0
				0. 25	·00944	3. 40	53 ·0	53 ·3
				2. 21	·00880	9. 40	53 ·5	53 ·3
					·00917	21. 40	..	50 ·0
				7. 15	·00950			
					·01102			
				9. 52	·01040			
				18. 7	·00994			
				23. 59	·00965			
				Jan. 2		Jan. 2		
				1. 0	·01556	1. 40	50 ·8	51 ·6
				3. 45	·01519	3. 40	51 ·8	51 ·6
					·01476	9. 40	51 ·5	52 ·0
				6. 29	·01351	21. 40	47 ·5	48 ·5
				6. 45	·01359			
				7. 16	·01558			
				8. 50	·01596			
				12. 51	·01812			
				15. 11	·01790			
				22. 37	·01815			
				23. 59	·01754			
		Jan. 3		Jan. 3		Jan. 3		
		2. 3	·1066	1. 39	·01615	1. 40	50 ·0	51 ·0
		2. 28	·1067	3. 10	·01508	3. 40	51 ·7	51 ·5
		2. 50	·1062	5. 0	·01317	9. 40	49 ·0	49 ·4
		3. 9	·1066	6. 33	·01220	23. 25	45 ·0	46 ·0
		3. 30	·1063	7. 37	·01236			
		4. 12	·1069	10. 0	·01377			
		5. 31	·1068	17. 30	·01760			
		9. 6	·1074		·01714			
		9. 55	·1069	23. 35	·01712			
		10. 46	·1075					
		11. 2	·1072					
		11. 31	·1072					
		11. 53	·1076					
		12. 27	·1071					
		12. 54	·1076					
		13. 11	·1071					
		15. 53	·1075					
		18. 15	·1084					
		19. 39	·1080					
		20. 9	·1083					
		23. 59	·1074					
Jan. 4		Jan. 4		Jan. 4		Jan. 4		
0. 0	21. 42. 15	0. 0	·1074	0. 0	·01703	6. 40	45 ·8	46 ·4
0. 8	42. 10	2. 25	·1082	2. 51	·01735	12. 40	45 ·9	46 ·6
0. 53:	43. 30	3. 36	·1080	8. 38	·01612	13. 40	45 ·8	46 ·4
2. 23	42. 25	3. 50	·1084	16. 0	·01540	14. 40	46 ·0	46 ·5
2. 35	42. 50	4. 9	·1081	20. 4	·01473	15. 40	46 ·3	46 ·6
3. 26	40. 40	7. 13	·1086	23. 59	·01455	16. 40	47 ·0	46 ·8
3. 38	41. 25	12. 15	·1085			17. 40	47 ·5	47 ·0
3. 54	40. 20	12. 41	·1088			18. 40	47 ·9	47 ·0
4. 12	41. 40	13. 43	·1079			19. 40	48 ·1	47 ·1
4. 40	40. 40	13. 57	·1081			20. 40	48 ·2	47 ·0
5. 15	39. 30	14. 16	·1078			21. 40	48 ·0	46 ·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.
Jan. 4 h m	° ′ ″	Jan. 4 h m		h m		Jan. 4 h m	°	°
5. 53	21. 38. 40	14. 32	·1082			22. 40	48 ·0	46 ·6
10. 33	38. 25	15. 6	·1076			23. 40	48 ·0	46 ·6
12. 5	38. 10	15. 30	·1076					
12. 18	39. 30	16. 0	·1074					
12. 31	39. 0	16. 31	·1076					
12. 48	40. 0	17. 4	·1071					
13. 13	38. 30	18. 36	·1072					
14. 13	39. 35	20. 12	·1072					
14. 30	38. 20	20. 36	·1068					
	***	23. 59	·1062					
15. 8	37. 10							
15. 27	37. 30							
15. 45	37. 0							
16. 25	38. 40							
17. 4	36. 0							
	***							
19. 2	38. 30							
	***							
20. 6	38. 0							
21. 37	38. 30							
23. 30	42. 0							
Jan. 5		Jan. 5		Jan. 5		Jan. 5		
	(†)	0. 0	·1062	1. 12	·01700	0. 40	47 ·8	46 ·5
3. 0	21. 37. 20	2. 55	·1068	3. 21	·01693	1. 40	47 ·7	46 ·3
4. 47	37. 5	4. 50	·1068	3. 42	·01713	2. 40	48 ·0	46 ·5
5. 40	37. 35	5. 6	·1065		·01678	3. 40	48 ·0	46 ·5
5. 58	37. 10	5. 15	·1066	7. 24	·01729	4. 40	48 ·2	46 ·5
6. 9	37. 40	6. 37	·1062	10. 49	·01708	5. 40	48 ·0	46 ·5
6. 15	37. 15	7. 26	·1066	22. 41	·01657	6. 40	47 ·0	47 ·3
6. 39	38. 0	7. 48	·1062	23. 59	·01695	7. 40	47 ·5	48 ·0
7. 1	37. 0	9. 18	·1066			8. 40	47 ·0	47 ·0
7. 17	34. 40	9. 30	·1076			9. 40	46 ·2	45 ·5
7. 45	37. 0	10. 12	·1066			10. 40	46 ·0	44 ·3
7. 56	35. 5	13. 18	·1066			11. 40	45 ·8	45 ·0
8. 12	36. 50	18. 24	·1084			21. 40	41 ·3	42 ·5
8. 28	35. 25	19. 52	·1086					
9. 18	36. 50	22. 30	·1078					
9. 30	32. 40	22. 58	·1084					
10. 13	35. 0	23. 29	·1081					
10. 26	33. 0	23. 59	·1082					
11. 2	35. 0							
11. 43	35. 20							
12. 0	36. 30							
12. 8	35. 20							
12. 22	36. 40							
12. 30	36. 0							
12. 42	36. 40							
12. 54	35. 30							
14. 15	37. 0							
14. 28	37. 30							
14. 59	37. 10							
16. 0	36. 50							
17. 17	37. 30							
17. 22	37. 0							
17. 58	37. 5							
18. 24	36. 55							
21. 20	36. 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.

The Declination Magnet was under adjustment till January 4; the Horizontal Force Magnet till January 3.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 5								
h m	° ′ ″	h m		h m		h m	°	°
21. 37	21. 36. 45							
22. 11	36. 50							
23. 1	39. 0							
23. 8	38. 40							
23. 41	38. 30							
23. 59	38. 55							
Jan. 6		Jan. 6		Jan. 6		Jan. 6		
0. 0	21. 39. 0	0. 0	·1082	0. 36	·01695	1. 40	44 ·0	42 ·7
0. 40	40. 50	0. 28	·1084	1. 30	·01680	3. 40	44 ·5	43 ·5
	(†)	1. 30	·1081	2. 5	·01692	9. 40	44 ·5	44 ·5
2. 26	38. 45	2. 18	·1082	3. 52	·01598	21. 40	40 ·0	41 ·5
3. 30	38. 0	4. 9	·1075	7. 30	·01364			
3. 52	38. 10	4. 23	·1076	10. 0	·01296			
4. 30	37. 40	4. 54	·1073	17. 39	·01443			
5. 14	37. 40	10. 10	·1081	21. 36	{·01640			
5. 48	37. 5	13. 35	·1084		{·01593			
6. 38	37. 0	20. 18	·1100	23. 59	·01615			
7. 11	36. 45	23. 54	·1087		•			
7. 43	37. 30							
9. 10	36. 50							
9. 30	37. 20							
9. 42	37. 0							
10. 8	37. 10							
10. 21	37. 0							
10. 50	37. 20							
13. 30	38. 30							
15. 48	38. 20							
21. 28	36. 50							
22. 22	37. 30							
22. 36	38. 5							
23. 18	38. 0							
23. 32	38. 45							
23. 59	39. 30							
Jan. 7		Jan. 7		Jan. 7		Jan. 7		
0. 0	21. 39. 30	0. 0	·1088	0. 0	·01600	1. 40	41 ·0	41 ·7
1. 40	39. 57*	0. 58	·1090	2. 9	·01611	3. 40	42 ·0	42 ·0
3. 40	40. 1*	1. 27	·1089	3. 36	·01570	9. 40	43 ·0	43 ·2
9. 40	37. 22*	1. 52	·1082	8. 20	·01261	21. 40	40 ·4	41 ·0
21. 57	38. 6*	2. 14	·1082	11. 4	·01155			
		2. 22	·1079	15. 2	·01123			
		3. 6	·1079	20. 22	·01318			
		3. 16	·1082	23. 59	·01455			
		3. 30	·1080					
		3. 46	·1081					
		4. 5	·1076					
		4. 19	·1078					
		4. 47	·1074					
		5. 16	1079 ***					
		5. 54	·1074 ***					
		6. 16	·1074 ***					
		6. 30	·1077 ***					
		7. 3	·1073 ***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Jan. 7						
h m	° ′ ″	h m		h m		h m	°	°
		7. 21	·1076 ***					
		7. 31	·1069 ***					
		8. 0	·1077 ***					
		8. 7	·1081 ***					
		8. 15	·1074					
		12. 25	·1078					
		13. 0	·1085					
		13. 27	·1081					
		14. 39	·1082					
		15. 1	·1086					
		15. 23	·1086					
		17. 37	·1091					
		17. 55	·1087					
		18. 47	·1094					
		19. 15	·1090 ***					
		19. 28	·1092 ***					
		20. 0	·1090 ***					
		22. 54	·1076 (†)					
Jan. 8		Jan. 8		Jan. 8		Jan. 8		
1. 5	21. 41. 40 ***	1. 7	·1076	1. 6	·01460	1. 40	41 ·0	41 ·6
		5. 16	·1068	2. 4	·01482	3. 40	44 ·0	45 ·0
3. 29	40. 0	6. 10	·1076	3. 25	·01457	7. 36	44 ·5	44 ·7
3. 45	38. 20	8. 4	·1078	5. 12	·01342	21. 40	45 ·1	45 ·1
5. 10	38. 30	9. 43	·1074	8. 56	·01011			
6. 1	36. 5	11. 7	·1076	11. 5	·00900			
9. 15	35. 30	12. 39	·1073	20. 10	·00727			
9. 44	34. 30	13. 44	·1083	23. 21	·00711			
10. 17	35. 40	14. 2	·1078					
11. 31	36. 0	19. 34	·1086					
12. 0	35. 30	23. 46	·1079					
12. 54	36. 30	23. 59	·1082					
13. 3	35. 30							
13. 44	36. 5							
14. 44	37. 0							
21. 33	35. 30							
22. 50	37. 35							
23. 24	37. 55							
Jan. 9		Jan. 9		Jan. 9		Jan. 9		
0. 7	21. 37. 30	0. 0	·1082	0. 0	·00694	1. 40	47 ·5	47 ·2
0. 22	37. 5	0. 21	·1079	0. 40	·00680	3. 40	49 ·0	47 ·6
0. 48	37. 10 ***	0. 45	·1079	2. 6	·00734	9. 48	49 ·8	50 ·0
		0. 59	·1082	4. 21	·00781	21. 40	49 ·2	49 ·6
1. 40	38. 10	3. 27	·1077	5. 28	{·00760			
3. 0	37. 30	5. 46	·1078		{·00812			
5. 32	36. 35	13. 25	·1079	23. 21	·00787			
10. 0	35. 20	16. 10	·1083					
11. 18	36. 0	20. 11	·1084					
15. 3	37. 40	23. 59	·1074					

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. 9								
h m	° ′ ″	h m		h m		†h m	°	°
18. 54	21. 37. 0							
22. 2	35. 30							
22. 16	36. 0							
23. 39	37. 30							
23. 59	38. 0							
Jan. 10		Jan. 10		Jan. 10		Jan. 10		
0. 0	21. 38. 0	0. 0	·1074	0. 30	·01240	1. 40	51 ·2	50 ·8
2. 14	38. 5	6. 52	·1073	3. 0	·01118	3. 40	52 ·8	51 ·5
4. 41	36. 30	7. 46	·1070	4. 7	·01020	9. 40	52 ·5	52 ·3
5. 0	37. 0	8. 32	·1064		·01060	22. 46	49 ·0	49 ·6
6. 54	36. 0	9. 54	·1071	8. 4	·01014			
8. 12	36. 30	10. 5	·1075	9. 6	·01027			
8. 40	34. 25		***	13. 17	·01196			
9. 2	34. 50	13. 48	·1075	20. 52	·01305			
9. 12	34. 30	14. 56	·1084	22. 34	·01354			
10. 15	36. 0	15. 8	·1081					
11. 13	35. 30	15. 36	·1085					
11. 54	36. 20	16. 47	·1082					
12. 6	36. 50	18. 27	·1089					
12. 30	36. 20	19. 34	·1078					
13. 32	37. 35	20. 10	·1086					
13. 55	37. 0	21. 52	·1070					
14. 9	38. 0	22. 12	·1072					
14. 22	37. 30	23. 22	·1064					
14. 29	37. 35	23. 59	·1067					
14. 48	36. 30							
15. 12	36. 20							
15. 28	37. 5							
15. 54	33. 55							
16. 6	34. 20							
16. 14	33. 30							
16. 24	33. 30							
16. 43	35. 55							
16. 52	36. 20							
17. 13	37. 30							
17. 24	36. 30 ***							
18. 23	36. 0							
19. 11	37. 15							
19. 42	40. 30 ***							
20. 47	40. 50							
20. 58	38. 20							
21. 29	36. 30 ***							
21. 56	36. 30							
22. 33	37. 50							
22. 57	38. 0							
23. 43	40. 5							
23. 59	40. 0							
Jan. 11		Jan. 11		Jan. 11		Jan. 11		
0. 0	21. 40. 0	0. 0	·1067	0. 0	·01377	11. 11	46 ·0	47 ·0
1. 11	38. 50	2. 10	·1076	8. 21	·01617	12. 40	47 ·1	47 ·7
1. 24	39. 30	6. 9	·1074	13. 51	·01693	13. 40	47 ·0	47 ·6
1. 31	39. 10	6. 26	·1069		·01650	14. 40	47 ·2	47 ·2
3. 1	39. 20	6. 54	·1073	14. 20	·01680	15. 40	47 ·5	47 ·5

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 11		Jan. 11		Jan. 11		Jan. 11		
h m	° ′ ″	h m		h m		h m	°	°
3. 13	21. 38. 35	7. 24	·1074	14. 37	·01656	16. 40	48 ·2	47 ·5
3. 32	38. 40	8. 30	·1079	16. 22	·01676	17. 40	48 ·2	47 ·2
4. 7	38. 0	8. 51	·1078		·01404	18. 40	48 ·8	47 ·2
6. 28	37. 30	9. 54	·1078	23. 59	·01410	19. 40	49 ·0	47 ·2
6. 52	38. 30	10. 4	·1084			20. 40	49 ·2	47 ·3
7. 23	37. 10	10. 24	·1080			21. 40	49 ·0	47 ·3
8. 10	37. 45	12. 26	·1081			22. 40	49 ·0	47 ·4
8. 49	36. 30	14. 25	·1077			23. 40	49 ·2	47 ·4
13. 2	36. 35	14. 56	·1087					
14. 0	35. 30	15. 35	·1069					
14. 24	36. 20	16. 3	·1075					
14. 44	40. 40	18. 0	·1068					
15. 19	34. 35	19. 0	·1072					
15. 37	37. 30	19. 1	·1068					
16. 7	37. 35	20. 57	·1066					
16. 29	35. 10 ***	23. 59	·1052					
17. 22	36. 0							
18. 0	37. 10							
18. 45	35. 40							
19. 13	36. 30 ***							
19. 58	37. 0							
20. 6	36. 10 ***							
21. 48	35. 25 ***							
23. 30	37. 0 ***							
23. 52	38. 5							
23. 59	37. 20							
Jan. 12		Jan. 12		Jan. 12		Jan. 12		
0. 0	21. 37. 20 ***	0. 0	·1052	1. 30	·01394	0. 40	49 ·6	47 ·7
		0. 15	·1054 ***	2. 43	·01290	1. 40	50 ·2	48 ·3
0. 36	38. 25			4. 50	·01046	2. 40	51 ·3	49 ·0
1. 16	39. 0	2. 30	·1064 ***	6. 47	·01024	3. 40	52 ·2	49 ·5
1. 45	40. 30				·01166	4. 40	52 ·5	50 ·3
2. 15	39. 0	4. 52	·1051 ***	7. 45	·01160	5. 40	53 ·0	50 ·7
2. 33	39. 20 ***	7. 11	·1049	8. 21	·01196	6. 40	52 ·6	50 ·4
3. 0	38. 20	7. 26	·1053	8. 48	·01214	7. 40	52 ·4	50 ·3
3. 29	38. 45	7. 45	·1046	9. 6	·01255	8. 40	52 ·4	50 ·3
3. 44	37. 30	8. 4	·1049	9. 52	·01260	9. 40	52 ·0	50 ·0
4. 46	38. 30	8. 15	·1046	16. 6	·01497	10. 40	51 ·5	50 ·0
4. 58	37. 30	8. 27	·1049	18. 24	·01641	11. 40	51 ·5	50 ·0
5. 30	36. 30	8. 39	·1038	18. 33	·01625	21. 40	45 ·0	45 ·2
6. 0	38. 30 ***	9. 0	·1063	22. 37	·01597			
		9. 46	·1049	23. 59	·01618			
6. 30	37. 30	10. 58	·1057					
6. 44	38. 10 ***	11. 16	·1054 ***					
7. 17	37. 20	17. 20	·1074					
7. 33	38. 40	20. 11	·1081					
8. 0	36. 30	21. 32	·1077					
8. 11	36. 0	21. 47	·1072					
8. 15	36. 35	23. 50	·1068					
8. 36	34. 20							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 12								
h m	° ′ ″	h m		h m		h m	°	°
8. 58	21. 24. 30							
9. 19	33. 50							
9. 32	32. 30							
10. 48	33. 45							
11. 37	33. 25							
12. 15	35. 20							
14. 5	36. 0							
14. 53	37. 10							
19. 9	36. 30							
19. 44	37. 30							
20. 0	36. 25							
22. 12	35. 50							
22. 57	38. 0							
23. 59	39. 10							
Jan. 13		Jan. 13		Jan. 13		Jan. 13		
0. 0	21. 39. 15	0. 0	·1066	0. 6	·01615	1. 40	45·5	45·3
0. 26	38. 30	1. 25	·1066	3. 9	·01637	3. 40	46·7	45·2
1. 0:	39. 55	2. 2	·1060	5. 7	·01580	9. 40	48·0	47·4
	***	2. 35	·1068	8. 45	·01412	21. 40	41·5	42·7
3. 15	37. 35	3. 30	·1064	14. 20	·01371			
4. 14	37. 40	4. 5	·1066	14. 49	·01475			
5. 0	37. 0	5. 0	·1066	19. 5	{·01616			
6. 42	37. 0	6. 10	·1067		{·01538			
7. 43	35. 30	7. 45	·1062	23. 31	·01551			
8. 15	36. 0	8. 10	·1064					
8. 32	35. 30	8. 46	·1062					
10. 9	35. 10	9. 43	·1064					
10. 27	34. 30	11. 21	·1064					
10. 53	35. 35	11. 37	·1068					
11. 23	34. 0	12. 13	·1066					
14. 40	37. 30	17. 15	·1087					
17. 27	37. 20	20. 25	·1094					
19. 53	37. 35	23. 59	·1070					
22. 10	36. 25							
22. 14	35. 30							
22. 18	37. 5							
22. 25	35. 35							
22. 30	37. 0							
22. 58	36. 30							
23. 59	38. 20							
Jan. 14		Jan. 14		Jan. 14		Jan. 14		
0. 0	21. 38. 20	0. 0	·1070	0. 0	·01557	1. 40	43·3	43·2
0. 45	41. 30		***	0. 45	{·01564	3. 40	45·5	45·0
1. 7	40. 55	0. 29	·1069		{·01397	9. 40	45·5	46·0
1. 18	41. 30		***	2. 36	·01380	21. 40	37·3	38·8
1. 44	40. 30	0. 47	·1074	7. 38	·00878			
3. 0	39. 25		***	9. 0	·00822			
4. 3	37. 20	1. 12	·1068	10. 51	·00835			
8. 25	36. 45		***	11. 4	{·00856			
8. 43	35. 50	1. 27	·1072		{·00975			
8. 57	36. 30		***	14. 0	·01200			
9. 5	35. 40	1. 46	·1068	16. 54	·01512			
9. 17	36. 30		***	17. 4	·01496			
9. 30	35. 30	2. 52	·1072	23. 59	·01496			
10. 4	36. 30		***					
10. 22	35. 40	3. 44	·1072					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 14		Jan. 14						
h m	° ′ ″	h m		h m		h m	°	°
12. 52	21. 35. 30	4. 4	·1069					
13. 15	36. 35		***					
13. 49	36. 55	5. 26	·1070					
14. 41	37. 55	9. 3	·1071					
15. 30	37. 30	9. 40	·1078					
15. 55	39. 0	10. 16	·1074					
	***		***					
18. 0	37. 0	14. 24	·1089					
18. 14	37. 35	16. 35	·1092					
18. 30	37. 0	16. 52	·1095					
18. 45	38. 0	17. 0	·1098					
19. 40	38. 0	20. 39	·1101					
	***	22. 0	·1092					
21. 14	36. 10	23. 59	·1080					
22. 25	37. 0							
22. 40	36. 10							
23. 19	37. 30							
23. 49	36. 30							
23. 59	36. 35							
Jan. 15		Jan. 15		Jan. 15		Jan. 15		
0. 0	21. 36. 35	0. 0	·1080	0. 30	·01500	1. 40	40·0	40·6
	***	1. 43	·1081	1. 30	·01474	3. 40	41·8	43·0
2. 40	38. 40	3. 9	·1072	3. 6	·01357	9. 40	46·8	46·7
	***	3. 21	·1084	4. 52	·01143	21. 40	42·7	44·0
4. 45	36. 30	4. 13	·1081	6. 53	·00807			
	***	4. 28	·1075	8. 32	·00881			
7. 30	37. 30	4. 40	·1083	14. 7	·00796			
8. 15	27. 0	5. 26	·1085	17. 0	·00845			
8. 46	34. 30	6. 15	·1083	20. 38	·00996			
9. 3	33. 5	6. 29	·1078	23. 59	·01157			
9. 17	33. 10	6. 37	·1081					
10. 5	35. 30	8. 16	·1052					
10. 58	33. 40	8. 36	·1062					
12. 15	35. 35	8. 48	·1061					
12. 36	34. 30	9. 44	·1076					
13. 15	36. 0	9. 53	·1070					
15. 8	37. 30	10. 0	·1074					
	***	10. 15	·1074					
20. 40	37. 0	10. 32	·1079					
	***	11. 2	·1069					
22. 8	35. 30	11. 12	·1074					
	***	11. 18	·1069					
22. 54	37. 15	11. 30	·1069					
	(†)	11. 47	·1077					
		12. 0	·1076					
		12. 23	·1083					
		12. 40	·1078					
		16. 34	·1092					
		17. 18	·1091					
		18. 24	·1097					
		19. 9	·1098					
		20. 4	·1089					
		20. 40	·1093					
		23. 3	·1080					
			(†)					

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. 16		Jan. 16		Jan. 16		Jan. 16		
h m	° ′ ″	h m		h m		h m	°	°
	(†)		(†)	0. 53	·01197	1. 40	45 ·0	45 ·0
1. 2	21. 39. 0	1. 0	·1078	2. 6	·01192	3. 40	47 ·2	47 ·5
1. 26	38. 0	1. 17	·1069	4. 22	·00968	9. 40	50 ·0	49 ·0
1. 50	39. 30	1. 45	·1068		·00935	21. 40	43 ·0	43 ·2
	***	2. 40	·1074	4. 47	·00882			
2. 44	39. 30	2. 50	·1081		·00937			
3. 0	40. 30	3. 28	·1076	8. 6	·00934			
4. 3	38. 0	4. 0	·1080	8. 16	·01000			
	***	4. 45	·1079	9. 24	·01042			
6. 15	36. 0	5. 2	·1082	9. 42	·00990			
7. 18	35. 45	5. 20	·1077	11. 4	·00983			
8. 0	31. 30	6. 12	·1078	11. 45	·01024			
	***	7. 56	·1068	12. 22	·00970			
8. 45	31. 5	8. 32	·1051	12. 47	·01012			
9. 5	25. 0	9. 18	·1039	13. 21	·00980			
9. 27	24. 5	9. 43	·1086	13. 25	·01001			
9. 44	32. 50	10. 21	·1049	13. 53	·00940			
9. 56	22. 30	10. 40	·1052	16. 0	·00958			
10. 10	27. 5	10. 54	·1046		·01150			
10. 42	18. 45	11. 7	·1022	19. 8	·01405			
11. 0	22. 5	11. 19	·1024	22. 0	·01700			
11. 24	20. 0	11. 28	·1034	22. 37	·01672			
11. 42	22. 35	11. 52	·1036	23. 59	·01669			
12. 16	35. 10	12. 0	·1047					
12. 45	21. 20	12. 16	·1052					
13. 12	25. 30		***					
13. 25	23. 30	12. 45	·1029					
13. 42	37. 30		***					
13. 58	38. 50	13. 0	·1055					
14. 7	38. 0		***					
14. 36	27. 0	13. 16	·1056					
	***		***					
14. 49	29. 50	13. 35	·1040					
14. 57	28. 45		***					
15. 5	31. 30	13. 46	·1085					
15. 11	30. 0		***					
15. 26	31. 0	14. 34	·1046					
15. 42	35. 30		***					
15. 50	37. 30	15. 10	·1062					
16. 4	36. 25		***					
16. 15	37. 10	15. 37	·1055					
16. 29	36. 0		***					
17. 3	35. 5	17. 22	·1076					
17. 42	38. 15		***					
18. 10	37. 35	17. 58	·1078					
18. 15	38. 45		***					
18. 27	37. 30	18. 25	·1085					
	***		***					
19. 30	38. 0	18. 30	·1082					
19. 54	39. 35		***					
	***	19. 0	·1092					
23. 0	34. 30		***					
	***	19. 6	·1087					
23. 15	37. 40		***					
23. 43	37. 0	19. 33	·1087					
23. 59	40. 15		***					
		20. 12	·1075					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Mag
h m	° ′ ″	Jan. 16 h m		h m		h m	°	°
		21. 25	·1080					
			***					
		22. 40	·1068					
			***					
		23. 59	·1068					
Jan. 17		Jan. 17		Jan. 17		Jan. 17		
0. 0	21. 40. 15	0. 0	·1068	0. 52	·01680	1. 40	45 ·5	44 ·5
0. 10	42. 30		***	1. 55	·01696	3. 40	47 ·7	47 ·3
0. 30	41. 0	2. 45	·1062	2. 39	·01677	9. 40	48 ·3	48 ·0
0. 48	42. 0		***	3. 0	·01637	22. 55	47 ·0	47 ·5
1. 15	39. 0	2. 58	·1049	3. 34	·01620			
2. 44	41. 30		***	4. 30	·01511			
3. 9	36. 20	3. 12	·1048	6. 39	·01176			
3. 15	37. 0		***	9. 23	·00970			
3. 39	32. 30	3. 16	·1041	12. 0	·00877			
4. 16	39. 30		***	17. 9	·00916			
4. 29	38. 10	4. 9	·1056	23. 0	·00874			
4. 42	41. 0		***		·00950			
	***	5. 55	·1069					
5. 40	37. 0		***					
6. 27	37. 45	7. 26	·1069					
	***		***					
7. 11	36. 0	8. 48	·1065					
7. 42	36. 40		***					
	***	9. 9	·1068					
8. 35	33. 0		***					
9. 11	34. 40	9. 30	·1067					
10. 0	32. 10		***					
10. 30	34. 0	9. 58	·1071					
	***		***					
11. 43	33. 0	10. 17	·1067					
12. 17	35. 30		***					
15. 42	37. 0	11. 22	·1072					
16. 12	36. 30		***					
16. 35	37. 0	16. 26	·1075					
	***		***					
21. 54	36. 0	20. 19	·1084					
	***		***					
23. 59	39. 0	23. 59	·1071					
Jan. 18		Jan. 18		Jan. 18		Jan. 18		
0. 0	21. 39. 0	0. 0	·1071	0. 0	·00944	8. 5	49 ·5	51 ·0
1. 47	40. 50	0. 52	·1069	3. 48	·00989	12. 40	50 ·5	51 ·0
2. 6	40. 0	2. 45	·1071	8. 0	·00992	13. 40	51 ·0	51 ·4
2. 26	40. 25	2. 54	·1069	14. 10:	·00970	14. 40	50 ·7	51 ·5
3. 15	38. 25	3. 17	·1069	20. 27	·01036	15. 40	51 ·0	52 ·0
4. 18	39. 30	3. 40	·1076	21. 56	·01038	16. 40	51 ·5	52 ·6
5. 39	37. 20	5. 56	·1078	22. 8	·01077	17. 40	52 ·0	53 ·2
	***	6. 15	·1076	23. 5	·01060	18. 40	52 ·5	53 ·6
6. 26	37. 30	6. 32	·1076	23. 11	·01158	19. 40	53 ·5	54 ·0
6. 44	35. 0	6. 52	·1071	23. 30	·01162	20. 40	53 ·7	54 ·0
7. 10	37. 15	7. 15	·1076			21. 40	54 ·3	53 ·0
	***	8. 53	·1074			22. 40	54 ·4	53 ·5
8. 32	36. 50	9. 10	·1079			23. 40	54 ·4	54 ·0
8. 47	33. 30	9. 24	·1088					
8. 56	34. 30	9. 42	·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.
Jan. 18		Jan. 18						
h m	° ′ ″	h m		h m		h m	°	°
9. 11	21. 29. 30	10. 9	·1075					
9. 40	34. 0	12. 52	·1078					
10. 15	36. 0	16. 10	·1069					
14. 0	36. 10	17. 35	·1072					
	***	19. 9	·1067					
14. 55	37. 30	19. 50	·1073					
	***	23. 59	·1059					
16. 30	36. 0							
	***							
18. 45	37. 0							
	***							
21. 0	35. 0							
	***							
23. 4	37. 40							
	***							
23. 59	37. 30							
Jan. 19		Jan. 19		Jan. 19		Jan. 19		
0. 0	21. 37. 30	0. 0	·1059	1. 30	·01200	0. 40	54 ·5	54 ·0
2. 12	39. 5		***	2. 38	·01286	1. 40	55 ·0	54 ·0
2. 44	39. 50	2. 37	·1058	3. 37	·01328	2. 40	55 ·3	54 ·2
	***		***	4. 15	·01388	3. 40	55 ·7	54 ·0
3. 29	35. 0	3. 10	·1045	5. 0	·01400	4. 40	55 ·9	54 ·4
3. 56	35. 30	4. 6	·1055	5. 21	·01435	5. 40	55 ·9	54 ·1
4. 40	38. 45	5. 30	·1050	6. 36	·01474	6. 40	55 ·9	54 ·1
5. 15	37. 30	8. 27	·1053	10. 30	·01795	7. 40	56 ·0	54 ·1
5. 41	37. 45	10. 27	·1050	12. 12:	·01936	8. 40	55 ·2	53 ·5
5. 58	37. 0	11. 13	·1052	19. 0:	·01770	9. 40	55 ·0	53 ·2
10. 24	34. 0	11. 54	·1060	23. 42	·01770	10. 40	54 ·9	52 ·8
10. 44	31. 35	12. 23	·1052			11. 40	54 ·2	52 ·2
11. 2	31. 30	12. 42	·1055			21. 40	46 ·0	46 ·0
11. 18	33. 30	13. 8	·1055					
11. 43	32. 0	13. 22	·1056					
12. 8	33. 30	15. 10	·1065					
12. 30	33. 0	16. 0	·1071					
	***	18. 39	·1080					
14. 30	36. 50	20. 8	·1083					
	***	23. 59	·1071					
18. 2	37. 30							
	***							
21. 40	35. 30							
	***							
22. 20	36. 0							
	***							
23. 59	37. 35							
Jan. 20		Jan. 20		Jan. 20		Jan. 20		
0. 0	21. 37. 35	0. 0	·1071	0. 2	·01841	1. 40	47 ·0	46 ·7
0. 15	38. 20	0. 15	·1072	1. 26	·01836	3. 40	48 ·2	47 ·8
1. 22	37. 50	0. 46	·1068	1. 50	·01805	9. 40	47 ·8	47 ·0
2. 15	38. 30	1. 19	·1067	2. 27	·01810	21. 40	42 ·9	43 ·8
2. 41	37. 30	1. 30	·1071	5. 6	·01683			
5. 11	35. 30	3. 9	·1064	8. 0	·01415			
6. 45:	35. 0	3. 48	·1068	10. 19	·01340			
7. 45	35. 30	5. 50	·1072	15. 15	·01514			
18. 17	37. 30	9. 45	·1073	17. 5	{·01755			
20. 22	35. 40	13. 54	·1082		{·01697			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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	°	°
22. 33	21. 37. 10	20. 39	·1091	23. 59	·01690			
23. 59	39. 30	23. 59	·1074					
Jan. 21		Jan. 21		Jan. 21		Jan. 21		
0. 0	21. 39. 30	0. 0	·1074	0. 0	·01712	1. 40	44 ·0	43 ·3
	***	0. 9	·1074	2. 23	·01715	3. 40	46 ·0	45 ·0
1. 14	40. 40	0. 19	·1076	3. 47	·01628	9. 50	46 ·5	46 ·0
3. 2	38. 20	0. 56	·1068	8. 8	·01200	21. 40	40 ·7	42 ·0
3. 15	38. 30	2. 8	·1068	10. 13	·01169			
3. 42	37. 35	2. 43	·1070	15. 15	·01380			
6. 14	35. 20		***	20. 51	{·01694			
9. 8	35. 30	3. 39	·1067		{·01660			
15. 34	37. 10		***	23. 15	·01650			
18. 6	36. 55	4. 45	·1068	23. 59	·01635			
21. 30	35. 10		***					
22. 30	37. 0	8. 34	·1080					
	(†)	9. 28	·1080					
		10. 30	·1084					
		16. 16	·1099					
		20. 30	·1104					
		22. 36	·1091					
			(†)					
Jan. 22		Jan. 22		Jan. 22		Jan. 22		
0. 30	21. 38. 20	0. 18	·1087	0. 19	·01624	1. 40	43 ·5	44 ·0
2. 30	38. 10	1. 41	·1083	1. 42	·01570	3. 40	45 ·8	45 ·7
4. 21	36. 35	3. 17	·1084	4. 52	·01295	9. 40	47 ·2	45 ·5
11. 43	34. 45	7. 54	·1075	6. 39	·01108	21. 40	44 ·9	45 ·0
12. 33	32. 50	9. 41	·1078	7. 57	·01031			
13. 6	34. 30	10. 9	·1082	11. 51	·00980			
13. 30	34. 30	11. 57	·1078	13. 53	·00996			
13. 45	36. 0	12. 4	·1084	19. 6	·00840			
14. 25	36. 45	12. 30	·1080	20. 38	·00861			
14. 39	35. 50	15. 26	·1082	23. 36	·01000			
	***	16. 14	·1086					
15. 3	37. 0	17. 0	·1087					
15. 16	36. 30	17. 15	·1084					
	***	19. 24	·1097					
16. 11	37. 30	20. 10	·1095					
	***	21. 11	·1092					
17. 13	36. 0	21. 39	·1084					
	***	23. 23	·1076					
17. 45	37. 30	23. 59	·1078					
	***							
19. 30	36. 0							
	***							
22. 39	37. 0							
23. 59	40. 30							
Jan. 23		Jan. 23		Jan. 23		Jan. 23		
0. 0	21. 40. 30	0. 0	·1078	0. 0	·01025	1. 40	46 ·2	45 ·4
0. 22	39. 25	0. 25	·1078	1. 53	·01004	3. 40	48 ·6	47 ·3
0. 32	40. 0	1. 32	·1076	3. 7	·00940	9. 46	48 ·5	47 ·0
0. 49	38. 50	1. 50	·1078	4. 8	·00840	21. 40	42 ·2	42 ·5
1. 30	40. 0	2. 11	·1075	6. 0	·00867			
1. 43	39. 30	3. 12	·1079	9. 50	·00816			
1. 52	41. 0	4. 4	·1070	10. 39	·00834			
2. 55	38. 45	5. 30	·1075	15. 39	·01217			

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. 23		Jan. 23		Jan. 23				
h m	° ′ ″	h m		h m		h m	°	°
3. 15	21. 39. 30	6. 34	·1074	23. 5	·01560			
4. 8	37. 0	7. 10	·1057	23. 59	·01578			
4. 30	37. 0	7. 30	·1065					
4. 45	36. 0	7. 39	·1071					
5. 9	36. 30	8. 3	·1075					
5. 31	35. 30	8. 17	·1073					
5. 45	36. 10	8. 27	·1075					
6. 9	35. 30	8. 39	·1074					
6. 17	36. 30	8. 52	·1076					
6. 26	35. 0	9. 9	·1075					
6. 44	36. 0	10. 9	·1079					
7. 20	32. 5	11. 12	·1075					
7. 27	32. 35	11. 39	·1079					
7. 42	32. 0	11. 58	·1077					
	***	12. 14	·1082					
8. 26	36. 5	13. 30	·1081					
	***	16. 39	·1091					
10. 43	36. 0	17. 0	·1094					
11. 8	34. 30	17. 15	·1092					
11. 22	36. 25	18. 32	·1093					
11. 31	34. 30	19. 2	·1097					
11. 47	35. 30	20. 23	·1099					
12. 13	34. 30	21. 6	·1095					
12. 43	33. 35		***					
13. 31	36. 35	22. 15	·1094					
14. 5	36. 0	22. 44	·1089					
14. 36	36. 50	22. 59	·1083					
14. 41	35. 40		(†)					
15. 15	37. 30							
16. 22	37. 30							
17. 4	36. 5							
	***							
17. 29	37. 30							
17. 43	37. 0							
	***							
18. 46	37. 35							
18. 56	37. 0							
	***							
20. 55	37. 30							
21. 14	36. 35							
	***							
22. 10	36. 50							
22. 39	35. 50							
	***							
23. 37	38. 0							
23. 53	37. 30							
23. 59	37. 30							
Jan. 24		Jan. 24		Jan. 24		Jan. 24		
0. 0	21. 37. 30	0. 45	·1078	0. 40	·01575	1. 40	44 ·2	44 ·0
1. 32	38. 30	3. 34	·1074	2. 11	·01505	3. 40	46 ·5	45 ·7
4. 27	36. 50	11. 32	·1081	4. 0	·01377	9. 40	46 ·5	47 ·0
7. 45	35. 30	11. 45	·1083	6. 52	·01044	23. 16	41 ·0	40 ·8
10. 45	36. 35	12. 40	·1082	8. 9	·00973			
11. 25	34. 50	14. 22	·1086	10. 0	·00928			
11. 32	35. 20	19. 11	·1097	19. 15	·01140			
11. 59	34. 15	20. 45	·1095	23. 35	·01335			
13. 0	36. 30	20. 57	·1092					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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	°	°
18. 18	21. 37. 10	22. 36	·1089					
19. 11	36. 15	23. 33	·1083					
20. 8	36. 55							
20. 28	36. 5							
21. 5	36. 0							
22. 0	34. 45							
23. 59	37. 30							
Jan. 25		Jan. 25		Jan. 25		Jan. 25		
0. 0	21. 37. 30	0. 4	·1084	0. 0	·01354	6. 35	40 ·8	40 ·0
0. 15	37. 35	1. 39	·1086	5. 35	·01492	12. 40	41 ·5	43 ·0
0. 29	38. 50	2. 10	·1090	13. 51:	·01529	13. 40	41 ·5	43 ·0
0. 58	38. 0	2. 41	·1089	19. 6	·01575	14. 40	41 ·8	43 ·0
1. 22	40. 40	3. 37	·1096	21. 38	·01574	15. 40	41 ·8	43 ·0
2. 28	41. 10	4. 30	·1087	23. 59	·01456	16. 40	41 ·7	42 ·8
3. 11	39. 10	4. 46	·1092			17. 40	42 ·0	42 ·7
3. 30	39. 50	4. 55	·1089			18. 40	42 ·1	42 ·8
4. 13	39. 25	5. 9	·1092			19. 40	42 ·0	42 ·7
4. 45	39. 15	5. 16	·1090			20. 40	42 ·3	42 ·8
5. 4	39. 55	5. 42	·1092			21. 40	43 ·2	43 ·4
5. 52	38. 20	5. 53	·1088			22. 40	43 ·5	43 ·7
5. 58	38. 50	6. 4	·1090			23. 40	44 ·2	44 ·0
6. 5	38. 0	6. 18	·1082					
6. 20	40. 30	10. 54	·1080					
6. 44	39. 50	12. 48	·1086					
7. 30	41. 45	13. 10	·1085					
	***	13. 24	·1079					
8. 19	38. 40	14. 46	·1078					
8. 35	36. 20	15. 43	·1085					
8. 44	37. 40	15. 47	·1082					
8. 54	37. 0	16. 11	·1086					
9. 18	38. 0	16. 31	·1087					
9. 55	29. 20	16. 54	·1079					
10. 15	29. 0	17. 54	·1077					
	***	18. 7	·1083					
11. 0	33. 30	18. 20	·1087					
11. 43	34. 40	18. 45	·1088					
12. 5	33. 20	18. 48	·1083					
12. 27	35. 30	19. 7	·1088					
12. 36	35. 0	19. 32	·1089					
13. 47	38. 0	19. 47	·1091					
15. 39	38. 10	19. 54	·1083					
16. 9	37. 30	20. 45	·1076					
	***	23. 59	·1074					
17. 52	38. 30							
18. 55	37. 25							
19. 53	37. 50							
	***							
21. 22	34. 20							
	***							
22. 39	34. 30							
	***							
23. 37	37. 0							
23. 42	36. 0							
Jan. 26		Jan. 26		Jan. 26		Jan. 26		
0. 26	21. 38. 30	0. 0	·1074	0. 40	·01420	0. 40	45 ·0	44 ·4
0. 42	39. 55	9. 5	·1076	3. 49	·01297	1. 40	45 ·1	44 ·4
	***							

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. 26		Jan. 26		Jan. 26		Jan. 26		
h m	° ′ ″	h m		h m		h m	°	°
2. 10	21. 40. 30	9. 30	·1078	9. 8	·00971	2. 40	45·4	44·7
3. 43	39. 45	17. 28	·1082	15. 7	·00889	3. 40	45·9	45·1
4. 12	37. 55	18. 37	·1087	18. 35	·00985	4. 40	46·6	46·0
4. 30	38. 20	19. 26	·1088	22. 6	·01176	5. 40	47·0	46·3
5. 15	37. 0	20. 30	·1090	23. 59	·01248	6. 40	47·0	46·5
6. 58	36. 40	22. 5	·1083			7. 40	47·4	46·1
7. 17	34. 15	23. 59	·1081			8. 40	47·3	46·2
7. 43	34. 30					9. 40	47·0	46·0
8. 6	36. 30					10. 40	47·0	46·0
8. 30	35. 0					11. 40	46·8	46·0
8. 46	35. 45					21. 40	42·2	43·0
10. 0	34. 30							
10. 36	30. 50							
10. 57	32. 50							
11. 29	33. 25							
11. 55	33. 30							
12. 31	35. 30							
13. 2	35. 45							
13. 36	34. 10 ***							
17. 6	38. 20							
17. 30	37. 15							
17. 58	37. 30							
20. 26	36. 15							
22. 10	34. 0							
23. 59	36. 5							
Jan. 27				Jan. 27		Jan. 27		
0. 0	21. 36. 10			0. 36	·01266	1. 40	43·0	43·7
0. 56	37. 20			3. 15	·01277	3. 40	44·7	44·4
1. 8	38. 10			6. 4	·01100	9. 40	44·0	44·3
2. 20	38. 45			8. 0	·00975	21. 40	35·3	37·3
3. 30	37. 50			9. 48	·00953			
4. 36	38. 25			13. 40	·01134			
5. 30	36. 30			18. 49	·01600			
6. 9	38. 0			18. 53	·01572			
6. 18	37. 35			22. 21	·01536			
6. 35	38. 0				·01441			
6. 45	36. 30			23. 59	·01509			
8. 19	36. 0							
10. 15	36. 5							
11. 13	33. 15							
11. 24	33. 40							
11. 54	30. 30							
12. 28	35. 30							
13. 9	33. 10							
14. 30	37. 35							
14. 57	37. 25							
15. 30	38. 0							
15. 48	37. 20 ***							
17. 10	38. 30 ***							
20. 0	37. 30 ***							
22. 11	35. 35 ***							
23. 59	37. 40							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 28				Jan. 28		Jan. 28		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 37. 40 ***			0. 30	·01517	1. 40	37·0	37·8
2. 0	40. 20			2. 6	·01520	3. 40	39·2	39·4
2. 16	38. 45			3. 19	·01475	9. 40	41·5	41·5
3. 20	38. 0 ***			4. 7	·01406	21. 40	36·0	38·0
4. 2	38. 0 ***			7. 10	·01080			
4. 17	37. 20 ***			8. 52	·00955			
5. 33	36. 30			11. 37	·00865			
6. 2	37. 0			14. 56	·00840			
11. 7	34. 45			17. 45	·00907			
11. 23	33. 0			20. 19	·01045			
11. 45	31. 0			23. 59	·01358			
12. 12	32. 40							
12. 26	32. 0							
12. 35	32. 45							
13. 7	34. 40							
13. 30	34. 15 ***							
14. 15	36. 40							
15. 6	35. 35 ***							
16. 15	37. 50							
16. 50	37. 50 ***							
17. 12	36. 5 ***							
18. 42	36. 15							
19. 1	37. 0 ***							
20. 9	36. 30							
20. 15	37. 15 ***							
21. 44	36. 0							
23. 7	35. 30 ***							
23. 59	37. 35							
Jan. 29		Jan. 29		Jan. 29		Jan. 29		
0. 0	21. 37. 35 ***	3. 40	·1096*	0. 47	·01367	1. 45	39·0	38·0
		9. 40	·1101*	2. 20	·01395	3. 40	41·0	39·7
1. 27	40. 0	21. 40	·1124*	3. 0	·01380	9. 40	42·0	41·8
2. 36	40. 10			4. 9	·01280	21. 40	32·8	34·0
3. 12	38. 25			6. 15	·01037			
3. 41	37. 50			8. 30	·00867			
5. 28	36. 30			10. 41	·00798			
7. 57	36. 0			13. 36	·00844			
10. 58	35. 35			16. 0	·01030			
12. 11	36. 30			20. 7	·01461			
12. 36	35. 30				·01424			
13. 26	37. 45			23. 59	·01455			
13. 58	36. 20							
15. 7	39. 0							
15. 43	37. 40 ***							
19. 54	37. 20 ***							

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

January 27 and 28. The results of Magnetic Horizontal Force show no change ; it is suspected that the magnet was resting against the copper bar.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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. 30		Jan. 30		Jan. 30		
h m	° ′ ″	h m		h m		h m	°	°
22. 0	21. 35. 0	0. 23	·1114	0. 45	·01457	1. 40	34 ·2	35 ·0
	***		***	2. 33	·01450	3. 40	37 ·1	37 ·0
23. 55	37. 40	2. 15	·1111	2. 52	·01083	9. 40	41 ·1	39 ·4
			***	4. 6	·00978	21. 40	39 ·5	40 ·5
Jan. 30		3. 6	·1112	6. 35:	·00669			
0. 26	21. 38. 10		***	23. 59	·00637			
	***	3. 21	·1116					
1. 39	39. 50		***					
5. 48	36. 20	5. 25	·1118					
6. 15	36. 40	7. 32	·1111					
7. 56	34. 35	8. 10	·1113					
8. 14	33. 20	9. 9	·1108					
8. 54	35. 30	9. 16	·1111					
9. 18	33. 55	10. 0	·1103					
9. 54	34. 30	10. 44	·1110					
10. 26	32. 45	11. 7	·1108					
11. 0	34. 0	11. 43	·1112					
12. 8	34. 30	12. 8	·1110					
14. 9	34. 40	12. 30	·1113					
15. 23	36. 45	15. 10	·1115					
15. 48	36. 15	15. 25	·1118					
	***	20. 25	·1122					
18. 0	37. 0		***					
	***	22. 15	·1112					
22. 15	34. 30		***					
23. 32	36. 25	23. 37	·1106					
23. 59	37. 30	23. 59	·1108					
Jan. 31		Jan. 31		Jan. 31		Jan. 31		
0. 0	21. 37. 30	0. 0	·1108	0. 40	·00625	1. 40	41 ·4	41 ·3
			***	1. 54	·00674	3. 40	43 ·0	42 ·5
1. 41	40. 30	1. 10	·1108	2. 35	·00816	9. 40	41 ·2	42 ·0
2. 44	40. 10		***	5. 13	{·00780	22. 32	34 ·2	36 ·2
3. 17	38. 35	2. 19	·1116		{·00948			
3. 43	39. 15		***	6. 6	·00907			
4. 45	37. 30	3. 14	·1108	10. 15	·00950			
5. 6	37. 40		***	13. 37	·01043			
5. 19	37. 10	4. 20	·1115	16. 49	·01256			
	***		***	20. 22	·01577			
6. 45	38. 40	4. 37	·1113	20. 48	·01560			
7. 0	38. 0		***	22. 37	·01546			
7. 13	38. 10	4. 55	·1114		(†)			
7. 30	36. 45		***					
8. 19	36. 15	5. 18	·1111					
8. 29	37. 5		***					
9. 17	35. 35	6. 7	·1116					
10. 10	35. 25		***					
10. 39	32. 25	6. 40	·1113					
11. 29	35. 0		***					
11. 47	33. 40	6. 49	·1120					
	***		***					
12. 37	32. 30	7. 14	·1117					
	***		***					
12. 59	35. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 31		Jan. 31				Feb. 1		
h m	° ′ ″	h m		h m		h m	°	°
13. 33	21. 32. 40	7. 26	·1123			11. 40	33 ·3	35 ·4
14. 0	35. 40		***			12. 40	33 ·3	35 ·6
15. 15	37. 10	7. 46	·1122			13. 40	33 ·4	35 ·9
15. 33	36. 30		***			14. 40	34 ·0	36 ·1
	***	8. 7	·1124			15. 40	34 ·4	36 ·3
16. 58	38. 0		***			16. 40	35 ·1	36 ·5
	***	8. 16	·1119			17. 40	36 ·2	36 ·6
17. 54	37. 10		***			18. 40	36 ·5	36 ·6
	***	8. 24	·1122			19. 40	37 ·0	37 ·0
18. 42	38. 0		***			20. 40	37 ·1	37 ·0
	***	8. 51	·1121			21. 40	37 ·7	37 ·5
19. 7	37. 15		***			22. 40	38 ·1	37 ·7
	***	9. 6	·1124			23. 40	38 ·7	37 ·7
19. 49	38. 30		***					
	***	9. 15	·1121					
22. 6	37. 0	10. 22	·1115					
23. 59	38. 30	11. 52	·1122					
			***					
		12. 23	·1117					
			***					
		13. 7	·1124					
			***					
		15. 10	·1122					
			***					
		21. 2	·1134					
			***					
		21. 27	·1130					
			***					
		22. 30	·1132					
			(†)					
Feb. 1		Feb. 1		Feb. 1		Feb. 2		
0. 0	21. 38. 30	0. 30	·1126	0. 38	·01520	0. 40	39 ·7	38 ·8
0. 43	39. 25	0. 43	·1123	4. 24	·01533	1. 40	40 ·2	39 ·5
1. 54	41. 35	2. 54	·1133	5. 37	·01550			
5. 0	39. 10	4. 54	·1128	10. 10	·01422			
5. 45	38. 10	5. 55	·1134	14. 11	·01215			
5. 54	37. 15		***	15. 32	·01132			
6. 7	37. 30	12. 25	·1134		(†)			
7. 44	36. 45	13. 14	·1129	19. 20	·01544			
8. 5	35. 30	21. 0	·1126	23. 15	·01557			
8. 30	36. 25	22. 44	·1116	23. 59	·01534			
	***		(†)					
13. 0	35. 55							
13. 30	38. 55							
14. 15	35. 50							
16. 22	36. 30							
18. 29	36. 10							
19. 15	36. 55							
20. 10	36. 0							
20. 27	36. 10							
21. 37	35. 30							
22. 43	37. 0							
	(†)							
Feb. 2		Feb. 2		Feb. 2				
	(†)		(†)		(†)			
1. 42	21. 41. 20	1. 34	·1113	1. 53	·01116			

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. 2	° ′ ″	Feb. 2		Feb. 2		Feb. 2	°	°
h m		h m		h m		h m		
2. 23	21. 40. 0	2. 44	·1116	4. 19	·00870	2. 40	41 ·2	41 ·0
3. 17	39. 40	5. 5	·1115	5. 23	·00742	3. 40	42 ·2	42 ·0
4. 45	37. 0	8. 55	·1111	5. 39	·00760	4. 40	43 ·2	42 ·0
6. 13	36. 0	9. 45	·1107	8. 51	·00812	5. 40	43 ·8	42 ·5
8. 25	36. 0	10. 29	·1111	8. 54	·00876	6. 40	44 ·7	43 ·4
9. 20	35. 15	10. 57	·1108	14. 30	·00997	7. 40	45 ·1	43 ·6
9. 44	33. 20		***	17. 36	·01122	8. 40	45 ·0	44 ·0
10. 11	35. 0	12. 22	·1114	20. 54	·01337	9. 40	45 ·7	44 ·5
10. 28	32. 40	15. 20	·1118	23. 59	·01556	10. 40	45 ·7	44 ·5
10. 44	32. 40		(†)			11. 40	46 ·0	44 ·6
11. 15	35. 0	19. 25	·1128			21. 40	39 ·3	40 ·8
	***	20. 40	·1132					
12. 45	35. 10	23. 22	·1117					
19. 50	36. 30		***					
22. 28	35. 30	23. 59	·1117					
	***							
23. 0	35. 50							
	***							
23. 59	39. 0							
Feb. 3		Feb. 3		Feb. 3		Feb. 3		
0. 0	21. 39. 0	1. 40	·1116*	0. 29	·01590	1. 40	39 ·4	40 ·4
1. 8	40. 45	3. 40	·1124*	2. 56	·01643	3. 40	40 ·8	41 ·3
3. 0	39. 30	9. 40	·1120*	3. 45	·01615	9. 40	41 ·1	41 ·3
4. 8	38. 30	21. 46	·1133*	6. 18	·01548	21. 46	36 ·5	38 ·5
6. 44:	35. 45			8. 21	·01464			
12. 43	35. 40			11. 15	·01416			
14. 4	36. 0			16. 0	·01508			
15. 18	36. 15			19. 0	·01635			
	***			22. 34	·01591			
19. 40	36. 20				(†)			
21. 42	34. 0							
22. 26	34. 30							
	(†)							
Feb. 4		Feb. 4		Feb. 4		Feb. 4		
1. 40	21. 39. 28*	1. 40	·1127*	1. 40	·01579*	1. 40	38 ·0	38 ·5
3. 40	38. 36*	3. 40	·1127*	3. 40	·01501*	3. 40	41 ·0	41 ·0
9. 40	35. 39*	9. 40	·1123*	9. 40	·00984*	9. 40	41 ·0	41 ·0
21. 45	33. 46*	21. 45	·1137*	21. 45	·01427*	21. 45	31 ·0	33 ·0
Feb. 5		Feb. 5		Feb. 5		Feb. 5		
	(†)		(†)		(†)	1. 40	34 ·1	34 ·0
1. 40	21. 38. 25*	1. 40	·1131*	1. 40	·01350*	3. 40	37 ·0	36 ·5
3. 40	37. 41*	3. 40	·1135*	3. 40	·01231*	9. 40	41 ·8	45 ·0
5. 30	37. 0	5. 6	·1122	5. 15	·01182	21. 40	43 ·0	43 ·7
6. 47	36. 55	5. 32	·1125	6. 10	·01140			
7. 26	36. 10	7. 54	·1121	7. 7	·00988			
7. 44	36. 45	12. 38	·1125	7. 23	·00984			
8. 19	36. 5	13. 7	·1129	7. 38	·01017			
8. 46	35. 10		***	9. 47	·01097			
13. 45	36. 30	20. 55	·1126	11. 36	·00894			
20. 0	35. 30	21. 10	·1124	20. 54	·00870			
	***	23. 2	·1117	22. 59	·00919			
22. 10	34. 35	23. 59	·1112	23. 48	·00960			
	***							
23. 59	38. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 6	° ′ ″	Feb. 6		Feb. 6		Feb. 6	°	°
h m		h m		h m		h m		
0. 0	21. 38. 0	0. 0	·1112	0. 0	·00970	1. 40	47 ·1	48 ·0
1. 2	39. 50	1. 44	·1101	0. 37	·01001	3. 40	50 ·0	50 ·6
2. 43	40. 0		***		·01047	9. 40	50 ·9	50 ·6
4. 54:	37. 0	4. 46	·1114	3. 52:	·01138	21. 40	47 ·5	47 ·5
7. 15	36. 30	5. 52	·1110	15. 7	·01236			
7. 28	36. 0	7. 10	·1112	18. 49	·01354			
10. 54	35. 35		***	23. 17	·01557			
11. 41	33. 0	14. 30	·1111					
12. 30	35. 50	14. 57	·1112					
12. 45	34. 30	15. 32	·1110					
13. 16	34. 25	16. 45	·1114					
	***	17. 13	·1112					
14. 13	36. 40	17. 46	·1117					
	***	19. 15	·1116					
14. 30	35. 20	19. 54	·1121					
14. 52	36. 0	22. 35	·1116					
15. 4	35. 30	23. 16	·1107					
16. 15	37. 0							
16. 32	36. 0							
	***							
17. 28	37. 50							
17. 43	36. 50							
	***							
22. 13	34. 30							
	***							
23. 45	37. 40							
23. 54	37. 20							
23. 59	37. 25							
Feb. 7		Feb. 7		Feb. 7		Feb. 7		
0. 0	21. 37. 25	0. 54	·1104	0. 0	·01575	1. 40	49 ·0	48 ·5
	***		***	1. 23	·01560	3. 40	50 ·2	49 ·4
2. 31	41. 20	3. 7	·1117	3. 30	·01474	9. 40	48 ·0	48 ·0
2. 52	40. 40	3. 34	·1114	5. 22	·01320	22. 35	43 ·7	44 ·5
	***	4. 14	·1117	9. 40	·01409			
3. 17	41. 35	4. 46	·1114	15. 49	·01640			
	***	5. 17	·1114	19. 23	·01913			
5. 27	39. 10	5. 43	·1106	23. 20	·01934			
	***	6. 7	·1111					
5. 45	39. 55		***					
	***	8. 7	·1118					
6. 39	38. 30	9. 11	·1113					
	***	9. 20	·1114					
7. 10	39. 15	9. 47	·1103					
	***	10. 6	·1108					
8. 0	38. 20	10. 22	·1108					
8. 58	38. 50	10. 30	·1105					
9. 11	38. 0	10. 33	·1111					
9. 45	35. 0	10. 41	·1106					
10. 4	36. 0	10. 52	·1094					
10. 24	35. 0	11. 2	·1112					
10. 39	37. 45	11. 13	·1096					
10. 52	31. 30	11. 26	·1099					
11. 0	36. 5	11. 37	·1098					
11. 29	29. 10	11. 52	·1108					
11. 43	31. 10	12. 3	·1107					
11. 55	30. 5	12. 8	·1111					
12. 24	25. 0	12. 23	·1103					

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

February 3. The trace of the Horizontal Force Magnet was too faint for use.

February 4. The gas pipes were under examination, there were therefore no Photographic Records on this day.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 7		Feb. 7						
h m	° ′ ″	h m		h m		h m	°	°
12. 41	21. 30. 45	12. 35	·1102					
12. 47	30. 5	12. 39	·1106					
13. 27	32. 0	12. 55	·1091					
13. 50	38. 0	13. 10	·1098					
14. 39	34. 0	14. 5	·1106					
14. 43	34. 35	14. 12	·1098					
15. 0	33. 0	14. 17	·1117					
15. 24	38. 30	14. 26	·1113					
16. 11	31. 0	14. 35	·1114					
16. 43	34. 50	14. 46	·1121					
	***	15. 22	·1104					
17. 42	34. 20	15. 32	·1103					
18. 8	36. 30	16. 0	·1114					
	***	16. 10	·1109					
19. 48	36. 50	16. 20	·1100					
20. 7	36. 0	16. 45	·1101					
	***	17. 8	·1108					
22. 14	36. 20		***					
22. 23	37. 55	18. 50	·1114					
	***	19. 13	·1111					
22. 42	37. 35	19. 32	·1114					
23. 2	39. 20		***					
23. 22	38. 35	23. 4	·1114					
23. 56	39. 30	23. 59	·1106					
23. 59	39. 55							
Feb. 8		Feb. 8		Feb. 8		Feb. 8		
0. 0	21. 39. 55	0. 0	·1114	0. 0	·01956	9. 20	44 ·7	45 ·4
0. 5	40. 10	0. 22	·1110	2. 39	·01962	12. 40	44 ·5	46 ·0
0. 26	39. 10	0. 34	·1114	7. 53:	·01829	13. 40	44 ·7	46 ·0
0. 40	40. 5	0. 50	·1112	15. 45	·01804	14. 40	45 ·0	45 ·7
	***	0. 58	·1116	18. 30	·01712	15. 40	45 ·3	45 ·9
2. 30	39. 45	1. 23	·1114	20. 0	·01633	16. 40	45 ·7	46 ·0
2. 45	41. 55	1. 27	·1112	23. 59	·01520	17. 40	46 ·2	46 ·5
2. 58	40. 40	2. 10	·1112			18. 40	47 ·5	47 ·5
	***	3. 27	1106			19. 40	47 ·5	47 ·5
3. 52	40. 20	4. 7	·1116			20. 40	47 ·6	47 ·7
4. 27	38. 30	4. 15	·1112			21. 40	47 ·2	47 ·4
	***	5. 10	·1113			22. 40	47 ·3	47 ·6
6. 8	38. 45	6. 6	·1116			23. 40	47 ·8	47 ·8
6. 42	35. 50	6. 24	·1119					
6. 52	35. 50	6. 45	·1118					
7. 2	33. 40	6. 54	·1122					
7. 19	33. 20		***					
7. 29	36. 20	7. 14	·1126					
7. 45	33. 35	7. 34	·1112					
8. 0	36. 50	7. 45	·1118					
	***	8. 9	·1115					
8. 41	36. 5		***					
8. 56	38. 0	8. 25	·1117					
9. 30	35. 30	8. 38	·1122					
9. 57	34. 25	9. 45	·1111					
10. 10	34. 30	10. 8	·1101					
10. 33	22. 0	10. 30	·1126					
10. 48	27. 0	10. 44	·1121					
11. 18	31. 30	10. 52	·1123					
11. 36	31. 30	11. 24	·1111					
11. 56	34. 5	11. 50	·1114					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 8		Feb. 8						
h m	° ′ ″	h m		h m		h m	°	°
12. 3	21. 33. 45	12. 2	·1112					
12. 18	35. 30	12. 30	·1121					
12. 31	33. 5	12. 58	·1114					
12. 57	34. 0	13. 25	·1118					
13. 11	33. 0	13. 40	·1111					
13. 28	34. 50		***					
13. 44	34. 0	13. 57	·1113					
13. 59	36. 0	14. 5	·1111					
14. 39	33. 10	14. 42	·1109					
14. 57	36. 0	15. 8	·1107					
15. 16	35. 30		***					
15. 29	34. 0	15. 36	·1102					
15. 41	35. 0		***					
15. 54	38. 25	16. 43	·1111					
16. 24	36. 20		***					
16. 41	36. 30	18. 10	·1109					
17. 11	37. 25		***					
17. 26	34. 25	18. 26	·1112					
17. 42	37. 0		***					
18. 15	36. 0	19. 37	·1110					
	***		***					
19. 12	37. 20	19. 41	·1104					
	***		***					
19. 58	36. 30	19. 46	·1111					
	***		***					
20. 30	36. 40	20. 15	·1113					
20. 42	35. 30		***					
	***	20. 53	·1104					
21. 7	37. 10		***					
	***	21. 0	·1111					
22. 18	37. 50		***					
	***	21. 10	·1108					
22. 36	38. 50		***					
22. 53	38. 20	22. 16	·1101					
	***		***					
23. 39	38. 30	23. 59	·1102					
23. 59	41. 20							
Feb. 9		Feb. 9		Feb. 9		Feb. 9		
0. 0	21. 41. 20	1. 10	·1101	1. 32	·01432	0. 40	48 ·7	48 ·5
0. 23	40. 0	1. 40	·1102	3. 39	·01143	1. 40	49 ·8	49 ·5
1. 0	39. 30	1. 48	·1104	4. 52	·01174	2. 40	51 ·0	50 ·2
1. 32	41. 35	2. 30	·1094	4. 55	·01267	3. 40	51 ·8	51 ·3
1. 57	41. 0	3. 52	·1104	8. 18	·01442	4. 40	52 ·8	51 ·4
2. 46	41. 40		***	10. 37	·01476	5. 40	53 ·2	51 ·7
3. 28	39. 35	4. 5	·1100	14. 30	·01436	6. 40	53 ·2	51 ·4
4. 25	40. 20	5. 4	·1102	17. 52	·01575	7. 40	53 ·4	51 ·4
5. 9	38. 0	5. 14	·1106	21. 0	·01594	8. 40	52 ·7	51 ·2
5. 40	37. 10	5. 22	·1103	23. 53	·01670	9. 40	52 ·5	52 ·0
5. 57	37. 30	5. 35	·1105			10. 40	52 ·6	51 ·8
6. 52	36. 5	6. 6	·1100			11. 40	52 ·3	51 ·5
	***	6. 48	·1104			21. 40	48 ·9	48 ·9
8. 37	34. 35	7. 10	·1101					
9. 18	35. 20	8. 22	·1104					
	***	9. 4	·1102					
11. 6	34. 20	9. 40	·1102					
11. 15	33. 0	10. 2	·1101					
11. 45	34. 0	10. 9	·1104					
12. 0	33. 40	10. 34	·1101					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 9		Feb. 9						
h m	° ′ ″	h m		h m		h m	°	°
12. 13	21. 34. 15	10. 46	·1104					
13. 0	34. 5	11. 52	·1103					
13. 12	35. 25	12. 24	·1107					
13. 35	35. 20	13. 5	·1102					
13. 47	37. 30	13. 45	·1115					
14. 13	35. 0	13. 55	·1111					
14. 28	37. 0	14. 22	·1117					
14. 44	36. 5	14. 38	·1113					
16. 12	36. 0	14. 54	·1115					
16. 30	36. 30	15. 10	·1111					
16. 43	35. 25	19. 38	·1124					
17. 2	36. 30	20. 18	·1121					
17. 15	35. 30	21. 9	·1118					
17. 22	36. 0	21. 15	·1122					
	***	22. 0	·1114					
21. 0	35. 30	23. 20	·1108					
	***	23. 59	·1109					
22. 4	34. 30							
	***							
22. 49	35. 0							
	***							
23. 46	37. 10							
23. 59	37. 30							
Feb. 10		Feb. 10		Feb. 10		Feb. 10		
0. 0	21. 37. 30	0. 0	·1109	0. 3	·01680	1. 40	51 ·1	50 ·4
	***	0. 10	·1106	2. 19	·01594	3. 40	52 ·5	51 ·7
0. 34	39. 45	0. 31	·1113	4. 52	·01396	9. 40	53 ·0	54 ·0
0. 43	38. 40	2. 44	·1086	6. 6	·01240	21. 40	45 ·7	46 ·2
1. 0	42. 5	3. 40	·1087	7. 10	·01200			
	***	4. 6	·1097	7. 24	·01237			
1. 37	42. 35	4. 28	·1094	15. 22	·01630			
1. 42	41. 40	4. 37	·1081	18. 53	·02017			
1. 53	39. 0	5. 12	·1104	19. 50	·01977			
	***	6. 42	·1102	23. 46	·01980			
2. 45	47. 0	8. 27	·1094					
2. 58	46. 35	8. 46	·1097					
3. 7	44. 30	15. 10	·1116					
3. 19	44. 40	15. 46	·1114					
3. 52	40. 50	19. 42	·1123					
4. 6	41. 40	21. 24	·1121					
4. 15	41. 20	23. 22	·1098					
4. 29	41. 55	23. 59	·1096					
4. 43	34. 20							
5. 13	36. 20							
5. 49	36. 25							
6. 42	35. 35							
7. 12	36. 30							
8. 11	35. 20							
8. 41	32. 5							
8. 58	33. 10							
9. 22	29. 40							
9. 57	33. 50							
11. 22	34. 25							
	***							
13. 31	37. 30							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 10								
h m	° ′ ″	h m		h m		h m	°	°
14. 15	21. 36. 45							
14. 47	38. 30							
	***							
16. 45	37. 0							
17. 30	37. 30							
	***							
17. 45	36. 30							
	***							
17. 57	37. 0							
	***							
18. 11	36. 30							
	***							
18. 27	37. 10							
	***							
19. 48	36. 5							
20. 15	36. 15							
22. 3	32. 50							
	***							
22. 45	35. 0							
	***							
23. 27	35. 40							
	***							
23. 59	37. 30							
Feb. 11		Feb. 11		Feb. 11		Feb. 11		
0. 0	21. 37. 30	0. 0	·1096	0. 50	·01948	1. 40	49 ·0	49 ·0
	***		***	1. 21	·01936	3. 40	52 ·2	52 ·7
1. 9	39. 35	1. 48	·1098	2. 47	·01780	9. 40	53 ·6	52 ·7
	***		***	6. 6	·01127	21. 40	46 ·0	47 ·0
3. 16	39. 20	5. 34	·1116	6. 40	·01143			
5. 15	36. 10	9. 52	·1113	6. 46	·01213			
11. 0	35. 30	10. 8	·1116	7. 50	·01329			
11. 15	34. 40		***	14. 0	·01388			
12. 2	35. 0	11. 9	·1115	18. 16	·01623			
12. 17	33. 50	12. 20	·1118	22. 9	·01980			
12. 44	34. 30	12. 46	·1116	22. 19	·01940			
12. 57	33. 55	13. 0	·1123	23. 59	·01965			
13. 1	34. 0	14. 18	·1118					
13. 22	32. 45	15. 10	·1117					
14. 23	33. 40	15. 22	·1113					
14. 39	34. 30	15. 42	·1118					
14. 52	34. 10	16. 5	·1117					
15. 10	36. 0	18. 25	·1127					
15. 22	35. 10	18. 40	·1126					
15. 42	36. 50	20. 8	·1129					
	***	20. 50	·1128					
20. 10	36. 10	22. 10	·1120					
21. 39	34. 10		***					
	***	23. 0	·1104					
22. 31	34. 50	23. 59	·1106					
	***							
22. 52	36. 30							
	***							
23. 10	36. 50							
	***							
23. 59	39. 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. 12		Feb. 12		Feb. 12		Feb. 12		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 39. 30	0. 16	·1105	0. 10	·01966	1. 40	47 ·8	47 ·6
	***	0. 40	·1102	1. 8	·01997	3. 40	50 ·0	50 ·0
1. 28	41. 40		***	2. 21	·01995	10. 15	50 ·8	51 ·6
	***	5. 5	·1119	3. 23	·01908	21. 40	42 ·2	43 ·0
2. 38	41. 0	5. 39	·1116	7. 4	·01460			
	***	6. 26	·1112		·01522			
3. 52	38. 30	9. 27	·1113	8. 7	·01532			
4. 29	36. 40	9. 39	·1119	9. 30:	·01576			
5. 44	34. 15	10. 19	·1112	15. 22	·02015			
6. 18	34. 40	10. 44	·1124		·01977			
6. 45	34. 0	11. 5	·1116	23. 20	·01920			
7. 18	34. 35	19. 20	·1133					
	***	21. 22	·1131					
9. 30	34. 0	23. 59	·1115					
9. 42	32. 25							
10. 10	32. 20							
10. 14	29. 25							
10. 22	29. 15							
10. 52	33. 40							
11. 10	33. 20							
	***							
15. 36	36. 10							
	***							
18. 28	35. 50							
	***							
20. 7	35. 30							
	***							
22. 30	33. 20							
	***							
22. 52	34. 30							
	***							
23. 59	38. 0							
Feb. 13		Feb. 13		Feb. 13		Feb. 13		
0. 0	21. 38. 0	0. 0	·1115	0. 0	·01933	1. 40	45 ·0	45 ·5
	***	1. 14	·1111	1. 4	·01930	3. 40	48 ·2	48 ·2
1. 38	41. 55	3. 30	·1117	2. 8	·01872	9. 40	51 ·5	50 ·7
1. 46	40. 20	4. 40	·1108	3. 21	·01749	21. 40	43 ·4	44 ·2
	***	7. 2	·1114	7. 15	·01093			
3. 0	38. 45	7. 15	·1108	8. 10	·00992			
	***	7. 50	·1114	9. 48	·00949			
3. 42	40. 0	13. 17	·1117	14. 15	·01036			
5. 9	36. 15	20. 45	·1135	16. 0	·01140			
5. 41	37. 10		***	21. 21	·01643			
7. 2	36. 0	23. 59	·1118	23. 23	·01766			
7. 40	31. 30							
8. 16	35. 0							
15. 9	38. 15							
15. 24	37. 30							
	***							
17. 27	37. 30							
20. 22	36. 35							
22. 15	34. 35							
23. 41	36. 40							
23. 59	37. 50							
Feb. 14		Feb. 14		Feb. 14		Feb. 14		
0. 0	21. 37. 50	0. 0	·1118	0. 0	·01790	1. 40	45 ·3	46 ·0
	***		***	2. 20	·01756	3. 40	48 ·2	48 ·2

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 14		Feb. 14		Feb. 14		Feb. 14		
h m	° ′ ″	h m		h m		h m	°	°
1. 20	21. 39. 50	2. 2	·1111	3. 53	·01630	9. 40	49 ·5	50 ·0
1. 29	41. 30		***	5. 39	·01294	22. 30	42 ·7	44 ·2
1. 40	40. 0	4. 15	·1129	7. 10	·01015			
1. 52	40. 30		***	8. 25	·00983			
2. 15	39. 30	6. 3	·1117	9. 26	·00975			
2. 46	40. 30	8. 36	·1123	9. 43	·01040			
3. 39	38. 20		***	14. 0	·01325			
3. 59	38. 20	8. 55	·1117	18. 25	·01735			
4. 57	37. 0	9. 23	·1122	21. 49	·01917			
5. 39	37. 30	10. 18	·1119	23. 6	·01930			
6. 16	36. 30		***					
6. 32	36. 35	17. 30	·1135					
13. 45	37. 30		***					
14. 12	37. 0	18. 13	·1134					
15. 40	37. 30		***					
17. 41	36. 40	19. 26	·1139					
18. 0	38. 30		***					
	***	20. 35	·1135					
19. 5	36. 20		***					
	***	22. 13	·1125					
20. 36	36. 20		***					
21. 5	35. 15	23. 59	·1117					
	***							
21. 53	35. 25							
	***							
23. 40	38. 30							
	***							
23. 59	37. 40							
Feb. 15		Feb. 15		Feb. 15		Feb. 15		
0. 0	21. 37. 40	0. 0	·1117	0. 0	·01933	11. 42	44 ·7	45 ·2
	***		***	3. 0	·01922	12. 40	44 ·0	45 ·3
1. 3	39. 30	3. 34	·1129	4. 37	·01857	13. 40	44 ·0	45 ·3
1. 45	41. 20	7. 42	·1127	7. 19	·01713	14. 40	44 ·3	45 ·5
3. 26	39. 30	7. 57	·1125	10. 0	·01630	15. 40	44 ·6	45 ·4
5. 9	37. 30	8. 7	·1128	12. 49	·01678	16. 40	44 ·7	45 ·4
6. 15	37. 25	8. 52	·1122	15. 30	·01760	17. 40	45 ·0	45 ·5
9. 26	35. 40	10. 42	·1131	20. 10	·01810	18. 40	45 ·1	45 ·5
10. 15	36. 30	11. 7	·1128	23. 59	·01736	19. 40	45 ·3	45 ·5
10. 41	34. 30	11. 37	·1130			20. 40	45 ·4	45 ·4
11. 9	36. 30	13. 22	·1125			21. 40	45 ·3	45 ·1
14. 10	36. 20	13. 36	·1127			22. 40	45 ·8	45 ·2
	***	14. 8	·1125			23. 40	46 ·8	46 ·4
14. 51	37. 55		***					
15. 2	37. 0	15. 9	·1129					
15. 15	37. 30	15. 24	·1126					
15. 32	36. 20	18. 22	·1132					
15. 52	36. 30		***					
16. 20	36. 0	18. 40	·1128					
	(†)		***					
17. 40	38. 0	20. 8	·1128					
	***		***					
18. 24	35. 25	21. 15	·1130					
18. 36	35. 45		***					
18. 52	34. 40	21. 29	·1136					
20. 1	35. 50		***					
20. 15	34. 0	22. 42	·1122					
	***		***					

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	°	°
21. 11	21. 34. 30	23. 10	·1123					
21. 27	33. 40							
	***							
21. 43	35. 40							
	***							
22. 16	34. 30							
	***							
23. 12	36. 30							
Feb. 16		Feb. 16		Feb. 16		Feb. 16		
	(†)		(†)		(†)	0. 40	48 ·1	47 ·8
1. 32	21. 44. 30	1. 36	·1098	1. 45	·01583	1. 40	49 ·7	49 ·3
1. 46	44. 50		***	2. 51	·01420	2. 40	51 ·1	51 ·3
2. 0	42. 20	2. 7	·1089	4. 6	·01143	3. 40	53 ·5	53 ·5
2. 6	43. 20		***		·01181	4. 40	55 ·0	55 ·0
2. 15	41. 50	2. 58	·1101	4. 52	·01195	5. 40	56 ·0	56 ·2
3. 9	42. 35		***		·01702	6. 40	57 ·3	56 ·2
4. 17	38. 40	3. 40	·1101	6. 0	·01500	7. 40	57 ·5	56 ·4
4. 43	38. 50		***	6. 17	·01494	8. 40	57 ·7	56 ·3
6. 5	36. 20	4. 27	·1106	6. 45	·01520	9. 40	57 ·7	56 ·0
7. 12	35. 30		***	7. 0	·01506	10. 40	57 ·3	56 ·0
7. 45	36. 30	6. 20	·1106	7. 8	·01537	11. 40	57 ·0	56 ·0
9. 12	34. 40		***	10. 3	·01702	21. 40	49 ·2	49 ·8
9. 20	35. 30	7. 59	·1098	10. 22	·01744			
10. 32	33. 50		***	14. 54	·01977			
11. 13	23. 20	8. 24	·1102	16. 30	·02042			
11. 49	29. 15		***	19. 11	·02078			
12. 2	28. 20	8. 52	·1098	21. 50	·02060			
13. 10	33. 30		***		·01944			
	***	10. 34	·1098	23. 21	·02028			
14. 5	35. 0		***					
	***	11. 24	·1119					
14. 43	34. 0		***					
14. 57	36. 0	11. 35	·1108					
	***		***					
15. 15	36. 30	11. 46	·1111					
15. 31	34. 50		***					
16. 0	36. 40	13. 0	·1095					
16. 13	36. 20		***					
	***	20. 56	·1127					
16. 45	38. 30		***					
	***	23. 12	·1117					
17. 12	35. 30							
	***							
18. 10	34. 45							
18. 18	36. 0							
18. 32	35. 30							
18. 45	32. 40							
19. 2	36. 0							
	***							
19. 45	35. 10							
	***							
19. 52	36. 30							
	***							
20. 11	35. 10							
	***							
20. 26	36. 0							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 16								
h m	° ′ ″	h m		h m		h m	°	°
20. 46	21. 35. 0							
	***							
22. 0	38. 30							
22. 35	38. 45							
	***							
22. 53	38. 0							
	***							
23. 59	40. 0							
Feb. 17		Feb. 17		Feb. 17		Feb. 17		
0. 0	21. 40. 0	0. 0	·1107	0. 0	·02040	1. 40	51 ·5	51 ·8
0. 10	39. 15		***	1. 24	·02037	3. 40	53 ·8	53 ·8
	***	3. 37	·1095	2. 30	·01962	9. 40	56 ·5	56 ·2
1. 10	40. 0		***	3. 51	·01840	21. 40	50 ·2	51 ·0
1. 21	41. 30	3. 46	·1103	6. 20	·01454			
	***		***	7. 50	·01220			
1. 48	40. 30	5. 26	·1106	8. 54	·01141			
2. 15	42. 0		***	9. 53	·01128			
	***	6. 0	·1097	10. 3	·01177			
2. 42	39. 45		***	12. 0	·01190			
3. 0	40. 30	6. 25	·1114	14. 8	·01317			
3. 31	37. 35		***	20. 8	·01778			
	***	6. 43	·1116	23. 49	·01963			
3. 55	38. 40		***					
	***	7. 9	·1107					
4. 47	37. 20		***					
5. 20	37. 30	7. 25	·1110					
5. 44	35. 30		***					
5. 52	35. 0	9. 42	·1097					
6. 22	26. 10		***					
6. 51	34. 25	10. 5	·1103					
7. 11	35. 0		***					
7. 38	36. 30	10. 45	·1107					
8. 40	35. 30		***					
8. 54	34. 20	11. 4	·1103					
9. 19	34. 25		***					
9. 42	31. 0	11. 44	·1117					
9. 48	31. 10		***					
10. 13	35. 30	11. 58	·1112					
10. 40	34. 20		***					
10. 54	34. 30	13. 36	·1106					
11. 7	33. 45		***					
11. 20	34. 50	20. 39	·1125					
11. 39	38. 0		***					
12. 7	34. 40	21. 35	·1118					
	***		(†)					
12. 32	36. 0							
	***							
13. 40	35. 30							
14. 22	36. 30							
14. 40	37. 40							
15. 2	36. 30							
15. 22	37. 0							
15. 48	36. 20							
	***							
19. 25	36. 40							
	***							
20. 25	35. 0							

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

February 15. The times, both for Declination and Horizontal Force, are under some uncertainty.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 17	° ′ ″	h m		h m		h m	°	°
21. 0	21. 34. 35							
21. 10	35. 10							
21. 29	34. 30 (†)							
Feb. 18		Feb. 18		Feb. 18		Feb. 18		
0. 0	21. 40. 20	0. 0	·1109	0. 0	·01977	1. 40	52 ·2	52 ·2
0. 34	41. 30		***	2. 15	·01905	3. 40	54 ·8	54 ·4
	***	1. 42	·1108	3. 33	·01764	9. 40	55 ·7	55 ·3
1. 32	40. 0		***	7. 0	·01330	21. 40	50 ·5	52 ·0
1. 45	40. 30	6. 8	·1101	8. 21	·01255			
2. 17	39. 20		***	10. 50	·01242			
2. 32	39. 50	6. 35	·1106	14. 30	·01337			
2. 42	38. 35		***	21. 49	·01882			
3. 1	39. 0	7. 55	·1106	23. 59	·01996			
	***		***					
5. 42	36. 0	8. 40	·1103					
6. 36	37. 30		***					
7. 15	36. 0	10. 48	·1107					
7. 43	36. 15		***					
8. 4	35. 30	12. 36	·1106					
8. 21	36. 35		***					
9. 10	35. 0	12. 52	·1121					
9. 18	36. 0		***					
10. 36	36. 30	13. 31	·1116					
12. 35	34. 35		***					
12. 48	37. 30	14. 17	·1121					
13. 10	34. 30		***					
13. 44	37. 0	14. 42	·1108					
14. 43	32. 40		***					
14. 55	33. 55	15. 0	·1111					
15. 13	31. 50		***					
15. 20	32. 20	15. 58	·1104					
15. 41	31. 30		***					
15. 58	34. 10	17. 37	·1112					
16. 10	33. 35		***					
16. 21	36. 10	20. 4	·1122					
16. 45	33. 5		***					
17. 28	36. 50	21. 0	·1118					
17. 43	34. 45		***					
18. 5	36. 10	23. 59	·1097					
18. 20	35. 30							
18. 30	36. 15							
19. 4	36. 15							
	***							
21. 20	33. 30							
	***							
23. 59	39. 0							
Feb. 19		Feb. 19		Feb. 19		Feb. 19		
0. 0	21. 39. 0	0. 0	·1097	1. 40	·01960*	1. 40	52 ·0	52 ·0
	***		***	2. 5	·01940	3. 40	53 ·2	53 ·3
1. 4	42. 0	0. 21	·1101	6. 10	·01746	9. 40	52 ·5	52 ·5
1. 14	40. 50		***	8. 53	·01682	21. 40	47 ·3	48 ·4
1. 58	43. 30	0. 40	·1094	11. 6	·01696			
2. 5	42. 20		***	16. 54	{·02058			
2. 40	42. 50	1. 2	·1097		{·02000			
3. 30	38. 50		***	20. 45	·02020			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 19	° ′ ″	Feb. 19		Feb. 19		h m	°	°
h m		h m		h m				
5. 16	21. 37. 30	1. 13	·1089	20. 48	·01976			
5. 44	36. 40		***	23. 37	·01936			
6. 14	30. 20	4. 30	·1103					
6. 40	29. 10		***					
6. 58	32. 20	4. 54	·1101					
7. 15	29. 20		***					
7. 40	30. 20	5. 39	·1104					
7. 51	32. 40	6. 9	·1087					
8. 6	32. 0	6. 43	·1103					
8. 24	33. 35	7. 0	·1090					
8. 45	34. 40		***					
9. 0	34. 0	8. 7	·1106					
9. 10	35. 10		***					
10. 10	37. 0	8. 14	·1104					
10. 46	36. 10		***					
11. 0	36. 30	8. 39	·1096					
11. 17	36. 0		***					
11. 32	36. 50	9. 4	·1102					
12. 2	35. 20		***					
12. 19	35. 30	11. 52	·1103					
12. 40	38. 55		***					
13. 7	37. 0	12. 9	·1108					
13. 28	38. 0		***					
13. 47	37. 20	12. 32	·1111					
14. 6	36. 30		***					
14. 57	37. 0	13. 31	·1126					
15. 14	36. 20		***					
15. 28	37. 30	14. 12	·1116					
15. 32	36. 30		***					
15. 45	37. 0	15. 17	·1111					
16. 6	35. 30		***					
16. 25	37. 30	18. 27	·1115					
16. 32	37. 10		***					
16. 56	38. 15	19. 30	·1122					
17. 18	37. 10		***					
18. 4	38. 0	20. 24	·1120					
18. 15	36. 55		***					
18. 40	37. 50	20. 45	·1124					
19. 17	36. 5		***					
19. 42	37. 0	21. 36	·1111					
	***		***					
20. 9	36. 0	23. 59	·1102					
20. 20	37. 0							
21. 7	36. 30							
	***							
22. 40	38. 30							
22. 45	38. 10							
23. 5	40. 20							
23. 47	39. 25							
23. 59	40. 15							
Feb. 20		Feb. 20		Feb. 20		Feb. 20		
0. 0	21. 40. 15	0. 0	·1102	0. 0	·01910	1. 40	49 ·8	50 ·2
0. 12	40. 30		***	1. 7	·01882	3. 40	52 ·2	52 ·3
	***	2. 10	·1108	2. 56	·01779	9. 40	54 ·0	54 ·0
0. 47:	39. 30		***	4. 30	·01590	21. 40	46 ·3	47 ·2
	***	2. 39	·1104	6. 35	·01257			
1. 32	41. 0		***	8. 7	·01093			

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. 20		Feb. 20		Feb. 20				
h m	° ′ ″	h m		h m		h m	°	°
1. 52	21. 40. 0	4. 27	·1115	9. 36	·01044			
2. 16	40. 25		***					
2. 41	39. 10	4. 52	·1105	21. 7	·01980			
2. 54	39. 30		***		·01926			
4. 9	37. 10	6. 9	·1116	23. 10	·01978			
4. 28	37. 30		***		·01897			
4. 57	36. 20	12. 54	·1114	23. 51	·01867			
5. 28	35. 25		***					
6. 10	36. 30	15. 52	·1118					
8. 38	36. 0		***					
11. 50	36. 50	19. 8	·1129					
12. 9	36. 0		***					
14. 0	37. 0	23. 28	·1101					
14. 35	37. 50		***					
15. 10	37. 15	23. 59	·1103					
15. 54	39. 0							
16. 32	37. 0							
16. 44	37. 40							
16. 58	37. 0							
17. 1	37. 20							
17. 16	36. 45							
18. 25	37. 5							
18. 44	36. 30							
19. 15	36. 30							
20. 18	36. 0							
21. 7	34. 30							
	***							
22. 47	36. 30							
	***							
23. 35	39. 0							
Feb. 21		Feb. 21		Feb. 21		Feb. 21		
0. 7	21. 39. 40	0. 7	·1101	0. 6	·01860	1. 40	48 ·8	48 ·7
0. 32	38. 40	3. 0	·1113	2. 49	·01624	3. 40	51 ·2	51 ·6
3. 10	38. 50	5. 45	·1108	4. 24	·01441	9. 40	52 ·8	53 ·0
4. 52	36. 35	11. 22	·1111	6. 20	·01160	22. 10	47 ·8	48 ·3
6. 33	35. 30	11. 40	·1119	8. 17:	·00982			
8. 54	35. 25	11. 57	·1112	14. 35	·01068			
11. 25	36. 25	14. 30	·1116	17. 0	·01175			
11. 43	32. 45	15. 32	·1112	21. 30	·01520			
12. 18	36. 30	19. 50	·1122	22. 31	·01574			
13. 12	35. 50	23. 59	·1110		(†)			
13. 39	36. 50							
15. 58	37. 30							
17. 0	36. 30							
17. 42	37. 0							
19. 44	36. 0							
20. 52	36. 10							
21. 2	35. 15							
21. 41	34. 35							
22. 15	36. 0							
22. 30	36. 10							
22. 57	37. 10							
23. 59	41. 30							
Feb. 22		Feb. 22		Feb. 22		Feb. 22		
0. 0	21. 41. 30	0. 0	·1110	0. 0	·01620	8. 0	52 ·8	53 ·0
0. 30	42. 0	0. 50	·1102	0. 29	·01608	12. 40	50 ·8	51 ·3
0. 52	41. 20	4. 43	·1112		·01540	13. 40	50 ·6	51 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 22		Feb. 22		Feb. 22		Feb. 22		
h m	° ′ ″	h m		h m		h m	°	°
1. 5	21. 42. 20	6. 33	·1103	1. 56	·01480	14. 40	50 ·5	50 ·8
2. 53:	41. 20	7. 35	·1110	3. 24	·01367	15. 40	50 ·5	50 ·8
5. 21	36. 0	9. 15	·1108	6. 22	·00978	16. 40	50 ·5	50 ·7
6. 17	36. 40	12. 5	·1112		·01080	17. 40	50 ·8	50 ·8
6. 35	36. 10	15. 26	·1108	10. 49	·01020	18. 40	50 ·8	50 ·8
12. 21	36. 45	19. 18	·1115	13. 24	·01136	19. 40	50 ·9	50 ·8
13. 24	36. 0	20. 42	·1112	16. 50	·01288	20. 40	51 ·0	50 ·9
13. 44	36. 30	23. 59	·1093	21. 50	·01325	21. 40	51 ·0	51 ·2
14. 24	35. 50			23. 59	·01337	22. 40	51 ·1	51 ·2
15. 21	37. 5					23. 40	51 ·9	51 ·5
15. 34	36. 30							
	***							
18. 20	36. 10							
20. 6	34. 35							
20. 30	33. 40							
21. 32	32. 50							
22. 27	33. 30							
23. 59	39. 35							
Feb. 23		Feb. 23		Feb. 23		Feb. 23		
0. 0	21. 39. 35	0. 0	·1093	0. 52	·01292	0. 40	52 ·2	52 ·0
0. 25	39. 30	1. 0	·1097	2. 38	·01140	1. 40	53 ·0	53 ·0
0. 57	41. 0	1. 43	·1098		·01298	2. 40	54 ·8	54 ·0
3. 0	39. 20	3. 52	·1103	4. 45	·01224	3. 40	56 ·0	55 ·5
3. 36	39. 15	4. 47	·1101	6. 51	·01217	4. 40	57 ·0	56 ·4
5. 10	36. 25	5. 40	·1102	9. 49	·01257	5. 40	58 ·0	57 ·0
8. 1	33. 30	7. 2	·1099	14. 52	·01734	6. 40	58 ·2	57 ·3
9. 40	34. 40	7. 52	·1106	17. 26	·02036	7. 40	58 ·5	57 ·5
11. 12	34. 40		***	21. 48	·02013	8. 40	58 ·0	57 ·1
15. 24	36. 35	12. 20	·1113	23. 54	·01985	9. 40	58 ·0	57 ·0
15. 42	36. 15	13. 30	·1111			10. 40	57 ·5	57 ·0
16. 13	37. 30	19. 21	·1132			11. 40	57 ·2	56 ·8
16. 27	37. 10	20. 52	·1126			21. 40	48 ·2	49 ·2
16. 35	37. 30	22. 12	·1114					
16. 59	36. 0	23. 59	·1113					
	***							
19. 35	35. 0							
	***							
20. 54	34. 0							
21. 54	33. 50							
23. 34	38. 35							
23. 59	39. 15							
Feb. 24		Feb. 24		Feb. 24		Feb. 24		
0. 0	21. 39. 15	0. 0	·1113	0. 0	·01996	1. 40	49 ·5	50 ·0
1. 30	41. 25		***	2. 6	·01920	3. 40	51 ·8	52 ·0
2. 1	41. 0	3. 15	·1117	4. 23	·01695	9. 40	54 ·1	54 ·0
2. 24	41. 20		***	7. 23	·01262	21. 40	43 ·8	45 ·0
5. 0	36. 30	10. 25	·1112	8. 30	·01164			
7. 6	35. 55		***	10. 19	·01127			
9. 49	35. 35	10. 38	·1116	13. 49	·01370			
10. 13	33. 40	10. 57	·1113	18. 23	·01967			
10. 40	35. 0	11. 10	·1118	21. 36	·01925			
10. 54	33. 35	11. 22	·1121		·01840			
11. 29	33. 30	12. 23	·1113	22. 0	·01857			
11. 52	31. 15	12. 37	·1116	23. 59	·01846			
	***		***					
13. 26	36. 15	13. 13	·1114					
	***		***					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 24		Feb. 24						
h m	° ′ ″	h m		h m		h m	°	°
13. 50	21. 36. 10	19. 6	·1131					
	***	21. 54	·1128					
14. 21	37. 30	23. 59	·1122					
14. 52	36. 35							
15. 13	37. 35							
17. 44	37. 45							
	***							
20. 45	36. 20							
22. 15	36. 15							
23. 59	38. 35							
Feb. 25		Feb. 25		Feb. 25		Feb. 25		
0. 0	21. 38. 35	0. 0	·1122	0. 27	·01870	1. 40	45 ·0	45 ·5
1. 24	40. 20		***	2. 20	·01834	3. 40	47 ·0	47 ·0
1. 49	39. 30	0. 38	·1124	8. 42	·01413	9. 40	48 ·0	48 ·5
2. 16	40. 5		***	11. 15	·01330	21. 40	44 ·0	45 ·2
3. 8	39. 0	4. 6	·1129	15. 0	·01317			
5. 21	36. 15		***	17. 11	·01376			
6. 19	35. 25	5. 58	·1126	19. 10	·01470			
7. 30	36. 30		***	22. 16	{·01676			
8. 15	36. 15	19. 35	·1134		{·01600			
8. 27	35. 20		***	23. 5	·01628			
9. 2	35. 40	22. 15	·1123	23. 59	·01620			
9. 43	34. 50	23. 56	·1119					
10. 0	36. 0							
17. 25	37. 30							
20. 30	36. 30							
22. 1	36. 30							
23. 59	39. 30							
Feb. 26		Feb. 26		Feb. 26		Feb. 26		
	(†)		(†)	0. 37	·01571	1. 40	46 ·2	47 ·2
1. 24	21. 41. 30	1. 22	·1130	2. 0	·01526	3. 40	49 ·5	50 ·2
1. 44	41. 30		***	2. 52	·01450	9. 50	50 ·0	51 ·0
1. 54	41. 0	3. 54	·1118	4. 18	·01217	21. 40	43 ·3	44 ·3
	***		***	5. 34	{·00965			
3. 0	40. 10	6. 45	·1126		{·00985			
3. 12	40. 50		***	8. 40	·00936			
3. 47	38. 50	8. 42	·1114	9. 23	·00954			
	***		***	9. 54	·01017			
4. 45	38. 5	8. 52	·1126	11. 50	·01120			
5. 42	38. 15		***	12. 28	·01180			
5. 51	39. 30	9. 3	·1124	12. 40	·01180			
	***		***	19. 31	·01933			
6. 54	39. 50	9. 24	·1092	20. 6	·01885			
7. 0	39. 0		***	23. 48	·01864			
7. 15	39. 45	9. 44	·1106					
7. 42	39. 50		***					
8. 13	39. 10	10. 23	·1099					
8. 31	39. 30		***					
9. 5	28. 0	11. 0	·1111					
9. 12	28. 45		***					
9. 28	26. 0	11. 14	·1108					
9. 46	29. 55		***					
10. 8	30. 0	11. 34	·1103					
10. 47	33. 45		***					
11. 17	29. 25	11. 58	·1101					
11. 28	30. 25		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 26		Feb. 26						
h m	° ′ ″	h m		h m		h m	°	°
11. 42	21. 29. 40	12. 13	·1116					
12. 14	31. 40		***					
12. 46	20. 30	13. 2	·1097					
13. 52	30. 0		***					
14. 10	29. 40	13. 30	·1091					
14. 26	32. 45		***					
15. 1	38. 50	13. 50	·1103					
15. 13	37. 30		***					
	***	14. 39	·1106					
16. 22	40. 25		***					
16. 41	38. 20	15. 6	·1120					
16. 54	39. 30		***					
	***	15. 27	·1115					
19. 10	39. 10		***					
19. 53	39. 30	18. 42	·1125					
20. 25	37. 0		***					
20. 32	37. 30	20. 30	·1125					
20. 44	37. 0		***					
20. 48	37. 30	23. 0	·1103					
21. 10	36. 25		***					
21. 30	38. 50	23. 43	·1114					
21. 43	38. 50		***					
	***	23. 59	·1111					
22. 30	40. 35							
	***							
23. 59	45. 0							
Feb. 27		Feb. 27		Feb. 27		Feb. 27		
0. 0	21. 45. 0	0. 0	·1111	0. 0	·01916	1. 40	46 ·0	46 ·4
0. 45	42. 40		***	2. 52	·01698	3. 40	48 ·2	48 ·2
0. 52	44. 20	1. 39	·1129	4. 24	·01532	9. 40	50 ·0	50 ·0
1. 2	43. 0		***	6. 37	·01244	21. 40	47 ·0	47 ·6
1. 13	44. 0	2. 25	·1112	8. 0	·01137			
1. 20	43. 20		***	10. 10	·01076			
1. 44	46. 30	3. 35	·1122	17. 4	·01212			
1. 53	46. 0		***	22. 8	·01334			
2. 10	46. 30	4. 39	·1123	23. 49	·01286			
2. 21	45. 0		***					
3. 7	43. 0	5. 8	·1116					
3. 36	43. 0		***					
3. 54	41. 30	6. 0	·1123					
5. 24	39. 30		***					
6. 29	39. 50	6. 25	·1117					
6. 44	39. 15		***					
7. 15	38. 40	7. 2	·1121					
8. 0	35. 0		***					
8. 12	35. 25	7. 34	·1107					
8. 28	32. 30		***					
9. 4	31. 45	7. 54	·1106					
9. 29	34. 15		***					
10. 28	37. 10	8. 13	·1099					
10. 45	37. 0		***					
10. 57	37. 30	8. 44	·1096					
	***		***					
17. 54	38. 0	9. 10	·1110					
18. 25	39. 30	9. 52	·1111					
19. 30	38. 30	10. 11	·1117					
20. 15	38. 40	10. 25	·1115					

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. 27		Feb. 27						
h m	° ′ ″	h m		h m		h m	°	°
21. 29.	21. 37. 15	16. 55	·1128					
22. 46	40. 0	17. 36	·1128					
23. 59	40. 55	19. 43	·1132					
		20. 30	·1124					
			***					
		23. 59	·1112					
Feb. 28		Feb. 28		Feb. 28		Feb. 28		
0. 0	21. 40. 55	0. 0	·1112	0. 8	·01276	1. 40	51 ·1	51 ·3
0. 11	42. 0	0. 44	·1107	2. 32	·01001	3. 40	54 ·5	54 ·5
0. 28	41. 10		***	2. 34	·01032	9. 40	55 ·8	55 ·3
	***	1. 18	·1114	3. 37	·01090	22. 29	46 ·8	48 ·2
1. 11	42. 40		***		·01498			
	***	1. 32	·1108	5. 25	·01220			
2. 38	41. 35		***	6. 34	·01156			
	***	2. 43	·1111	10. 12	·01235			
3. 33	42. 0		***	14. 37	·01536			
	***	3. 40	·1104	18. 13	·01930			
4. 42	41. 20		***	23. 0	·01934			
	***	4. 24	·1112					
6. 28	38. 45		***					
6. 50	39. 20	5. 9	·1106					
7. 8	38. 45	5. 34	·1108					
11. 27	38. 0	8. 0	·1105					
11. 44	37. 30		***					
17. 28	39. 50	21. 18	·1131					
18. 10	39. 0	23. 0	·1128					
19. 36	38. 30	23. 59	·1112					
	***							
21. 5	37. 0							
21. 26	37. 50							
21. 31	37. 30							
	***							
22. 14	39. 10							
22. 39	38. 50							
23. 59	39. 35							
Mar. 1		Mar. 1		Mar. 1		Mar. 1		
0. 0	21. 39. 40	0. 0	·1112	0. 0	·01936	9. 40	52 ·0	52 ·5
0. 11	42. 30		***	2. 5	·01979	12. 40	52 ·2	52 ·5
0. 25	43. 10	0. 8	·1119	3. 44	·01875	13. 40	52 ·2	52 ·8
0. 38	43. 0		***	6. 0	·01656	14. 40	52 ·7	52 ·7
0. 52	44. 50	0. 35	·1111	8. 3	·01420	15. 40	53 ·1	53 ·1
1. 13	43. 0		***	9. 49	·01276	16. 40	53 ·4	53 ·2
1. 26	42. 0	0. 48	·1116	13. 0	·01168	17. 40	53 ·8	53 ·3
2. 14	41. 45		***	15. 50	·01150	18. 40	54 ·0	54 ·0
2. 22	43. 0	1. 2	·1102	21. 21	·00977	19. 40	54 ·7	54 ·1
2. 50	41. 20		***		·01001	20. 40	54 ·7	54 ·1
3. 15	40. 30	2. 19	·1122	23. 59	·00975	21. 40	55 ·0	54 ·5
3. 45	40. 40		***			22. 40	54 ·8	54 ·2
3. 57	40. 20	2. 40	·1116			23. 40	55 ·0	54 ·6
4. 34	40. 45		***					
4. 47	39. 50	2. 56	·1120					
5. 2	40. 20		***					
5. 45	38. 40	3. 2	·1117					
6. 31	38. 0		***					
7. 15	38. 5	3. 39	·1121					
7. 39	37. 0		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 1		Mar. 1						
h m	° ′ ″	h m		h m		h m	°	°
7. 45	21. 37. 0	3. 53	·1116					
8. 11	34. 0		***					
9. 0	37. 20	4. 16	·1120					
11. 20	36. 50		***					
11. 36	36. 0	4. 46	·1110					
11. 46	36. 20		***					
12. 27	32. 50	5. 8	·1111					
	***		***					
14. 29	36. 30	5. 23	·1116					
14. 46	36. 0		***					
15. 15	36. 10	5. 28	·1113					
15. 31	36. 30	7. 32	·1106					
15. 57	35. 40	8. 20	·1112					
16. 11	36. 30	8. 38	·1111					
20. 7	35. 25	8. 52	·1114					
21. 22	34. 30	12. 39	·1111					
22. 31	34. 30	13. 13	·1111					
23. 59	38. 0	13. 26	·1106					
		14. 15	·1104					
		20. 25	·1114					
			***					
		23. 8	·1106					
			***					
		23. 59	·1097					
Mar. 2		Mar. 2		Mar. 2		Mar. 2		
0. 0	21. 38. 0	0. 0	·1097	0. 7	·00980	0. 40	55 ·4	54 ·9
0. 39	41. 0		***	4. 19	·01086	1. 40	55 ·8	55 ·3
0. 45	40. 10	1. 51	·1097	6. 30	·01152	2. 40	56 ·2	55 ·6
2. 11	40. 45	2. 28	·1101	8. 15	·01260	3. 40	57 ·0	56 ·4
3. 0	38. 55	3. 11	·1099	9. 45	·01335	4. 40	57 ·5	56 ·8
5. 20	36. 15	3. 50	·1105	15. 51	·01536	5. 40	57 ·5	56 ·5
6. 27	36. 0	4. 31	·1103	19. 38	·01712	6. 40	57 ·9	57 ·0
6. 59	32. 20	5. 7	·1104	23. 5	·01920	7. 40	58 ·0	57 ·0
7. 40	34. 40	6. 0	·1099	23. 55	·01938	8. 40	57 ·8	56 ·5
13. 28	36. 0	6. 34	·1101			9. 40	57 ·7	56 ·3
14. 36	35. 30		***			10. 40	57 ·7	56 ·3
	***	7. 3	·1102			11. 40	57 ·7	56 ·3
18. 46	35. 30	7. 52	·1107			21. 40	53 ·0	53 ·5
19. 2	34. 35	8. 45	·1106					
19. 13	35. 30	9. 7	·1103					
22. 6	34. 20	11. 43	·1102					
23. 2	34. 50		***					
23. 53	37. 0	20. 18	·1123					
			***					
		23. 59	·1107					
Mar. 3		Mar. 3		Mar. 3		Mar. 3		
0. 1	21. 37. 0	0. 0	·1107	0. 0	·01993	1. 40	53 ·9	53 ·7
1. 32	38. 50		***	3. 24	·01912	3. 40	55 ·2	54 ·4
1. 52	41. 0	1. 7	·1114	7. 11	·01727	9. 40	55 ·1	54 ·7
2. 25	38. 30		***	8. 30	·01686	21. 40	48 ·2	49 ·2
	***	1. 33	·1108	11. 5	·01713			
4. 10	37. 30		***	13. 38	·01847			
	***	1. 52	·1117	15. 45	·02055			
5. 48	34. 30		***	21. 2	·02035			
	***	2. 16	·1104		·01943			
9. 58	34. 30		***	22. 39	·01956			

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	°	°
10. 36	21. 33. 15	6. 7	·1101	23. 59	·01980			
	***		***					
11. 45	33. 20	6. 36	·1108					
			***					
13. 4	34. 40							
13. 29	33. 30	8. 45	·1110					
			***					
13. 45	33. 40							
14. 20	41. 0	10. 17	·1104					
			***					
15. 0	37. 40							
15. 58	34. 40	13. 30	·1111					
			***					
16. 55	35. 10							
17. 40	33. 20	14. 24	·1101					
			***					
17. 54	34. 30							
18. 13	34. 0	14. 52	·1113					
			***					
18. 31	34. 35							
	***	21. 27	·1116					
			***					
20. 33	33. 50							
23. 2	36. 50	23. 50	·1105					
23. 18	37. 35							
23. 59	38. 0							
Mar. 4		Mar. 4		Mar. 4				
0. 0	21. 38. 0	0. 8	·1137	0. 9	·01902	1. 40	50 ·0	51 ·0
			***	2. 47	·01796	3. 40	52 ·0	52 ·0
0. 39	41. 30			4. 5	·01693	9. 40	55 ·0	54 ·0
	***	0. 30	·1141	7. 23	·01262	21. 40	45 ·5	47 ·2
			***					
1. 48	40. 0			8. 48	·01150			
2. 22	38. 20	1. 25	·1133	9. 52	·01101			
			***					
2. 40	38. 30			13. 49	·01209			
2. 51	37. 20	12. 30	·1141	15. 45	·01380			
			***					
5. 0	34. 0			20. 40	{ ·01977			
5 39	33. 40	15. 25	·1143		{ ·01897			
			***					
6. 10	34. 30			23. 22	{ ·01894			
7. 56	34. 45	19. 34	·1150		{ ·01783			
			***					
8. 11	34. 5			23. 59	·01817			
8. 35	35. 0	21. 28	·1146					
			***					
17. 52	35. 5							
20. 0	34. 40	23. 35	·1134					
	***							
21. 59	32. 45							
23. 24	36. 50							
Mar. 5		Mar. 5		Mar. 5		Mar. 5		
0. 28	21. 40. 25	0. 22	·1138	0. 40	·01820	1. 40	46 ·8	47 ·0
			***					
1. 29	41. 0			2. 50	{ ·01855	3. 40	49 ·0	48 ·7
1. 37	41. 50	2. 44	·1145		{ ·01823	9. 40	49 ·0	49 ·7
			***	3. 54	·01725	21. 40	48 ·1	48 ·6
2. 6	40. 10			6. 30	·01380			
2. 28	39. 35	3. 8	·1144	7. 23	·01309			
			***					
2. 45	39. 50			8. 19	·01280			
3. 44	37. 0	3. 15	·1122	13. 54	·01523			
			***					
5. 16:	34. 10			18. 0	·01551			
6. 30	34. 30	9. 13	·1124	20. 47	·01536			
	***	11. 9	·1128	23. 59	·01442			
			***					
8. 45	34. 30							
10. 45	35. 25	16. 9	·1126					
	***		***					
14. 48	33. 45	18. 12	·1130					
			***					
15. 40	34. 30							
20. 22	32. 45	22. 15	·1128					
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 5		Mar. 5						
h m	° ′ ″	h m		h m		h m	°	°
22. 40	21. 37. 30	23. 59	·1124					
	***							
23. 58	39. 5							
Mar. 6		Mar. 6		Mar. 6		Mar. 6		
0. 21	21. 38. 30	0. 0	·1124	0. 7	·01442	1. 40	51 ·3	51 ·3
			***		{ ·01077	3. 40	54 ·0	53 ·7
1. 9	41. 0			3. 49	{ ·01384	9. 40	55 ·7	55 ·3
3. 15	38. 0	3. 22	·1123			21. 40	48 ·7	49 ·2
3. 48	36. 10	3. 30	·1121	5. 23	·01140			
4. 11	34. 40	4. 0	·1122	6. 21	·01076			
5. 5	34. 20	6. 7	·1121	6. 23	·01134			
6. 41	35. 30	7. 43	·1118	6. 51	·01120			
6. 53	34. 30	8. 2	·1110	9. 6	·01198			
7. 10	35. 0	8. 22	·1108	10. 19	·01313			
7. 39	35. 25	8. 33	·1118	13. 24	·01450			
8. 7	31. 40	9. 7	·1112	14. 21	·01405			
8. 15	32. 50	11. 0	·1124	15. 6	·01513			
8. 39	30. 0	12. 55	·1117	16. 0	·01576			
8. 58	32. 0	13. 52	·1146	19. 50	·01938			
9. 15	31. 0	14. 48	·1098	23. 59	·01977			
9. 32	28. 50	15. 45	·1112					
10. 1	32. 10	18. 3	·1115					
10. 40	33. 35	18. 22	·1118					
11. 36	35. 0	18. 37	·1116					
11. 52	33. 40	19. 12	·1128					
12. 22	33. 35	21. 25	·1113					
12. 41	32. 15	23. 0	·1116					
13. 5	33. 30							
13. 24	30. 25							
13. 42	37. 10							
14. 22	19. 0							
15. 12	32. 10							
15. 17	31. 40							
15. 28	32. 30							
15. 57	28. 45							
16. 24	30. 30							
16. 40	29. 40							
	***							
17. 0	32. 30							
	***							
18. 39	34. 0							
18. 52	32. 50							
18. 58	34. 20							
	***							
19. 12	33. 0							
	***							
19. 26	34. 35							
	***							
19. 44	34. 20							
19. 51	34. 45							
20. 9	34. 0							
	***							
20. 45	36. 5							
20. 58	37. 30							
	***							
21. 20	35. 5							
22. 1	35. 0							
	***							
23. 32	39. 50							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 7		Mar. 7		Mar. 7		Mar. 7		
h m	° ′ ″	h m		h m		h m	°	°
0. 40	21. 41. 0	0. 37	·1114	0. 42	·01942	1. 40	52 ·4	51 ·9
0. 56	41. 10		***	1. 52	·01896	3. 40	54 ·8	54 ·0
1. 10	42. 30	1. 17	·1113	2. 31	·01664	9. 40	53 ·5	54 ·8
1. 30	40. 50		***	3. 49	·01486	23. 12	45 ·0	45 ·7
1. 47	42. 30	1. 27	·1108	6. 36	·01055			
1. 57	41. 0		***	8. 40	·00981			
2. 32	40. 50	1. 45	·1112		·01037			
	***	2. 36	·1113	10. 1	·01074			
2. 57	38. 35	3. 9	·1117	10. 22	·01130			
3. 13	38. 35	4. 39	·1108	13. 0	·01216			
3. 32	37. 30	5. 0	·1115	14. 23	·01320			
3. 45	37. 35		***	19. 55	·01937			
4. 10	36. 0	5. 27	·1107	20. 30	·01960			
	***		***		·01878			
4. 45	34. 35	6. 54	·1111	23. 30	·01872			
5. 11	35. 30	7. 9	·1105					
5. 33	34. 40	7. 52	·1111					
5. 42	35. 0	8. 10	·1102					
5. 54	35. 5	8. 46	·1109					
6. 10	36. 0	9. 2	·1100					
6. 33	35. 40	9. 48	·1108					
6. 56	36. 30	10. 6	·1104					
7. 10	35. 35	10. 16	·1114					
8. 21	36. 0	11. 0	·1103					
8. 40	33. 10	11. 17	·1110					
8. 52	35. 25	11. 51	·1114					
9. 8	32. 45	12. 58	·1133					
	***	13. 58	·1115					
9. 29	33. 0	14. 24	·1115					
9. 58	35. 0	14. 46	·1108					
10. 12	33. 25	15. 30	·1126					
10. 26	34. 30	16. 3	·1123					
	***	18. 11	·1122					
10. 39	34. 30	18. 36	·1119					
	***	19. 13	·1129					
10. 59	32. 50	20. 6	·1122					
11. 28	33. 40	20. 39	·1112					
12. 0	32. 0	21. 18	·1117					
12. 28	38. 50	22. 40	·1120					
12. 45	34. 50	23. 45	·1116					
13. 10	34. 45							
13. 21	32. 50							
13. 39	32. 5							
13. 47	32. 10							
14. 10	33. 35							
	***							
14. 58	32. 0							
15. 15	29. 20							
15. 45	28. 10							
16. 9	31. 0							
16. 45	30. 35							
16. 59	31. 45							
17. 10	31. 0							
17. 53	30. 30							
18. 15	31. 10							
18. 42	33. 20							
19. 4	32. 30							
19. 29	34. 10							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 7								
h m	° ′ ″	h m		h m		h m	°	°
19. 52	21. 33. 10							
20. 13	34. 35							
20. 30	33. 15							
20. 40	33. 55							
20. 52	32. 55							
21. 27	32. 50							
22. 0	35. 0							
23. 13	37. 5							
23. 28	38. 15							
23. 59	39. 0							
Mar. 8		Mar. 8		Mar. 8		Mar. 8		
0. 0	21. 39. 0	0. 0	·1118	0. 0	·01854	9. 57	44 ·0	45 ·8
	***		***	3. 51	·01915	12. 40	43 ·5	44 ·5
1. 40	41. 0	1. 31	·1131	6. 53	·01896	13. 40	43 ·0	44 ·0
1. 52	40. 0		***	8. 18	·01922	14. 40	42 ·5	44 ·0
1. 59	40. 30	5. 35	·1131		·01875	15. 40	42 ·5	44 ·0
2. 41	39. 10	7. 19	·1122	11. 27	·01870	16. 40	42 ·5	43 ·7
2. 50	39. 30	7. 50	·1128	14. 30	·01852	17. 40	42 ·6	43 ·7
3. 8	37. 50	8. 33	·1130	20. 53	·01791	18. 40	42 ·7	44 ·0
3. 13	38. 20	8. 52	·1139	23. 52	·01654	19. 40	43 ·0	44 ·2
4. 44	35. 0	9. 23	·1134			20. 40	43 ·0	44 ·0
6. 15	35. 40	9. 40	·1136			21. 40	43 ·5	44 ·3
7. 10	32. 20	11. 24	·1126			22. 40	44 ·2	44 ·8
7. 30	34. 25	11. 37	·1138			23. 40	45 ·0	45 ·2
7. 45	34. 30	11. 55	·1130					
8. 3	36. 30	14. 0	·1126					
8. 13	35. 50	16. 0	·1126					
8. 26	36. 30	16. 35	·1134					
8. 46	32. 40	18. 40	·1124					
9. 13	35. 30	19. 19	·1129					
9. 40	32. 40	23. 54	·1123					
10. 11	32. 30							
10. 29	33. 45							
10. 39	37. 0							
11. 0	37. 30							
11. 12	36. 40							
11. 21	37. 30							
11. 41	37. 0							
11. 58	34. 50							
12. 24	32. 40							
12. 40	33. 0							
13. 13	33. 30							
13. 45	35. 30							
14. 50	34. 50							
15. 9	32. 30							
15. 31	32. 10							
16. 22	33. 20							
16. 59	31. 30							
17. 41	31. 5							
18. 57	33. 0							
19. 15	32. 0							
20. 54	32. 5							
	***							
22. 11	34. 15							
22. 41	36. 30							
22. 52	36. 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. 8								
h m	° ′ ″	h m		h m		h m	°	°
23. 30	21. 38. 20							
23. 54	38. 50							
Mar. 9		Mar. 9		Mar. 9		Mar. 9		
0. 0	21. 39. 0	0. 0	·1118		(†)	0. 40	45 ·8	45 ·8
1. 0	39. 35	1. 0	·1128	1. 7	·01577	1. 40	46 ·8	46 ·7
1. 27	38. 30	3. 55	·1129	2. 21	·01516	2. 40	47 ·7	47 ·6
1. 38	39. 20	4. 7	·1124	6. 30	·01045	3. 40	49 ·0	48 ·6
	***	4. 52	·1124	8. 23	·00972	4. 40	50 ·0	49 ·6
4. 50	34. 0	5. 15	·1130	14. 0	·01220	5. 40	50 ·5	49 ·8
5. 23	34. 30	5. 31	·1124	17. 51	·01558	6. 40	51 ·0	50 ·6
5. 37	33. 10	6. 27	·1126	20. 49	·01835	7. 40	51 ·5	50 ·1
6. 9	34. 30	9. 39	·1115		·01762	8. 40	51 ·1	50 ·4
6. 56	34. 30		***	22. 42	·01780	9. 40	51 ·1	50 ·5
7. 11	35. 5	11. 55	·1127		(†)	10. 40	50 ·2	49 ·6
7. 19	34. 50	12. 49	·1121			11. 40	49 ·7	49 ·0
7. 58	35. 30	14. 7	·1131			21. 40	41 ·7	42 ·7
8. 16	34. 40	14. 37	·1129					
8. 46	35. 15	18. 54	·1146					
8. 58	34. 30		***					
9. 40	34. 0	19. 12	·1141					
9. 48	33. 30		***					
10. 12	33. 25	20. 47	·1147					
10. 22	34. 0		***					
10. 52	33. 0	22. 52	·1143					
11. 0	35. 0		(†)					
11. 8	34. 0							
11. 22	33. 0							
11. 44	32. 30							
12. 24	33. 40							
12. 44	33. 40							
13. 6	34. 45							
14. 14	37. 0							
14. 44	35. 35							
16. 0	35. 50							
17. 4	35. 0							
17. 43	36. 10							
18. 20	35. 25							
18. 44	35. 50							
19. 12	34. 45							
19. 52	35. 35							
20. 36	34. 40							
20. 43	35. 5							
	***							
21. 22	32. 45							
22. 0	33. 50							
	***							
22. 30	36. 0							
	***							
23. 0	36. 0							
	(†)							
Mar. 10		Mar. 10		Mar. 10		Mar. 10		
	(†)		(†)		(†)	1. 40	44 ·4	44 ·5
1. 8	21. 40. 30	1. 0	·1129	1. 9	·01700	3. 40	47 ·2	47 ·0
1. 27	41. 0	2. 42	·1142	3. 0	·01594	9. 40	48 ·5	49 ·0
3. 24	37. 20	3. 9	·1139	4. 11	·01455	21. 40	42 ·2	44 ·2
4. 58	34. 55	9. 38	·1135		(†)			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 10		Mar. 10		Mar. 10				
h m	° ′ ″	h m		h m		h m	°	°
6. 11	21. 34. 35	9. 57	·1125	9. 40	·01004*			
7. 40	35. 30	10. 13	·1126	21. 40	·01570*			
8. 29	35. 0	10. 30	·1140					
9. 51	34. 50	10. 40	·1129					
10. 8	33. 30	10. 48	·1138					
10. 27	34. 15	11. 0	·1127					
11. 10	18. 0	11. 27	·1124					
11. 30	24. 10	11. 43	·1132					
11. 45	24. 20	12. 0	·1121					
12. 44	35. 30	12. 8	·1124					
13. 4	34. 20	13. 9	·1132					
13. 46	35. 0	14. 54	·1141					
14. 15	37. 35	15. 52	·1131					
15. 1	32. 50	16. 30	·1134					
15. 19	33. 30	16. 44	·1143					
15. 28	34. 50	16. 48	·1137					
15. 42	34. 40	17. 4	·1135					
16. 1	37. 0	17. 15	·1140					
16. 18	36. 0	19. 30	·1151					
16. 30	35. 55	22. 0	·1131					
16. 45	37. 10		(†)					
17. 6	36. 15							
17. 38	38. 45							
17. 54	37. 30							
18. 11	37. 45							
18. 44	36. 0							
18. 59	36. 30							
19. 12	36. 0							
19. 34	36. 10							
20. 6	34. 25							
20. 57	34. 10							
	***							
21. 42	33. 30							
22. 5	34. 25							
	(†)							
Mar. 11		Mar. 11		Mar. 11		Mar. 11		
0. 10	21. 43. 40	0. 3	·1130	0. 0	·01661	1. 40	44 ·0	45 ·2
0. 42	45. 10	0. 14	·1126	1. 53	·01713	3. 40	46 ·2	47 ·0
	***	1. 8	·1107	2. 45	·01694	9. 40	46 ·5	47 ·5
1. 11	48. 20	1. 29	·1115	5. 15	·01477	21. 40	40 ·5	42 ·3
	***	2. 10	·1120	6. 36	·01382			
1. 17	47. 20	2. 47	·1126		·01456			
	***	3. 8	·1131	7. 35	·01417			
1. 28	48. 40	4. 7	·1134	9. 50	·01454			
	***	4. 33	·1131	15. 0	·01643			
1. 45	47. 30	4. 45	·1139	19. 3	·01868			
	***	4. 52	·1134		·01802			
1. 52	49. 30	5. 4	·1139	22. 36	·01813			
2. 27	48. 25	5. 21	·1119	23. 59	·01843			
2. 49	46. 40	6. 10	·1106					
3. 0	41. 0	6. 27	·1111					
3. 15	42. 0	6. 44	·1121					
	***	7. 0	·1118					
3. 34	42. 0	7. 14	·1124					
3. 43	41. 0	7. 24	·1121					
4. 2	40. 50	7. 37	·1123					
4. 12	40. 15	7. 51	·1138					

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. 11		Mar. 11						
h m	° ′ ″	h m		h m		h m	°	°
4. 16	21. 40. 30	8. 30	·1129					
			***					
4. 23	40. 0							
4. 40	39. 20	19. 15	·1140					
			***					
4. 51	40. 10							
5. 0	39. 20	19. 44	·1135					
			***					
5. 11	39. 50							
5. 41	37. 35	21. 18	·1132					
6. 4	34. 0	22. 15	·1123					
6. 41	34. 50	23. 59	·1118					
6. 45	34. 30							
7. 0	36. 50							
7. 28	36. 30							
7. 57	28. 50							
8. 14	32. 0							
8. 28	31. 15							
8. 41	34. 30							
8. 57	34. 10							
9. 21	36. 40							
11. 38	37. 30							
13. 0	36. 10							
14. 0	37. 40							
14. 43	37. 10							
14. 58	38. 0							
15. 9	37. 30							
15. 22	38. 0							
15. 54	37. 0							
16. 14	38. 30							
16. 40	37. 40							
	***							
17. 39	37. 25							
18. 11	36. 30							
18. 49	37. 30							
19. 17	37. 0							
19. 28	37. 0							
19. 46	36. 55							
20. 9	37. 0							
20. 27	36. 30							
	***							
21. 58	36. 10							
	***							
23. 59	39. 40							
Mar. 12		Mar. 12		Mar. 12		Mar. 12		
0. 0	21. 39. 40	0. 34	·1121	0. 19	·01835	1. 40	43 ·8	45 ·2
1. 9	42. 20	1. 4	·1116	1. 20	·01818	3. 40	46 ·8	48 ·0
3. 54	38. 0	4. 9	·1124	3. 5	·01676	9. 40	49 ·0	50 ·5
			***	6. 0	·01204	21. 40	43 ·0	44 ·3
5. 30	35. 30							
7. 31	36. 35	9. 12	·1121	7. 7	·01073			
12. 34	37. 0	12. 9	·1128	8. 8	·00997			
13. 26	35. 40	13. 25	·1129	8. 17	·01029			
13. 48	38. 25	13. 48	·1141	9. 45	·01016			
14. 2	35. 30	13. 59	·1142	15. 7	·01175			
14. 17	34. 0	14. 10	·1136	18. 39	·01396			
14. 39	34. 10	14. 39	·1151	22. 35	·01700			
15. 10	31. 40	15. 22	·1122	23. 59	·01725			
15. 28	33. 25	16. 21	·1139					
15. 42	37. 0	16. 43	·1140					
16. 11	36. 50	16. 52	·1133					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 12		Mar. 12						
h m	° ′ ″	h m		h m		h m	°	°
16. 24	21. 34. 20	17. 40	·1141					
16. 39	33. 30	18. 11	·1137					
16. 48	34. 40	22. 5	·1127					
17. 0	33. 0	22. 32	·1120					
	***	23. 40	·1125					
17. 16	35. 30	23. 52	·1114					
	***	23. 59	·1119					
17. 52	34. 5							
	***							
18. 21	34. 25							
	***							
18. 44	34. 30							
	***							
19. 17	36. 0							
	***							
20. 11	34. 30							
	***							
21. 34	35. 30							
	***							
23. 50	45. 45							
	***							
23. 59	44. 30							
Mar. 13		Mar. 13		Mar. 13		Mar. 13		
0. 0	21. 44. 30	0. 0	·1119	0. 12	·01720	1. 40	47 ·0	47 ·0
0. 50	42. 40	3. 14	·1118	2. 18	·01632	3. 40	49 ·2	48 ·5
1. 10	44. 5	3. 35	·1106	3. 37	·01469	9. 40	47 ·2	47 ·2
	***	3. 50	·1118	6. 9	·01316	21. 40	44 ·5	46 ·4
1. 30	42. 30	4. 5	·1112	7. 0	·01295			
2. 11	43. 55		***	8. 3	·01320			
2. 18	42. 30	4. 35	·1121	8. 23	·01369			
2. 30	43. 10		***	13. 5	·01494			
2. 52	42. 15	5. 12	·1110	15. 24	·01612			
3. 10	41. 20		***	17. 30	·01574			
3. 15	42. 0	7. 14	·1128	20. 26	·01406			
3. 30	41. 25	7. 27	·1117	22. 21	·01230			
3. 45	39. 0		***	23. 59	·01012			
3. 56	39. 30	7. 32	·1121					
4. 28	38. 15	7. 52	·1102					
4. 58	38. 50	8. 16	·1134					
5. 24	37. 0	8. 33	·1130					
6. 45	37. 25	8. 46	·1133					
6. 55	35. 35	9. 15	·1120					
7. 15	35. 30		***					
7. 28	36. 30	12. 16	·1143					
8. 21	8. 45		***					
8. 27	8. 45	12. 45	·1130					
9. 14	32. 40		***					
10. 0	37. 45	19. 20	·1140					
11. 42	37. 30	21. 5	·1128					
12. 5	37. 50	21. 30	·1132					
12. 20	39. 50	23. 5	·1120					
12. 57	37. 50							
13. 12	37. 0							
13. 28	37. 10							
15. 0	37. 15							
15. 18	38. 0							
16. 24	36. 50							
17. 5	37. 15							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 13								
h m	° ′ ″	h m		h m		h m	°	°
18. 30	21. 36. 30							
19. 1	36. 45							
19. 31	36. 15							
21. 54	37. 0							
22. 14	37. 30							
22. 46	39. 45							
23. 10	39. 30							
Mar. 14		Mar. 14		Mar. 14		Mar. 14		
0. 25	21. 42. 0	0. 53	·1116	0. 25	·00976	1. 40	49 ·2	51 ·2
1. 30	41. 30	1. 43	·1114	1. 28	·00847	3. 40	52 ·5	53 ·0
2. 30	40. 20	2. 56	·1118	2. 7	·00935	9. 40	54 ·1	54 ·8
	***	4. 24	·1107	5. 10	·01080	23. 18	52 ·0	53 ·0
4. 40	37. 50	5. 37	·1116	10. 30	·01021			
	***	6. 2	·1108	15. 55	·01087			
5. 42	37. 35	6. 16	·1119	19. 0	·01077			
6. 12	33. 55	6. 39	·1111	23. 12	·01405			
6. 29	36. 0	6. 53	·1125					
6. 45	30. 30	7. 10	·1114					
7. 11	35. 20	9. 18	·1116					
	***	9. 39	·1114					
7. 37	36. 30	10. 2	·1133					
7. 56	35. 0	10. 9	·1125					
8. 11	36. 30	10. 18	·1117					
8. 25	36. 55	11. 15	·1119					
8. 46	36. 0	11. 30	·1131					
9. 10	37. 0	11. 58	·1134					
9. 22	36. 35	12. 10	·1125					
9. 54	31. 30	13. 25	·1118					
10. 41	35. 0	15. 6:	·1122					
11. 10	35. 5	19. 18	·1124					
11. 16	36. 30	22. 13	·1119					
11. 46	32. 55	23. 59	·1113					
12. 19	33. 0							
12. 45	32. 35							
13. 13	34. 30							
13. 43	34. 55							
13. 52	36. 0							
14. 6	35. 5							
15. 30	36. 0							
16. 48	35. 30							
17. 2	36. 0							
17. 15	35. 10							
18. 1	35 45							
	***							
19. 59	35. 30							
20. 43	35. 0							
22. 25	36. 20							
22. 40	37. 30							
23. 10	38. 25							
23. 59	39. 35							
Mar. 15		Mar. 15		Mar. 15		Mar. 15		
0. 0	21. 39. 35	0. 0	·1113	0. 0	·01454	9. 45	49 ·7	50 ·5
1. 0	41. 10	2. 30	·1121	2. 12	·01660	12. 40	48 ·0	48 ·7
2. 15	41. 20	2. 46	·1116	3. 30	·01736	13. 40	47 ·7	48 ·3
2. 49	39. 30	2. 54	·1119	7. 25	·01712	14. 40	47 ·9	48 ·5

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 15		Mar. 15		Mar. 15		Mar. 15		
h m	° ′ ″	h m		h m		h m	°	°
3. 1	21. 40. 10	3. 0	·1127	8. 46	·01723	15. 40	48 ·0	48 ·5
3. 25	38. 35	3. 25	·1117	13. 8	·02020	16. 40	48 ·3	48 ·7
3. 40	38. 40	3. 45	·1124	17. 30	·02076	17. 40	49 ·0	49 ·5
3. 59	36. 30	4. 0	·1117	21. 0	·02015	18. 40	49 ·2	49 ·6
4. 16	37. 0	12. 15	·1131	23. 59	·01840	19. 40	50 ·0	50 ·2
5. 21	35. 30	13. 12	·1126			20. 40	50 ·2	50 ·2
6. 30	35. 40	13. 35	·1131			21. 40	50 ·8	50 ·3
6. 54	33. 30	14. 2	·1129			22. 40	51 ·1	50 ·7
7. 15	35. 45	15. 53	·1134			23. 40	51 ·7	51 ·1
7. 39	35. 30	16. 14	·1132					
7. 54	36. 30	17. 30	·1134					
12. 41	37. 30	17. 53	·1131					
14. 11	36. 0	19. 20	·1132					
16. 0	36. 20	21. 14	·1130					
16. 29	35. 30	22. 9	·1123					
17. 29	36. 35	23. 59	·1114					
18. 0	36. 0							
18. 18	37. 0							
18. 35	36. 50							
18. 54	37. 30							
19. 15	37. 0							
19. 42	35. 20							
20. 28	34. 20							
20. 37	34. 50							
20. 45	33. 30							
	***							
21. 34	33. 0							
21. 42	34. 0							
21. 45	33. 30							
23. 59	38. 30							
Mar. 16		Mar. 16		Mar. 16		Mar. 16		
0. 0	21. 38. 30	0. 0	·1114	0. 54	·01792	0. 40	52 ·8	52 ·2
1. 0	40. 30		***	1. 53	·01694	1. 40	54 ·0	53 ·4
	***	2. 52	·1126	4 52	{ ·01162	2. 40	55 ·1	54 ·3
2. 52	41. 35		***		{ ·01218	3. 40	56 ·1	55 ·8
	***	3. 39	·1116	6. 5	·01220	4. 40	57 ·2	56 ·9
3. 41	38. 30		***	8. 51	·01314	5. 40	57 ·5	57 ·0
3. 57	39. 20	3. 55	·1124	13. 0	·01516	6. 40	57 ·5	57 ·0
4. 12	38. 0		***	16. 19	·01780	7. 40	57 ·7	57 ·2
	***	4. 7	·1119	19. 6	·02057	8. 40	56 ·9	56 ·6
5. 45	36. 35		***	20. 27	{ ·02057	9. 40	56 ·0	56 ·5
	***	4. 22	·1117		{ ·01922	10. 40	55 ·5	56 ·0
6. 13	37. 30		***	22. 49	·01930	11. 40	55 ·0	55 ·5
6. 52	35. 25	4. 30	·1121	23. 59	·01879	21. 40	47 ·6	49 ·4
7. 33	36. 55		***					
7. 45	35. 45	4. 58	·1116					
8. 12	35. 30		***					
8. 36	31. 10	5. 20	·1122					
9. 0	34. 30		***					
10. 0	34. 25	6. 3	·1101					
10. 30	33. 45		***					
10. 45	34. 30	6. 8	·1111					
10. 59	32. 30		***					
11. 52	31. 0	6. 10	·1095					
12. 30	35. 0		***					
	***	6. 37	·1106					
			***					

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. 16		Mar. 16						
h m	° ′ ″	h m		h m		h m	°	°
13. 22	21. 35. 30	6. 52	·1097					
			***					
13. 45	33. 40							
14. 2	35. 20	7. 40	·1097					
			***					
14. 22	38. 0							
14. 43	37. 50	7. 53	·1103					
			***					
14. 57	36. 50							
15. 22	36. 10	8. 9	·1097					
			***					
15. 40	37. 0							
15. 57	33. 30	8. 37	·1111					
16. 8	34. 0	8. 48	·1104					
	***	9. 25	·1106					
16. 35	37. 0	10. 10	·1101					
	***	10. 45	·1101					
			***					
17. 6	42. 50							
	***	10. 57	·1114					
			***					
18. 27	35. 30							
	***	11. 16	·1119					
			***					
18. 53	37. 30							
	***	11. 53	·1102					
			***					
20. 2	37. 5							
	***	12. 28	·1103					
			***					
20. 44	34. 25							
	***	13. 22	·1106					
			***					
21. 9	35. 0							
21. 15	34. 30	14. 9	·1101					
			***					
21. 28	36. 10							
	***	14. 44	·1112					
			***					
23. 14	39. 45							
	***	15. 10	·1108					
			***					
23. 30	41. 40							
23. 59	40. 35	16. 2	·1118					
			***					
		16. 21	·1116					
			***					
		16. 24	·1111					
			***					
		17. 16	·1110					
			***					
		17. 51	·1121					
			***					
		19. 12	·1114					
			***					
		19. 43	·1121					
			***					
		21. 22	·1114					
			***					
		22. 40	·1096					
			***					
		23. 59	·1086					
Mar. 17		Mar. 17		Mar. 17		Mar. 17		
0. 0	21. 40. 35	0. 0	·1086	0. 9	·01880	1. 40	53·2	53·9
			***	1. 15	·01813	3. 40	56·0	56·0
0. 20	41. 20			3. 38	·01465	9. 40	56·6	56·6
0. 51	41. 25	2. 26	·1096	4. 20	·01336	21. 40	50·8	52·1
			***	5. 30	·01316			
1. 0	43. 10			6. 39	·01169			
	***	2. 40	·1091					
			***					
2. 12	41. 20							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 17		Mar. 17		Mar. 17				
h m	° ′ ″	h m		h m		h m	°	°
2. 22	21. 42. 0	3. 15	·1092	8. 30	·01162			
	***		***	8. 41	·01125			
3. 5	40. 10	3. 39	·1102	8. 46	·01149			
3. 45	41. 30		***	8. 48	·01135			
3. 56	39. 30	4. 0	·1090	9. 11	·01158			
	***		***	9. 28	·01112			
5. 1	38. 25	4. 54	·1108	11. 37	·01143			
5. 30	33. 0		***	14. 20	·01216			
5. 45	34. 30	5. 30	·1082	17. 0	·01437			
6. 14	30. 15		***	21. 54	·01715			
6. 37	32. 40	5. 38	·1086	23. 18	·01720			
6. 45	30. 25		***	23. 52	·01689			
6. 57	37. 45	6. 0	·1075					
7. 11	32. 0		***					
7. 15	32. 30	6. 16	·1076					
7. 34	29. 50		***					
8. 15	30. 30	6. 38	·1096					
8. 27	36. 50		***					
8. 54	13. 0	6. 51	·1083					
9. 15	29. 0		***					
9. 36	24. 45	7. 0	·1094					
9. 44	25. 50		***					
9. 59	23. 0	7. 14	·1073					
10. 24	29. 30		***					
11. 0	30. 0	8. 23	·1079					
11. 30	34. 0		***					
12. 6	31. 10	8. 30	·1093					
12. 30	34. 0		***					
12. 51	30. 0	8. 41	·1067					
13. 15	39. 20		***					
13. 30	44. 30	8. 46	·1076					
13. 57	39. 20		***					
14. 10	39. 40	8. 51	·1064					
14. 33	36. 30		***					
15. 25	37. 10	9. 15	·1120					
16. 0	36. 50		***					
16. 15	37. 30	9. 26	·1072					
16. 29	36. 15		***					
16. 34	36. 30	9. 38	·1080					
16. 46	35. 45		***					
16. 52	36. 55	9. 51	·1070					
17. 10	35. 30		***					
	***	10. 11	·1081					
18. 2	36. 20		***					
	***	10. 37	·1080					
18. 52	36. 10		***					
19. 13	37. 30	11. 27	·1095					
19. 30	37. 30		***					
19. 45	38. 0	12. 33	·1099					
19. 58	37. 0		***					
20. 7	37. 10	13. 20	·1083					
20. 15	36. 10		***					
20. 30	38. 0	13. 37	·1096					
20. 41	36. 30		***					
20. 52	35. 10	13. 52	·1096					
21. 0	37. 5		***					
21. 24	36. 40	14. 0	·1092					
21. 35	35. 10		***					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar.17		Mar.17						
h m	° ′ ″	h m		h m		h m	°	°
21. 54	21. 36. 30	18. 30	·1107					
21. 59	36. 0	18. 42	·1100					
	***	22. 51	·1093					
22. 52	38. 30	23. 22	·1082					
	***	23. 35	·1093					
23. 0	41. 0	23. 46	·1085					
23. 28	39. 10							
	***							
23. 42	42. 30							
23. 49	41. 10							
Mar.18		Mar.18		Mar.18		Mar.18		
0. 21	21. 39. 25	0. 0	·1078	0. 0	·01680	1. 40	56 ·3	57 ·8
0. 33	38. 40		***	1. 24	·01535	3. 40	60 ·0	61 ·3
	***	1. 52	·1082	2. 0	·01520	9. 40	63 ·0	63 ·7
1. 8	40. 0		***	2. 53	·01157	21. 40	56 ·2	57 ·8
1. 15	42. 30	2. 58	·1071	4. 23	{ ·01139			
1. 30	42. 30		***		{ ·01261			
1. 51	44. 20	3. 11	·1092	5. 15	·01196			
2. 11	42. 50		***	5. 52	·01194			
2. 39	42. 0	5. 50	·1083	6. 7	·01237			
3. 0	36. 0		***	8. 55	·01300			
	***	6. 0	·1074	9. 8	·01279			
3. 29	38. 30		***	9. 38	·01285			
	***	6. 23	·1102	10. 5	·01240			
3. 41	37. 20		***	10. 30	·01240			
	***	6. 45	·1094	11. 6	·01301			
4. 2	38. 40		***	13. 49	·01435			
	***	7. 0	·1082	18. 45	·01816			
4. 17	38. 30		***	21. 37	·01975			
	***	7. 12	·1093	23. 59	·02012			
4. 28	39. 30		***					
4. 37	39. 50	7. 30	·1073					
4. 47	39. 10		***					
5. 21	38. 45	7. 43	·1080					
5. 45	38. 30		***					
6. 11	29. 10	8. 0	·1073					
	***		***					
6. 27	27. 30	8. 12	·1079					
	***		***					
6. 45	28. 30	8. 32	·1080					
6. 56	31. 20		***					
7. 9	28. 35	8. 40	·1074					
7. 20	32. 20		***					
7. 42	25. 40	8. 50	·1076					
7. 50	25. 5		***					
7. 54	25. 40	9. 0	·1092					
8. 0	25. 0		***					
8. 16	24. 40	9. 17	·1067					
8. 42	29. 20		***					
8. 50	29. 20	9. 35	·1114					
9. 9	36. 0		***					
9. 30	22. 0	10. 8	·1090					
9. 41	27. 20		***					
10. 10	32. 30	10. 15	·1089					
10. 15	32. 20		***					
10. 27	34. 15	10. 32	·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.	Readings of Thermometers. Of V. F. Magnet.
Mar.18		Mar.18						
h m	° ′ ″	h m		h m		h m	°	°
10. 54	21. 29. 50	11. 9	·1086					
11. 24	34. 15		***					
11. 29	34. 5	18. 3	·1101					
12. 0	36. 0		***					
14. 29	36. 30	19. 0	·1090					
14. 47	37. 30		***					
15. 8	36. 0	19. 55	·1091					
15. 13	36. 50		***					
15. 25	37. 5	20. 25	·1095					
15. 45	39. 0		***					
16. 15	37. 20	21. 7	·1094					
16. 36	37. 30		***					
16. 42	37. 0	21. 45	·1086					
17. 1	37. 0		***					
17. 11	37. 30	22. 14	·1087					
17. 54	35. 30		***					
18. 3	36. 20	23. 13	·1077					
18. 11	35. 50		***					
18. 15	36. 20	23. 59	·1082					
18. 27	35. 30							
18. 32	36. 0							
18. 39	35. 40							
18. 46	37. 0							
19. 1	36. 30							
19. 21	38. 0							
19. 45	37. 30							
20. 1	38. 25							
20. 36	37. 35							
20. 50	36. 30							
21. 14	34. 55							
21. 22	34. 20							
21. 29	35. 0							
21. 40	34. 30							
21. 52	35. 0							
22. 1	34. 40							
23. 15	38. 40							
	***							
23. 36	38. 30							
	***							
23. 59	39. 40							
Mar.19		Mar.19		Mar.19		Mar.19		
0. 0	21. 39. 40	0. 0	·1082	0. 36	·02023	1. 40	58 ·0	58 ·8
	***		***	3. 20	·01934	3. 40	58 ·8	59 ·4
0. 13	40. 0	1. 6	·1092	6. 5	·01800	9. 40	57 ·9	59 ·3
	***		***	8. 7	·01749	21. 40	53 ·8	55 ·8
0. 22	41. 50	1. 56	·1091	13. 45	·01897			
	***		***	14. 36	·01875			
0. 32	41. 20	2. 7	·1092	16. 52	{ ·02034			
0. 50	43. 30		***		{ ·01961			
1. 0	43. 20	2. 40	·1094	17. 45	·02005			
1. 13	45. 0		***	22. 36	·02029			
1. 30	43. 50	2. 55	·1083	23. 5	{ ·02017			
1. 52	46. 0		***		{ ·01957			
2. 7	44. 40	4. 10	·1101	23. 59	·01955			
2. 15	45. 30		***					
2. 28	44. 50	4. 43	·1099					
			***					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 19		Mar. 19						
h m	° ′ ″	h m		h m		h m	°	°
2. 42	21. 46. 0	5. 14	·1090					
3. 5	45. 0		***					
3. 15	43. 40	5. 52	·1102					
3. 42	42. 0		***					
4. 0	39. 45	11. 19	·1101					
4. 17	40. 5		***					
5. 8	38. 50	11. 22	·1108					
5. 27	36. 30		***					
6. 2	37. 20	11. 40	·1102					
	***		***					
7. 29	37. 45	11. 49	·1107					
8. 9	36. 50		***					
8. 28	37. 40	12. 13	·1111					
9. 45	36. 40		***					
9. 54	37. 30	12. 26	·1106					
	***		***					
11. 20	37. 0	12. 41	·1099					
12. 0	34. 50		***					
12. 11	35. 25	12. 52	·1102					
12. 40	33. 50		***					
12. 59	32. 30	13. 23	·1103					
14. 0	45. 50		***					
14. 50	37. 30	13. 40	·1098					
15. 5	36. 30		***					
15. 24	35. 30	14. 8	·1112					
15. 38	35. 40		***					
15. 43	34. 50	14. 53	·1115					
15. 49	35. 50		***					
16. 16	34. 45	15. 9	·1102					
16. 52	32. 20		***					
17. 11	35. 20	15. 32	·1097					
17. 27	34. 30		***					
17. 52	36. 25	16. 6	·1104					
18. 28	36. 30		***					
	***	17. 13	·1100					
19. 31	38. 40		***					
	***	18. 28	·1112					
20. 14	38. 30		***					
20. 24	37. 10	19. 9	·1097					
20. 46	36. 0		***					
21. 0	36. 30	19. 41	·1104					
	***		***					
21. 32	35. 30	22. 0	·1095					
	***		***					
22. 33	35. 35	23. 10	·1096					
	***		***					
23. 59	40. 30	23. 59	·1084					
Mar. 20		Mar. 20		Mar. 20		Mar. 20		
0. 0	21. 40. 30	0. 0	·1084	0. 40	·01943	1. 40	54·8	56·4
	***		***	3. 36	·01732	3. 40	55·2	56·2
0. 30	40. 50	1. 22	·1088	5. 15	·01977	9. 40	53·0	54·3
2. 45	41. 30		***	6. 24	·02037	21. 40	43·2	45·2
3. 41	40. 10	1. 39	·1095	7. 30	·02032			
3. 46	40. 50		***	8. 54	·02036			
4. 0	39. 45	2. 10	·1101		·01981			
4. 27	38. 50		***	9. 45	·02017			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 20		Mar. 20		Mar. 20				
h m	° ′ ″	h m		h m		h m	°	°
5. 3	21. 39. 0	3. 54	·1096	17. 14	·01974			
5. 30	36. 40		***	19. 5	·01960			
6. 0	34. 35	4. 7	·1101		·01844			
6. 10	35. 20		***	21. 50	·01854			
6. 22	35. 0	4. 53	·1097	23. 59	·01811			
6. 40	37. 0		***					
6. 48	34. 30	5. 18	·1085					
6. 58	35. 0		***					
7. 6	33. 0	6. 40	·1092					
7. 12	34. 5		***					
7. 23	34. 30	7. 0	·1120					
7. 39	31. 50		***					
8. 10	37. 35	7. 7	·1111					
8. 17	36. 55		***					
9. 8	37. 50	7. 10	·1113					
11. 42	37. 0		***					
12. 13	35. 30	7. 16	·1112					
13. 12	37. 40		***					
14. 12	37. 30	7. 34	·1093					
	***		***					
15. 0	40. 0	7. 40	·1097					
15. 39	37. 50		***					
16. 24	36. 35	7. 58	·1101					
19. 46	35. 30		***					
20. 0	34. 40	9. 7	·1104					
20. 10	35. 0		***					
20. 17	34. 0	10. 48	·1108					
20. 26	34. 20		***					
20. 54	33. 30	11. 32	·1106					
23. 50	40. 30		***					
23. 59	40. 30	12. 0	·1113					
			***					
		12. 41	·1106					
			***					
		13. 53	·1111					
			***					
		14. 18	·1108					
			***					
		15. 0	·1111					
			***					
		15. 44	·1116					
			***					
		16. 7	·1113					
			***					
		19. 25	·1121					
			***					
		20. 32	·1119					
			***					
		20. 50	·1114					
			***					
		22. 8	·1119					
			***					
		22. 24	·1113					
			***					
		23. 59	·1108					
Mar. 21		Mar. 21		Mar. 21		Mar. 21		
0. 0	21. 40. 30	0. 0	·1108	0. 53	·01796	1. 40	46·4	47·0
0. 59	40. 40		***	2. 22	·01736	3. 40	48·0	48·8

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.21		Mar.21		Mar.21		Mar.21		
h m	° ′ ″	h m		h m		h m	°	°
1. 29	21. 42. 0	2. 40	·1099	5. 40	·01382	9. 40	46 ·2	48 ·2
1. 45	40. 0		***	6. 46	·01307	22. 52	39 ·5	42 ·3
1. 54	41. 0	3. 19	·1097	8. 35	·01320			
1. 56	40. 20		***	10. 11	·01386			
2. 20	41. 20	4. 27	·1107	16. 55	·01854			
2. 44	38. 30		***		·01782			
2. 56	38. 40	10. 20	·1120	19. 56	·01808			
4. 16	36. 20		***		·01740			
5. 28:	34. 45	11. 31	·1120	21. 9	·01749			
8. 35	35. 50		***	23. 11	·01701			
13. 40	35. 0	14. 16	·1128					
13. 59	34. 30		***					
14. 15	36. 50	14. 58	·1125					
14. 30	35. 55		***					
18. 8	35. 30	19. 37	·1131					
19. 15	37. 0		***					
19. 41	35. 55	23. 59	·1118					
	***							
19. 57	36. 50							
	***							
20. 32	34. 30							
	***							
20. 50	35. 30							
20. 56	34. 45							
	***							
21. 15	35. 20							
21. 24	34. 20							
21. 40	34. 35							
21. 50	34. 30							
22. 23	34. 45							
	***							
22. 43	37. 0							
	***							
23. 14	38. 20							
23. 24	39. 20							
23. 50	40. 0							
23. 59	40. 25							
Mar.22		Mar.22		Mar.22		Mar.22		
0. 0	21. 40. 30	0. 0	·1118	0. 0	·01670	7. 18	42 ·2	44 ·4
0. 17	42. 0	0. 48	·1121	6. 6	·01472	12. 40	42 ·1	44 ·7
1. 0:	42. 30	3. 6	·1133	7. 45	·01384	13. 40	42 ·5	44 ·5
2. 42	41. 0	3. 22	·1125	14. 37	·01297	14. 40	42 ·4	44 ·6
3. 0	42. 0	4. 5	·1126	16. 10	·01335	15. 40	43 ·0	44 ·8
3. 22	39. 30	5. 6	·1122	20. 30	·01240	16. 40	43 ·4	45 ·0
4. 0	37. 55	5. 17	·1123	23. 37	·01221	17. 40	44 ·2	46 ·0
4. 17	38. 20	5. 37	·1118			18. 40	44 ·8	46 ·2
4. 52	36. 50	6. 22	·1123			19. 40	45 ·1	46 ·1
5. 11	34. 30	6. 37	·1118			20. 40	45 ·0	45 ·5
5. 30	33. 0	7. 36	·1127			21. 40	45 ·2	45 ·6
5. 43	32. 0	8. 10	·1116			22. 40	45 ·3	45 ·6
5. 48	32. 5	8. 40	·1124			23. 40	45 ·5	45 ·8
5. 58	33. 5	9. 47	·1130					
6. 8	33. 50	12. 5	·1126					
6. 22	35. 30	12. 32	·1129					
6. 48	35. 20	12. 45	·1141					
7. 30	33. 50	12. 49	·1137					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar.22		Mar.22						
h m	° ′ ″	h m		h m		h m	°	°
7. 52	21. 34. 55	13. 34	·1124					
8. 14	34. 20	13. 52	·1134					
8. 56	37. 0	15. 41	·1120					
9. 42	37. 20	16. 3	·1123					
11. 54	36. 50	17. 31	·1121					
12. 46	39. 0	17. 57	·1122					
13. 10	34. 20	18. 20	·1121					
13. 41	33. 50	19. 7	·1106					
14. 9	38. 35	20. 0	·1117					
14. 39	34. 30	20. 5	·1114					
15. 11	34. 0	21. 2	·1113					
15. 28	33. 25	21. 16	·1115					
	***	22. 11	·1108					
17. 22	34. 30	22. 40	·1097					
17. 37	33. 50	23. 0	·1099					
17. 46	34. 40	23. 12	·1098					
18. 9	33. 35	23. 59	·1105					
18. 43	34. 50							
19. 24	38. 0							
19. 58	37. 30							
20. 16	35. 5							
20. 24	35. 30							
20. 40	34. 20							
20. 44	34. 30							
21. 4	34. 0							
22. 14	37. 0							
22. 56	39. 30							
23. 55	39. 50							
23. 59	40. 40							
Mar.23		Mar.23		Mar.23		Mar.23		
0. 0	21. 40. 40	0. 0	·1104	0. 0	·01219	0. 40	46 ·2	46 ·6
0. 13	40. 25	3. 10	·1112	2. 16	·01175	1. 40	46 ·8	47 ·0
1. 18	41. 30	4. 41	·1110	4. 49	·01042	2. 40	47 ·2	47 ·5
3. 10	40. 0	8. 52	·1116	7. 45	·01093	3. 40	48 ·0	48 ·0
3. 36	38. 40	9. 6	·1123	13. 0	·01200	4. 40	49 ·0	48 ·7
4. 37	36. 50	9. 15	·1119	14. 35	·01262	5. 40	49 ·8	50 ·0
6. 0:	35. 10	10. 1	·1126	19. 24	·01576	6. 40	49 ·5	49 ·8
6. 56	35. 20	10. 22	·1117	22. 0	·01735	7. 40	50 ·0	51 ·0
	***	10. 39	·1121	23. 59	·01706	8. 40	50 ·1	51 ·0
8. 22	34. 50	10. 55	·1117			9. 40	49 ·5	49 ·2
8. 44	32. 30	12. 9	·1119			10. 40	49 ·0	49 ·0
9. 0	30. 40	12. 41	·1117			11. 40	48 ·5	48 ·5
9. 13	32. 20	14. 8	·1126			21. 40	42 ·3	44 ·4
9. 22	31. 0	14. 44	·1122					
9. 44	32. 50	18. 54	·1133					
10. 0	33. 0	20. 39	·1125					
10. 26	34. 20	23. 59	·1107					
10. 48	33. 50							
13. 22	36. 30							
13. 40	38. 10							
14. 10	39. 20							
14. 57	36. 50							
15. 27	37. 30							
15. 58	36. 25							
16. 39	35. 50							
16. 44	36. 20							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar.23								
h m	° ′ ″	h m		h m		h m	°	°
16. 58	21. 35. 0							
17. 40	35. 50							
17. 48	35. 0							
18. 3	34. 40							
18. 15	35. 30							
18. 39	34. 50							
18. 56	35. 0							
19. 42	33. 50							
20. 59	32. 30							
21. 16	33. 0							
21. 30	32. 50							
23. 59	42. 0							
Mar.24		Mar.24		Mar.24		Mar.24		
0. 0	21. 42. 0	0. 0	·1107	0. 15	·01697	1. 40	47 ·8	48 ·3
0. 15	43. 10		***	1. 45	·01585	3. 40	51 ·0	51 ·2
0. 52	43. 45	3. 34	·1104	2. 37	·01476	9. 40	52 ·2	52 ·7
1. 25	42. 50		***	4. 51	·01121	21. 40	46 ·7	48 ·5
1. 40	43. 5	3. 55	·1110	5. 37	·01040			
3. 58	38. 50		***	5. 48:	·01063			
4. 20	37. 40	4. 54	·1102	10. 5	·01155			
4. 52:	36. 30		***	17. 21	·01382			
6. 45	35. 30	5. 18	·1106	20. 49	·01576			
7. 32	36. 30		***	22. 45	·01634			
7. 50	36. 0	6. 7	·1103	23. 49	·01627			
8. 16	34. 20		***					
8. 42	35. 25	11. 6	·1113					
8. 55	34. 50	18. 48	·1121					
9. 11	35. 30		***					
9. 30	35. 30	20. 7	·1114					
9. 44	36. 0	20. 26	·1115					
14. 28	36. 40	21. 39	·1103					
16. 0	36. 20		***					
17. 12	35. 30	23. 59	·1102					
17. 21	36. 0							
17. 47	35. 30							
18. 13	35. 50							
18. 59	34. 35							
19. 22	34. 30							
19. 48	33. 0							
20. 45	33. 15							
21. 9	33. 50							
21. 14	33. 20							
21. 58	36. 0							
22. 9	37. 30							
22. 14	37. 5							
22. 25	37. 30							
22. 31	38. 40							
23. 12	39. 50							
23. 59	41. 5							
Mar.25		Mar.25		Mar.25		Mar.25		
0. 0	21. 41. 5	0. 0	·1102	0. 0	·01633	1. 40	48 ·3	50 ·0
0. 15	42. 0		***	3. 12	·01622	3. 40	49 ·7	51 ·4
0. 26	41. 30	1. 8	·1113	7. 21	·01452	9. 40	50 ·0	50 ·5
0. 54	42. 30	1. 46	·1110	8. 36	·01430	21. 40	44 ·0	46 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V. F. Magnet.
Mar.25		Mar.25		Mar.25				
h m	° ′ ″	h m		h m		h m	°	°
2. 32	21. 41. 45	2. 30	·1114	14. 19	·01624			
3. 29	39. 30	3. 31	·1109	18. 25	·01916			
3. 42	39. 50	3. 40	·1113		·01870			
3. 56	38. 50	4. 36	·1105	19. 21	·01898			
5. 33	35. 40	5. 2	·1110	21. 44	·01880			
5. 45	36. 20	5. 40	·1103	23. 59	·01834			
6. 0	35. 30	7. 22	·1116					
7. 26	36. 30	8. 6	·1118					
10. 45	36. 20	10. 7	·1119					
11. 15	31. 30	10. 22	·1115					
11. 25	32. 0	10. 31	·1120					
12. 0	31. 30	10. 46	·1119					
12. 41	34. 0	11. 2	·1132					
13. 14	38. 10	11. 50	·1122					
13. 37	37. 20	13. 13	·1114					
14. 10	36. 40	13. 36	·1123					
15. 27	36. 50	15. 10	·1120					
	***	18. 55	·1122					
18. 7	36. 10	20. 17	·1119					
18. 24	35. 0	22. 10	·1107					
18. 43	35. 10	23. 59	·1111					
20. 38	32. 0							
21. 15	32. 30							
22. 26	37. 0							
23. 10	38. 40							
23. 15	38. 30							
23. 59	40. 10							
Mar.26		Mar.26		Mar.26		Mar.26		
0. 0	21. 40. 10	0. 0	·1111	0. 24	·01807	1. 40	48 ·0	49 ·0
	***		***	3. 0	·01596	3. 40	50 ·8	51 ·5
0. 59	42. 20	4. 58	·1116	6. 30	·01143	9. 40	53 ·0	53 ·5
4. 28	36. 40		***	7. 21	·01078	21. 40	48 ·0	49 ·5
5. 39	35. 30	5. 23	·1111	10. 0	·01080			
6. 0	36. 0		***	14. 28	·01196			
6. 40	35. 5	5. 36	·1114	20. 5	·01515			
7. 15	36. 15		***	23. 54	·01660			
7. 39	35. 35	5. 51	·1106					
7. 54	36. 35	7. 7	·1116					
8. 12	35. 40	7. 22	·1114					
8. 39	36. 45	7. 32	·1118					
	***	8. 0	·1114					
12. 9	36. 5	8. 10	·1120					
13. 44	36. 20	8. 55	·1116					
14. 10	37. 10	9. 37	·1117					
14. 42	36. 40		***					
	***	11. 40	·1115					
19. 9	35. 30		***					
19. 24	34. 25	11. 47	·1119					
	***		***					
20. 0	34. 0	12. 24	·1117					
	***		***					
21. 5	33. 20	17. 35	·1121					
	***		***					
22. 0	34. 30	20. 19	·1118					
23. 12	38. 30		***					
23. 59	39. 30	23. 59	·1106					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar.27		Mar.27		Mar.27		Mar.27		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 39. 30	0. 0	·1106	0. 23	·01637	1. 40	49 ·8	52 ·0
1. 37	40. 30		***	2. 20	·01628	3. 40	51 ·3	52 ·0
2. 45	40. 30	3. 25	·1114	4. 35	·01523	9. 40	54 ·0	54 ·5
4. 36	37. 15		***	7. 38	·01284	21. 40	50 ·2	50 ·5
5. 28	36. 0	5. 24	·1113	9. 30	·01160			
6. 30	35. 0		***	13. 39	·01062			
7. 30	35. 30	6. 7	·1111	15. 51	·01116			
7. 37	36. 0		***	21. 35	·01434			
8. 20	35. 0	8. 0	·1117	23. 20	·01506			
11. 32	33. 50	8. 23	·1114					
12. 0	32. 0	9. 45	·1115					
12. 13	33. 30	10. 42	·1114					
12. 32	33. 0	11. 0	·1118					
13. 4	34. 0	11. 25	·1116					
14. 42	35. 30	12. 6	·1122					
15. 6	37. 0	12. 50	·1117					
15. 24	37. 0	14. 36	·1116					
15. 45	35. 20	15. 0	·1122					
16. 15	34. 40	20. 10	·1119					
16. 40	34. 50	22. 57	·1101					
16. 51	34. 0	23. 59	·1097					
17. 45	35. 45							
18. 11	35. 20							
18. 43	35. 30							
20. 51	33. 10							
21. 30:	33. 25							
22. 25	35. 20							
23. 59	40. 30							
Mar.28		Mar.28		Mar.28		Mar.28		
0. 0	21. 40. 30	0. 0	·1097	0. 0	·01508	1. 40	53 ·0	53 ·8
1. 22	43. 20		***	1. 19	·01481	3. 40	55 ·0	55 ·8
2. 10	43. 50	2. 22	·1112	2. 30	·01406	9. 40	55 ·5	56 ·0
2. 41	42. 50	2. 44	·1112	5. 25	·01055	23. 9	49 ·0	51 ·0
2. 44	43. 20	2. 48	·1105	6. 30	·00966			
2. 52	41. 20	3. 25	·1112	7. 18	{ ·00943			
3. 36	39. 50		***		{ ·01040			
	***	3. 45	·1111	8. 0	·01029			
8. 13	35. 30		***	13. 34	·01254			
9. 42	35. 40	5. 2	·1117	19. 10	·01674			
10. 9	33. 35	5. 18	·1112	20. 56	·01736			
10. 21	34. 15	5. 33	·1115	22. 8	·01740			
11. 11	31. 50	6. 6	·1110	23. 21	·01731			
12. 56	36. 20	6. 15	·1114					
13. 56	35. 0	6. 28	·1110					
14. 32	38. 20	7. 4	·1114					
15. 14	35. 40	7. 22	·1110					
16. 30	36. 30	7. 34	·1112					
16. 41	36. 0	8. 0	·1106					
17. 15	37. 0	8. 17	·1112					
17. 25	36. 35	8. 30	·1107					
17. 43	37. 20	9. 41	·1111					
18. 21	35. 25	10. 7	·1110					
	***	10. 29	·1116					
19. 22	38. 40	10. 56	·1112					
	***	11. 13	·1114					
19. 45	37. 30		***					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar.28		Mar.28						
h m	° ′ ″	h m		h m		h m	°	°
20. 32	21. 36. 30	13. 33	·1116					
20. 40	37. 30	13. 43	·1114					
	***	14. 4	·1116					
21. 39	36. 0	14. 11	·1114					
	***	14. 30	·1120					
22. 22	37. 5	15. 11	·1118					
22. 39	38. 30	18. 10	·1123					
23. 6	38. 40	18. 34	·1119					
23. 59	39. 50	19. 52	·1121					
		23. 59	·1100					
Mar.29		Mar.29		Mar.29		Mar.29		
0. 0	21. 39. 50	0. 0	·1100	0. 0	·01722	8. 4	52 ·2	53 ·0
	***	0. 56	·1103	1. 18	·01700	12. 40	52 ·3	53 ·4
0. 45	43. 30		***	3. 0	·01706	13. 40	52 ·2	53 ·3
1. 1	43. 50	6. 10	·1116	5. 9	·01656	14. 40	52 ·4	53 ·4
1. 24	43. 25		***	9. 0	·01460	15. 40	52 ·7	53 ·5
2. 24	43. 55	11. 40	·1116	13. 5	·01407	16. 40	53 ·1	53 ·9
2. 44	42. 40	14. 11	·1109	14. 40	·01452	17. 40	53 ·1	53 ·9
	***	15. 7	·1125	21. 10	·01460	18. 40	53 ·2	54 ·0
6. 40	35. 40	15. 38	·1114	23. 59	·01444	19. 40	53 ·5	54 ·2
7. 36	36. 25	16. 25	·1116			20. 40	53 ·6	54 ·2
8. 5	35. 40	16. 54	·1112			21. 40	54 ·3	54 ·1
9. 17	36. 30	17. 42	·1116			22. 40	54 ·4	54 ·6
9. 45	36. 0		***			23. 40	54 ·8	54 ·8
10. 57	37. 0	18. 22	·1114					
13. 45	36. 30		***					
14. 22	37. 0	18. 30	·1108					
14. 29	37. 50		***					
14. 46	36. 40	19. 24	·1114					
15. 2	39. 0		***					
15. 20	35. 0	19. 39	·1108					
15. 40	34. 0		***					
15. 58	35. 5	23. 59	·1095					
16. 15	34. 55							
16. 30	33. 30							
16. 55	32. 50							
17. 10	34. 40							
17. 15	34. 10							
17. 29	35. 0							
17. 46	33. 30							
18. 19	35. 0							
18. 29	34. 5							
18. 43	35. 0							
	***							
20. 1	36. 0							
	***							
21. 20	32. 10							
22. 0	33. 30							
22. 29	35. 0							
23. 12	37. 30							
23. 30	38. 0							
23. 59	40. 0							
Mar.30		Mar.30		Mar.30		Mar.30		
0. 0	21. 40. 0	0. 0	·1095	0. 42	·01422	0. 40	55 ·2	55 ·1
0. 43	41. 0	2. 23	·1095	2. 35	·01335	1. 40	55 ·9	55 ·2
			***					

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		Mar. 30		
h m	° ′ ″	h m		h m		h m	°	°
2. 14	21. 42. 30	2. 30	·1101	3. 40	·01244	2. 40	56 ·2	56 ·0
2. 22	42. 5		***		{·01145	3. 40	56 ·0	55 ·9
2. 28	43. 0	2. 47	·1093	5. 41	{·01421	4. 40	56 ·4	56 ·8
2. 45	41. 30		***		{·01388	5. 40	56 ·0	56 ·5
3. 27	41. 20	3. 26	·1101	6. 47	{·01596	6. 40	56 ·5	56 ·5
3. 34	40. 30		***	7. 45	·01569	7. 40	56 ·2	56 ·5
4. 0	40. 20	3. 45	·1099	17. 9	·01964	8. 40	56 ·2	56 ·4
4. 9	40. 35		***	19. 39	·01208	9. 40	56 ·2	56 ·4
4. 48	38. 40	3. 52	·1106		{·01997	10. 40	56 ·5	56 ·3
5. 13	38. 50		***	20. 19	{·01884	11. 40	56 ·0	56 ·2
5. 39	38. 0	4. 6	·1104	21. 18	·01916	21. 40	52 ·2	53 ·2
6. 17	37. 30		***	23. 22	·01845			
6. 36	37. 20	4. 26	·1095					
6. 53	37. 40		***					
7. 24	34. 0	5. 0	·1102					
7. 34	36. 0		***					
8. 0	29. 20	7. 2	·1101					
8. 16	32. 20	7. 22	·1116					
9. 23	35. 50	7. 45	·1097					
10. 36	34. 50	7. 53	·1102					
10. 42	34. 20	8. 10	·1101					
10. 51	34. 0	8. 19	·1113					
11. 0	33. 20	8. 31	·1112					
	***	8. 52	·1101					
12. 28	33. 55	9. 25	·1103					
13. 12	35. 40	10. 22	·1099					
13. 50	36. 0	10. 30	·1101					
14. 4	35. 25	10. 52	·1098					
	***	11. 7	·1112					
17. 27	35. 0	11. 26	·1102					
17. 34	35. 35	11. 43	·1110					
17. 46	34. 45	12. 13	·1101					
18. 1	35. 20	13. 0	·1099					
18. 11	34. 40		***					
18. 54	34. 25	13. 51	·1103					
20. 24	32. 50		***					
21. 23	33. 0	14. 6	·1101					
23. 59	37. 40		***					
		18. 40	·1114					
		19. 49	·1114					
		20. 54	·1111					
		21. 57	·1102					
		23. 36	·1097					
Mar. 31		Mar. 31		Mar. 31		Mar. 31		
0. 0	21. 37. 40	0. 7	·1096	0. 0	·01837	1. 40	54 ·1	55 ·4
0. 24	39. 0	0. 37	·1098	0. 49	·01817	3. 40	55 ·0	57 ·0
0. 45	42. 0	0. 45	·1106	2. 15	·01710	9. 40	57 ·7	59 ·6
1. 4	40. 40	0. 53	·1100	4. 54	·01386	21. 40	50 ·1	52 ·4
1. 36	41. 30	1. 24	·1096	8. 0	·01098			
2. 0	40. 35	1. 45	·1102	12. 48	·01175			
2. 15	41. 30	2. 0	·1100	14. 30	·01269			
3. 36	39. 20	2. 13	·1104	16. 29	·01455			
3. 46	39. 50	3. 0	·1102	18. 19	·01676			
4. 21	38. 0	3. 12	·1106		{·01935			
6. 52	35. 0		***	20. 8	{·01845			
11. 43	35. 30	3. 37	·1104	23. 59	·01876			
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 31		Mar. 31				Apr. 1		
h m	° ′ ″	h m		h m		h m	°	°
15. 12	21. 35. 30	3. 48	·1112	0. 50	·01836	1. 40	54 ·0	55 ·8
	***		***	4. 24	·01613	3. 40	57 ·2	57 ·2
17. 57	35. 30	4. 0	·1108	8. 53	·01257	9. 40	59 ·0	59 ·0
	***		***	9. 4	·01295	21. 40	52 ·2	53 ·7
19. 50	33. 35	6. 55	·1104	11. 0	·01289			
	***	7. 5	·1112	13. 53	·01436			
21. 40	32. 0		***	14. 30	·01457			
22. 12	32. 30	7. 13	·1106	16. 45	·01648			
23. 0	34. 25		***	20. 23	·01905			
23. 24	36. 30	7. 32	·1110	21. 40	·01843			
23. 43	36. 35		***	22. 8	·01832			
		8. 45	·1105	23. 59	·01690			
			***					
		8. 57	·1108					
			***					
		11. 30	·1102					
			***					
		11. 35	·1106					
			***					
		12. 27	·1105					
			***					
		12. 47	·1110					
			***					
		13. 0	·1106					
		17. 37	·1122					
		19. 40	·1126					
		21. 15	·1120					
		22. 40	·1104					
		23. 7	·1107					
Apr. 1		Apr. 1						
1. 27	21. 41. 0	1. 26	·1107					
1. 40	42. 0		***					
1. 52	40. 35	2. 52	·1100					
1. 59	42. 0		***					
2. 28	43. 0	4. 6	·1114					
3. 42	39. 20		***					
6. 0	36. 40	5. 10	·1108					
6. 42	36. 50		***					
7. 37	34. 20	6. 41	·1114					
8. 42	37. 5		***					
8. 59	36. 10	7. 25	·1104					
9. 30	36. 55		***					
9. 49	36. 30	9. 2	·1115					
10. 10	33. 0	9. 54	·1109					
10. 24	35. 50	10. 3	·1116					
10. 39	35. 20	10. 25	·1112					
11. 0	39. 30		***					
11. 39	32. 0	10. 40	·1122					
11. 55	33. 30		***					
12. 8	33. 20	11. 5	·1112					
12. 14	34. 0		***					
12. 40	33. 55	12. 5	·1118					
12. 48	33. 20	12. 27	·1111					
13. 0	35. 0	12. 44	·1116					
13. 10	34. 5	13. 16	·1110					
13. 29	33. 50	13. 40	·1114					

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. 1		Apr. 1						
h m	° ′ ″	h m		h m		h m	°	°
13. 44	21. 35. 0	13. 53	·1129					
14. 11	34. 55	14. 25	·1124					
15. 0	31. 20	15. 3	·1114					
15. 24	32. 0	16. 30	·1121					
15. 44	31. 0	16. 52	·1120					
15. 54	31. 20	17. 11	·1114					
16. 11	32. 40		***					
16. 42	33. 40	17. 28	·1114					
16. 53	33. 10		***					
17. 16	38. 20	17. 52	·1124					
17. 42	39. 10	19. 36	·1130					
18. 15	35. 0	21. 22	·1122					
19. 10	34. 20	22. 49	·1108					
19. 18	35. 0	23. 59	·1115					
19. 30	34. 35							
	***							
19. 42	35. 30							
19. 50	35. 10							
20. 25	35. 10							
20. 31	35. 40							
20. 46	35. 0							
21. 58	36. 40							
22. 3	36. 30							
22. 11	37. 25							
22. 15	37. 15							
22. 29	38. 15							
22. 50	38. 40							
23. 10	40. 30							
23. 22	39. 30							
23. 59	42. 0							
Apr. 2		Apr. 2		Apr. 2		Apr. 2		
0. 0	21. 42. 0	0. 0	·1115	1. 6	·01623	1. 40	54 ·2	55 ·3
0. 55	43. 0	3. 10	·1114	2. 49	·01545	3. 40	56 ·8	57 ·2
1. 39	40. 30		***	6. 15	·01140	9. 40	61 ·0	60 ·6
2. 13	40. 50	3. 25	·1119	7. 6	·01076	21. 40	54 ·3	55 ·3
2. 26	40. 0		***	8. 3	·01035			
2. 43	39. 50	3. 39	·1113	8. 15	·01060			
2. 54	39. 45		***	10. 4	·01069			
3. 22	38. 20	5. 50	·1116	10. 15	·01095			
3. 28	39. 0	7. 9	·1110	11. 21	·01103			
3. 36	38. 55	7. 39	·1113	15. 39	·01316			
3. 42	38. 0	8. 0	·1110	18. 35	·01720			
4. 11	36. 30	11. 14	·1108	21. 30	·01776			
4. 22	36. 30	15. 42	·1117	22. 34	·01820			
4. 33	35. 20	19. 12	·1123	23. 59	·01816			
5. 30	33. 30	20. 25	·1121					
6. 22	32. 30		***					
11. 37	33. 10	23. 38	·1103					
11. 53	32. 50	23. 47	·1111					
12. 59	33. 50	23. 59	·1102					
17. 20	33. 20							
18. 32	33. 20							
19. 9	32. 50							
20. 11	31. 50							
20. 40	31. 5							
21. 39	31. 30							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 2								
h m	° ′ ″	h m		h m		h m	°	°
22. 12	21. 32. 50							
22. 16	32. 30							
22. 28	33. 0							
22. 36	33. 0							
23. 2	34. 20							
23. 21	36. 0							
23. 30	36. 30							
23. 38	36. 25							
23. 45	38. 30							
	***							
23. 59	37. 30							
Apr. 3		Apr. 3		Apr. 3		Apr. 3		
0. 0	21. 37. 30	0. 0	·1102	0. 33	·01787	1. 40	57 ·0	57 ·8
0. 14	39. 0		***	2. 30	·01694	3. 40	58 ·0	59 ·6
0. 30	39. 50	1. 50	·1101	4. 49	·01321	9. 40	59 ·2	61 ·1
0. 46	40. 0	2. 12	·1112	7. 50	·01038	21. 40	53 ·1	55 ·1
1. 12	42. 30	2. 32	·1103	8. 28	·01023			
1. 27	41. 50	4. 9	·1113	8. 38	·01060			
2. 10	41. 30	4. 39	·1110	10. 39	·01128			
2. 13	43. 25	4. 47	·1114	13. 55	·01327			
2. 36	41. 20	5. 0	·1110	16. 10	·01500			
4. 47	37. 40	5. 8	·1114	20. 7	{·01982			
4. 59	36. 30	5. 23	·1104		{·01944			
5. 10	37. 0	5. 32	·1112	23. 59	·01875			
5. 27	35. 0	6. 22	·1119					
6. 22	35. 0	6. 36	·1116					
6. 57	34. 20	8. 52	·1124					
7. 54	35. 15	9. 9	·1121					
	***	10. 50	·1122					
10. 42	34. 30	11. 0	·1129					
11. 0	36. 0	14. 7	·1116					
	***	14. 23	·1117					
12. 29	33. 30	19. 36	·1126					
13. 30	35. 35	20. 30	·1123					
14. 10	34. 30	23. 59	·1104					
14. 28	34. 40							
14. 47	34. 30							
15. 29	36. 35							
16. 28	34. 30							
18. 43	33. 5							
20. 23:	31. 45							
23. 59	39. 10							
Apr. 4		Apr. 4		Apr. 4		Apr. 4		
0. 0	21. 39. 15	0. 0	·1104	0. 9	·01857	1. 40	55 ·0	57 ·1
1. 42	41. 50	0. 58	·1103	1. 6	·01820	3. 40	56 ·2	57 ·7
2. 25	41. 0	1. 51	·1112	3. 12	·01787	9. 40	57 ·8	59 ·0
2. 45	39. 10	2. 41	·1106	8. 20	·01512	23. 20	56 ·0	57 ·0
	***	3. 33	·1115	10. 0	·01476			
3. 27	38. 30		***	11. 39	·01467			
3. 45	38. 0	5. 15	·1116	14. 0	·01515			
5. 43	36. 0		***	14. 5	·01468			
7. 10	35. 40	5. 30	·1121	16. 20	·01497			
7. 25	36. 0	6. 37	·1122	20. 10	·01474			
7. 40	35. 35	7. 6	·1116	23. 56	·01363			
8. 21	33. 0	7. 22	·1117					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 4		Apr. 4						
h m	° ′ ″	h m		h m		h m	°	°
8. 44	21. 34. 10	7. 32	·1124					
8. 58	32. 40	7. 41	·1121					
9. 6	33. 15		***					
9. 42	32. 50	7. 54	·1124					
9. 45	34. 25		***					
10. 45	35. 25	8. 43	·1117					
11. 30	34. 30	12. 6	·1127					
11. 50	34. 55	13. 24	·1121					
12. 27	33. 35	13. 50	·1124					
12. 52	33. 40	17. 30	·1128					
13. 13	34. 40	19. 40	·1121					
13. 24	34. 30	22. 0	·1106					
13. 42	35. 20	23. 53	·1107					
14. 8	34. 15							
16. 10	35. 30							
16. 29	35. 0							
18. 15	34. 55							
19. 16	32. 35							
19. 26	33. 0							
19. 34	32. 30							
19. 39	32. 45							
20. 34	32. 0							
21. 54	34. 10							
23. 20	39. 0							
23. 59	40. 40							
Apr. 5		Apr. 5		Apr. 5		Apr. 5		
0. 0	21. 40. 40	0. 0	·1105	0. 0	·01360	9. 40	60 ·8	62 ·5
1. 2	42. 50	1. 22	·1098	2. 9	·01326	12. 40	60 ·2	61 ·2
2. 7	42. 50	1. 40	·1104	3. 39	·01219	13. 40	59 ·9	61 ·2
2. 33	41. 30	2. 24	·1101	5. 18	·01077	14. 40	59 ·9	61 ·0
2. 47	41. 30	6. 36	·1116	7. 30:	·01018	15. 40	59 ·8	61 ·0
3. 45	40. 0	7. 38	·1112	15. 35	·01136	16. 40	59 ·9	60 ·9
3. 57	40. 0	7. 50	·1106	16. 18	·01134	17. 40	60 ·0	61 ·0
4. 15	39. 20	8. 5	·1113	20. 15:	·01237	18. 40	60 ·2	61 ·1
4. 28	39. 20	8. 51	·1111	23. 59	·01228	19. 40	60 ·2	61 ·0
5. 27	37. 10	9. 8	·1119			20. 40	60 ·1	61 ·1
6. 7	36. 50	9. 13	·1115			21. 40	60 ·3	61 ·6
6. 11	36. 10	9. 40	·1111			22. 40	60 ·3	61 ·5
6. 28	36. 30	10. 17	·1117			23. 40	60 ·2	61 ·3
7. 10	35. 30	10. 34	·1113					
7. 27	36. 30	10. 52	·1116					
7. 58	34. 0	11. 25	·1112					
8. 18	34. 50	12. 10	·1111					
8. 28	33. 50	12. 38	·1114					
8. 57	34. 50	12. 57	·1110					
9. 5	32. 45	13. 30	·1111					
9. 14	32. 50	14. 24	·1102					
9. 23	32. 20	15. 39	·1101					
9. 43	34. 15	16. 19	·1107					
10. 19	32. 30	16. 24	·1102					
10. 41	32. 30	18. 26	·1101					
10. 53	33. 5	18. 39	·1103					
11. 9	32. 0	20. 30	·1101					
11. 56	33. 0	21. 51	·1092					
12. 29	30. 40		***					
13. 6	30. 35	23. 59	·1096					
13. 29	32. 35							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 5								
h m	° ′ ″	h m		h m		h m	°	°
14. 3	21. 30. 30							
14. 23	31. 30							
14. 45	31. 10							
15. 24	33. 30							
15. 56	38. 10							
16. 39	32. 50							
17. 57	32. 40							
20. 14	31. 0							
21. 14	32. 0							
23. 59	39. 50							
Apr. 6		Apr. 6		Apr. 6		Apr. 6		
0. 0	21. 39. 50	0. 0	·1096	0. 11	·01236	0. 40	60 ·0	61 ·0
2. 52:	41. 5		***	2. 4	·01255	1. 40	60 ·2	61 ·3
4. 11	38. 30	1. 46	·1098	3. 21	·01220	2. 40	60 ·8	61 ·6
6. 32:	34. 20		***	4. 15	·01149	3. 40	61 ·2	62 ·2
	***	4. 52	·1091	5. 21	·01018	4. 40	61 ·5	62 ·5
8. 35	33. 40		***		·01120	5. 40	62 ·5	63 ·0
9. 20	35. 0	5. 10	·1098	6. 51	·01064	6. 40	62 ·3	64 ·0
9. 44	33. 0		***	8. 0	·01055	7. 40	62 ·2	63 ·0
10. 11	35. 30	7. 2	·1104	10. 9	·01117	8. 40		
10. 22	34. 30		***	11. 6	·01113	9. 40	61 ·4	62 ·8
10. 42	34. 0	7. 27	·1102	13. 15	·01300	10. 40	61 ·0	62 ·0
11. 12	29. 25		***	15. 5	·01542	11. 40	60 ·0	61 ·7
11. 27	29. 20	7. 50	·1106	17. 37	·01857	21. 40	53 ·1	55 ·2
11. 31	30. 50	8. 22	·1104		·01733			
11. 52	34. 0	8. 53	·1106	19. 0	·01781			
	***	9. 27	·1101	21. 19	·01736			
13. 1	32. 45	10. 41	·1120	22. 45	·01700			
	***	11. 9	·1105	23. 46	·01562			
14. 15	34. 50	12. 23	·1106	23. 59	·01554			
	***	12. 54	·1117					
15. 44	32. 0	13. 39	·1114					
	***	14. 29	·1118					
16. 58	34. 0	15. 17	·1114					
	***	15. 54	·1118					
18. 24	32. 20	16. 54	·1114					
	***	20. 0	·1118					
19. 22	32. 50	23. 48	·1103					
20. 42	32. 20							
23. 13	37. 0							
23. 59	39. 35							
Apr. 7		Apr. 7		Apr. 7		Apr. 7		
0. 0	21. 39. 35	1. 0	·1107	1. 15	·01541	1. 40	55 ·3	56 ·8
1. 34	44. 20	4. 32	·1099	1. 46	·01508	3. 40	57 ·0	58 ·7
2. 39	44. 0	6. 40	·1111	1. 54	·01463	9. 40	59 ·1	60 ·2
2. 54	43. 40	7. 0	·1101	2. 35	·01387	21. 40	54 ·6	55 ·6
3. 10	44. 10	8. 6	·1114	3. 25	·01295			
4. 30	40. 0	8. 12	·1105	4. 58	·01003			
4. 54	40. 0	8. 52	·1104		·01061			
5. 18	38. 30	9. 7	·1110	7. 8	·01016			
6. 40	37. 0	9. 41	·1106	9. 6	·01020			
7. 14	32. 40	11. 15	·1111	10. 51	·01133			
7. 30	33. 30	11. 24	·1115	15. 30	·01524			
7. 52	29. 10	11. 44	·1112	19. 5	·01753			
8. 12	33. 10	12. 0	·1119	21. 15	·01840			
9. 10	35. 55	12. 39	·1111	21. 38	·01777			

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. 7		Apr. 7		Apr. 7				
h m	° ′ ″	h m		h m		h m	°	°
9. 43	21. 35. 10	16. 11	·1116	23. 59	·01637			
10. 0	36. 5	17. 27	·1111					
10. 23	35. 40	19. 30	·1120					
11. 27	36. 0	21. 48	·1103					
11. 42	35. 5	23. 0	·1090					
11. 59	35. 30	23. 24	·1089					
12. 24	34. 0	23. 59	·1092					
13. 0	35. 30							
15. 9	35. 30							
15. 15	36. 20							
15. 22	35. 20							
16. 15	35. 25							
16. 52	34. 50							
17. 45	35. 50							
	***							
20. 29	31. 0							
22. 24	34. 30							
23. 59	42. 30							
Apr. 8		Apr. 8		Apr. 8		Apr. 8		
0. 0	21. 42. 30	0. 0	·1092	0. 19	·01608	1. 40	57 ·8	58 ·8
0. 54	44. 0	4. 18	·1111	0. 53	·01594	3. 40	59 ·8	61 ·3
1. 0	45. 0	4. 41	·1105	1. 6	·01520	9. 40	60 ·1	60 ·8
1. 42	45. 0	5. 32	·1108	2. 10	·01407	21. 40	53 ·6	54 ·8
3. 24	40. 0	6. 10	·1104	4. 14	{·01033			
4. 30	37. 35	6. 55	·1108		{·01083			
6. 32	35. 10		***	5. 50	·01040			
7. 28	35. 30	11. 2	·1110	8. 5	·01116			
7. 45	34. 35		***	10. 19	·01214			
9. 26	36. 20	11. 13	·1114	13. 55	·01569			
9. 45	32. 30		***	16. 39	·01794			
	***	11. 36	·1109	19. 24	·01978			
14. 28	35. 30		***	22. 0	·01940			
14. 36	34. 20	12. 6	·1112	23. 53	·01849			
14. 46	36. 0		***					
15. 0	35. 20	12. 17	·1109					
15. 12	36. 40		***					
15. 27	36. 50	13. 13	·1114					
16. 22	33. 30		***					
	***	13. 24	·1118					
17. 11	34. 5		***					
17. 22	32. 50	14. 40	·1119					
	***	14. 45	·1114					
17. 36	31. 25	14. 55	·1118					
17. 43	32. 30	15. 0	·1120					
	***	15. 12	·1115					
18. 45	32. 0	15. 23	·1122					
	***	15. 30	·1117					
19. 39	29. 30	15. 39	·1122					
21. 28	35. 0	16. 8	·1120					
22. 44	40. 35		***					
		17. 17	·1124					
			***					
		17. 40	·1118					
		18. 6	·1123					
		19. 45	·1114					
			***					
		20. 7	·1115					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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	° ′ ″	Apr. 8 h m		h m		Apr. 9 h m	°	°
		21. 54	·1099					
			***					
		22. 51	·1102					
Apr. 9		Apr. 9		Apr. 9		Apr. 9		
0. 0	21. 40. 30	0. 13	·1102	0. 0	·01855	1. 40	55 ·3	56 ·7
0. 53	43. 0		***	2. 19	·01718	3. 40	57 ·2	58 ·6
1. 42	42. 50	4. 55	·1123	3. 50	·01546	9. 40	60 ·6	61 ·0
3. 10	39. 20		***	6. 10	·01202	23. 22	51 ·8	53 ·2
	***	6. 28	·1116	8. 0	·00990			
5. 31	35. 0		***	8. 48	·00957			
8. 24	34. 0	7. 0	·1119	10. 36	·00954			
	***		***	13. 33	·01115			
14. 5	36. 10	8. 7	·1113	15. 15	·01264			
14. 16	40. 30		***	20. 5	{·01927			
15. 14	34. 40	8. 13	·1116		{·01895			
	***		***	22. 10	·01900			
15. 44	34. 25	9. 16	·1128	23. 36	·01805			
	***	9. 30	·1120					
16. 13	35. 0	9. 45	·1126					
16. 24	33. 30	13. 39	·1114					
16. 31	34. 40		***					
16. 42	34. 20	14. 10	·1122					
16. 45	35. 10		***					
16. 49	34. 0	14. 32	·1116					
17. 0	35. 50		***					
	***	14. 43	·1124					
18. 24	36. 0		***					
18. 53	38. 10	15. 24	·1119					
19. 15	34. 15	15. 52	·1120					
19. 20	35. 0	16. 23	·1126					
19. 44	32. 30		***					
20. 0	32. 30	17. 13	·1116					
20. 25	31. 30	17. 34	·1129					
21. 3	31. 30	18. 40	·1117					
22. 52	34. 10	18. 55	·1121					
23. 59	38. 0	19. 43	·1118					
		20. 6	·1121					
		21. 39	·1105					
		22. 6	·1103					
		22. 48	·1097					
		23. 59	·1101					
Apr. 10		Apr. 10		Apr. 10		Apr. 10		
0. 0	21. 38. 0	0. 0	·1101	0. 0	·01794	8. 2	57 ·0	57 ·8
	***	0. 7	·1103	2. 25	·01735	21. 40	53 ·6	55 ·2
1. 40:	40. 50	1. 15	·1095	3. 41	·01656			
5. 0	35. 20		***	7. 30	·01180			
5. 36	33. 55	3. 24	·1111	8. 16	·01117			
6. 56	32. 30		***	9. 10	·01068			
7. 44	32. 20	4. 7	·1110	11. 0	·01060			
8. 3	29. 30	4. 32	·1106	15. 12	·01194			
8. 54	32. 30	5. 0	·1109	20. 51	·01556			
10. 0	33. 20	5. 24	·1104	23. 59	·01695			
	***	6. 17	·1114					
11. 12	33. 0	6. 38	·1112					
11. 30	34. 0	7. 23	·1114					
12. 52	33. 45	7. 42	·1113					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 10		Apr. 10						
h m	° ′ ″	h m		h m		h m	°	°
13. 22	21. 37. 0	7. 54	·1109					
13. 44	35. 30	10. 9	·1116					
14. 12	34. 40		***					
14. 22	35. 0	10. 17	·1121					
14. 42	33. 30		***					
15. 0	36. 50	10. 34	·1111					
15. 30	32. 30	10. 50	·1118					
16. 20	36. 0		***					
16. 43	35. 0	11. 33	·1115					
17. 28	35. 10	12. 20	·1122					
17. 43	37. 35	12. 30	·1118					
18. 9	37. 30	14. 27	·1136					
18. 38	34. 30	15. 0	·1122					
19. 5	33. 50	16. 5	·1112					
19. 18	32. 30	17. 10	·1121					
19. 59	32. 30	17. 35	·1116					
20. 14	31. 0	18. 15	·1124					
20. 30	32. 40	18. 28	·1120					
20. 43	32. 10	18. 45	·1122					
20. 56	34. 0	20. 10	·1118					
21. 27	35. 30	20. 26	·1122					
22. 13	39. 10	21. 24	·1109					
22. 43	38. 40	21. 39	·1111					
23. 59	41. 30	23. 59	·1091					
Apr. 11		Apr. 11		Apr. 11		Apr. 11		
0. 0	21. 41. 30	0. 0	·1091	0. 54	·01723	1. 40	53 ·6	54 ·8
2. 31	41. 30	2. 54	·1103	3. 45	·01846*	3. 40	54 ·0	54 ·8
	***	3. 7	·1100	4. 18	·01724	9. 40	51 ·9	51 ·6
4. 15	39. 0	3. 24	·1104	6. 49	·01640	22. 6	45 ·0	47 ·5
4. 43	39. 30	4. 6	·1093	7. 50	·01684			
5. 39	36. 50	4. 29	·1099	8. 39	·01680			
6. 50	35. 30	4. 54	·1098	10. 36	·01722			
7. 13	31. 0	5. 40	·1104	11. 50	·01805			
7. 24	32. 0	6. 28	·1101	12. 26	·01844			
7. 36	31. 0	7. 13	·1114		·01780			
7. 44	31. 50	7. 55	·1087	15. 30	·01822			
7. 55	30. 30	8. 21	·1100	15. 41	·01791			
8. 13	33. 20	10. 12	·1108	17. 0	·01778			
9. 16	36. 30	11. 11	·1106	17. 36	·01754			
9. 30	35. 5	11. 26	·1114	21. 24	·01720			
10. 22	36. 20		***	22. 22	·01736			
10. 43	36. 0	14. 0	·1115					
11. 12	36. 30		***					
11. 55	34. 40	15. 27	·1122					
	***		***					
16. 12	36. 20	15. 30	·1118					
16. 28	41. 20		***					
16. 52	42. 45	15. 39	·1122					
17. 29	38. 40	15. 54	·1119					
18. 21	47. 0	16. 2	·1122					
18. 47	49. 35	16. 21	·1122					
19. 2	48. 20	16. 38	·1115					
19. 10	48. 20	17. 25	·1132					
19. 17	46. 0	18. 9	·1118					
	***	18. 40	·1116					
20. 23	39. 20	19. 0	·1124					
	***	19. 30	·1118					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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. 11		Apr. 11						
h m	° ′ ″	h m		h m		h m	°	°
21. 12	21. 48. 30	19. 42	·1120					
21. 31	44. 30	20. 47	·1082					
21. 57	42. 30	21. 8	·1103					
	***	21. 17	·1102					
23. 6	44. 30	23. 2	·1086					
23. 41	42. 45	23. 27	·1074					
23. 52	43. 30	23. 59	·1084					
Apr. 12		Apr. 12		Apr. 12		Apr. 12		
0. 11	21. 47. 30	0. 0	·1084	0. 0	·01715	7. 23	49 ·4	52 ·4
	***		***	3. 6	·01653	12. 40	47 ·3	49 ·7
1. 43	51. 30	0. 11	·1086	4. 0	·01534	13. 40	47 ·0	49 ·5
1. 52	49. 0		***	6. 18	·01515	14. 40	46 ·7	49 ·2
2. 4	51. 50	0. 17	·1079	8. 43	·01383	15. 40	46 ·6	49 ·0
2. 11	49. 40	1. 5	·1077	9. 18	·01377	16. 40	46 ·6	49 ·1
2. 27	50. 30	1. 40	·1092	10. 0	·01400	17. 40	46 ·3	48 ·8
2. 41	52. 5	1. 49	·1085	11. 22	·01360	18. 40	45 ·8	48 ·5
2. 44	49. 30	2. 5	·1096	14. 39	·01628	19. 40	45 ·7	48 ·4
2. 51	48. 30	2. 10	·1092	19. 40	·01854	20. 40	45 ·2	48 ·0
3. 2	51. 5	2. 20	·1098		·01776	21. 40	46 ·1	47 ·7
3. 15	46. 30	2. 41	·1104	23. 19	·01790	22. 40	45 ·2	47 ·7
3. 37	50. 50	2. 46	·1098			23. 40	45 ·8	47 ·9
3. 44	48. 30	3. 0	·1115					
4. 0	48. 20	3. 9	·1115					
4. 9	49. 0	3. 14	·1107					
4. 16	48. 30	3. 27	·1121					
4. 24	48. 45		***					
4. 39	47. 0	3. 35	·1118					
4. 48	48. 55		***					
5. 41	41. 20.	3. 41	·1110					
5. 46	41. 30		***					
6. 30	38. 0	3. 45	·1115					
6. 40	38. 30		***					
7. 0	36. 20	4. 9	·1110					
7. 12	35. 40		***					
7. 29	27. 30	4. 32	·1111					
7. 40	29. 0		***					
7. 46	27. 30	4. 46	·1117					
8. 17	32. 25		***					
8. 30	38. 30	5. 16	·1100					
8. 43	33. 30	5. 37	·1108					
8. 50	38. 50	5. 51	·1104					
8. 56	37. 30	6. 0	·1114					
9. 2	38. 40	6. 26	·1108					
9. 28	32. 45	6. 38	·1114					
9. 39	33. 5	6. 46	·1111					
9. 48	36. 30	7. 15	·1118					
10. 11	27. 0	7. 28	·1106					
10. 16	29. 20	7. 32	·1117					
10. 24	27. 30	7. 52	·1118					
11. 12	30. 50	8. 17	·1114					
11. 18	32. 0	8. 25	·1121					
11. 36	29. 0	8. 39	·1108					
11. 48	29. 10	8. 43	·1128					
12. 15	33. 0	8. 55	·1110					
12. 39	30. 30	8. 58	·1118					
12. 45	31. 10	9. 25	·1114					
13. 18	30. 10	9. 32	·1118					

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

April 8. The times, both for the Declination and Horizontal Force Traces, of this day are liable to some uncertainty.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 12		Apr. 12						
h m	° ′ ″	h m		h m		h m	°	°
13. 45	21. 31. 30	9. 40	·1115					
13. 59	31. 0	9. 54	·1116					
14. 40	32. 10	9. 58	·1122					
15. 0	38. 0	10. 11	·1107					
15. 11	38. 40	10. 28	·1146					
15. 22	38. 0	10. 41	·1142					
16. 2	33. 15	10. 51	·1152					
	***	11. 3	·1131					
16. 54	32. 45	11. 9	·1131					
	***	11. 23	·1118					
17. 22	33. 30	11. 30	·1122					
17. 50	32. 50	12. 25	·1119					
	***	12. 41	·1123					
18. 15	33. 30	14. 45	·1119					
	***	15. 0	·1110					
18. 48	32. 15	15. 22	·1121					
	***	15. 48	·1124					
19. 44	33. 50		***					
	***	17. 12	·1122					
20. 4	33. 30	17. 30	·1126					
	***	18. 8	·1120					
23. 30	40. 0	19. 9	·1126					
23. 59	40. 35	19. 52	·1117					
		20. 7	·1119					
		20. 51	·1115					
		21. 24	·1101					
		23. 35	·1101					
Apr. 13		Apr. 13		Apr. 13		Apr. 13		
0. 0	21. 40. 35	0. 43	·1105	0. 0	·01360	0. 40	46 ·1	48 ·2
0. 40	43. 30	1. 45	·1106	2. 19	·01360	1. 40	47 ·1	49 ·0
1. 4	44. 40	2. 18	·1118	5. 10	·01206	2. 40	48 ·1	49 ·2
1. 52	43. 20	2. 37	·1111	8. 37	·01021	3. 40	47 ·9	50 ·1
2. 29	45. 0	2. 45	·1126	8. 53	·00973	4. 40	50 ·5	51 ·5
2. 43	43. 0	3. 6	·1115	10. 52	·00949	5. 40	50 ·5	51 ·5
2. 50	45. 0	3. 27	·1120	11. 9	·00935	6. 40	50 ·6	51 ·2
3. 11	43. 30	3. 40	·1112	12. 54	·00976	7. 40	50 ·8	51 ·5
3. 15	43. 55	4. 6	·1131	18. 10	{·01235	8. 40	50 ·8	51 ·3
3. 44	42. 20	4. 52	·1126		{·01166	9. 40	50 ·2	51 ·8
4. 10	37. 25	5. 0	·1117	19. 11	·01205	10. 40	50 ·2	51 ·8
4. 47	40. 30	5. 29	·1125	21. 53	·01175	11. 40	50 ·0	51 ·7
5. 0	39. 30	5. 58	·1126	23. 59	·01086	21. 40	45 ·7	47 ·3
5. 12	39. 35	6. 7	·1123					
5. 29	38. 0	6. 13	·1128					
	***	6. 36	·1129					
5. 59	38. 0	6. 43	·1124					
6. 12	37. 10	6. 49	·1130					
6. 17	37. 30	6. 57	·1124					
6. 49	34. 55	7. 7	·1128					
7. 0	36. 0	7. 32	·1114					
7. 10	35. 30	8. 0	·1128					
7. 15	36. 0	8. 20	·1114					
7. 59	29. 30	8. 37	·1139					
8. 11	33. 10	8. 46	·1122					
8. 21	32. 5	9. 0	·1122					
8. 36	28. 0	9. 8	·1116					
8. 50	36. 40	9. 27	·1113					
9. 7	33. 20	9. 39	·1120					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 13		Apr. 13						
h m	° ′ ″	h m		h m		h m	°	°
9. 12	21. 33. 50	10. 0	·1112					
9. 38	29. 40	10. 24	·1126					
9. 52	31. 40	10. 31	·1122					
10. 14	26. 35	10. 57	·1118					
10. 30	28. 0	11. 16	·1128					
10. 45	23. 35	11. 35	·1120					
10. 58	26. 30	12. 7	·1117					
11. 10	20. 30	17. 35	·1133					
11. 37	28. 30	20. 12	·1130					
12. 30	31. 50	23. 46	·1111					
12. 49	31. 35							
13. 14	32. 0							
13. 24	32. 55							
13. 42	32. 40							
13. 57	33. 20							
14. 27	32. 50							
16. 0	34. 0							
17. 30	33. 20							
17. 40	33. 40							
18. 43	32. 30							
18. 53	33. 30							
19. 5	32. 50							
	***							
19. 32	32. 30							
	***							
21. 12	32. 40							
21. 57	34. 45							
23. 59	39. 40							
Apr. 14		Apr. 14		Apr. 14		Apr. 14		
0. 0	21. 39. 40	0. 0	·1112	1. 0	·01037	1. 40	49 ·0	50 ·2
	***	2. 0	·1116	2. 40	·00936	3. 40	51 ·3	53 ·2
2. 30	42. 30	2. 45	·1112	4. 0	·00822	9. 40	54 ·1	54 ·2
2. 40	41. 20	4. 21	·1119	6. 26	·00837	21. 40	45 ·6	47 ·3
5. 41:	34. 5	5. 12	·1116	8. 21	·00824			
7. 30	33. 40	7. 7	·1111	11. 35	·00909			
7. 45	33. 0	8. 0	·1116	15. 30	·01167			
8. 10	33. 20	8. 12	·1117	20. 21	·01694			
8. 24	34. 0	8. 25	·1112	22. 0	·01798			
8. 36	33. 0	15. 14	·1126	23. 59	·01729			
8. 43	33. 30	18. 39	·1137					
10. 0	32. 45	19. 51	·1135					
10. 13	33. 0		***					
10. 38	32. 50	23. 0	·1114					
10. 56	33. 30	23. 59	·1114					
11. 17	32. 50							
12. 30	34. 40							
13. 13	34. 30							
14. 45	36. 35							
15. 21	38. 0							
15. 58	37. 0							
17. 0	37. 5							
18. 43	35. 0							
19. 5	33. 50							
20. 19	32. 35							
20. 45	31. 30							
22. 45	35. 30							
23. 59	39. 40							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 15		Apr. 15		Apr. 15		Apr. 15		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 39. 40	0. 0	·1114	0. 39	·01706	1. 40	49 ·8	50 ·8
1. 9	42. 30	1. 51	·1112	3. 0	·01515	3. 40	52 ·3	52 ·8
1. 28	42. 15	2. 40	·1121	5. 24	·01197	9. 40	54 ·1	54 ·8
2. 13	42. 30	3. 32	·1119	8. 0	·00984	21. 40	45 ·2	47 ·7
3. 44	39. 0	3. 58	·1129	8. 55	·00955			
3. 55	39. 55		***	10. 11	·00974			
4. 19	38. 40	4. 12	·1121	15. 50	·01376			
5. 4	37. 30	5. 6	·1122	18. 54	·01700			
5. 15	36. 30	5. 13	·1113	20. 28	·01816			
6. 30	34. 10	5. 27	·1117	22. 6	·01812			
7. 45	34. 45	5. 41	·1116	23. 38	·01823			
12. 41	34. 35	6. 10	·1122					
13. 2	35. 35	6. 32	·1117					
13. 48	35. 0		***					
13. 52	37. 35	8. 20	·1129					
14. 26	36. 30		***					
14. 45	34. 30	8. 53	·1122					
15. 14	37. 50		***					
15. 47	34. 20	9. 7	·1126					
16. 1	34. 30		***					
16. 27	33. 30	9. 40	·1118					
16. 39	34. 30		***					
17. 0	33. 50	10. 5	·1123					
	***	13. 26	·1128					
17. 43	34. 25	14. 43	·1134					
	***		***					
18. 39	32. 50	15. 8	·1128					
	***	15. 15	·1135					
18. 45	33. 30	16. 26	·1132					
	***	16. 52	·1135					
19. 10	33. 0	17. 41	·1134					
19. 21	33. 35	18. 38	·1141					
19. 30	33. 0	19. 24	·1135					
20. 15	36. 0	19. 53	·1123					
20. 27	37. 50		***					
20. 41	36. 15	21. 2	·1125					
21. 13	34. 20		***					
21. 59	34. 0	22. 45	·1114					
23. 22	37. 30	23. 59	·1114					
23. 29	37. 20							
23. 45	38. 30							
Apr. 16		Apr. 16		Apr. 16		Apr. 16		
0. 19	21. 39. 10	0. 0	·1114	0. 0	·01700	1. 40	49 ·0	50 ·6
1. 15	40. 50		***	2. 4	·01583	3. 40	52 ·0	52 ·8
1. 25	40. 30	5. 22	·1126	3. 24	·01444	9. 46	55 ·0	56 ·4
1. 43	40. 50		***	5. 10	·01174	21. 40	47 ·0	48 ·6
2. 0	39. 35	6. 15	·1120	8. 0	·00886			
3. 40	37. 30	7. 39	·1123	8. 55	·00849			
6. 26	34. 30		***	12. 54	·00935			
8. 22	34. 20	9. 58	·1116	16. 6	·01180			
8. 48	33. 50		***	20. 30	·01637			
9. 2	34. 20	10. 55	·1118	21. 9	·01677			
9. 34	34. 0		***	21. 45	·01678			
10. 3	32. 25	12. 7	·1115	23. 59	·01463			
10. 26	32. 20	14. 0	·1122					
10. 58	33. 30	19. 25	·1133					
12. 25	35. 20	23. 6	·1122					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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						
h m	° ′ ″	h m		h m		h m	°	°
13. 0	21. 34. 40	23. 59	·1114					
13. 22	36. 30							
14. 13	34. 30							
16. 10	34. 20							
16. 24	35. 0							
19. 32	32. 10							
19. 58	32. 15							
20. 11	31. 30							
20. 30	32. 50							
20. 45	32. 35							
20. 58	33. 20							
21. 26	33. 30							
23. 20	36. 30							
23. 40	38. 0							
23. 59	38. 30							
Apr. 17		Apr. 17		Apr. 17		Apr. 17		
0. 0	21. 38. 30	0. 0	·1114	1. 0	·01385	1. 40	51 ·0	52 ·6
1. 40	40. 5		***	3. 46	·01074	3. 40	54 ·2	54 ·8
1. 54	39. 40	3. 36	·1118		·01454	9. 40	59 ·5	58 ·5
2. 23	40. 0		***	6. 25	·01117	21. 40	53 ·5	54 ·7
3. 0	38. 0	4. 54	·1112	13. 34	·01141			
4. 41	37. 0		***	17. 0	·01323			
7. 15	34. 30	5. 6	·1114	21. 5	·01656			
	***	5. 31	·1112	22. 53	·01681			
11. 29	34. 0	8. 36	·1117					
11. 35	34. 40	8. 44	·1114					
11. 46	33. 50	8. 52	·1118					
11. 58	34. 20	9. 2	·1114					
12. 29	33. 0	9. 10	·1116					
12. 42	33. 45	9. 47	·1112					
12. 54	33. 5	10. 0	·1117					
13. 13	34. 0	10. 11	·1111					
13. 42	33. 20	10. 36	·1116					
14. 19	33. 25	11. 5	·1110					
14. 27	34. 0	11. 52	·1118					
14. 44	33. 0	12. 30	·1116					
16. 0	33. 35	13. 0	·1122					
16. 57	32. 0	13. 8	·1127					
	***	13. 24	·1128					
17. 36	33. 30	14. 20	·1114					
17. 43	33. 10	15. 36	·1114					
	***	16. 52	·1119					
20. 35	33. 0	17. 35	·1116					
20. 46	32. 30	19. 7	·1120					
21. 20	32. 35	21. 0	·1114					
21. 36	33. 35	21. 22	·1111					
	***	21. 40	·1103					
23. 43	34. 55		***					
		22. 22	·1107					
			***					
		23. 59	·1102					
Apr. 18		Apr. 18		Apr. 18		Apr. 18		
0. 23	21. 37. 20	0. 0	·1102	0. 0	·01812	1. 40	59 ·1	59 ·8
1. 24	38. 40	0. 27	·1100	1. 15	·01644	3. 40	62 ·5	62 ·8
1. 59	38. 0	1. 6	·1104	3. 6	·01333	9. 40	64 ·8	66 ·2
2. 12	38. 30		***		·01363	23. 0	59 ·0	60 ·0
	***							

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

April 17 and 18. The times are liable to an error of a few minutes.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr.18		Apr.18		Apr.18				
h m	° ′ ″	h m		h m		h m	°	°
3. 0	21. 36. 50	3. 10	·1082	4. 38	{·01346			
3. 9	37. 20		***		{·01405			
3. 17	36. 40	3. 37	·1060	8. 35	·01426			
3. 36	37. 0		***	13. 35	·01697			
3. 52	36. 20	3. 50	·1063	17. 26	·02081			
4. 14	36. 30	4. 17	·1055	19. 35	·02057			
5. 23	35. 0	6. 7	·1064	23. 0	·02061			
6. 42	33. 0	6. 16	·1058					
7. 25	33. 50	6. 26	·1066					
7. 45	32. 50	6. 38	·1062					
7. 57	33. 30		***					
8. 23	32. 30	6. 43	·1067					
8. 28	33. 0		***					
9. 20	33. 30	7. 0	·1063					
9. 37	32. 40		***					
9. 54	33. 40	7. 22	·1067					
10. 30	34. 35		***					
16. 45	34. 30	7. 54	·1063					
19. 48	32. 30		***					
20. 15	31. 40	8. 17	·1067					
21. 10	31. 55		***					
23. 10	36. 30	8. 33	·1065					
23. 59	37. 30	11. 0	·1076					
		19. 39	·1094					
		23. 59	·1072					
Apr.19		Apr.19		Apr.19		Apr.19		
0. 0	21. 37. 30	0. 0	·1072	0. 0	·01982	9. 50	64 ·5	66 ·0
0. 34	38. 30		***	2. 21	·01755	12. 40	62 ·0	63 ·0
1. 1	38. 30	4. 58	·1074	5. 22	·01291	13. 40	61 ·3	62 ·3
2. 8	38. 45		***	7. 0	·01236	14. 40	60 ·8	61 ·5
7. 10	33. 30	6. 11	·1068	7. 46	·01282	15. 40	60 ·2	60 ·6
8. 41	34. 0	6. 38	·1075	8. 54	·01356	16. 40	59 ·8	60 ·4
9. 27	33. 10	6. 47	·1071	15. 20	{·02096	17. 40	59 ·4	60 ·0
9. 54	31. 20	7. 6	·1074		{·02038	18. 40	59 ·0	59 ·6
10. 29	32. 30		***	15. 37	{·02067	19. 40	58 ·5	59 ·0
10. 52	32. 30	9. 47	·1064		{·01935	20. 40	58 ·5	58 ·6
11. 6	33. 30	11. 0	·1072	18. 49	{·02017	21. 40	58 ·5	58 ·5
12. 16	34. 20	11. 45	·1075		{·01463	22. 40	59 ·1	59 ·2
13. 8	34. 50	12. 2	·1079	20. 35	·01615	23. 40	59 ·5	60 ·2
13. 53	34. 30	16. 51	·1081	23. 59	·01496			
14. 10	34. 50	19. 21	·1087					
14. 32	34. 30	21. 34	·1074					
15. 52	34. 5	23. 59	·1067					
16. 23	33. 50							
17. 21	33. 50							
18. 55	33. 5							
	(†)							
21. 40	33. 10*							
Apr.20		Apr.20		Apr.20		Apr.20		
0. 0	21. 38. 0	0. 0	·1067	0. 45	·01415	0. 40	60 ·3	61 ·4
1. 0	38. 30		***	3. 20	·01193	1. 40	61 ·3	62 ·2
2. 38	38. 40	1. 56	·1069	5. 5	·01215	2. 40	62 ·6	63 ·7
3. 26	37. 40		***	8. 21	·01433	3. 40	63 ·5	65 ·2
6. 50	33. 35	2. 50	·1076	10. 54	·01530	4. 40	64 ·2	66 ·2
	***		***	15. 37	·02087	5. 40	65 ·0	66 ·0
11. 26	35. 30	3. 45	·1073	17. 0	·02041	6. 40	65 ·2	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		Apr.20		Apr.20		Apr.20		
h m	° ′ ″	h m		h m		h m	°	°
16. 48	21. 36. 0	5. 52	·1072	23. 59	·01932	7. 40	65 ·0	67 ·0
	***		***			8. 40	64 ·7	66 ·8
20. 7	32. 10	6. 0	·1054			9. 40	63 ·5	65 ·7
20. 48	32. 20		***			10. 40	62 ·8	64 ·8
21. 36	33. 40	9. 25	·1058			11. 40	62 ·0	64 ·8
21. 57	35. 0		***			21. 40	53 ·6	55 ·2
23. 59	39. 25	15. 54	·1079					
			***					
		19. 33	·1088					
			***					
		22. 20	·1078					
			***					
		23. 59	·1080					
Apr.21		Apr.21		Apr.21		Apr.21		
0. 0	21. 39. 25	0. 0	·1080	0. 37	·01920	1. 40	55 ·4	56 ·9
	***		***	3. 10	·01783	3. 40	57 ·0	58 ·8
2. 10	41. 45	2. 45	·1076	5. 15	·01605	9. 40	58 ·2	61 ·5
3. 36	38. 20		***	10. 6	·01584	21. 40	52 ·8	55 ·2
	***	3. 9	·1077	11. 24	·01626			
5. 8	36. 50		***	16. 18	·01963			
5. 12	37. 15	3. 30	·1072	17. 20	·01995			
	***		***	20. 35	·01980			
7. 37	35. 0	3. 45	·1075	23. 31	·01896			
8. 0	32. 30		***					
8. 9	33. 25	4. 22	·1074					
8. 18	32. 50	4. 30	·1067					
	***	4. 52	·1069					
8. 47	34. 30	5. 8	·1076					
9. 10	32. 50	5. 30	·1078					
10. 27	33. 40	6. 13	·1074					
10. 39	34. 35	7. 14	·1086					
10. 56	34. 35	7. 42	·1075					
11. 9	35. 30	7. 48	·1081					
12. 1	34. 25	8. 7	·1072					
13. 8	26. 20	8. 29	·1074					
14. 33	36. 0	8. 47	·1070					
15. 29	36. 30	9. 7	·1075					
15. 46	35. 0	10. 10	·1080					
16. 13	35. 30	10. 22	·1084					
17. 13	34. 50	10. 38	·1079					
18. 15	35. 0	10. 46	·1083					
	***	11. 41	·1082					
20. 20	33. 40	11. 58	·1092					
	***	12. 24	·1091					
21. 31	35. 30	12. 54	·1094					
23. 43	42. 20	13. 39	·1079					
		15. 23	·1088					
		15. 36	·1085					
		19. 10	·1091					
		22. 30	·1089					
		23. 59	·1086					
Apr.22		Apr.22		Apr.22		Apr.22		
0. 15	21. 41. 30	0. 0	·1086	0. 0	·01902	1. 40	54 ·0	56 ·0
	***	0. 18	·1088	1. 0	·01871	3. 40	55 ·4	57 ·0
1. 25	44. 55	0. 41	·1085	2. 25	·01839	9. 40	55 ·4	57 ·4
1. 40	43. 50	1. 9	·1089	6. 19	·01712	21. 40	49 ·7	52 ·7

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr.22		Apr.22		Apr.22				
h m	° ′ ″	h m		h m		h m	°	°
2. 2	21. 44. 40	1. 22	·1086	8. 5	·01687			
2. 12	44. 0	2. 7	·1086	10. 48	·01716			
2. 22	44. 30	2. 55	·1083		·01688			
3. 14	41. 35	3. 22	·1086	21. 0	·01675			
3. 56	40. 25	3. 36	·1082	23. 51	·01629			
6. 8	38. 40	3. 43	·1084					
6. 43	37. 30	4. 9	·1084					
8. 7	36. 20	5. 45	·1083					
8. 15	35. 30	6. 0	·1089					
8. 28	35. 25	9. 2	·1095					
8. 41	36. 10	9. 8	·1091					
	***	16. 17	·1097					
13. 28	36. 50	16. 42	·1094					
13. 40	37. 25	17. 21	·1097					
13. 54	36. 40	19. 35	·1096					
14. 57	37. 45	19. 44	·1094					
16. 28	36. 0	20. 21	·1096					
16. 45	36. 30	22. 11	·1088					
17. 57	36. 5	23. 59	·1084					
18. 13	36. 0							
18. 54	36. 30							
19. 18	35. 30							
19. 28	36. 30							
19. 36	35. 20							
20. 42:	35. 40							
23. 56	42. 50							
Apr.23		Apr.23		Apr.23		Apr.23		
0. 15	21. 42. 10	0. 0	·1084	0. 34	·01596	1. 40	51 ·0	52 ·8
1. 28	41. 40	3. 22	·1088	3. 38	·01600	3. 40	52 ·4	53 ·6
3. 15	39. 30	4. 30	·1086		·01574	9. 40	53 ·8	54 ·3
4. 0	39. 5	5. 12	·1089	7. 50	·01396	21. 40	45 ·0	45 ·6
4. 35	37. 45	11. 0	·1092	9. 31	·01375			
5. 0	38. 10	11. 22	·1091	11. 15	·01419			
7. 5	37. 0	12. 43	·1097	16. 17	·01867			
11. 0	36. 30	13. 7	·1101		·01823			
12. 32	37. 30	13. 26	·1099	18. 30	·01850			
12. 46	37. 10	13. 52	·1101	19. 53	·01846			
12. 54	37. 30	14. 30	·1098	23. 59	·01718			
13. 15	36. 55	15. 22	·1101					
13. 42	38. 0	20. 26	·1096					
14. 9	37. 0	23. 48	·1084					
14. 47	38. 30							
	***							
15. 15	38. 0							
	***							
19. 13	35. 0							
19. 30	32. 30							
	***							
19. 56	35. 0							
20. 43	33. 40							
23. 29	39. 30							
23. 59	40. 5							
Apr.24		Apr.24		Apr.24		Apr.24		
0. 0	21. 40. 5	0. 26	·1086	0. 24	·01718	1. 40	48 ·8	50 ·1
2. 28	40. 45	2. 51	·1087	2. 12	·01623	3. 40	51 ·7	52 ·2
3. 15	40. 0		***	3. 30	·01500	9. 40	53 ·5	54 ·3

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr.24		Apr.24		Apr.24		Apr.24		
h m	° ′ ″	h m		h m		h m	°	°
6. 55:	21. 35. 0	4. 7	·1084	5. 45	·01221	21. 40	47 ·7	49 ·5
9. 28	36. 0	4. 21	·1087	6. 54	·01115			
10. 13	23. 5	7. 27	·1085	8. 6	·01054			
10. 22	24. 45	7. 30	·1107	10. 7	·01015			
10. 45	26. 20		***	16. 5	·01284			
10. 57	26. 5	7. 42	·1095	20. 19	·01564			
11. 28	29. 0		***	22. 0	·01616			
11. 52	32. 30	8. 29	·1099	23. 59	·01593			
12. 0	31. 30		***					
	***	8. 40	·1097					
14. 13	37. 45		***					
14. 32	37. 20	9. 40	·1102					
14. 46	37. 30		***					
15. 16	36. 30	9. 52	·1095					
18. 4	35. 0		***					
18. 12	35. 30	10. 43	·1097					
18. 26	34. 30		***					
18. 32	35. 0	10. 47	·1094					
18. 58	34. 0		***					
19. 24	34. 25	11. 8	·1095					
20. 22	32. 30		***					
	***	11. 13	·1088					
21. 11	32. 30		***					
21. 27	32. 55	11. 22	·1088					
23. 28	40. 30	11. 38	·1086					
23. 59	41. 40	11. 43	·1089					
		11. 45	·1079					
		12. 1	·1079					
		12. 11	·1087					
		12. 37	·1089					
		12. 48	·1086					
		13. 13	·1085					
		14. 0	·1088					
		14. 12	·1087					
		14. 36	·1092					
		15. 39	·1091					
		18. 38	·1093					
			***					
		20. 55	·1087					
		22. 0	·1084					
		23. 14	·1082					
		23. 52	·1077					
Apr.25		Apr.25		Apr.25		Apr.25		
0. 0	21. 41. 40	0. 24	·1078	0. 20	·01592	1. 40	51 ·3	53 ·1
1. 15	42. 0	3. 6	·1084	2. 15	·01507	3. 40	53 ·3	54 ·1
1. 30	41. 0	3. 25	·1081	4. 34	·01337	9. 40	53 ·0	53 ·8
2. 53	39. 40	4. 10	·1087	5. 40	·01226	22. 16	46 ·2	47 ·6
3. 10	40. 0		***	7. 31	·01156			
	***	5. 0	·1075	8. 22	·01149			
5. 15	38. 30		***	10. 20	·01154			
5. 30	36. 10	5. 47	·1081	14. 0	·01373			
6. 14	34. 30	5. 52	·1074	16. 11	·01556			
6. 29	36. 0	6. 6	·1076	20. 35	·01835			
6. 52	35. 0	6. 30	·1071	21. 18	·01840			
7. 45	34. 55	6. 45	·1073	22. 52	·01796			
8. 28	35. 50	6. 51	·1079					
8. 45	35. 30	7. 51	·1084					

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

April 19 and 20. The times are liable to an error of a few minutes.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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.25		Apr.25						
h m	° ′ ″	h m		h m		h m	°	°
11. 24	21. 36. 30	8. 12	·1082					
			***					
11. 42	35. 35							
12. 32	35. 40	8. 22	·1086					
			***					
12. 58	33. 50							
13. 8	33. 25	9. 11	·1085					
			***					
13. 28	38. 10							
14. 4	34. 20	9. 28	·1089					
14. 45	37. 20	11. 12	·1094					
15. 12	36. 30	11. 30	·1091					
15. 18	37. 25	12. 0	·1091					
15. 44	36. 20	12. 23	·1094					
16. 27	37. 5	12. 37	·1101					
16. 34	36. 30	13. 2	·1092					
17. 3	37. 30	13. 8	·1093					
17. 16	36. 45	13. 12	·1101					
17. 33	36. 35	13. 32	·1102					
17. 54	37. 15	14. 24	·1091					
	***	14. 47	·1095					
19. 27	35. 0	17. 45	·1096					
			***					
19. 30	34. 20							
20. 28	33. 0	18. 25	·1094					
			***					
20. 40	32. 20							
20. 45	32. 45	19. 26	·1100					
	***	21. 52	·1088					
21. 28	33. 5	23. 59	·1084					
21. 45	34. 10							
22. 28	36. 10							
23. 59	40. 20							
Apr.26		Apr.26		Apr.26		Apr.26		
0. 0	21. 40. 25	0. 0	·1084	0. 0	·01740	7. 40	46 ·3	48 ·2
			***	3. 49	·01765	12. 40	46 ·1	48 ·7
1. 38:	45. 10			9. 6	·01739	13. 40	45 ·9	48 ·3
3. 0	44. 0	3. 52	·1099	12. 30	·01763	14. 40	45 ·7	48 ·0
			***	13. 25	·01754	15. 40	46 ·0	48 ·1
7. 8:	35. 25							
8. 7	34. 50	4. 7	·1096	16. 27	·01764	16. 40	46 ·6	49 ·0
			***		·01636	17. 40	47 ·4	49 ·0
8. 36	35. 30			21. 9	·01631	18. 40	47 ·0	48 ·0
9. 2	34. 50	4. 23	·1102	23. 59	·01496	19. 40	47 ·5	48 ·7
			***			20. 40	47 ·5	48 ·7
10. 0	35. 50					21. 40	47 ·2	48 ·8
10. 11	32. 50	4. 34	·1099			22. 40	47 ·7	48 ·6
10. 29	32. 30	4. 54	·1104			23. 40	48 ·1	49 ·2
			***					
10. 51	34. 40							
11. 22	35. 25	5. 10	·1101					
11. 43	35. 30	6. 7	·1103					
13. 28	37. 0	9. 41	·1105					
13. 42	36. 50	10. 12	·1114					
14. 6	37. 30	10. 25	·1109					
14. 42	37. 5	10. 39	·1108					
15. 4	38. 0	11. 33	·1112					
15. 25	37. 55	13. 20	·1102					
15. 44	35. 25	15. 9	·1102					
17. 0	36. 20	15. 28	·1106					
	***	16. 39	·1102					
17. 43	35. 0	17. 11	·1108					
	***	17. 31	·1109					
18. 15	34. 50	17. 52	·1100					
18. 26	37. 40	18. 26	·1092					
			***					
18. 31	36. 40							
18. 58	39. 30	19. 0	·1101					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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.26		Apr.26						
h m	° ′ ″	h m		h m		h m	°	°
19. 24	21. 34. 0	19. 52	·1102					
			***					
19. 30	34. 50							
20. 24	29. 25	20. 25	·1095					
20. 27	30. 30	21. 30	·1091					
20. 54	30. 0	22. 37	·1085					
22. 22	35. 0	22. 53	·1078					
22. 40	37. 30	23. 35	·1069					
22. 52	37. 50	23. 59	·1073					
23. 15	39. 40							
23. 32	39. 45							
23. 59	40. 50							
Apr.27		Apr.27		Apr.27		Apr.27		
0. 0	21. 40. 50	0. 0	·1073	0. 50	·01454	0. 40	48 ·8	49 ·7
0. 56	40. 10	0. 57	·1072	3. 24	·01327	1. 40	49 ·6	50 ·8
1. 7	41. 30	1. 6	·1079	5. 39	·01160	2. 40	50 ·8	51 ·9
1. 11	41. 15	1. 10	·1075	6. 47	·01138	3. 40	51 ·5	52 ·0
1. 16	41. 50	1. 18	·1078	7. 10	·01147	4. 40	52 ·1	52 ·7
2. 14	42. 0	1. 53	·1068	7. 52	·01113	5. 40	52 ·8	53 ·0
2. 30	43. 30	2. 35	·1077	14. 9	·01139	6. 40	53 ·4	53 ·4
	***		***	15. 30	·01196	7. 40	53 ·7	53 ·8
2. 59	43. 0	2. 54	·1072	20. 39	·01530	8. 40	53 ·2	53 ·7
3. 30	44. 30	3. 11	·1078	23. 59	·01622	9. 40	53 ·3	53 ·7
3. 59	43. 0	3. 24	·1079			10. 40	53 ·0	53 ·7
4. 15	42. 40	3. 31	·1084			11. 40	53 ·0	53 ·8
4. 42	41. 40		***			21. 40	48 ·0	50 ·2
4. 54	41. 50	3. 40	·1076					
5. 9	40. 55		***					
5. 12	41. 5	4. 25	·1072					
5. 16	40. 30	4. 36	·1069					
5. 27	41. 50	4. 55	·1076					
5. 30	40. 40	5. 4	·1072					
5. 38	41. 10	5. 14	·1080					
5. 42	40. 15	5. 22	·1077					
5. 49	40. 50	5. 28	·1086					
6. 31	38. 40	5. 32	·1076					
6. 54	36. 25	5. 34	·1084					
7. 12	29. 30	5. 39	·1078					
7. 26	27. 10	5. 45	·1082					
7. 40	30. 50	5. 54	·1079					
7. 51	29. 0	6. 4	·1083					
8. 0	28. 40	6. 26	·1088					
8. 16	26. 30	6. 52	·1075					
8. 33	27. 30	7. 6	·1079					
8. 52	32. 20	7. 11	·1092					
9. 11	31. 50	7. 22	·1092					
9. 14	32. 25	7. 29	·1103					
9. 24	32. 25	7. 40	·1082					
9. 41	33. 30	8. 0	·1076					
9. 46	32. 30	8. 21	·1082					
10. 30	34. 30	8. 52	·1073					
10. 52	32. 45	9. 8	·1077					
11. 11	33. 0	9. 45	·1076					
11. 26	32. 40	10. 2	·1079					
11. 50	34. 0	10. 10	·1085					
12. 27	33. 30	10. 24	·1080					
13. 7	36. 30	10. 29	·1084					
13. 23	35. 30	10. 37	·1080					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 27		Apr. 27						
h m	° ′ ″	h m		h m		h m	°	°
13. 45	21. 37. 40	10. 52	·1079					
14. 1	36. 30	11. 13	·1082					
14. 10	36. 50	11. 32	·1079					
14. 24	34. 30	12. 0	·1083					
14. 33	36. 30	12. 16	·1081					
14. 40	36. 20	12. 39	·1085					
15. 11	37. 40	12. 47	·1083					
15. 30	35. 30	13. 0	·1086					
15. 52	35. 30	13. 4	·1091					
16. 3	36. 20	13. 21	·1084					
16. 30	34. 30	13. 30	·1091					
17. 11	36. 50	13. 39	·1093					
17. 54	36. 0	13. 57	·1090					
18. 9	34. 10	14. 7	·1093					
18. 15	35. 50	14. 20	·1090					
18. 22	34. 45	14. 26	·1092					
18. 29	35. 40		***					
18. 40	33. 30	14. 32	·1090					
18. 45	34. 40		***					
20. 18:	32. 30	16. 18	·1090					
21. 40	33. 30		***					
21. 48	32. 10	16. 34	·1086					
22. 0	33. 30		***					
22. 51	34. 15	19. 30	·1091					
23. 28	36. 30	21. 39	·1081					
23. 55	39. 30	23. 36	·1076					
23. 59	38. 40	23. 44	·1082					
		23. 59	·1071					
Apr. 28		Apr. 28		Apr. 28		Apr. 28		
0. 0	21. 38. 40	0. 35	·1071	0. 17	·01620	1. 40	50 ·0	52 ·0
0. 9	36. 45	0. 56	·1078	1. 25	·01623	3. 40	52 ·0	52 ·8
1. 1	42. 30	1. 15	·1075	2. 54	·01595	9. 40	53 ·1	53 ·9
1. 26	43. 0	1. 21	·1079	6. 56	·01288	21. 40	46 ·6	48 ·1
2. 26	42. 0	1. 40	·1076	8. 19	{·01216 ·01260			
	***	2. 23	·1058					
4. 23	38. 40	3. 0	·1074	9. 5	·01060			
6. 0	37. 40	3. 15	·1066	13. 27	·01384			
6. 44	36. 0	3. 25	·1073	19. 24	·01817			
7. 45	35. 30	3. 54	·1070	21. 39	{·01835 ·01343			
8. 12	34. 30	4. 20	·1078					
9. 10	34. 0	4. 45	·1077	23. 52	·01319			
9. 51	31. 10	5. 35	·1087					
10. 5	32. 25	6. 0	·1085					
10. 41	26. 50	6. 7	·1090					
11. 11	31. 30	7. 4	·1086					
11. 58	32. 20	7. 36	·1092					
12. 54	36. 30	7. 45	·1088					
13. 19	35. 30	7. 57	·1091					
	***	9. 30	·1086					
15. 0	35. 40	10. 9	·1092					
15. 15	35. 5		***					
15. 28	35. 50	10. 23	·1091					
15. 45	35. 10		***					
	***	10. 34	·1101					
16. 29	35. 5		***					
16. 44	36. 30	10. 54	·1100					
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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. 28		Apr. 28						
h m	° ′ ″	h m		h m		h m	°	°
17. 44	21. 34. 0	11. 39	·1090					
	***		***					
18. 21	36. 20	18. 15	·1098					
18. 30	35. 0		***					
	***	18. 50	·1092					
19. 13	38. 30		***					
	***	20. 0	·1092					
19. 28	37. 30		***					
	***	20. 30	·1085					
19. 45	38. 25		***					
	***	21. 38	·1089					
20. 5	36. 50		***					
	***	22. 45	·1084					
20. 26	38. 30		***					
	***	22. 47	·1090					
20. 30	37. 30		***					
	***	23. 30	·1076					
20. 54	39. 0		***					
21. 5	37. 30	23. 45	·1082					
	***							
21. 15	38. 0							
21. 32	39. 40							
21. 53	38. 0							
	***							
23. 59	38. 30							
Apr. 29		Apr. 29		Apr. 29		Apr. 29		
0. 0	21. 38. 30	0. 0	·1081	0. 0	·01276	1. 40	51 ·0	51 ·9
	***		***	2. 5	·01170	3. 40	54 ·4	55 ·0
1. 22	38. 30	1. 7	·1076	2. 52	·01057	9. 40	56 ·2	57 ·0
	***		***	3. 35	{·01028 ·01142	21. 40	48 ·0	50 ·2
5. 27	36. 20	1. 21	·1072					
5. 52	37. 0	2. 32	·1073	5. 40:	·01057			
6. 26	36. 20		***	12. 7	·01089			
7. 12	36. 30	3. 3	·1066	14. 9	·01221			
7. 30	35. 30	3. 14	·1069	19. 50	·01748			
7. 57	35. 40	3. 24	·1064	22. 0	·01740			
8. 20	35. 30	4. 23	·1068	23. 59	·01668			
9. 40	36. 30	4. 52	·1076					
10. 19	34. 5	5. 30	·1071					
11. 12	34. 50	5. 36	·1075					
11. 40	36. 10	5. 48	·1074					
13. 0	36. 30	5. 52	·1090					
13. 14	36. 0	9. 9	·1081					
13. 26	37. 5	9. 30	·1079					
14. 0	36. 20	9. 37	·1071					
14. 25	37. 0	10. 22	·1072					
	***	10. 37	·1070					
15. 22	36. 40	12. 17	·1075					
16. 0	38. 0	15. 26	·1076					
17. 2	36. 30	15. 46	·1073					
18. 28	36. 30		***					
18. 41	35. 45	16. 56	·1081					
18. 54	36. 20		***					
20. 59	35. 10	19. 57	·1081					
22. 40	38. 0		***					
23. 59	39. 30	20. 11	·1083					
			***					
		23. 37	·1071					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F Magnet.	Of V. F. Magnet.
Apr. 30		Apr. 30		Apr. 30		Apr. 30		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 39. 30		(†)	1. 0	·01635	1. 40	51 ·7	52 ·7
1. 42	40. 0	1. 40	·1069	2. 51	·01532	3. 40	54 ·2	55 ·2
2. 7	39. 5	2. 5	·1064	6. 0	·01200	9. 40	58 ·0	58 ·6
2. 28	39. 40	2. 28	·1068	7. 7	·01133	21. 40	49 ·9	51 ·8
2. 42	38. 30	2. 40	·1064	9. 5	·01091			
4. 18	37. 0	2. 52	·1067	11. 34	·01094			
4. 45	37. 10		***	15. 33	·01297			
4. 59	36. 50	5. 19	·1066	19. 36	·01640			
7. 43	35. 35	5. 48	·1071	20. 34	·01694			
8. 40	35. 40	5. 55	·1067	21. 45	{ ·01677			
8. 55	35. 10	6. 7	·1073		{ ·01601			
9. 15	35. 30	6. 13	·1074	23. 37	·01578			
9. 41	33. 20	6. 19	·1078					
10. 9	35. 30	7. 15	·1074					
10. 15	32. 30	9. 30	·1071					
10. 30	33. 30	9. 55	·1067					
11. 0	34. 45	10. 14	·1077					
12. 44	35. 0	10. 40	·1072					
13. 46	36. 0	11. 0	·1074					
13. 57	37. 15	11. 21	·1071					
14. 54	36. 0	14. 20	·1077					
15. 30	36. 50	19. 54	·1082					
15. 57	36. 0	21. 36	·1075					
16. 30	36. 20	23. 30	·1065					
17. 42	34. 50							
18. 39	34. 10							
18. 54	34. 30							
19. 53	33. 10							
21. 15	34. 0							
23. 59	38. 25							
May 1		May 1		May 1		May 1		
0. 0	21. 38. 25	0. 0	·1068	0. 0	·01201	1. 40	52 ·3	54 ·0
1. 10	39. 35	0. 47	·1066	2. 0	·01516	3. 40	54 ·6	56 ·0
4. 28	36. 0		***	3. 33	{ ·01358	9. 40	58 ·3	58 ·4
6. 1	35. 30	1. 18	·1073		{ ·01517	21. 40	51 ·2	53 ·2
10. 0	35. 30		***	6. 39	·01176			
16. 0	35. 30	5. 7	·1073	8. 0	·01138			
18. 40	33. 0	5. 26	·1074	9. 49	·01141			
19. 23	33. 10	12. 57	·1075	12. 25	·01219			
20. 54:	31. 25	20. 52	·1085	14. 26	·01360			
22. 11	33. 30	21. 50	·1081	19. 10	·01754			
23. 59	37. 30	23. 21	·1070	20. 15	·01803			
				23. 59	·01778			
May 2		May 2		May 2		May 2		
0. 0	21. 37. 30	1. 7	·1065	1. 0	·01737	1. 40	54 ·2	55 ·4
3. 15	38. 30		***	2. 48	·01616	3. 40	57 ·0	58 ·0
5. 50	34. 30	4. 22	·1071	4. 0	·01458	9. 40	58 ·0	59 ·5
6. 11	34. 0		***	5. 24	·01237	23. 6	50 ·0	51 ·0
6. 43	34. 30	4. 30	·1067	6. 30	{ ·01132			
7. 15	34. 0		***		{ ·01154			
7. 43	34. 50	5. 11	·1069	7. 35	·01122			
11. 47	35. 30		***	8. 37	·01135			
	***	5. 53	·1074	10. 30	·01180			
17. 14	34. 40		***	14. 36	·01478			
	***	6. 43	·1073	18. 14	·01895			
18. 23	33. 5		***	21. 0	·01840			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 2		May 2		May 2				
h m	° ′ ″	h m		h m		h m	°	°
19. 43	21. 31. 50	6. 58	·1071	23. 36	·01823			
20. 44	33. 0		***					
22. 1	37. 20	7. 55	·1076					
23. 13	39. 40	8. 20	·1074					
23. 59	39. 45	10. 10	·1077					
		15. 54	·1086					
		16. 53	·1084					
		17. 22	·1086					
		18. 41	·1083					
		19. 37	·1078					
		19. 48	·1079					
		23. 9	·1070					
		23. 59	·1067					
May 3		May 3		May 3		May 3		
0. 0	21. 39. 45	0. 0	·1067	0. 0	·01812	8. 42	56 ·0	57 ·5
0. 53	41. 20	0. 37	·1069	2. 21	·01743	12. 40	53 ·1	54 ·4
1. 47	41. 30		***	3. 50	·01642	13. 40	52 ·4	53 ·9
2. 12	41. 55	2. 10	·1080	7. 0	·01360	14. 40	51 ·9	53 ·0
2. 21	41. 0		***	8. 39	·01265	15. 40	51 ·4	52 ·4
2. 37	40. 50	2. 19	·1076	10. 0	·01257	16. 40	51 ·4	52 ·2
3. 2	39. 30		***	11. 6	·01296	17. 40	51 ·0	52 ·0
4. 24	37. 40	2. 39	·1076	12. 45	·01415	18. 40	50 ·4	51 ·2
4. 45	37. 45		***	15. 23	·01712	19. 40	50 ·2	51 ·2
5. 0	37. 0	3. 4	·1068	17. 31	{ ·01904	20. 40	50 ·2	51 ·2
5. 9	37. 30		***		{ ·01798	21. 40	50 ·8	51 ·7
6. 0	36. 0	5. 0	·1076	19. 26	·01836	22. 40	51 ·2	52 ·2
6. 44	35. 50		***	19. 32	·01802	23. 40	52 ·5	53 ·4
7. 22	32. 40	5. 12	·1081	20. 19	·01814			
7. 41	33. 30		***	22. 9	·01737			
7. 55	33. 0	6. 2	·1084	23. 0	·01720			
9. 42	36. 30	6. 6	·1086	23. 41	·01666			
10. 22	36. 35	6. 48	·1088					
12. 14	36. 30	8. 46	·1081					
14. 2	35. 5	9. 24	·1083					
14. 12	35. 30	10. 9	·1081					
14. 25	34. 50	10. 55	·1081					
15. 5	34. 30	18. 41	·1080					
15. 16	35. 0	21. 30	·1072					
15. 58	33. 40	23. 59	·1072					
16. 5	34. 0							
16. 39	33. 30							
17. 11	33. 30							
17. 24	33. 0							
18. 14	31. 30							
	***							
19. 16	30. 20							
20. 4	31. 5							
20. 13	30. 0							
23. 59	38. 20							
May 4		May 4		May 4		May 4		
0. 0	21. 38. 20	0. 0	·1072	0. 48	·01583	0. 40	54 ·0	54 ·5
1. 28	38. 20		***	2. 37	·01401	1. 40	55 ·0	55 ·6
2. 42	38. 0	2. 47	·1074	4. 54:	·01060	2. 40	56 ·4	56 ·3
5. 21	34. 0		***	10. 0	·01159	3. 40	57 ·7	57 ·7
8. 28	33. 50	8. 11	·1072	14. 25	·01501	4. 40	59 ·0	59 ·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.
May 4	° ′ ″	May 4		May 4		May 4	°	°
h m		h m		h m		h m		
12. 40	21. 35. 35	9. 32	·1066	17. 39	·01920	5. 40	59 ·5	59 ·5
12. 46	35. 25	11. 53	·1073		·01882	6. 40	60 ·4	60 ·3
14. 40	36. 25	12. 18	·1073	19. 56	·01884	7. 40	61 ·1	60 ·9
15. 12	35. 30	15. 30	·1081	21. 37	·01827	8. 40	61 ·0	60 ·8
16. 15	35. 30	18. 17	·1084	23. 59	·01804	9. 40	60 ·0	61 ·0
17. 54	33. 30	20. 20	·1081			10. 40	59 ·2	59 ·5
18. 0	34. 0	21. 38	·1082			11. 40	58 ·8	59 ·0
18. 7	32. 20	22. 0	·1080			21. 40	49 ·0	52 ·0
	***	23. 59	·1077					
19. 15	31. 30							
20. 26	30. 0							
21. 43	32. 40							
22. 15	35. 30							
23. 37	39. 0							
23. 59	39. 10							
May 5		May 5		May 5		May 5		
0. 0	21. 39. 10	0. 0	·1077	0. 54	·01783	1. 40	53 ·2	54 ·2
2. 43	38. 20	3. 42	·1077	2. 30	·01677	3. 40	56 ·1	56 ·6
3. 45	35. 50	4. 11	·1079	5. 27	·01316	9. 40	59 ·0	58 ·8
6. 40	33. 30	6. 4	·1080	6. 23	·01228	21. 40	49 ·7	51 ·5
10. 43	35. 30	6. 52	·1085	8. 0	·01185			
13. 23	35. 50	8. 10	·1081	10. 49	·01194			
	***	8. 45	·1082	15. 30	·01539			
14. 4	35. 0	9. 0	·1081	18. 35	·01874			
14. 10	36. 5	10. 9	·1079	19. 18	·01896			
14. 24	34. 40	17. 21	·1096		·01824			
	***	21. 39	·1091	23. 59	·01793			
16. 45	34. 30	23. 25	·1081					
17. 14	33. 40	23. 59	·1082					
18. 24	32. 50							
20. 2	31. 30							
20. 14	32. 0							
20. 48	31. 0							
22. 51	37. 5							
23. 59	38. 30							
May 6		May 6		May 6		May 6		
0. 0	21. 38. 30	0. 0	·1082	1. 6	·01729	1. 40	54 ·5	55 ·2
0. 30	39. 30	1. 37	·1086	2. 52	·01645	3. 40	57 ·7	58 ·0
0. 45	41. 30	1. 51	·1090	5. 0	·01181	9. 40	59 ·7	61 ·0
1. 12	41. 10	2. 9	·1086	5. 37	·01112	21. 40	49 ·0	51 ·2
	***	2. 22	·1074	10. 15	·01235			
2. 11	42. 30	2. 43	·1072	12. 0	·01317			
2. 27	40. 0	2. 57	·1080	14. 6	·01543			
2. 37	40. 40	3. 26	·1079	16. 55	·01918			
2. 47	39. 40	4. 31	·1079		·01857			
3. 2	40. 50	5. 37	·1084	23. 59	·01778			
	***	6. 8	·1077					
5. 28	38. 30	6. 22	·1079					
5. 44	39. 0	6. 36	·1076					
5. 55	38. 40	7. 6	·1074					
6. 14	38. 35	7. 38	·1078					
7. 36	34. 30	8. 16	·1077					
8. 4	34. 0	8. 27	·1075					
9. 3	32. 40	9. 17	·1072					
9. 54	34. 20	9. 40	·1076					
10. 26	33. 40	10. 32	·1074					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V.F. Magnet.
May 6	° ′ ″	May 6		h m		h m	°	°
h m		h m						
10. 44	21. 34. 10	11. 4	·1077					
10. 58	33. 40	11. 25	·1074					
11. 15	34. 0	11. 39	·1083					
11. 50	25. 50	12. 0	·1088					
12. 56	33. 40	12. 56	·1084					
13. 19	33. 30	13. 18	·1088					
14. 51	35. 30	15. 2	·1090					
	***	15. 26	·1094					
15. 45	35. 0	21. 9	·1097					
16. 11	35. 30	21. 24	·1103					
17. 42	33. 0	21. 48	·1096					
	***	22. 7	·1107					
18. 45	32. 20	22. 30	·1106					
	***	22. 40	·1097					
20. 50	33. 30	22. 45	·1098					
21. 13	32. 0	22. 52	·1094					
21. 29	34. 0	23. 0	·1100					
21. 57	33. 30	23. 8	·1092					
22. 14	34. 20	23. 41	·1096					
22. 25	36. 30	23. 59	·1106					
22. 30	35. 5							
22. 39	36. 0							
22. 44	35. 0							
22. 53	37. 30							
22. 59	35. 30							
23. 40	37. 10							
23. 51	40. 0							
23. 59	39. 40							
May 7		May 7		May 7		May 7		
0. 0	21. 39. 40	0. 0	·1106	1. 13	·01718	1. 40	52 ·3	54 ·2
0. 11	38. 50	0. 15	·1088	2. 6	·01660	3. 40	55 ·7	56 ·7
0. 29	39. 30	0. 42	·1087	2. 8	·01677	9. 40	60 ·2	60 ·5
0. 36	43. 50	0. 45	·1122	2. 19	·01634	21. 40	49 ·2	51 ·7
0. 41	41. 10	0. 47	·1117	2. 31	·01640			
0. 43	42. 50	0. 51	·1123	2. 35	·01604			
0. 49	41. 45	0. 59	·1117	2. 50	·01693			
0. 57	43. 0	1. 5	·1123	3. 29	·01493			
1. 21	42. 30	1. 16	·1104	3. 54	·01469			
1. 40	40. 0	2. 24	·1111	4. 9	·01416			
1. 43	39. 35	2. 32	·1099	4. 59	·01320			
1. 45	46. 0	2. 42	·1109	5. 6	·01335			
1. 52	44. 0	2. 53	·1098	5. 17	·01269			
2. 13	49. 0	3. 6	·1102	6. 10	·01176			
2. 22	46. 30	3. 21	·1086	7. 7	·01145			
2. 32	52. 0	3. 50	·1123	8. 14	·01157			
2. 40	45. 30	4. 4	·1094	8. 30	·01103			
2. 52	46. 35	4. 11	·1107	9. 0	·01122			
2. 57	46. 30	4. 16	·1106	10. 3	·01016			
3. 5	47. 30	4. 30	·1126	10. 18	·00936			
3. 21	47. 30	4. 39	·1134	10. 50	·00843			
3. 42	44. 30	4. 43	·1115	10. 53	·00868			
3. 55	45. 30	4. 54	·1108	11. 1	·00841			
4. 13	44. 20	5. 1	·1132	11. 6	·00849			
4. 22	45. 30	5. 12	·1090	11. 15	·00923			
4. 30	44. 25	5. 23	·1077	11. 40	·00880			
4. 37	45. 50	5. 38	·1068	11. 54	·00876			
4. 46	46. 20	5. 44	·1070	12. 5	·00798			
	***							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 7		May 7		May 7		h m	°	°
h m	° ′ ″	h m		h m				
5. 0	21. 45. 0	5. 51	·1083	12. 14	·00820			
5. 10	47. 40	6. 7	·1066	12. 21	·00884			
5. 25	48. 20	7. 3	·1080	12. 39	·00829			
5. 56	45. 35	7. 13	·1097	12. 45	·00781			
6. 6	44. 30	7. 30	·1079	13. 4	·00860			
6. 12	44. 30	7. 42	·1076	13. 32	·00796			
6. 53	36. 30	7. 46	·1079	13. 40	·00803			
7. 11	38. 30	8. 3	·1072	13. 53	·00701			
7. 19	38. 40	8. 15	·1059	14. 3	·00754			
7. 30	39. 50	8. 30	·1037	14. 21	·00284			
7. 57	33. 15	8. 43	·1072	14. 27	·00612			
8. 13	37. 50	8. 50	·1086	14. 38	·00803			
8. 21	32. 20	8. 59	·1096	14. 49	·00876			
8. 49	11. 0	9. 10	·1079	14. 55	·00860			
9. 9	22. 20	9. 40	·1061	15. 39	·01042			
9. 26	19. 50	9. 47	·1066	15. 51	·00940			
9. 42	21. 30	10. 0	·1066	16. 0	·00936			
9. 58	19. 25	10. 12	·1042	16. 21	·01085			
10. 9	24. 25	10. 31	·1062	16. 35	·01056			
10. 28	15. 55	10. 45	·1049	16. 43	·01129			
10. 45	19. 0	10. 49	·1057	17. 2	·01175			
11. 0	26. 50	11. 3	·1040	17. 9	·01097			
11. 15	18. 0	11. 13	·1074	17. 15	·01102			
11. 29	21. 30	11. 26	·1078	17. 16	·01146			
11. 38	20. 0	11. 32	·1056	17. 22	·01143			
11. 45	24. 35	11. 45	·1054	17. 53	·01260			
11. 53	28. 30	11. 48	·1050	18. 3	·01255			
12. 0	29. 50	11. 54	·1061	18. 18	·01339			
12. 9	19. 0	12. 11	·1049	18. 39	·01369			
12. 19	25. 5	12. 23	·1095	19. 54	·01657			
12. 39	35. 45	12. 30	·1084	20. 46	·01755			
12. 45	21. 34. 10	12. 39	·1084		·01721			
13. 12	20. 58. 15	12. 47	·1079	21. 5	·01720			
13. 46	21. 19. 5	13. 7	·1051	21. 36	·01783			
13. 53	13. 10	13. 11	·1054	23. 51	·01797			
14. 12	38. 30	13. 17	·1049					
14. 29	16. 10	13. 20	·1058					
14. 52	28. 30	13. 37	·1062					
15. 9	19. 30	14. 2	·1018					
15. 37	49. 50	14. 22	·0941					
16. 9	31. 30	14. 39	·1076					
16. 22	40. 50	14. 41	·1072					
16. 32	51. 50	14. 48	·1079					
16. 40	21. 49. 30	15. 0	·1066					
17. 0	22. 8. 50	15. 22	·1104					
17. 13	21. 59. 25	15. 40	·1028					
17. 15	22. 2. 15	15. 45	·1050					
17. 26	21. 52. 30	15. 49	·1047					
	***	15. 53	·1057					
17. 39	52. 55	16. 2	·1042					
17. 47	48. 0	16. 14	·1057					
17. 59	54. 15	16. 25	·1044					
18. 6	51. 0	16. 47	·1060					
18. 13	53. 50	16. 51	·1080					
18. 24	57. 0	17. 8	·1094					
	***	17. 22	·1040					
18. 42	51. 30	17. 40	·1091					
19. 18	36. 0	17. 53	·1078					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 7		May 7				h m	°	°
h m	° ′ ″	h m		h m				
19. 30	21. 37. 15	18. 0	·1080					
19. 44	33. 0	18. 9	·1096					
	***	18. 14	·1060					
20. 53	42. 20	18. 30	·1022					
21. 14	37. 30	18. 45	·1011					
21. 26	41. 0	19. 6	·1034					
21. 36	39. 30	19. 25	·1012					
21. 56	42. 25	19. 37	·1018					
22. 11	40. 30	19. 54	·0998					
22. 45	42. 0	20. 30	·1006					
	***		***					
23. 59	41. 20	20. 32	·1014					
			***					
		20. 54	·1016					
		21. 9	·0997					
		21. 24	·1026					
		21. 31	·1021					
		21. 40	·1028					
		22. 0	·1024					
		22. 17	·1035					
		23. 23	·1046					
			***					
		23. 59	·1054					
May 8		May 8		May 8		May 8		
0. 0	21. 41. 20	0. 0	·1054		(†)	1. 40	54 ·2	55 ·6
0. 12	41. 25	0. 54	·1068	1. 50	·01694	3. 40	58 ·0	59 ·4
0. 26	39. 0	1. 7	·1055	4. 49	·01160	9. 40	63 ·2	63 ·2
0. 53	43. 10	1. 26	·1044	6. 23	·01153	21. 40	52 ·3	54 ·2
1. 7	44. 20	1. 40	·1054	9. 0	·01196			
1. 14	43. 50	1. 48	·1065	11. 7	·01282			
1. 21	45. 0	2. 23	·1071	13. 5	·01380			
1. 43	38. 50	2. 36	·1073	17. 3	·01906			
2. 11	38. 10	2. 49	·1066	22. 0	·01894			
2. 26	39. 0	3. 0	·1067	23. 59	·01874			
2. 31	38. 30	3. 8	·1064					
2. 40	39. 10	3. 32	·1071					
2. 56	38. 30	4. 4	·1061					
3. 2	39. 20	4. 12	·1053					
3. 10	39. 0	4. 38	·1059					
3. 37	40. 25	4. 56	·1056					
	***	6. 47	·1069					
6. 14	35. 10	7. 6	·1077					
6. 49	35. 25	7. 23	·1072					
7. 14	36. 30	7. 49	·1072					
7. 28	35. 0	8. 8	·1064					
8. 28	35. 25	8. 50	·1061					
10. 46	39. 30	9. 0	·1064					
10. 57	40. 30	9. 37	·1062					
11. 7	39. 30	9. 51	·1083					
11. 28	39. 40	10. 9	·1070					
11. 42	38. 30	11. 10	·1058					
11. 49	38. 40	11. 24	·1060					
12. 30	37. 0	11. 33	·1059					
12. 52	37. 45	11. 56	·1066					
13. 12	39. 30	12. 7	·1064					
13. 37	39. 50	12. 52	·1066					
15. 0	37. 40	13. 11	·1069					

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 8		May 8						
h m	° ′ ″	h m		h m		h m	°	°
15. 34	21. 36. 35	14. 30	·1065					
15. 59	35. 55	16. 6	·1073					
16. 54	35. 50	18. 0	·1076					
19. 40:	30. 10	18. 54	·1076					
20. 37	31. 0	19. 34	·1072					
23. 44	38. 40	20. 32	·1072					
		22. 47	·1063					
May 9		May 9		May 9		May 9		
1. 40	21. 41. 13*	0. 30	·1059	1. 3	·01778	1. 40	57 ·4	58 ·2
3. 40	40. 49*		***	2. 36	·01600	3. 40	61 ·0	62 ·3
9. 40	36. 41*	6. 0	·1062	3. 34	·01454	9. 40	61 ·6	64 ·0
21. 58	34. 11*	6. 29	·1069	4. 45	·01162	21. 58	53 ·0	55 ·1
			(†)		·01192			
		8. 9	·1070	6. 33	·01201			
		10. 56	·1068	10. 26	·01354			
		12. 23	·1076	11. 30	·01420			
		12. 37	·1071	15. 34	·01938			
			***	16. 30	·01995			
		13. 45	·1077	22. 17	·01855			
		19. 8	·1083					
		20. 50	·1090					
		21. 21	·1089					
		23. 59	·1081					
May 10		May 10		May 10		May 10		
0. 0	21. 38. 35	0. 0	·1081	0. 0	·01808	7. 36	56 ·0	58 ·5
1. 13	41. 30	0. 53	·1077	3. 5	·01697	12. 40	55 ·7	58 ·0
1. 30	41. 45	1. 43	·1092	6. 4	·01610	13. 40	55 ·4	57 ·5
2. 0	40. 40	2. 1	·1088	6. 23	·01646	14. 40	56 ·0	58 ·0
2. 9	41. 10	2. 9	·1094	8. 30	·01608	15. 40	55 ·7	58 ·2
2. 23	40. 50	2. 32	·1093	9. 32	·01460	16. 40	56 ·5	58 ·5
2. 43	39. 50	2. 45	·1091	11. 18	·01474	17. 40	57 ·0	58 ·5
3. 24	40. 10	2. 52	·1094	13. 2	·01561	18. 40	57 ·3	59 ·0
3. 29	40. 50	3. 37	·1101	13. 15	·01540	19. 40	57 ·5	59 ·1
3. 45	39. 30	3. 52	·1092	13. 39	·01581	20. 40	57 ·5	59 ·0
4. 45	40. 40	4. 49	·1111	15. 54	·01634	21. 40	57 ·7	59 ·3
5. 19	45. 0	5. 3	·1110	16. 22	·01627	22. 40	58 ·0	59 ·7
5. 42	39. 20	5. 18	·1149	16. 50	·01584	23. 40	59 ·0	61 ·1
5. 57	39. 15	5. 25	·1116	17. 15	·01454			
6. 1	37. 35	5. 30	·1120	17. 32	·01407			
6. 15	37. 40	5. 43	·1095	20. 0	·01514			
6. 22	36. 5	6. 7	·1137	20. 56	·01511			
7. 36	38. 50	6. 13	·1128	23. 59	·01202			
7. 59	30. 35	6. 22	·1131					
8. 14	32. 40	6. 26	·1125					
8. 29	36. 10		***					
8. 45	30. 40	6. 37	·1132					
9. 0	33. 35		***					
9. 16	34. 0	6. 52	·1106					
9. 27	33. 20		***					
9. 45	36. 5	7. 11	·1120					
9. 56	35. 50		***					
10. 1	35. 50	7. 57	·1105					
10. 11	33. 55		***					
	(†)	8. 10	·1122					
11. 45	33. 20		***					
12. 22	34. 0	8. 21	·1109					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 10		May 10						
h m	° ′ ″	h m		h m		h m	°	°
12. 43	21. 31. 55	8. 30	·1116					
12. 58	35. 35		***					
13. 14	34. 50	8. 43	·1111					
13. 22	32. 20		***					
13. 38	34. 50	8. 55	·1101					
13. 59	32. 0		***					
14. 22	34. 55	9. 7	·1108					
14. 33	33. 25		***					
14. 44	33. 40	9. 21	·1102					
14. 52	34. 35		***					
15. 0	32. 40	9. 34	·1107					
15. 12	32. 10		***					
16. 5	43. 40	9. 46	·1097					
16. 40	31. 20		***					
17. 21	33. 20	9. 55	·1103					
17. 54	29. 50		***					
18. 5	31. 5	10. 15	·1104					
18. 18	30. 30	10. 32	·1096					
18. 30	30. 0	10. 42	·1098					
18. 39	31. 25	10. 51	·1109					
18. 51	29. 30	11. 10	·1103					
19. 10	33. 0	11. 55	·1104					
19. 32	31. 0	12. 24	·1109					
	***	12. 45	·1088					
19. 57	33. 45	13. 0	·1098					
	***		***					
20. 13	33. 40	13. 29	·1094					
	***	13. 41	·1097					
20. 41	37. 20		***					
	***	14. 7	·1087					
20. 59	38. 25	14. 45	·1088					
21. 16	42. 30	14. 59	·1085					
22. 15	41. 30	15. 2	·1079					
23. 15	43. 40	15. 24	·1078					
23. 26	43. 40	15. 43	·1059					
23. 30	43. 55	16. 11	·1111					
23. 45	44. 25	16. 26	·1105					
		16. 40	·1110					
		17. 2	·1094					
		17. 14	·1095					
		17. 22	·1085					
		17. 40	·1086					
		18. 12	·1082					
		18. 24	·1077					
		18. 37	·1078					
		18. 45	·1074					
		19. 5	·1076					
		19. 30	·1068					
		20. 11	·1065					
		20. 40	·1074					
		21. 26	·1070					
		21. 53	·1073					
		22. 6	·1071					
			(†)					
May 11		May 11		May 11		May 11		
0. 45	21. 40. 0		(†)	1. 51	·01365	0. 40	60 ·1	62 ·6
0. 57	40. 30	1. 40	·1064*	3. 30	·01238	1. 40	62 ·0	63 ·1

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

May 9. The Photographic Trace of the Declination Magnet was considered too faint to be used with certainty.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 11		May 11		May 11		May 11		
h m	° ′ ″	h m		h m		h m	°	°
1. 12	21. 39. 30	3. 40	·1068*	5. 36	·01240	2. 40	62 ·2	64 ·1
1. 27	40. 30	3. 50	·1076	7. 51	·01155	3. 40	63 ·3	65 ·0
2. 13	38. 0	4. 0	·1090	9. 5	·01258	4. 40	65 ·1	67 ·4
2. 55	36. 50	4. 7	·1074	9. 52	·01280	5. 40	66 ·2	68 ·0
3. 4	38. 25	4. 37	·1069	10. 7	·01318	6. 40	66 ·8	68 ·2
3. 13	36. 40	5. 16	·1060	12. 2	·01343	7. 40	66 ·7	68 ·2
3. 43	37. 0	5. 30	·1064	13. 12	·01424	8. 40	66 ·7	68 ·5
3. 54	38. 20	5. 41	·1063	14. 19	·01574	9. 40	67 ·6	68 ·4
4. 0	37. 0	5. 48	·1068	17. 20	·02035	10. 40	67 ·0	68 ·3
5. 0	36. 30	6. 9	·1057	18. 30	·01984	11. 40	66 ·3	67 ·0
5. 17	37. 20	6. 25	·1054	22. 24	·01955	21. 40	60 ·3	62 ·2
5. 43	36. 25	6. 40	·1058	23. 59	·01920			
6. 14	36. 20	7. 48	·1056					
6. 49	34. 0	8. 0	·1069					
6. 55	34. 25	8. 7	·1065					
7. 15	34. 25	8. 22	·1081					
7. 30	33. 0	8. 38	·1081					
8. 1	33. 25	8. 47	·1072					
8. 15	29. 5	9. 0	·1075					
8. 32	32. 55	9. 9	·1055					
8. 45	29. 40	9. 20	·1058					
9. 1	28. 35	9. 29	·1051					
9. 13	32. 50	9. 47	·1056					
9. 31	35. 0	10. 6	·1056					
9. 43	32. 50	10. 17	·1051					
10. 1	29. 30	10. 28	·1054					
10. 14	31. 25	10. 52	·1054					
10. 28	29. 15	11. 33	·1066					
10. 45	32. 20		***					
11. 4	31. 50	11. 41	·1063					
11. 28	35. 30		***					
11. 47	32. 50	12. 20	·1069					
12. 0	33. 30	12. 44	·1065					
13. 0	34. 0	13. 24	·1066					
13. 11	34. 50	13. 37	·1069					
13. 24	33. 30	14. 8	·1064					
	***		***					
14. 13	35. 30	14. 23	·1064					
15. 5	34. 20		***					
15. 15	35. 0		·1075					
15. 45	34. 0	16. 22	·1076					
16. 0	34. 50	16. 41	·1073					
16. 15	34. 40	17. 0	·1075					
16. 29	36. 0	17. 15	·1072					
16. 44	35. 40	17. 26	·1074					
17. 15	37. 50	18. 6	·1064					
18. 4	33. 50	18. 56	·1061					
	***	19. 19	·1062					
19. 0	33. 50	19. 47	·1061					
19. 44	34. 30		(†)					
21. 35	40. 0	21. 40	·1057*					
23. 15	42. 45							
23. 52	43. 20							
23. 59	42. 35							
May 12		May 12		May 12		May 12		
0. 0	21. 42. 35	0. 39	·1053	0. 30	·01858	1. 40	59 ·6	62 ·4
1. 34	42. 30		***	3. 32	·01803	3. 40	62 ·2	63 ·7

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 12		May 12		May 12		May 12		
h m	° ′ ″	h m		h m		h m	°	°
2. 15	21. 41. 55	1. 41	·1054	5. 26	·01557	9. 40	64 ·5	65 ·7
3. 36	40. 45		***	7. 45	·01424	21. 40	60 ·3	62 ·2
4. 15	39. 20	2. 6	·1052	9. 31	·01396			
4. 43	38. 25		***	11. 0	·01434			
5. 45	38. 30	2. 34	·1062	16. 48	·01633			
6. 22	37. 30		***	17. 5	·01621			
6. 45	34. 0	3. 7	·1062	18. 52	·01662			
6. 50	34. 50	4. 24	·1078	20. 33	·01674			
7. 5	31. 20	4. 39	·1076	21. 0	·01620			
7. 22	33. 50	5. 5	·1077	22. 52	·01557			
	(†)	5. 30	·1079	23. 59	·01460			
9. 40	29. 30*	5. 48	·1088					
10. 8	30. 20	6. 31	·1078					
10. 12	29. 35	6. 46	·1084					
10. 39	33. 30	7. 1	·1074					
10. 59	33. 5	7. 9	·1084					
13. 35	37. 35	7. 28	·1074					
16. 22	37. 0	7. 41	·1078					
20. 15	33. 0	8. 46	·1068					
22. 32:	35. 0	9. 9	·1070					
23. 59	40. 25	9. 37	·1064					
		10. 43	·1071					
		10. 54	·1066					
		11. 10	·1069					
		11. 31	·1066					
		11. 54	·1072					
		12. 32	·1070					
		14. 0	·1075					
		18. 35	·1074					
		23. 0	·1057					
May 13		May 13		May 13		May 13		
0. 0	21. 40. 30	0. 40	·1040	0. 39	·01363	1. 40	64 ·0	66 ·2
0. 39	42. 40	1. 2	·1052	2. 25	·01122	3. 40	65 ·8	67 ·5
2. 26	42. 35	1. 41	·1049	4. 0	·01138	9. 40	67 ·2	69 ·2
2. 41	42. 0	2. 31	·1057	4. 50	·01169	21. 45	60 ·0	61 ·5
3. 25	41. 20	2. 56	·1055	7. 5	·01180			
3. 45	42. 0	3. 39	·1058	9. 40	·01172			
4. 2	40. 40	3. 51	·1066	10. 21	·01184			
4. 24	41. 0	4. 11	·1053	11. 23	·01263			
4. 58	39. 10	5. 2	·1067	13. 49	·01595			
5. 9	38. 30	5. 15	·1064	14. 30	·01656			
5. 15	38. 30	5. 23	·1068	17. 16	·02037			
5. 38	37. 30		***		·01958			
7. 40	36. 0	5. 40	·1066	21. 19	·01974			
8. 0	37. 0	5. 50	·1060	23. 32	·01815			
8. 13	36. 30	6. 18	·1062					
8. 29	36. 50	6. 30	·1066					
8. 58	36. 0	6. 57	·1060					
9. 15	36. 20	7. 30	·1056					
10. 9	35. 30	7. 41	·1056					
10. 37	33. 55	8. 0	·1058					
11. 15	33. 5	8. 17	·1055					
13. 13	29. 10	9. 3	·1059					
13. 58	38. 45	9. 28	·1055					
14. 45	31. 10	10. 5	·1057					
15. 36	29. 45	10. 24	·1054					
16. 12	32. 35	11. 4	·1060					

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 13		May 13						
h m	° ′ ″	h m		h m		h m	°	°
18. 14	21. 33. 50	11. 21	·1053					
19. 15	32. 30	11. 39	·1051					
21. 31:	33. 55	12. 6	·1061					
23. 22	40. 20	12. 45	·1062					
23. 59	39. 30	13. 10	·1049					
		13. 30	·1052					
		13. 43	·1050					
		13. 55	·1061					
		15. 0	·1069					
		15. 43	·1066					
		16. 32	·1069					
		17. 7	·1065					
		17. 22	·1066					
		17. 39	·1063					
		19. 4	·1064					
		20. 25	·1062					
		23. 59	·1049					
May 14		May 14		May 14		May 14		
0. 0	21. 39. 30	0. 0	·1049	0. 0	·01780	1. 40	64·4	66·2
0. 16	40. 35		***	1. 12	01636	3. 40	67·0	68·5
0. 30	40. 55	0. 50	·1044	4. 16	·01137	9. 40	68·2	70·1
1. 30	43. 30		***	5. 15	·01188	21. 40	60·6	62·0
2. 43	43. 40	1. 25	·1041	6. 39	·01176			
5. 22	39. 20		***	8. 5	·01150			
6. 22	36. 20	1. 58	·1046	10. 15	·01207			
6. 54	35. 15		***	12. 33	·01355			
7. 32	35. 50	2. 27	·1041	14. 0	·01544			
7. 45	34. 45	5. 43	·1044	16. 54	{·02046			
10. 56	36. 20	7. 12	·1056		{·01960			
14. 31	36. 30	7. 28	·1062	21. 49	·01965			
15. 43	37. 0	7. 44	·1057	23. 25	·01844			
18. 14	36. 20	8. 12	·1054					
21. 46:	34. 40	8. 39	·1054					
23. 58	38. 40	8. 52	·1048					
		10. 10	·1052					
		10. 39	·1051					
		11. 24	·1053					
		15. 27	·1065					
		16. 30	·1064					
		17. 18	·1065					
		17. 37	·1067					
		18. 35	·1068					
		20. 50	·1057					
		21. 36	·1056					
			(†)					
May 15		May 15		May 15		May 15		
0. 36	21. 40. 0		(†)	0. 33	·01673	1. 40	67·0	68·2
1. 36	40. 30	1. 40	·1050*	1. 45	·01485	3. 40	70·2	72·2
3. 42	38. 45	2. 37	·1044	2. 48	·01225	9. 40	71·2	73·0
5. 56	36. 30	4. 45	·1041	4. 30	·01161	21. 40	63·0	64·5
7. 43:	35. 20	5. 51	·1043	8. 36	·01427			
16. 49	36. 0	6. 46	·1039	9. 51	·01463			
17. 47	34. 30	7. 3	·1039	14. 30	{·01981			
19. 43	33. 25	8. 7	·1037		{·01937			
21. 37	33. 40	9. 36	·1038	19. 55	·01901			
22. 26	35. 5	10. 32	·1042	22. 21	·01840			
	(†)							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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		May 15 h m		h m	°	°
		15. 8	·1056	23. 38	·01754			
		19. 12	·1066					
		20. 13	·1064					
		21. 40	·1052					
		22. 19	·1050					
			(†)					
May 16		May 16		May 16		May 16		
0. 57	21. 40. 0	0. 0	·1043	0. 54	·01640	1. 40	68·0	69·3
2. 45	40. 0	1. 43	·1039	2. 21	·01482	3. 40	71·0	72·2
5. 40	37. 20	2. 4	·1040	4. 15	{·01056	9. 40	72·2	74·0
8. 15	36. 5	3. 40	·1049		{·01097	22. 55	62·0	63·2
14. 0	34. 55	4. 9	·1046	5. 34	·01088			
16. 2	34. 35	4. 38	·1049	7. 54	·01316			
17. 45	33. 0	4. 46	·1046	9. 10	·01384			
18. 53	32. 25	5. 0	·1049	13. 48	{·01943			
19. 36	32. 20	5. 8	·1046		{·01921			
20. 13	33. 20	5. 26	·1048	17. 54	·01863			
20. 30	32. 55	5. 45	·1048	22. 19	·01820			
22. 13	35. 50	6. 11	·1049	22. 52	·01786			
23. 42	40. 0	6. 20	·1052					
		8. 18	·1050					
		8. 32	·1047					
			***					
		10. 9	·1049					
		10. 31	·1052					
		11. 5	·1050					
		11. 54	·1057					
		12. 10	·1056					
		20. 49	·1079					
		23. 7	·1062					
		23. 37	·1064					
May 17		May 17		May 17		May 17		
9. 25	21. 33. 14*	9. 25	·1051*	0. 3	·01715	9. 25	70·4	74·3
21. 40	25. 55*	21. 40	·1072*	1. 0	·01653	12. 40	66·0	69·0
				1. 59	·01514	13. 40	64·2	67·6
				3. 9	·01294	14. 40	62·7	67·0
				4. 36	·01369	15. 40	61·8	65·6
				8. 5	·01680	16. 40	60·0	64·0
				10. 21	·01757	17. 40	59·0	62·8
				12. 38	·01946	18. 40	58·0	62·0
				12. 51	{·01942	19. 40	58·4	61·6
					{·01900	20. 40	60·0	61·8
				15. 25	·01885	21. 40	61·8	62·2
				21. 36	·01794	22. 40	63·3	64·2
				23. 4	·01675	23. 40	64·8	65·6
				23. 59	·01532			
May 18		May 18		May 18		May 18		
1. 40	21. 38. 31*		(†)	1. 0	·01349	0. 40	66·7	67·3
3. 43	40. 58*	1. 15	·1066	2. 49	·01044	1. 40	68·2	69·2
9. 40	35. 6*		***	3. 21	·01020	2. 40	70·4	71·3
21. 40	33. 29*	1. 31	·1065	4. 8	·01124	3. 40	71·3	73·0
			***	6. 17	·01228	4. 40	72·8	74·2
		1. 48	·1059	6. 48	·01339	5. 40	73·0	74·4
			***	7. 25	·01407	6. 40	73·4	74·8
		2. 40	·1050	8. 50	·01349	7. 40	73·0	74·3
			***					

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

May 17 and 18. Workmen were engaged in the Magnet Room; the Photographic Traces of Declination were too faint for use; that of the Horizontal Force was too faint for use on the 17th.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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 18 h m		May 18 h m		May 18 h m	°	°
		3. 6	·1051 ***	10. 1	·01378	8. 40	72 ·5	74 ·0
				10. 49	·01454	9. 40	71 ·7	73 ·5
		3. 26	·1048 ***	12. 15	·01723	10. 40	69 ·2	71 ·8
				14. 36	·01883	11. 40	69 ·0	71 ·5
		5. 27	·1054 ***	17. 46	{·01849 ·01781	21. 40	61 ·0	61 ·8
		6. 26	·1042 ***	18. 38	{·01780 ·01708			
		6. 40	·1042 ***	19. 15	{·01693 ·01603			
		7. 9	·1044 ***	21. 52	·01578			
				23. 59	·01458			
		7. 37	·1059 ***					
		9. 14	·1064 ***					
		10. 29	·1061 ***					
		10. 40	·1062 ***					
		11. 2	·1078 ***					
		11. 30	·1070 ***					
		12. 21	·1071 ***					
		14. 10	·1086 ***					
		14. 47	·1092 ***					
		15. 1	·1087 ***					
		15. 52	·1088 ***					
		16. 24	·1091 ***					
		16. 25	·1084 ***					
		17. 7	·1089 ***					
		18. 10	·1093 ***					
		18. 27	·1103 ***					
		18. 40	·1106 ***					
		19. 21	·1113 (†)					
		21. 40	·1117*					
May 19		May 19		May 19		May 19		
1. 3	21. 44. 40	1. 0	·1102 ***	1. 15	·01275	1. 40	64 ·7	66 ·3
1. 13	44. 0			3. 0	·01041	3. 40	67 ·0	68 ·7
1. 24	44. 50	1. 5	·1106 ***	4. 7	{·00793 ·00877	9. 40	63 ·0	65 ·0
1. 39	43. 35 ***	1. 36	·1092 ***	5. 45	·01095	21. 40	58 ·0	59 ·2
2. 25	45. 10 ***	2. 31	·1109 ***	7. 51	·01103			
				9. 15	·01169			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 19 h m	° ′ ″	May 19 h m		May 19 h m		h m	°	°
3. 10	21. 40. 35 ***	2. 37	·1098 ***	10. 3	·01264			
				12. 16:	·01662			
3. 29	41. 10 ***	3. 36	·1102 ***	18. 39	{·01721 ·01568			
4. 3	39. 25 ***	3. 45	·1092 ***	20. 40	·01511			
				23. 59	·01293			
5. 0	39. 30 ***	4. 30	·1093 ***					
7. 11	34. 30 ***	4. 42	·1102 ***					
8. 37	34. 50 ***	5. 40	·1100 ***					
9. 44	36. 0 ***	5. 46	·1108 ***					
14. 6	36. 5	6. 0	·1106 ***					
14. 24	37. 0							
14. 45	36. 0	6. 6	·1092 ***					
15. 0	36. 30							
16. 44	34. 30	6. 16	·1101 ***					
17. 30	31. 0							
17. 54	32. 20	7. 22	·1102 ***					
18. 15	31. 0							
18. 58	31. 10	7. 28	·1108 ***					
19. 9	32. 0							
19. 15	30. 30	7. 52	·1105 ***					
19. 30	31. 30							
19. 41	29. 30	8. 20	·1111 ***					
19. 55	33. 0							
20. 14	30. 50	10. 13	·1116 ***					
20. 44	31. 50							
22. 10	38. 0	11. 39	·1122 ***					
22. 43	38. 5							
23. 59	41. 35	12. 8	·1121 ***					
		12. 35	·1126 ***					
		13. 26	·1125 ***					
		13. 41	·1129 ***					
		14. 0	·1124 ***					
		15. 47	·1132 ***					
		17. 40	·1133 ***					
		19. 1	·1136 ***					
		19. 52	·1136 ***					
		20. 14	·1129 ***					
		20. 42	·1129 ***					
		22. 2	·1113 ***					
		22. 41	·1114 ***					

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 19 h m		h m		h m	°	°
		23. 35	·1106 ***					
		23. 59	·1108					
May 20		May 20		May 20		May 20		
0. 0	21. 41. 35	1. 40	·1097*	1. 3	·01196	1. 40	62 ·7	63 ·6
1. 0	42. 35	3. 40	·1077*	2. 9	·00924	3. 40	66 ·5	67 ·2
1. 40	42. 44*	9. 40	·1053*	5. 50	·00898	9. 40	68 ·0	68 ·6
3. 40	38. 50*	21. 40	·1086*	7. 27	·00860	21. 40	60 ·7	61 ·9
9. 40	35. 18*			9. 19	·00859			
21. 40	31. 17*			10. 45	·00954			
				17. 24	·01782			
				18. 30	·01826			
				21. 0	·01818			
				22. 5	·01765			
May 21		May 21		May 21		May 21		
	(†)	0. 45	·1100	1. 0	·01120	1. 40	62 ·8	63 ·8
1. 9	21. 40. 30	1. 44	·1101	3. 24	·01064	3. 40	63 ·8	64 ·7
1. 45	40. 20	2. 5	·1094		·00956	9. 40	64 ·0	66 ·5
3. 30	39. 0	2. 26	·1094	3. 50	·00966	21. 45	59 ·0	59 ·4
3. 57	39. 0	2. 47	·1099	4. 28	·01023			
5. 24	37. 15 ***	3. 9	·1093	7. 24	·00881			
		3. 22	·1099	8. 54	·00860			
8. 42	36. 30	4. 38	·1104	10. 20	·00919			
9. 5	35. 30	4. 53	·1095	11. 22	·01009			
10. 57	36. 30	5. 12	·1092	13. 38	·01143			
13. 58	35. 50	5. 44	·1094	17. 0	·01195			
14. 13	34. 55	5. 52	·1089	21. 25	·01161			
14. 37	35. 0	6. 17	·1088	22. 38	·01036			
15. 45	34. 50	6. 52	·1096	23. 59	·00980			
16. 11	34. 55	7. 18	·1096					
18. 59	33. 20	7. 43	·1098					
21. 46	35. 30	7. 55	·1094					
22. 9	37. 30	8. 12	·1092					
23. 29	42. 0	9. 9	·1091					
23. 59	46. 5	9. 29	·1088					
		11. 16	·1091					
		11. 31	·1094					
		11. 40	·1093					
		11. 52	·1096					
		12. 54	·1092					
		13. 1	·1088 ***					
		17. 44	·1102					
		20. 10	·1093					
		21. 8	·1085 ***					
		21. 37	·1091 ***					
		21. 55	·1089 ***					
		22. 30	·1099 ***					
		23. 2	·1086					
		23. 22	·1087					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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 22 h m	° ′ ″	May 22 h m		May 22 h m		May 22 h m	°	°
0. 0	21. 46. 5	0. 0	·1082	0. 54	·00969	1. 40	60 ·0	61 ·2
0. 36	47. 30	1. 52	·1083	1. 50	·00954	3. 40	60 ·7	61 ·5
3. 6	46. 40	3. 12	·1102		***	9. 40	60 ·0	61 ·4
3. 27	46. 0	3. 30	·1102	2. 45	·00875	21. 40	56 ·8	57 ·7
5. 19	43. 45	3. 40	·1098		***			
6. 28	41. 35	3. 52	·1100 ***	3. 23	·00854 ***			
9. 0	39. 20							
10. 16	39. 25	4. 23	·1094 ***	3. 36	·00921			
10. 47	36. 50			5. 54	·00880			
11. 0	37. 0	7. 41	·1102	8. 37	·00914			
11. 23	36. 25	8. 33	·1095	9. 0	·00896			
11. 40	37. 10	8. 44	·1098	10. 12	·00922			
13. 20	37. 50	9. 31	·1094	16. 49	·00954			
14. 7	38. 35	9. 43	·1097	19. 22	·00938			
14. 45	38. 0	10. 0	·1096	21. 5	·00916			
15. 15	37. 30	10. 6	·1101	22. 53	·00824			
15. 54	37. 30	10. 42	·1102	23. 59	·00734			
16. 17	36. 50	11. 0	·1097					
16. 34	37. 0	13. 5	·1094					
17. 11	36. 5	17. 21	·1096					
17. 42	37. 0	22. 48	·1081					
18. 10	36. 15	22. 56	·1088					
18. 55	36. 30	23. 59	·1093					
19. 22	35. 50							
19. 40	36. 20							
19. 52	35. 30							
21. 27	37. 0							
22. 40	39. 40							
23. 10	43. 0							
23. 14	42. 0							
23. 28	41. 0							
May 23		May 23		May 23		May 23		
	(†)	0. 0	·1093	0. 0	·01694	1. 40	59 ·2	60 ·8
1. 13	21. 44. 0	1. 2	·1090	1. 21	·01741	3. 40	61 ·5	63 ·4
2. 40	43. 5	2. 9	·1093	2. 15	·01722	9. 40	65 ·6	67 ·0
4. 30	39. 30	2. 47	·1096	3. 30	·01644	22. 23	61 ·2	62 ·4
6. 44	37. 30	3. 8	·1095	7. 21	·01235			
7. 16	37. 0	3. 22	·1092	9. 9	·01134			
8. 20	37. 55	3. 27	·1093	10. 15	·01095			
9. 47	36. 50	4. 12	·1099 ***	11. 54	·01188			
10. 15	37. 40			16. 11	·01755			
10. 53	33. 50	6. 36	·1091 ***	16. 57	·01732			
11. 28	36. 0			20. 11	·01724			
12. 55	36. 50	7. 55	·1080		·01660			
13. 28	35. 40	9. 7	·1083	21. 5	·01641			
14. 15	36. 0	9. 47	·1074	22. 39	·01445			
14. 22	35. 25	10. 12	·1080	23. 59	·01154			
14. 36	36. 30	10. 22	·1078					
15. 12	36. 0	10. 51	·1080					
16. 22	36. 5	11. 30	·1072					
17. 29	34. 0	13. 23	·1073					
19. 13	32. 30	13. 37	·1075					
20. 52	32. 20	13. 53	·1075					
23. 0	38. 40	14. 2	·1077					
23. 46	40. 40	14. 8	·1073					
		14. 18	·1076					
		15. 9	·1074					

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

May 20. The Photographic Traces for Declination and Horizontal Force were too faint for use.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	May 23 h m		h m		h m	°	°
		17. 18	·1081					
		18. 10	·1081					
		18. 52	·1079 (†)					
		22. 23	·1065*					
May 24		May 24		May 24		May 24		
8. 40	21. 32. 11*	8. 40	·1078*	0. 30	·00657	8. 40	66 ·2	66 ·7
21. 40	31. 56*	21. 40	·1066*	2. 25	·00676	12. 40	61 ·7	64 ·1
				4. 19	·00750	13. 40	61 ·0	63 ·3
				5. 41	·00775 } ·00816	14. 40	60 ·0	62 ·2
						15. 40	58 ·5	61 ·8
				9. 18	·00795	16. 40	59 ·0	61 ·2
				10. 0	·00774	17. 40	58 ·0	60 ·9
				11. 36	·00777	18. 40	58 ·1	61 ·2
				14. 11	·00901	19. 40	58 ·9	60 ·3
				16. 4	·01063	20. 40	60 ·7	60 ·7
				20. 54	·01584	21. 40	62 ·3	61 ·8
				22. 45	·01706	22. 40	63 ·2	62 ·6
						23. 40	64 ·9	64 ·3
May 25		May 25		May 25		May 25		
1. 40	21. 44. 23*	1. 40	·1066*	1. 17	·00975	0. 40	66 ·0	66 ·2
3. 40	43. 58*	3. 40	·1080*	2. 10	·00796 } ·00840	1. 40	66 ·8	67 ·1
9. 50	31. 23*	9. 50	·1073*			2. 40	67 ·9	68 ·5
21. 40	28. 52*	21. 40	·1083*	2. 46	·00861 } ·00945	3. 40	68 ·0	68 ·2
						4. 40	69 ·0	69 ·6
				3. 15	·00920 } ·00966	5. 40	69 ·4	69 ·7
						6. 40	69 ·0	69 ·5
				3. 38	·00974 } ·01022	7. 40	68 ·2	69 ·2
						8. 40	68 ·0	69 ·0
				5. 0	·00969	9. 40	67 ·2	68 ·0
				6. 38	·00972	10. 40	66 ·0	67 ·5
					·01336	11. 40	65 ·0	66 ·8
				7. 51	·01357	21. 40	60 ·0	59 ·4
				10. 6	·01423			
				11. 0	·01477			
				11. 48	·01562			
				12. 51	·01734			
				14. 20	·01749			
				19. 45	·01703			
				20. 20	·01669			
				22. 45	·01618			
				23. 49	·01530			
May 26		May 26		May 26		May 26		
1. 40	21. 41. 25*	1. 40	·1077*	1. 15	·01374	1. 40	62 ·4	62 ·5
3. 40	43. 7*	3. 40	·1086*	3. 0	·01152	3. 40	63 ·6	64 ·4
9. 40	31. 54*	9. 40	·1100*	5. 17	·00783 } ·00837	9. 40	63 ·6	66 ·0
21. 40	30. 48*	21. 40	·1093*			21. 40	56 ·8	58 ·6
				9. 15	·00784			
				9. 34	·00802 } ·01164			
				11. 54	·01375			
				14. 7	·01664			
				16. 30	·01702			
				20. 24	·01709 } ·01663			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	h m		May 26 h m		h m	°	°
				22. 30	·01633			
				23. 59	·01495			
May 27		May 27		May 27		May 27		
1. 40	21. 40. 23*	1. 40	·1081*	2. 0	·01187	1. 40	61 ·5	63 ·0
3. 40	40. 37*	3. 40	·1078*	4. 10	·00745 } ·00781	3. 40	63 ·8	65 ·5
9. 40	34. 59*	9. 40	·1100*			9. 40	65 ·2	66 ·4
21. 40	32. 45*	21. 40	·1086*	6. 4	·00823	21. 40	57 ·8	58 ·2
				9. 42	·00803			
				10. 37	·00844			
				11. 40	·00943			
				16. 0	·01709			
				18. 29	·01695 } ·01583			
				20. 30	·01624			
				21. 5	·01610			
				22. 7	·01515			
				23. 0	·01402			
				23. 59	·01216			
May 28		May 28		May 28		May 28		
1. 40	21. 40. 9*	1. 40	·1107*	1. 40	·00812	1. 40	63 ·4	64 ·3
3. 40	40. 46*	3. 40	·1105*	3. 16	·00863	3. 40	66 ·3	67 ·4
9. 40	35. 43*	9. 40	·1095*	6. 34	·00955	9. 40	68 ·0	69 ·7
21. 40	35. 34*	21. 40	·1085*	7. 3	·00922 } ·00958	21. 40	61 ·0	62 ·7
				8. 7	·00963			
				9. 15	·00929			
				10. 0	·00954			
				11. 52	·01097			
				18. 17	·01855 } ·01779			
				22. 25	·01796			
				23. 59	·01773			
May 29		May 29		May 29		May 29		
1. 40	21. 41. 39*	1. 40	·1092*	0. 23	·01757	1. 40	62 ·1	63 ·6
3. 40	38. 7*	3. 40	·1106*	1. 21	·01724	3. 40	64 ·2	65 ·3
9. 40	34. 55*	9. 40	·1106*	4. 15	·01495	9. 40	64 ·6	65 ·0
21. 40	34. 22*	21. 40	·1088*	6. 11	·01287	21. 40	61 ·9	62 ·2
				7. 49	·01160			
				9. 30	·01129			
				10. 51	·01141			
				13. 15	·01227			
				15. 29	·01404			
				19. 51	·01806 } ·01716			
				20. 36	·01738 } ·01642			
				22. 36	·01737			
				23. 59	·01680			
May 30		May 30		May 30		May 30		
0. 58	21. 41. 10	1. 36	·1084	1. 3	·01634	1. 40	63 ·8	65 ·2
1. 15	42. 40	2. 25	·1086	2. 10	·01563	3. 40	65 ·5	66 ·5
3. 7	40. 50	3. 7	·1082	4. 34	·01317	9. 40	56 ·8	57 ·7
3. 22	41. 0	4. 0	·1088	7. 0	·01037	22. 55	62 ·0	63 ·0
4. 30	39. 30	4. 9	·1086	8. 47	·00904			

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 30		May 30		May 30				
h m	° ′ ″	h m		h m		h m	°	°
4. 45	21. 38. 15	4. 14	·1082	9. 53	·00876			
5. 0	38. 20	4. 33	·1084	11. 21	·00928			
6. 14	34. 40	4. 46	·1079	13. 24	·01120			
6. 43	35. 10	5. 3	·1085	18. 3	{·01781			
7. 28	33. 0	5. 31	·1081		{·01723			
8. 25	34. 30	6. 15	·1091	20. 38	{·01747			
9. 26	34. 40	6. 26	·1087		{·01643			
10. 15	31. 30	6. 37	·1091	21. 52	·01689			
10. 57	31. 10	7. 7	·1081	23. 28	·01628			
11. 21	31. 50	7. 24	·1085					
11. 42	31. 30	9. 12	·1089					
12. 52	33. 50	9. 23	·1084					
16. 13	32. 55	9. 45	·1086					
17. 24	31. 30	9. 52	·1083					
17. 52	29. 50	10. 19	·1089					
19. 5	28. 45	10. 39	·1086					
20. 30	29. 10	11. 15	·1090					
21. 29	31. 45	11. 44	·1087					
22. 49	38. 20	12. 24	·1091					
23. 2	38. 30	13. 35	·1090					
23. 37	40. 35	17. 10	·1097					
		19. 24	·1093					
		22. 13	·1073					
			(†)					
May 31		May 31		May 31		May 31		
0. 7	21. 43. 20		(†)	0. 0	·01564	10. 1	61 ·3	63 ·0
0. 22	43. 30	7. 28	·1056	3. 13	·01082	12. 40	58 ·2	61 ·1
1. 55	41. 50	7. 52	·1071	5. 5	·01017	13. 40	57 ·3	60 ·2
2. 14	41. 0	9. 42	·1079	6. 21	·01015	14. 40	57 ·3	59 ·9
2. 52	40. 25	9. 54	·1085	7. 10	·01020	15. 40	57 ·4	58 ·7
4. 28	37. 50	11. 44	·1099	8. 35	·01084	16. 40	57 ·7	59 ·3
5. 42	34. 20	12. 7	·1094	9. 31	·01169	17. 40	57 ·3	59 ·2
6. 27	33. 50	12. 25	·1093	10. 38	·01336	18. 40	57 ·4	58 ·9
7. 43	33. 40	12. 29	·1086	12. 56	{·01715	19. 40	57 ·7	58 ·7
8. 21	35. 0	14. 30	·1086		{·01643	20. 40	59 ·0	59 ·2
10. 52	35. 0	15. 7	·1088	15. 9:	·01704	21. 40	61 ·0	60 ·7
11. 41	33. 50		***	19. 38	{·01697	22. 40	62 ·0	62 ·0
12. 10	34. 20	18. 53	·1085		{·01129	23. 40	62 ·9	63 ·0
13. 45	33. 50	19. 56	·1072	21. 9	·01115			
17. 52	31. 55	20. 12	·1073	22. 5	·01040			
19. 34	32. 40	20. 48	·1066	23. 49	·00756			
22. 30	39. 0	22. 52	·1069					
22. 47	39. 10	23. 59	·1066					
23. 59	42. 0							
June 1		June 1		June 1		June 1		
	(†)	1. 40	·1071*	1. 40	·00724	0. 40	63 ·8	64 ·2
1. 40	21. 41. 59*	3. 40	·1071*	2. 55	·00760	1. 40	64 ·2	65 ·2
3. 40	42. 45*		(†)	5. 34	·00781	2. 40	65 ·2	66 ·2
9. 40	35. 49*	5. 0	·1061	7. 52	·00835	3. 40	65 ·8	66 ·6
10. 1	34. 45	5. 10	·1062	8. 50	·00841	4. 40	66 ·0	67 ·2
14. 0	34. 30	5. 27	·1068	10. 9	·00937	5. 40	66 ·2	67 ·2
15. 43	33. 30	6. 28	·1069	14. 0	·01434	6. 40	66 ·0	67 ·1
18. 14	31. 50	6. 52	·1073	16. 52	{·01772	7. 40	65 ·0	67 ·0
18. 59	32. 20	7. 10	·1070		{·01665	8. 40	64 ·5	66 ·0
19. 29	34. 0	8. 2	·1082	22. 10	·01698	9. 40	64 ·2	65 ·5
19. 37	33. 50	8. 22	·1083	23. 59	·01555	10. 40	63 ·0	65 ·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.
June 1		June 1				June 1		
h m	° ′ ″	h m		h m		h m	°	°
19. 59	21. 34. 40	8. 50	·1092			11. 40	62 ·0	63 ·5
20. 48	33. 0	9. 11	·1088			21. 40	60 ·4	59 ·6
22. 52	37. 30	9. 55	·1094					
23. 15	38. 50	10. 24	·1093					
23. 59	39. 10	10. 55	·1096					
		11. 25	·1096					
		11. 41	·1099					
		12. 22	·1097					
		14. 4	·1105					
		14. 8	·1096					
		15. 10	·1099					
		15. 13	·1097					
		15. 52	·1100					
		16. 1	·1097					
		17. 14	·1099					
		18. 43	·1100					
		19. 0	·1094					
		19. 26	·1091					
		20. 2	·1091					
		23. 22	·1074					
		23. 59	·1076					
June 2		June 2		June 2		June 2		
0. 0	21. 39. 10	0. 40	·1079	0. 38	·01483	1. 40	64 ·0	64 ·5
2. 52	38. 30	1. 21	·1079	2. 12	·01217	3. 40	66 ·0	66 ·5
4. 41	37. 50	2. 6	·1076	4. 37	·00782	9. 40	66 ·0	66 ·7
5. 40	36. 30	2. 26	·1079	9. 45	·00764	21. 40	60 ·2	62 ·0
7. 3	35. 30	3. 38	·1075	11. 19	·00835			
8. 15	36. 0	4. 41	·1080	13. 54	·01117			
10. 0	34. 50	5. 0	·1078	17. 9	·01563			
10. 13	34. 55	5. 40	·1081	18. 52	·01737			
10. 34	33. 30	5. 52	·1079	19. 39	{·01765			
11. 2	32. 50	6. 7	·1078		{·01663			
11. 27	33. 5	6. 26	·1083	21. 55	·01697			
11. 59	32. 25	7. 0	·1082	23. 7	·01674			
12. 41	33. 40	7. 25	·1083	23. 59	·01621			
13. 12	32. 20	7. 36	·1086					
13. 40	31. 50	7. 48	·1084					
14. 49	32. 0	8. 21	·1088					
15. 58	32. 40	8. 36	·1084					
16. 24	32. 0	9. 7	·1090					
17. 0	32. 50	10. 8	·1082					
17. 54	31. 50	10. 22	·1084					
17. 59	30. 50	10. 39	·1096					
19. 42:	32. 0	11. 30	·1082					
22. 30	28. 30	12. 4	·1084					
	(†)	12. 7	·1082					
			***					
		12. 23	·1084					
			***					
		12. 32	·1088					
		12. 38	·1087					
			***					
		14. 7	·1089					
		14. 19	·1086					
		16. 5	·1091					
		16. 28	·1089					
		17. 12	·1094					

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

May 24. The Declination Time-piece was accidentally injured, and was away for repair till May 30.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	June 2 h m		h m		h m	°	°
		17. 50	·1094					
		18. 48	·1099 ***					
		22. 15	·1092 ***					
		22. 39	·1094					
		22. 41	·1097					
June 3		June 3		June 3		June 3		
	(†)		(†)	0. 17	·01617	1. 40	62 ·8	64 ·8
1. 12	21. 40. 0	1. 6	·1088	2. 30	·01448	3. 40	65 ·0	66 ·8
2. 38	39. 55	1. 46	·1083	6. 21	·00902	9. 40	67 ·0	69 ·0
3. 30	39. 0	2. 25	·1089	7. 0	·00849	21. 46	63 ·2	64 ·2
5. 28:	36. 50	4. 24	·1080	10. 12	·00806			
7. 0	37. 20	5. 10	·1084	13. 50	·01015			
7. 55	36. 50	5. 31	·1081	17. 35	·01365			
8. 45	37. 30	6. 12	·1081	19. 29	·01617			
9. 45	34. 30	6. 53	·1085	20. 53	{·01735			
11. 47	34. 0	7. 13	·1090		{·01643			
12. 8	33. 40	7. 26	·1086	22. 9	·01684			
12. 32	34. 30	8. 22	·1091	23. 59	·01570			
13. 12	34. 30	9. 10	·1091					
13. 53	32. 50	9. 24	·1084					
14. 13	33. 25	9. 37	·1089					
14. 22	32. 25	11. 12	·1093					
15. 28	35. 45	13. 8	·1091					
15. 57	35. 20	13. 40	·1099					
16. 32	40. 50	14. 24	·1087 ***					
17. 22	30. 0 ***	14. 36	·1092					
19. 3	30. 0	15. 30	·1084 ***					
19. 12	31. 50							
19. 22	30. 25	16. 8	·1086					
19. 59	29. 30	16. 15	·1083					
20. 40	32. 40	16. 43	·1085					
21. 5	32. 0	17. 14	·1100 ***					
21. 59	33. 40							
22. 22	33. 55	18. 10	·1088					
	(†)	18. 57	·1093					
		20. 15	·1075					
		20. 24	·1079					
		20. 53	·1080					
		21. 3	·1076 ***					
		21. 47	·1078 ***					
		22. 10	·1073					
		22. 36	·1069 (†)					
June 4		June 4		June 4		June 4		
1. 40	21. 40. 27*		(†)	1. 21	·01384	1. 40	67 ·5	69 ·2
3. 40	37. 48*	1. 40	·1066*	3. 30	{·00946	3. 40	71 ·0	72 ·7
9. 40	34. 11*	3. 7	·1059		{·00998	9. 40	72 ·3	73 ·3
21. 40	32. 2*	3. 18	·1057	5. 24	·01000	21. 40	65 ·4	66 ·6
		3. 36	·1056	8. 0	·00935			
		4. 5	·1052	9. 10	·00955			
		4. 30	·1052	10. 21	·01020			
		4. 38	·1047	12. 5	·01167			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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 4 h m		June 4 h m		h m	°	°
		5. 55	·1057	16. 38	{·01875			
		6. 15	·1055		{·01781			
		7. 10	·1061	20. 45	·01840			
		8. 39	·1053	21. 49	·01820			
		9. 40	·1054	22. 25	·01778			
		10. 24	·1059	23. 59	·01525			
		11. 0	·1059					
		12. 54	·1071					
		13. 48	·1066					
		14. 38	·1072					
		15. 22	·1071					
		16. 33	·1081					
		16. 48	·1069					
		17. 22	·1078					
		18. 0	·1081					
		18. 23	·1079					
		18. 44	·1081					
		20. 51	·1068					
		21. 49	·1056					
		22. 10	·1049					
		22. 32	·1039					
		23. 9	·1031					
		23. 48	·1039					
		23. 59	·1036					
June 5		June 5		June 5		June 5		
0. 41	21. 41. 20	0. 0	·1036	0. 45	·01340	1. 40	71 ·5	73 ·0
1. 0	42. 15	2. 21	·1047	2. 49	{·00948	3. 40	74 ·7	75 ·7
1. 29	39. 50	2. 43	·1056		{·01019	9. 40	76 ·3	77 ·5
2. 7	38. 45	3. 42	·1047	4. 18	·01035	21. 40	71 ·0	71 ·0
2. 40	40. 15	4. 15	·1046	6. 0	·00976			
3. 0	38. 10	4. 43	·1040	7. 54	·00954			
4. 6	35. 40	5. 24	·1050	10. 30	·01034			
4. 52	35. 40	5. 39	·1043	12. 11	·01142			
5. 24	34. 0	6. 22	·1048	14. 19	·01363			
5. 55	33. 5	7. 15	·1049	17. 22	{·01815			
6. 58	32. 30	7. 47	·1054		{·01745			
7. 26	30. 45	8. 28	·1051	19. 30	·01776			
9. 0	33. 30	8. 55	·1057	21. 55	·01724			
9. 40	32. 30	9. 17	·1053	23. 51	·01578			
10. 41	34. 45	10. 22	·1057					
11. 56	34. 45	12. 30	·1061					
14. 5	34. 20	13. 37	·1064					
15. 20	35. 20	18. 16	·1073					
18. 6	31. 20	19. 17	·1065					
19. 12	32. 0	19. 52	·1067					
20. 10	31. 40	21. 7	·1063					
20. 41	32. 10	22. 21	·1056					
21. 57	29. 50	22. 55	·1046					
23. 0	33. 0	23. 37	·1046					
23. 41	34. 55							
June 6		June 6		June 6		June 6		
1. 44	21. 40. 32*	1. 44	·1051*	1. 44	·01201*	1. 44	75 ·7	76 ·7
3. 40	40. 43*	3. 40	·1063*	3. 40	·00979*	3. 40	77 ·4	78 ·6
9. 40	33. 54*	9. 40	·1081*	6. 7	·00862	9. 40	75 ·0	76 ·2
22. 30	35. 28*	22. 30	·1087*	7. 20	·00924	22. 30	66 ·7	68 ·0
				9. 34	·01083			

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	° ′ ″	h m		June 6 h m		h m	°	°
				12. 0	·01317			
				15. 9	{·01766 ·01722			
				19. 20	·01733			
				21. 49	·01674			
				23. 18	·01684			
June 7		June 7		June 7		June 7		
0. 44	21. 40. 50	0. 41	·1090	0. 0	·01696	7. 38	70·2	71·6
1. 10	40. 50	1. 12	·1085	2. 21	·01605	12. 40	66·7	68·1
1. 29	40. 0	1. 53	·1083	7. 6	·01331	13. 40	66·0	67·3
2. 34	39. 45	2. 36	·1086	8. 35	·01320	14. 40	65·2	66·6
3. 28	38. 50	3. 47	·1076	9. 54	·01324	15. 40	64·7	66·2
4. 27	36. 30	4. 10	·1077	10. 30	·01360	16. 40	63·7	65·4
4. 44	36. 15	4. 32	·1071	13. 5	{·01701 ·01595	17. 40	63·3	64·9
5. 29	33. 30	8. 0	·1082			18. 40	62·8	64·4
6. 46	35. 40	9. 32	·1077	14. 17	{·01660 ·01618	19. 40	63·1	64·1
8. 22	35. 0	12. 11	·1086			20. 40	63·7	63·7
9. 30	33. 20	15. 30	·1080	15. 3	{·01673 ·01637	21. 40	64·5	63·5
11. 6	36. 40	18. 54	·1084			22. 40	64·7	64·2
11. 37	35. 35	19. 3	·1079	22. 0	·01665	23. 40	64·7	64·2
12. 40	37. 20	20. 22	·1074	23. 59	·01454			
13. 50	34. 30	21. 43	·1064					
17. 13	31. 55	22. 11	·1066					
18. 21	32. 0	22. 46	·1065					
19. 15	30. 40		(†)					
19. 45	29. 0							
21. 28	30. 30							
21. 57	32. 20							
22. 0	32. 0							
22. 25	32. 40							
	(†)							
June 8		June 8		June 8		June 8		
	(†)		(†)	1. 15	·01442	0. 40	65·5	65·2
1. 1	21. 40. 30	1. 15	·1077	1. 40	{·01 c4 ·01266	1. 40	66·1	66·4
	***	1. 38	·1078			2. 40	66·9	67·2
2. 29	39. 0	1. 58	·1075	2. 17	·01238	3. 40	67·4	68·0
2. 41	39. 50	2. 26	·1076	3. 11	·01135	4. 40	68·2	69·0
	***	2. 43	·1074	5. 9	·00789	5. 40	68·2	69·2
3. 45	37. 45	2. 54	·1076	5. 46	{·00717 ·00845	6. 40	68·0	69·0
4. 0	38. 0	3. 6	·1080			7. 40	67·9	68·6
	***	3. 45	·1078	7. 52	·00776	8. 40	68·0	68·5
5. 4	34. 30		***	8. 39	·00796	9. 40	66·8	68·2
	***	8. 7	·1099	11. 0	·00975	10. 40	66·3	67·5
5. 27	34. 0	8. 38	·1095	15. 25	·01525	11. 40	65·0	66·7
	***		***	17. 3	{·01565 ·01517	21. 40	61·2	61·5
6. 21	36. 25	11. 52	·1106					
	***		***	19. 17	{·01575 ·01541			
7. 42	36. 40	12. 9	·1110					
8. 15	36. 10	12. 38	·1105	20. 50	·01566			
8. 46	36. 55	12. 58	·1107	21. 49	·01538			
9. 0	36. 0	13. 10	·1111	23. 59	·01415			
10. 13	36. 55	15. 9	·1105					
11. 57	35. 50	17. 52	·1107					
12. 15	36. 30	18. 20	·1102					
12. 43	35. 30	18. 38	·1092					
14. 2	34. 35	20. 31	·1079					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperatnre.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 8 h m	° ′ ″	June 8 h m		h m		h m	°	°
15. 21	21. 35. 0	21. 30	·1078					
16. 23	32. 55		(†)					
18. 15	31. 50							
18. 30	30. 30							
20. 29	28. 0							
21. 41	33. 10							
	(†)							
June 9		June 9		June 9		June 9		
	(†)	0. 15	·1076	1. 14	·01318	1. 43	64·0	65·0
1. 13	21. 37. 10		***	2. 50	·01135	3. 40	65·7	66·7
2. 15	37. 0	2. 22	·1082	4. 0	·00949	9. 40	64·0	65·0
2. 51	39. 0	2. 28	·1073	5. 53	·00752	21. 40	60·7	60·0
	***	2. 38	·1081	7. 9	·00710			
3. 43	36. 30	3. 8	·1081	7. 37	·00721			
4. 1	36. 20	3. 23	·1084	8. 26	·00761			
4. 16	37. 30	3. 36	·1082	11. 53	·01198			
4. 45	37. 20	4. 7	·1083	14. 0	{·01416 ·01383			
4. 55	36. 30	4. 25	·1086					
5. 10	37. 0	8. 4	·1099	15. 56	·01481			
5. 25	36. 0		***	18. 39	{·01569 ·01509			
5. 37	35. 45	9. 58	·1096					
5. 51	34. 35		***	21. 40	{·01541 ·01237			
6. 22	36. 0	14. 24	·1107					
7. 56	34. 50	16. 3	·1112	23. 34	·01144			
8. 14	35. 20	16. 47	·1112					
8. 28	34. 45	17. 50	·1107					
10. 30	35. 20	19. 15	·1093					
10. 52	35. 15	21. 11	·1084					
11. 12	36. 20	22. 5	·1083					
14. 52	35. 40	22. 21	·1085					
17. 40	32. 50	23. 59	·1075					
18. 43	33. 30							
19. 28	33. 0							
19. 37	32. 40							
19. 47	33. 25							
20. 37	32. 20							
21. 47	32. 40							
22. 6	34. 20							
	***							
23. 59	41. 10							
June 10		June 10		June 10		June 10		
0. 0	21. 41. 10	0. 0	·1075	0. 0	·01142	1. 40	63·0	63·0
0. 47	42. 0	0. 24	·1076	1. 11	·01040	3. 40	64·7	65·0
2. 24	40. 50	0. 42	·1080	3. 25	·00722	9. 40	66·0	67·2
3. 52	37. 0	1. 7	·1080	4. 49	·00715	21. 46	60·3	60·4
4. 11	37. 50	1. 45	·1084	6. 0	·00738			
4. 30	36. 30	2. 52	·1089	8. 51	·00677			
4. 54	35. 55	4. 6	·1079	10. 15	·00649			
5. 19	36. 0	4. 38	·1082	11. 0	·00678			
5. 55	34. 55	5. 13	·1078	12. 29	·00829			
6. 30	36. 30	6. 6	·1086	14. 30	·01096			
6. 52	34. 45		***	18. 5	{·01663 ·01583			
7. 36	34. 30	6. 36	·1084					
8. 45	36. 20		***	21. 53	·01621			
9. 54	37. 0	6. 42	·1080	23. 5	·01616			
10. 13	36. 50		***	23. 59	·01560			

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

June 4 and 6. The Photographic Traces of the Declination Magnet were too faint for use.

June 6. The Photographic Traces of the Horizontal Force Magnet were too faint for use.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 10		June 10						
h m	° ′ ″	h m		h m		h m	°	°
10. 27	21. 37. 50	6. 53	·1083					
10. 35	36. 50		***					
11. 29	37. 30	12. 51	·1095					
11. 36	37. 0	12. 56	·1092					
12. 0	36. 55	13. 42	·1096					
12. 15	36. 0	14. 37	·1096					
13. 59	37. 50	17. 30	·1105					
14. 21	36. 50		***					
15. 11	37. 30	18. 46	·1099					
15. 20	37. 0		***					
15. 44	37. 20	19. 8	·1091					
16. 10	36. 0		***					
16. 42	36. 0	19. 30	·1092					
17. 7	34. 0	20. 44	·1081					
17. 40	34. 0	23. 8	·1075					
18. 19	33. 0							
18. 29	33. 20							
18. 45	33. 20							
19. 0	32. 30							
19. 11	32. 50							
19. 43	29. 15							
19. 51	29. 50							
20. 15	29. 0							
20. 28	29. 10							
20. 45	28. 15							
21. 22	30. 15							
21. 35	30. 15							
22. 15	34. 0							
22. 32	34. 10							
22. 49	37. 20							
23. 9	37. 50							
23. 21	40. 10							
23. 29	40. 10							
23. 50	42. 0							
June 11		June 11		June 11		June 11		
0. 43	21. 42. 0	0. 34	·1081	0. 30	·01519	1. 40	62 ·0	63 ·0
0. 59	43. 0	1. 15	·1086	2. 19	·01395	3. 40	63 ·4	65 ·2
1. 9	41. 0	2. 10	·1083	6. 10	·00801	9. 40	64 ·7	66 ·0
	***	2. 39	·1076	7. 26	·00676	21. 40	58 ·3	58 ·5
2. 43	38. 0	3. 51	·1083	9. 15	·00649			
3. 12	35. 50	5. 15	·1075	10. 10	·00684			
3. 22	36. 30	5. 32	·1077	11. 9	·00743			
3. 37	38. 0	6. 7	·1073	13. 51	·01077			
4. 7	38. 0	8. 30	·1086	17. 5	{·01580			
4. 24	35. 20	10. 8	·1081		{·01523			
4. 45	37. 45		***	19. 34	·01533			
5. 0	35. 20	14. 41	·1093	21. 52	·01564			
5. 22	34. 30		***	22. 55	·01515			
5. 29	35. 0	17. 32	·1106	23. 59	·01418			
	***	18. 50	·1104					
5. 51	32. 50		***					
5. 55	33. 0	19. 33	·1101					
6. 11	32. 0	20. 37	·1100					
	***	22. 40	·1086					
6. 31	33. 30	23. 21	·1088					
	***	23. 59	·1085					
6. 58	32. 45							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 11								
h m	° ′ ″	h m		h m		h m	°	°
7. 13	21. 33. 0							
	***							
7. 40	31. 50							
7. 49	32. 20							
7. 59	31. 50							
8. 26	32. 45							
8. 48	31. 40							
9. 0	32. 30							
9. 12	31. 45							
	***							
10. 49	32. 20							
11. 53	33. 30							
13. 45	33. 25							
	***							
15. 37	33. 30							
16. 15	32. 20							
	***							
17. 45	30. 0							
18. 13	30. 0							
19. 15	28. 40							
20. 10	33. 5							
21. 20	29. 20							
23. 0	32. 35							
23. 59	36. 30							
June 12		June 12		June 12		June 12		
0. 0	21. 36. 30	0. 0	·1085	0. 30	·01324	1. 40	61 ·4	62 ·3
	***	2. 2	·1078	1. 50	·01162	3. 40	63 ·3	64 ·4
1. 13	38. 40	2. 26	·1082	2. 53	·00974	9. 40	66 ·2	67 ·0
	***	3. 7	·1077		{·00640	21. 40	59 ·2	58 ·2
1. 57	37. 30	3. 21	·1078	4. 24	{·00696			
2. 56	37. 20	3. 30	·1075	6. 19	·00720			
3. 11	38. 40	4. 7	·1074	9. 25	·00636			
3. 50	36. 45	4. 52	·1082	10. 30	·00660			
4. 0	38. 40	5. 15	·1082	11. 39	·00762			
	***	5. 33	·1086	14. 10	·01153			
4. 41	38. 45	5. 45	·1084	16. 45	{·01615			
5. 15	37. 45	6. 38	·1085		{·01543			
5. 59	36. 20	6. 50	·1089	18. 54	·01535			
6. 30	34. 50		***	22. 10	·01557			
	***	11. 30	·1089	22. 53	·01535			
8. 40	34. 30		***	23. 59	·01450			
12. 26	36. 40	17. 35	·1109					
	***	18. 36	·1108					
14. 14	36. 20	19. 6	·1101					
14. 42	37. 10	19. 7	·1079					
17. 26	33. 50	21. 24	·1076					
19. 30	33. 30	23. 59	·1062					
	***							
20. 27	30. 30							
20. 41	30. 35							
21. 6	31. 10							
23. 52	37. 30							
June 13		June 13		June 13		June 13		
0. 12	21. 39. 55	0. 0	·1062	1. 0	·01282	1. 40	63 ·0	63 ·2
1. 2	39. 0	1. 25	·1074	2. 19	·01060	3. 40	66 ·3	66 ·2
	***		***	4. 7	{·00643	9. 40	68 ·0	68 ·0
					{·00701			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 13		June 13		June 13		June 13		
h m	° ′ ″	h m		h m		h m	°	°
2. 8	21. 37. 30	1. 52	·1061	7. 0	·00736	22. 40	61 ·2	59 ·6
2. 28	39. 20		***	8. 55	·00674			
2. 36	38. 30	2. 44	·1070	10. 14	·00677			
2. 46	39. 0	3. 10	·1063	11. 22	·00735			
2. 58	38. 20	4. 0	·1062	14. 21	·01096			
3. 15	38. 25	4. 11	·1070	17. 17	{·01623			
3. 30	36. 30	5. 28	·1077		{·01545			
4. 22	34. 15	5. 40	·1075	20. 24	·01589			
4. 41	36. 50	6. 6	·1076	23. 4	·01594			
5. 45	35. 30	6. 32	·1072					
6. 2	34. 20	7. 14	·1074					
7. 5	33. 30	7. 52	·1069					
7. 54	33. 20	8. 16	·1072					
8. 26	34. 40	8. 27	·1070					
8. 45	34. 0	12. 12	·1077					
9. 0	34. 50	17. 10	·1083					
9. 13	34. 0	18. 42	·1084					
	***	18. 43	·1078					
15. 12	34. 35	19. 10	·1078					
15. 22	35. 30	19. 22	·1072					
15. 48	34. 45	20. 24	·1071					
16. 59	34. 55	23. 42	·1066					
18. 13	33. 50	23. 59	·1063					
18. 45	32. 45							
20. 0	32. 40							
21. 0	29. 45							
21. 36	29. 35							
22. 56	31. 50							
23. 35	34. 0							
23. 59	34. 20							
June 14		June 14		June 14		June 14		
0. 0	21. 34. 20	0. 0	·1063	0. 0	·01547	9. 40	66 ·9	68 ·5
1. 47	37. 30	0. 53	·1060	1. 0	·01433	12. 40	64 ·6	65 ·9
5. 14	34. 0	1. 37	·1065	1. 39	·01301	13. 40	63 ·7	64 ·7
12. 30	31. 50	3. 40	·1070	3. 54	{·00685	14. 40	62 ·2	64 ·1
13. 29	34. 20	5. 38	·1067		{·00743	15. 40	61 ·8	63 ·5
14. 24	35. 10	6. 16	·1071	7. 10	·00701	16. 40	61 ·7	63 ·2
15. 0	37. 30	6. 34	·1067	8. 39	·00659	17. 40	60 ·8	62 ·6
15. 52	34. 30	6. 40	·1068	10. 15	·00674	18. 40	60 ·7	62 ·7
16. 42	33. 30	7. 31	·1066	12. 21	·00934	19. 40	61 ·4	62 ·7
17. 15	31. 10	8. 18	·1070	15. 32	{·01418	20. 40	63 ·6	62 ·4
	***	8. 34	·1069		{·01364	21. 40	65 ·0	63 ·4
18. 40	32. 10	9. 4	·1072	17. 5	·01560	22. 40	65 ·4	64 ·3
19. 23	29. 35	9. 25	·1069	19. 31	{·01617	23. 40	66 ·0	65 ·1
19. 44	29. 10	10. 10	·1076		{·01137			
19. 53	29. 55	10. 34	·1078	20. 29	{·01144			
20. 28	29. 0	10. 46	·1074		{·00949			
20. 41	30. 0	11. 11	·1076	21. 52	·00957			
20. 58	29. 20	11. 17	·1079	23. 59	·00781			
21. 54	30. 25	11. 39	·1080					
	***	11. 52	·1078					
23. 15	35. 30	12. 2	·1083					
23. 59	36. 40	12. 30	·1076					
		14. 13	·1079					
		14. 37	·1078					
		15. 44	·1084					
		18. 22	·1085					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	June 14 h m		h m		h m	°	°
		18. 58	·1085					
		19. 40	·1074					
		22. 14	·1063					
		23. 59	·1059					
June 15		June 15		June 15		June 15		
0. 0	21. 36. 40	0. 0	·1059	1. 14	·00974	0. 40	66 ·3	66 ·2
1. 42	36. 20	3. 49	·1061	5. 0	·00623	1. 40	67 ·0	67 ·0
1. 44	37. 0	7. 26	·1073	7. 17	·00654	2. 40	67 ·2	67 ·7
2. 20	36. 30	11. 15	·1080	9. 0	·00621	3. 40	68 ·0	68 ·6
2. 36	35. 40	11. 44	·1077	9. 56	·00641	4. 40	68 ·8	69 ·1
3. 16	34. 45	12. 14	·1080	10. 30	·00678	5. 40	69 ·0	70 ·0
4. 10	34. 50	12. 40	·1079	12. 5	·00852	6. 40	69 ·2	70 ·1
4. 22	36. 30	13. 13	·1081	14. 36	·01237	7. 40	69 ·0	70 ·5
4. 38	35. 30	13. 44	·1086	16. 23	{·01540	8. 40	68 ·8	70 ·0
4. 45	36. 45	14. 40	·1083		{·01522	9. 40	67 ·5	69 ·0
5. 7	35. 30	16. 0	·1087	20. 9	·01484	10. 40	66 ·8	68 ·2
5. 24	36. 0	16. 30	·1091	22. 13	·01514	11. 40	66 ·0	67 ·3
6. 2	34. 40	18. 53	·1098	23. 59	·01380	21. 40	63 ·0	62 ·0
6. 22	34. 50	19. 24	·1088					
6. 39	34. 30	20. 0	·1087					
6. 53	35. 10	21. 15	·1077					
7. 27	33. 30	23. 22	·1064					
8. 40	34. 10	23. 59	·1066					
9. 44	33. 55							
11. 11	35. 45							
11. 36	34. 0							
11. 49	35. 50							
12. 23	34. 30							
13. 2	35. 30							
14. 40	33. 55							
15. 56	33. 50							
17. 36	32. 45							
17. 51	30. 30							
18. 22	33. 45							
19. 30	34. 0							
21. 0	30. 45							
22. 14	34. 20							
22. 30	34. 40							
23. 16	37. 30							
23. 59	39. 0							
June 16		June 16		June 16		June 16		
0. 0	21. 39. 0	0. 16	·1066	0. 26	·01342	1. 40	66 ·2	66 ·6
0. 40	37. 30	1. 10	·1062	2. 10	·01120	3. 40	68 ·3	69 ·2
1. 0	36. 50	1. 39	·1069	4. 6	·00725	9. 40	67 ·0	68 ·3
2. 13	38. 0	2. 21	·1064	5. 15	·00598	21. 40	62 ·5	64 ·3
2. 50	36. 30	2. 38	·1069	6. 1	{·00556			
3. 12	37. 0	2. 52	·1066		{·00642			
3. 22	36. 5	3. 37	·1073	7. 30	·00604			
4. 20	35. 30	3. 50	·1070	9. 0	·00622			
4. 39	35. 40	4. 9	·1072	10. 33	·00694			
5. 0	34. 0	4. 24	·1069	13. 5	·00917			
5. 42	33. 40	4. 47	·1075	17. 30	·01354			
6. 39	36. 5	4. 53	·1069	19. 18	·01482			
7. 9	34. 0	5. 7	·1074	20. 45	·01534			
7. 31	33. 35	5. 10	·1069	23. 55	·01441			
7. 53	35. 0	5. 37	·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.	Readings of Thermometers. Of V. F. Magnet.
June 16		June 16						
h m	° ′ ″	h m		h m		h m	°	°
8. 19	21. 34. 30	6. 0	·1072					
9. 8	36. 0		***					
9. 59	34. 30	7. 42	·1079					
10. 19	36. 0		***					
10. 29	34. 45	7. 56	·1076					
10. 40	34. 40		***					
	***	8. 24	·1080					
11. 19	29. 50		***					
11. 58	29. 0	8. 39	·1079					
12. 25	33. 0		***					
	***	8. 56	·1082					
14. 29	34. 5		***					
14. 48	35. 45	9. 9	·1079					
15. 30	34. 30	9. 30	·1082					
15. 58	35. 40	9. 51	·1081					
	***	10. 7	·1086					
18. 12	33. 30	10. 20	·1081					
18. 31	32. 20	11. 0	·1082					
19. 49	33. 30	11. 16	·1080					
20. 18	33. 10	11. 35	·1085					
	***	11. 56	·1076					
22. 2	36. 30		***					
22. 15	36. 20	13. 5	·1082					
23. 59	39. 0	14. 15	·1083					
		14. 37	·1088					
		16. 45	·1093					
		17. 45	·1092					
		18. 48	·1088					
		19. 19	·1088					
		22. 6	·1079					
		22. 37	·1073					
		23. 10	·1075					
		23. 51	·1071					
June 17		June 17		June 17		June 17		
0. 0	21. 39. 0	0. 0	·1066	0. 15	·01449	1. 40	66 ·6	68 ·2
1. 15	39. 20	0. 39	·1073	1. 24	·01346	3. 40	69 ·3	71 ·0
3. 15	38. 30	0. 52	·1068	2. 2	·01240	9. 40	70 ·5	73 ·5
4. 46	34. 40	1. 48	·1063	4. 49	{ ·00684	21. 40	63 ·0	64 ·3
5. 28	33. 40	2. 34	·1072		{ ·00744			
6. 25	31. 20	3. 10	·1068	6. 30	·00696			
7. 29	29. 45		***	9. 0	·00743			
8. 15	31. 0	3. 36	·1071	10. 4	·00785			
8. 31	30. 30		***	14. 25	·01262			
10. 22:	35. 40	4. 45	·1066	16. 7	·01557			
11. 31	35. 0	4. 58	·1071	16. 45	·01518			
12. 27	35. 30	8. 52	·1065	22. 24	·01555			
12. 44	36. 30	12. 37	·1076	23. 59	·01482			
13. 12	37. 40	13. 10	·1083					
13. 39	42. 30	13. 17	·1080					
14. 13	39. 0	14. 8	·1080					
14. 28	38. 30	14. 44	·1088					
15. 0	35. 0	16. 27	·1093					
15. 29	34. 50	16. 36	·1090					
16. 12	33. 30	17. 1	·1088					
16. 30	33. 50		***					
16. 42	32. 50	17. 6	·1092					
16. 55	34. 25	17. 40	·1093					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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		June 17						
h m	° ′ ″	h m		h m		h m	°	°
17. 10	21. 32. 45	18. 46	·1090					
17. 13	33. 40	19. 26	·1089					
17. 56	32. 30	19. 48	·1082					
18. 51	32. 30	20. 40	·1086					
19. 26	34. 40	22. 8	·1083					
20. 58	33. 5	23. 30	·1076					
21. 15	35. 0							
22. 27	38. 0							
22. 48	40. 20							
	(†)							
June 18		June 18		June 18		June 18		
	(†)	0. 12	·1074	0. 13	·01483	1. 40	67 ·0	68 ·4
1. 12	21. 38. 30	0. 29	·1077	1. 20	·01398	3. 40	69 ·7	71 ·2
2. 26	36. 0	0. 40	·1075	2. 22	·01269	9. 40	71 ·0	73 ·5
2. 43	34. 0	0. 54	·1076	3. 15	·01122	21. 40	65 ·0	66 ·c
2. 54	36. 30	3. 25	·1079	5. 29	{ ·00643			
3. 17	34. 0	6. 0	·1073		{ ·00718			
3. 35	35. 50	6. 19	·1079	8. 0	·00660			
4. 0	33. 20	6. 52	·1077	9. 9	·00624			
	***		***	10. 18	·00643			
5. 0	32. 40	7. 0	·1080	13. 11	·01016			
5. 15	31. 30		***	16. 30	{ ·01584			
6. 6	31. 30	8. 4	·1076		{ ·01558			
6. 28	30. 10		***	21. 39	·01547			
6. 54	31. 0	11. 15	·1081	22. 11	·01536			
7. 10	30. 30	11. 40	·1080	23. 18	·01435			
	***	16. 26	·1091					
8. 16	31. 30	16. 50	·1093					
8. 29	30. 50	17. 52	·1096					
8. 43	31. 50	20. 49	·1096					
9. 1	32. 10	23. 10	·1084					
9. 15	33. 30							
9. 30	33. 20							
10. 11	35. 10							
10. 39	34. 0							
11. 5	35. 20							
11. 13	34. 30							
12. 54	34. 40							
13. 12	33. 55							
13. 43	35. 20							
14. 13	34. 0							
14. 29	34. 40							
15. 9	34. 0							
16. 12	34. 50							
18. 0	32. 0							
20. 15	34. 50							
20. 55	33. 40							
21. 56	35. 30							
22. 51	36. 55							
	(†)							
June 19		June 19		June 19		June 19		
0. 49	21. 35. 10	0. 58	·1064	0. 0	·01360	1. 40	72 ·0	73 ·c
1. 30	37. 40	1. 36	·1068	1. 9	·01194	3. 40	75 ·3	76 ·2
2. 37	35. 30	1. 49	·1066	2. 42	{ ·00739	9. 40	76 ·2	77 ·5
2. 53	35. 35	2. 18	·1068		{ ·00795	21. 40	69 ·0	71 ·c
3. 10	34. 45	2. 41	·1067	7. 9	·00722			

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.
June19		June19		June19		h m	°	°
h m	° ′ ″	h m		h m				
3. 30	21. 35. 0	3. 36	·1068	8. 26	·00681			
4. 7	33. 35	4. 0	·1071	10. 7	·00730			
	***	6. 49	·1079	12. 22	·00953			
4. 45	36. 35	9. 8	·1078	15. 19	·01477			
5. 13	35. 50	9. 18	·1076	17. 0	·01695			
	***	9. 38	·1080	17. 28	·01726			
7. 40	34. 50	12. 30	·1088		·01624			
7. 54	35. 40	13. 9	·1086	20. 0	·01640			
8. 28	34. 0	13. 25	·1089	22. 15	·01544			
8. 40	34. 50	13. 47	·1095	23. 59	·01405			
10. 36	36. 0	14. 45	·1097					
11. 9	35. 35	15. 12	·1103					
11. 30	36. 30	15. 37	·1100					
13. 3	35. 20	17. 26	·1107					
13. 30	37. 10	17. 37	·1104					
13. 45	36. 30	17. 55	·1106					
14. 12	36. 50	18. 12	·1116					
14. 45	39. 20	18. 42	·1112					
15. 5	38. 20	19. 6	·1116					
15. 45	38. 30	19. 27	·1113					
15. 58	37. 20	20. 22	·1111					
17. 0	35. 30	20. 37	·1113					
17. 29	33. 30	20. 40	·1112					
17. 58	34. 20	20. 50	·1113					
19. 13	31. 35	21. 22	·1108					
20. 43	31. 50	21. 52	·1093					
21. 36	29. 50	22. 25	·1083					
23. 0	31. 40	23. 8	·1077					
23. 36	34. 0	23. 46	·1075					
23. 59	34. 10							
June20		June20		June20		June20		
0. 0	21. 34. 10	0. 0	·1075	1. 4	·01284	1. 40	74 ·0	75 ·8
0. 44	37. 0	1. 54	·1071	2. 22	·01066	3. 40	77 ·0	78 ·7
1. 14	39. 20	2. 37	·1073	3. 38	·00768	9. 40	78 ·0	79 ·2
1. 42	38. 20	3. 20	·1068		·00820	22. 40	70 ·0	73 ·0
2. 4	38. 50	3. 49	·1069	5. 30	·00771			
2. 23	37. 20	4. 5	·1066	7. 11	·00676			
	***	4. 37	·1062	8. 19	·00663			
3. 23	35. 0	4. 40	·1066	9. 50	·00716			
3. 37	36. 0	4. 52	·1060	11. 29	·00861			
3. 59	35. 40	5. 20	·1062	16. 14	·01673			
4. 12	35. 50	5. 50	·1063		·01589			
5. 21	31. 5	6. 46	·1060	19. 21	·01605			
5. 30	31. 20	7. 7	·1064	21. 0	·01618			
5. 43	29. 50	7. 49	·1064	22. 7	·01596			
6. 9	31. 40	8. 21	·1066	22. 54	·01539			
6. 21	31. 45	9. 43	·1062					
7. 8	33. 50	12. 3	·1073					
7. 15	33. 45	12. 40	·1078					
7. 59	34. 40	12. 52	·1082					
8. 11	32. 30	13. 16	·1084					
8. 43	31. 50	13. 27	·1082					
8. 59	32. 50	13. 44	·1085					
9. 15	34. 45	14. 24	·1081					
9. 45	34. 30	15. 7	·1085					
12. 16	36. 30	15. 52	·1084					
12. 31	37. 10	16. 10	·1087					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June20		June20						
h m	° ′ ″	h m		h m		h m	°	°
13. 28	21. 36. 20	16. 28	·1085					
13. 46	36. 30	17. 9	·1091					
14. 9	36. 0	17. 27	·1088					
14. 39	37. 50	17. 52	·1090					
14. 58	38. 0	18. 12	·1087					
15. 13	37. 0	19. 0	·1092					
	***	19. 24	·1084					
16. 45	34. 20	19. 39	·1086					
17. 0	33. 0	23. 59	·1069					
18. 15	33. 20							
19. 0	32. 10							
19. 13	33. 0							
19. 27	32. 30							
19. 43	33. 0							
20. 44	33. 0							
21. 12	34. 0							
21. 27	34. 0							
	***							
23. 59	37. 15							
June21		June21		June21		June21		
0. 0	21. 37. 15	0. 0	·1069	0, 0	·01522	9. 45	76 ·0	78 ·0
0. 15	37. 20	0. 52	·1067	1. 34	·01408	12. 40	73 ·4	75 ·2
	***	1. 25	·1069	2. 30	·01289	13. 40	72 ·7	74 ·3
1. 12	37. 20	1. 44	·1066	4. 56	·00823	14. 40	72 ·1	73 ·0
1. 23	38. 30	2. 20	·1067	6. 28	·00654	15. 40	71 ·5	73 ·5
1. 39	36. 30	4. 7	·1071		·00726	16. 40	71 ·0	73 ·0
2. 52	36. 10	6. 10	·1070	8. 21	·00669	17. 40	70 ·2	72 ·0
3. 7	38. 30	6. 25	·1073	9. 15	·00684	18. 40	69 ·6	71 ·4
3. 14	36. 50	6. 46	·1074	10. 22	·00762	19. 40	69 ·0	70 ·8
3. 37	39. 0	7. 5	·1072	16. 4	·01615	20. 40	68 ·4	70 ·2
4. 38	37. 50	7. 40	·1074	17. 36	·01596	21. 40	68 ·0	69 ·5
4. 58	34. 35	8. 7	·1071		·01384	22. 40	68 ·0	69 ·0
	***	8. 22	·1077	20. 10	·01494	23. 40	67 ·6	69 ·0
6. 45	30. 30	8. 39	·1080	23. 19	·01468			
7. 13	31. 10	8. 45	·1076					
8. 41	34. 30	9. 26	·1077					
9. 21	32. 0	9. 38	·1073					
10. 42	31. 40	10. 51	·1077					
11. 30	33. 30	11. 30	·1075					
12. 19	34. 40	17. 23	·1084					
12. 39	32. 40	17. 51	·1078					
12. 49	33. 50	18. 26	·1075					
14. 9	33. 50	18. 42	·1076					
16. 9	31. 20	19. 11	·1082					
16. 42	32. 40	20. 48	·1076					
17. 23	31. 20	21. 50	·1066					
18. 30	34. 30	23. 0	·1068					
19. 10	34. 0	23. 36	·1074					
19. 45	31. 30	23. 59	·1073					
20. 45	30. 30							
21. 12	32. 30							
	***							
23. 59	41. 45							
June22		June22		June22		June22		
0. 0	21. 41. 45	0. 0	·1073	1. 42	·01127	0. 40	67 ·6	69 ·0
0. 13	42. 30	2. 3	·1081	2. 26	·01143	1. 40	67 ·4	68 ·6

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 22 h m	° ′ ″	June 22 h m		June 22 h m		June 22 h m	°	°
0. 24	21. 42. 20	2. 14	·1078	5. 0	·01029	2. 40	67 ·0	68 ·4
0. 44	44. 30	2. 32	·1089	5. 44	·00954	3. 40	68 ·0	69 ·2
1. 12	39. 30	2. 43	·1089	8. 54	·00615	4. 40	68 ·4	71 ·0
1. 47	40. 0	2. 52	·1082	10. 0	·00574	5. 40	69 ·8	72 ·5
2. 8	39. 30	3. 0	·1083	10. 48	·00596	6. 40	70 ·3	73 ·0
2. 27	40. 5	3. 22	·1076	12. 23	·00757	7. 40	71 ·0	73 ·0
2. 41	39. 45	3. 40	·1091	14. 50	·01118	8. 40	71 ·5	73 ·0
	***	4. 16	·1079	16. 35	·01260	9. 40	71 ·5	73 ·0
3. 6	42. 50	4. 34	·1086	19. 7	·01335	10. 40	71 ·0	72 ·8
3. 55	40. 50	4. 51	·1080	20. 31	·01334	11. 40	70 ·5	72 ·0
4. 8	39. 0	5. 10	·1056		·01062	21. 40	66 ·0	68 ·0
4. 13	39. 30	5. 23	·1051	22. 0	·01159			
4. 29	38. 30	5. 28	·1059	22. 49	·01105			
4. 44	39. 30	5. 44	·1061	23. 59	·00937			
5. 15	35. 55	6. 30	·1074					
5. 41	33. 30	7. 21	·1071					
6. 29	32. 30	7. 35	·1065					
6. 41	31. 0	8. 39	·1079					
6. 59	32. 50	8. 47	·1075					
7. 50	32. 40	8. 58	·1078					
8. 12	36. 5	9. 13	·1072					
8. 44	36. 30	9. 30	·1076					
8. 56	35. 30	11. 4	·1080					
9. 12	36. 30	12. 2	·1085					
9. 23	36. 5	12. 30	·1081					
11. 46	38. 30	15. 30	·1087					
12. 35	34. 0	17. 6	·1095					
12. 59	35. 0	18. 27	·1093					
13. 25	33. 50	18. 56	·1096					
13. 44	34. 45	21. 40	·1081					
14. 27	34. 40	22. 37	·1072					
14. 46	35. 30	22. 53	·1072					
15. 4	35. 0	23. 2	·1076					
15. 44	36. 25	23. 36	·1068					
	***							
18. 13	32. 30							
19. 8	32. 30							
19. 21	31. 45							
	***							
20. 30	31. 50							
20. 51	32. 40							
22. 0	30. 10							
22. 45	31. 0							
23. 1	32. 20							
23. 12	33. 40							
23. 40	33. 30							
23. 45	34. 35							
23. 59	34. 30							
June 23		June 23		June 23		June 23		
0. 0	21. 34. 30	0. 55	·1072	1. 0	·00817	1. 40	70 ·8	72 ·5
	***		***	1. 48	·00636	3. 40	74 ·5	76 ·5
2. 14	38. 0	1. 49	·1065	5. 30	·00748	9. 40	76 ·0	78 ·2
	***		***	7. 0	·00858	21. 40	69 ·3	68 ·3
2. 30	36. 35	2. 30	·1064	7. 45	·00741			
	***		***	8. 50	·00671			
3. 0	38. 0	2. 39	·1061	9. 26	·00680			
	***		***	10. 7	·00759			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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 23 h m	° ′ ″	June 23 h m		June 23 h m		h m	°	°
3. 39	21. 35. 40	4. 6	·1068	10. 53	·00898			
	***		***	13. 27	·01634			
3. 53	36. 10	4. 10	·1054		·01562			
	***		***	18. 35	·01549			
4. 36	32. 35	4. 49	·1068	21. 23	·01534			
	***	4. 55	·1052	22. 0	·01481			
6. 9	31. 10		***	22. 51	·01360			
6. 29	32. 30	5. 7	·1059	23. 59	·01074			
6. 44	32. 20		***					
7. 4	34. 0	10. 0	·1069					
7. 29	34. 30	12. 54	·1077					
7. 40	36. 35	13. 36	·1081					
7. 53	36. 5	14. 22	·1080					
	***	14. 26	·1083					
9. 10	37. 0	14. 45	·1081					
9. 34	34. 30	18. 10	·1088					
10. 17	36. 30	21. 53	·1057					
10. 52	36. 30	22. 24	·1059					
11. 37	38. 0	23. 59	·1050					
11. 56	37. 5							
13. 15	39. 0							
14. 0	37. 30							
14. 12	38. 30							
16. 8	37. 20							
18. 28	32. 55							
19. 43	33. 50							
20. 45	31. 30							
21. 10	31. 55							
21. 50	28. 45							
	***							
23. 12	30. 0							
	***							
23. 59	32. 10							
June 24		June 24		June 24		June 24		
0. 0	21. 32. 10	0. 0	·1050	2. 7	·00635	1. 40	74 ·0	74 ·8
	***	1. 6	·1042	3. 55	·00681	3. 40	76 ·7	77 ·5
0. 23	32. 30	1. 40	·1038	6. 1	·00680	9. 40	76 ·0	77 ·3
0. 37	35. 40	3. 14	·1037		·00706	21. 40	69 ·0	68 ·0
0. 55	33. 10	3. 30	·1036	9. 10	·00693			
1. 45	34. 5	3. 34	·1028	10. 0	·00721			
2. 30	29. 30		***	11. 6	·00849			
2. 58	34. 0	4. 0	·1029	11. 52	·00995			
3. 27	29. 35		***	14. 28	·01595			
3. 43	29. 30	5. 47	·1043		·01517			
3. 58	31. 50		***	20. 55	·01495			
4. 12	29. 20	8. 38	·1042	21. 50	·01426			
4. 16	30. 50	12. 39	·1065	23. 0	·01295			
5. 17	29. 0	13. 0	·1064	23. 59	·01080			
5. 30	27. 0	18. 22	·1085					
	***	18. 53	·1083					
6. 45	27. 45	19. 47	·1076					
	(†)	20. 39	·1076					
9. 40	33. 15*	22. 40	·1059					
13. 1	35. 20	23. 11	·1050					
15. 54	34. 20	23. 59	·1049					
19. 12	31. 30							
20. 24	32. 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.
June24								
h m	° ′ ″	h m		h m		h m	°	°
21. 40	21. 33. 20							
22. 26	31. 10							
	***							
23. 59	33. 30							
June25		June25		June25		June25		
0. 0	21. 33. 30		(†)	1. 23	·00584	1. 46	75 ·0	76 ·0
	***	1. 46	·1042*	1. 37	{·00536	3. 40	78 ·0	78 ·8
1. 13	33. 50	3. 40	·1050*		{·00615	9. 40	78 ·0	79 ·0
	(†)	9. 40	·1064*	2. 47	·00647	21. 40	70 ·4	69 ·6
1. 40	33. 30*	9. 45	·1059	3. 40	·00786*			
3. 40	32. 36*	17. 4	·1091	9. 40	·00636*			
6. 54	32. 0	18. 46	·1093	9. 45	·00628			
7. 43	33. 0	19. 27	·1080	10. 24	·00676			
11. 57	34. 35	20. 21	·1082	11. 30	·00797			
	***	22. 40	·1060	15. 3	{·01596			
14. 16	33. 40	22. 48	·1055		{·01464			
14. 26	34. 20	23. 22	·1057	20. 0	·01494			
14. 39	34. 0	23. 37	·1051	21. 12	·01505			
15. 4	34. 40	23. 52	·1052	22. 23	·01447			
18. 52	32. 30			23. 3	·01374			
19. 26	31. 10			23. 59	·01171			
20. 15	32. 20							
20. 30	31. 30							
21. 57	29. 30							
	***							
22. 37	31. 30							
	***							
23. 26	31. 50							
23. 59	33. 20							
June26		June26		June26		June26		
0. 0	21. 33. 20	0. 16	·1052	0. 16	·01124	1. 40	75 ·3	76 ·2
1. 40	33. 55*	0. 45	·1051	2. 35	{·00560	3. 40	78 ·0	79 ·0
3. 40	32. 47*	1. 35	·1047		{·00664	9. 40	78 ·3	79 ·2
9. 40	34. 27*	2. 16	·1053	6. 49	·00695	21. 40	71 ·5	70 ·4
21. 40	26. 16*	2. 38	·1049	8. 10	·00609			
		4. 23	·1057	9. 8	·00611			
		5. 4	·1056	9. 46	·00634			
		5. 26	·1062	10. 50	·00749			
		5. 47	·1053	14. 51	{·01578			
		6. 22	·1061		{·01466			
		6. 38	·1052	19. 40	·01484			
		7. 11	·1053	21. 45	·01505			
		7. 30	·1057	22. 35	·01467			
		7. 39	·1065	23. 59	·01194			
		7. 54	·1062					
		8. 5	·1056					
		8. 24	·1066					
		10. 30	·1067					
		10. 42	·1074					
		11. 12	·1068					
		11. 47	·1067					
		14. 39	·1075					
		15. 5	·1079					
		17. 56	·1089					
	*	18. 47	·1086					
		19. 24	·1074					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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	° ′ ″	June26 h m		h m		h m	°	°
		20. 25	·1069					
		21. 42	·1056					
		23. 11	·1047					
		23. 40	·1048					
June27		June27		June27		June27		
1. 40	21. 33. 49*	0. 58	·1044	1. 22	·00813	1. 40	76 ·4	77 ·0
3. 40	30. 26*	1. 26	·1048	2. 33	{·00564	3. 40	79 ·5	80 ·5
9. 40	35. 7*	2. 6	·1042		{·00656	9. 40	81 ·0	83 ·0
23. 0	32. 51*	3. 32	·1049	4. 47	·00703	23. 0	74 ·0	76 ·0
		4. 6	·1045	5. 32	·00658			
		5. 46	·1049	5. 42	·00622			
		5. 50	·1055	6. 30	·00654			
		6. 32	·1054	8. 5	·00543			
		6. 54	·1057	9. 0	·00516			
			***	9. 53	·00558			
		11. 24	·1061	10. 40	·00644			
		11. 40	·1064	14. 13	{·01378			
		11. 57	·1062		{·01294			
		12. 40	·1064	15. 53	·01340			
		12. 54	·1064	19. 24	·01307			
		13. 39	·1076	21. 15	·01352			
		14. 8	·1071	22. 40	·01266			
		18. 56	·1083					
		19. 30	·1079					
		20. 35	·1076					
		21. 10	·1073					
		22. 24	·1069					
		23. 23	·1050					
		23. 59	·1053					
June28		June28		June28		June28		
0. 30	21. 40. 30	0. 0	·1053	0. 30	·01074	9. 58	82 ·0	83 ·0
0. 45	37. 50	0. 52	·1046	1. 26	·00897	12. 40	79 ·0	79 ·9
1. 6	37. 20	1. 48	·1046	3. 16	{·00421	13. 40	78 ·1	78 ·3
1. 23	35. 40	2. 10	·1052		{·00495	14. 40	77 ·3	77 ·6
1. 30	36. 35	2. 54	·1050	7. 35	·00518	15. 40	75 ·6	77 ·0
	***	3. 7	·1054	9. 11	·00469	16. 40	74 ·5	76 ·7
2. 15	34. 5	5. 30	·1060	10. 15	·00500	17. 40	73 ·8	75 ·4
2. 39	36. 30	5. 54	·1046	11. 9	·00568	18. 40	73 ·0	74 ·6
2. 54	35. 0	6. 3	·1053	15. 37	{·01429	19. 40	72 ·0	73 ·5
3. 0	36. 0	6. 37	·1057		{·01315	20. 40	73 ·0	73 ·6
3. 12	35. 0	7. 0	·1066	18. 20	{·01354	21. 40	72 ·8	72 ·5
3. 25	36. 50	7. 19	·1062		{·01277	22. 40	72 ·7	72 ·8
	***	8. 26	·1061	20. 3	{·01304	23. 40	73 ·0	73 ·0
4. 42	33. 50	8. 44	·1073		{·01134			
	***	9. 2	·1062	21. 15	·01198			
4. 58	36. 35	10. 14	·1059	23. 59	·01216			
5. 8	34. 20	10. 37	·1062					
5. 15	36. 35	11. 25	·1066					
	***	12. 0	·1067					
6. 44	35. 0	12. 11	·1069					
7. 31	36. 30	12. 31	·1079					
7. 54	35. 5	13. 0	·1080					
8. 15	35. 0	14. 29	·1069					
8. 43	31. 30	17. 40	·1080					
	***	21. 9	·1067					
9. 10	31. 10	21. 27	·1069					

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

June 26 and 27. The Photographic Traces of the Declination Magnet were too faint for use.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 28		June 28						
h m	° ′ ″	h m		h m		h m	°	°
9. 44	21. 34. 0	22. 11	·1068					
10. 0	33. 50	23. 26	·1073					
	***							
12. 7	38. 30							
	***							
13. 12	37. 30							
	***							
13. 47	35. 30							
	***							
14. 37	38. 0							
15. 0	36. 50							
16. 23	37. 0							
16. 40	35. 50							
16. 53	36. 30							
17. 11	35. 30							
18. 42	35. 20							
18. 54	36. 0							
19. 8	34. 30							
19. 14	36. 0							
19. 27	35. 0							
19. 37	36. 0							
19. 48	31. 35							
20. 14	38. 0							
20. 59	40. 30							
21. 42	40. 30							
22. 12	39. 10							
23. 4	39. 20							
23. 59	41. 50							
June 29		June 29		June 29		June 29		
0. 0	21. 41. 50	0. 0	·1074	1. 45	·01196	0. 40	73 ·3	73 ·3
1. 5	40. 30	1. 40	·1072	2. 21	·01121	1. 40	74 ·0	74 ·0
1. 15	41. 35		***	5. 0	·01149	2. 40	74 ·0	74 ·3
1. 36	39. 40	2. 15	·1072	6. 56	·01145	3. 40	73 ·8	74 ·0
2. 32	42. 30		***	9. 21	·01246	4. 40	74 ·0	74 ·5
	***	2. 59	·1076	11. 54	·01217	5. 40	74 ·0	74 ·5
3. 37	38. 40		***	20. 10	·01215	6. 40	73 ·7	74 ·4
	***	5. 25	·1081	23. 59	·01113	7. 40	73 ·3	74 ·2
4. 26	40. 20		***			8. 40	72 ·7	73 ·8
5. 8	37. 30	8. 47	·1096			9. 40	71 ·0	73 ·0
5. 30	38. 30		***			10. 40	70 ·5	72 ·5
6. 19	37. 30	11. 45	·1102			11. 40	69 ·0	71 ·0
8. 59	41. 0		***			21. 45	67 ·3	67 ·7
10. 0	40. 5	15. 3	·1120					
11. 12	42. 0		***					
11. 26	41. 30	16. 20	·1122					
11. 43	41. 50		***					
13. 8	42. 30	17. 3	·1128					
13. 25	43. 0		***					
14. 42	43. 20	17. 40	·1126					
15. 13	42. 30		***					
15. 45	43. 0	17. 41	·1117					
20. 2	36. 30		***					
21. 0	38. 20	19. 3	·1118					
22. 41	40. 5		***					
23. 10	41. 30	19. 55	·1104					
23. 59	41. 30		***					
		20. 32	·1105					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		June 29						
h m	° ′ ″	h m		h m		h m	°	°
		21. 3	·1096					
			***					
		22. 20	·1109					
			***					
		22. 51	·1107					
			***					
		23. 16	·1102					
			***					
		23. 48	·1091					
			***					
		23. 59	·1091					
June 30		June 30		June 30		June 30		
0. 30	21. 41. 0	0. 0	·1091	0. 40	·01112	1. 40	68 ·6	69 ·3
1. 40	42. 0	1. 6	·1092	3. 11	·01016	3. 40	70 ·0	70 ·3
2. 9	42. 20	2. 35	·1095	5. 46	·00789	9. 40	70 ·0	71 ·0
2. 22	41. 50	3. 54	·1087	8. 55	·00702	21. 40	65 ·6	65 ·9
2. 41	42. 30	4. 32	·1092	10. 36	·00769			
3. 32	40. 10	8. 25	·1097	12. 19	·00944			
4. 37	40. 0	10. 39	·1100	14. 25	·01115			
5. 29	41. 40	10. 53	·1111	16. 46	·01189			
7. 56:	38. 40	13. 55	·1108		·01081			
9. 13	40. 0	14. 20	·1113	17. 55	·01186			
9. 27	39. 45	15. 7	·1110	19. 3	·01210			
9. 35	40. 30	15. 30	·1114		·01094			
11. 3	40. 0	16. 19	·1112	21. 50	·01135			
11. 22	40. 40	16. 28	·1115	22. 48	·00963			
11. 37	39. 45	16. 35	·1113					
12. 12	35. 50	18. 57	·1112					
12. 51	37. 50	19. 20	·1103					
15. 27	39. 10	20. 58	·1098					
15. 43	38. 20	23. 10	·1084					
	***							
16. 50	39. 35							
17. 21	38. 0							
	***							
18. 22	39. 30							
18. 37	38. 50							
19. 12	39. 0							
19. 38	37. 35							
20. 11	39. 10							
20. 21	38. 50							
20. 44	39. 30							
21. 11	38. 10							
21. 53	37. 35							
22. 22	38. 0							
22. 36	37. 30							
23. 12	38. 40							
23. 27	38. 20							
23. 44	39. 0							
23. 52	38. 40							
23. 59	39. 0							
July 1		July 1		July 1		July 1		
0. 0	21. 39. 0	0. 0	·1089	0. 0	·00928	1. 40	67 ·3	68 ·3
0. 40	38. 0	0. 52	·1092	2. 23	·00684	3. 40	67 ·4	68 ·7
0. 58	37. 30	1. 18	·1101	3. 0	·00654	9. 45	64 ·6	66 ·0
1. 15	38. 0	2. 4	·1103	6. 14	·00619	21. 50	60 ·2	62 ·0

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 1		July 1		July 1				
h m	° ′ ″	h m		h m		h m	°	°
1. 40	21. 35. 40	2. 26	·1106	7. 37	·00665			
1. 52	36. 40	2. 51	·1112	12. 31	·01101			
	***	3. 38	·1116		·01004			
3. 17	38. 0	5. 40	·1114	14. 17	·01062			
3. 53	36. 30	6. 6	·1109		·01026			
4. 13	37. 20	8. 30	·1117	20. 10	·01105			
4. 29	37. 0	8. 47	·1115	21. 55	·01097			
4. 42	37. 30	8. 55	·1120	22. 50	·01076			
5. 39	35. 0	9. 59	·1114	23. 59	·00950			
5. 50	35. 30	10. 11	·1121					
6. 47	33. 30	11. 52	·1113					
7. 10	34. 0	12. 19	·1115					
7. 43	32. 30	13. 15	·1113					
8. 10	33. 30	16. 30	·1122					
8. 24	32. 30	17. 0	·1121					
8. 39	33. 30	17. 15	·1124					
8. 59	31. 30	17. 41	·1121					
	***	18. 11	·1124					
10. 22	36. 0	18. 52	·1122					
12. 13	32. 35	19. 9	·1124					
12. 29	33. 0	20. 8	·1117					
13. 52	31. 40	20. 19	·1112					
15. 26	35. 0	21. 0	·1112					
16. 52	32. 30	23. 59	·1097					
18. 7	31. 30							
	***							
19. 8	32. 50							
19. 56	31. 30							
20. 3	32. 35							
20. 38	30. 30							
	***							
21. 28	30. 30							
	***							
23. 25	32. 45							
23. 43	34. 0							
23. 59	33. 0							
July 2		July 2		July 2		July 2		
0. 0	21. 33. 5	0. 0	·1097	0. 33	·00883	1. 40	63 ·0	64 ·8
0. 51	33. 20	1. 26	·1094	2. 9	·00741	3. 40	64 ·5	66 ·3
1. 12	32. 40	2. 4	·1090	5. 19	·00323	9. 40	66 ·3	67 ·7
1. 43	33. 0	3. 50	·1094	8. 7	·00045	21. 44	62 ·3	63 ·8
	***	4. 12	·1090	10. 35	·00036			
2. 54	35. 20	5. 25	·1089	11. 41	·00096			
	***	5. 40	·1091	15. 39	·00654			
3. 43	33. 40	5. 46	·1088	17. 5	·00816			
4. 7	34. 50	5. 54	·1093	19. 30	·00949			
4. 39	34. 5	6. 10	·1089	21. 36	·00972			
5. 19	32. 20	7. 39	·1091	22. 19	·00955			
	***	8. 12	·1089	23. 59	·00803			
5. 59	32. 25	17. 0	·1104					
6. 15	31. 30	19. 9	·1101					
6. 28	31. 55	19. 26	·1097					
6. 45	31. 30	19. 52	·1097					
7. 6	32. 10	21. 25	·1086					
7. 23	31. 50	21. 39	·1081					
8. 28	32. 50	21. 47	·1083					
9. 12	34. 40	22. 0	·1077					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 2		July 2						
h m	° ′ ″	h m		h m		h m	°	°
9. 43	21. 33. 50	22. 25	·1078					
10. 39	33. 50	22. 40	·1074					
11. 2	34. 30	22. 49	·1076					
11. 43	33. 30	23. 6	·1074					
12. 41	33. 0	23. 15	·1076					
14. 59	32. 30	23. 40	·1074					
15. 43	32. 45	23. 59	·1077					
15. 57	31. 30							
16. 39	31. 0							
16. 52	31. 25							
17. 2	30. 5							
17. 44	29. 10							
18. 7	30. 30							
18. 11	29. 30							
18. 45	29. 25							
18. 55	30. 40							
19. 4	29. 5							
19. 13	28. 40							
19. 18	29. 20							
19. 37	29. 10							
19. 58	30. 30							
20. 22	29. 20							
20. 30	30. 0							
20. 40	28. 40							
20. 43	29. 0							
20. 53	28. 20							
21. 16	28. 35							
21. 40	31. 30							
22. 11	30. 0							
23. 3	32. 20							
23. 12	32. 0							
23. 25	34. 0							
23. 32	33. 30							
23. 37	34. 5							
23. 46	32. 45							
23. 59	34. 30							
July 3		July 3		July 3		July 3		
0. 0	21. 34. 30	0. 0	·1077	1. 15	·00661	1. 40	65 ·8	66 ·4
1. 13	33. 50	1. 34	·1084	3. 51	·00214	3. 40	67 ·0	68 ·0
1. 27	32. 20	1. 48	·1082	5. 8	·00057	9. 40	67 ·0	68 ·0
1. 40	35. 0	2. 22	·1084		·00144	21. 45	64 ·0	65 ·2
	***		***	7. 0	·00133			
2. 13	33. 5	2. 39	·1079	7. 53	·00113			
	***	4. 0	·1078	10. 0	·00118			
3. 43	31. 45	4. 14	·1076	11. 33	·00184			
	***	5. 7	·1079	16. 38	·00695			
5. 29	32. 40	5. 52	·1071	18. 15	·00836			
6. 29	30. 20	7. 14	·1082	20. 0	·00895			
7. 44	31. 30	7. 51	·1075	21. 11	·00892			
9. 44	35. 20	9. 0	·1085	23. 15	·00807			
10. 11	34. 30		***	23. 59	·00729			
11. 0	35. 30	10. 30	·1089					
11. 12	34. 30	13. 12	·1089					
	***	13. 26	·1094					
12. 15	35. 5	13. 43	·1089					
12. 29	34. 30	15. 45	·1093					
12. 52	34. 40	17. 50	·1103					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.
June 29 and 30. The times are probably a few minutes in error.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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 3		July 3						
h m	° ′ ″	h m		m		h m	°	°
13. 29	21. 33. 0	20. 19	·1104					
14. 19	34. 40	21. 41	·1093					
	***	21. 50	·1095					
15. 7	33. 20	22. 25	·1091					
15. 39	34. 0	23. 6	·1083					
15. 45	33. 0	23. 30	·1082					
16. 14	33. 50	23. 59	·1086					
	***							
17. 12	31. 30							
17. 37	31. 40							
17. 47	30. 35							
19. 5	32. 30							
19. 20	31. 50							
	***							
19. 57	32. 40							
20. 12	32. 30							
20. 29	34. 10							
20. 43	33. 35							
22. 15	34. 55							
22. 33	36. 30							
23. 15	37. 35							
23. 26	39. 30							
23. 59	39. 15							
July 4		July 4		July 4		July 4		
0. 0	21. 39. 15	0. 0	·1086	1. 5	·00655	1. 40	66 ·0	67 ·0
1. 22	38. 35	0. 43	·1079	5. 50	·00116	3. 40	66 ·7	68 ·0
1. 40	42. 0	1. 44	·1085		·00178	9. 40	68 ·0	69 ·0
1. 56	41. 30	3. 40	·1091	9. 54	·00141	23. 10	65 ·0	66 ·0
2. 28	42. 40	4. 19	·1085	11. 59	·00234			
	***	6. 30	·1090	16. 52	·00602			
6. 9	30. 35	7. 7	·1086	19. 15	·00687			
6. 58	30. 20	7. 25	·1091	20. 30	·00704			
7. 17	31. 30	8. 10	·1091	23. 31	·00605			
8. 56	32. 55	8. 37	·1089					
9. 15	32. 30	11. 30	·1096					
9. 58	34. 0	14. 15	·1093					
10. 13	35. 30	15. 13	·1098					
11. 23	36. 50	19. 0	·1096					
11. 48	35. 30	22. 55	·1072					
12. 52	35. 0	23. 59	·1071					
14. 4	35. 30							
15. 37	36. 30							
15. 51	35. 0							
16. 16	35. 0							
17. 58	31. 0							
18. 15	31. 30							
	***							
19. 42	29. 0							
20. 37	28. 45							
	***							
22. 39	33. 30							
23. 7	34. 0							
23. 59	36. 0							
July 5		July 5		July 5		July 5		
0. 0	21. 36. 0	0. 0	·1071	0. 0	·00592	12. 10	64 ·0	66 ·0
0. 13	35. 35	1. 14	·1075	4. 24	·00219	12. 40	67 ·0	68 ·3

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 5		July 5		July 5		July 5		
h m	° ′ ″	h m		h m		h m	°	°
0. 39	21. 36. 50	3. 29	·1095	5. 37	·00138	13. 40	66 ·4	67 ·9
0. 58	36. 45	7. 9	·1094		·00235	14. 40	66 ·2	67 ·8
1. 12	38. 0	7. 45	·1099	9. 24	·00165	15. 40	66 ·2	67 ·5
1. 20	37. 30	8. 7	·1096	10. 45	·00194	16. 40	66 ·0	67 ·4
1. 45	40. 0	8. 40	·1100	15. 26	·00453	17. 40	66 ·0	67 ·3
1. 58	40. 0	14. 24	·1098	17. 35	·00536	18. 40	66 ·0	67 ·3
2. 52	42. 55	15. 15	·1093	20. 0	·00560	19. 40	66 ·0	67 ·2
4. 36	40. 40	16. 50	·1094	21. 21	·00549	20. 40	66 ·0	67 ·2
4. 52	39. 30	18. 1	·1098	22. 15	·00504	21. 40	68 ·0	68 ·3
7. 29	36. 10	19. 21	·1093	23. 30	·00362	22. 40	67 ·5	67 ·8
7. 45	36. 50	20. 20	·1088			23. 40	68 ·0	68 ·0
8. 42	37. 10	22. 21	·1071					
9. 10	35. 30	23. 59	·1058					
11. 50	36. 50							
12. 14	34. 30							
13. 0	36. 30							
13. 26	34. 40							
14. 6	34. 40							
14. 42	32. 20							
15. 53	31. 45							
16. 22	30. 30							
20. 10	29. 50							
20. 35	27. 30							
20. 56	26. 40							
21. 12	27. 30							
21. 39	26. 20							
21. 58	27. 50							
22. 22	27. 30							
23. 59	29. 50							
July 6		July 6		July 6		July 6		
0. 0	21. 29. 50	0. 0	·1058	1. 13	·00163	0. 40	68 ·0	68 ·0
	***		***	2. 3	·00102	1. 40	68 ·0	68 ·4
1. 0	32. 50	4. 29	·1074		·00198	2. 40	68 ·8	69 ·5
1. 36	36. 30		***	5. 25	·00237	3. 40	69 ·0	69 ·7
2. 0	33. 40	5. 12	·1070	6. 11	·00195	4. 40	69 ·0	69 ·6
2. 19	34. 0		***	7. 21	·00214	5. 40	69 ·0	69 ·5
2. 30	32. 20	6. 51	·1086	8. 53	·00340	6. 40	69 ·0	69 ·4
2. 52	33. 50	7. 23	·1079	10. 30	·00539	7. 40	68 ·6	69 ·0
3. 0	33. 5		***	14. 0	·01183	8. 40	67 ·0	68 ·2
3. 15	34. 30	13. 30	·1098		·01117	9. 40	66 ·5	67 ·5
3. 41	32. 30	15. 36	·1097	17. 49	·01149	10. 40	65 ·5	67 ·0
3. 59	34. 40	18. 55	·1107	19. 45	·01129	11. 40	64 ·5	66 ·5
4. 27	33. 30	22. 7	·1091	20. 40	·01093	21. 40	59 ·7	61 ·5
4. 48	34. 30	23. 32	·1083	21. 32	·01120			
5. 13	32. 45	23. 59	·1084		·01064			
5. 43	34. 30			23. 59	·01041			
5. 57	33. 10							
	***							
6. 48	32. 55							
7. 3	34. 0							
7. 36	30. 30							
	***							
8. 7	31. 10							
8. 18	32. 20							
8. 29	32. 15							
8. 54	33. 50							
9. 2	33. 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.
July 6 h m	° ′ ″
9. 18	21. 34. 45
9. 52	32. 50
10. 27	34. 30 ***
12. 56	35. 5 ***
13. 37	34. 0
13. 51	34. 35
14. 37	34. 10
15. 14	36. 15 ***
16. 36	33. 30
16. 47	34. 0 ***
18. 12	33. 0 ***
18. 52	34. 40 ***
19. 26	33. 40 ***
21. 57	34. 45 ***
23. 59	38. 30
July 7	
0. 0	21. 38. 30
1. 10	41. 40
1. 45	40. 20
3. 13	39. 40
3. 29	41. 10
3. 49	39. 50
3. 56	40. 40
4. 9	39. 0
4. 36	39. 50
4. 52	41. 0
5. 30	38. 0
6. 8	32. 20
6. 28	34. 40 ***
6. 45	33. 0
7. 14	33. 40
7. 26	32. 50
8. 28	33. 45
8. 44	33. 0
9. 11	34. 0
9. 44	33. 0
10. 16	33. 0
10. 38	32. 35
10. 43	33. 0
11. 0	32. 0
11. 15	33. 0
11. 48	29. 45
11. 57	31. 10
12. 17	29. 0
12. 45	31. 0
13. 40	26. 0
14. 9	28. 0
14. 30	25. 30

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
July 7 h m	
0. 0	·1084
1. 48	·1079
2. 7	·1091
2. 35	·1089
3. 17	·1078
3. 22	·1085
3. 37	·1088
4. 0	·1079
4. 31	·1084
4. 50	·1074
5. 0	·1078
5. 16	·1075
5. 30	·1063
5. 37	·1068
6. 6	·1077
6. 9	·1084
6. 12	·1084
6. 16	·1088
6. 24	·1088
6. 31	·1083
6. 39	·1086
6. 49	·1084
7. 5	·1086
7. 10	·1094
7. 39	·1097
8. 45	·1092
9. 6	·1093
9. 53	·1092
10. 8	·1089
10. 21	·1093
10. 28	·1084
10. 40	·1094
10. 48	·1087

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
July 7 h m	
0. 53	·01014
2. 47	·00895
3. 30	·00765
4. 21	·00543
6. 0	·00213
6. 52	·00089
7. 49	·00118
11. 1	·00041
13. 26	·00244
15. 10	·00485
18. 39	·01096
	·01032
21. 0	·01040
22. 24	·01068
23. 59	·00997

Göttingen Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V. F. Magnet.
July 7 h m	°	°
1. 40	61 ·7	63 ·0
3. 40	63 ·4	64 ·7
9. 40	65 ·2	67 ·2
21. 44	59 ·4	60 ·7

Göttingen Mean Solar Time.	Western Declination.
July 7 h m	° ′ ″
15. 12	21. 29. 50
15. 40	28. 40
16. 25	29. 0
16. 52	31. 20
17. 2	30. 20
17. 14	31. 30
17. 26	29. 55
17. 39	31. 40 ***
18. 44	30. 50
18. 53	32. 0
18. 59	31. 30
19. 10	32. 40
19. 24	31. 10
20. 10	32. 20
20. 37	30. 10 ***
22. 14	31. 0 ***
23. 47	33. 40
July 8	
0. 52	21. 37. 30
1. 43	34. 50 ***
3. 39	32. 0
3. 53	32. 35 ***
5. 4	31. 30
5. 30	32. 45
5. 43	31. 35
6. 13	30. 30
6. 36	32. 20
7. 0	31. 30
7. 13	33. 0 ***
7. 40	33. 30
7. 45	32. 0 ***
8. 15	32. 10
8. 36	33. 30 ***
9. 10	32. 50
10. 13	34. 0
10. 21	33. 5
10. 43	36. 0 ***
11. 21	31. 50 ***
16. 0	32. 40 ***
17. 35	29. 20 ***
17. 53	27. 35
18. 42	28. 30
18. 49	30. 0
19. 12	26. 0 ***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
July 7 h m	
11. 24	·1089
11. 27	·1093
11. 50	·1090
12. 4	·1093
12. 25	·1084
12. 52	·1089
13. 2	·1084
13. 13	·1086
13. 55	·1084
14. 37	·1094
15. 0	·1092
15. 8	·1096
15. 15	·1093
16. 7	·1097 ***
18. 53	·1094 ***
19. 2	·1090
19. 10	·1092
19. 22	·1083
23. 49	·1070
July 8	
0. 40	·1085
3. 33	·1077
4. 0	·1081
4. 10	·1079
4. 27	·1085
5. 19	·1079
6. 12	·1086 ***
6. 51	·1086 ***
7. 11	·1078 ***
8. 15	·1092
8. 40	·1083
9. 4	·1089 ***
9. 55	·1087 ***
10. 20	·1098 ***
10. 44	·1075
11. 10	·1078
11. 22	·1085
15. 31	·1092
16. 23	·1096
16. 31	·1100
16. 46	·1097 ***
18. 37	·1098
18. 58	·1090
19. 10	·1086 ***
19. 24	·1076 ***
20. 0	·1079

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
July 8 h m	
0. 56	·00943
2. 30	·00806
4. 35	·00500
6. 47	·00136
	·00160
8. 30	·00147
11. 6	·00094
12. 23	·00105
13. 19	·00229
18. 15	·01120
	·01076
19. 49	·01080
21. 41	·01102
	·00965
22. 51	·00928
23. 59	·00783

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 8 h m	°	°
1. 45	61 ·4	62 ·7
3. 40	62 ·5	64 ·3
9. 40	64 ·9	66 ·4
21. 40	61 ·1	61 ·7

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 8		July 8						
h m	° ′ ″	h m		h m		h m	°	°
20. 10	21. 29. 20	20. 35	·1082					
20. 15	32. 40	21. 47	·1074					
	***	22. 36	·1079					
22. 0	32. 50	23. 16	·1075					
	***							
23. 13	37. 40							
23. 25	37. 0							
	***							
23. 59	38. 25							
July 9		July 9		July 9		July 9		
0. 0	21. 38. 25	0. 0	·1060	1. 27	·00416	1. 40	63 ·4	65 ·0
	***	0. 16	·1059	2. 46	·00214	3. 40	65 ·6	67 ·7
0. 30	41. 30	0. 27	·1069	7. 24	·00354	9. 40	70 ·5	71 ·5
0. 49	41. 30	1. 27	·1069	11. 0	·00285	21. 40	63 ·6	65 ·2
1. 36	36. 10	1. 36	·1073	11. 39	·00354			
	***	2. 54	·1076	15. 30	·00776			
3. 36	36. 30	3. 7	·1079	18. 18	{·01310			
4. 0	37. 40	3. 25	·1077		{·01224			
4. 13	37. 0	4. 8	·1083	20. 9	·01229			
4. 37	38. 20	4. 24	·1082	22. 15	·01244			
4. 51	35. 30	4. 37	·1076	23. 59	·01069			
5. 5	34. 20	5. 0	·1071					
5. 21	35. 0	5. 14	·1078					
5. 36	34. 0	5. 29	·1071					
5. 55	36. 30	5. 41	·1073					
6. 15	34. 30	5. 54	·1093					
6. 43	35. 0	6. 2	·1091					
7. 15	26. 0	6. 8	·1095					
	***	6. 33	·1081					
7. 57	30. 10	6. 45	·1081					
	***	7. 7	·1070					
8. 44	29. 40	7. 27	·1088					
9. 30	33. 0	7. 40	·1089					
10. 1	31. 30	8. 6	·1078					
10. 25	33. 0	8. 26	·1081					
10. 32	32. 0	8. 52	·1079					
	***	10. 48	·1081					
11. 25	32. 30	11. 15	·1079					
11. 40	30. 0	12. 1	·1080					
12. 0	29. 55	12. 32	·1092					
12. 13	31. 0	13. 0	·1087					
12. 25	29. 0	13. 44	·1089					
	***	14. 0	·1086					
13. 9	33. 30	17. 21	·1092					
	***	18. 54	·1091					
14. 6	32. 0	19. 30	·1086					
15. 3	34. 50	20. 52	·1086					
	***	21. 49	·1081					
15. 21	33. 10	23. 0	·1068					
	***	23. 59	·1066					
17. 56	31. 45							
19. 21	29. 10							
	***							
20. 35	25. 25							
20. 52	26. 10							
21. 10	25. 30							
22. 5	29. 10							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 9								
h m	° ′ ″	h m		h m		h m	°	°
22. 20	21. 28. 10							
22. 25	29. 0							
22. 51	29. 0							
23. 43	33. 0							
23. 59	32. 40							
July 10		July 10		July 10		July 10		
0. 0	21. 32. 40	0. 0	·1066	1. 12	·00816	1. 40	68 ·0	69 ·3
0. 13	33. 20	1. 22	·1066	3. 5	{·00304	3. 40	70 ·6	72 ·2
0. 24	34. 50	2. 34	·1072		{·00382	9. 40	70 ·0	71 ·0
1. 13	33. 35	2. 52	·1064	9. 39	·00396	21. 40	66 ·7	68 ·2
2. 30	35. 0	3. 18	·1062	10. 34	·00449			
2. 41	34. 0	3. 51	·1082	16. 20	{·01381			
2. 54	35. 30	4. 7	·1080		{·01277			
3. 0	34. 50		***	20. 9	·01323			
3. 12	37. 10	4. 25	·1088	22. 0	·01298			
3. 17	35. 0	4. 44	·1086	23. 59	·01130			
3. 51	40. 40		***					
4. 9	39. 45	4. 55	·1080					
4. 15	40. 50	5. 9	·1091					
4. 22	39. 30	5. 12	·1086					
4. 30	40. 35	5. 22	·1090					
	***	5. 32	·1092					
5. 51	34. 20	5. 48	·1079					
6. 2	34. 35	5. 56	·1084					
6. 15	32. 40	6. 4	·1082					
	***	6. 47	·1096					
6. 59	31. 10	6. 58	·1085					
7. 8	32. 30	7. 8	·1096					
7. 25	31. 45	7. 26	·1088					
7. 58	33. 0	8. 0	·1092					
8. 5	32. 30	8. 9	·1100					
8. 11	33. 0	8. 16	·1092					
	***	8. 31	·1092					
8. 45	29. 40	8. 38	·1096					
9. 7	31. 0	9. 6	·1092					
9. 13	30. 0	9. 11	·1096					
10. 0	31. 50	9. 37	·1089					
10. 14	33. 30	9. 47	·1087					
10. 52	32. 50	9. 58	·1091					
11. 22	34. 0	10. 40	·1083					
12. 20	33. 20	11. 26	·1091					
12. 46	33. 50	11. 40	·1095					
13. 14	29. 45	12. 22	·1091					
13. 35	31. 30	12. 42	·1097					
13. 41	31. 10	12. 49	·1109					
13. 54	33. 0	13. 0	·1105					
14. 25:	31. 0	13. 12	·1110					
15. 0	32. 30	13. 47	·1099					
15. 40	32. 10	15. 26	·1104					
15. 58	33. 50	16. 5	·1096					
16. 11	34. 0	17. 18	·1102					
16. 25	36. 30	18. 0	·1100					
16. 43	36. 40	19. 6	·1105					
17. 22	39. 40	20. 0	·1100					
17. 39	39. 0	20. 34	·1094					
17. 52	39. 50	21. 24	·1079					
18. 20	39. 0	23. 15	·1067					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 10		July 10						
h m	° ′ ″	h m		h m		h m	°	°
18. 40	21. 37. 0	23. 59	·1066					
18. 53	36. 50							
19. 32	34. 0							
19. 40	35. 0							
	***							
20. 30	34. 20							
	***							
20. 45	32. 50							
	***							
21. 43	32. 0							
	***							
22. 6	30. 30							
	***							
23. 21	31. 0							
	***							
23. 45	32. 50							
23. 59	32. 10							
July 11		July 11		July 11		July 11		
0. 0	21. 32. 10	0. 0	·1066	1. 6	·00982	1. 40	70 ·1	71 ·4
	***	2. 22	·1065	3. 7	·00536	3. 40	71 ·3	73 ·0
1. 43	33. 20	2. 38	·1064		·00984	9. 40	73 ·0	74 ·4
1. 52	35. 20	3. 27	·1070	5. 30	·00660	22. 32	66 ·0	67 ·8
	***	3. 39	·1068	6. 51	·00618			
3. 59	34. 10	3. 54	·1071	10. 24	·00558			
4. 15	35. 30	4. 7	·1066	10. 46	·00600			
4. 29	34. 0	4. 16	·1070	10. 53	·00554			
	***	4. 27	·1067	11. 32	·00560			
5. 10	33. 30	5. 8	·1071	11. 50	·00642			
	***	5. 19	·1076	15. 14	·01318			
5. 39	34. 25	5. 32	·1066	16. 24	·01261			
	***	5. 38	·1070	17. 30	·01257			
6. 10	32. 30	5. 55	·1068	21. 50	·01316			
6. 15	33. 20	6. 6	·1072	23. 0	·01194			
6. 22	32. 35	6. 11	·1069					
6. 30	33. 50	6. 16	·1073					
6. 42	32. 50	6. 24	·1069					
	***	6. 30	·1079					
8. 15	34. 20	7. 0	·1090					
8. 37	32. 40	7. 16	·1089					
9. 45	29. 30	7. 29	·1079					
10. 8	31. 30	7. 52	·1105					
10. 42	22. 30	8. 0	·1105					
11. 5	25. 10	8. 7	·1098					
	(†)	8. 12	·1102					
13. 50	32. 45	8. 30	·1082					
14. 11	32. 20	8. 46	·1083					
14. 19	32. 50	8. 55	·1079					
14. 43	32. 0	9. 6	·1083					
15. 1	34. 0	10. 7	·1080					
15. 21	33. 0	10. 29	·1063					
15. 30	33. 35	10. 39	·1067					
16. 2	31. 5	10. 40	·1096					
16. 24	31. 0	10. 52	·1083					
16. 43	29. 40	10. 57	·1089					
17. 7	31. 30	11. 8	·1075					
17. 30	31. 0	11. 16	·1085					
	***	11. 37	·1045					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 11		July 11						
h m	° ′ ″	h m		h m		h m	°	°
18. 22	21. 31. 30	12. 4	·1058					
18. 55	34. 0	12. 16	·1060					
	***	12. 38	·1069					
19. 36	32. 20	13. 24	·1064					
20. 27	35. 0	13. 39	·1069					
20. 53	33. 0	14. 13	·1074					
21. 35	29. 35	15. 8	·1069					
21. 58	30. 10	15. 30	·1078					
	(†)	15. 54	·1077					
		17. 3	·1090					
		17. 37	·1079					
		18. 15	·1075					
		19. 6	·1079					
		20. . 3	·1063					
		20. 21	·1055					
		21. 0	·1049					
		22. 37	·1060					
			(†)					
July 12		July 12		July 12		July 12		
9. 15	21. 32. 16*	9. 15	·1060*	0. 0	·01062	9. 15	79 ·4	80 ·0
21. 45	26. 3*	21. 45	·1065*	0. 54	·00840	12. 40	75 ·1	77 ·5
				2. 8	·00444	13. 40	73 ·5	75 ·0
					·00506	14. 40	71 ·5	74 ·0
				4. 15	·00621	15. 40	69 ·0	72 ·1
				7. 54	·00635	16. 40	69 ·5	72 ·5
				9. 30	·00597	17. 40	68 ·5	72 ·5
				12. 49	·01008	18. 40	67 ·4	70 ·7
				14. 37	·01456	19. 40	67 ·8	71 ·0
					·01404	20. 40	69 ·1	71 ·6
				22. 15	·01375	21. 40	70 ·5	70 ·2
				23. 0	·01318	22. 40	71 ·4	71 ·1
				23. 18	·01215	23. 40	72 ·6	72 ·5
July 13		July 13		July 13		July 13		
0. 49	21. 32. 0		(†)	1. 0	·00884	0. 40	73 ·8	74 ·0
1. 2	32. 0	1. 15	·1049	2. 20	·00465	1. 40	75 ·0	75 ·3
1. 15	30. 25	2. 39	·1057	5. 29	·00625	2. 40	76 ·3	77 ·0
1. 40	33. 10	2. 52	·1052		·01117	3. 40	77 ·0	78 ·0
1. 49	31. 10	3. 10	·1056	7. 10	·01018	4. 40	78 ·6	79 ·3
	***	4. 38	·1052	9. 0	·00980	5. 40	79 ·0	80 ·0
2. 44	31. 30	4. 54	·1058	9. 44	·01015	6. 40	79 ·6	80 ·1
2. 57	30. 30	5. 11	·1054	10. 39	·01134	7. 40	79 ·5	80 ·0
3. 13	32. 30	5. 47	·1060	12. 27	·01420	8. 40	79 ·0	80 ·0
	***	6. 7	·1058	14. 0	·01442	9. 40	78 ·7	79 ·5
3. 44	29. 45	6. 32	·1064	16. 0	·01415	10. 40	77 ·5	77 ·7
3. 52	32. 30	8. 38	·1062	21. 25	·01433	11. 40	76 ·2	77 ·7
4. 5	30. 30	11. 25	·1071	22. 6	·01403	21. 40	71 ·9	72 ·0
	***	11. 46	·1079	23. 0	·01307			
4. 50	30. 30	12. 25	·1077	23. 59	·01137			
5. 6	28. 45	12. 40	·1079					
5. 22	31. 0	12. 52	·1083					
	***	13. 0	·1080					
6. 2	29. 0	14. 0	·1086					
7. 0	32. 35	14. 8	·1091					
8. 9	31. 30	14. 22	·1094					
8. 38	32. 10	14. 31	·1093					
9. 13	36. 10	14. 40	·1088					

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

July 12. The Photographic Traces of the Declination and Horizontal Force Magnets were too faint for use.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 13		July 13						
h m	° ′ ″	h m		h m		h m	°	°
10. 13	21. 36. 0	15. 22	·1092					
11. 10	32. 55	15. 42	·1086					
11. 43	34. 15	16. 6	·1086					
12. 20	32. 0	16. 32	·1084					
13. 25	33. 50	17. 7	·1087					
13. 47	32. 35	17. 56	·1084					
14. 10	34. 50	18. 41	·1086					
14. 29	33. 0	19. 39	·1082					
15. 0	34. 50	22. 12	·1063					
15. 40	32. 30	22. 41	·1064					
16. 19	30. 30	23. 59	·1054					
16. 47	31. 0							
17. 14	29. 0							
18. 0	32. 20							
18. 21	31. 0							
18. 35	31. 30							
19. 25	30. 0							
20. 2	27. 30							
20. 14	25. 30							
20. 41	25. 10							
20. 59	26. 50							
21. 12	25. 50							
22. 45	29. 40 (†)							
July 14		July 14		July 14		July 14		
	(†)	0. 0	·1054	1. 2	·01011	1. 40	76 ·0	76 ·7
1. 40	21. 32. 42*	1. 37	·1060	2. 48	·00504	3. 40	78 ·7	79 ·0
2. 7	34. 30	2. 12	·1049		·00560	9. 40	79 ·3	80 ·0
2. 53	33. 10	2. 45	·1054	3. 33	·00556	21. 40	70 ·4	69 ·8
4. 22	36. 30	3. 53	·1049		·01038			
4. 40	35. 30	5. 8	·1055	5. 12	·00763			
4. 52	36. 20	6. 2	·1054	6. 0	·00701			
6. 19	33. 30	6. 37	·1060	8. 4	·00638			
6. 45	36. 0	7. 34	·1061	9. 41	·00760			
7. 54	34. 30	8. 12	·1057	10. 35	·00884			
8. 19	34. 0	8. 27	·1064	11. 24	·01076			
9. 19	28. 40	8. 38	·1057	12. 32	·01377			
10. 39	35. 30	9. 38	·1057	12. 48	·01355			
11. 29	35. 10	9. 47	·1061	14. 15	·01315			
12. 13	37. 30	9. 52	·1058	17. 6	·01317			
13. 14	41. 40	10. 25	·1061	18. 14	·01304			
13. 30	40. 20	10. 32	·1069	21. 0	·01338			
13. 50	40. 20	10. 57	·1066	22. 10	·01258			
14. 15	38. 0	12. 34	·1078	22. 52	·01155			
15. 22	39. 35	12. 52	·1089	23. 59	·00920			
15. 36	39. 0	14. 48	·1083					
17. 17	38. 50	18. 39	·1095					
17. 44	39. 20	21. 6	·1074					
18. 54	39. 30	22. 15	·1053					
19. 57	38. 30	23. 18	·1053					
21. 2	38. 40	23. 59	·1057					
21. 45	33. 40							
22. 44	35. 0							
22. 57	36. 30							
23. 13	36. 30							
23. 59	39. 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 15		July 15		July 15		July 15		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 39. 10	0. 0	·1057	1. 0	·00633	1. 40	76 ·3	76 ·3
1. 0	41. 0	1. 11	·1054	1. 37	·00421	3. 40	79 ·0	79 ·3
	***		***		·00455	9. 40	79 ·0	79 ·3
3. 22	36. 45	1. 48	·1047	3. 45	·00556	21. 40	67 ·8	68 ·5
3. 44	34. 0		***	8. 0	·00560			
4. 0	34. 35	2. 1	·1052	9. 38	·00677			
	***		***	10. 50	·00841			
4. 36	32. 30	3. 10	·1052	12. 0	·01095			
	***		***	13. 21	·01354			
5. 15	32. 50	5. 29	·1037	15. 19	·01350			
5. 30	31. 10		***	18. 45	·01298			
5. 42	32. 30	6. 45	·1037	22. 36	·01305			
5. 58	31. 0		***	23. 59	·01260			
	***	8. 24	·1051					
6. 41	31. 30		***					
	***	8. 42	·1048					
7. 51	34. 30		***					
	***	14. 53	·1075					
8. 12	33. 10		***					
	***	17. 40	·1091					
11. 12	37. 20		***					
15. 16	41. 15	18. 51	·1095					
16. 55	39. 45		***					
17. 35	40. 40	20. 48	·1088					
17. 58	39. 0		***					
18. 15	40. 20	23. 22	·1071					
20. 12	38. 30							
21. 14	36. 0							
21. 43	36. 5							
22. 11	37. 35							
22. 45	37. 30							
23. 45	38. 40							
July 16		July 16		July 16		July 16		
0. 15	21. 38. 40	0. 52	·1066	0. 20	·01173	1. 40	71 ·0	71 ·2
1. 9	39. 10		***	2. 15	·00996	3. 40	72 ·6	73 ·5
1. 22	40. 20	3. 38	·1052	3. 45	·00736	9. 40	72 ·5	73 ·2
2. 22	39. 45	4. 7	·1056	6. 0	·00481	21. 40	65 ·3	64 ·8
2. 31	40. 30	4. 24	·1056	7. 30	·00429			
2. 45	39. 40	4. 39	·1064	8. 33	·00420			
2. 59	40. 35	5. 16	·1068	9. 45	·00456			
	***	5. 22	·1054	10. 33	·00525			
4. 10	36. 30	9. 0	·1076	13. 7	·00944			
	***	9. 57	·1074	15. 25	·01282			
5. 10	39. 0	12. 26	·1081		·01168			
6. 0	35. 0	13. 7	·1090	17. 39	·01218			
6. 44	35. 30	14. 9	·1081	20. 45	·01208			
7. 5	34. 30	14. 17	·1084	22. 49	·01235			
	***	15. 2	·1079	23. 59	·01194			
9. 43	36. 0	15. 15	·1081					
10. 15	38. 30	15. 22	·1085					
12. 32	41. 20	15. 36	·1081					
13. 26	37. 40	16. 4	·1092					
13. 52	37. 30	17. 0	·1086					
14. 22	36. 30	19. 6	·1092					
	***	19. 8	·1096					
15. 56	40. 30	21. 27	·1089					
16. 32	36. 50	21. 36	·1083					

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 16		July 16						
h m	° ′ ″	h m		h m		h m	°	°
17. 42	21. 38. 30	22. 30	·1084					
18. 4	37. 50	23. 24	·1075					
18. 18	39. 0							
18. 56	39. 0							
19. 36	38. 20							
20. 45	39. 50							
21. 13	41. 30							
21. 52	39. 50							
22. 13	40. 30							
23. 15	38. 40							
	***							
23. 59	39. 30							
July 17		July 17		July 17		July 17		
0. 0	21. 39. 30	0. 0	·1074	1. 15	·01089	1. 40	68 ·7	68 ·6
	***	1. 26	·1069	2. 15	·00894	3. 40	71 ·0	71 ·2
2. 12	38. 40	2. 42	·1066	3. 53	·00401	9. 40	73 ·0	74 ·1
	***		***	4. 52	·00183	21. 44	66 ·6	66 ·4
5. 25	37. 30	3. 0	·1060		·00220			
5. 52	38. 10		***	7. 35	·00284			
6. 7	37. 30	4. 25	·1066	10. 23	·00240			
6. 36	38. 40		***	10. 47	·00266			
6. 57	37. 30	5. 15	·1064	11. 24	·00275			
7. 24	37. 20		***	12. 15	·00369			
8. 0	41. 40	6. 22	·1069	16. 51	·01247			
8. 25	40. 20	6. 54	·1068		·01135			
8. 56	41. 50	7. 39	·1086	22. 0	·01217			
9. 59	41. 30	8. 0	·1075	22. 24	·01213			
10. 14	42. 20	8. 32	·1084	23. 59	·01015			
11. 13	39. 0	9. 46	·1069					
11. 27	39. 40	10. 10	·1083					
11. 30	39. 10	10. 40	·1076					
	***	11. 14	·1096					
12. 15	43. 30	11. 25	·1087					
13. 0	38. 30	11. 36	·1091					
13. 27	40. 20	12. 14	·1079					
13. 40	39. 5	12. 40	·1086					
14. 14	41. 50	13. 11	·1086					
14. 24	37. 20	13. 39	·1090					
16. 24	39. 30	13. 53	·1087					
16. 36	38. 40	14. 28	·1101					
16. 57	38. 40	15. 12	·1090					
17. 11	38. 0	15. 48	·1096					
19. 6	39. 10	16. 10	·1092					
19. 22	39. 50	18. 59	·1101					
19. 43	38. 25	19. 7	·1095					
20. 22	40. 25	19. 10	·1097					
20. 54	37. 30	20. 37	·1085					
21. 21	41. 30	21. 9	·1062					
21. 58	39. 20	21. 34	·1054					
	***	23. 11	·1064					
22. 37	38. 25	23. 30	·1058					
	***	23. 48	·1061					
23. 59	42. 0	23. 59	·1059					
July 18		July 18		July 18		July 18		
0. 0	21. 42. 0	0. 0	·1059	3. 0	·00334	1. 40	71 ·1	71 ·7
1. 45	41. 30	0. 24	·1056	7. 26	·00381	3. 40	74 ·0	75 ·6
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 18		July 18		July 18		July 18		
h m	° ′ ″	h m		h m		h m	°	°
3. 41	21. 41. 20	1. 55	·1060	9. 45	·00329	9. 40	75 ·6	76 ·0
3. 53	39. 55	2. 9	·1056	10. 21	·00338	22. 45	70 ·0	73 ·0
4. 30	40. 30	3. 31	·1055	11. 10	·00400			
5. 19	38. 40	3. 40	·1069	16. 0	·01402			
6. 0	38. 30	4. 0	·1053		·01278			
6. 45	36. 0	4. 47	·1061	21. 7	·01305			
	***	5. 16	·1054	23. 30	·01182			
7. 26	36. 0	7. 7	·1060					
7. 56	37. 50	7. 22	·1067					
9. 11	38. 30	9. 27	·1066					
9. 44	35. 40	9. 45	·1069					
10. 39	39. 50	12. 0	·1068					
10. 46	39. 40	12. 14	·1073					
11. 2	40. 50	13. 39	·1074					
11. 15	40. 0	14. 42	·1079					
11. 41	40. 20	15. 10	·1077					
11. 57	41. 30	16. 4	·1086					
12. 49	42. 0	18. 43	·1095					
14. 41	41. 30	19. 6	·1086					
15. 13	43. 0	19. 27	·1084					
	***	19. 43	·1090					
16. 1	42. 40	20. 10	·1085					
16. 15	41. 30	20. 22	·1089					
17. 22	40. 10	20. 39	·1081					
17. 40	39. 25	20. 48	·1082					
18. 10	38. 50	21. 20	·1070					
18. 31	39. 20	22. 55	·1061					
18. 49	38. 30	23. 17	·1062					
19. 11	39. 0							
20. 0	38. 50							
20. 29	36. 55							
21. 16	37. 20							
21. 43	36. 40							
22. 47	36. 55							
23. 3	37. 40							
July 19		Juy 19		July 19		July 19		
0. 14	21. 38. 20	0. 28	·1060	0. 0	·01215	10. 30	77 ·5	78 ·6
3. 0	37. 50	1. 30	·1055	2. 17	·00977	12. 40	74 ·6	76 ·7
3. 53	36. 45	1. 47	·1059	2. 45	·00922	13. 40	73 ·8	74 ·5
4. 41	36. 30	3. 0	·1059	3. 30	·00766	14. 40	72 ·7	74 ·0
5. 45	29. 0	3. 10	·1054	5. 12	·00320	15. 40	71 ·9	73 ·5
5. 53	29. 0	5. 25	·1055		·00388	16. 40	70 ·6	72 ·7
6. 10	27. 50	6. 0	·1052	6. 45	·00436	17. 40	69 ·4	72 ·0
6. 39	31. 30	6. 13	·1057	8. 30	·00440	18. 40	68 ·7	70 ·9
9. 40	32. 30	6. 46	·1059	11. 26	·00374	19. 40	68 ·4	70 ·3
10. 8	34. 10	7. 9	·1045	13. 9	·00533	20. 40	70 ·2	70 ·3
10. 39	33. 5	7. 18	·1047	15. 0	·00842	21. 40	71 ·2	70 ·4
11. 43	37. 20	7. 44	·1044	17. 42	·01396	22. 40	72 ·0	71 ·5
13. 1	36. 0	8. 15	·1050		·01294	23. 40	73 ·0	72 ·7
17. 26	36. 55	9. 30	·1047	19. 21	·01308			
17. 45	36. 30	12. 37	·1060		·01182			
18. 18	36. 45	14. 30	·1064	21. 50	·01265			
18. 48	35. 45	18. 16	·1079	23. 59	·01175			
19. 23	36. 50	20. 12	·1073					
20. 31	36. 45	21. 9	·1071					
22. 12	38. 40	23. 48	·1053					

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.
July19 h m	° ′ ″	h m		h m		h m	°	°
22. 45	21. 35. 50							
23. 59	40. 30							
July20		July20		July20		July20		
0. 0	21. 40. 30	1. 15	·1044	1. 30	·00836	0. 40	74 ·0	73 ·6
1. 26	38. 55		***	2. 55	{·00422	1. 40	75 ·0	74 ·8
2. 0	39. 25	1. 58	·1048		{·00445	2. 40	76 ·4	76 ·3
2. 40	38. 30		***	4. 50	·00496	3. 40	77 ·0	77 ·2
	***	2. 22	·1045	8. 30	·00415	4. 40	78 ·2	78 ·5
3. 5	38. 30		***	9. 12	·00434	5. 40	78 ·9	79 ·0
	***	2. 55	·1049	10. 19	·00594	6. 40	78 ·9	79 ·3
3. 35	36. 30		***	13. 48	·01315	7. 40	78 ·0	79 ·0
	***	5. 27	·1051	19. 15	·01220	8. 40	77 ·8	78 ·0
3. 43	37. 30		***	22. 56	·01237	9. 40	76 ·2	78 ·0
	***	6. 30	·1049	23. 59	·01179	10. 40	76 ·0	77 ·6
4. 5	35. 20		***			11. 40	75 ·0	77 ·0
	***	7. 47	·1063			21. 40	68 ·0	66 ·6
4. 13	36. 30		***					
	***	8. 15	·1061					
4. 40	34. 45		***					
4. 54	35. 50	9. 11	·1064					
5. 45	33. 20		***					
6. 52	32. 20	9. 40	·1058					
7. 19	34. 50		***					
7. 26	34. 20	10. 29	·1056					
7. 45	35. 30		***					
	***	10. 43	·1062					
10. 23	32. 50		***					
11. 45	35. 20	11. 7	·1060					
12. 17	39. 0		***					
	***	12. 0	·1068					
13. 13	33. 30		***					
13. 45	37. 0	13. 22	·1066					
14. 3	36. 30		***					
14. 45	37. 30	13. 45	·1072					
15. 21:	37. 0		***					
16. 32	39. 30	16. 33	·1078					
17. 45	36. 50		***					
18. 42	35. 35	17. 14	·1083					
18. 54	36. 30		***					
19. 12	35. 50	18. 38	·1084					
19. 24	36. 40		***					
19. 42	36. 10	19. 30	·1074					
19. 53	37. 0		***					
20. 0	36. 10	20. 39	·1070					
21. 43	34. 10		***					
	***	22. 45	·1048					
23. 59	39. 0		***					
		23. 59	·1051					
July21		July21		July21		July21		
0. 37	21. 39. 30	0. 0	·1051	0. 30	·01084	1. 40	71 ·6	71 ·0
1. 7	40. 30		***	1. 55	·00885	3. 40	73 ·6	73 ·4
2. 0	40. 20	1. 2	·1051	2. 40	·00704	9. 40	72 ·7	73 ·0
2. 58	41. 0		***	4. 49	{·00182	21. 40	68 ·4	69 ·2
3. 55	39. 20	1. 18	·1048		{·00206			
4. 25	40. 30		***	6. 6	·00202			
4. 48	38. 50	2. 47	·1054	8. 15	·00138			
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July21 h m	° ′ ″	July21 h m		July21 h m		h m	°	°
7. 14	21. 36. 30	3. 39	·1055	8. 45	·00190			
8. 27	40. 5		***	11. 26	·00323			
10. 9	41. 25	5. 17	·1071	15. 23	·00918			
10. 46	40. 50		***	17. 0	·01064			
11. 27	41. 25	6. 6	·1070	18. 9	·01123			
12. 14	41. 10		***	19. 53	·01152			
12. 30	41. 40	6. 52	·1077	22. 0	·01105			
12. 44	41. 0		***	23. 59	·00964			
16. 29	39. 50	7. 5	·1075					
18. 17	36. 40		***					
19. 59	36. 55	7. 30	·1077					
20. 45	36. 45		***					
22. 41	40. 45	8. 30	·1094					
23. 57	41. 30		***					
		9. 2	·1098					
			***					
		11. 9	·1094					
			***					
		16. 8	·1105					
			***					
		18. 20	·1100					
			***					
		19. 23	·1105					
			***					
		20. 0	·1102					
			***					
		21. 17	·1079					
			***					
		22. 30	·1071					
			***					
		23. 59	·1065					
July22		July22		July22		July22		
0. 0	21. 41. 40	0. 0	·1065	1. 36	·00849	1. 40	71 ·0	71 ·7
1. 24	39. 30	2. 1	·1076	3. 10	·00642	3. 40	72 ·4	73 ·0
1. 34	38. 40	2. 54	·1079	5. 16	{·00229	9. 40	74 ·0	74 ·3
1. 42	39. 0	3. 7	·1074		{·00305	21. 40	69 ·7	69 ·7
2. 0	37. 30	3. 33	·1077	9. 52	·00231			
2. 12	38. 35	4. 37	·1069	10. 50	·00254			
2. 32	38. 30	6. 12	·1068	11. 39	·00305			
2. 57	34. 50	6. 30	·1073	14. 0	·00644			
	***	8. 2	·1078	15. 52	{·01303			
4. 23	30. 30	14. 19	·1082		{·01162			
4. 41	30. 40	14. 26	·1101	22. 0	·01179			
5. 17	28. 30	14. 39	·1093	22. 49	·01135			
5. 39	28. 40	16. 13	·1108	23. 59	·00930			
5. 51	27. 0	16. 22	·1102					
7. 0	32. 20	17. 6	·1093					
8. 50	32. 50	17. 31	·1100					
9. 14	34. 0	17. 57	·1112					
9. 51	33. 0	18. 32	·1116					
10. 13	33. 50	19. 24	·1112					
10. 39	33. 0	19. 33	·1109					
11. 9	33. 20	19. 52	·1112					
12. 4	30. 20	20. 43	·1094					
12. 45	32. 0	21. 6	·1093					
13. 6	31. 35	22. 0	·1076					
14. 8	33. 0	22. 17	·1079					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 22		July 22						
h m	° ′ ″	h m		h m		h m	°	°
14. 30	21. 34. 20	22. 30	·1070					
14. 45	32. 15	22. 38	·1078					
14. 57	32. 0	22. 45	·1071					
15. 17	32. 50	23. 7	·1079					
15. 39	33. 5	23. 22	·1076					
15. 45	32. 20							
16. 0	32. 20							
16. 11	29. 10							
16. 21	29. 5							
16. 28	27. 50							
16. 39	28. 45							
16. 52	28. 30							
17. 29	33. 35							
18. 15	26. 20							
	***							
19. 15	25. 20							
19. 30	23. 30							
	***							
19. 49	26. 35							
20. 8	24. 35							
	***							
20. 40	25. 0							
20. 58	22. 30							
21. 6	24. 0							
21. 15	22. 30							
	***							
22. 39	30. 0							
22. 44	28. 50							
	***							
23. 27	30. 30							
23. 38	32. 30							
23. 45	31. 30							
23. 59	33. 30							
July 23		July 23		July 23		July 23		
1. 40	21. 36. 14*	1. 40	·1060*	0. 0	·00958	1. 40	74·1	74·2
3. 40	40. 44*	3. 40	·1069*	1. 15	·00674	3. 40	76·0	77·4
9. 40	37. 33*	9. 40	·1078*	2. 25	·00351	9. 40	78·9	78·0
21. 40	36. 9*	21. 40	·1046*	3. 1	·00354	21. 40	72·7	70·7
				4. 0	·00427			
				5. 47	·00464			
				9. 45	·00372			
				11. 0	·00425			
				11. 36	·00461			
				15. 0	·01005			
				16. 39	{·01367 ·01276			
				19. 8	·01260			
				23. 20	·01256			
				23. 59	·01178			
July 24		July 24		July 24		July 24		
0. 0	21. 40. 0	1. 7	·1051	0. 0	·01182	1. 40	75·8	75·9
0. 39	42. 20	2. 52	·1054	0. 36	·01138	3. 40	78·7	77·2
1. 22	43. 0	3. 19	·1068	2. 39	·00706	9. 40	78·7	78·0
2. 0	41. 30	4. 34	·1049	3. 52	{·00381 ·00474	21. 40	70·1	70·7
	***	4. 55	·1062					
2. 47	41. 20	5. 30	·1051	6. 10	·00460			
3. 40	36. 30	6. 9	·1064	8. 17	·00375			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 24		July 24		July 24				
h m	° ′ ″	h m		h m		h m	°	°
3. 45	21. 37. 30	6. 54	·1062	10. 6	·00386			
4. 27	34. 0	7. 9	·1069	13. 30	·00960			
5. 1	36. 0	7. 30	·1068	15. 31	{·01375 ·01243			
5. 30	34. 35	7. 48	·1061					
10. 10	35. 30	10. 47	·1073	18. 53	·01230			
10. 28	37. 25	11. 16	·1088	22. 30	·01275			
11. 12	33. 30	11. 39	·1076	23. 48	·01186			
11. 48	38. 0	11. 48	·1079					
12. 10	36. 5	12. 15	·1072					
	***	13. 0	·1079					
12. 45	36. 50	13. 39	·1077					
13. 7	35. 20	14. 0	·1080					
14. 0	43. 30	14. 52	·1073					
14. 56	38. 20	15. 30	·1083					
16. 0	36. 30	16. 49	·1086					
16. 26	37. 30	17. 55	·1086					
16. 39	36. 30	18. 23	·1082					
17. 8	39. 45	18. 54	·1085					
17. 50	43. 0	19. 27	·1076					
18. 16	41. 30	20. 37	·1086					
19. 0	42. 35	23. 3	·1074					
20. 13	40. 50	23. 59	·1081					
20. 45	42. 0							
20. 55	41. 45							
21. 5	42. 30							
21. 28	41. 15							
21. 45	42. 30							
21. 58	41. 0							
22. 13	42. 0							
23. 0	41. 10							
23. 19	41. 40							
23. 45	39. 30							
23. 59	40. 0							
July 25		July 25		July 25		July 25		
0. 0	21. 40. 0	0. 0	·1081	1. 0	·01137	1. 40	71·8	72·0
0. 31	42. 20		***	2. 54	·01008	3. 40	72·9	73·0
0. 59	38. 20	3. 22	·1074	4. 15	·00869	9. 40	73·7	74·2
1. 57	38. 55	3. 47	·1067	6. 30	·00585	23. 15	65·0	66·0
	***	4. 19	·1070	9. 0	·00470			
3. 18	37. 20	4. 45	·1067	10. 8	·00482			
3. 37	35. 0	5. 51	·1062	12. 0	·00635			
	***	7. 9	·1071	14. 36	{·01215 ·01101			
4. 51	32. 45	7. 56	·1064					
5. 11	34. 50	8. 56	·1073	16. 21	·01135			
5. 27	31. 40	9. 23	·1066	17. 22	·01089			
5. 39	32. 0	10. 30	·1066	17. 45	·01102			
	***	10. 47	·1078	18. 20	·01076			
6. 45	29. 55	10. 57	·1071	21. 30	·01124			
	***	11. 6	·1084	23. 51	·01060			
8. 10	31. 50	11. 25	·1084					
8. 39	33. 30	12. 7	·1065					
8. 51	33. 0	12. 38	·1070					
9. 6	33. 40	13. 14	·1066					
9. 43	30. 30	13. 25	·1076					
9. 58	32. 0	14. 9	·1076					
11. 27	30. 5	14. 25	·1080					
11. 47	32. 40	14. 31	·1087					
	***							

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

July 23. The Photographic Traces of the Declination and Horizontal Force Magnets were too faint for use.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 25		July 25						
h m	° ′ ″	h m		h m		h m	°	°
12. 30	21. 27. 40	14. 43	·1089					
	***	15. 11	·1076					
13. 16	30. 15	15. 32	·1077					
13. 32	28. 10	15. 57	·1094					
13. 52	32. 40	16. 35	·1080					
14. 15	28. 0	17. 0	·1090					
14. 37	28. 30	17. 32	·1085					
15. 8	23. 35	17. 46	·1076					
	***	18. 8	·1093					
15. 52	23. 0	18. 51	·1069					
16. 15	29. 30	19. 4	·1070					
16. 36	31. 0	19. 22	·1068					
16. 51	29. 50	19. 42	·1071					
17. 0	31. 55	20. 30	·1061					
17. 15	29. 30	20. 55	·1059					
17. 40	36. 30	21. 26	·1046					
18. 21	29. 20	21. 49	·1043					
18. 41	35. 0	22. 3	·1035					
19. 10	33. 40	22. 47	·1055					
19. 25	35. 0	23. 59	·1064					
19. 39	33. 30							
19. 45	34. 25							
	***							
20. 45	31. 30							
21. 15	39. 20							
21. 32	39. 45							
21. 55	40. 50							
22. 14	39. 55							
22. 30	41. 20							
22. 52	39. 55							
23. 11	39. 55							
23. 45	36. 50							
23. 59	38. 0							
July 26		July 26		July 26		July 26		
0. 0	21. 38. 20	0. 0	·1064	0. 0	·01060	9. 45	72 ·5	73 ·0
0. 10	39. 30	0. 52	·1068	2. 5	·00836	12. 40	69 ·6	70 ·5
	***	1. 47	·1066	3. 30	·00584	13. 40	68 ·9	69 ·6
1. 42	39. 20	3. 37	·1085	5. 23	·00124	14. 40	68 ·3	68 ·9
	***	4. 23	·1081		·00142	15. 40	66 ·7	68 ·2
2. 12	40. 0	4. 43	·1082	7. 0	·00213	16. 40	66 ·0	67 ·4
	***	4. 54	·1079	9. 19	·00125	17. 40	65 ·5	66 ·8
3. 7	39. 30	5. 26	·1079	10. 35	·00154	18. 40	66 ·0	66 ·4
	***	5. 39	·1076	12. 52	·00508	19. 40	66 ·0	66 ·6
5. 27	32. 30	6. 0	·1080	17. 30	·01192	20. 40	66 ·2	66 ·6
5. 37	33. 30	6. 16	·1076		·01106	21. 40	67 ·0	66 ·7
	***	6. 43	·1075	22. 0	·01112	22. 40	68 ·0	67 ·6
6. 24	33. 25	7. 0	·1072	22. 35	·01077	23. 40	69 ·1	68 ·1
6. 41	31. 10	7. 23	·1077	22. 52	·01058			
	***	10. 39	·1078		·00530			
7. 0	29. 40	11. 54	·1087	23. 30	·00505			
7. 10	30. 20	12. 22	·1084	23. 59	·00458			
	***	12. 30	·1093					
7. 19	29. 20	12. 46	·1087					
	***	12. 55	·1091					
7. 55	29. 15	13. 15	·1084					
9. 0	32. 20	13. 33	·1088					
	***	14. 6	·1084					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 26		July 26						
h m	° ′ ″	h m		h m		h m	°	°
11. 30	21. 34. 0	14. 55	·1093					
	***	15. 44	·1086					
12. 13	33. 30	16. 52	·1094					
12. 37	34. 30	18. 12	·1090					
	***	19. 4	·1080					
13. 2	33. 0	20. 5	·1088					
	***	23. 59	·1070					
13. 28	34. 40							
	***							
14. 0	32. 50							
	***							
14. 45	34. 10							
	***							
15. 14	32. 30							
	***							
15. 45	33. 55							
	***							
16. 40	30. 0							
	***							
17. 57	29. 0							
19. 44	38. 55							
	***							
20. 23	35. 30							
21. 13	34. 0							
21. 22	34. 30							
22. 15	33. 30							
	***							
23. 59	37. 0							
July 27		July 27		July 27		July 27		
0. 0	21. 37. 0	0. 0	·1070	0. 0	·00460	0. 40	70 ·0	69 ·2
	***	1. 32	·1074	1. 0	·00295	1. 40	70 ·8	70 ·0
0. 37	38. 10	1. 51	·1069	1. 45	·00236	2. 40	71 ·8	71 ·1
0. 52	35. 50	2. 54	·1078	2. 28	·00123	3. 40	72 ·7	71 ·9
1. 22	36. 35	3. 17	·1071		·00435	4. 40	73 ·6	72 ·8
1. 38	36. 40	3. 36	·1074	4. 0	·00254	5. 40	74 ·2	73 ·4
1. 58	38. 0	4. 0	·1069	5. 42	·00233	6. 40	74 ·4	73 ·4
3. 21	38. 50	4. 9	·1076		·00561	7. 40	74 ·5	73 ·7
3. 52	37. 0	4. 14	·1072	6. 51	·00400	8. 40	74 ·2	73 ·5
4. 8	37. 30	4. 45	·1072		·00426	9. 40	74 ·5	73 ·6
	***	5. 17	·1077	7. 36	·00367	10. 40	74 ·0	73 ·1
4. 56	34. 55	5. 36	·1071		·00435	11. 40	73 ·5	73 ·0
	***	6. 0	·1077	9. 10	·00350	21. 40	68 ·7	69 ·1
6. 38	34. 45	6. 17	·1074	10. 51	·00336			
6. 52	33. 30	7. 0	·1082	12. 0	·00388			
	***	7. 52	·1082	15. 53	·00722			
8. 3	33. 10	8. 18	·1084	16. 52	·01103			
8. 15	33. 55	9. 20	·1081	22. 11	·01118			
9. 50	33. 0	16. 37	·1094	23. 59	·01080			
10. 19	33. 50	17. 45	·1092					
10. 52	33. 20	18. 39	·1091					
11. 11	33. 50	19. 24	·1088					
11. 17	33. 20	20. 38	·1094					
11. 34	33. 55	22. 52	·1090					
11. 49	32. 20	23. 59	·1091					
	***							
13. 24	34. 0							
13. 41	34. 40							
13. 52	34. 45							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 27								
h m	° ′ ″	h m		h m		h m	°	°
14. 10	21. 33. 10							
	***							
15. 9	33. 30							
15. 15	33. 0							
15. 39	33. 50							
15. 47	33. 0							
	***							
16. 39	33. 30							
17. 7	30. 50							
18. 27	31. 0							
19. 15	32. 30							
20. 15	31. 40							
20. 25	30. 30							
20. 39	31. 50							
20. 54	31. 30							
22. 10	34. 30							
22. 31	34. 30							
23. 59	36. 45							
July 28		July 28		July 28		July 28		
0. 0	21. 36. 45	0. 0	·1091	0. 0	·01080	1. 40	70 ·0	69 ·0
	***		***	0. 40	·01040	3. 40	71 ·2	71 ·6
0. 31	35. 30			1. 49	·00964	9. 40	71 ·5	73 ·0
0. 52	37. 10	2. 54	·1084	5. 17	·00457	21. 40	64 ·9	64 ·6
1. 14	34. 40	3. 11	·1078	5. 53	·00381			
	***	5. 7	·1069	7. 48	·00260			
1. 45	37. 0	5. 27	·1071		·00324			
	***	5. 44	·1065	10. 13	·00290			
3. 29	32. 45	6. 6	·1074	11. 24	·00394			
	***		***	15. 12	·01114			
4. 11	34. 30	12. 17	·1086		·01094			
	***	13. 41	·1096	17. 0	·01106			
4. 51	32. 10	14. 2	·1089	22. 18	·01043			
5. 1	32. 40	17. 55	·1100	23. 59	·00876			
	***	20. 18	·1089					
6. 15	29. 0	23. 0	·1078					
	***	23. 59	·1077					
8. 2	34. 0							
9. 1	33. 40							
	***							
10. 6	34. 50							
	***							
10. 24	33. 40							
	***							
11. 44	34. 40							
	***							
13. 0	31. 40							
13. 30	33. 0							
13. 48	32. 20							
14. 0	32. 50							
15. 22	32. 20							
15 53	33. 5							
16 31	32. 50							
16 45	33. 30							
18. 0	31. 45							
19. 19	34. 45							
	***							
20. 53	31. 30							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 28								
h m	° ′ ″	h m		h m		h m	°	°
22. 12	21. 33. 45							
	***							
22. 22	34. 45							
	***							
22. 52	35. 20							
23. 41	38. 5							
23. 58	37. 30							
July 29		July 29		July 29		July 29		
0. 0	21. 37. 35	0. 0	·1077	0. 0	·00870	1. 40	69 ·1	68 ·6
1. 5	40. 40	1. 37	·1082	1. 0	·00676	3. 40	71 ·0	72 ·4
1. 30	39. 10	2. 41	·1070	2. 5	·00383	9. 50	75 ·5	76 ·8
1. 39	39. 45	4. 24	·1073	2. 46	·00136	21. 40	67 ·0	66 ·6
1. 52	38. 20	5. 0	·1071		·00164			
2. 24	37. 40	6. 22	·1078	3. 33	·00225			
2. 32	38. 40	6. 30	·1077		·00382			
	***	6. 46	·1078	4. 18	·00344			
3. 0	37. 0	7. 4	·1075	6. 30	·00373			
3. 22	38. 10	7. 24	·1076	7. 43	·00370			
4. 1	37. 0	7. 30	·1080	9. 52	·00320			
5. 12	33. 30	8. 3	·1079	10. 18	·00326			
5. 38	35. 50	8. 11	·1077	11. 20	·00414			
5. 53	34. 45	8. 40	·1079	15. 32	·01257			
7. 12	34. 35	9. 0	·1076	20. 25	·01149			
7. 53	30. 30	11. 34	·1078	22. 30	·01166			
9. 15	34. 30	11. 42	·1084	23. 59	·01080			
10. 24	34. 50	13. 40	·1089					
11. 6	33. 0		***					
11. 19	33. 15	13. 47	·1086					
11. 34	32. 55		***					
11. 54	33. 30	16. 36	·1094					
12. 42	33. 20	17. 30	·1092					
13. 15	31. 45	18. 15	·1098					
14. 12	32. 50	20. 31	·1086					
15. 53	31. 45	20. 56	·1087					
16. 59	31. 55	22. 0	·1081					
17. 24	32. 30	22. 48	·1082					
18. 49	31. 50	23. 11	·1086					
19. 9	31. 0	23. 59	·1083					
19. 27	32. 0							
19. 57	32. 30							
20. 9	32. 20							
20. 44	33. 10							
23. 0	35. 10							
23. 13	36. 20							
23. 59	37. 30							
July 30		July 30		July 30		July 30		
0. 0	21. 37. 30	0. 0	·1083	0. 0	·01075	1. 40	70 ·5	70 ·3
0. 52	37. 0		***	0. 40	·00976	3. 40	73 ·2	73 ·4
1. 10	37. 50	1. 19	·1084	1. 50	·00794	9. 40	75 ·0	75 ·0
2. 39	36. 50		***	2. 52	·00460	21. 40	71 ·0	71 ·0
2. 51	38. 30	2. 14	·1080	3. 33	·00219			
	***		***		·00249			
3. 12	38. 30	3. 7	·1085	6. 10	·00344			
4. 15	33. 0		***	7. 0	·00347			
5. 9	30. 40	3. 36	·1077	10. 15	·00276			
5. 12	31. 10		***	11. 30	·00323			
6. 7	29. 50	3. 48	·1079	16. 55	·01036			
6. 29	31. 0		***					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 30		July 30		July 30				
h m	° ′ ″	h m		h m		h m	°	°
7. 29	21. 29. 50	4. 8	·1077	19. 44	·01337			
8. 27	33. 20		***		·01243			
9. 13	33. 40	5. 22	·1074	22. 9	·01305			
9. 26	34. 30		***	23. 59	·01153			
10. 15	32. 25	6. 14	·1069					
11. 17	34. 40		***					
	***	7. 0	·1075					
12. 10	34. 20		***					
12. 34	35. 30	7. 55	·1074					
13. 42	33. 40		***					
14. 4	34. 5	9. 42	·1086					
14. 13	33. 40	10. 30	·1078					
14. 27	34. 30	10. 40	·1082					
14. 45	33. 35	10. 49	·1079					
15. 0	34. 0	18. 22	·1086					
15. 31	32. 5	18. 40	·1082					
	***	22. 13	·1066					
18. 10	32. 30	23. 45	·1069					
18. 41	31. 5							
18. 52	31. 40							
19. 2	31. 0							
19. 10	31. 45							
19. 55	30. 0							
21. 12	29. 30							
23. 15	37. 5							
23. 31	36. 45							
23. 59	37. 30							
July 31		July 31		July 31		July 31		
0. 0	21. 37. 30	0. 45	·1064	0. 0	·01148	1. 40	73 ·0	74 ·0
1. 0	38. 0	0. 58	·1069	0. 40	·01040	3. 40	75 ·6	76 ·7
1. 26	38. 20	1. 9	·1066	2. 18	·00682	9. 40	78 ·1	78 ·4
1. 40	40. 50	1. 24	·1069	3. 15	·00421	21. 40	69 ·0	70 ·0
1. 59	38. 10	1. 44	·1059	5. 39	·00482			
3. 4	36. 35	2. 0	·1063	8. 30	·00404			
3. 15	37. 10	2. 31	·1054	9. 45	·00420			
3. 39	35. 0	2. 57:	·1057	11. 24	·00563			
4. 56	32. 30	6. 39	·1058	14. 52	·01354			
5. 5	33. 0	6. 58	·1054		·01284			
5. 11	32. 0	7. 15	·1062	19. 10	·01280			
5. 16	32. 50	7. 26	·1059	23. 59	·01270			
5. 45	29. 50	7. 48	·1062					
6. 22	31. 20	8. 12	·1057					
7. 0	29. 35	8. 36	·1065					
8. 13	33. 20	8. 54	·1059					
8. 30	32. 30	10. 30	·1066					
8. 45	33. 45	10. 49	·1062					
9. 8	32. 0	12. 58	·1066					
9. 11	32. 50	17. 17	·1081					
9. 30	32. 0	21. 49	·1078					
10. 6	33. 55	23. 51	·1072					
10. 30	34. 30							
11. 21	34. 0							
16. 42	33. 50							
19. 1	31. 55							
19. 32	31. 45							
20. 27	32. 20							
21. 40	34. 30							
22. 14	34. 20							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 31								
h m	° ′ ″	h m		h m		h m	°	°
22. 28	21. 33. 30							
23. 7	34. 0							
23. 19	35. 10							
23. 51	34. 50							
23. 59	35. 55							
Aug. 1		Aug. 1		Aug. 1		Aug. 1		
0. 0	21. 35. 55	0. 0	·1073	0. 0	·01260	1. 40	71 ·0	71 ·2
1. 21	37. 40	1. 9	·1074	1. 15	·01234	3. 40	72 ·6	74 ·0
1. 38	37. 0	1. 35	·1075	3. 30	·01069	9. 40	74 ·0	75 ·0
1. 52:	38. 40	1. 47	·1071	7. 55	·00406	22. 25	71 ·5	72 ·0
2. 36	37. 5		***	9. 18	·00300			
3. 4	37. 10	3. 3	·1076	10. 53	·00321			
3. 13	38. 10		***	14. 55	·00697			
3. 30	37. 30	3. 12	·1075	18. 20	·01004			
3. 53	38. 40		***	20. 30	·01154			
5. 31	33. 30	3. 39	·1079	22. 0	·01150			
6. 12	33. 0		***	23. 0	·01084			
	***	5. 30	·1071	23. 59	·01035			
6. 28	34. 20		***					
	***	8. 34	·1082					
6. 49	34. 0		***					
8. 0	37. 0	9. 54	·1080					
8. 15	36. 30	12. 30	·1089					
8. 30	37. 20		***					
8. 48	36. 30	13. 46	·1090					
9. 14	37. 20		***					
9. 28	36. 30	14. 2	·1093					
	***		***					
11. 45	36. 10	14. 25	·1090					
	***		***					
12. 49	33. 20	18. 54	·1086					
13. 51	34. 0	23. 59	·1066					
14. 49	32. 10							
15. 7	32. 20							
15. 15	32. 50							
15. 26	32. 20							
16. 9	33. 10							
	***							
17. 19	31. 10							
17. 37	31. 40							
17. 51	31. 35							
18. 42	32. 35							
19. 48	32. 15							
20. 44	32. 30							
21. 12	31. 45							
21. 58	31. 40							
22. 11	32. 40							
22. 20	31. 50							
	***							
22. 56	32. 40							
23. 12	31. 0							
23. 28	32. 0							
23. 36	31. 30							
23. 59	32. 50							
Aug. 2		Aug. 2		Aug. 2		Aug. 2		
0. 0	21. 32. 50	0. 0	·1066	0. 0	·01010	9. 30	76 ·2	77 ·0
0. 45	33. 10	3. 43	·1069	2. 39	·00618	12. 40	73 ·4	74 ·1

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. 2	° ′ ″	Aug. 2		Aug. 2		Aug. 2		
h m		h m		h m		h m	°	°
1. 47	21. 36. 40	3. 58	·1066	4. 31	·00281	13. 40	72 ·2	73 ·1
2. 24	35. 0	5. 45	·1068		·00345	14. 40	72 ·0	72 ·3
2. 39	36. 30	7. 12	·1073	8. 20	·00349	15. 40	71 ·4	72 ·0
	***	8. 2	·1072	9. 56	·00316	16. 40	70 ·3	71 ·8
5. 22	31. 0	8. 8	·1076	12. 39	·00676	17. 40	69 ·7	71 ·3
5. 37	32. 25	8. 26	·1074	15. 36	·01337	18. 40	69 ·4	70 ·9
6. 0	31. 40	8. 37	·1076		·01255	19. 40	69 ·1	69 ·5
7. 13	32. 25	8. 52	·1073	20. 0	·01234	20. 40	69 ·7	69 ·7
7. 25	31. 50	10. 13	·1077	22. 9	·01225	21. 40	71 ·5	72 ·0
8. 36	32. 25	10. 45	·1077	23. 59	·01015	22. 40	71 ·8	72 ·2
9. 52	36. 50	11. 22	·1080			23. 40	73 ·0	72 ·5
10. 29	36. 0	11. 49	·1078					
10. 58	37. 20	12. 45	·1080					
12. 43	34. 0	14. 2	·1075					
13. 59	35. 0	14. 50	·1079					
14. 43	32. 50	15. 23	·1076					
16. 6	33. 0	16. 36	·1081					
16. 28	32. 20	18. 17	·1080					
	***	18. 52	·1074					
18. 30	31. 10	19. 5	·1082					
18. 54	31. 55	19. 41	·1081					
19. 6	31. 10	20. 3	·1078					
19. 25	32. 0	20. 20	·1080					
20. 11	28. 30	21. 36	·1075					
21. 47	31. 50	22. 3	·1075					
22. 2	33. 20	23. 0	·1068					
22. 11	32. 50							
22. 36	35. 0							
22. 45	35. 0							
23. 37	39. 0							
23. 52	38. 30							
23. 59	38. 55							
Aug. 3		Aug. 3		Aug. 3		Aug. 3		
0. 0	21. 38. 55	0. 0	·1056	0. 0	·01010	0. 40	74 ·5	74 ·2
1. 47	37. 50	1. 8	·1056	0. 54	·00854	1. 40	76 ·0	75 ·0
1. 59	36. 50	1. 36	·1061	2. 33	·00383	2. 40	77 ·0	77 ·0
2. 9	37. 20	2. 37	·1051		·00541	3. 40	79 ·0	78 ·0
2. 40	32. 35	3. 6	·1054	3. 0	·00481	4. 40	79 ·6	80 ·0
	***	3. 28	·1063	7. 36	·00530	5. 40	81 ·0	81 ·0
4. 16	33. 0	3. 38	·1061	11. 0	·00434	6. 40	81 ·5	81 ·2
	***	4. 0	·1059	12. 6	·00474	7. 40	82 ·0	82 ·0
5. 1	28. 50	4. 15	·1046	14. 11	·00706	8. 40	82 ·0	82 ·0
	***	5. 0	·1040	16. 0	·00997	9. 40	81 ·3	81 ·6
6. 4	30. 5	5. 32	·1032	17. 58	·01385	10. 40	81 ·0	80 ·6
6. 22	31. 50	6. 4	·1037		·01341	11. 40	80 ·0	80 ·3
	***	6. 32	·1048	21. 38	·01342	21. 40	74 ·0	73 ·0
7. 47	32. 30	6. 43	·1053		·01145			
8. 3	31. 40	7. 22	·1048	22. 55	·01172			
8. 52	30. 35	7. 50	·1052	23. 59	·01090			
9. 11	32. 40	8. 17	·1051					
9. 28	32. 25	10. 2	·1064					
10. 9	33. 30	10. 36	·1056					
	***	10. 53	·1060					
10. 42	31. 20	12. 10	·1056					
	***	14. 24	·1062					
11. 7	31. 0	14. 54	·1072					
11. 45	33. 30	15. 32	·1068					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 3	° ′ ″	Aug. 3		h m		h m	°	°
h m		h m						
11. 59	21. 33. 0	18. 37	·1073					
13. 52	33. 35	18. 54	·1068					
14. 22	34. 50	21. 48	·1051					
15. 8	33. 10	23. 9	·1052					
15. 50	34. 0	23. 59	·1054					
17. 7	33. 10							
17. 19	33. 45							
17. 37	32. 35							
	***							
21. 28	31. 30							
	***							
22. 6	33. 30							
22. 21	33. 20							
	***							
23. 22	37. 20							
23. 42	36. 50							
23. 59	37. 30							
Aug. 4		Aug. 4		Aug. 4		Aug. 4		
0. 0	21. 37. 35	0. 0	·1054	0. 0	·01078	1. 40	78 ·0	77 ·4
3. 37	35. 0		***	1. 0	·00882	3. 40	78 ·9	80 ·0
4. 10	32. 45	1. 52	·1060	2. 30	·00500	9. 40	80 ·7	81 ·3
4. 45	37. 0		***	3. 37	·00563	21. 40	69 ·6	71 ·2
6. 0	34. 40	2. 2	·1054	7. 45	·00515			
	***		***	8. 24	·00476			
7. 30	35. 50	2. 30	·1056	9. 38	·00480			
	***		***	10. 45	·00558			
9. 56	34. 0	2. 48	·1054	11. 39	·00654			
10. 26	34. 30		***	15. 23	·01403			
11. 54	34. 10	3. 38	·1062		·01341			
12. 44	35. 30		***	20. 30	·01295			
13. 6	35. 0	4. 14	·1051	23. 59	·01252			
	***		***					
14. 31	36. 30	4. 24	·1054					
	***		***					
15. 6	35. 30	5. 45	·1051					
	***		***					
15. 53	36. 45	6. 0	·1057					
16. 24	35. 30		***					
	***	6. 39	·1056					
19. 41	35. 50		***					
	***	9. 32	·1069					
21. 57	38. 50		***					
22. 11	40. 20	9. 40	·1064					
22. 45	41. 15		***					
23. 59	43. 55	9. 48	·1066					
			***					
		11. 9	·1067					
			***					
		11. 33	·1073					
			***					
		11. 55	·1069					
			***					
		16. 36	·1085					
			***					
		20. 9	·1089					
			***					
		21. 46	·1085					
			***					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 4 h m		h m		h m	°	°
		23. 38	·1090 ***					
		23. 59	·1091					
Aug. 5		Aug. 5		Aug. 5		Aug. 5		
0. 0	21. 43. 55	0. 0	·1091	0. 0	·01248	1. 40	69 ·4	71 ·0
0. 23	41. 50	0. 38	·1097	1. 10	·01243	3. 40	70 ·2	71 ·3
2. 56	42. 0	3. 10	·1104	2. 51	·01289	9. 40	73 ·0	74 ·0
4. 11	34. 50	4. 43	·1084	4. 0	·01254	21. 40	67 ·0	68 ·0
5. 10	32. 0	8. 18	·1086	5. 45	·01136			
5. 30	32. 30	8. 45	·1082	8. 30	·00820			
5. 43	31. 25	9. 41	·1087 ***	10. 0	·00743			
5. 56	31. 45			11. 6	·00805			
6. 11	31. 10	11. 30	·1082 ***	15. 7	·01293			
6. 33	31. 30				·01175			
6. 58	30. 30	11. 58	·1079 ***	21. 21	·01200			
7. 26	30. 30				·00967			
7. 41	31. 30	17. 2	·1093 ***	23. 59	·00894			
7. 55	31. 30							
8. 36	32. 35	19. 0	·1092 ***					
9. 6	32. 40							
9. 15	31. 0	19. 18	·1089 ***					
9. 41	32. 5							
10. 0	33. 30	20. 6	·1091 ***					
11. 11	32. 40							
12. 14	31. 45	20. 30	·1088 ***					
12. 30	33. 40 ***	21. 31	·1091 ***					
16. 16	35. 0							
17. 7	32. 50 ***	23. 59	·1079					
20. 22	33. 30							
20. 56	35. 30							
22. 13	35. 40 ***							
22. 29	37. 20 ***							
22. 53	37. 10 ***							
23. 14	37. 40							
23. 26	37. 0							
23. 59	38. 40							
Aug. 6		Aug. 6		Aug. 6		Aug. 6		
0. 0	21. 38. 40	0. 0	·1079	0. 0	·00894	1. 40	69 ·2	70 ·0
1. 57	42. 20	0. 52	·1078	1. 34	·00754	3. 40	71 ·2	71 ·2
2. 15	40. 10 ***	1. 6	·1080	2. 45	·00602	9. 40	72 ·0	73 ·0
		1. 34	·1076	4. 39	·00185	21. 40	63 ·4	65 ·2
3. 35	38. 0	2. 0	·1080	7. 15	·00170			
3. 45	39. 10	4. 12	·1069	9. 32	·00121			
4. 3	36. 0	4. 21	·1074	10. 5	·00149			
4. 21	36. 25	4. 31	·1070	11. 34	·00360			
4. 44	34. 0	4. 52	·1075	15. 39	·01189			
4. 58	35. 30	5. 13	·1072		·01112			
5. 11	33. 30	6. 4	·1070	18. 45	·01126			
5. 40	34. 30	10. 0	·1080	21. 36	·01082			
5. 58	32. 0 ***	16. 36	·1094	22. 24	·00951			
		18. 51	·1093	22. 53	·00900			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 6 h m	° ′ ″	Aug. 6 h m		Aug. 6 h m		h m	°	°
6. 43	21. 30. 30 ***	21. 10	·1087 ***	23. 59	·00862			
7. 37	34. 30 ***	22. 12	·1077					
		23. 36	·1079					
8. 52	32. 30	23. 59	·1085					
9. 21	34. 20							
9. 41	33. 40							
10. 58	35. 30							
11. 24	34. 20 ***							
11. 44	35. 30 ***							
15. 11	33. 40							
15. 58	34. 0 ***							
17. 29	32. 40							
18. 2	32. 40							
18. 16	32. 0							
18. 52	32. 45							
19. 7	31. 50							
19. 18	32. 20							
19. 30	31. 30 ***							
20. 35	33. 10							
20. 45	32. 30							
21. 13	34. 0							
21. 23	33. 50							
21. 37	34. 35							
21. 44	34. 0							
21. 54	35. 10							
22. 12	34. 10							
23. 0	35. 45							
23. 35	36. 55							
23. 59	41. 0							
Aug. 7		Aug. 7		Aug. 7		Aug. 7		
0. 0	21. 41. 0	0. 0	·1085	0. 0	·00853	1. 40	66 ·0	66 ·3
0. 30	43. 0	0. 10	·1088	0. 49	·00779	3. 40	67 ·0	67 ·4
0. 52	42. 20	0. 23	·1084	2. 39	·00696	9. 40	68 ·0	68 ·6
1. 13	43. 30	0. 30	·1090	3. 30	·00621	21. 40	63 ·0	64 ·0
2. 30	41. 45	0. 38	·1091	7. 11	·00090			
2. 46	40. 30	0. 45	·1081	8. 0	·00000			
2. 55	41. 10	0. 54	·1077	10. 32	·00014			
3. 15	39. 30	1. 9	·1080	13. 9	·00294			
3. 28	41. 30	1. 50	·1074	15. 53	·00622			
3. 51	38. 40	2. 37	·1084	18. 30	·00876			
3. 59	40. 0	3. 9	·1076	18. 38	·00920			
4. 12	38. 20	3. 35	·1086	22. 0	·00938			
4. 36	37. 20 ***	3. 40	·1080	23. 53	·00854			
		3. 54	·1082					
5. 39	37. 30	4. 0	·1092					
6. 21	38. 30	4. 11	·1077 ***					
7. 45	33. 10							
9. 2	35. 30	5. 28	·1078					
9. 13	34. 20	5. 54	·1083					
10. 0	34. 20	6. 40	·1085					
10. 12	35. 0	8. 29	·1104					
10. 36	34. 35	9. 43	·1098					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 7		Aug. 7						
h m	° ′ ″	h m		h m		h m	°	°
10. 44	21. 33. 30	9. 54	·1102					
10. 55	34. 20	10. 0	·1110					
11. 9	34. 10	10. 10	·1102					
11. 24	34. 45	10. 17	·1105					
11. 36	33. 0	10. 24	·1096					
11. 45	34. 0	10. 37	·1104					
12. 24	32. 45	11. 27	·1104					
12. 44	35. 25	11. 36	·1112					
13. 9	33. 35	11. 40	·1100					
13. 26	34. 45	12. 30	·1096					
13. 51	34. 40	12. 43	·1103					
14. 24	35. 30	12. 55	·1105					
	***	13. 36	·1098					
16. 28	31. 30	14. 0	·1102					
16. 59	32. 0	14. 27	·1097					
17. 29	31. 45	15. 24	·1098					
18. 44	31. 50	17. 9	·1092					
19. 19	30. 30	17. 23	·1098					
19. 30	32. 0	18. 11.	·1096					
	***	20. 10	·1102					
20. 44	32. 50	21. 25	·1095					
21. 0	34. 30	23. 0	·1079					
21. 32	35. 30	23. 7	·1070					
23. 37	41. 55							
Aug. 8		Aug. 8		Aug. 8		Aug. 8		
0. 10	21. 41. 50	1. 0	·1073	0. 10	·00842	1. 40	63 ·3	64 ·0
0. 45	44. 45	1. 22	·1082	3. 37	·00754	3. 40	64 ·0	65 ·0
0. 47	46. 30	2. 40	·1097	7. 23	·00503	9. 40	64 ·7	65 ·0
1. 4	44. 30	4. 17	·1094	11. 21	·00517	22. 50	62 ·4	63 ·0
	***	4. 32	·1103	14. 30	·00635			
2. 11	44. 30	4. 40	·1101	18. 39	·00716			
4. 7	40. 10	5. 25	·1105	20. 30	·00713			
4. 13	40. 0	5. 31	·1109	22. 51	·00582			
4. 30	41. 30		***	23. 59	·00568			
4. 37	40. 35	5. 48	·1102					
4. 52	40. 50		***					
5. 23	38. 20	6. 33	·1106					
5. 39	38. 45		***					
	***	6. 45	·1100					
6. 40	38. 50		***					
6. 52	38. 0	7. 0	·1099					
7. 9	38. 40		***					
8. 15	32. 30	7. 39	·1106					
8. 29	33. 30		***					
8. 47	33. 30	7. 44	·1098					
	***		***					
9. 40	37. 10	8. 2	·1097					
10. 13	34. 30		***					
	***	8. 23	·1105					
10. 30	35. 30		***					
10. 45	34. 30	9. 5	·1091					
13. 0	37. 55		***					
13. 15	37. 0	9. 36	·1101					
14. 12	36. 40		***					
14. 44	38. 20	9. 47	·1097					
15. 11	37. 5		***					
15. 58	38. 0	10. 0	·1100					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 8		Aug. 8						
h m	° ′ ″	h m		h m		h m	°	°
17. 8	21. 35. 20	10. 32	·1094					
17. 29	35. 0		***					
18. 42	32. 50	10. 43	·1098					
19. 4	33. 40		***					
19. 28	33. 0	13. 30	·1099					
	***		***					
20. 42	33. 40	14. 15	·1100					
	***		***					
21. 35	37. 0	14. 25	·1103					
22. 26	37. 35		***					
	***	19. 22	·1104					
23. 59	39. 30		***					
		21. 54	·1090					
			***					
		22. 57	·1079					
			***					
		23. 59	·1075					
			***					
Aug. 9		Aug. 9		Aug. 9		Aug. 9		
0. 0	21. 39. 30	0. 0	·1075	0. 0	·00540	7. 36	67 ·2	68 ·5
	***	0. 39	·1074	3. 25	·00202	12. 40	65 ·0	67 ·2
0. 30	39. 55	1. 12	·1084	7. 0	·00115	13. 40	64 ·4	66 ·4
	***	2. 7	·1083	11. 49	·00088	14. 40	64 ·0	65 ·8
1. 11	43. 30	2. 27	·1091	13. 10	·00177	15. 40	63 ·7	65 ·8
2. 0	39. 30	2. 58	·1086	18. 55	·00963	16. 40	63 ·2	65 ·2
	***	3. 30	·1089	20. 21	·01114	17. 40	62 ·8	64 ·8
2. 15	40. 10	4. 0	·1084		·01054	18. 40	62 ·4	64 ·2
2. 28	39. 0	4. 24	·1090	21. 0	·01050	19. 40	62 ·3	64 ·9
	***	4. 45	·1082		·00856	20. 40	62 ·0	63 ·5
3. 27	38. 0	5. 20	·1086	23. 59	·00856	21. 40	63 ·0	63 ·5
4. 31	33. 0	6. 8	·1081			22. 40	63 ·5	64 ·0
	***	6. 44	·1087			23. 40	64 ·7	67 ·0
5. 44	30. 50	7. 33	·1084					
6. 15	30. 40	8. 54	·1086					
6. 44	32. 45	10. 7	·1092					
8. 3	33. 50	10. 30	·1091					
8. 38	32. 50		(†)					
9. 12	33. 0	21. 40	·1087*					
9. 45	34. 30							
10. 9	33. 30							
10. 42	36. 50							
	(†)							
21. 40	34. 54*							
Aug. 10		Aug. 10		Aug. 10		Aug. 10		
	(†)		(†)	0. 0	·00842	0. 40	66 ·0	67 ·0
1. 28	21. 37. 50	1. 20	·1064	1. 12	·00534	1. 40	67 ·2	68 ·0
1. 41	37. 20		***	2. 34	·00180	2. 40	68 ·0	68 ·5
2. 15	39. 20	2. 0	·1068	4. 52	·00316	3. 40	69 ·0	69 ·7
2. 30	37. 25	2. 52	·1064	7. 30	·00368	4. 40	70 ·5	71 ·6
3. 30	36. 30	11. 7	·1080	12. 37	·00364	5. 40	71 ·1	72 ·0
3. 59	34. 0	11. 20	·1077	15. 50	·00569	6. 40	72 ·0	72 ·0
4. 12	34. 0	11. 49	·1079	18. 38	·00816	7. 40	72 ·0	72 ·2
4. 16	35. 0	11. 57	·1082	20. 30	·00919	8. 40	71 ·8	72 ·0
4. 45	32. 0	13. 6	·1081	21. 21	·00926	9. 40	71 ·5	73 ·0
4. 59	33. 40	17. 30	·1091	22. 15	·00882	10. 40	71 ·5	73 ·0
5. 14	32. 30	20. 9	·1091	23. 59	·00669	11. 40	71. 4	72 ·7
5. 43	34. 20	20. 54	·1086			21. 44	69 ·4	70 ·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.
Aug. 10		Aug. 10						
h m	° ′ ″	h m		h m		h m	°	°
6. 16	21. 32. 20	22. 39	·1059					
6. 44	32. 45	22. 45	·1056					
6. 58	32. 0	22. 52	·1066					
	***	23. 33	·1074					
8. 45	32. 0	23. 43	·1070					
9. 52	34. 50	23. 59	·1075					
	***							
13. 25	34. 45							
	***							
15. 19	36. 40							
15. 36	35. 30							
16. 28	36. 20							
17. 1	34. 55							
17. 31	35. 0							
	***							
19. 0	32. 45							
	***							
20. 16	32. 40							
20. 33	30. 50							
21. 27	33. 40							
22. 12	33. 45							
	***							
22. 59	37. 30							
23. 10	39. 5							
	***							
23. 59	41. 45							
Aug. 11		Aug. 11		Aug. 11		Aug. 11		
0. 0	21. 41. 45	0. 0	·1075	0. 0	·00658	1. 40	71 ·9	71 ·4
0. 10	42. 0	2. 26	·1074	1. 15	·00544	3. 40	73 ·0	73 ·2
0. 15	41. 10	3. 14	·1065	2. 30	·00358	9. 40	74 ·0	74 ·3
	***	3. 22	·1073	3. 4	·00413	21. 40	67 ·4	68 ·0
0. 41	42. 40		***	3. 45	·00515			
0. 58	41. 0	3. 45	·1071	5. 10	·00496			
1. 24	42. 30		***	10. 39	·00474			
2. 12	43. 30	4. 40	·1075	11. 34	·00540			
5. 21	33. 40		***	17. 3	·01335			
5. 54	35. 50	5. 15	·1070	20. 30	·01280			
6. 32	35. 0	6. 19	·1076	23. 0	·01277			
	***	6. 28	·1073	23. 59	·01216			
7. 59	37. 50	6. 41	·1075					
8. 30	28. 30	7. 0	·1091					
8. 45	31. 30		***					
	***	7. 22	·1083					
9. 7	31. 40		***					
	***	7. 32	·1086					
9. 45	34. 0		***					
10. 0	33. 30	7. 51	·1083					
10. 22	35. 30		***					
11. 0	35. 10	8. 7	·1090					
11. 12	35. 40	8. 17	·1087					
13. 49	35. 30	8. 24	·1080					
14. 7	38. 20	8. 53	·1089					
14. 30	34. 0	9. 5	·1084					
15. 30	34. 50	9. 16	·1088					
16. 15	36. 40	9. 39	·1084					
	***	10. 10	·1084					
18. 27	33. 45	10. 35	·1089					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 11		Aug. 11						
h m	° ′ ″	h m		h m		h m	°	°
21. 11	21. 36. 30	11. 0	·1089					
22. 17	40. 10	11. 14	·1100					
22. 32	38. 0	11. 27	·1091					
22. 44	39. 30	11. 39	·1094					
23. 0	37. 25	12. 2	·1092					
23. 17	38. 30	12. 12	·1094					
	***	13. 30	·1093					
23. 44	37. 35	13. 44	·1087					
23. 56	38. 20	14. 8	·1087					
23. 59	38. 30	14. 24	·1102					
		14. 38	·1102					
		14. 57	·1092					
		15. 25	·1095					
		16. 0	·1092					
		21. 9	·1093					
		21. 41	·1088					
		22. 37	·1085					
		23. 59	·1066					
Aug. 12		Aug. 12		Aug. 12		Aug. 12		
0. 7	21. 40. 0	0. 0	·1066	0. 0	·01210	1. 40	70 ·2	71 ·2
0. 45	38. 30	1. 7	·1062	0. 53	·01106	3. 40	72 ·0	73 ·6
1. 26	38. 20	1. 32	·1069	2. 0	·00884	9. 40	77 ·0	77 ·8
2. 46	33. 10	2. 40	·1060	3. 33	·00428	21. 50	69 ·0	70 ·0
3. 12	33. 20	3. 16	·1074		·00496			
3. 36	31. 40	3. 32	·1067	6. 45	·00603			
3. 42	33. 40		***	10. 40	·00563			
3. 52	31. 45	4. 35	·1074	14. 11	·00816			
4. 6	31. 10	5. 30	·1065	16. 0	·01040			
	***	6. 6	·1067	17. 32	·01334			
4. 40	33. 30	6. 41	·1077		·01288			
	***	7. 0	·1066	23. 0	·01321			
5. 12	31. 10	7. 22	·1063	23. 59	·01243			
5. 37	31. 0	7. 35	·1070					
	***	7. 47	·1064					
6. 0	32. 30	8. 1	·1067					
7. 36	30. 30	8. 8	·1074					
8. 42	31. 30	8. 23	·1073					
	***	8. 32	·1065					
10. 11	35. 30	9. 0	·1077					
10. 29	34. 0	9. 36	·1071					
10. 44	35. 20	9. 43	·1080					
11. 12	32. 50	9. 55	·1081					
	***	10. 0	·1073					
11. 45	34. 30	10. 14	·1066					
12. 30	39. 0	10. 55	·1076					
13. 15	34. 0	11. 56	·1072					
13. 42	32. 30	12. 23	·1088					
14. 42	34. 10	12. 34	·1089					
15. 36	37. 20	12. 54	·1074					
16. 29	33. 0	13. 28	·1079					
17. 7	34. 0	13. 39	·1071					
	***	14. 0	·1073					
17. 52	31. 20	14. 9	·1071					
18. 0	32. 10	14. 18	·1076					
18. 13	31. 20	14. 35	·1076					
	***	14. 46	·1071					
18. 34	33. 30	15. 25	·1075					

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. 12	° ′ ″	Aug. 12		h m		h m	°	°
h m		h m						
18. 48	21. 32. 0	15. 45	·1070					
19. 10	33. 50	16. 32	·1092					
19. 41	33. 35	16. 58	·1090					
20. 10	36. 50	17. 22	·1080					
20. 21	36. 0	17. 27	·1083					
22. 13	39. 30	17. 37	·1078					
	***	18. 24	·1082					
23. 18	36. 0	18. 38	·1077					
23. 59	37. 45	19. 8	·1080					
		19. 43	·1077					
		21. 52	·1079					
		22. 45	·1058					
		23. 10	·1058					
		23. 59	·1063					
Aug. 13		Aug. 13		Aug. 13		Aug. 13		
0. 0	21. 37. 50	0. 0	·1063	0. 0	·01238	1. 40	73 ·0	73 ·0
0. 16	38. 30	0. 9	·1061	0. 45	·01180	3. 40	75 ·5	75 ·5
0. 47	38. 10	0. 30	·1047	1. 4	·01139	9. 40	77 ·5	78 ·0
1. 15	35. 30	1. 9	·1073	1. 45	·01055	21. 40	70 ·4	71 ·3
1. 45	36. 30	1. 26	·1064	3. 48	·00554			
2. 8	41. 30	1. 37	·1068		·00622			
2. 21	39. 40	2. 11	·1051	10. 30	·00614			
	***	2. 30	·1062	12. 15	·00659			
2. 43	39. 40	2. 52	·1068	15. 43	·01059			
3. 35	30. 0	3. 35	·1063	18. 23	·01416			
3. 46	32. 30	3. 45	·1055	18. 51	·01380			
3. 55	32. 0	4. 0	·1055	21. 45	·01356			
4. 0	33. 10	4. 16	·1050		·01104			
4. 11	33. 0	4. 32	·1059	23. 3	·01178			
4. 40	35. 30	4. 52	·1061		·01144			
5. 3	33. 30	5. 36	·1050	23. 59	·01184			
	***	5. 56	·1049					
5. 35	34. 0	6. 12	·1059					
5. 43	32. 30	6. 51	·1052					
5. 51	34. 0	7. 4	·1062					
6. 21	33. 0	7. 27	·1066					
6. 30	32. 30	7. 38	·1074					
7. 11	32. 25	8. 0	·1071					
7. 27	31. 50	8. 22	·1074					
8. 0	32. 30	8. 45	·1063					
8. 15	36. 55	9. 24	·1073					
8. 44	31. 35	9. 52	·1072					
8. 57	33. 20	10. 8	·1081					
9. 7	33. 0		(†)					
9. 43	35. 20	14. 13	·1076					
9. 46	37. 55	15. 15	·1077					
10. 0	35. 30	15. 36	·1079					
10. 22	36. 50	19. 25	·1074					
10. 49	34 50	21. 7	·1081					
11. 13	38. 0	21. 57	·1079					
11. 28	37. 30	22. 28	·1079					
	(†)	22. 52	·1075					
15. 17	35. 50	23. 59	·1078					
15. 39	36. 30							
16. 4	35. 0							
	***							
17. 15	36. 10							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F Magnet.
Aug. 13	° ′ ″	h m		h m		h m	°	°
h m								
17. 42	21. 35. 10							
18. 41	35. 15							
19. 13	36. 35							
20. 45	37. 20							
21. 37	39. 0							
21. 51	38. 10							
22. 39	42. 40							
22. 50	42. 30							
23. 8	44. 0							
23. 48	45. 30							
23. 59	45. 30							
Aug. 14		Aug. 14		Aug. 14		Aug. 14		
0. 0	21. 45. 30	0. 0	·1078	0. 0	·01192	1. 40	70 ·2	71 ·2
0. 39	45. 30	2. 29	·1088	0. 48	·01230	3. 40	70 ·0	71 ·8
1. 37	42. 0		***	1. 7	·01255	9. 40	69 ·2	70 ·0
1. 52	43. 30	3. 22	·1084	1. 51	·01243	21. 46	61 ·9	62 ·4
2. 18	43. 30	4. 15	·1071		·00901			
3. 59	37. 30		***	4. 20	·00839			
4. 48	32. 30	4. 40	·1079	7. 5	·00615			
	***		***	7. 54	·00579			
6. 35	32. 15	5. 7	·1074	8. 54	·00676			
6. 58	34. 0		***	10. 6	·00860			
	***	5. 41	·1078	11. 39	·01157			
7. 29	32. 50	6. 15	·1077	17. 19	·01217			
8. 15	34. 35	6. 31	·1080	22. 13	·01163			
9. 31	32. 50	6. 41	·1079	23. 4	·01146			
	***	8. 50	·1085	23. 59	·01055			
11. 28	37. 30	11. 0	·1089					
11. 43	36. 30	11. 42	·1090					
12. 7	36. 10	12. 2	·1087					
12. 27	37. 20	12. 36	·1091					
13. 15	36. 50	14. 25	·1092					
	***	15. 7	·1096					
14. 0	37. 35	19. 0	·1103					
	***	21. 9	·1100					
14. 41	36. 30	22. 27	·1086					
14. 53	37. 0	22. 50	·1089					
	***	23. 59	·1082					
15. 27	35. 30							
	***							
17. 14	37. 30							
	***							
18. 22	35. 0							
	***							
19. 26	34. 30							
	***							
20. 39	37. 0							
	***							
21. 0	36. 40							
	***							
21. 22	37. 30							
	***							
21. 42	35. 50							
	***							
22. 15	35. 30							
	***							
22. 34	37. 10							
	***							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug.14								
h m	° ′ ″	h m		h m		h m	°	°
22. 39	21. 36. 20							
	***							
22. 45	37. 20							
	***							
22. 54	36. 0							
	***							
23. 41	37. 50							
23. 47	39. 45							
23. 59	40. 10							
Aug.15		Aug.15		Aug.15		Aug.15		
0. 0	21. 40. 10	0. 0	·1082	0. 0	·01045	1. 40	64 ·8	65 ·5
1. 13	38. 40	1. 34	·1076	0. 43	·00950	3. 40	67 ·0	68 ·0
1. 33	37. 40	1. 47	·1080	1. 30	·00897	9. 40	66 ·5	67 ·4
1. 43	39. 45	2. 15	·1076	2. 53	·00603	22. 30	68 ·0	68 ·5
	***	2. 57	·1087	4. 21	{ ·00240			
2. 38	38. 35	3. 14	·1082		{ ·00275			
2. 49	39. 0	4. 10	·1086	6. 45	·00276			
3. 24	37. 10	4. 29	·1083	9. 40	·00220			
3. 45	37. 20	4. 46	·1086	10. 53	·00274			
4. 0	36. 5	5. 4	·1082	15. 56	·00763			
4. 14	37. 0	6. 9	·1084	17. 8	·00840			
	***	6. 32	·1089	19. 0	·00872			
4. 30	36. 50	11. 47	·1095	20. 37	·00816			
4. 42	35. 30	12. 4	·1098	21. 41	·00696			
	***	14. 15	·1096	22. 51	·00455			
5. 27	38. 20	16. 30	·1109	23. 15	·00440			
	***	18. 38	·1107	23. 42	·00278			
6. 7	35. 0	19. 45	·1102	23. 59	·00378			
	***	20. 22	·1104					
6. 42	34. 30	21. 8	·1096					
	***	22. 30	·1073					
6. 59	35. 10	22. 52	·1071					
	***		(†)					
7. 30	33. 40							
	***							
9. 0	37. 0							
10. 0	35. 5							
10. 56	37. 30							
12. 36	38. 30							
12. 49	37. 50							
13. 15	38. 30							
14. 10	37. 20							
14. 28	38. 30							
14. 43	37. 45							
15. 12	38. 30							
15. 45	38. 20							
15. 54	37. 10							
16. 15	38. 30							
17. 58	36. 45							
19. 43	35. 55							
21. 40	37. 20							
22. 40	35. 25							
22. 52	37. 0							
23. 6	37. 25							
23. 22	35. 30							
23. 59	36. 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.
Aug16		Aug.16		Aug.16		Aug.16		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 36. 0	0. 28	·1056	0. 0	·00380	8. 25	77 ·5	78 ·0
	***		***	0. 10	·00397	12. 40	72 ·0	73 ·3
3. 10	34. 10	4. 37	·1054	3. 49	·00643	13. 40	71 ·0	72 ·4
	***	5. 7	·1046	5. 30	·00657	14. 40	69 ·5	71 ·6
5. 19	28. 0	5. 35	·1048	9. 39	·00614	15. 40	69 ·5	71 ·0
6. 41	28. 30	5. 45	·1047	12. 24	·01076	16. 40	68 ·9	70 ·0
7. 45	33. 35	6. 6	·1050	14. 5	·01368	17 ·40	68 ·0	69 ·7
8. 28	32. 20	7. 15	·1050	18. 39	·01360	18. 40	67 ·0	69 ·0
9. 29	34. 30	10. 5	·1062	23. 7	·01294	19. 40	67 ·0	68 ·5
9. 58	34. 0		***		(†)	20. 40	66 ·6	68 ·2
14. 41	37. 10	10. 45	·1064			21. 40	66 ·0	67 ·7
15. 21	35. 10	13. 6	·1084			22. 40	66 ·0	67 ·4
16. 19	36. 30	13. 26	·1082			23. 40	66 ·2	67 ·6
18. 22	33. 40	15. 19	·1093					
19. 9	31. 20	15. 36	·1086					
20. 36	29. 20	15. 52	·1084					
22. 21	32. 40	16. 24	·1089					
22. 50	34. 20	17. 30	·1086					
	(†)	21. 56	·1069					
		23. 0	·1071					
			(†)					
Aug.17		Aug.17		Aug.17		Aug.17		
0. 30	21. 38. 50		(†)		(†)	0. 40	67 ·1	68 ·2
	***	1. 15	·1082	1. 12	·01023	1. 40	68 ·0	68 ·8
2. 36	37. 10	4. 9	·1079	2. 14	·00920	2. 40	69 ·0	70 ·0
2. 43	36. 20	4. 27	·1082	4. 21	·00476	3. 40	70 ·0	70 ·4
2. 50	37. 5		***	9. 7	·00397	4. 40	70 ·8	71 ·3
	***	5. 0	·1077	10. 30	·00506	5. 40	71 ·3	71 ·9
3. 36	34. 0		***	14. 33	{ ·01295	6. 40	71 ·5	72 ·0
	***	7. 44	·1079		{ ·01235	7. 40	71 ·8	72 ·4
4. 42	35. 15		***	19. 40	·01216	8. 40	69 ·8	71 ·0
	***	10. 15	·1087	23. 0	·01180	9. 40	69 ·2	71 ·0
5. 11	34. 0	10. 44	·1086	23. 59	·01131	10. 40	68 ·8	70 ·0
5. 22	35. 0	11. 26	·1094			11. 40	68 ·2	69 ·0
	***	12. 5	·1088			21. 40	62 ·0	63 ·2
6. 35	34. 0	12. 27	·1091					
	***	16. 24	·1096					
11. 0	35. 35	17. 0	·1095					
11. 13	36. 30	18. 9	·1099					
	***	18. 41	·1095					
11. 40	33. 50	20. 35	·1092					
	***	23. 7	·1079					
12. 36	35. 30	23. 59	·1082					
	***							
16. 44	36. 0							
	***							
17. 14	37. 0							
17. 45	35. 25							
	***							
18. 9	35. 45							
18. 30	34. 30							
18. 45	35. 25							
19. 10	34. 30							
	***							
21. 10	37. 40							
22. 4	34. 40							
22. 14	36. 40							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug.17								
h m	° ′ ″	h m		h m		h m	°	°
22. 30	21. 35. 5							
22. 38	37. 15							
23. 0	35. 45							
	***							
23. 59	36. 30							
Aug.18		Aug.18		Aug.18		Aug.18		
0. 0	21. 36. 25	0. 0	·1082	0. 0	·01120	1. 40	66 ·0	66 ·7
0. 27	37. 30	1. 45	·1088	0. 57	·00988	3. 40	68 ·7	69 ·5
0. 30	39. 30		***	1. 49	·00833	9. 40	71 ·8	72 ·0
0. 42	38. 0	6. 3	·1086	3. 16	·00342	21. 40	66 ·8	67 ·6
1. 35	38. 40	6. 36	·1088		·00402			
2. 28	35. 50	6. 52	·1093		·00481			
3. 16	33. 0	11. 30	·1093	9. 21	·00576			
	***	11. 49	·1095	12. 27	·00564			
3. 41	34. 50	11. 58	·1101	13. 51	·00615			
	***	12. 23	·1099	16. 0	·00782			
4. 48	31. 0	12. 33	·1088	20. 56	·01316			
	***	12. 52	·1085	23. 59	·01335			
6. 6	30. 50	13. 40	·1092					
6. 45	34. 20	16. 0	·1087					
	***	17. 0	·1093					
8. 28	35. 10	18. 34	·1091					
8. 57	33. 35	22. 9	·1075					
	***	23. 59	·1079					
10. 57	33. 50							
11. 45	35. 0							
	***							
12. 30	31. 25							
	***							
15. 31	34. 35							
	***							
15. 58	36. 45							
	***							
19. 30	32. 50							
	***							
20. 41	34. 10							
21. 56	33. 20							
	***							
23. 59	38. 5							
Aug.19		Aug.19		Aug.19		Aug.19		
0. 0	21. 38. 5	0. 0	·1079	0. 0	·01310	1. 40	68 ·0	69 ·0
1. 1	37. 10	1. 15	·1080	1. 6	·01278	3. 40	71 ·0	71 ·5
1. 15	38. 40	1. 32	·1083	2. 19	·01189	9. 40	72 ·8	74 ·2
	***	2. 16	·1079	3. 30	·01010	21. 40	68 ·8	70 ·2
2. 41	35. 0	2. 37	·1082	5. 11	·00577			
2. 52	33. 40	4. 45	·1080		·00616			
3. 4	34. 0	6. 10	·1076	9. 24	·00574			
3. 54	30. 0	7. 24	·1084	11. 20	·00556			
	***	9. 46	·1085	15. 39	·00772			
6. 0	27. 5	12. 9	·1087	17. 55	·01104			
7. 0	29. 0	15. 11	·1091	22. 0	·01215			
	***	15. 29	·1093	23. 59	·01240			
9. 22	33. 50	19. 25	·1094					
9. 47	33. 0	21. 54	·1082					
	***	23. 10	·1084					
16. 21	37. 30	23. 59	·1092					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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.19								
h m	° ′ ″	h m		h m		h m	°	°
19. 16	21. 35. 0							
20. 7	36. 30							
20. 43	35. 30							
22. 27	37. 35							
23. 59	43. 40							
Aug.20		Aug.20		Aug.20		Aug.20		
0. 0	21. 43. 40	0. 0	·1092	0. 0	·01240	1. 40	69 ·8	70 ·9
0. 40	43. 5	2. 37	·1086	1. 33	·01249	3. 40	71 ·0	71 ·8
0. 55	44. 30	2. 41	·1073	3. 21	·01172	9. 40	70 ·6	72 ·0
1. 30	42. 10	3. 30	·1082	7. 6	·00759	21. 40	65 ·4	66 ·2
1. 45	43. 10	4. 4	·1076	8. 45	·00715			
	***	4. 17	·1082	10. 34	·00779			
3. 9	38. 40	4. 30	·1076	15. 37	·01380			
4. 37	33. 10	4. 37	·1088		·01328			
4. 41	34. 10	5. 15	·1084	22. 15	·01303			
4. 59	33. 0	5. 27	·1093	23. 59	·01242			
	***	5. 45	·1091					
5. 52	31. 40	6. 52	·1096					
	***	7. 6	·1081					
7. 26	32. 20	7. 32	·1092					
	***	8. 45	·1096					
8. 10	34. 45	9. 53	·1089					
8. 27	34. 30	10. 13	·1100					
10. 17	37. 0	11. 5	·1093					
10. 42	34. 30	12. 9	·1094					
11. 11	34. 0	12. 41	·1092					
12. 0	36. 25	16. 38	·1096					
12. 51	32. 30	19. 9	·1092					
13. 14	33. 50		***					
	***	23. 5	·1076					
16. 43	32. 30		***					
	***	23. 59	·1082					
17. 50	33. 0							
	***							
18. 35	32. 0							
19. 4	34. 0							
19. 37	33. 40							
20. 52	35. 30							
	***							
22. 25	32. 30							
23. 45	35. 0							
23. 52	37. 40							
23. 59	37. 0							
Aug.21		Aug.21		Aug.21		Aug.21		
0. 0	21. 37. 0	0. 0	·1082	0. 0	·01235	1. 40	68 ·8	69 ·4
0. 16	36. 30	3. 45	·1083	1. 0	·01120	3. 40	71 ·8	72 ·8
0. 25	38. 30	4. 0	·1080	1. 23	·01113	9. 40	72 ·7	73 ·0
	***	4. 27	·1087	3. 8	·00620	21. 40	68 ·0	69 ·0
2. 42	34. 20	4. 39	·1080	9. 53	·00569			
	***	6. 32	·1086	11. 19	·00644			
2. 58	36. 30	7. 10	·1083	16. 21	·01185			
	***	12. 43	·1090	18. 34	·01383			
4. 39	32. 0	13. 24	·1102		·01341			
4. 45	33. 15	14. 26	·1090	21. 30	·01335			
5. 7	32. 0	14. 46	·1093	22. 51	·01283			
	***	15. 31	·1091	23. 59	·01139			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug.21		Aug.21						
h m	° ′ ″	h m		h m		h m	°	°
5. 54	21. 32. 20	16. 0	·1096					
	***	17. 23	·1094					
6. 32	33. 35	18. 3	·1104					
	***	18. 38	·1105					
6. 51	34. 40	19. 35	·1108					
7. 40	35. 55	20. 30	·1101					
	***	22. 45	·1076					
8. 16	34. 30	23. 9	·1075					
9. 42	35. 0	23. 59	·1072					
9. 45	33. 30							
10. 11	35. 20							
	***							
12. 15	35. 30							
	***							
12. 41	33. 30							
	***							
13. 16	36. 30							
14. 22	32. 0							
14. 42	33. 5							
15. 11	32. 0							
15. 42	33. 15							
16. 12	32. 30							
16. 55	33. 40							
17. 26	34. 55							
	***							
18. 17	34. 0							
	***							
19. 15	36. 10							
19. 36	35. 0							
	***							
20. 21	36. 30							
	***							
21. 32	41. 40							
22. 10	42. 0							
22. 16	40. 0							
22. 45	38. 0							
	***							
23. 59	41. 5							
Aug.22		Aug.22		Aug.22		Aug.22		
0. 0	21. 41. 5	0. 0	·1072	0. 0	·01125	1. 40	73 ·0	73 ·7
	***	1. 25	·1070	0. 30	·01035	3. 40	76 ·1	76 ·6
0. 49	41. 30	1. 39	·1072	1. 0	·00965	9. 40	77 ·2	78 ·0
0. 54	45. 35		***	2. 17	{·00664	22. 55	72 ·9	73 ·5
1. 43	42. 40	2. 17	·1068		·00720			
	***		***	5. 0	·00780			
2. 27	38. 30	4. 0	·1067	9. 54	{·00764			
2. 52	38. 30		***		·00806			
3. 0	37. 30	4. 45	·1067	7. 30	{·00724			
3. 7	38. 35		***		·00742			
3. 15	36. 30	4. 57	·1072	9. 0	·00716			
3. 44	36. 0	5. 10	·1068	10. 21	·00734			
3. 51	34. 0	5. 52	·1071	11. 38	·00781			
	***	6. 7	·1068	16. 30	·01474			
5. 41	29. 20	10. 0	·1079	22. 0	·01415			
6. 43	29. 0	10. 30	·1077	23. 16	·01332			
8. 28	35. 0	10. 58	·1096	23. 59	·01240			
9. 4	34. 20	11. 6	·1093					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug.22		Aug.22						
h m	° ′ ″	h m		h m		h m	°	°
9. 29	21. 34. 45	11. 17	·1080					
10. 15	30. 5	12. 0	·1072					
10. 57	35. 30	13. 23	·1079					
11. 12	31. 50	13. 45	·1077					
11. 57	30. 10	14. 13	·1080					
13. 15	36. 5	14. 48	·1080					
14. 41	35. 30	15. 52	·1085					
15. 29	36. 30	16. 7	·1083					
16. 48	34. 35	16. 19	·1084					
17. 11	35. 30	16. 51	·1083					
18. 7	33. 55	17. 55	·1089					
19. 42	38. 20	18. 28	·1081					
19. 51	38 0	19. 22	·1089					
20. 22	39. 30	20. 45	·1083					
20. 36	38. 50	22. 13	·1067					
20. 55	39. 0	22. 52	·1070					
21. 21	36. 40	23. 59	·1071					
22. 10	34. 45							
23. 13	38. 30							
23. 27	37. 30							
23. 31	38. 55							
23. 59	38. 30							
Aug.23		Aug.23		Aug.23		Aug.23		
0. 0	21. 38. 30	0. 0	·1071	0. 0	·01236	8. 40	81 ·0	81 ·3
	***	0. 37	·1075	0. 49	·01060	12. 40	77 ·9	78 ·2
0. 49	38. 40	1. 2	·1075	1. 53	{·00684	13. 40	76 ·7	72 ·5
1. 19	38. 10	1. 15	·1070		·00724	14. 40	76 ·9	77 ·6
1. 51	38. 35	1. 34	·1072	3. 39	·00820	15. 40	76 ·7	77 ·3
	***	2. 12	·1066	4. 53	{·00817	16. 40	76 ·2	76 ·7
2. 12	37. 30	2. 26	·1070		·00860	17. 40	75 ·7	76 ·1
	***	3. 39	·1069	6. 26	{·00784	18. 40	74 ·8	75 ·4
2. 29	38. 20	3. 13	·1059		·00810	19. 40	74 ·0	74 ·8
	***	4. 36	·1049	7. 35	·00794	20. 40	74 ·0	74 ·2
4. 0	34. 30	6. 54	·1068	9. 49	·00863	21. 40	74 ·1	74 ·3
4. 27	35. 0	7. 20	·1059	12. 52	·01155	22. 40	74 ·7	75 ·0
	***	8. 2	·1067	15. 7	·01516	23. 40	76 ·3	76 ·2
5. 20	31. 50	8. 10	·1063	19. 53	{·01473			
	***	8. 27	·1065		·01295			
6. 57	32. 50	8. 39	·1063	21. 5	·01406			
7. 40	31. 55	9. 8	·1066	22. 36	·01396			
8. 22	34. 5	9. 32	·1063	23. 59	·01202			
8. 56	31. 20	10. 4	·1068					
9. 27	33. 25	10. 10	·1074					
9. 51	32. 40	10. 35	·1068					
10. 10	29. 25	12. 22	·1072					
10. 28	32. 0	12. 48	·1081					
11. 3	29. 30	13. 10	·1077					
	***	13. 32	·1082					
13. 11	32. 30	13. 43	·1080					
13. 51	29. 10	15. 3	·1078					
	***	15. 24	·1078					
14. 40	32. 50	15. 50	·1080					
	***	17. 25	·1081					
16. 2	31. 15	23. 59	·1056					
16. 30	32. 0							
16. 41	31. 30							
17. 9	32. 40							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug.23								
h m	° ′ ″	h m		h m		h m	°	°
17. 35	21. 31. 10							
19. 11	32. 50							
19. 28	31. 30							
19. 57	34. 0							
	***							
20. 42	33. 30							
21. 12	34. 20							
22. 0	32. 5							
23. 11	33. 30							
23. 59	36. 15							
Aug.24		Aug 24		Aug.24		Aug.24		
0. 0	21. 36. 15	0. 0	·1056	0. 0	·01200	0. 40	77 ·9	77 ·8
1. 19	36. 30	2. 15	·1054	0. 43	·01060	1. 40	79 ·0	78 ·7
1. 47	37. 50	2. 38	·1057	1. 26	·00918	2. 40	80 ·4	80 ·3
2. 54	32. 25	3. 3	·1053	2. 16	·00735	3. 40	81 ·1	81 ·2
3. 3	34. 50	3. 23	·1058	3. 45	·00861	4. 40	81 ·8	82 ·0
3. 47	33. 30	3. 26	·1054	5. 21	·00836	5. 40	82 ·0	82 ·5
4. 15	31. 35		***	5. 27	·00884	6. 40	82 ·3	82 ·5
4. 57	30. 30	5. 0	·1058	6. 0	·00858	7. 40	81 ·3	81 ·7
5. 11	31. 30	5. 27	·1052	7. 45	·00853	8. 40	80 ·7	81 ·2
5. 41	30. 40	9. 10	·1072	9. 4	·00927	9. 40	79 ·5	80 ·3
6. 0	31. 0	9. 43	·1074	10. 10	·01057	10. 40	78 ·5	80 ·0
7. 15	33. 30	11. 0	·1081	12. 30	·01498	11. 40	77 ·4	78 ·0
	***	11. 39	·1074	17. 19	·01458	21. 40	71 ·0	71 ·5
8. 11	32. 35	12. 9	·1074	22. 30	·01386			
8. 36	33. 40	12. 30	·1072	23. 59	·01271			
	***	20. 15	·1079					
10. 8	32. 40	23. 10	·1062					
	***	23. 59	·1064					
10. 58	33. 30							
	***							
11. 33	32. 0							
11. 57	33. 15							
12. 16	32. 30							
12. 34	33. 50							
	***							
15. 57	34. 0							
16. 28	35. 0							
17. 1	34. 0							
	***							
17. 26	34. 35							
	***							
17. 45	33. 30							
	***							
18. 0	34. 35							
	***							
19. 3	33. 30							
	***							
19. 43	34. 20							
	***							
21. 28	32. 30							
21. 41	33. 30							
	***							
22. 30	31. 35							
	***							
23. 59	34. 10							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug.25		Aug.25		Aug.25		Aug.25		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 34. 10	0. 0	·1064	0. 0	·01260	1. 40	76 ·c	75 ·4
	***	4. 0	·1076	1. 10	·01133	3. 40	77 ·5	77 ·5
0. 31	34. 30	4. 7	·1071	3. 38	·00617	9. 40	74 ·8	76 ·0
1. 21	38. 15	4. 26	·1075		·00695	21. 40	64 ·7	66 ·4
1. 27	37. 35		***	7. 53	·00602			
1. 45	39. 50	8. 0	·1081	8. 49	·00657			
	***		***	10. 23	·00895			
2. 12	39. 0	11. 25	·1098	13. 0	·01366			
2. 41	35. 0		***	17. 39	·01331			
	***	11. 57	·1105		·01220			
4. 40	30. 5	12. 30	·1102	18. 10	·01341			
4. 52	33. 0	13. 19	·1104		·01294			
5. 1	32. 30	13. 26	·1142		***			
5. 27	34. 10	15. 5	·1135	22. 0	·01279			
5. 44	33. 0	17. 14	·1134	22. 53	·01287			
5. 59	33. 20	20. 30	·1131	23. 59	·01236			
6. 21	31. 30	23. 13	·1116					
6. 45	32. 0	23. 59	·1121					
7. 9	30. 30							
7. 45	33. 40							
7. 52	32. 30							
	***							
10. 29	32. 35							
	***							
11. 30	34. 0							
11. 52	32. 20							
	***							
14. 0	33. 25							
	***							
16. 11	37. 30							
	***							
17. 27	35. 20							
	***							
17. 52	36. 30							
	***							
18. 16	35. 20							
	***							
19. 35	36. 30							
19. 45	35. 30							
20. 8	36. 30							
20. 20	36. 0							
20. 45	36. 55							
21. 37	35. 25							
22. 11	37. 0							
22. 52	34. 20							
22. 57	35. 30							
23. 59	36. 40							
Aug.26		Aug.26		Aug.26		Aug.26		
0. 0	21. 36. 40	0. 0	·1121	0. 0	·01230	1. 40	68 ·0	69 ·6
	***	0. 39	·1130	0. 40	·01172	3. 40	72 ·7	72 ·4
1. 13	40. 30	1. 6	·1130	1. 15	·01084	9. 40	72 ·6	73 ·5
1. 24	39. 30	3. 19	·1071	3. 5	·00694	21. 40	64 ·0	66 ·c
1. 43	40. 20	3. 39	·1064	3. 39	·00536			
	***	4. 20	·1064		·00696			
3. 53	33. 30	4. 31	·1068	4. 26	·00589			
	***	5. 0	·1061		***			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug.26		Aug.26		Aug.26				
h m	° ′ ″	h m		h m		h m	°	°
4. 30	21. 33. 20	5. 16	·1061	9. 6	·00529			
4. 44	34. 40	5. 48	·1066	10. 19	·00554			
4. 57	32. 40	6. 45	·1068	16. 9	{·01340			
5. 10	33. 30	7. 2	·1071		{·01282			
5. 28	31. 30	8. 14	·1074		***			
5. 56	34. 0	8. 32	·1073	21. 30	·01254			
6. 14	32. 20	9. 36	·1081	22. 37	·01263			
6. 25	34. 30	9. 53	·1080	23. 59	·01152			
6. 43	35. 20	10. 12	·1084					
7. 16	33. 30	10. 17	·1081					
8. 44	33. 20	10. 41	·1083					
8. 58	31. 30	11. 10	·1081					
9. 15	33. 25	11. 26	·1085					
10. 38	32. 15	11. 34	·1082					
12. 11	34. 0	12. 0	·1084					
13. 51	29. 25	12. 20	·1090					
14.	30. 5	12. 30	·1089					
14. 41	27. 30	12. 47	·1093					
15. 0	30. 5	13. 9	·1091					
15. 44	28. 30	13. 31	·1095					
16. 30	33. 40	13. 58	·1090					
17. 17	30. 5	14. 15	·1096					
17. 42	31. 40	14. 36	·1096					
18. 42	32. 35	14. 52	·1091					
19. 3	31. 30	15. 41	·1096					
19. 29	31. 35	15. 57	·1094					
19. 52	32. 40	16. 13	·1088					
21. 40	33. 40	16. 31	·1085					
23. 42	37. 20	17. 0	·1097					
23. 59	37. 30	17. 10	·1100					
		17. 33	·1096					
		19. 30	·1093					
		22. 25	·1071					
		22. 41	·1067					
		23. 59	·1071					
Aug.27		Aug.27		Aug.27		Aug.27		
0. 0	21. 37. 30	0. 0	·1071	1. 24	·00836	1. 40	69 ·6	70 ·4
1. 19	38. 0	1. 35	·1077	2. 31	{·00465	3. 40	71 ·9	73 ·6
1. 28	37. 30		***		{·00541	9. 40	72 ·8	74 ·1
	***	4. 30	·1073	5. 0	·00596	21. 40	62 ·0	64 ·0
2. 0	37. 20		***		***			
2. 28	37. 35	4. 52	·1075	6. 36	·00595			
2. 45	36. 10	5. 18	·1069	7. 6	{·00567			
2. 52	37. 10	5. 30	·1074		{·00582			
3. 0	36. 0	7. 39	·1072	8. 15	·00525			
	***	11. 45	·1079	9. 25	·00543			
5. 15	31. 0	12. 57	·1087	10. 36	·00620			
5. 43	32. 0	13. 11	·1092	11. 20	·00716			
6. 0	29. 20	13. 49	·1079	14. 23	{·01377			
6. 7	30. 30	15. 10	·1097		{·01321			
6. 15	29. 10	16. 0	·1093	16. 45	·01316			
6. 42	28. 0	18. 54	·1100		***			
6. 49	29. 30	20. 23	·1099	21. 53	·01204			
6. 55	29. 0	22. 30	·1079	22. 42	·01225			
7. 10	29. 30	22. 49	·1081	23. 59	·01200			
7. 36	29. 10	23. 59	·1080					
8. 3	32. 5							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug.27								
h m	° ′ ″	h m		h m		h m	°	°
8. 23	21. 31. 30							
8. 56	33. 15							
9. 15	31. 15							
9. 22	32. 20							
10. 0	32. 20							
10. 30	33. 40							
10. 51	32. 45							
11. 26	34. 50							
12. 4	33. 40							
13. 4	35. 20							
13. 30	33. 0							
14. 13	34. 30							
14. 30	32. 50							
15. 45	32. 40							
16. 30	34. 0							
16. 44	33. 15							
	***							
18. 51	31. 0							
	***							
19. 37	31. 0							
	***							
20. 11	32. 40							
20. 26	32. 30							
20. 36	33. 30							
	***							
21. 11	32. 10							
21. 17	33. 0							
21. 52	31. 10							
23. 21	35. 5							
23. 37	36. 10							
23. 45	37. 30							
23. 59	37. 0							
Aug.28		Aug.28		Aug.28		Aug.28		
0. 0	21. 37. 5	0. 0	·1080	0. 0	·01190	1. 40	66 ·7	67 ·3
0. 53	39. 45		***	0. 45	·01122	3. 40	68 ·7	69 ·3
1. 12	42. 25	5. 47	·1083	1. 30	·01004	9. 40	68 ·0	69 ·6
2. 59	38. 30		***	4. 32	{·00366	21. 40	63 ·0	65 ·0
3. 36	38. 20	7. 28	·1091		{·00432			
3. 49	38. 40	8. 15	·1086	10. 0	·00460			
4. 22	36. 35	10. 8	·1093	11. 39	·00433			
4. 59	37. 5	12. 5	·1093	14. 0	·00621			
6. 35	35. 30	13. 4	·1096	18. 59	{·01282			
6. 56	36. 30	13. 16	·1102		{·01204			
7. 45	34. 20	15. 48	·1097	23. 10	·01218			
8. 21	35. 30	18. 39	·1108	23. 59	·01200			
8. 37	37. 0	22. 15	·1091					
9. 14	37. 30	23. 19	·1083					
9. 52	36. 30	23. 59	·1082					
10. 30	37. 0							
10. 44	38. 5							
12. 13	37. 50							
12. 24	38. 30							
12. 43	38. 0							
13. 0	38. 40							
14. 45	36. 30							
15. 32	38. 30							
17. 24	36. 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.
Aug.28								
h m	° ′ ″	h m		h m		h m	°	°
17. 51	21. 37. 25							
18. 12	36. 40							
19. 15	37. 0							
19. 29	37. 50							
19. 41	37. 40							
20. 10	38. 35							
20. 17	38. 20							
23. 41	42. 20							
23. 59	43. 15							
Aug.29		Aug.29		Aug.29		Aug.29		
0. 0	21. 43. 20	0. 0	·1082	0. 0	·01200	1. 40	66 ·0	67 ·0
3. 10	42. 30	1. 45	·1088	1. 0	·01114	3. 40	67 ·0	68 ·2
3. 40	41. 10	4. 7	·1088	6. 38	·00382	9. 40	68 ·0	69 ·2
4. 37	39. 30	4. 23	·1093		·00478	22. 34	68 ·2	68 ·6
6. 12	38. 20	5. 45	·1089	9. 12	·00415			
6. 59	39. 0	7. 26	·1098	10. 34	·00430			
7. 13	38. 30	7. 34	·1106	14. 38	·00725			
7. 37	39. 0	7. 49	·1104	15. 15	·00716			
8. 12	41. 0	8. 12	·1092	16. 9	·00780			
8. 30	40. 5	8. 31	·1099	19. 45	·00929			
10. 9	40. 0	10. 19	·1099	20. 54	·00936			
10. 43	32. 30	10. 45	·1111	21. 57	·00892			
11. 22	36. 30	10. 57	·1104		·00844			
11. 52	36. 25	11. 45	·1100	23. 0	·00760			
12. 30	39. 0	12. 10	·1103	23. 59	·00640			
12. 44	38. 0	12. 36	·1108					
13. 21	39. 0	12. 46	·1106					
13. 33	38. 40	14. 0	·1112					
13. 50	39. 45	14. 21	·1108					
14. 23	38. 40	14. 52	·1132					
14. 54	42. 30	15. 1	·1131					
15. 31	31. 0	15. 20	·1114					
16. 17	36. 30	15. 38	·1112					
17. 0	38. 40	16. 10	·1112					
17. 13	38. 10	16. 23	·1109					
17. 49	38. 40	18. 24	·1114					
18. 13	37. 20	18. 53	·1109					
18. 39	38. 0	20. 30	·1106					
19. 13	37. 50	21. 30	·1093					
19. 38	39. 30	21. 54	·1082					
19. 53	38. 35	22. 55	·1073					
21. 22	38. 30	23. 59	·1062					
21. 52	29. 40							
22. 53	39. 30							
23. 59	40. 25							
Aug.30		Aug.30		Aug.30		Aug.30		
0. 0	21. 40. 25	0. 0	·1062	0. 0	·00635	7. 46	75 ·6	76 ·2
0. 43	41. 30	0. 15	·1058	0. 51	·00460	12. 40	69 ·5	71 ·6
1. 2	39. 40	0. 34	·1064		·00549	13. 40	68 ·3	70 ·7
	***	1. 8	·1062	3. 30	·00662	14. 40	67 ·2	69 ·6
2. 39	38. 10	1. 22	·1072	8. 53	·00619	15. 40	66 ·2	68 ·5
	***	1. 45	·1066	10. 5	·00685	16. 40	65 ·5	68 ·2
3. 30	35. 50	4. 10	·1066	11. 15	·00724	17. 40	64 ·9	67 ·5
	***	4. 56	·1059	14. 7	·01395	18. 40	64 ·2	66 ·8
5. 0	33. 20	5. 20	·1065		·01380	19. 40	63 ·5	66 ·3
5. 27	34. 50	5. 27	·1068		***	20. 40	63 ·3	66 ·0
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug.30		Aug.30		Aug.30		Aug.30		
h m	° ′ ″	h m		h m		h m	°	°
6. 14	21. 33. 45	5. 37	·1059	21. 24	·01278	21. 40	64 ·0	66 ·4
	***	6. 0	·1073	23. 59	·01168	22. 40	65 ·0	66 ·7
7. 4	35. 0	6. 16	·1072			23. 40	66 ·8	68 ·2
	***	6. 31	·1077					
7. 25	34. 10	6. 39	·1069					
8. 36	34. 30	8. 5	·1068					
8. 52	36. 30	8. 16	·1075					
9. 7	34. 30	8. 32	·1076					
9. 20	33. 30	8. 40	·1067					
9. 30	36. 10	9. 2	·1066					
9. 44	36. 0	9. 24	·1085					
10. 2	36. 45	9. 32	·1078					
10. 13	39. 35	9. 58	·1079					
10. 44	40. 20	10. 24	·1107					
11. 17	34. 0	10. 33	·1108					
12. 14	37. 40	10. 54	·1093					
12. 55	37. 20	11. 46	·1078					
13. 21	35. 30	12. 11	·1077					
14. 41	38. 40	12. 32	·1077					
15. 24	36. 20	12. 44	·1083					
17. 18	36. 20	12. 55	·1079					
17. 30	37. 0	13. 19	·1082					
18. 42	35. 30	13. 56	·1081					
20. 13	36. 20	14. 39	·1084					
20. 30	35. 30	15. 26	·1092					
21. 0	36. 20	17. 10	·1092					
21. 11	35. 50	17. 24	·1096					
22. 39	37. 0	18. 30	·1093					
22. 54	39. 30	19. 39	·1098					
23. 8	38. 30	20. 23	·1095					
	(†)	20. 48	·1095					
		21. 34	·1088					
		22. 7	·1076					
		22. 40	·1069					
			(†)					
Aug.31		Aug.31		Aug.31		Aug.31		
	(†)		(†)	0. 0	·01158	0. 40	68 ·9	70 ·1
1. 15	21. 42. 0	1. 30	·1069	1. 0	·00922	1. 40	70 ·8	71 ·6
1. 40	41. 20	2. 0	·1059	1. 44	·00748	2. 40	72 ·2	73 ·2
2. 25	36. 35	2. 19	·1061	2. 21	·00602	3. 40	73 ·8	74 ·7
3. 2	35. 30	3. 18	·1054	3. 32	·00620	4. 40	74 ·0	75 ·0
3. 19	37. 0	4. 0	·1073		·01034	5. 40	74 ·2	75 ·0
4. 15	34. 50	4. 7	·1070	4. 39	·00758	6. 40	74 ·2	75 ·0
4. 46	35. 0	5. 43	·1070	6. 0	·00655	7. 40	74 ·5	75 ·4
5. 13	34. 0	5. 58	·1075	8. 19	·00615	8. 40	73 ·8	74 ·8
5. 41	33. 55	6. 1	·1076	10. 6	·00714	9. 40	73 ·2	74 ·0
	***	6. 30	·1068	12. 0	·00948	10. 40	72 ·1	73 ·0
7. 4	35. 0	7. 10	·1074	14. 15	·01370	11. 40	71 ·6	72 ·4
	***	7. 34	·1070	14. 39	·01341	21. 40	67 ·0	67 ·7
7. 51	34. 30	8. 13	·1072		***			
8. 31	36. 0	8. 55	·1076	22. 39	·01284			
9. 15	35. 30	10. 16	·1070	23. 59	·01155			
9. 34	33. 40	10. 42	·1075					
10. 12	35. 55	11. 0	·1081					
10. 45	32. 50	11. 32	·1077					
11. 21	37. 0	12. 7	·1086					
11. 41	36. 0	12. 47	·1091					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 31		Aug. 31						
h m	° ′ ″	h m		h m		h m	°	°
13. 0	21. 39. 0	16. 14	·1099					
13. 52	38. 40	16. 45	·1104					
14. 0	39. 45	18. 0	·1106					
14. 15	38. 30	20. 43	·1099					
15. 55	39. 40	21. 9	·1093					
18. 49	36. 30	21. 45	·1091					
20. 0	39. 0	22. 24	·1097					
20. 40	39. 0	22. 31	·1096					
21. 27	41. 10	22. 43	·1094					
22. 7	41. 20	23. 7	·1101					
22. 25	42. 10	23. 59	·1102					
23. 0	42. 20							
23. 59	45. 10							
Sept. 1		Sept. 1		Sept. 1		Sept. 1		
0. 0	21. 45. 10	0. 0	·1102	0. 0	·01150	1. 40	69 ·0	70 ·0
0. 56	45. 20	1. 55	·1092	0. 55	·01088	3. 40	70 ·2	71 ·4
1. 10	38. 30	3. 19	·1074		(†)	9. 40	69 ·7	71 ·0
1. 52	36. 20	3. 26	·1076	2. 46	·00540	21. 40	63 ·3	65 ·4
2. 10	37. 0	4. 29	·1072	4. 39	·00579			
2. 51	32. 50	4. 38	·1078	6. 30	·00561			
3. 13	34. 0	5. 14	·1065	7. 35	·00520			
3. 32	31. 0	5. 28	·1070	9. 11	·00535			
3. 40	31. 30	7. 10	·1076	11. 3	·00637			
3. 45	30. 50	7. 31	·1074	11. 30	·00635			
3. 52	32. 0	7. 40	·1082	14. 51	·01115			
4. 9	32. 0	7. 51	·1078	15. 20	·01077			
4. 16	30. 30	8. 18	·1081	16. 30	·01054			
4. 30	32. 30	8. 20	·1077	20. 0	·01062			
4. 48	30. 0	9. 30	·1079	21. 37	{·01019			
4. 59	31. 50	9. 40	·1086		{·00920			
5. 13	29. 10	10. 39	·1080	23. 59	·00927			
5. 58	27. 0	10. 52	·1082					
6. 14	26. 45	11. 10	·1110					
7. 0	32. 30	11. 35	·1092					
	***	12. 7	·1100					
7. 45	34. 30	12. 19	·1100					
7. 52	33. 0	12. 32	·1092					
8. 0	34. 45	12. 51	·1092					
	***	13. 22	·1085					
8. 49	34. 30	13. 57	·1089					
	***	14. 24	·1084					
9. 14	32. 35	15. 15	·1096					
9. 41	27. 30	15. 53	·1082					
10. 52	32. 30	16. 20	·1094					
11. 7	31. 40	22. 0	·1085					
11. 17	34. 40	23. 59	·1093					
12. 0	29. 15							
12. 30	31. 30							
	***							
12. 46	31. 15							
	***							
13. 13	32. 10							
13. 38	31. 30							
14. 28	36. 30							
	***							
15. 13	35. 50							
15. 42	40. 45							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 1								
h m	° ′ ″	h m		h m		h m	°	°
16. 44	21. 33. 30							
17. 15	32. 20							
18. 18	32. 30							
18. 49	33. 0							
19. 0	32. 30							
19. 23	33. 25							
19. 40	32. 50							
20. 15	33. 45							
21. 0	32. 30							
21. 12	33. 30							
21. 37	32. 10							
22. 36	38. 50							
23. 37	42. 15							
23. 59	40. 30							
Sept. 2		Sept. 2		Sept. 2		Sept. 2		
0. 0	21. 40. 30	0. 0	·1093	0. 0	·00920	1. 40	64 ·0	65 ·0
0. 22	38. 50	1. 37	·1105	0. 48	·00958	3. 40	64 ·6	65 ·8
1. 0	38. 10	4. 47	·1084	1. 49	{·00954	9. 40	63 ·4	64 ·4
1. 24	37. 35	5. 34	·1081		{·00888	21. 40	59 ·2	60 ·0
1. 39	38. 0	5. 37	·1096	2. 55	{·00974			
1. 42	39. 45	6. 9	·1096		{·00954			
3. 30	33. 30	6. 35	·1101	5. 10	·00860			
	***	9. 42	·1103	6. 19	·00829			
5. 17	30. 30	10. 15	·1110	7. 35	·00836			
	***	10. 39	·1106	8. 23	·00894			
6. 45	34. 30	11. 37	·1110	9. 26:	·00995			
7. 38	34. 30	12. 13	·1109	14. 46	·00999			
8. 0	33. 15	14. 30	·1116	15. 35:	·00960			
8. 15	34. 30	14. 56	·1114	23. 59	·00918			
	***	15. 23	·1116					
10. 30	32. 55	15. 39	·1114					
	***	16. 15	·1118					
13. 39	36. 0	16. 20	·1115					
13. 51	35. 0	16. 52	·1115					
	***	19. 11	·1118					
15. 37	34. 45	20. 56	·1114					
16. 24	36. 0	22. 20	·1108					
	***	23. 27	·1113					
17. 45	33. 0							
	***							
19. 18	32. 0							
	***							
20. 54	32. 50							
21. 27	34. 30							
21. 37	33. 30							
22. 57	36. 30							
23. 59	40. 30							
Sept. 3		Sept. 3		Sept. 3		Sept. 3		
0. 0	21. 40. 30	0. 0	·1105	0. 0	·00910	1. 40	60 ·5	61 ·0
0. 38	42. 20	1. 15	·1108	2. 0	·00896	3. 40	62 ·4	62 ·6
1. 0	40. 50	1. 24	·1107	3. 18	·00822	9. 40	62 ·0	63 ·0
1. 24	42. 15	1. 36	·1112	4. 0	·00738	21. 40	61 ·0	62 ·0
1. 43	44. 0	2. 45	·1100	6. 48	·00342			
	***	3. 24	·1100	8. 35	{·00144			
5. 0	34. 25	3. 38	·1105		{·00177			
6. 27	34. 15	4. 22	·1103	11. 0	·00158			

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. 3		Sept. 3		Sept. 3		h m	°	°
h m	° ′ ″	h m		h m				
7. 5	21. 23. 0	4. 40	·1095	11. 26	—·00021			
7. 13	24. 30	5. 16	·1098	12. 23	—·00018			
7. 22	24. 30	5. 38	·1108	12. 32	—·00019			
7. 53	30. 0	5. 54	·1103	12. 52	·00000			
8. 6	29. 20	6. 7	·1106	13. 0	—·00014			
8. 23	33. 50	6. 36	·1096	13. 28	—·00037			
9. 0	33. 30	6. 47	·1097	13. 45	—·00075			
9. 26	32. 20	7. 8	·1116	14. 13	—·00077			
10. 53	29. 50	7. 16	·1111	14. 44	—·00296			
11. 8	50. 50	7. 30	·1120	15. 10	—·00080			
11. 29	29. 10	7. 45	·1101	15. 28	—·00049			
11. 44	26. 55	8. 0	·1101	15. 36	—·00103			
11. 59	28. 30	8. 9	·1103	16. 0	—·00041			
12. 12	28. 0	8. 23	·1095	16. 16	—·00057			
12. 35	12. 30	8. 44	·1114	16. 24	—·00044			
12. 51	19. 40		***	16. 33	—·00094			
13. 44	7. 50	9. 0	·1113	16. 39	—·00084			
13. 52	11. 40	9. 21	·1104	16. 53	—·00132			
14. 8	9. 10	9. 41	·1097	17. 17	—·00005			
14. 16	22. 30	10. 0	·1116	17. 23	·00000			
14. 29	21. 30	10. 5	·1106	17. 29	·00036			
14. 43	27. 0	10. 11	·1111	17. 33	·00030			
14. 59	33. 45	10. 21	·1094	18. 7	·00117			
15. 48	15. 45	10. 25	·1098	18. 30	·00109			
16. 13	27. 0	10. 31	·1092	19. 3	·00244			
16. 24	25. 30	10. 49	·1050	19. 14	·00240			
16. 30	32. 20	11. 18	·1073	19. 46	·00303			
16. 45	23. 40	11. 42	·1100	19. 55	·00308			
16. 57	27. 30	11. 46	·1089	20. 10	·00320			
17. 9	29. 20	12. 0	·1080	20. 19	·00375			
17. 15	27. 0	12. 5	·1079	21. 8	·00449			
17. 24	29. 30	12. 13	·1088	22. 10	·00617			
17. 28	26. 50	12. 27	·1070	23. 0	·00657			
17. 36	30. 0	12. 32	·1077	23. 59	·00654			
17. 40	27. 30	12. 36	·1075					
18. 10	41. 30	12. 45	·1080					
18. 29	32. 20	12. 52	·1082					
18. 34	35. 10	12. 56	·1090					
18. 41	34. 5	13. 10	·1114					
18. 45	42. 30	13. 36	·1082					
19. 12	37. 0	13. 52	·1083					
19. 27	41. 30	14. 5	·1067					
19. 35	40. 30	14. 10	·1072					
19. 41	42. 50	14. 28	·1023					
19. 45	21. 41. 30	14. 45	·0994					
20. 8	22. 2. 10	15. 17	·1104					
21. 33	21. 32. 10	15. 31	·1118					
	***	15. 42	·1094					
22. 27	37. 50	15. 54	·1103					
22. 39	36. 30	15. 58	·1097					
22. 45	40. 10	16. 13	·1118					
23. 6	37. 30	16. 22	·1097					
	***	16. 25	·1105					
23. 59	40. 40	16. 40	·1060					
		16. 46	·1067					
		17. 15	·1067					
		17. 23	·1077					
		17. 27	·1071					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Sept. 3 h m		h m		h m	°	°
		17. 32	·1083					
		17. 38	·1080					
		17. 43	·1090					
		17. 49	·1076					
		17. 54	·1086					
		18. 5	·1077					
		18. 10	·1082					
		18. 14	·1068					
		18. 20	·1073					
		18. 29	·1053					
		18. 36	·1053					
		18. 45	·1077					
		18. 53	·1068					
		19. 0	·1085					
		19. 10	·1054					
		19. 31	·1030					
		19. 40	·1038					
		19. 54	·1018					
		20. 7	·1000					
		20. 10	·1039					
		20. 16	·1024					
		20. 47	·1043					
		20. 57	·1056					
		21. 4	·1052					
		21. 35	·1074					
		22. 8	·1076					
			***					
		22. 30	·1065					
			***					
		22. 45	·1075					
			***					
		23. 1	·1064					
		23. 9	·1080					
		23. 14	·1065					
		23. 46	·1068					
		23. 59	·1065					
Sept. 4		Sept. 4		Sept. 4		Sept. 4		
0. 15	21. 42. 25	0. 0	·1065		(†)	1. 40	64 ·2	64 ·3
0. 37	41. 50	0. 24	·1058	1. 40	·00123*	3. 40	65 ·2	66 ·0
0. 57	38. 40	3. 0	·1071	2. 7	·00215	9. 40	65 ·0	65 ·2
1. 10	40. 30	3. 29	·1080	2. 53	·00116	21 40	61 ·0	61 ·4
1. 30	40. 30	3. 35	·1079	4. 6	·00049			
1. 42	42. 0	4. 36	·1090	9. 39	—·00044			
1. 57	41. 0	4. 52	·1081	12. 45	·00083			
2. 21	40. 20	5. 5	·1090	17. 46	·00616			
2. 30	39. 0	5. 18	·1088	19. 34	·00552			
	***	5. 50	·1093	21. 49	{·00521			
2. 42	41. 30	6. 0	·1089		{·00337			
2. 51	40. 30	6. 43	·1091	23. 59	·00242			
3. 6	41. 0	6. 52	·1086					
3. 27	37. 30	8. 40	·1091					
	***	9. 7	·1087					
3. 49	38. 20	10. 29	·1088					
	***	10. 50	·1083					
5. 12	38. 20	11. 28	·1093					
	***	11. 52	·1087					
5. 30	36. 30	12. 1	·1091					

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

September 3, 4, and 5. During parts of these days the Vertical Force was smaller than on any other days in the year; the Photographic Trace being, at times, lower on the sheet than the adopted base line.

September 4. A new scale for reduction of the values of ordinates of the Vertical Force curve was brought into use this day, as is explained in the Introduction.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 4		Sept. 4						
h m	° ′ ″	h m		h m		h m	°	°
5. 52	21. 36. 55	12. 16	·1087					
6. 0	35. 30	12. 37	·1092					
	***	13. 10	·1091					
6. 30	36. 10	13. 17	·1102					
	***	13. 47	·1097					
6. 45	35. 0	14. 22	·1098					
	***	14. 32	·1102					
8. 44	36. 10	14. 44	·1098					
	***	15. 23	·1106					
9. 10	35. 10	15. 57	·1092					
9. 22	36. 20	18. 3	·1089					
10. 13	35. 50	18. 16	·1082					
10. 29	34. 30	18. 53	·1095					
10. 50	35. 30	21. 7	·1094					
11. 7	35. 15	22. 16	·1081					
11. 13	35. 55	23. 59	·1080					
	***							
11. 56	34. 55							
	***							
13. 6	34. 35							
13. 25	35. 30							
13. 44	32. 50							
14. 4	34. 50							
14. 15	34. 30							
14. 30	35. 25							
15. 11	33. 20							
15. 28	30. 30							
15. 45	31. 50							
	***							
16. 15	31. 15							
16. 42	32. 0							
17. 11	30. 0							
17. 42	29. 55							
	***							
18. 45	32. 55							
	***							
20. 8	32. 0							
	***							
21. 45	37. 30							
21. 59	36. 0							
22. 15	36. 30							
22. 30	36. 0							
22. 57	37. 15							
	***							
23. 30	37. 25							
	***							
23. 59	39. 45							
Sept. 5		Sept. 5		Sept. 5		Sept. 5		
0. 0	21. 39. 45	0. 0	·1080	0. 0	·00242	1. 40	64 ·2	64 ·8
0. 15	41. 0	0. 38	·1081	1. 0	·00090	3. 40	67 ·0	67 ·2
1. 30	39. 0	0. 53	·1075	1. 30	·00060	9. 40	69 ·3	70 ·0
1. 42	38. 30	1. 0	·1070	2. 5	—·00049	23. 7	64 ·0	65 ·4
1. 49	39. 30	1. 11	·1071	4. 21	·00139			
2. 5	37. 55	2. 18	·1080	8. 30	·00123			
	***	2. 37	·1076	10. 23	·00094			
2. 50	35. 0	2. 41	·1083	11. 45	·00157			
2. 58	36. 30	2. 46	·1079	12. 57	·00275			
3. 18	34. 30	2. 52	·1088	17. 0	·00801			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 5		Sept. 5		Sept. 5				
h m	° ′ ″	h m		h m		h m	°	°
3. 45	21. 33. 45	3. 9	·1079	22. 12	·00777			
4. 38	29. 50	3. 22	·1078	23. 31	·00699			
5. 52	35. 10	3. 38	·1086	23. 59	·00660			
6. 7	35. 10	4. 37	·1078					
6. 15	36. 0	5. 5	·1081					
6. 45	35. 50	5. 20	·1078					
6. 59	33. 30	5. 39	·1078					
7. 30:	35. 50	6. 55	·1081					
7. 58	33. 30	7. 8	·1084					
	***	7. 39	·1072					
8. 31	33. 40	8. 20	·1078					
	***	8. 29	·1074					
9. 21	36. 0	8. 39	·1077					
10. 24	34. 30	9. 38	·1071					
11. 25	36. 25	11. 45	·1083					
	***	12. 42	·1082					
12. 41	35. 40	13. 34	·1093					
13. 2	41. 50	15. 15	·1088					
13. 37	35. 0	17. 0	·1093					
14. 15	35. 40	18. 24	·1094					
14. 36	34. 30	18. 39	·1090					
14. 55	36. 0	19. 10	·1092					
	***	20. 15	·1097					
16. 28	33. 55	22. 38	·1068					
17. 59	34. 50	23. 59	·1069					
	***							
19. 5	33. 50							
20. 12	34. 45							
20. 35	36. 10							
20. 54	36. 0							
21. 9	37. 25							
21. 32	37. 0							
21. 55	38. 35							
22. 4	38. 15							
22. 11	39. 20							
22. 36	38. 15							
23. 13	39. 45							
	(†)							
Sept. 6		Sept. 6		Sept. 6		Sept. 6		
	(†)	0. 0	·1068	0. 0	·00655	8. 10	69 ·7	70 ·1
0. 5	21. 41. 10	3. 36	·1078	0. 53	·00554	12. 40	66 ·2	67 ·7
0. 21	40. 40	4. 3	·1072	2. 45	·00090	13. 40	66 ·1	67 ·7
0. 40	41. 30	4. 41	·1079		·00114	14. 40	66 ·1	67 ·4
0: 57	40. 0	5. 30	·1078	5. 15	·00174	15. 40	66 ·1	67 ·0
1. 13	40. 40	10. 16	·1096	9. 0	·00135	16. 40	66 ·1	66 ·6
1. 24	39. 15	10. 23	·1093	10. 30	·00183	17. 40	66 ·1	66 ·4
	***	12. 3	·1098	14. 36	·00695	18. 40	66 ·0	66 ·1
2. 11	38. 40	15. 30	·1089	17. 6	·00915	19. 40	65 ·6	65 ·6
	***	16. 9	·1088	22. 7	·00863	20. 40	65 ·2	65 ·0
3. 30	35. 30	17. 28	·1092		·00760	21. 40	64 ·8	65 ·2
4. 1	32. 30	17. 46	·1089	23. 37	·00725	22. 40	65 ·0	65 ·2
4. 22	32. 35	18. 15	·1093		(†)	23. 40	65 ·7	66 ·0
4. 40	31. 55	18. 30	·1090					
5. 12	32. 0	19. 9	·1094					
5. 45	28. 50	21. 19	·1081					
6. 1	29. 10	21. 38	·1075					
6. 43	32. 0	22. 3	·1073					
7. 0	31. 10	22. 22	·1075					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V.F. Magnet.
Sept. 6		Sept. 6						
h m	° ′ ″	h m		h m		h m	°	°
7. 51	21. 33. 20	22. 39	·1072					
8. 15	33. 15	22. 53	·1075					
8. 58	35. 20	23. 59	·1072					
9. 30	33. 45							
10. 30	33. 10							
10. 52	34. 0							
11. 13	33. 50							
11. 30	34. 50							
11. 54	33. 40							
12. 37	35. 25							
13. 32	34. 0							
13. 46	34. 10							
14. 15	32. 30							
14. 37	32. 50							
14. 55	32. 20							
15. 13	32. 15							
15. 41	31. 50							
16. 40	32. 40							
17. 43	32. 45							
18. 0	33. 20							
18. 24	33. 35							
18. 43	34. 10							
19. 52	33. 20							
20. 7	34. 0							
20. 18	33. 0							
21. 12	34. 10							
21. 30	36. 5							
21. 42	35. 10							
21. 52	35. 30							
22. 30	39. 10							
22. 40	38. 30							
22. 55	40. 0							
23. 25	39. 40							
23. 41	40. 50							
23. 59	40. 15							
Sept. 7		Sept. 7		Sept. 7		Sept. 7		
0. 0	21. 40. 15	0. 0	·1072		(†)	0. 40	66 ·4	66 ·7
0. 29	42. 10	2. 25	·1078	1. 25	·00503	1. 40	67 ·0	67 ·3
0. 55	43. 35	2. 53	·1072	3. 12	·00188	2. 40	67 ·9	68 ·2
1. 13	39. 50	3. 19	·1079	3. 50	·00260	3. 40	68 ·7	69 ·2
1. 28	39. 30	3. 30	·1071	5. 37	·00274	4. 40	69 ·4	70 ·0
	***	3. 39	·1076	7. 15	·00236	5. 40	70 ·0	70 ·4
2. 6	42. 35	4. 7	·1048	8. 3	·00238	6. 40	70 ·1	70 ·5
2. 25	41. 0	4. 48	·1044	8. 21	·00220	7. 40	69 ·8	71 ·0
2. 41	42. 0	5. 25	·1068	8. 44	·00234	8. 40	69 ·0	70 ·0
2. 55	39. 35	5. 54	·1071	10. 48	·00196	9. 40	68 ·3	69 ·4
3. 13	39. 40	6. 10	·1076	11. 29	·00223	10. 40	67 ·6	68 ·0
3. 27	41. 20	6. 19	·1072	11. 45	·00260	11. 40	66 ·3	67 ·8
3. 52	38. 40	6. 45	·1083	12. 7	·00271	21. 40	66 ·0	67 ·0
	***	7. 42	·1061	12. 30	·00359			
4. 7	39. 30	7. 49	·1064	17. 19	·00926			
4. 16	38. 20	8. 7	·1078	21. 0	·00948			
4. 30	40. 0	8. 19	·1069	23. 59	·00804			
5. 15	33. 50	8. 27	·1088					
6. 45	35. 30	8. 47	·1078					
7. 28	31. 20	8. 55	·1083					
8. 0	29. 35	9. 21	·1078					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V.F. Magnet.
Sept. 7		Sept. 7						
h m	° ′ ″	h m		h m		h m	°	°
8. 13	21. 33. 45	9. 45	·1078					
8. 31	24. 0	10. 12	·1083					
8. 52	31. 5	10. 23	·1078					
9. 3	31. 10	10. 26	·1081					
9. 14	33. 35	10. 33	·1078					
9. 26	32. 55	10. 52	·1103					
10. 0	34. 15	11. 10	·1102					
10. 13	35. 15	11. 27	·1092					
10. 18	34. 55	11. 40	·1104					
	***	11. 52	·1088					
10. 41	39. 0	12. 9	·1071					
11. 2	28. 50	12. 33	·1092					
11. 32	29. 30	13. 0	·1074					
11. 44	28. 0	13. 11	·1080					
12. 0	33. 10	13. 43	·1081					
12. 30	24. 45	14. 18	·1086					
13. 4	31. 50	15. 23	·1076					
13. 15	31. 0	15. 41	·1077					
13. 30	32. 40	15. 48	·1074					
13. 53	31. 30	16. 30	·1083					
14. 21	33. 30	17. 13	·1090					
14. 40	31. 35	17. 17	·1086					
15. 0	31. 30	20. 37	·1093					
15. 41	36. 50	22. 36	·1074					
16. 22	33. 30	22. 40	·1079					
16. 42	32. 50	23. 10	·1076					
17. 4	31. 20	23. 59	·1080					
17. 13	32. 50							
17. 30	32. 25							
17. 39	33. 0							
17. 50	32. 25							
	***							
19. 10	33. 30							
19. 16	32. 30							
	***							
21. 22	35. 30							
21. 30	36. 30							
	***							
22. 31	37. 15							
22. 48	38. 20							
23. 13	37. 40							
23. 59	40. 35							
Sept. 8		Sept. 8		Sept. 8		Sept. 8		
0. 0	21. 40. 35	0. 0	·1080	0. 0	·00800	1. 40	67 ·4	68 ·0
	***	2. 36	·1081	1. 7	·00737	3. 40	67 ·0	68 ·7
1. 18	40. 10	3. 0	·1078	3. 0	·00605	9. 40	67 ·0	68 ·7
1. 30	39. 30	3. 38	·1083	3. 45	·00523	21. 40	63 ·0	63 ·7
2. 6	42. 0	4. 0	·1091	5. 39	·00470			
2. 57	39. 30	4. 47	·1086	7. 30	·00389			
3. 10	40. 30	4. 53	·1092	10. 18	·00383			
3. 28	39. 25	5. 15	·1081	12. 0	·00477			
4. 10	41. 10	5. 26	·1085	14. 7	·00755			
	***		***	15. 24	·00897			
5. 54	36. 30	6. 4	·1084		·00841			
7. 13	36. 20		***	17. 10	·00875			
7. 44	32. 10	6. 53	·1096	22. 36	·00855			
8. 15	34. 30		***	23. 59	·00789			

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. E. Magnet.
Sept. 8		Sept. 8						
h m	° ′ ″	h m		h m		h m	°	°
8. 37	21. 33. 55	9. 0	·1086					
8. 51	34. 20	9. 43	·1084					
9. 5	33. 30	10. 16	·1095					
9. 13	34. 0	10. 33	·1090					
9. 25	33. 55	10. 47	·1096					
9. 51	36. 30	10. 54	·1105					
10. 38	36. 10	11. 2	·1104					
11. 20	38. 30	11. 8	·1095					
11. 58	34. 30	11. 35	·1096					
12. 29	38. 0	12. 13	·1089					
13. 44	31. 40	12. 39	·1094					
	***	13. 53	·1082					
15. 16	38. 30	15. 0	·1087					
	***	15. 39	·1081					
17. 11	33. 0	16. 30	·1098					
	***	16. 44	·1094					
18. 28	32. 30	17. 23	·1102					
	***	18. 10	·1095					
23. 12	37. 55	19. 26	·1097					
23. 41	36. 50	20. 15	·1095					
23. 59	38. 0	22. 47	·1080					
		22. 23	·1081					
		23. 53	·1071					
		23. 59	·1075					
Sept. 9		Sept. 9		Sept. 9		Sept. 9		
0. 0	21. 38. 0	0. 0	·1074	0. 0	·00780	1. 40	65 ·0	65 ·7
1. 42	42. 45	0. 5	·1077	0. 45	·00720	3. 40	66 ·7	66 ·7
2. 10	41. 45	0. 15	·1075	1. 38	·00681	9. 40	68 ·5	68 ·5
2. 22	42. 5	0. 37	·1078		·00535	21. 40	63 ·7	65 ·2
3. 45	36. 10	0. 44	·1082	2. 54	·00415			
3. 55	37. 0	1. 24	·1072	5. 6	·00044			
4. 6	35. 0	1. 40	·1073		·00090			
4. 41	33. 10	1. 57	·1080	8. 30	·00120			
4. 48	33. 30	4. 0	·1091	11. 49	·00077			
5. 21	32. 30	4. 11	·1081	14. 51	·00189			
7. 15	32. 40	5. 16	·1080	17. 50	·00516			
7. 46	33. 30	5. 52	·1090	19. 22	·00617			
8. 11	32. 30	6. 12	·1086	21. 42	·00669			
8. 39	26. 40	6. 46	·1084	23. 59	·00539			
9. 0	31. 0	8. 4	·1090					
9. 21	28. 0	8. 57	·1092					
9. 39	29. 0	9. 14	·1086					
9. 45	28. 45	9. 24	·1093					
10. 26	32. 30	9. 47	·1091					
10. 44	31. 40	10. 14	·1097					
11. 9	32. 0	10. 35	·1089					
11. 34	34. 40	10. 50	·1094					
	***	10. 58	·1090					
12. 40	33. 45	12. 45	·1083					
13. 25	35. 50	13. 9	·1086					
13. 43	35. 0	14. 8	·1084					
14. 24	36. 30	14. 45	·1100					
15. 32	33. 0	15. 0	·1100					
15. 45	34. 15	15. 7	·1094					
16. 24	31. 45	16. 2	·1092					
	***	16. 13	·1096					
17. 10	32. 30	17. 54	·1091					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 9		Sept. 9						
h m	° ′ ″	h m		h m		h m	°	°
17. 45	21. 35. 30	18. 0	·1096					
18. 7	34. 30	18. 39	·1100					
	***	19. 41	·1090					
19. 44	33. 20	19. 58	·1092					
	***	21. 7	·1076					
19. 56	35. 0	21. 39	·1076					
	***	22. 0	·1070					
20. 30	34. 40	23. 25	·1059					
20. 37	35. 35	23. 59	·1062					
20. 45	35. 50							
	***							
22. 1	37. 40							
22. 12	37. 0							
22. 38	38. 0							
	***							
23. 59	36. 50							
Sept. 10		Sept. 10		Sept. 10		Sept. 10		
0. 0	21. 36. 50	0. 0	·1062	0. 0	·00520	1. 40	66 ·7	68 ·0
1. 0	39. 0	0. 37	·1071	0. 35	·00442	3. 40	70 ·5	70 ·3
1. 44	39. 30	2. 39	·1072	1. 30	·00392	9. 40	70 ·5	71 ·0
2. 27	29. 55	3. 25	·1063	2. 38	·00203	21. 40	64 ·2	66 ·0
	***	3. 54	·1065		·00256			
3. 12	32. 20	4. 4	·1072	3. 29	·00264			
3. 28	31. 25	4. 28	·1070		·00600			
3. 31	32. 20	4. 37	·1074	4. 30	·00454			
4. 8	29. 30	4. 50	·1074	7. 0	·00443			
5. 11	29. 0	5. 7	·1080	7. 51	·00409			
5. 19	30. 10	5. 25	·1074	8. 21	·00415			
5. 44	30. 5	5. 46	·1075	8. 45	·00336			
6. 14	28. 15	6. 6	·1061	12. 11	·00297			
6. 24	28. 50	6. 14	·1068	15. 0	·00381			
7. 0	21. 0	6. 24	·1062	16. 21	·00497			
7. 21	28. 30	6. 40	·1067	20. 38	·00949			
7. 42	25. 30	6. 49	·1064	21. 20	·00916			
7. 49	28. 0	7. 4	·1070	23. 59	·00897			
8. 0	25. 10	7. 15	·1058					
8. 11	26. 30	7. 38	·1062					
8. 20	24. 50	7. 47	·1044					
8. 24	26. 30	8. 24	·1079					
8. 39	32. 0	8. 40	·1054					
8. 56	26. 10	8. 49	·1064					
9. 7	29. 30	9. 0	·1056					
9. 15	28. 40	9. 41	·1070					
9. 55	34. 30	10. 23	·1066					
10. 10	33. 45	11. 15	·1076					
10. 15	35. 10	12. 0	·1076					
10. 45	33. 30	12. 21	·1082					
11. 4	35. 20	13. 24	·1076					
11. 21	35. 30	13. 37	·1082					
11. 29	36. 30	13. 49	·1078					
11. 40	34. 35	14. 47	·1066					
12. 0	34. 50	15. 0	·1078					
12. 29	38. 30	15. 38	·1075					
12. 53	35. 40	15. 47	·1077					
13. 15	33. 50	16. 0	·1076					
13. 30	34. 20	16. 12	·1078					
14. 30	44. 30	16. 27	·1074					

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. 10		Sept. 10						
h m	° ′ ″	h m		h m		h m	°	°
14. 45	21. 42. 0	17. 24	·1083					
14. 57	42. 35	17. 45	·1084					
15. 15	39. 50	17. 54	·1089					
	***	21. 0	·1078					
15. 30	39. 40	22. 44	·1067					
15. 54	36. 20	23. 59	·1069					
	***							
16. 40	37. 0							
17. 24	34. 0							
	***							
18. 45	33. 0							
	***							
20. 28	33. 30							
	***							
21. 41	36. 10							
22. 7	34. 0							
22. 58	36. 10							
23. 7	37. 30							
23. 21	37. 50							
23. 37	39. 30							
23. 59	39. 5							
Sept. 11		Sept. 11		Sept. 11		Sept. 11		
0. 0	21. 39. 5	0. 0	·1069	0. 0	·00890	1. 40	64 ·8	65 ·6
0. 15	41. 0	0. 36	·1066	0. 30	·00888	3. 40	65 ·6	66 ·2
1. 12	41. 30	0. 47	·1063	0. 54	·00894	9. 40	66 ·1	66 ·3
1. 15	47. 0	1. 31	·1073		·00780	21. 40	62 ·1	62 ·7
1. 30	45. 35	1. 39	·1069	2. 21	·00843			
1. 45	45. 20	2. 40	·1081	5. 15	·00749			
2. 8	46. 0	2. 47	·1085	10. 30	·00659			
3. 27	41. 30	2. 58	·1082	11. 24	·00665			
3. 45	42. 0	3. 20	·1083	12. 9	·00617			
4. 8	40. 0	3. 44	·1090	14. 15	·00685			
5. 13	36. 50	4. 20	·1081	16. 18	·00870			
6. 13	37. 30	4. 35	·1086	21. 37	·00835			
6. 40	38. 30	4. 49	·1078		·00495			
7. 17	37. 10	5. 11	·1079	23. 21	·00503			
7. 29	38. 0	5. 18	·1082	23. 59	·00475			
7. 54	34. 45	5. 52	·1077					
8. 30	27. 30	7. 45	·1085					
8. 48	32. 15	8. 10	·1078					
10. 30	36. 15	8. 29	·1091					
11. 13	36. 30	8. 48	·1093					
11. 39	42. 30	9. 26	·1084					
12. 45	34. 40	10. 0	·1080					
13. 4	34. 20	11. 0	·1083					
	***	11. 7	·1085					
13. 41	38. 30	11. 26	·1108					
	***	12. 6	·1088					
15. 44	37. 15	13. 32	·1078					
	***	15. 9	·1086					
16. 45	37. 40	15. 39	·1086					
	***	16. 0	·1081					
18. 15	37. 50	16. 24	·1085					
18. 48	38. 30	16. 39	·1091					
19. 3	38. 0	18. 30	·1090					
19. 21	39. 0	19. 11	·1083					
19. 42	36. 50	20. 32	·1085					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 11		Sept. 11						
h m	° ′ ″	h m		h m		h m	°	°
20. 45	21. 39. 30	21. 0	·1081					
20. 59	39. 15	21. 39	·1083					
21. 15	40. 15	23. 0	·1077					
22. 7	38. 30	23. 59	·1074					
22. 32	38. 0							
22. 58	38. 30							
23. 14	38. 0							
23. 59	38. 40							
Sept. 12		Sept. 12		Sept. 12		Sept. 12		
0. 0	21. 38. 40	0. 0	·1074	0. 0	·00470	1. 40	65 ·6	65 ·7
0. 21	39. 30	3. 36	·1077	1. 0	·00388	3. 40	66 ·0	67 ·6
0. 27	44. 0	3. 57	·1081		(†)	9. 40	69 ·0	69 ·3
1. 15	41. 0	5. 45	·1076	2. 43	·00340	22. 39	62 ·3	63 ·4
1. 51	41. 10	6. 32	·1077	3. 4	·00300			
2. 6	43. 30	6. 36	·1075	3. 47	·00294			
2. 52	40. 5	7. 0	·1079		·00540			
3. 13	39. 20	9. 4	·1080	4. 25	·00380			
4. 9	40. 40	10. 5	·1090	7. 0	·00319			
4. 22	39. 50	10. 39	·1086	11. 26	·00277			
6. 39	40. 50	10. 53	·1091	15. 10	·00544			
7. 3	40. 5	11. 7	·1087	18. 37	·00960			
10. 30	43. 35	12. 15	·1085	23. 0	·00897			
	***	14. 36	·1092	23. 59	·00916			
11. 26	43. 30	14. 54	·1089					
11. 42	44. 45	18. 9	·1090					
12. 0	42. 45	19. 10	·1086					
	***	19. 54	·1088					
12. 47	43. 50	20. 11	·1084					
13. 5	43. 10	20. 45	·1084					
13. 15	44. 0	21. 0	·1085					
13. 45	42. 20	21. 13	·1081					
14. 13	46. 20	23. 59	·1086					
15. 0	42. 45							
15. 28	43. 30							
16. 58	41. 30							
18. 55	41. 30							
	***							
20. 15	43. 0							
	***							
22. 31	47. 30							
22. 41	46. 45							
23. 0	47. 10							
23. 21	42. 0							
23. 59	43. 30							
Sept. 13		Sept. 13		Sept. 13		Sept. 13		
0. 0	21. 43. 30	0. 0	·1086	0. 0	·00916	7. 40	69 ·7	70 ·7
0. 27	42. 50		***	0. 54	·00895	12. 40	66 ·3	68 ·2
0. 47	43. 25	2. 0	·1079	1. 15	·00854	13. 40	66 ·0	67 ·5
	***		***		·00780	14. 40	66 ·0	67 ·5
4. 24	30. 5	2. 19	·1084	2. 4	·00674	15. 40	66 ·0	67 ·4
6. 1	28. 30	3. 15	·1081	3. 24	·00296	16. 40	66 ·0	66 ·5
7. 0	30. 40	5. 24	·1075	3. 38	·00336	17. 40	66 ·0	66 ·3
10. 12	34. 45	8. 34	·1088	8. 0	·00381	18. 40	66 ·0	66 ·3
11. 27	35. 15	10. 39	·1090	9. 49	·00354	19. 40	66 ·0	66 ·7
	***	12. 0	·1095	12. 24	·00514	20. 40	66 ·0	66 ·9
13. 15	34. 5	12. 30	·1088	15. 8	·00803	21. 40	66 ·3	66 ·7

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. 13		Sept. 13		Sept. 13		Sept. 13		
h m	° ′ ″	h m		h m		h m	°	°
14. 29	21. 32. 45	12. 43	·1091	16. 50	·00943	22. 40	66 ·6	67 ·2
16. 6	34. 10	15. 7	·1084	19. 37	{·01005	23. 40	67 ·0	67 ·2
16. 45	32. 30	16. 0	·1086		·00665			
16. 53	33. 20	16. 39	·1084	23. 59	·00557			
17. 12	32. 45	17. 0	·1088					
17. 45	34. 10	18. 57	·1063					
	***	19. 44	·1098					
18. 28	29. 50	21. 10	·1085					
	***	22. 15	·1088					
19. 13	36. 30	22. 30	·1077					
	***		(†)					
19. 52	37. 0							
20. 9	33. 20							
20. 30	35. 20							
20. 45	34. 0							
20. 59	36. 10							
	***							
21. 42	37. 40							
21. 54	39. 30							
22. 4	38. 25							
	***							
22. 17	39. 50							
22. 36	39. 0							
23. 14	40. 30							
23. 30	40. 0							
23. 51	41. 10							
23. 59	41. 5							
Sept. 14		Sept. 14		Sept. 14		Sept. 14		
0. 0	21. 41. 5		(†)	0. 0	·00555	0. 40	67 ·4	67 ·7
0. 40	43. 20	0. 32	·1081	0. 51	·00432	1. 40	68 ·0	68 ·0
0. 55	45. 0	1. 0	·1076	2. 39	·00365	2. 40	68 ·5	68 ·0
1. 5	46. 0	1. 11	·1079	8. 7	{·00416	3. 40	69 ·0	68 ·5
	***	1. 24	·1092		·00596	4. 40	69 ·4	69 ·5
2. 44	45. 30	2. 37	·1074	11. 0	·00539	5. 40	70 ·0	70 ·0
2. 55	46. 5	2. 40	·1078	15. 8	·00661	6. 40	70 ·2	70 ·2
3. 25	38. 40	2. 52	·1076	18. 39	·00995	7. 40	70 ·0	71 ·0
3. 37	39. 45	3. 24	·1096	19. 14	·01027	8. 40	69 ·8	71 ·0
3. 52	39. 50	3. 30	·1087	23. 59	·00977	9. 40	69 ·5	70 ·0
4. 7	38. 30	3. 40	·1091			10. 40	69 ·5	69 ·8
4. 37	38. 0	4. 35	·1088			11. 40	69 ·0	69 ·0
4. 41	38. 55	4. 38	·1100			21. 40	65 ·0	66 ·0
4. 58	38. 0	4. 50	·1087					
5. 45	38. 30	5. 13	·1081					
6. 45	34. 5	5. 48	·1082					
7. 39	39. 10	6. 9	·1078					
7. 54	39. 20		***					
8. 12	37. 45	7. 0	·1087					
8. 58	37. 30	7. 10	·1093					
9. 13	36. 50	7. 23	·1085					
9. 24	37. 0	7. 47	·1086					
9. 45	30. 30	7. 54	·1082					
	***	8. 14	·1084					
10. 45	29. 45	8. 44	·1081					
10. 58	31. 45	8. 57	·1092					
11. 19	31. 30	9. 15	·1078					
11. 41	35. 20	9. 28	·1086					
11. 52	33. 40	9. 36	·1088					
12. 14	33. 30	9. 40	·1097					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 14		Sept. 14						
h m	° ′ ″	h m		h m		h m	°	°
12. 41	21. 35. 30	9. 59	·1091					
14. 9	36. 25	10. 7	·1093					
14. 40	42. 55	10. 24	·1096					
15. 44	32. 30	10. 33	·1084					
16. 3	31. 30	10. 45	·1088					
	***	11. 4	·1073					
16. 27	31. 50	11. 7	·1078					
16. 37	33. 35	11. 15	·1071					
16. 54	30. 30	11. 28	·1079					
17. 15	30. 30	11. 35	·1076					
17. 36	32. 40	12. 0	·1078					
17. 44	32. 35	12. 26	·1075					
17. 55	33. 55	13. 20	·1080					
18. 7	33. 50	13. 27	·1083					
18. 24	37. 0	13. 36	·1079					
18. 54	38. 25	14. 5	·1080					
19. 24	36. 30	14. 25	·1077					
	***		***					
19. 43	39. 0	15. 4	·1096					
	***	15. 37	·1084					
20. 36	39. 15	16. 3	·1082					
21. 0	38. 0		***					
21. 43	41. 10	17. 15	·1086					
22. 0	40. 0	17. 49	·1077					
22. 20	41. 15	18. 6	·1081					
22. 28	38. 30	18. 12	·1078					
22. 51	40. 0	18. 37	·1087					
22. 59	39. 45	19. 44	·1081					
	***	20. 15	·1084					
23. 51	43. 30	21. 46	·1073					
23. 59	43. 0	23. 0	·1077					
		23. 37	·1066					
		23. 59	·1074					
Sept. 15		Sept. 15		Sept. 15		Sept. 15		
0. 0	21. 42. 30	0. 0	·1074	0. 0	·00970	1. 40	67 ·4	67 ·6
0. 7	42. 0	1. 30	·1075	1. 7	·00934	3. 40	69 ·4	70 ·0
0. 27	45. 0	1. 44	·1069	1. 53	{·00876	9. 40	70 ·4	71 ·2
	***	2. 48	·1069		·00664	21. 40	66 ·7	67 ·2
0. 45	42. 30	3. 5	·1062	3. 7	·00516			
1. 3	44. 20	3. 23	·1068	3. 34	{·00513			
2. 36	42. 30	4. 6	·1061		·00735			
3. 9	39. 50		***	4. 22	·00594			
3. 13	42. 30	4. 39	·1068	6. 15	·00516			
3. 39	41. 50		***	9. 21	{·00455			
4. 11	38. 20	5. 0	·1066		·00763			
5. 30	36. 30		***	14. 19	·00896			
6. 11	36. 35	5. 19	·1070	16. 0	·01016			
7. 8	34. 55	8. 20	·1073	22. 10	·01034			
8. 7	35. 30	8. 40	·1091	23. 59	·00915			
8. 31	33. 50	8. 53	·1083					
8. 51	35. 35	9. 10	·1097					
9. 13	29. 10	10. 47	·1065					
9. 52	34. 0	10. 55	·1070					
10. 40	31. 30	11. 24	·1074					
11. 9	34. 30	12. 32	·1073					
	***	12. 52	·1079					
12. 11	33. 30	13. 15	·1078					
12. 33	35. 10	13. 48	·1083					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 15		Sept. 15						
h m	° ′ ″	h m		h m		h m	°	°
12. 44	21. 35. 0	14. 45	·1079					
12. 56	36. 50	17. 30	·1085					
13. 21	36. 50	22. 40	·1073					
14. 11	38. 25	23. 43	·1075					
14. 30	36. 30	23. 59	·1076					
17. 44	37. 20							
17. 58	36. 20							
21. 0	37. 50							
21. 15	38. 40							
21. 43	37. 30							
23. 41	40. 20							
23. 59	39. 45							
Sept. 16		Sept. 16		Sept. 16		Sept. 16		
0. 0	21. 39. 50	0. 0	·1076	0. 0	·00910	1. 40	71 ·2	71 ·4
0. 29	37. 55	0. 9	·1080	0. 30	·00842	3. 40	73 ·0	74 ·0
1. 11	35. 10	1. 45	·1068	1. 7	·00741	9. 40	71 ·7	73 ·0
1. 59	37. 0	2. 28	·1070	2. 15	·00554	21. 46	62 ·6	65 ·0
3. 0	30. 0	2. 43	·1064	4. 20	{·00640 ·00783			
3. 17	28. 30		***					
3. 28	31. 30	4. 0	·1060	5. 15	·00632			
	***	5. 7	·1063	8. 0	·00574			
4. 13	27. 30	5. 23	·1058	9. 39	·00647			
	***	6. 39	·1060	11. 10	·00836			
5. 0	26. 30	6. 49	·1066	12. 42	·01093			
5. 9	28. 30	7. 0	·1064	18. 0	·01020			
	***	7. 12	·1067	21. 54	·00993			
6. 13	26. 30	8. 24	·1067	22. 52	·01006			
7. 52	34. 30	8. 31	·1071	23. 59	·00930			
8. 15	35. 0	8. 54	·1070					
8. 41	37. 40	9. 6	·1075					
8. 59	36. 50	9. 21	·1071					
9. 8	37. 40	10. 53	·1076					
9. 45	35. 30	11. 45	·1076					
	***	13. 0	·1081					
10. 50	37. 45	13. 30	·1077					
11. 22	36. 20	13. 47	·1079					
	***	14. 0	·1083					
14. 30	37. 0	14. 54	·1088					
	***	15. 38	·1083					
15. 11	35. 10	15. 55	·1088					
15. 45	38. 0	17. 47	·1093					
16. 42	36. 0	21. 35	·1083					
17. 28	37. 50	23. 52	·1070					
	***	23. 59	·1071					
19. 39	35. 0							
	***							
21. 15	35. 15							
21. 36	36. 50							
22. 12	35. 35							
	***							
22. 41	38. 0							
22. 49	37. 45							
23. 30	38. 50							
23. 59	38. 40							
Sept. 17		Sept. 17		Sept. 17		Sept. 17		
0. 0	21. 38. 40	0. 0	·1071	0. 0	·00925	1. 40	69 ·0	70 ·0
1. 12	33. 30	1. 37	·1071	0. 30	·00828	3. 40	73 ·0	74 ·0
1. 45	33. 20	3. 10	·1068	1. 0	·00779	9. 40	72 ·8	73 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 17		Sept. 17		Sept. 17		Sept. 17		
h m	° ′ ″	h m		h m		h m	°	°
1. 52	21. 34. 0	3. 49	·1070	1. 53	·00553	21. 40	64 ·0	65 ·7
2. 15	30. 0	4. 6	·1064	4. 49	·00658			
	***	4. 45	·1062	7. 37	{·00549 ·00801			
3. 45	29. 50	5. 55	·1060					
3. 50	31. 50	6. 31	·1065	8. 39	·00796			
4. 11	28. 35	7. 0	·1062	10. 8	·00878			
	***	8. 0	·1072	12. 47	·01154			
5. 0	26. 0	9. 47	·1074	19. 10	·01075			
	***	10. 14	·1079	23. 59	·01041			
5. 45	25. 30	10. 43	·1075					
5. 52	29. 0	11. 6	·1077					
7. 7	28. 40	12. 7	·1074					
8. 22	35. 0	12. 45	·1080					
	***	16. 23	·1092					
10. 24	33. 10	17. 1	·1091					
11. 0	34. 30	17. 45	·1094					
	***	21. 37	·1086					
16. 29	35. 30	22. 15	·1076					
16. 45	37. 0	23. 59	·1083					
	***							
19. 38	35. 50							
20. 54	36. 30							
21. 45	39. 30							
22. 15	38. 30							
22. 27	39. 35							
22. 57	38. 0							
	***							
23. 45	38. 30							
	(†)							
Sept. 18		Sept. 18		Sept. 18		Sept. 18		
	(†)	0. 0	·1084	0. 0	·01040	1. 40	67 ·7	69 ·2
0. 10	21. 38. 0	1. 29	·1081	0. 41	·00981	3. 40	70 ·0	71 ·6
0. 28	36. 40		***	1. 24	·00840	9. 40	68 ·0	69 ·8
0. 39	37. 30	3. 3	·1078	1. 48	·00754	21. 40	59 ·0	60 ·0
1. 51	29. 20	4. 7	·1071	2. 34	·00455			
2. 26	30. 0	4. 51	·1070	3. 21	{·00470 ·00890			
	***	5. 6	·1071					
2. 56	25. 30	5. 40	·1072	4. 46	{·00590 ·00761			
	***	6. 9	·1080					
3. 30	28. 30	6. 37	·1077	5. 27	·00665			
3. 59	26. 30	6. 47	·1081	5. 52	{·00654 ·00710			
4. 15	26. 50	7. 31	·1065					
4. 41	24. 10		***	7. 18	·00677			
	***	8. 26	·1082	10. 7	·00816			
5. 10	25. 0	8. 43	·1074	11. 16	·00897			
5. 29	23. 35	9. 31	·1084	11. 34	·00942			
7. 3	29. 0	9. 50	·1095	12. 35	·00903			
7. 45	24. 30	10. 7	·1092		(†)			
8. 7	26. 40	10. 49	·1079	21. 30	·00819			
8. 30	31. 40	11. 8	·1084	22. 13	·00837			
8. 54	31. 30	11. 25	·1073	23. 0	·00916			
9. 13	33. 10	11. 51	·1079	23. 59	·00894			
9. 48	25. 0	11. 54	·1086					
10. 13	28. 20	12. 14	·1078					
10. 23	26. 20	12. 37	·1093					
10. 40	31. 0	12. 54	·1084					
10. 51	26. 40	13. 14	·1083					
11. 13	32. 50	13. 36	·1094					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 18		Sept. 18						
h m	° ′ ″	h m		h m		h m	°	°
11. 51	21. 27. 30	14. 25	·1092					
12. 26	45. 20		(†)					
13. 10	34. 15	21. 40	·1106					
13. 22	34. 40	22. 12	·1096					
	(†)	22. 22	·1110					
21. 49	38. 30	22. 36	·1094					
	***	22. 44	·1099					
22. 42	37. 30	22. 52	·1095					
	***	23. 59	·1095					
23. 44	39. 30							
23. 59	38. 30							
Sept. 19		Sept. 19		Sept. 19		Sept. 19		
0. 0	21. 38. 30	0. 0	·1095	0. 0	·00870	1. 40	62 ·6	64 ·3
0. 4	39. 30	0. 46	·1100	1. 0	·00805	3. 40	65 ·0	66 ·2
2. 15	36. 50	1. 34	·1103	3. 33	·00281	23. 14	61 ·0	62 ·4
3. 14	32. 30	3. 0	·1105	4. 0	·00322			
3. 52	25. 35	6. 0	·1097	9. 9	·00337			
4. 11	29. 10	7. 44	·1103	16. 0	·00552			
5. 18	28. 0	8. 0	·1101	19. 36	·00794			
6. 55	28. 30	8. 12	·1102	21. 20	·00853			
7. 13	27. 30	8. 31	·1101	23. 35	·00856			
8. 42	28. 35	9. 15	·1102		(†)			
9. 0	29. 20	9. 38	·1099					
9. 42	28. 50	9. 54	·1103					
11. 13	32. 20	10. 14	·1097					
11. 28	32. 0	13. 7	·1105					
11. 59	32. 50	13. 30	·1101					
12. 14	33. 30	13. 46	·1104					
12. 23	33. 50	14. 33	·1105					
12. 54	32. 45	15. 7	·1111					
13. 55	32. 45	16. 30	·1109					
14. 40	34. 50	18. 8	·1111					
15. 44	32. 0	18. 50	·1108					
18. 7	34. 10	21. 5	·1103					
18. 52	34. 15	21. 29	·1098					
20. 12	34. 50	22. 46	·1095					
20. 30	34. 30	23. 59	·1099					
21. 43	38. 5							
23. 0	41. 15							
23. 59	39. 10							
Sept. 20		Sept. 20		Sept. 20		Sept. 20		
0. 0	21. 39. 10	0. 0	·1100	0. 0	·00854	7. 37	65 ·3	68 ·0
1. 8	37. 15	2. 54	·1101	0. 52	·00760	21. 40	53 ·4	57 ·0
1. 53	32. 10	4. 9	·1092	2. 0	·00598			
2. 44	29. 5	8. 50	·1099	3. 8	{·00325			
3. 4	26. 20	9. 4	·1102		{·00375			
3. 19	28. 5	11. 38	·1113		{·00379			
3. 59	26. 10	18. 13	·1126	4. 9	{·00483			
4. 44	25. 30	21. 7	·1119	4. 39	·00474			
5. 14	29. 0	21. 46	·1116	4. 54	·00495			
5. 44	27. 30	22. 4	·1112	5. 34	·00460			
6. 12	28. 30	22. 19	·1115	5. 48	·00485			
6. 45	26. 40	22. 30	·1106	6. 30	·00474			
7. 3	28. 20	22. 54	·1117	6. 47	·00502			
7. 27	29. 0	23. 23	·1105	8. 0	·00494			
8. 15	33. 45	23. 59	·1101	9. 51	·00564			
11. 35	35. 50			10. 45	·00635			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 20				Sept. 20				
h m	° ′ ″	h m		h m		h m	°	°
18. 15	21. 33. 30			12. 54	·01060			
	***			18. 10	·00958			
19. 51	32. 20			22. 0	·00942			
	***			23. 59	·00926			
20. 43	35. 30							
21. 10	32. 10							
21. 25	35. 30							
21. 39	35. 0							
22. 0	36. 5							
22. 15	38. 30							
22. 32	37. 50							
22. 51	41. 10							
23. 13	41. 40							
23. 30	46. 50							
23. 49	45. 45							
23. 59	48. 0							
Sept. 21		Sept. 21		Sept. 21		Sept. 21		
0. 0	21. 48. 0	0. 0	·1101	0. 0	·00920	1. 40	58 ·7	61 ·2
1. 10	49. 30	2. 36	·1110	1. 47	·00855	3. 40	61 ·6	64 ·0
1. 40	46. 30	2. 48	·1097	2. 23	·00762	9. 40	65 ·0	66 ·0
1. 45	46. 50	3. 7	·1115	3. 9	·00480	21. 40	62 ·0	65 ·0
2. 41	43. 30		***	3. 34	·00324			
2. 54	43. 50	3. 55	·1098	3. 52	·00459			
3. 10	46. 5	4. 30	·1096	5. 33	·00547			
	***	4. 39	·1087	7. 30	·00475			
4. 10	32. 10	5. 7	·1086	9. 22	·00407			
	***	5. 30	·1076	10. 0	·00420			
4. 47	35. 50	5. 52	·1083	10. 53	·00403			
	***	6. 11	·1074	11. 18	·00359			
5. 25	33. 0	6. 57	·1100	14. 10	·00355			
5. 42	28. 30	7. 4	·1094	18. 0	·00506			
5. 58	29. 0	7. 30	·1093	22. 9	·00771			
6. 15	26. 50	7. 37	·1088	23. 59	·00803			
	***	8. 9	·1097					
6. 51	26. 25	8. 23	·1097					
6. 59	27. 30	8. 26	·1093					
7. 21	27. 10	9. 0	·1101					
8. 12	29. 30	9. 23	·1080					
	***	9. 39	·1092					
9. 12	29. 30	10. 15	·1085					
9. 40	21. 30	10. 43	·1095					
10. 10	26. 0	11. 0	·1112					
10. 28	25. 45	11. 7	·1109					
11. 0	32. 10	11. 22	·1112					
11. 26	30. 30	11. 43	·1102					
11. 52	31. 10	11. 54	·1104					
12. 24	39. 35	12. 12	·1093					
12. 47	36. 25	12. 39	·1108					
14. 15	37. 50	13. 30	·1102					
14. 45	34. 30	14. 42	·1106					
	***	15. 56	·1100					
15. 55	37. 30	17. 24	·1114					
16. 12	36. 15	18. 26	·1104					
16. 25	37. 15	19. 5	·1104					
16. 52	35. 5	19. 28	·1084					
17. 0	35. 55	21. 0	·1102					
17. 31:	34. 45	21. 54	·1090					

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						
h m	° ′ ″	h m		h m			°	°
18. 34	21. 38. 50	22. 32	·1093					
19. 15	39. 30	22. 58	·1072					
19. 31	37. 50	23. 47	·1092					
20. 2	40. 0	23. 59	·1090					
20. 32	40. 0							
	***							
21. 44	41. 0							
	***							
22. 1	37. 30							
	***							
23. 26	40. 30							
23. 40	43. 30							
	***							
23. 59	44. 50							
Sept. 22		Sept. 22		Sept. 22		Sept. 22		
0. 0	21. 44. 50	0. 0	·1090	0. 0	·00810	1. 40	63 ·7	66 ·1
	***	0. 45	·1079	1. 0	·00791	3. 40	65 ·0	66 ·7
1. 8	44. 0	1. 30	·1084	3. 39	·00615	9. 40	65 ·0	68 ·2
1. 45	43. 40	2. 1	·1094	5. 6	{·00423	21. 40	62 ·4	65 ·3
2. 0	42. 20	2. 23	·1086		{·00471			
2. 17	46. 30	3. 20	·1090	6. 15	{·00462			
2. 48	37. 30	3. 38	·1100		{·00584			
3. 58	37. 20	4. 0	·1091	7. 49	{·00535			
4. 44	33. 10	4. 15	·1093		{·00577			
	***	4. 58	·1089	13. 10	·00547			
6. 10	32. 0	5. 11	·1093	15. 22	·00651			
6. 30	30. 30	5. 33	·1093	20. 56	·00996			
6. 45	31. 50	5. 42	·1100	22. 45	·01040			
7. 44	29. 30	6. 7	·1094	23. 59	·01015			
8. 2	19. 35	6. 30	·1100					
8. 15	26. 30	6. 53	·1095					
	***	7. 36	·1105					
9. 40	31. 45	7. 47	·1093					
10. 12	32. 30	8. 0	·1119					
10. 45	34. 30	8. 13	·1103					
11. 55	29. 20	8. 22	·1104					
12. 45	33. 0	8. 30	·1100					
13. 0	31. 30	9. 22	·1097					
14. 0	36. 0	10. 4	·1104					
14. 18	36. 50	10. 24	·1100					
14. 44	39. 15	11. 6	·1106					
15. 41	34. 45	11. 53	·1097					
16. 58	40. 10	12. 27	·1100					
18. 13	37. 20	12. 45	·1092					
	***	13. 30	·1091					
18. 27	38. 0	14. 14	·1094					
18. 45	34. 50	14. 47	·1101					
	***	17. 0	·1094					
19. 59	36. 30	18. 30	·1103					
20. 11	34. 50	21. 7	·1094					
20. 51	35. 0	21. 36	·1086					
	***	22. 10	·1091					
21. 27	36. 50	22. 53	·1089					
22. 7	36. 30		(†)					
22. 13	38. 30							
	***							
23. 15	33. 50							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 22								
h m	° ′ ″	h m		h m		h m	°	°
23. 30	21. 33. 45							
	***							
23. 59	33. 40							
Sept. 23		Sept. 23		Sept. 23		Sept. 23		
0. 0	21. 33. 40		(†)	0. 0	·01010	1. 40	66 ·9	68 ·4
	***	1. 40	·1084*	0. 45	·00965	3. 40	68 ·6	71 ·0
0. 27	32. 20	2. 12	·1082	1. 30	·00815	9. 40	65 ·0	66 ·0
0. 50	34. 30	2. 16	·1077	2. 38	·00544	21. 46	61 ·0	64 ·0
	***	2. 38	·1084	3. 43	{·00509			
1. 21	34. 20	4. 9	·1091		{·00701			
1. 30	35. 15	5. 48	·1094	4. 9	·00660			
1. 45	33. 30	6. 22	·1081	8. 46	·00835			
	***	6. 37	·1094	11. 5	·00997			
2. 36	35. 0	6. 48	·1083	11. 37	·01015			
3. 26	29. 0	7. 0	·1106	12. 51	·01201			
3. 40	29. 20	7. 7	·1099	14. 53	·01154			
3. 55	32. 30	7. 35	·1104	16. 52	·01077			
	***	8. 39	·1082	17. 40	·01115			
5. 7	30. 0	8. 54	·1101	22. 0	·01163			
	***	9. 0	·1097	23. 59	·01118			
6. 12	30. 0	9. 30	·1107					
6. 30	25. 0	10. 0	·1092					
6. 43	27. 30	10. 52	·1100					
6. 58	20. 0	11. 16	·1117					
7. 6	22. 0	11. 49	·1097					
7. 13	22. 0	12. 25	·1104					
7. 43	30. 50	13. 12	·1094					
7. 56	30. 0	14. 19	·1098					
8. 9	31. 30	14. 51	·1086					
8. 27	30. 5	15. 20	·1107					
8. 48	22. 25	15. 55	·1110					
9. 4	27. 5	16. 6	·1114					
9. 15	23. 45	16. 24	·1130					
9. 41	29. 0	16. 43	·1131					
10. 3	32. 15	17. 34	·1111					
10. 15	31. 30	18. 0	·1116					
10. 30	33. 35	18. 23	·1108					
10. 39	33. 40		***					
10. 52	38. 0	20. 36	·1108					
11. 22	38. 30	23. 0	·1095					
12. 16	24. 45	23. 52	·1101					
12. 39	25. 10	23. 59	·1095					
13. 10	32. 0							
13. 19	31. 30							
13. 37	32. 40							
13. 48	32. 0							
14. 41	42. 30							
15. 3	42. 30							
15. 11	40. 20							
15. 36	47. 0							
16. 45	35. 10							
	***							
17. 37	39. 50							
	***							
19. 37	39. 30							
	***							
21. 27	42. 40							
	***							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept.23								
h m	° ′ ″	h m		h m		h m	°	°
21. 40	21. 40. 30							
	***							
22. 30	42. 45							
22. 53	41. 50							
23. 13	41. 50							
23. 59	35. 30							
Sept.24		Sept.24		Sept.24		Sept.24		
0. 0	21. 35. 30	0. 0	·1095	0. 0	·01130	1. 40	66 ·0	68 ·0
0. 33	34. 30	0. 37	·1083	1. 0	·01058	3. 40	68 ·7	70 ·5
	***		***	1. 35	·00948	9. 40	69 ·5	72 ·0
0. 51	36. 40	2. 25	·1089	2. 15	·00800	21. 40	67 ·7	69 ·1
1. 9	34. 0	2. 47	·1086	3. 33	{ ·00326			
1. 52	35. 30	3. 28	·1082		{ ·00474			
	***	3. 39	·1086	5. 0	·00512			
2. 36	34. 15	3. 48	·1079	7. 9	·00481			
2. 45	36. 15	4. 14	·1075	9. 15	·00494			
	***	5. 18	·1081	10. 41	·00438			
4. 32	27. 50	6. 2	·1078	15. 22	·00592			
	***	6. 24	·1086	19. 30	·00901			
5. 41	25. 30	7. 40	·1084	21. 54	·00985			
	***	7. 53	·1086	23. 59	·00968			
8. 30	29. 30	8. 24	·1076					
8. 45	21. 10	8. 38	·1079					
9. 15	32. 0	8. 44	·1092					
9. 28	28. 0	9. 0	·1093					
9. 52	32. 20	9. 7	·1082					
10. 11	35. 15	9. 40	·1093					
10. 40	32. 15	9. 53	·1079					
11. 30	36. 20	10. 8	·1091					
	***	10. 39	·1083					
15. 6	37. 55	10. 47	·1088					
15. 20	37. 20	18. 0	·1094					
16. 0	38. 30	20. 32	·1084					
16. 51	38. 0	21. 24	·1077					
17. 39	38. 50	23. 20	·1080					
	***	23. 38	·1074					
19. 10	37. 20	23. 59	·1077					
	***							
19. 53	37. 45							
	***							
20. 59	36. 10							
	***							
22. 0	40. 0							
	***							
23. 59	40. 50							
Sept.25		Sept.25		Sept.25		Sept.25		
0. 0	21. 40. 50	0. 0	·1077	0. 0	·00968	1. 48	68 ·6	70 ·2
	***	3. 9	·1088	1. 15	·00910	3. 40	69 ·0	71 ·4
0. 55	44. 0	4. 58	·1090	2. 0	·00857	9. 40	69 ·4	72 ·5
	***	5. 8	·1086	5. 35	{ ·00469	21. 40	63 ·0	66 ·0
2. 58	44. 30	5. 21	·1086		{ ·00495			
4. 11	40. 50	5. 45	·1081	9. 10	·00514			
5. 9	39. 50	6. 27	·1091	10. 30	·00496			
5. 48	38. 0	7. 22	·1086	12. 12	·00552			
	***	8. 0	·1092	15. 30	·00858			
9. 25	37. 30	8. 53	·1088	18. 51	·01274			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept.25		Sept.25		Sept.25				
h m	° ′ ″	h m		h m		h m	°	°
9. 43	21. 36. 0	9. 30	·1091	22. 10	·01214			
10. 5	37. 10	11. 16	·1092	23. 59	·01225			
10. 30	35. 0	11. 47	·1109					
11. 21	35. 30	12. 32	·1091					
11. 50	38. 20	12. 57	·1089					
12. 29	34. 10	13. 13	·1095					
	***	14. 34	·1091					
13. 23	38. 50	14. 48	·1095					
14. 10	35. 15	15. 35	·1094					
14. 37	37. 5	15. 57	·1097					
15. 8	34. 30	17. 55	·1092					
15. 29	36. 0	19. 19	·1099					
15. 47	33. 50	20. 33	·1086					
17. 45	37. 30	21. 26	·1093					
19. 43	37. 40	23. 0	·1076					
20. 11	40. 30	23. 41	·1085					
20. 42	40. 25	23. 59	·1079					
	***							
21. 12	41. 30							
21. 30	38. 10							
	***							
22. 36	35. 0							
	***							
23. 22	37. 30							
23. 59	33. 50							
Sept.26		Sept.26		Sept.26		Sept.26		
0. 0	21. 33. 50	0. 0	·1079	0. 0	·01225	1. 40	65 ·0	67 ·5
0. 21	32. 35	0. 30	·1077	1. 15	·01190	3. 40	67 ·0	69 ·3
0. 36	40. 20	0. 56	·1083	1. 37	·01165	9. 40	67 ·0	69 ·3
1. 40	38. 30	3. 23	·1076	2. 51	·01062	22. 50	65 ·0	66 ·3
2. 0	39. 45	3. 30	·1080	5. 0	·00674			
3. 16	30. 0		***	6. 29	·00462			
3. 32	30. 0	5. 6	·1092	7. 30	{ ·00383			
3. 41	29. 0	5. 25	·1086		{ ·00461			
3. 45	32. 30	9. 44	·1098	9. 8	·00494			
4. 10	30. 30	10. 9	·1104	10. 50	·00617			
4. 44	36. 0	10. 40	·1098	11. 18	·00621			
5. 21	37. 0	10. 57	·1132	11. 54	·00704			
6. 43	32. 45	11. 37	·1099	12. 25	·00716			
8. 39	37. 0	11. 52	·1120	15. 30	·01155			
10. 10	36. 0	12. 22	·1102	17. 18	·01193			
10. 32	37. 10	12. 39	·1118	21. 23	·01235			
	***		***	23. 2	·01177			
11. 29	32. 45	13. 44	·1101	23. 59	·01140			
12. 0	43. 0		***					
12. 57	30. 35	15. 37	·1107					
13. 17	32. 30		***					
13. 44	31. 30	16. 39	·1107					
14. 45	37. 0	18. 54	·1124					
15. 13	36. 0	20. 30	·1114					
15. 58	36. 30	22. 0	·1112					
16. 32	40. 20	23. 59	·1100					
16. 59	37. 50							
17. 28	39. 10							
19. 22	40. 30							
19. 39	38. 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.
Sept. 26								
h m	° ′ ″	h m		h m		h m	°	°
23. 6	21. 38. 30							
23. 16	36. 0							
23. 30	38. 0							
23. 40	37. 20							
23. 52	37. 15							
23. 59	37. 30							
Sept. 27		Sept. 27		Sept. 27		Sept. 27		
0. 0	21. 37. 30	0. 0	·1100	0. 0	·01137	8. 40	68 ·5	70 ·2
0. 9	38. 0	0. 9	·1100	1. 11	·01071	12. 40	68 ·2	69 ·6
0. 12	36. 50	0. 21	·1095	2. 35	·00920	13. 40	68 ·2	69 ·5
0. 33	35. 30	0. 35	·1097	6. 7	·00402	14. 40	68 ·1	69 ·5
0. 43	37. 0	0. 49	·1094		·00457	15. 40	68 ·1	69 ·4
	***	1. 13	·1097	9. 15	·00485	16. 40	68 ·0	69 ·5
1. 59	38. 20	1. 30	·1095	13. 39	·00473	17. 40	68 ·0	69 ·3
2. 13	37. 20	2. 5	·1098	15. 50	·00543	18. 40	68 ·0	69 ·2
3. 13	38. 0	2. 17	·1093	23. 59	·00492	19. 40	68 ·0	69 ·2
5. 7	34. 40	2. 30	·1094			20. 40	68 ·1	69 ·3
8. 25	33. 10	4. 41	·1098			21. 40	67 ·3	69 ·3
9. 0	35. 30	4. 55	·1104			22. 40	67 ·3	69 ·5
10. 36	34. 10	6. 15	·1095			23. 40	67 ·4	69 ·5
11. 48	36. 35	10. 30	·1103					
12. 43	37. 30	10. 46	·1100					
12. 56	38. 40	13. 27	·1107					
14. 10	34. 30	14. 24	·1098					
15. 45	33. 50	16. 15	·1098					
16. 11	35. 50	19. 6	·1106					
18. 57	37. 50	21. 37	·1094					
19. 49	34. 0	22. 10	·1096					
20. 12	35. 5	22. 55	·1095					
21. 20	33. 50		(†)					
21. 34	37. 5							
22. 0	37. 20							
22. 57	38. 40							
23. 59	41. 50							
Sept. 28		Sept. 28		Sept. 28		Sept. 28		
0. 0	21. 41. 50		(†)	0. 0	·00485	0. 40	67 ·3	69 ·4
0. 37	41. 10	1. 40	·1093*	1. 30	·00454	1. 40	67 ·4	69 ·5
0. 45	41. 55	1. 54	·1092	2. 52	·00472	2. 40	67 ·7	69 ·7
1. 8	40. 50	2. 45	·1091	4. 30	·00396	3. 40	68 ·0	70 ·0
1. 52	39. 30		***		·00435	4. 40	68 ·0	70 ·0
2. 12	38. 40	3. 10	·1094	5. 54	·00439	5. 40	68 ·3	70 ·2
3. 0	40. 5		***	8. 0	·00423	6. 40	68 ·2	70 ·1
3. 13	39. 30	6. 0	·1093	10. 36	·00479	7. 40	67 ·7	70 ·0
4. 10	38. 40		***	11. 39	·00568	8. 40	67 ·0	69 ·7
4. 56	35. 0	8. 4	·1098	15. 40	·01203	9. 40	66 ·7	69 ·5
5. 34	33. 10		***	21. 36	·01107	10. 40	65 ·8	68 ·0
5. 47	34. 50	9. 39	·1097		·00823	11. 40	65 ·2	68 ·0
	***		***	23. 7	·00921	21. 40	58 ·0	61 ·2
7. 13	31. 50	12. 18	·1100	23. 59	·00920			
7. 44	32. 0	19. 0	·1114					
9. 21	28. 10	21. 0	·1112					
9. 47	30. 0	21. 24	·1107					
10. 41	28. 40	21. 45	·1106					
10. 54	29. 30	21. 54	·1104					
11. 7	28. 0	22. 10	·1106					
11. 13	30. 30	22. 54	·1099					
	***		(†)					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 28								
h m	° ′ ″	h m		h m		h m	°	°
15. 54	21. 38. 30							
18. 51	38. 35							
19. 11	37. 10							
	***							
21. 4	36. 55							
21. 44	33. 0							
21. 58	34. 30							
22. 21	34. 0							
23. 59	36. 0							
Sept. 29		Sept. 29		Sept. 29		Sept. 29		
0. 0	21. 36. 0	0. 0	·1092	0. 0	·00912	1. 40	62 ·5	65 ·0
0. 36	36. 10	0. 30	·1090	1. 0	·00841	3. 40	64 ·7	67 ·3
0. 43	37. 30	1. 0	·1092	1. 30	·00786	9. 40	64 ·3	67 ·0
1. 24	33. 30	2. 30	·1093	3. 14	·00382	21. 40	59 ·7	62 ·3
2. 43	29. 10	4. 43	·1096	4. 51	·00429			
2. 51	30. 30	5. 9	·1093	8. 54	·00350			
3. 29	28. 30	7. 9	·1103	9. 50	·00393			
3. 44	29. 30	8. 15	·1100	13. 11	·00682			
3. 55	26. 35	8. 33	·1106	18. 1	·01175			
4. 8	28. 40	9. 10	·1107	19 40	·01141			
4. 15	28. 0	9. 39	·1105	21. 19	·01134			
4. 31	30. 10	11. 0	·1109	23. 59	·01137			
	***	11. 12	·1106					
5. 20	30. 0	13. 30	·1110					
5. 41	32. 30	13. 37	·1113					
5. 52	32. 0	14. 21	·1112					
6. 57	35. 10	14. 43	·1117					
7. 12	34. 30	15. 50	·1111					
	***	16. 47	·1117					
9. 11	36. 50	17. 51	·1110					
9. 45	34. 30	18. 40	·1130					
13. 19	34. 30	19. 9	·1135					
13. 45	35. 50	19. 15	·1128					
15. 45	38. 20	19. 24	·1132					
16. 0	40. 30	19. 56	·1130					
17. 0	39. 0	20. 8	·1121					
	***	20. 23	·1128					
17. 24	38. 0	21. 54	·1104					
17. 45	37. 30	22. 0	·1106					
18. 10	38. 30	22. 8	·1102					
	***	22. 15	·1108					
18. 43	38. 0	22. 26	·1105					
18. 52	39. 0	22. 34	·1112					
18. 58	37. 30	22. 53	·1108					
	***	23. 22	·1096					
19. 32	38. 30	23. 59	·1092					
19. 43	41. 0							
19. 52	39. 20							
20. 8	38. 45							
20. 14	41. 10							
20. 29	39. 30							
	***							
21. 25	39. 30							
21. 52	36. 30							
21. 59	38. 30							
22. 12	37. 55							

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.
Sept. 29								
h m s	° ′ ″	h m		h m		h m	°	°
22. 26	21. 39. 30							
23. 13	37. 0							
23. 22	40. 40							
23. 34	40. 20							
23. 59	43. 0							
Sept. 30		Sept. 30		Sept. 30		Sept. 30		
	(†)		(†)	1. 40	·01075*	1. 40	62 ·7	64 ·2
1. 40	21. 41. 21*	1. 40	·1083*		(†)	3. 40	64 ·6	65 ·3
	(†)		(†)	3. 15	·00878	9. 40	67 ·0	68 ·7
3. 30	36. 50	3. 20	·1082	4. 24	·00769	21. 40	61 ·0	64 ·0
3. 46	34. 30	3. 31	·1084	6. 11	{·00403			
4. 27	32. 55	3. 53	·1082		{·00475			
5. 12	32. 55	4. 35	·1088	9. 50	·00441			
6. 6	29. 0	6. 0	·1085	11. 4	·00360			
6. 11	29. 15	6. 17	·1077	15. 40	·00801			
7. 8	26. 20	6. 45	·1078	20. 26	·01197			
7. 40	28. 30	7. 39	·1084	21. 39	{·01204			
8. 20	29. 30	7. 51	·1090		{·00736			
8. 42	28. 20	7. 54	·1085	23. 59	·00735			
10. 0	32. 15	9. 10	·1089					
10. 36	25. 25	9. 39	·1086					
10. 53	30. 50	9. 45	·1094					
11. 7	30. 50	9. 57	·1097					
11. 18	32. 35	10. 24	·1121					
11. 33	32. 15	10. 36	·1122					
11. 56	33. 45	10. 52	·1104					
12. 13	32. 45	11. 25	·1102					
13. 45	36. 10	11. 36	·1104					
15. 35	35. 30	12. 23	·1108					
16. 47	36. 30	12. 48	·1106					
17. 12	38. 30	13. 2	·1108					
19. 23	42. 30	13. 10	·1105					
19. 40	44. 0	15. 9	·1113					
20. 36	42. 40	18. 0	·1124					
21. 37	44. 50	18. 36	·1125					
21. 52	43. 30	20. 43	·1116					
22. 21	43. 45	21. 2	·1111					
22. 59	40. 30	22. 30	·1108					
23. 8	43. 10	22. 48	·1105					
23. 27	43. 40	22. 54	·1106					
23. 42	42. 45	23. 59	·1098					
23. 59	43. 45							
Oct. 1		Oct. 1		Oct. 1		Oct. 1		
0. 0	21. 43. 45	0. 0	·1098	0. 0	·00735	1. 40	64 ·0	66 ·5
1. 0	42. 0	2. 21	·1086	0. 30	·00690	3. 40	65 ·6	68 ·2
1. 25	42. 40	2. 39	·1081	1. 12	·00637	9. 40	68 ·0	70 ·5
2. 8	40. 30	2. 51	·1082	2. 40	·00496	21. 40	61 ·6	64 ·6
2. 19	41. 40	3. 5	·1081	4. 9	·00536			
3. 12	38. 20	3. 21	·1088	10. 6	·00482			
	***	4. 15	·1080	11. 20	·00468			
3. 44	38. 10	5. 25	·1085	13. 53	·00553			
4. 45	34. 20	5. 44	·1083	16. 10	·00775			
5. 10	34. 10	5. 56	·1088	17. 52	·01204			
	***	6. 40	·1082	20. 39	·01195			
5. 59	30. 0	7. 39	·1092	23. 59	·01233			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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. 1		Oct. 1						
h m	° ′ ″	h m		h m		h m	°	°
6. 41	21. 31. 50	8. 11	·1090					
	***	8. 43	·1094					
8. 14	31. 30	9. 30	·1094					
9. 46	34. 30	10. 16	·1103					
10. 13	32. 45	10. 45	·1099					
11. 7	35. 30	10. 53	·1102					
11. 21	34. 45	13. 50	·1103					
12. 13	35. 0	14. 14	·1106					
12. 51	37. 20	16. 45	·1106					
13. 0	36. 40	18. 5	·1111					
13. 48	37. 45	18. 37	·1106					
15. 0:	36. 25	19. 25	·1113					
16. 39	38. 50	20. 30	·1114					
16. 52	38. 5	20. 49	·1110					
17. 41	38. 35	21. 9	·1113					
18. 43	42. 50	22. 7	·1111					
	***	22. 54	·1101					
20. 31	41. 30	23. 30	·1099					
20. 58	42. 15	23. 52	·1092					
21. 26	41. 30	23. 59	·1093					
22. 0	42. 30							
22. 35	38. 45							
22. 44	39. 50							
23. 59	34. 0							
Oct. 2		Oct. 2		Oct. 2		Oct. 2		
0. 0	21. 34. 0	0. 0:	·1093	0. 0	·01230	1. 40	65 ·8	67 ·3
0. 15	32. 30	5. 9	·1084	1. 20	·01123	3. 40	68 ·2	70 ·0
0. 23	34. 50	5. 22	·1088	2. 5	·01034	9. 40	69 ·0	70 ·3
0. 45	31. 30	6. 17	·1084	4. 20	{·00515	21. 40	63 ·8	66 ·4
0. 51	38. 40	6. 36	·1078		{·00561			
1. 4	38. 10	7. 5	·1074	6. 43	{·00526			
	***	7. 30	·1092		{·00842			
2. 0	38. 10	7. 38	·1089	8. 7	·00821			
2. 56	31. 15	7. 49	·1074	11. 30	·00777			
3. 13	31. 0	9. 19	·1077	12. 21	·00901			
3. 30	29. 15	9. 33	·1083	13. 53	·01032			
3. 39	31. 0	10. 0	·1082	16. 24:	·01294			
3. 51	29. 10	11. 23	·1097	20. 30	·01295			
5. 43	26. 40	11. 37	·1107	23. 59	·01241			
7. 0	29. 20	12. 10	·1094					
7. 15	23. 50	13. 34	·1099					
7. 42	28. 5	14. 30	·1094					
8. 8	25. 30	15. 2	·1102					
8. 41	31. 30	15. 54	·1098					
9. 44	27. 0	16. 30	·1107					
10. 40	33. 20	19. 38	·1099					
11. 11	34. 30	19. 56	·1105					
11. 21	33. 35	22. 30	·1088					
11. 43	36. 35	22. 42	·1095					
12. 13	32. 0	23. 9	·1096					
13. 14	35. 30	23. 37	·1092					
13. 44	33. 30	23. 59	·1095					
14. 41	38. 0							
15. 42	37. 30							
16. 36	38. °0							
	***							
17. 7	36. 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.	Readings of Thermometers. Of V. F. Magnet.
Oct. 2								
h m	° ′ ″	h m		h m		h m	°	°
19. 40	21. 36. 30							
19. 53	33. 20							
22. 50	33. 30							
23. 15	32. 30							
	***							
23. 30	35. 0							
23. 43	33. 0							
23. 59	33. 50							
Oct. 3		Oct. 3		Oct. 3		Oct. 3		
0. 0	21. 33. 50	0. 0	·1095	0. 0	·01204	1. 40	66 ·0	67 ·6
0. 11	32. 0	1. 29	·1093	2. 39	·01235	3. 40	66 ·4	68 ·2
0. 28	32. 10	1. 46	·1096	3. 54	·01254	9. 40	67 ·5	69 ·4
0. 58	34. 0	1. 55	·1094	11. 0	·01222	22. 50	65 ·5	66 ·7
1. 15	32. 30	3. 12	·1089	11. 54	·01167			
1. 34	33. 0	3. 44	·1092		***			
1. 43	35. 0	4. 17	·1086	23. 0	·01096			
2. 45	34. 10	7. 0	·1093	23. 59	·01119			
2. 50	35. 40	8. 39	·1104					
3. 13	31. 30	9. 27	·1099					
3. 25	34. 30	10. 55	·1106					
4. 22	26. 10	12. 12	·1104					
5. 36	30. 5	12. 36	·1106					
6. 2	29. 20	12. 54	·1104					
6. 43	31. 50	13. 23	·1108					
7. 9	31. 35	13. 41	·1105					
11. 7	35. 30	14. 22	·1111					
13. 30	35. 50	15. 0	·1105					
14. 8	38. 10	15. 44	·1109					
14. 29	37. 0	15. 49	·1105					
14. 59	38. 30	16. 17	·1109					
15. 39	36. 0	19. 7	·1108					
16. 10	37. 55	21. 0	·1102					
16. 41	36. 30	22. 4	·1085					
17. 45	37. 30	23. 59	·1093					
19. 41	37. 30							
20. 27	35. 30							
20. 58	37. 5							
21. 21	36. 50							
21. 40	37. 10							
22. 11	36. 45							
23. 59	37. 10							
Oct. 4		Oct. 4		Oct. 4		Oct. 4		
0. 0	21. 37. 10	0. 0	·1093	0. 0	·01119	9. 20	61 ·0	64 ·0
2. 37	38. 30	5. 4	·1103	0. 53	·01088	12. 40	59 ·8	63 ·2
5. 50	36. 30	7. 13	·1111	0. 54	·01194	13. 40	59 ·5	62 ·7
7. 26	35. 40	7. 34	·1114	2. 15	·01138	14. 40	59 ·3	62 ·5
8. 12	36. 20	8. 36	·1112	4. 21	·00966	15. 40	59 ·3	62 ·4
8. 46	31. 10	9. 20	·1108	6. 41	·00700	16. 40	59 ·5	62 ·4
	***	9. 49	·1114	8. 0	·00649	17. 40	59 ·2	61 ·8
10. 45	35. 30	10. 15	·1112	9. 58	·00636	18. 40	59 ·4	61 ·7
11. 3	40. 0	10. 48	·1118		·00816	19. 40	59 ·2	61 ·5
11. 45	32. 30	11. 7	·1111	11. 42	·00823	20. 40	59 ·0	61 ·2
12. 44	36. 30	11. 25	·1124	15. 35	·01020	21. 40	59 ·0	61 ·0
	***	11. 42	·1118	19. 11	·01294	22. 40	59 ·0	61 ·0
13. 57	35. 0	14. 0	·1111		·01248	23. 40	59 ·4	61 ·2
15. 45	34. 0	16. 36	·1116	22. 52	·01225			
17. 38	29. 10	17. 30	·1112		(†)			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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		Oct. 4						
h m	° ′ ″	h m		h m		h m	°	°
17. 57	21. 29. 50	18. 0	·1108					
18. 6	32. 10	18. 28	·1108					
18. 13	31. 0	18. 53	·1112					
18. 24	30. 50	20. 27	·1107					
18. 36	32. 0	20. 45	·1100					
18. 43	30. 30		***					
19. 11	29. 55	23. 59	·1084					
19. 36	31. 0							
19. 52	29. 30							
20. 30	30. 5							
20. 45	29. 10							
21. 39	32. 25							
22. 15	29. 10							
23. 10	32. 20							
	***							
23. 41	32. 20							
23. 59	33. 50							
Oct. 5		Oct. 5		Oct. 5		Oct. 5		
0. 0	21. 33. 50	0. 0	·1084		(†)	0. 40	60 ·6	62 ·0
	***	2. 4	·1102	0. 7	·01074	1. 40	62 ·0	63 ·5
0. 24	32. 0	2. 28	·1097	0. 45	·01016	2. 40	63 ·3	65 ·0
	***	2. 45	·1099	2. 15	·00782	3. 40	64 ·4	67 ·4
1. 45	32. 10	3. 7	·1094	4. 42	·00215	4. 40	64 ·5	67 ·1
1. 53	34. 30	3. 49	·1104		·00303	5. 40	63 ·9	66 ·5
2. 7	32. 10	4. 34	·1101	6. 0	·00240	6. 40	63 ·4	66 ·0
2. 44	33. 15	4. 39	·1108	6. 54	·00245	7. 40	62 ·5	65 ·4
2. 51	32. 20	5. 8	·1093	8. 0	·00269	8. 40	61 ·8	64 ·5
3. 0	34. 0	6. 15	·1104	9. 26	·00381	9. 40	60 ·7	63 ·5
3. 15	32. 0	7. 54	·1108	16. 21	·01089	10. 40	60 ·0	63 ·0
	***	8. 15	·1105	20. 38	·01076	11. 40	60 ·0	63 ·3
3. 45	33. 50	8. 44	·1104		·00982	21. 40	56 ·4	58 ·7
4. 0	32. 20	9. 16	·1110	22. 0	·01015			
	***	9. 43	·1107	23. 59	·00895			
4. 41	32. 25	10. 45	·1108					
4. 51	34. 30	11. 22	·1111					
	***	11. 32	·1108					
6. 0	29. 30	15. 56	·1120					
	***	16. 24	·1129					
7. 51	29. 10	17. 35	·1122					
7. 58	30. 30	18. 41	·1121					
8. 10	29. 25	19. 30	·1134					
8. 21	29. 0		***					
8. 43	29. 30	20. 0	·1122					
8. 59	26. 10		***					
10. 15	31. 30	20. 6	·1130					
	***	20. 33	·1124					
11. 44	33. 50	21. 44	·1120					
	***	22. 23	·1110					
14. 38	32. 50	22. 41	·1120					
	***	23. 12	·1112					
15. 5	34. 5	23. 59	·1115					
	***							
15. 41	32. 35							
16. 8	35. 10							
16. 54	32. 40							
	***							
18. 14	33. 0							
	***							

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

The sheet was changed between October 4^{d}. 0^{h}. 53^{m} and 0^{h}. 54^{m}, and the difference between the two readings of the Vertical Force Magnet arises from the difference of shrinking of the two sheets, or from some change in the apparatus produced by the disturbance.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 5								
h m	° ′ ″	h m		h m		h m	°	°
18. 57	21. 35. 10 ***							
19. 13	32. 10 ***							
19. 42	34. 0 ***							
19. 53	32. 0 ***							
20. 24	33. 30							
21. 12	33. 30							
21. 23	30. 5 ***							
22. 15	32. 0							
22. 28	34. 30							
22. 52	36. 50							
23. 14	33. 30 ***							
23. 22	37. 10 ***							
23. 27	34. 30							
23. 43	36. 20							
23. 52	34. 0 ***							
23. 59	34. 50							
Oct. 6		Oct. 6		Oct. 6		Oct. 6		
0. 0	21. 34. 50	0. 0	·1115	0. 0	·00890	1. 40	60 ·7	62 ·0
0. 15	36. 0	3. 50	·1119	1. 25	·00874	3. 40	63 ·0	65 ·2
1. 40	35. 12*	4. 25	·1115	2. 16	·00725	9. 40	62 ·5	64 ·4
1. 52	36. 50	4. 36	·1117	3. 39	{ ·00265	21. 56	57 ·0	59 ·3
2. 43	29. 0	5. 17	·1116		{ ·00297			
2. 57	28. 40	5. 36	·1121	7. 23	·00212			
3. 7	29. 30	5. 44	·1116	8. 45	·00200			
3. 16	27. 10	6. 47	·1120	10. 22	·00309			
3. 29	28. 30	7. 45	·1116	16. 43	·01094			
3. 44	33. 35	10. 9	·1118	22. 6	·01066			
4. 15	29. 30		***	23. 59	·01062			
4. 47	31. 45	14. 32	·1129					
6. 6	33. 10		***					
6. 57	37. 0	15. 30	·1136					
7. 17	36. 40		***					
8. 0	37. 45	16. 54	·1133					
8. 15	37. 0		***					
9. 29	38. 0	18. 21	·1135					
9. 53	36. 0		***					
10. 25	37. 30	18. 42	·1133					
10. 52	36. 50	19. 15	·1134					
11. 12	37. 35	20. 23	·1129					
11. 16	37. 10	21. 25	·1121					
11. 42	38. 0	21. 39	·1122					
11. 49	37. 5	23. 59	·1109					
12. 10	37. 50							
12. 15	37. 25							
12. 39	38. 0							
12. 45	37. 40							
13. 15	38. 30							
13. 37	37. 55							
13. 52	38. 10							
14. 0	37. 40							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 6								
h m	° ′ ″	h m		h m		h m	°	°
14. 14	21. 37. 45							
14. 23	37. 0							
15. 15	38. 45							
15. 28	38. 5							
15. 48	38. 30							
16. 4	37. 30							
16. 25	37. 45							
16. 41	37. 20							
17. 16	37. 55							
17. 40	37. 10							
18. 3	37. 45							
18. 15	37. 0							
19. 3	36. 50							
19. 28	37. 30							
19. 59	34. 40							
20. 14	35. 30							
20. 41	34. 50							
21. 0	35. 10							
21. 28	37. 50							
22. 5	36. 40							
22. 24	38. 40							
23. 17	41. 35							
23. 41	40. 5							
23. 48	42. 0							
23. 59	41. 30							
Oct. 7		Oct. 7		Oct. 7		Oct. 7		
0. 0	21. 41. 30	0. 0	·1108	0. 0	·01055	7. 0	61 ·0	62 ·7
0. 51	45. 10	0. 51	·1106	1. 30	·00983	21. 40	58 ·1	59 ·4
2. 10	46. 50	1. 30	·1121	2. 53	·00867			
2. 44	45. 55	1. 49	·1115	5. 15	·00737			
3. 52	47. 40	2. 12	·1120	6. 26	·00700			
5. 25	44. 45	2. 38	·1117	7. 18	·00702			
5. 43	46. 5	3. 15	·1123	9. 39	·00574			
6. 0	44. 20	3. 52	·1122	11. 15	·00515			
6. 13	46. 30	3. 56	·1126	12. 30	·00549			
6. 40	44. 30	4. 4	·1120	15. 24	·00694			
7. 14	30. 30	4. 10	·1123	23. 21	·01081			
7. 43	35. 50	4. 37	·1115	23. 59	·01070			
7. 55	34. 30	4. 49	·1119					
8. 20	37. 40	4. 55	·1115					
9. 17	37. 0	5. 37	·1121					
	***	5. 51	·1113					
11. 13	38. 50	6. 8	·1118					
13. 14	37. 50	6. 15	·1106					
14. 42	40. 30	6. 39	·1115					
16. 7	41. 20	7. 3	·1097					
16. 12	42. 40	7. 37	·1106					
16. 32	40. 5	7. 46	·1099					
16. 52	41. 30	8. 0	·1108					
17. 12	40. 10	8. 20	·1102					
17. 24	41. 0	9. 7	·1125					
17. 52	39. 0	9. 39	·1119					
18. 40	40. 0	9. 54	·1122					
19. 0	36. 50	10. 24	·1121					
19. 11	38. 50	10. 43	·1127					
19. 42	39. 50	10. 58	·1123					
20. 9	37. 50	11. 22	·1126					
20. 23	38. 30	11. 32	·1125					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 7 h m	° ′ ″	Oct. 7 h m		h m		h m	°	°
20. 59	21. 37. 0	11. 53	·1128					
21. 14	35. 30	14. 0	·1120					
21. 36	39. 30	18. 24	·1136					
21. 57	39. 30	19. 6	·1120					
22. 27	42. 50	19. 57	·1129					
22. 43	42. 15	20. 24	·1126					
23. 25	47. 10	20. 41	·1131					
23. 59	46. 50	22. 0	·1128					
		22. 21	·1122					
		23. 30	·1119					
			(†)					
Oct. 8		Oct. 8		Oct. 8		Oct. 8		
0. 0	21. 46. 50		(†)	0. 0	·01069	1. 46	59 ·0	60 ·0
0. 12	53. 55	0. 17	·1122	0. 19	·01061	3. 40	60 ·0	61 ·0
0. 23	49. 35	0. 54	·1124		·00998	9. 40	60 ·0	63 ·0
0. 37	55. 30	1. 24	·1131	1. 21	·01015	21. 40	54 ·0	58 ·0
0. 49	57. 50		***	3. 30	·00937			
0. 57	55. 30	1. 39	·1122	4. 39	·00836			
1. 7	56. 30		***	7. 9	·00455			
1. 14	50. 30	2. 48	·1122	8. 45	·00288			
1. 24	53. 50		***	11. 10	·00184			
1. 39	50. 0	2. 58	·1126	12. 51	·00951			
	***		***	14. 19	·00298			
2. 37	50. 10	3. 5	·1121	20. 24	·01057			
2. 44	54. 0	3. 37	·1129		·01021			
4. 22	50. 0	4. 15	·1126	23. 4	·01046			
5. 45	49. 30	5. 16	·1132		·00954			
5. 59	48. 30	5. 33	·1128	23. 59	·00960			
7. 12	45. 50	6. 7	·1129					
8. 7	46. 0	7. 8	·1124					
8. 21	44. 0	7. 30	·1128					
9. 3	42. 45	10. 36	·1125					
9. 23	43. 30	10. 45	·1136					
9. 45	48. 35	11. 0	·1128					
10. 15	49. 0	11. 27	·1125					
10. 27	46. 40	11. 42	·1130					
10. 45	48. 30	12. 0	·1126					
11. 29	49. 40	12. 19	·1135					
11. 53	48. 20	13. 8	·1125					
12. 10	51. 30	19. 0	·1139					
12. 40	49. 20	21. 10	·1130					
12. 56	49. 30	22. 30	·1117					
13. 11	51. 30	23. 59	·1113					
13. 36	49. 45							
14. 52	50. 45							
15. 26	49. 50							
16. 0	50. 30							
16. 12	53. 30							
19. 10	51. 50							
19. 21	50. 50							
19. 37	50. 55							
19. 45	49. 55							
20. 59	51. 15							
21. 21	50. 0							
22. 27	54. 30							
23. 13	54. 0							
	(†)							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 9 h m	° ′ ″	Oct. 9 h m		Oct. 9 h m		Oct. 9 h m	°	°
	(†)	0. 0	·1113	0. 15	·00957	1. 40	56 ·8	59 ·2
0. 13	21. 53. 30	0. 48	·1111	2. 5	·00914	3. 40	58 ·0	61 ·5
0. 44	54. 45	1. 15	·1104	3. 49	·00754	9. 40	60 ·5	62 ·0
	***	3. 0	·1116	4. 54	·00634	21. 40	56 ·4	58 ·6
1. 18	53. 20	3. 12	·1113	6. 45	·00332			
1. 30	51. 0	3. 39	·1116	8. 59	·00144			
2. 12	51. 10	4. 28	·1112		·00236			
2. 22	48. 30	5. 0	·1118	13. 50	·00158			
2. 51	49. 30	6. 14	·1113	16. 19	·00250			
3. 22	48. 0	7. 30	·1115	18. 49	·00415			
3. 37	50. 30	7. 51	·1118	22. 23	·00734			
4. 44	42. 40	11. 53	·1117	23. 59	·00798			
4. 56	45. 35	12. 18	·1128					
5. 21	39. 30	12. 36	·1122					
5. 47	38. 0	13. 7	·1126					
	***	13. 30	·1121					
9. 40	42. 30	14. 29	·1116					
9. 44	44. 0	18. 23	·1126					
12. 7	45. 30	21. 9	·1120					
12. 16	44. 30	22. 37	·1112					
12. 30	45. 5	23. 10	·1102					
12. 41	44. 10	23. 59	·1100					
12. 48	44. 40							
13. 21	43. 10							
14. 43	46. 40							
15. 7	46. 10							
15. 22	47. 5							
16. 54	46. 30							
18. 28	48. 50							
	***							
19. 12	45. 0							
19. 45	45. 0							
20. 17	42. 20							
20. 47	43. 30							
21. 17	42. 0							
21. 50	44. 10							
22. 47	38. 0							
	***							
23. 48	45. 0							
	(†)							
Oct. 10		Oct. 10		Oct. 10		Oct. 10		
	(†)	0. 0	·1100	0. 0	·00798	1. 40	59 ·5	61 ·2
0. 43	21. 44. 30	1. 42	·1104	0. 15	·00763	3. 40	61 ·7	64 ·4
1. 8	46. 30	2. 2	·1099	1. 43	·00521	9. 46	62 ·5	65 ·4
	***	2. 37	·1102	2. 4	·00489	22. 40	57 ·7	60 ·2
1. 27	45. 5	3. 0	·1096	3. 0	·00236			
1. 52	45. 30	4. 5	·1097		·00290			
2. 13	41. 15	4. 16	·1103	7. 26	·00316			
2. 44	42. 50		***	11. 5	·00277			
3. 15	35. 30	7. 13	·1101	14. 20	·00534			
	***	8. 7	·1108	18. 7	·00968			
4. 54	31. 50	8. 45	·1104	19. 49	·01100			
5. 14	28. 40	9. 13	·1102	23. 5	·01084			
5. 46	31. 0	9. 47	·1108	23. 59	·01082			
6. 26	28. 30	10. 25	·1106					
8. 0	31. 30	10. 49	·1113					
8. 54	34. 30	11. 14	·1110					

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. 10		Oct. 10						
h m	° ′ ″	h m		h m		h m	°	°
10. 13	21. 35. 0	13. 33	·1112					
	***		***					
10. 22	36. 30							
10. 40	35. 0	14. 30	·1118					
	***		***					
11. 56	38. 20							
12. 28	37. 50	14. 54	·1117					
	***		***					
12. 53	38. 30							
13. 15	39. 30	19. 0	·1126					
	***		***					
17. 55	43. 50	23. 59	·1110					
	***							
20. 0	42. 50							
20. 37	43. 30							
21. 13	45. 0							
21. 21	43. 30							
23. 15	43. 0							
23. 59	44. 0							
Oct. 11		Oct. 11		Oct. 11		Oct. 11		
0. 0	21. 44. 0	0. 0	·1110	0. 0	·01082	7. 10	60 ·0	62 ·4
	***	1. 6	·1110	3. 21	·01058	12. 40	61 ·0	63 ·5
1. 52	47. 30	1. 32	·1114	7. 35	·00828	13. 40	61 ·0	63 ·4
	***	2. 10	·1115	12. 10	·00564	14. 40	61 ·5	63 ·4
3. 41	46. 50	2. 22	·1118	18. 36	·00423	15. 40	61 ·9	63 ·5
5. 24	44. 20	2. 45	·1116	20. 48	{ ·00303	16. 40	62 ·2	63 ·5
9. 12	41. 40	3. 39	·1120		{ ·00337	17. 40	62 ·5	64 ·0
11. 30	43. 30	4. 7	·1117	23. 20	·00297	18. 40	62 ·8	64 ·7
12. 35	41. 20	4. 57	·1118		(†)	19. 40	62 ·5	64 ·5
13. 47	40. 30	5. 9	·1121			20. 40	63 ·0	65 ·0
14. 3	41. 50	5. 31	·1117			21. 40	63 ·5	65 ·0
15. 7	40. 50	5. 52:	·1120			22. 40	64 ·0	65 ·6
16. 14	41. 30	12. 0	·1119			23. 40	64 ·6	65 ·7
16. 30	42. 40	12. 24	·1124					
17. 42	41. 5	12. 40	·1119					
18. 17	41. 10	14. 15	·1116					
18. 48	43. 25	17. 7	·1120					
19. 53	41. 40	17. 39	·1116					
20. 39	42. 45	18. 26	·1118					
20. 48	41. 50	18. 44	·1116					
20. 59	42. 45	19. 10	·1120					
21. 12	41. 45	19. 24	·1117					
23. 13	43. 20	20. 12	·1114					
23. 59	45. 45	20. 39	·1119					
		21. 0	·1116					
		21. 7	·1118					
		21. 16	·1114					
		23. 59	·1092					
Oct. 12		Oct. 12		Oct. 12		Oct. 12		
0. 0	21. 45. 45	0. 23	·1096		(†)	0. 40	65 ·7	67 ·0
1. 30	45. 30	1. 22	·1096	0. 18	·00310	1. 40	66 ·3	67 ·4
2. 0	42. 20	1. 36	·1099	1. 23	·00385	2. 40	67 ·0	68 ·2
2. 45	44. 25	2. 15	·1097	6. 21	{ ·00454	3. 40	68 ·0	69 ·3
3. 2	42. 0	2. 34	·1100		{ ·00540	4. 40	68 ·5	69 ·7
3. 37	41. 40	3. 51	·1103	7. 54	·00468	5. 40	68 ·8	69 ·7
3. 44	42. 30	5. 0	·1096	10. 39	·00473	6. 40	69 ·0	70 ·2
4. 11	39. 30	5. 25	·1097	13. 20	·00638	7. 40	69 ·3	70 ·2
5. 12	39. 30	6. 11	·1094	17. 0	·00957	8. 40	69 ·2	70 ·2
	***	6. 30	·1096	21. 14	·01241	9. 40	68 ·7	69 ·5
6. 36	36. 50	7. 16	·1095	23. 59	·01230	10. 40	68 ·0	69 ·2
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 12		Oct. 12				Oct. 12		
h m	° ′ ″	h m		h m		h m	°	°
7. 40	21. 37. 20	8. 23	·1104			11. 40	67 ·6	68 ·6
8. 15	34. 30	12. 39	·1108			21. 40	63 ·0	65 ·3
8. 41	35. 45	13. 30	·1111					
9. 0	38. 40	15. 55	·1113					
10. 13	40. 10	16. 3	·1110					
10. 28	38. 40	17. 28	·1116					
11. 39	39. 50	17. 41	·1122					
11. 54	38. 40	21. 0	·1117					
16. 20	42. 30	22. 44	·1103					
17. 36	41. 25	23. 59	·1107					
	***							
20. 57	41. 35							
21. 28	35. 10							
22. 13	36. 0							
22. 27	35. 0							
23. 41	38. 0							
	(†)							
Oct. 13		Oct. 13		Oct. 13		Oct. 13		
	(†)	0. 0	·1107	0. 0	·01222	1. 40	65 ·5	67 ·5
0. 37	21. 37. 30	0. 52:	·1098	1. 0	·01143	3. 40	66 ·0	68 ·7
0. 47	38. 10	4. 51	·1097	1. 51	·01079	9. 40	65 ·0	67 ·8
1. 10	36. 15	7. 34	·1104	4. 54	·00604	21. 40	57 ·0	59 ·5
1. 19	36. 0	12. 30	·1111	6. 0	·00496			
1. 27	39. 30	12. 39	·1115	8. 0	·00400			
1. 42	38. 40	13. 30	·1114	8. 24	·00573			
2. 43	39. 10	19. 2	·1121	15. 36	{ ·01214			
4. 51	35. 45	20. 37	·1127		{ ·01274			
6. 0	36. 30	21. 53	·1120	19. 39	·01115			
9. 0	34. 40		(†)	23. 59	·01110			
15. 58	38. 30							
19. 3	38. 35							
19. 39	39. 30							
	***							
21. 36	37. 30							
	***							
21. 58	38. 35							
	***							
22. 25	36. 25							
	***							
23. 59	39. 0							
Oct. 14		Oct. 14		Oct. 14		Oct. 14		
0. 0	21. 39. 0		(†)	0. 0	·01110	1. 40	60 ·7	62 ·2
1. 26	38. 50	1. 40	·1133*	0. 39	·01083	3. 40	63 ·7	65 ·8
1. 58	39. 30		(†)	2. 50	·00784	9. 40	65 ·0	66 ·6
2. 21	34. 30	2. 24	·1109	4. 22	{ ·00349	21. 40	59 ·6	62 ·0
2. 40	32. 20	5. 0	·1108		{ ·00411			
3. 27	29. 10	7. 41	·1108	7. 30	·00348			
3. 36	30. 50	8. 7	·1112	8. 53	·00303			
3. 45	30. 0	8. 47	·1109	10. 50	·00320			
3. 55	34. 30	9. 8	·1112	13. 45	·00654			
4. 21	31. 0	9. 45	·1111	18. 10	·00875			
4. 41	31. 50	10. 3	·1115	22. 19	·01141			
9. 5	30. 30	10. 13	·1113	23. 59	·01156			
9. 56	32. 40	13. 34	·1117					
11. 43	33. 40	13. 48	·1121					
14. 0	37. 10	20. 37	·1129					
	***	21. 30	·1128					

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. 14		Oct. 14						
h m	° ′ ″	h m		h m		h m	°	°
19. 22	21. 37. 55	22. 0	·1124					
19. 37	37. 10	22. 44	·1124					
21. 21	36. 30	23. 59	·1115					
	***							
23. 30	38. 30							
23. 59	38. 20							
Oct. 15		Oct. 15		Oct. 15		Oct. 15		
0. 0	21. 38. 20	0. 0	·1115	0. 0	·01156	1. 40	61 ·0	63 ·3
0. 23	41. 20	0. 17	·1114	1. 0	·01128	3. 40	62 ·0	64 ·4
1. 21	39. 40	0. 37	·1122	1. 20	·01119	9. 40	64 ·2	66 ·2
1. 47	39. 15	2. 25	·1109	3. 23	·00992	21. 46	61 ·2	63 ·3
2. 45	41. 30	3. 11	·1107	6. 45	·00681			
3. 4	37. 10	4. 44	·1105	10. 37	·00369			
3. 24	36. 30	5. 23	·1107	12. 5	·00314			
3. 39	36. 50	5. 48	·1105	14. 0	·00278			
3. 54	34. 50	6. 52	·1105	15. 24	·00419			
5. 15	33. 0	7. 4	·1097	21. 45	·00600			
6. 21	33. 0	7. 30	·1095	23. 59	·00653			
6. 43	34. 10	7. 36	·1098					
6. 53	32. 20	8. 12	·1097					
7. 21	30. 50	8. 33	·1103					
7. 30	32. 45	8. 45	·1100					
7. 46	29. 0	9. 8	·1105					
7. 59	32. 20	9. 22	·1101					
8. 30	29. 15	9. 45	·1105					
8. 45	27. 20	9. 53	·1103					
	***	10. 9	·1107					
9. 11	28. 30	11. 45	·1112					
9. 27	28. 50	12. 19	·1110					
9. 43	33. 40	12. 37	·1112					
10. 6	32. 20	12. 47	·1110					
12. 45	34. 55	14. 2	·1118					
13. 6	36. 45	14. 30	·1115					
	***		***					
13. 35	35. 40	19. 18	·1118					
15. 30	38. 35	20. 8	·1115					
15. 45	38. 0	21. 41	·1117					
	***	22. 30	·1110					
19. 29	37. 20	23. 59	·1104					
	***							
20. 13	38. 20							
	***							
20. 48	37. 0							
23. 59	37. 50							
Oct. 16		Oct. 16		Oct. 16		Oct. 16		
0. 0	21. 38. 0	0. 0	·1104	0. 0	·00648	1. 40	62 ·2	64 ·6
0. 16	40. 10	0. 9	·1102	0. 27	·00658	3. 40	64 ·0	66 ·3
0. 56	41. 10	0. 56	·1109	1. 53	·00654	9. 40	65 ·5	67 ·0
1. 11	40. 30	1. 17	·1104	4. 5	{·00344	21. 40	60 ·0	62 ·5
	***	1. 42	·1107		{·00422			
1. 44	42. 30	2. 0	·1108	4. 53	·00406			
2. 0	41. 0	3. 3	·1110	5. 54	·00439			
2. 30	41. 50	4. 37	·1105	9. 16	·00353			
2. 40	40. 25	7. 8	·1109	11. 18	·00421			
2. 56	41. 10	7. 29	·1113	14. 8	·00675			
3. 24	40. 10	7. 47	·1109	18. 0	·01133			
5. 2	35. 30	10. 45	·1110	18. 39	·01182			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 16		Oct. 16		Oct. 16				
h m	° ′ ″	h m		h m		h m	°	°
6. 13	21. 35. 30	11. 13	·1116	19. 48	·01162			
9. 21	34. 50	11. 44	·1115	20. 15	{·01185			
	***	16. 24	·1128		{·00743			
11. 39	37. 30		***	21. 16	{·00805			
15. 10	40. 15	19. 37	·1128		{·00691			
16. 52	39. 0		***	22. 35	·00765			
17. 15	39. 30	23. 50	·1108	23. 54	·00732			
17. 44	38. 25		(†)		(†)			
20. 15	37. 40							
20. 35	38. 20							
21. 3	36. 50							
21. 27	37. 45							
21. 45	35. 0							
22. 33	35. 30							
22. 56	37. 30							
	(†)							
Oct. 17		Oct. 17		Oct. 17		Oct. 17		
	(†)		(†)		(†)	1. 40	63 ·4	65 ·2
0. 10	21. 36. 20	0. 9	·1106	0. 14	·00679	3. 40	65 ·5	67 ·0
0. 32	37. 15	0. 59	·1111	1. 42	{·00542	9. 40	66 ·0	67 ·0
0. 40	36. 0	1. 4	·1105		{·00594	23. 0	61 ·0	63 ·0
	***	1. 45	·1108	3. 22	·00312			
0. 59	36. 50	2. 19	·1110	4. 26	{·00381			
1. 11	35. 10	2. 25	·1117		{·00461			
1. 22	35. 30	2. 34	·1104	4. 56	·00394			
1. 36	34. 30	3. 11	·1101	6. 0	·00367			
2. 27	34. 55	3. 21	·1090	7. 27	·00394			
2. 36	36. 40	3. 27	·1094	9. 2	·00349			
2. 45	33. 30	3. 38	·1088	9. 16	·00319			
	***	3. 55	·1099	13. 21	·00415			
4. 17	37. 20	4. 7	·1100	15. 45	·00644			
	***	4. 19	·1105	16. 30	·00669			
4. 43	39. 30	4. 39	·1100	19. 4	·00914			
	***	4. 45	·1103	23. 19	·01103			
5. 0	36. 0	4. 55	·1092	23. 59	·01078			
	***	5. 13	·1098					
5. 24	35. 15	5. 32	·1092					
	***	5. 40	·1100					
5. 39	37. 30	6. 0	·1097					
	***	6. 9	·1108					
5. 46	37. 0	6. 44	·1092					
	***	6. 57	·1096					
5. 57	38. 20	7. 6	·1087					
6. 15	35. 0	7. 24	·1092					
	***	7. 40	·1111					
6. 39	39. 0	7. 51	·1101					
	***	8. 12	·1091					
6. 59	37. 0	8. 43	·1095					
7. 10	38. 35	8. 54	·1127					
7. 45	29. 30	9. 9	·1105					
	***	10. 6	·1100					
8. 26	35. 0	10. 32	·1111					
9. 5	23. 30	10. 38	·1104					
9. 13	24. 20	10. 50	·1106					
9. 35	22. 50	11. 8	·1104					
10. 6	29. 30	11. 23	·1099					
10. 13	29. 10	11. 30	·1105					
10. 24	31. 0	12. 9	·1111					

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. 17		Oct. 17						
h m	° ′ ″	h m		h m		h m	°	°
11. 11	21. 25. 45	12. 39	·1108					
12. 14	34. 30	13. 36	·1111					
12. 39	34. 40	13. 47	·1109					
12. 44	36. 0	14. 48	·1117					
13. 0	35. 0	15. 7	·1116					
13. 20	38. 20	15. 30	·1117					
13. 41	36. 20	15. 39	·1115					
14. 4	35. 30	17. 0	·1124					
14. 30	40. 40	17. 54	·1112					
14. 58	38. 10	18. 54	·1123					
15. 40	37. 0	19. 8	·1117					
16. 16	42. 40	19. 39	·1122					
17. 10	38. 20	20. 15	·1115					
	***	20. 50	·1114					
20. 24	37. 50	21. 24	·1106					
	***	22. 3	·1105					
20. 53	39. 10	23. 0	·1108					
	***	23. 40	·1106					
21. 12	38. 30		(†)					
	***							
21. 37	40. 0							
	***							
22. 15	39. 40							
	***							
22. 56	41. 45							
23. 43	42. 25							
	(†)							
Oct. 18		Oct. 18		Oct. 18		Oct. 18		
9. 0	21. 30. 45*	9. 0	·1119*	0. 0	·01066	9. 0	61 ·0	63 ·2
21. 40	32. 22*	21. 40	·1102*	1. 19	·01020	12. 40	60 ·4	62 ·0
				2. 51	·01129	13. 40	60 ·2	61 ·8
				3. 14	·01180	14. 40	60 ·1	61 ·7
				6. 23	·01114	15. 40	60 ·2	61 ·9
				7. 0	·01123	16. 40	60 ·8	62 ·3
				10. 15	·01094	17. 40	61 ·3	62 ·3
				13. 10	·01017	18. 40	61 ·6	62 ·5
				15. 34	·01096	19. 40	62 ·0	63 ·2
				19. 0	·01037	20. 40	62 ·4	63 ·3
				23. 59	·00777	21. 40	62 ·4	63 ·0
						22. 40	62 ·6	63 ·7
						23. 40	62 ·9	64 ·1
Oct. 19		Oct. 19		Oct. 19		Oct. 19		
	(†)		(†)	0. 0	·00775	0. 40	60 ·5	62 ·5
0. 53	21. 41. 30	1. 6	·1097	0. 51	·00712	1. 40	63 ·2	64 ·8
1. 18	42. 40	1. 48	·1097	2. 33	·00540	2. 40	64 ·0	65 ·0
2. 0	38. 50	2. 24	·1092		·00634	3. 40	64 ·7	66 ·2
2. 15	38. 45		***	4. 30	·00415	4. 40	65 ·5	67 ·0
2. 40	35. 10	4. 0	·1101	9. 37	·00259	5. 40	66 ·4	67 ·0
2. 59	36. 50	4. 15	·1091	11. 45	·00338	6. 40	66 ·5	67 ·3
3. 13	34. 30	4. 23	·1092	14. 55	·00540	7. 40	66 ·5	67 ·4
	***	4. 36	·1085	18. 0	·00816	8. 40	66 ·0	67 ·3
3. 41	37. 50	5. 0	·1086	19. 54	·01002	9. 40	65 ·0	66 ·5
	***	5. 27	·1093	20. 52	·01070	10. 40	67 ·0	67 ·4
4. 0	34. 15	5. 55	·1094	21. 40	·01039	11. 40	67 ·0	67 ·6
4. 44	31. 30	6. 9	·1098	23. 59	·01098	21. 40	59 ·0	61 ·2
4. 54	33. 0	8. 15	·1099					
5. 8	31. 30	8. 38	·1093					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 19		Oct. 19						
h m	° ′ ″	h m		h m		h m	°	
5. 35	21. 29. 30	9. 39	·1093					
6. 0	31. 30	10. 16	·1097					
6. 33	29. 10	10. 24	·1102					
6. 49	29. 50	10. 35	·1101					
7. 14	29. 0	11. 23	·1108					
	***	11. 44	·1104					
8. 10	28. 50	12. 8	·1103					
8. 32	25. 10	12. 32	·1109					
8. 56	26. 10	13. 10	·1106					
9. 41	25. 15	13. 38	·1109					
10. 11	26. 50	14. 26	·1108					
10. 22	29. 30	16. 53	·1117					
11. 0	29. 0	17. 21	·1116					
11. 10	29. 50	17. 54	·1122					
11. 27	29. 0	18. 53	·1119					
11. 43	29. 55	19. 23	·1120					
	***	19. 45	·1118					
16. 27	36. 20	20. 29	·1113					
17. 4	37. 40	20. 53	·1114					
17. 28	36. 30	21. 39	·1106					
	***	22. 0	·1108					
18. 57	35. 10	22. 34	·1102					
	***	23. 7	·1106					
19. 32	36. 0	23. 13	·1103					
	***	23. 59	·1104					
20. 12	35. 0							
	***							
21. 24	39. 50							
22. 14	39. 0							
22. 40	40. 30							
22. 58	39. 30							
23. 12	40. 30							
	***							
23. 16	40. 0							
	***							
23. 48	42. 0							
	(†)							
Oct. 20		Oct. 20		Oct. 20		Oct. 20		
	(†)	0. 0	·1104	0. 0	·01098	1. 40	60 ·8	62 ·6
0. 56	21. 41. 0	1. 37	·1106	1. 7	·01079	3. 40	62 ·3	65 ·2
1. 13	42. 30	2. 15	·1097	2. 45	·00996	9. 40	62 ·6	65 ·3
1. 30	41. 50	2. 43	·1102	5. 24	·00500	21. 40	60 ·2	63 ·0
1. 53	39. 50	3. 0	·1101	6. 52	·00288			
2. 24	39. 50	4. 14	·1107		·00323			
	***	5. 0	·1100	9. 12	·00305			
2. 53	38. 20	5. 28	·1108	10. 25	·00280			
3. 13	38. 50	5. 49	·1104	14. 21	·00304			
	***	6. 17	·1108	20. 54	·00591			
4. 10	37. 20	9. 0	·1111	21. 43	·00598			
4. 13	38. 50	9. 16	·1111	23. 59	·00760			
4. 42	34. 50	9. 42	·1118					
	***	10. 0	·1115					
5. 45	34. 0	10. 9	·1121					
6. 0	35. 0	10. 48	·1114					
	***	12. 50	·1113					
7. 30	35. 5	12. 54	·1116					
8. 25	36. 0	13. 7	·1114					
9. 25	32. 50	20. 0	·1120					

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.

October 18. The Photographic Traces of the Declination and Horizontal Force were too faint to be used with any degree of certainty.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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. 20		Oct. 20						
h m	° ′ ″	h m		h m		h m	°	°
9. 51	21. 36. 30	22. 0	·1111					
10. 13	35. 50	23. 4	·1105					
12. 30	38. 15	23. 59	·1104					
12. 40	39. 50							
12. 54	38. 40							
	***							
15. 30	38. 35							
	***							
17. 52	38. 50							
20. 35	36. 45							
21. 42	37. 30							
23. 1	42. 50							
	***							
23. 32	42. 20							
23. 59	43. 0							
Oct. 21		Oct. 21		Oct. 21		Oct. 21		
0. 0	21. 43. 0	0. 0	·1104	0. 0	·00758	1. 40	61 ·0	63 ·1
0. 13	44. 20		***	1. 0	·00820	3. 40	61 ·0	63 ·6
1. 39	42. 30	2. 39	·1108	2. 30	·00800	9. 45	63 ·1	64 ·4
1. 52	42. 40	3. 38	·1094	4. 7	·00784	21. 40	56 ·7	58 ·6
2. 14	46. 15	3. 52	·1099	8. 30	·00556			
2. 30	44. 30	4. 0	·1096	10. 55	·00529			
3. 55	39. 40	4. 30	·1105	12. 5	·00551			
4. 22	37. 20	4. 52	·1105	19. 0	·01064			
4. 51	39. 0	5. 30	·1111	19. 39	·01049			
	***	9. 9	·1111	23. 59	·01019			
6. 20	37. 30	9. 24	·1109					
8. 8	37. 50	9. 43	·1113					
8. 21	35. 30	9. 48	·1108					
8. 45	33. 50	10. 22	·1111					
9. 0	34. 45	10. 26	·1109					
9. 13	33. 55	11. 19	·1114					
11. 14	36. 20	11. 33	·1113					
11. 38	37. 45	11. 51	·1114					
12. 12	39. 20	12. 6	·1121					
13. 29	38. 45	16. 10	·1124					
13. 51	39. 30	16. 31	·1122					
16. 10	39. 0	17. 8	·1126					
16. 31	40. 40	18. 45	·1126					
20. 27	36. 30	22. 3	·1112					
22. 45	42. 10	23. 23	·1117					
23. 22	44. 10	23. 30	·1114					
23. 41	43. 30	23. 34	·1116					
23. 59	44. 30	23. 49	·1109					
		23. 59	·1116					
Oct. 22		Oct. 22		Oct. 22		Oct. 22		
0. 0	21. 44. 0	0. 0	·1116	0. 0	·01019	1. 40	55 ·6	57 ·3
1. 5	44. 0	1. 41	·1118	1. 23	·00996	3. 40	56 ·3	58 ·0
1. 37	44. 30	1. 53	·1109	5. 0	·01054	9. 40	56 ·2	58 ·2
1. 52	42. 50	3. 47	·1114	7. 11	·01057	21. 45	55 ·0	57 ·0
2. 12	42. 55	4. 4	·1112	10. 0	·01055			
3. 13	40. 50	7. 28	·1125	13. 45	·00994			
3. 42	40. 30	8. 15	·1121	16. 22	{·01043 ·00995			
4. 51	39. 5	8. 40	·1126					
7. 22	39. 30	9. 4	·1123	21. 50	·01021			
8. 15	38. 10	9. 34	·1124	23. 59	·01010			
8. 29	38. 30	9. 51	·1130					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 22		Oct. 22						
h m	° ′ ″	h m		h m		h m	°	°
8. 55	21. 36. 50	10. 54	·1126					
10. 0	38. 50	11. 19	·1129					
10. 24	37. 30	12. 30	·1127					
13. 4	38. 50	16. 18	·1132					
13. 31	40. 40	17. 49	·1136					
20. 28	38. 30	18. 37	·1135					
20. 43	39. 30	19. 45	·1129					
21. 18	38. 30	20. 29	·1122					
	***	20. 39	·1121					
22. 36	40. 0	22. 54	·1111					
23. 15	38. 55	23. 27	·1113					
23. 41	43. 30	23. 59	·1112					
23. 59	45. 30							
Oct. 23		Oct. 23		Oct. 23		Oct. 23		
0. 0	21. 45. 30	0. 0	·1112	0. 0	·01010	1. 40	56 ·3	57 ·7
	***	0. 39	·1109	1. 15	·00997	3. 40	58 ·5	59 ·5
0. 27	43. 30	0. 50	·1115	2. 52	·00936	9. 40	60 ·2	61 ·3
1. 37	45. 30	1. 37	·1119	4. 5	·00774	21. 40	57 ·0	58 ·5
2. 44	38. 50	2. 44	·1099	7. 54	{·00145 ·00183			
3. 14	39. 50	3. 21	·1108					
4. 40	31. 20	4. 30	·1102	11. 37	·00143			
5. 44	33. 5	6. 14	·1113	15. 19	·00253			
8. 10	34. 40	6. 49	·1112	16. 51	·00296			
9. 44	34. 30	7. 11	·1116	18. 35	·00420			
10. 10	35. 30	7. 57	·1118	20. 23	·00503			
10. 59	33. 45	8. 9	·1114	23. 59	·00500			
11. 12	34. 55		***					
11. 27	34. 0	8. 30	·1119					
11. 42	34. 55		***					
12. 12	29. 30	10. 3	·1114					
12. 46	32. 30	10. 8	·1110					
13. 15	32. 15	10. 20	·1113					
14. 12	35. 50	10. 23	·1107					
14. 43	34. 0	10. 37	·1109					
15. 16	37. 30	11. 8	·1106					
15. 31	37. 30	11. 16	·1122					
15. 45	40. 0	11. 35	·1105					
15. 54	39. 30	11. 44	·1105					
16. 11	42. 30	12. 3	·1116					
16. 30	36. 5	12. 24	·1112					
17. 14	32. 30	13. 6	·1114					
17. 59	37. 50	13. 21	·1109					
	***	14. 22	·1115					
19. 12	37. 20	14. 48	·1112					
19. 42	39. 50	15. 9	·1117					
	***	15. 27	·1118					
20. 26	37. 30	15. 39	·1112					
20. 35	38. 40	15. 52	·1116					
	***	16. 0	·1113					
20. 59	38. 25	16. 17	·1118					
21. 8	40. 0	16. 27	·1128					
	***	16. 40	·1121					
21. 43	38. 20	16. 54	·1127					
22. 30	33. 30	18. 11	·1117					
23. 0	37. 30	18. 37	·1126					
23. 14	35. 50	19. 12	·1119					
23. 38	36. 10	19. 40	·1117					
23. 59	37. 50	19. 47	·1122					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Oct. 23 h m		h m		h m	°	°
		20. 8	·1120					
		21. 36	·1128					
		22. 45	·1109					
		23. 1	·1116					
		23. 9	·1109					
		23. 59	·1110					
Oct. 24		Oct. 24		Oct. 24		Oct. 24		
0. 0	21. 37. 50	0. 0	·1110	0. 0	·00496	1. 40	60 ·0	61 ·0
1. 0	38. 0	1. 6	·1116	0. 58	·00456	3. 40	62 ·0	63 ·4
1. 25	37. 10	2. 19	·1097	2. 5	·00323	9. 40	64 ·0	64 ·5
1. 37	35. 30	2. 29	·1101	2. 37	{ ·00224	23. 1	60 ·0	61 ·3
1. 42	37. 45	2. 35	·1097 ***		{ ·00276			
2. 19	35. 0			4. 20	·00335			
2. 28	36. 0	6. 32	·1114	5. 8	·00310			
2. 43	33. 30 ***	7. 0	·1100	10. 52	·00302			
		7. 36	·1112	11. 22	·00232			
3. 52	34. 30	8. 10	·1107	12. 19	·00219			
4. 22	33. 10 ***	8. 19	·1112	13. 23	·00221			
		9. 5	·1099	17. 49	·00530			
6. 43	34. 50	9. 23	·1105	21. 19	·00674			
7. 13	29. 0	10. 0	·1094	23. 20	·00685			
8. 5	34. 5	10. 42	·1104	23. 59	·00680			
8. 27	32. 45	10. 57	·1122					
8. 58	32. 50	11. 25	·1099					
9. 21	29. 50	11. 52	·1124					
9. 31	30. 5	12. 16	·1116					
10. 3	28. 50	12. 58	·1137					
10. 39	35. 30	13. 28	·1118					
10. 53	33. 55	13. 49	·1123					
11. 12	39. 30	14. 48	·1107					
11. 39	34. 0	15. 12	·1115					
11. 57	35. 55	15. 32	·1109					
12. 15	34. 50	16. 0	·1113					
12. 28	36. 50	16. 21	·1109					
12. 40	36. 20	17. 15	·1118					
12. 58	37. 30	17. 34	·1124					
13. 18	35. 0	18. 7	·1128					
14. 7	33. 30	18. 10	·1122					
14. 44	39. 30	18. 26	·1129					
15. 24	37. 5	18. 54	·1129					
16. 0	38. 20	19. 13	·1120					
16. 26	40. 30	20. 11	·1119					
16. 51	41. 15	20. 46	·1124 ***					
17. 18	38. 30 ***	22. 55	·1121 ***					
17. 58	38. 30							
18. 14	37. 0 ***	23. 7	·1117					
		23. 59	·1110					
19. 42	39. 10 ***							
21. 43	38. 40 ***							
22. 30	40. 0							
23. 7	38. 30							
23. 42	31. 20							
23. 52	37. 0							
23. 59	35. 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. 25 h m	° ′ ″	Oct. 25 h m		Oct. 25 h m		Oct. 25 h m	°	°
0. 0	21. 34. 30	0. 0	·1110	0. 0	·00680	7. 13	62 ·7	64 ·0
0. 15	30. 40	0. 17	·1103	1. 37	·00673	12. 40	60 ·3	62 ·2
0. 30	36. 30	0. 32	·1110	7. 27	{ ·00234	13. 40	60 ·2	61 ·8
0. 51	33. 50	0. 51	·1103		{ ·00276	14. 40	60 ·2	61 ·5
1. 3	37. 15	1. 5	·1107	9. 54	·00248	15. 40	60 ·0	61 ·5
1. 24	35. 30	1. 17	·1101	12. 9	·00342	16. 40	60 ·2	61 ·5
3. 0	37. 10	2. 40	·1108	15. 35	·00583	17. 40	60 ·2	61 ·4
5. 24	36. 50	11. 0	·1120	17. 20	·00658	18. 40	60 ·1	61 ·2
6. 43	33. 0	11. 9	·1124	20. 30	·00764	19. 40	60 ·2	61 ·2
11. 0	32. 30	11. 47	·1125	23. 26	·00732	20. 40	60 ·0	61 ·2
11. 24	28. 5	12. 8	·1114	23. 59	·00720	21. 40	59 ·7	60 ·5
11. 33	29. 30	13. 37	·1109			22. 40	59 ·5	60 ·4
11. 58	29. 30	17. 7	·1113			23. 40	60 ·0	61 ·2
12. 31	31. 30	17. 49	·1108					
13. 0	30. 0	18. 15	·1113					
13. 37	31. 35	18. 39	·1105					
14. 5	30. 45	19. 32	·1104					
14. 27	31. 40 ***	20. 4	·1113 ***					
19. 36	31. 36 ***	22. 29	·1110 ***					
20. 7	32. 50 ***	22. 44	·1100					
		23. 2	·1103					
20. 59	31. 0 ***		(†)					
22. 54	37. 0							
23. 59	35. 0							
Oct. 26		Oct. 26		Oct. 26		Oct. 26		
0. 0	21. 35. 0	0. 0	·1093	0. 0	·00719	0. 40	61 ·0	61 ·9
	***	0. 43	·1097	0. 53	·00654	1. 40	62 ·0	63 ·2
2. 10	36. 0	1. 0	·1095	1. 40	·00556	2. 40	63 ·0	64 ·3
	***	1. 23	·1096	2. 50	·00300	3. 40	64 ·2	65 ·2
5. 59	31. 20	1. 29	·1091	3. 36	·00277	4. 40	65 ·0	66 ·0
	***	2. 14	·1094	5. 19	{ ·00364	5. 40	65 ·6	66 ·5
8. 40	31. 50	3. 40	·1093		{ ·00640	6. 40	65 ·5	66 ·7
9. 27	29. 15	5. 39	·1093	6. 0	·00597	7. 40	66 ·0	67 ·0
10. 15	31. 30	6. 3	·1097	10. 0	·00734	8. 40	65 ·9	66 ·6
10. 51	27. 50	7. 0	·1095	12. 37	·00805	9. 40	65 ·8	66 ·6
11. 13	29. 35	8. 34	·1098	14. 10	·00881	10. 40	65 ·6	67 ·0
11. 45	29. 30 ***	9. 22	·1094	17. 51	·01153	11. 40	65 ·0	67 ·0
		9. 43	·1099	18. 30	·01141	21. 40	59 ·8	61 ·4
13. 12	32. 30	9. 58	·1098	21. 46	{ ·01140			
19. 13	32. 55	10. 9	·1104		{ ·00996			
21. 30	31. 15	10. 23	·1099	23. 37	·01034			
23. 59	33. 20	11. 36	·1096	23. 59	·01020			
		19. 0	·1118					
		20. 39	·1118					
		21. 48	·1111					
		22. 23	·1104					
		23. 59	·1096					
Oct. 27		Oct. 27		Oct. 27		Oct. 27		
0. 0	21. 33. 20	0. 0	·1096	0. 0	·01020	1. 40	61 ·0	63 ·0
1. 45:	36. 10	1. 35	·1093	1. 21	·01009	3. 40	62 ·0	64 ·4
4. 40:	32. 25	1. 55	·1097	2. 39	·00935	9. 40	62 ·0	64 ·3
21. 0	32. 30	2. 13	·1094	4. 30	·00670	21. 45	57 ·2	60 ·0
23. 29	37. 20	2. 40	·1103	5. 54	·00505			
	(†)	3. 0	·1098	8. 0	·00358			

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	° ′ ″	Oct. 27 h m		Oct. 27 h m		h m	°	°
		8. 51	·1111	9. 25	·00320			
		19. 0	·1117	14. 10	·00414			
		19. 5	·1135	16. 55	·00585			
		19. 27	·1141	18. 0	·00658			
		21. 26	·1138	19. 53	·00798			
		22. 30	·1126	21. 10	·00898			
		23. 18	·1122 (†)	23. 59	·01056			
Oct. 28		Oct. 28		Oct. 28		Oct. 28		
0. 0	21. 35. 50	0. 0	·1118	0. 0	·01060	1. 40	59 ·7	61 ·7
0. 58	37. 20	0. 24	·1120	0. 15	·01069	3. 40	62 ·0	63 ·8
	***		***	1. 49	·01037	9. 40	59 ·2	62 ·2
3. 51	33. 20	1. 24	·1138	2. 56	·00935	21. 40	53 ·5	57 ·3
	***	2. 38	·1116	5. 6	·00521			
6. 54	32. 55	3. 15	·1120	6. 15	·00409			
7. 14	31. 30	3. 30	·1115	7. 37	·00341			
7. 40	33. 20	5. 39	·1126	8. 30	·00340			
19. 0	33. 30	5. 54	·1122	16. 57	·01022			
19. 18	33. 0	6. 39	·1128		·01000			
19. 48	33. 50	7. 3	·1126	23. 59	·01001			
20. 21	32. 10	9. 52	·1139					
20. 45	31. 10	14. 0	·1143					
21. 43	32. 30	17. 30	·1152					
22. 26	33. 50	19. 32	·1151					
22. 50	36. 30	21. 23	·1155					
23. 59	38. 20	22. 0	·1146					
		23. 59	·1128					
Oct. 29		Oct. 29		Oct. 29		Oct. 29		
0. 0	21. 38. 20	0. 0	·1128	0. 0	·01000	1. 40	57 ·0	59 ·4
0. 24	40. 30	0. 9	·1113	1. 0	·00976	3. 40	59 ·0	61 ·4
1. 12	39. 30	2. 15	·1107	2. 37	·00794	9. 40	57 ·0	57 ·3
	***	3. 3	·1120	5. 4	·00392	21. 40	54 ·0	56 ·0
1. 51	41. 0	3. 14	·1114	6. 53	·00340			
2. 10	39. 30	3. 34	·1113	7. 20	·00364			
2. 51	39. 0	3. 44	·1108	7. 51	·00362			
	***	4. 7	·1118	10. 45	·00480			
3. 15	39. 40	4. 20	·1112	12. 4	·00576			
3. 47	37. 30	4. 39	·1110	17. 1	·01001			
4. 14	39. 30	4. 47	·1113		·00963			
4. 54	40. 40	5. 0	·1110	22. 0	·00984			
5. 37	35. 10	5. 50	·1120	23. 59	·00949			
6. 43	36. 40	5. 58	·1111					
7. 15	28. 25	6. 43	·1118					
	***	7. 6	·1106					
8. 8	27. 30	7. 21	·1116					
8. 36	31. 50	7. 53	·1112					
9. 0	30. 30	8. 9	·1117					
9. 37	25. 15	8. 30	·1116					
10. 0	19. 30	9. 5	·1121					
10. 37	23. 50	9. 26	·1136					
11. 36	28. 25	9. 41	·1131					
11. 45	27. 30	9. 55	·1133					
12. 45	32. 40	11. 0	·1117					
13. 14	32. 45	11. 15	·1119					
13. 44	34. 50	11. 38	·1130					
14. 9	33. 0	12. 14	·1129					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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 h m	° ′ ″	Oct. 29 h m		h m		h m	°	°
14. 32	21. 33. 30	13. 22	·1132					
	***	13. 39	·1141					
16. 9	32. 30	14. 18	·1138					
	***	14. 37	·1141					
16. 29	34. 30	15. 27	·1139					
16. 44	32. 30	15. 54	·1144					
17. 44	33. 30	16. 6	·1141					
18. 12	36. 30	16. 13	·1149					
	***	16. 37	·1146					
19. 12	34. 20	16. 49	·1153					
20. 0	37. 55	17. 7	·1151					
20. 51	34. 50	17. 24	·1154					
	***	18. 22	·1144					
23. 6	38. 50	19. 0	·1147					
23. 59	42. 15	19. 41	·1136					
		20. 9	·1145					
		20. 30	·1148					
		21. 54	·1141					
		22. 15	·1136					
		22. 24	·1129					
		23. 12	·1113					
		23. 59	·1111					
Oct. 30		Oct. 30		Oct. 30		Oct. 30		
0. 0	21. 42. 15	0. 0	·1111	0. 0	·00940	1. 40	57 ·0	58 ·0
1. 0	41. 20	0. 7	·1111	1. 0	·00888	3. 40	59 ·0	60 ·8
1. 14	41. 35	1. 38	·1094	2. 12	·00790	9. 40	58 ·6	60 ·0
1. 43	40. 30		***	3. 0	·00662	21. 40	49 ·5	52 ·8
2. 0	43. 30	2. 10	·1108	5. 10	·00192			
3. 36	38. 10		***		·00236			
5. 24	35. 0	2. 45	·1096	10. 0	·00165			
6. 2	30. 30		***	11. 23	·00225			
6. 27	30. 30	3. 19	·1102	17. 7	·00982			
7. 52	34. 0		***	22. 15	·00989			
9. 7	30. 50	5. 30	·1109	23. 59	·01028			
9. 36	33. 30	5. 43	·1104					
10. 12	16. 40	5. 50	·1107					
	***	5. 56	·1103					
11. 31	25. 30	6. 24	·1114					
13. 12	34. 10		***					
13. 49	35. 30	8. 13	·1115					
14. 11	34. 45	8. 26	·1121					
	***	8. 45	·1120					
16. 0	38. 30	9. 15	·1127					
	***		***					
17. 44	36. 0	9. 53	·1129					
	***		***					
19. 31	36. 0	10. 0	·1139					
	***	11. 30	·1132					
21. 25	32. 30	11. 46	·1130					
	***	12. 22	·1133					
23. 59	40. 45	12. 45	·1132					
		13. 3	·1136					
		13. 23	·1135					
		13. 43	·1139					
		16. 2	·1136					
		17. 49	·1143					
		20. 14	·1146					
		22. 15	·1143					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Oct. 30 h m		h m		h m	°	°
		23. 38	·1124					
		23. 59	·1124					
Oct. 31		Oct. 31		Oct. 31		Oct. 31		
0. 0	21. 40. 45	0. 0	·1124	0. 0	·01030	1. 40	54 ·0	56 ·0
0. 24	39. 30	1. 34	·1115	0. 15	·01042	3. 40	59 ·0	57 ·5
1. 44:	40. 40	2. 30	·1118	1. 7	·01018	9. 40	58 ·3	60 ·0
5. 11:	35. 0	2. 40	·1114	3. 0	·00695	22. 40	55 ·4	57 ·4
9. 22	34. 30	3. 37	·1121	4. 39	{·00266			
9. 52	29. 5	4. 0	·1116		{·00314			
10. 16	28. 50	4. 23	·1121	7. 5	·00294			
10. 53	34. 30	9. 28	·1130	10. 50	·00226			
11. 30	33. 20	9. 39	·1144	12. 35	·00260			
12. 58	35. 40	9. 52	·1142	17. 0	·00398			
14. 21	35. 0	10. 25	·1126	19. 10	·00429			
15. 16	36. 15	11. 11	·1135	23. 59	·00494			
15. 57	34. 30		***					
16. 55	35. 30	18. 30	·1148					
	***		***					
20. 28	33. 25	20. 6	·1143					
21. 55	36. 20		***					
23. 18	35. 30	23. 59	·1122					
23. 59	38. 50							
Nov. 1		Nov. 1		Nov. 1		Nov. 1		
0. 0	21. 38. 30	0. 0	·1122	0. 0	·00492	7. 10	55 ·5	58 ·7
0. 10	38. 5	1. 14	·1111	2. 7	·00471	12. 40	54 ·5	57 ·6
	***		***	4. 19	{·00254	13. 40	54 ·2	57 ·2
1. 36	42. 20	2. 30	·1112		{·00302	14. 40	54 ·4	57 ·3
6. 11	33. 30	3. 15	·1119	7. 0	·00237	15. 40	55 ·0	57 ·6
8. 12	32. 35	3. 26	·1115	14. 22	·00521	16. 40	55 ·7	57 ·9
8. 36	30. 0	4. 22	·1120	15. 0	·00516	17. 40	56 ·0	58 ·2
11. 25	35. 50	6. 15	·1123	16. 30	·00551	18. 40	56 ·6	58 ·6
11. 54	33. 10	9. 55	·1135	18. 19	·00496	19. 40	57 ·3	59 ·0
12. 29	35. 5	10. 33	·1137	22. 7	{·00224	20. 40	57 ·6	59 ·4
12. 45	34. 40	10. 42	·1144		{·00262	21. 40	58 ·0	60 ·0
13. 12	35. 50	10. 53	·1139	23. 59	·00260	22. 40	58 ·3	60 ·0
14. 1	34. 15	12. 15	·1144			23. 40	58 ·7	60 ·3
14. 30	44. 30	13. 14	·1139					
15. 25	36. 50	14. 56	·1142					
15. 43	34. 0	16. 10	·1147					
16. 14	32. 40	16. 31	·1140					
17. 12	34. 50	17. 36	·1144					
17. 45	33. 50	19. 2	·1140					
20. 39	33. 10	19. 30	·1142					
	***	21. 51	·1131					
22. 0	34. 55	23. 59	·1129					
22. 58	40. 0							
23. 32	40. 15							
23. 59	42. 25							
Nov. 2		Nov. 2		Nov. 2		Nov. 2		
0. 0	21. 42. 25	0. 0	·1129	0. 0	·00268	0. 40	59 ·2	60 ·5
	***	1. 36	·1128	1. 30	·00320	1. 40	60 ·0	61 ·0
1. 44	42. 0		(†)	2. 19	·00374	2. 40	61 ·0	62 ·4
	(†)	3. 40	·1133*	3. 25	{·00381	3. 40	61 ·0	63 ·5
3. 40	37. 8*	9. 33	·1143		{·00644	4. 40	61 ·5	64 ·0
9. 40	32. 17*	9. 48	·1140	5. 30	{·00468	5. 40	61 ·5	63 ·6
9. 45	34. 30	10. 7	·1144		{·00780	6. 40	62 ·0	63 ·6

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 2		Nov. 2		Nov. 2		Nov. 2		
h m	° ′ ″	h m		h m		h m	°	°
10. 37	21. 32. 40	10. 20	·1143	6. 7	{·00754	7. 40	62 ·5	63 ·8
11. 42	34. 25	10. 38	·1148		{·01029	8. 40	62 ·8	64 ·0
12. 29	33. 30	11. 15	·1142	8. 30	·00937	9. 40	62 ·8	64 ·8
12. 55	31. 55	11. 56	·1143	9. 37	·00855	10. 40	62 ·8	64 ·8
13. 47	31. 55	12. 10	·1140	9. 49	·00896	11. 40	62 ·8	65 ·0
15. 0	36. 30	12. 34	·1144	10. 25	·00944	21. 40	60 ·8	60 ·8
15. 24	34. 30	13. 34	·1139	15. 35	·00935			
	***	15. 2	·1145		(†)			
15. 49	37. 0	15. 21	·1143	21. 42	·01073			
16. 12	33. 0	15. 40	·1147	22. 23	·01081			
	***	15. 47	·1146	22. 45	·01120			
16. 45	33. 15	16. 53	·1145	23. 59	·01094			
17. 12	38. 20	17. 15	·1151					
18. 40	32. 30	17. 32	·1151					
	***	17. 40	·1156					
19. 39	34. 30	18. 45	·1153					
	***	19. 0	·1157					
20. 12	34. 20	19. 39	·1149					
20. 25	32. 0	20. 5	·1157					
20. 33	34. 30	21. 0	·1142					
20. 44	32. 20	21. 46	·1137					
20. 58	35. 20	22. 22	·1149					
21. 22	33. 10	22. 31	·1145					
22. 7	34. 10	22. 37	·1146					
22. 27	37. 30	22. 55	·1134					
22. 37	37. 5	23. 19	·1122					
22. 52	41. 10	23. 31	·1128					
23. 30	37. 40	23. 59	·1114					
23. 59	29. 30							
Nov. 3		Nov. 3		Nov. 3		Nov. 3		
0. 0	21. 39. 25	0. 0	·1114	0. 0	·01090	1. 40	62 ·5	64 ·0
0. 8	38. 50	0. 52	·1126	1. 15	·00997	3. 40	64 ·0	66 ·0
	***	1. 8	·1132	2. 11	·00900	9. 40	64 ·3	66 ·0
0. 21	41. 0	2. 15	·1142	4. 50	·00484	21. 40	59 ·4	62 ·0
	***	2. 36	·1142	5. 30	·00465			
0. 54	40. 0	3. 11	·1131	6. 0	·00601			
1. 12	42. 20	4. 45	·1136	6. 54	{·00629			
2. 0	41. 10	5. 43	·1136		{·00781			
2. 45	41. 25	5. 52	·1132	9. 28	·00622			
5. 0:	36. 40	6. 12	·1132	10. 10	·00654			
8. 23	34. 10	6. 30	·1135	11. 15	·00653			
15. 24	34. 20	7. 39	·1132	11. 53	·00722			
	(†)	8. 7	·1136	19. 45	·01207			
21. 23	33. 30		***	23. 59	·01220			
	***	11. 0	·1134					
23. 59	41. 10	15. 17	·1139					
			(†)					
		21. 35	·1143					
		21. 57	·1136					
		22. 15	·1141					
		22. 56	·1131					
		23. 27	·1134					
		23. 36	·1137					
		23. 59	·1136					
Nov. 4		Nov. 4		Nov. 4		Nov. 4		
0. 0	21. 41. 10	0. 0	·1136	0. 0	·01220	1. 40	61 ·7	63 ·7
0. 19	40. 50		***	1. 0	·01255	3. 40	64 ·7	65 ·4

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. 4		Nov. 4		Nov. 4		Nov. 4		
h m	° ′ ″	h m		h m		h m	°	°
1. 30	21. 41. 0	2. 0	·1131	1. 15	·01256	9. 40	64 ·0	66 ·5
2. 0	39. 50	3. 24	·1125	2. 36	·01140	21. 40	61 ·3	63 ·4
2. 47	39. 50	4. 2	·1132	4. 30	·00951			
4. 24	37. 30	4. 17	·1128	6. 24	·00699			
5. 6	37. 10	5. 0	·1132	7. 24	·00649			
5. 43	37. 50	5. 33	·1143	9. 0	·00541			
6. 13	39. 0	6. 37	·1120	10. 19	·00513			
6. 56	26. 0	6. 52	·1124	14. 0	·00617			
7. 42	36. 10	8. 26	·1130	20. 25	·00859			
7. 59	38. 20	8. 42	·1138	23. 59	·00905			
9. 9	32. 20	9. 25	·1131					
10. 12	33. 20	9. 54	·1143					
10. 32	30. 50	10. 15	·1138					
11. 41	33. 30	10. 26	·1141					
12. 14	33. 0	10. 42	·1141					
12. 30	33. 30	11. 0	·1135					
12. 49	32. 20	11. 28	·1137					
13. 43	33. 0	11. 39	·1133					
14. 57	33. 30	12. 17	·1134					
15. 34	37. 15	12. 30	·1141					
16. 9	34. 40	12. 37	·1136					
16. 52	37. 40	12. 49	·1134					
19. 12	33. 30	13. 52	·1145					
19. 30	34. 0	14. 15	·1142					
20. 13	32. 40	14. 23	·1145					
21. 4	34. 0	14. 39	·1137					
21. 42	38. 0	16. 38	·1142					
22. 0	37. 30	17. 0	·1141					
22. 15	39. 0	18. 6	·1145					
22. 45	39. 35	18. 47	·1143					
23. 18	38. 15	19. 38	·1146					
23. 59	40. 20	20. 0	·1143					
		21. 0	·1139					
		21. 37	·1134					
		22. 9	·1120					
		22. 43	·1126					
		23. 13	·1124					
		23. 59	·1126					
Nov. 5		Nov. 5		Nov. 5		Nov. 5		
0. 0	21. 40. 20	0. 0	·1126	0. 0	·00890	1. 40	63 ·0	65 ·0
0. 13	41. 30	0. 37	·1128	1. 30	·00854	3. 40	64 ·0	66 ·0
1. 27	40. 30	0. 52	·1125	2. 54	·00750	9. 40	63 ·3	66 ·0
1. 40	41. 50	4. 23	·1109	4. 17	·00601	21. 40	57 ·9	61 ·3
2. 15	39. 25	4. 52	·1135	4. 38	·00594			
2. 30	41. 0	5. 14	·1132	5. 32	·00504			
2. 44	40. 0	5. 33	·1137	6. 41	·00555			
3. 30	39. 50	5. 55	·1136	8. 45	{·00553 ·00801			
4. 7	38. 50	6. 15	·1129					
4. 32	34. 0	6. 29	·1129	14. 35	·00782			
4. 47	34. 30	6. 45	·1150	19. 23	·01234			
	***	6. 53	·1145	22. 40	{·01216 ·00804			
5. 13	32. 25	7. 2	·1146					
6. 2	37. 50	7. 10	·1143	23. 59	·00955			
6. 37	26. 40	7. 29	·1133					
6. 51	32. 0	7. 43	·1138					
7. 11	31. 50	8. 4	·1131					
7. 22	33. 10	8. 22	·1137					
7. 39	32. 50	10. 7	·1144					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 5		Nov. 5						
h m	° ′ ″	h m		h m		h m	°	°
7. 55	21. 34. 30	11. 32	·1142					
8. 14	33. 20	11. 40	·1150					
8. 28	34. 35	12. 18	·1145					
	***	12. 30	·1149					
10. 6	33. 50	13. 22	·1149					
10. 49	32. 30	13. 51	·1143					
10. 57	32. 45	20. 15	·1151					
11. 11	32. 20	21. 37	·1149					
12. 5	35. 0	23. 35	·1136					
12. 43	33. 0		(†)					
13. 0	34. 50							
13. 29	33. 10							
13. 53	34. 45							
14. 8	34. 30							
14. 18	35. 30							
	***							
18. 56	35. 50							
21. 13	34. 25							
	***							
23. 13	36. 20							
	(†)							
Nov. 6		Nov. 6		Nov. 6		Nov. 6		
	(†)		(†)	1. 40	·00990*	1. 40	59 ·2	61 ·7
0. 19	21. 36. 5	0. 39	·1125	3. 40	·00822*	3. 40	61 ·0	63 ·3
1. 5	37. 5	2. 50	·1138	9. 40	·00615*	9. 45	61 ·9	64 ·4
2. 28	37. 30	3. 46	·1132	21. 40	·00604*	21. 40	58 ·5	61 ·2
4. 28	34. 45	7. 24	·1139					
7. 22	34. 25	7. 46	·1137					
7. 43	32. 45	8. 4	·1140					
8. 10	34. 0	14. 15	·1141					
12. 13	32. 40	16. 0	·1144					
18. 7	34. 30	19. 49	·1141					
20. 58	32. 30	22. 53	·1123					
23. 59	36. 30	23. 59	·1122					
Nov. 7		Nov. 7		Nov. 7		Nov. 7		
0. 0	21. 36. 30	0. 0	·1122	1. 40	·00934*	1. 40	59 ·0	59 ·7
0. 52	38. 20	0. 32	·1122	3. 40	·00886*	3. 40	60 ·0	60 ·0
4. 39	35. 50	0. 53	·1124	9. 40	·00855*	9. 40	58 ·0	58 ·7
14. 12	34. 50	2. 18	·1143	22. 0	·00809*	22. 0	54 ·5	55 ·0
14. 55	35. 40	3. 25	·1142					
15. 14	34. 50	4. 32	·1154					
15. 53	36. 0	5. 30	·1151					
16. 11	35. 5	9. 36	·1160					
	***	9. 47	·1156					
20. 6	33. 50	16. 40	·1160					
	***	17. 3	·1161					
22. 13	32. 30	17. 52	·1162					
	***	18. 49	·1168					
23. 59	36. 0	21. 0	·1165					
		22. 9	·1160					
		23. 11	·1151					
		23. 34	·1152					
			(†)					
Nov. 8		Nov. 8		Nov. 8		Nov. 8		
0. 0	21. 36. 5		(†)	7. 15	·00641*	7. 15	54 ·7	54 ·5
1. 15	37. 45	0. 11	·1141	21. 40	·00050*	12. 40	55 ·0	54 ·0
	***	1. 33	·1159			13. 40	55 ·0	54 ·0

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

November 6. The time-piece giving motion to the cylinder for register of Vertical Force was away from this date to December 3, for the purpose of altering it, so that the cylinder should make one revolution in 24 hours instead of two revolutions as heretofore.

November 8^{d}. 21^{h}. 40^{m}. Vertical Force. The number inserted is correctly reduced from the observation. It is probable that a displacement of the magnet had taken place.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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. 29	21. 34. 0	5. 0	·1168			14. 40	55 ·0	54 ·6
8. 11	32. 20	5. 52	·1167			15. 40	55 ·0	54 ·6
8. 37	31. 30	8. 49	·1172			16. 40	55 ·0	54 ·7
8. 58	31. 10	9. 10	·1170			17. 40	55 ·6	54 ·8
9. 21	28. 40	9. 45	·1171			18. 40	56 ·2	55 ·4
10. 0	29. 55	10. 7	·1176			19. 40	57 ·4	56 ·2
12. 39	33. 50	11. 0	·1171			20. 40	58 ·1	56 ·7
15. 40	33. 50	11. 22	·1177			21. 40	58 ·3	57 ·0
16. 16	32. 50	12. 10	·1171			22. 40	59 ·0	57 ·7
16. 48	33. 0	12. 43	·1173			23. 40	59 ·6	58 ·2
17. 6	33. 45	13. 38	·1167					
17. 21	33. 0	14. 19	·1167					
17. 30	33. 50	15. 9	·1161					
17. 44	33. 0	16. 44	·1161					
19. 36	32. 20	17. 32	·1164					
20. 15	33. 0	18. 11	·1161					
21. 24:	33. 30	19. 53	·1159					
	***	20. 17	·1162					
22. 52	38. 30	21. 15	·1143					
23. 38	39. 20	22. 0	·1144					
	(†)	22. 54	·1128					
		23. 59	·1134					
Nov. 9		Nov. 9		Nov. 9		Nov. 9		
	(†)	0. 0	·1134	1. 40	·00104*	0. 40	60 ·2	58 ·4
0. 53	21. 39. 20	2. 33	·1130	3. 40	·00144*	1. 40	61 ·0	58 ·5
	***	3. 6	·1132	9. 40	·00214*	2. 40	61 ·1	58 ·8
3. 4	38. 25	3. 38	·1145	21. 40	·00489*	3. 40	61 ·4	59 ·2
	***	4. 15	·1142			4. 40	61 ·4	59 ·5
3. 40	41. 5		***			5. 40	61 ·5	59 ·7
4. 20	40. 30	5. 32	·1151			6. 40	61 ·5	59 ·7
	***	5. 37	·1157			7. 40	61 ·7	59 ·7
6. 12	33. 30	6. 19	·1153			8. 40	62 ·0	60 ·0
6. 37	37. 30	6. 23	·1158			9. 40	60 ·8	60 ·0
7. 0	35. 40	6. 33	·1140			10. 40	60 ·6	60 ·0
7. 15	34. 0	6. 39	·1148			11. 40	60 ·5	59 ·8
7. 30	37. 30	7. 7	·1134			21. 40	57 ·0	57 ·0
7. 39	35. 50	7. 13	·1126					
7. 43	36. 30	7. 22	·1131					
	(†)	7. 31	·1122					
9. 48	30. 0	7. 40	·1126					
10. 2	18. 15		(†)					
10. 44	29. 20	9. 49	·1097					
10. 55	27. 30	10. 5	·1106					
11. 25	34. 50	10. 23	·1104					
11. 37	34. 30	10. 38	·1093					
11. 44	35. 30	11. 7	·1131					
11. 57	29. 0	11. 23	·1132					
12. 11	31. 30	11. 32	·1136					
12. 41	28. 10	11. 40	·1128					
12. 52	27. 10	11. 50	·1136					
12. 57	27. 0	12. 7	·1118					
13. 40	33. 0	12. 36	·1128					
	***	12. 47	·1126					
15. 0	34. 0	14. 30	·1128					
15. 22	34. 30	14. 37	·1132					
15. 35	35. 30	14. 47	·1128					
15. 52	33. 30	15. 13	·1131					
16. 13	36. 40	15. 26	·1127					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 9		Nov. 9						
h m	° ′ ″	h m		h m		h m	°	°
16. 45	21. 33. 30	15. 39	·1131					
16. 59	34. 40	15. 51	·1129					
	***	16. 30	·1138					
17. 56	32. 35	17. 11	·1136					
	***	17. 21	·1139					
18. 28	33. 45	17. 44	·1144					
	***	19. 6	·1147					
18. 45	32. 45	20. 9	·1146					
	***	21. 5	·1151					
19. 12	34. 20	21. 44	·1146					
	***		(†)					
20. 6	33. 30							
20. 26	32. 20							
	***							
20. 55	32. 50							
21. 10	34. 30							
21. 30	35. 0							
	(†)							
Nov. 10		Nov. 10		Nov. 10		Nov. 10		
	(†)		(†)	1. 40	·00642*	1. 40	57 ·5	56 ·7
1. 40	21. 37. 52*	1. 40	·1141*	3. 40	·00584*	3. 40	58 ·4	57 ·8
3. 40	37. 20	3. 40	·1141	9. 40	·00439*	9. 40	56 ·8	57 ·5
6. 0	34. 30	7. 29	·1153	21. 40	·00794*	21. 40	51 ·8	52 ·3
8. 21	34. 35	7. 52	·1162					
8. 30	33. 50	8. 6	·1155					
8. 49	34. 20	8. 19	·1159					
9. 11	33. 5	8. 54	·1151					
9. 39	34. 30	9. 3	·1154					
10. 0	34. 0	9. 32	·1142					
11. 51	33. 50	10. 44	·1143					
12. 19	35. 15	11. 6	·1154					
13. 10	35. 30	11. 49	·1149					
13. 39	34. 30	12. 5	·1152					
19. 15	36. 15	12. 19	·1148					
21. 44	34. 0	12. 37	·1149					
23. 36	37. 20	12. 44	·1154					
	(†)	12. 53	·1149					
		17. 24	·1166					
		18. 9	·1164					
		20. 15	·1170					
		22. 26	·1156					
		23. 31	·1154					
		23. 59	·1161					
Nov. 11		Nov. 11		Nov. 11		Nov. 11		
	(†)		(†)	1. 40	·00758*	1. 40	54 ·7	54 ·0
1. 0	21. 34. 0	1. 22	·1148	3. 40	·00518*	3. 40	57 ·3	55 ·8
1. 15	33. 30	1. 55	·1161	9. 40	·00089*	9. 40	55 ·8	55 ·5
1. 45	34. 25	2. 7	·1154	21. 40	·00840*	21. 40	46 ·2	47 ·6
1. 53	36. 50	2. 19	·1169					
2. 10	33. 45	2. 28	·1154					
2. 15	40. 0	3. 0	·1148					
2. 38	34. 0	4. 4	·1151					
3. 15	35. 30	4. 16	·1148					
	***	4. 41	·1137					
4. 25	38. 30	5. 0	·1146					
	***	5. 7	·1141					
4. 51	36. 0	5. 15	·1146					

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.

November 11^{d}. 9^{h}. 40^{m}. Vertical Force. The number is correctly deduced from the observations, and the changes indicated seem to be correct, as similar differences at the same time are shewn on November 12.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 11		Nov. 11						
h m	° ′ ″	h m		h m		h m	°	°
5. 9	21. 38. 0	5. 27	·1129					
5. 15	36. 5	5. 40	·1128					
5. 24	38. 30	5. 53	·1137					
5. 37	34. 40	6. 4	·1126					
5. 45	32. 50	6. 10	·1126					
5. 57	38. 45	6. 23	·1134					
6. 11	37. 40	6. 32	·1126					
6. 29	39. 25	6. 43	·1130					
6. 40	35. 35	6. 47	·1122					
6. 43	37. 55	7. 1	·1122					
7. 0	32. 50	7. 15	·1134					
7. 24	35. 10	7. 30	·1126					
7. 42	30. 50	7. 55	·1152					
	***	8. 6	·1151					
8. 8	29. 50	8. 21	·1160					
8. 13	28. 35	8. 28	·1154					
8. 56	31. 30	9. 0	·1161					
9. 43	30. 55	9. 54	·1157					
9. 52	31. 50	10. 47	·1161					
10. 53	30. 30	11. 12	·1179					
11. 13	28. 10	11. 26	·1166					
11. 28	32. 15	11. 37	·1168					
11. 45	30. 0	12. 5	·1162					
11. 56	32. 45	15. 4	·1169					
12. 24	30. 40	15. 25	·1162					
13. 7	32. 30	15. 56	·1166					
14. 24	32. 15	16. 15	·1173					
14. 45:	32. 50	16. 58	·1172					
15. 12	31. 0	17. 44	·1178					
	***	22. 13	·1185					
15. 45	32. 0		***					
16. 0	33. 0	22. 54	·1176					
16. 29:	32. 30		***					
17. 15	33. 20	23. 11	·1178					
17. 42	32. 35		***					
	***	23. 59	·1164					
21. 30	32. 20							
	***							
23. 35	36. 30							
23. 53	32. 50							
23. 59	34. 30							
Nov. 12		Nov. 12		Nov. 12		Nov. 12		
0. 0	21. 35. 0	0. 0	·1164	1. 40	·00783*	1. 40	48 ·0	48 ·4
0. 11	36. 30	0. 29	·1175	3. 40	·00644*	3. 40	51 ·0	50 ·4
0. 30	38. 30	0. 56	·1178	9. 40	·00150*	9. 40	53 ·0	52 ·0
	***	2. 42	·1162	21. 40	·00564*	21. 40	48 ·0	48 ·0
2. 15	39. 50	3. 28	·1122					
	***	3. 46	·1144					
2. 31	39. 30	4. 15	·1155					
	***	4. 35	·1142					
3. 21	42. 10	4. 44	·1145					
3. 55	36. 0	5. 6	·1138					
4. 28	39. 35	5. 15	·1154					
4. 51	34. 30	5. 22	·1148					
5. 11	39. 50	5. 33	·1146					
5. 24	37. 0	5. 45	·1151					
	***	5. 58	·1136					
5. 44	42. 50	6. 9	·1138					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F Magnet.
Nov. 12		Nov. 12						
h m	° ′ ″	h m		h m		h m	°	°
6. 10	21. 42. 30	6. 9	·1138					
6. 25	39. 30	6. 23	·1142					
6. 35	39. 30	6. 38	·1137					
6. 49	37. 30	6. 42	·1157					
7. 1	41. 30	6. 58	·1138					
7. 15	33. 25	7. 5	·1152					
7. 31	34. 50	7. 10	·1151					
8. 10	31. 25	7. 29	·1156					
8. 19	32. 30	7. 44	·1154					
8. 32	31. 30	8. 2	·1162					
	***	8. 7	·1156					
8. 53	32. 40	8. 12	·1166					
9. 37	25. 35	8. 22	·1160					
9. 59	10. 30	8. 58	·1154					
10. 15	12. 15	9. 15	·1148					
10. 29	21. 0	9. 26	·1137					
10. 45	24. 0	10. 1	·1189					
10. 57	21. 0	10. 13	·1178					
11. 19	22. 25	10. 21	·1176					
11. 40	31. 0	10. 30	·1160					
11. 51	28. 30	10. 42	·1165					
12. 39	29. 50	11. 9	·1164					
	***	11. 25	·1146					
13. 21	35. 0	11. 43	·1150					
13. 36	41. 20	12. 23	·1144					
13. 47	37. 15	13. 14	·1146					
14. 1	41. 25	13. 26	·1141					
14. 14	37. 50	13. 52	·1149					
14. 30	47. 30	14. 2	·1144					
15. 17	35. 30	14. 23	·1160					
	***	14. 42	·1160					
15. 42	39. 30	15. 13	·1147					
	***	15. 22	·1151					
16. 45	36. 20	16. 0	·1155					
16. 52	37. 30	16. 39	·1153					
17. 15	35. 40	16. 49	·1139					
17. 41	37. 40	17. 9	·1140					
	***	18. 6	·1152					
18. 39	35. 20	18. 22	·1161					
19. 0	37. 30	19. 52	·1138					
19. 36	37. 10	20. 10	·1149					
19. 44	38. 0	20. 35	·1154					
	***	21. 7	·1155					
21. 23	36. 30	22. 20	·1136					
	***	22. 52	·1133					
23. 15	39. 30	23. 7	·1137					
	(†)	23. 16	·1134					
			(†)					
Nov. 13		Nov. 13		Nov. 13		Nov. 13		
	(†)		(†)	1. 40	·00820*	1. 40	49 ·0	48 ·0
0. 35	21. 38. 50	1. 37	·1139	3. 40	·00733*	3. 40	51 ·0	49 ·5
	***	4. 22	·1151	9. 40	·00162*	9. 40	52 ·0	51 ·2
1. 25	39. 0	5. 0	·1146	21. 40	·00148*	21. 40	50 ·0	50 ·3
1. 41	40. 50	5. 9	·1138					
	***	5. 22	·1154					
3. 29	36. 20	5. 37	·1152					
3. 44	36. 50	5. 49	·1159					
4. 22	34. 45	6. 38	·1156					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 13		Nov. 13						
h m	° ′ ″	h m		h m		h m	°	°
4. 57	21. 35. 20	9. 0	·1162					
5. 19	29. 25	9. 14	·1172					
5. 30	32. 0	9. 50	·1164					
5. 51	29. 30	10. 15	·1162					
	***	12. 19	·1164					
6. 30	33. 30	12. 30	·1169					
7. 11	34. 0	14. 47	·1161					
7. 36	33. 0	18. 31	·1162					
7. 57	33. 20	18. 52	·1169					
8. 13	32. 30	22. 0	·1158					
8. 54	33. 30	22. 39	·1146					
9. 14	29. 30	22. 47	·1149					
9. 59	34. 30	23. 15	·1141					
12. 52	34. 20	23. 59	·1140					
13. 12	35. 30							
14. 33	35. 45							
15. 0	34. 35							
16. 13	36. 40							
	***							
19. 43	34. 40							
20. 20	34. 40							
21. 10	33. 30							
23. 59	38. 10							
Nov. 14		Nov. 14		Nov. 14		Nov. 14		
0. 0	21. 38. 10	0. 0	·1140	1. 40	·00158*	1. 40	53 ·6	52 ·6
0. 58	39. 0	3. 22	·1142	3. 40	·00257*	3. 40	54 ·5	54 ·0
2. 40	38. 15	4. 6	·1139	9. 40	·00242*	9. 40	56 ·4	55 ·0
3. 0	37. 0	4. 30	·1143	23. 16	·00671*	23. 16	52 ·0	51 ·0
5. 29	36. 10	8. 4	·1147					
6. 6	35. 0	8. 45	·1151					
6. 29	35. 20	9. 18	·1162					
6. 54	34. 30	9. 56	·1149					
7. 8	35. 0		***					
7. 43	33. 40	19. 39	·1161					
8. 15	31. 40	20. 32	·1159					
8. 40	32. 40	20. 48	·1154					
	***	21. 26	·1154					
10. 51	35. 30	21. 49	·1158					
11. 27	34. 45		***					
12. 15	36. 15	23. 30	·1149					
14. 17	36. 50	23. 59	·1149					
18. 51	36. 20							
19. 13	37. 0							
19. 45	36. 20							
20. 11	37. 40							
21. 4	33. 0							
	(†)							
23. 16	35. 55*							
	(†)							
Nov. 15		Nov. 15		Nov. 15		Nov. 15		
	(†)	0. 0	·1149	7. 10	·00487*	7. 10	54 ·0	53 ·0
0. 27	21. 37. 30	0. 13	·1139	21. 40	·00440*	12. 40	52 ·5	52 ·1
2. 44	37. 20	5. 4	·1149			13. 40	52 ·0	51 ·8
3. 30	35. 50	5. 30	·1144			14. 40	52 ·3	51 ·7
5. 23	35. 10	5. 52	·1146			15. 40	52 ·8	52 ·0
5. 45	32. 20	6. 14	·1145			16. 40	53 ·0	52 ·0
6. 3	32. 40	7. 7	·1151			17. 40	53 ·0	52 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 15		Nov. 15				Nov. 15		
h m	° ′ ″	h m		h m		h m	°	°
6. 27	21. 31. 0	7. 30	·1148			18. 40	53 ·2	52 ·2
6. 59	33. 40	7. 51	·1150			19. 40	54 ·0	52 ·4
7. 41	33. 45	8. 10	·1147			20. 40	53 ·9	52 ·3
7. 55	34. 30	8. 45	·1153			21. 40	54 ·3	52 ·7
	***	8. 58	·1151			22. 40	54 ·3	52 ·7
8. 54	33. 0	9. 20	·1154			23. 40	55 ·0	53 ·3
9. 52	33. 55	9. 30	·1151					
10. 13	32. 40	10. 7	·1155					
10. 22	33. 0	10. 20	·1157					
10. 55	31. 45	10. 31	·1155					
11. 22	33. 0	11. 0	·1157					
12. 21	33. 0	11. 49	·1152					
13. 36	36. 0	12. 21	·1155					
14. 3	35. 50	13. 18	·1154					
14. 52	34. 10	13. 26	·1150					
	***	14. 9	·1149					
19. 2	34. 50	14. 30	·1145					
19. 22	35. 40	15. 17	·1146					
19. 43	35. 0	15. 37	·1149					
20. 28	35. 10	15. 47	·1147					
	(†)	17. 16	·1148					
21. 40	32. 21*	18. 20	·1143					
	(†)	19. 7	·1147					
		19. 24	·1145					
		19. 47	·1150					
		20. 39	·1152					
		21. 26	·1142					
		22. 15	·1138					
		23. 59	·1139					
Nov. 16		Nov. 16		Nov. 16		Nov. 16		
	(†)	0. 0	·1139	1. 40	·00273*	0. 40	55 ·6	55 ·0
1. 40	21. 35. 38*	0. 39	·1140	3. 40	·00377*	1. 40	55 ·0	55 ·4
1. 54	34. 0	1. 7	·1131	9. 40	·00487*	2. 40	56 ·0	55 ·7
2. 14	35. 40	1. 36	·1132	21. 40	·01039*	3. 40	57 ·1	56 ·7
2. 22	33. 50	2. 47	·1134			4. 40	58 ·1	57 ·7
3. 41	33. 35	2. 56	·1141			5. 40	58 ·5	57 ·2
4. 36	30. 30	3. 14	·1131			6. 40	58 ·5	57 ·5
5. 0	8. 30	3. 36	·1130			7. 40	57 ·0	57 ·0
6. 15	33. 30	4. 12	·1146			8. 40	57 ·3	57 ·0
6. 46	30. 30	4. 48	·1127			9. 40	57 ·0	57 ·0
6. 58	31. 30	5. 10	·1127			10. 40	57 ·0	57 ·0
7. 43	28. 30	5. 34	·1111			11. 40	56 ·5	56 ·8
8. 2	23. 30	6. 0	·1121			21. 40	50 ·0	50 ·0
8. 26	26. 30	6. 7	·1116					
8. 43	16. 30	6. 39	·1124					
8. 53	16. 45	6. 48	·1122					
9. 41	28. 0	7. 37	·1122					
10. 43	30. 20	7. 54	·1139					
11. 14	22. 0	8. 1	·1135					
11. 58	28. 0	8. 7	·1137					
12. 8	26. 10	8. 20	·1132					
12. 37	33. 30	8. 31	·1134					
12. 47	31. 10	8. 38	·1127					
13. 29	29. 30	9. 30	·1138					
13. 59	36. 0	9. 45	·1135					
14. 21	36. 30	10. 4	·1139					
14. 44	33. 30	10. 18	·1140					
15. 0	41. 50	11. 0	·1151					

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. 16		Nov. 16						
h m	° ′ ″	h m		h m		h m	°	°
15. 57	21. 36. 35	11. 9	·1147					
16. 25	36. 25	11. 22	·1148					
16. 42	37. 45	11. 37	·1158					
17. 4	37. 40	12. 7	·1151					
17. 28	37. 0	12. 22	·1153					
17. 56	36. 15	12. 30	·1157					
18. 13	37. 50	12. 46	·1156					
18. 37	37. 5	13. 27	·1161					
18. 51	38. 20	14. 0	·1160					
19. 24	34. 30	14. 21	·1162					
	***	14. 42	·1162					
19. 49	34. 20	15. 0	·1172					
	***	15. 30	·1170					
20. 12	35. 15	16. 0	·1178					
20. 31	33. 30	16. 16	·1175					
	***	16. 44	·1167					
21. 16	37. 30	17. 4	·1170					
	***	17. 23	·1166					
21. 47	41. 20	17. 40	·1166					
	***	18. 16	·1157					
22. 42	37. 30	18. 37	·1162					
	***	18. 53	·1154					
22. 50	38. 50	19. 5	·1164					
22. 59	38. 0	19. 14	·1159					
	(†)	19. 48	·1158					
		20. 14	·1164					
			***					
		21. 38	·1121					
			***					
		22. 0	·1120					
			***					
		22. 15	·1122					
		22. 32	·1131					
		22. 37	·1127					
		23. 20	·1135					
			(†)					
Nov. 17		Nov. 17		Nov. 17		Nov. 17		
	(†)		(†)	1. 40	·01039*	1. 40	52 ·0	51 ·3
1. 13	21. 37. 40	1. 29	·1134	3. 40	·00901*	3. 40	54 ·0	52 ·0
	***	2. 0	·1124	9. 40	·00214*	9. 40	55 ·0	53 ·5
1. 49	41. 50	2. 7	·1127	21. 40	·00532*	21. 46	50 ·3	50 ·7
	***	2. 11	·1124					
2. 36	34. 40	2. 24	·1126					
2. 57	35. 30	2. 31	·1132					
	***	2. 44	·1126					
4. 19	28. 30	3. 19	·1126					
4. 39	32. 30	3. 40	·1132					
	***	4. 0	·1129					
4. 59	28. 0	4. 13	·1131					
	***	4. 22	·1137					
5. 41	29. 20	4. 34	·1126					
6. 18	26. 0	4. 46	·1128					
6. 43	11. 45	5. 0	·1122					
7. 14	21. 0	5. 24	·1125					
7. 21	20. 0	5. 43	·1121					
7. 43	22. 45	6. 0	·1124					
7. 54	22. 45	6. 15	·1125					
8. 19	25. 30	6. 38	·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.
Nov. 17		Nov. 17						
h m	° ′ ″	h m		h m		h m	°	°
8. 58	21. 13. 40	7. 0	·1134					
9. 51	20. 35	7. 22	·1135					
	***	7. 55	·1125					
10. 47	17. 30	8. 7	·1128					
11. 0	18. 40	8. 32	·1122					
11. 30	16. 30	8. 47	·1121					
12. 15	32. 40	9. 2	·1127					
12. 43	22. 40	9. 33	·1124					
12. 52	23. 50	10. 6	·1141					
13. 40	13. 35	10. 28	·1131					
14. 21	28. 0	10. 37	·1135					
14. 39	23. 20	10. 46	·1135					
15. 2	32. 0	11. 8	·1124					
15. 27	26. 0	11. 36	·1126					
16. 15	42. 10	12. 9	·1182					
16. 39	33. 30	12. 30	·1157					
16. 48	43. 20	12. 43	·1156					
17. 0	42. 40	12. 47	·1162					
17. 52	49. 30	13. 9	·1154					
18. 12	48. 0	13. 22	·1161					
18. 19	54. 20	13. 46	·1150					
18. 32	52. 0	14. 7	·1158					
18. 42	52. 30	14. 23	·1155					
18. 59	51. 0	14. 34	·1163					
19. 13	51. 0	14. 53	·1151					
20. 28	39. 30	15. 9	·1168					
20. 44	41. 0	15. 21	·1173					
20. 55	39. 50	15. 51	·1158					
	***	16. 14	·1164					
22. 27	41. 45	16. 26	·1141					
22. 41	40. 30	16. 37	·1138					
	***	16. 49	·1148					
23. 15	43. 30	17. 7	·1143					
	***	17. 16	·1137					
23. 59	39. 30	17. 30	·1147					
		17. 54	·1137					
		18. 5	·1146					
		18. 7	·1145					
		18. 16	·1134					
		18. 34	·1146					
		18. 43	·1146					
		18. 57	·1132					
		19. 15	·1128					
		19. 27	·1134					
		19. 40	·1128					
		20. 17	·1128					
		20. 23	·1122					
		20. 37	·1123					
		20. 54	·1114					
		21. 9	·1119					
		21. 44	·1108					
		23. 41	·1100					
		23. 59	·1104					
Nov. 18		Nov. 18		Nov. 18		Nov. 18		
0. 0	21. 39. 30	0. 0	·1104	1. 40	·00702*	1. 40	53 ·6	52 ·0
1. 0	38. 0		***	3. 40	·00521*	3. 40	57 ·0	56 ·0
	***	2. 52	·1124	9. 40	·00641*	9. 40	57 ·0	56 ·0
			***	21. 44	·01070*	21. 44	50 ·3	50 ·3

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

November 16^{d}. 5^{h}. 0^{m}. The Western Declination 21°. 8′. 30″ is correct.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 18		Nov. 18						
h m	° ′ ″	h m		h m		h m	°	°
2. 32	21. 41. 20	3. 10	·1109					
	***	3. 24	·1112					
3. 35	34. 35	3. 36	·1124					
3. 51	42. 40	3. 46	·1123					
4. 1	30. 20	3. 54	·1100					
4. 10	32. 15	4. 5	·1112					
4. 21	26. 30	4. 8	·1104					
4. 30	26. 20	4. 22	·1113					
4. 46	32. 30	4. 30	·1124					
5. 3	30. 0	4. 37	·1116					
5. 23	32. 40	4. 51	·1111					
5. 39	32. 45	5. 5	·1124					
5. 45	35. 20	5. 25	·1123					
	***	5. 37	·1129					
6. 10	32. 0	6. 10	·1116					
6. 15	32. 30	6. 29	·1121					
6. 39	30. 5	6. 35	·1126					
	***	6. 39	·1124					
6. 56	32. 50	6. 44	·1130					
7. 4	36. 30	6. 52	·1124					
7. 14	33. 20	6. 55	·1128					
7. 25	34. 0	7. 4	·1111					
	***	7. 13	·1121					
7. 52	30. 30	7. 30	·1122					
8. 10	21. 30	7. 37	·1127					
8. 23	36. 40	7. 51	·1115					
8. 30	33. 0	8. 0	·1116					
8. 41	36. 30	8. 3	·1141					
9. 21	31. 20	8. 10	·1136					
9. 50	33. 55	8. 20	·1112					
10. 4	31. 30	8. 27	·1123					
10. 19	32. 0	8. 51	·1117					
10. 41	31. 20	9. 44	·1127					
10. 57	34. 30	9. 53	·1121					
11. 43	31. 0	10. 24	·1131					
11. 57	32. 45	10. 32	·1139					
12. 21	31. 50	11. 22	·1129					
13. 13	32. 10	11. 36	·1132					
13. 29	39. 50	11. 57	·1129					
13. 50	32. 30	13. 21	·1152					
	***	13. 42	·1128					
15. 44	32. 20	13. 54	·1133					
16. 0	33. 30	14. 47	·1138					
16. 21	32. 30	15. 30	·1136					
17. 42	32. 55	16. 35	·1142					
20. 10	31. 20	19. 41	·1142					
22. 5	31. 30	21. 34	·1136					
	***	23. 9	·1122					
22. 40	33. 30	23. 59	·1125					
23. 12	32. 40							
23. 59	34. 30							
Nov. 19		Nov. 19		Nov. 19		Nov. 19		
0. 0	21. 34. 30	0. 0	·1125	1. 40	·00978*	1. 40	51 ·7	51 ·2
0. 58	34. 0		***	3. 40	·00868*	3. 40	53 ·2	51 ·7
3. 0	34. 30	3. 24	·1121	9. 40	·00441*	9. 40	54 ·0	52 ·8
5. 15	32. 20	4. 7	·1126	21. 40	·00590*	21. 40	51 ·2	51 ·0
6. 22	32. 20	5. 53	·1133					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 19		Nov. 19						
h m	° ′ ″	h m		h m		h m	°	°
7. 31	21. 30. 50	6. 29	·1132					
10. 11	29. 35	7. 7	·1136					
10. 27	29. 0	8. 46	·1139					
12. 11	29. 30	8. 54	·1137					
12. 27	24. 45	9. 36	·1137					
13. 15	30. 30	9. 53	·1141					
15. 30	31. 40	10. 6	·1140					
15. 57	32. 55	10. 24	·1142					
	***	11. 56	·1142					
18. 43	32. 20	12. 22	·1156					
	***	12. 37	·1148					
22. 6	32. 15	13. 0	·1149					
	***	13. 13	·1146					
23. 59	34. 30	13. 48	·1150					
		15. 37	·1150					
		18. 40	·1159					
		20. 26	·1161					
		23. 7	·1140					
		23. 48	·1142					
		23. 59	·1141					
Nov. 20		Nov. 20		Nov. 20		Nov. 20		
0. 0	21. 34. 30	0. 0	·1141	1. 40	·00564*	1. 40	52 ·8	52 ·3
0. 44	33. 0	2. 45	·1132	3. 40	·00366*	3. 40	55 ·c	53 ·6
1. 48	34. 45	2. 54	·1136	9. 40	·00490*	9. 40	56 ·5	54 ·5
4. 28	32. 20	3. 6	·1131	21. 40	·00846*	21. 40	51 ·5	51 ·2
	***	3. 41	·1134					
4. 54	34. 0	3. 52	·1132					
	***	4. 37	·1137					
5. 52	30. 30	5. 32	·1133					
7. 36	30. 35	6. 0	·1139					
8. 39	29. 35	7. 16	·1141					
9. 11	30. 10	7. 30	·1139					
9. 18	29. 35	9. 41	·1142					
	***	9. 54	·1140					
11. 8	29. 55	10. 28	·1144					
	***	10. 58	·1139					
11. 52	31. 40	11. 27	·1145					
12. 12	31. 20	12. 0	·1140					
12. 29	31. 20	12. 36	·1144					
12. 47	29. 30	12. 50	·1141					
13. 15	32. 0	13. 6	·1146					
13. 42	30. 10	13. 43	·1144					
14. 7	32. 30	13. 52	·1149					
14. 15	31. 0	14. 11	·1148					
14. 45	32. 10	14. 23	·1150					
14. 58	31. 5	14. 49	·1149					
16. 17	30. 30	16. 23	·1149					
	***	16. 37	·1153					
17. 26	32. 35	16. 52	·1150					
17. 44	32. 20	18. 39	·1156					
	***	21. 4	·1152					
19. 58	32. 40	21. 41	·1138					
21. 37	32. 20	22. 45	·1131					
	***	23. 55	·1128					
23. 30	34. 30	23. 59	·1129					
23. 41	36. 5							
23. 47	36. 10							
	(†)							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V. F. Magnet.
Nov.21		Nov.21		Nov.21		Nov.21		
h m	° ′ ″	h m		h m		h m	°	°
	(†)	0. 0	·1128	1. 40	·00883*	1. 40	54·3	52·8
0. 58	21. 35. 10	1. 41	·1124	3. 40	·00601*	3. 40	57·0	55·2
1. 59	34. 20	2. 20	·1126	9. 40	·00466*	9. 40	57·0	55·2
2. 28	35. 15	3. 0	·1122	23. 5	·01056*	23. 5	51·3	51·0
3. 28	32. 50	3. 21	·1122					
4. 21	32. 20	3. 36	·1128					
6. 5	32. 45	3. 54	·1130					
6. 36	29. 25	4. 13	·1136					
7. 27	32. 30	5. 37	·1140					
	***	6. 0	·1135					
8. 7	32. 30	6. 26	·1126					
8. 18	31. 30	6. 43	·1135					
8. 40	31. 30	6. 50	·1135					
9. 6	29. 0		***					
9. 24	31. 0	7. 45	·1142					
	***	8. 6	·1138					
12. 7	30. 30	8. 21	·1141					
12. 38	31. 30	8. 40	·1138					
13. 0	30. 0	9. 7	·1145					
13. 24	31. 50	9. 20	·1144					
14. 18	29. 10	9. 36	·1138					
15. 11	32. 30		***					
16. 16	32. 30	13. 54	·1142					
17. 0	33. 30	14. 4	·1150					
21. 26	32. 45	14. 32	·1142					
21. 40	32. 0	18. 36	·1153					
22. 54	35. 0	20. 49	·1152					
23. 27	33. 30	23. 59	·1141					
23. 59	33. 40							
Nov.22		Nov.22		Nov.22		Nov.22		
0. 0	21. 33. 40	0. 0	·1141	7. 18	·00932*	7. 18	52·0	51·4
0. 25	33. 20	0. 24	·1137	22. 40	·00432*	12. 40	51·0	51·2
1. 6	37. 30	0. 36	·1140			13. 40	51·6	51·2
1. 54	34. 35	2. 7	·1142			14. 40	51·8	51·3
3. 10	34. 30	2. 30	·1146			15. 40	52·2	51·4
4. 39	33. 20	3. 8	·1150			16. 40	52·5	51·5
6. 14	30. 55	7. 30	·1156			17. 40	53·0	51·9
	***	9. 0	·1157			18. 40	54·0	52·7
9 54	30. 30	9. 22	·1154			19. 40	55·0	53·4
10. 24	32. 30	9. 31	·1161			20. 40	55·5	53·8
	***	9. 37	·1161			21. 40	56·5	54·8
13. 26	30. 50	9. 41	·1156			22. 40	57·2	55·4
	***	9. 48	·1157			23. 40	58·0	56·2
18. 51	30. 45	9. 54	·1156					
19. 10	32. 50	10. 5	·1150					
19. 44	33. 30	10. 26	·1154					
20. 21	38. 30	10. 31	·1158					
20. 57	36. 0	10. 36	·1158					
22. 25	33. 40	10. 43	·1152					
22. 42	36. 20	10. 49	·1158					
23. 0	34. 30	10. 55	·1155					
23. 20	37. 40	11. 10	·1157					
23. 36	36. 40	11. 14	·1153					
	(†)	11. 57	·1157					
		12. 7	·1150					
		12. 16	·1152					
		12. 49	·1146					
		14. 10	·1146					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Nov.22 h m		h m		h m	°	°
		14. 25	·1153					
		14. 44	·1147					
		15. 0	·1152					
		15. 22	·1149					
		15. 26	·1152					
			***					
		17. 54	·1151					
		18. 22	·1156					
		18. 37	·1146					
		19. 0	·1147					
		19. 18	·1142					
		19. 33	·1144					
		20. 0	·1127					
		20. 17	·1123					
		20. 43	·1134					
		21. 7	·1135					
		21. 14	·1124					
		22. 30	·1121					
		22. 52	·1112					
		23. 12	·1115					
		23. 27	·1111					
			(†)					
Nov.23		Nov.23		Nov.23		Nov.23		
	(†)		(†)	1. 40	·00365*	0. 40	59·0	56·4
0. 49	21. 35. 0	0. 56	·1106	3. 40	·00420*	1. 40	59·2	56·4
1. 0	36. 30	1. 21	·1098	9. 40	·00794*	2. 40	59·9	56·7
1. 12	35. 30	2. 40	·1114	21. 46	·01147*	3. 40	60·0	57·0
1. 30	36. 50	3. 25	·1108			4. 40	60·2	57·0
	***	3. 56	·1082			5. 40	60·5	57·2
3. 40	34. 50	4. 20	·1094			6. 40	60·4	57·2
4. 13	28. 0	4. 32	·1096			7. 40	60·2	57·0
4. 45	33. 35	4. 58	·1088			8. 40	60·0	56·8
5. 4	30. 35	5. 12	·1096			9. 40	60·0	57·0
5. 15	31. 20	5. 26	·1093			10. 45	59·5	57·0
5. 42	28. 20	5. 54	·1092			11. 40	59·0	57·0
	***	6. 7	·1084			21. 46	52·8	52·0
6. 0	28. 30	6. 16	·1084					
6. 15	24. 50	6. 29	·1099					
6. 29	27. 30	6. 45	·1090					
6. 43	25. 20	6. 55	·1095					
6. 59	26. 30	7. 3	·1091					
7. 10	25. 45	7. 16	·1092					
7. 15	25. 30	7. 35	·1098					
7. 37	14. 45	7. 42	·1111					
7. 43	17. 55	7. 49	·1098					
8. 13	9. 20	8. 32	·1111					
8. 43	21. 40	8. 35	·1123					
8. 58	18. 30	8. 49	·1105					
9. 15	25. 10	9. 0	·1112					
9. 45	27. 35	9. 11	·1106					
10. 11	25. 30	9. 43	·1121					
10. 44	24. 35	10. 22	·1111					
10. 59	33. 20	10. 44	·1162					
11. 15	26. 30	10. 53	·1140					
11. 29	27. 30	11. 9	·1124					
12. 0	14. 0	11. 26	·1132					
12. 12	16. 20	11. 39	·1117					
12. 30	16. 20	11. 54	·1135					

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

November 23^{d}. 8^{h}. 13^{m}. The Western Declination 21°. 9′. 20″ is correct.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 23		Nov. 23						
h m	° ′ ″	h m		h m		h m	°	°
12. 44	21. 20. 30	12. 7	·1134					
12. 51	19. 50	12. 30	·1135					
13. 33	32. 40	12. 37	·1130					
14. 0	29. 0	12. 57	·1130					
14. 21	28. 30	13. 22	·1120					
14. 54	30. 30	14. 13	·1139					
15. 44	38. 30	14. 49	·1139					
	***	15. 17	·1128					
16. 29	38. 30	15. 37	·1128					
16. 44	37. 15	16. 4	·1136					
17. 0	39. 50	16. 26	·1134					
17. 18	39. 30	16. 49	·1140					
17. 53	35. 30	17. 8	·1140					
	***	17. 32	·1151					
18. 45	40. 30	18. 36	·1149					
19. 25	39. 0	18. 50	·1147					
19. 44	36. 30	19. 22	·1133					
	***		***					
20. 11	37. 0	21. 54	·1148					
20. 25	35. 10		***					
	***	22. 30	·1137					
22. 45	32. 40		***					
23. 25	35. 20	23. 59	·1127					
	***							
23. 59	34. 0							
Nov. 24		Nov. 24		Nov. 24		Nov. 24		
0. 0	21. 34. 0	0. 0	·1127	1. 40	·01162*	1. 40	53 ·9	52 ·6
0. 21	36. 30		***	3. 40	·00736*	3. 40	55 ·0	53 ·5
0. 35	35. 30	0. 24	·1134	9. 43	·00659*	9. 43	52 ·7	51 ·4
0. 51	38. 35		***	21. 44	·00958*	21. 44	44 ·7	45 ·0
1. 44	36. 30	0. 47	·1123					
1. 51	35. 30		***					
2. 29	36. 5	1. 5	·1128					
3. 9	33. 30		***					
3. 28	36. 30	1. 18	·1124					
3. 45	33. 20		***					
3. 54	33. 35	2. 35	·1126					
4. 16	32. 45		***					
4. 33	29. 30	2. 46	·1117					
4. 51	16. 30		***					
5. 5	22. 0	3. 7	·1116					
5. 11	21. 30		***					
5. 40	32. 20	3. 24	·1126					
5. 55	28. 30		***					
6. 26	22. 40	3. 37	·1116					
6. 36	20. 30		***					
6. 56	29. 10	3. 50	·1125					
7. 10	26. 20		***					
7. 21	29. 0	4. 2	·1121					
7. 56	18. 30		***					
8. 10	21. 25	4. 29	·1127					
8. 14	19. 35		***					
9. 13	30. 0	4. 40	·1114					
10. 0	28. 50		***					
10. 34	29. 55	4. 57	·1142					
10. 54	28. 30		***					
11. 12	29. 5	5. 8	·1127					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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. 24		Nov. 24						
h m	° ′ ″	h m		h m		h m	°	°
11. 17	21. 28. 35	5. 35	·1127					
	***		***					
12. 30	32. 30	5. 44	·1111					
13. 15	31. 20		***					
13. 43	32. 0	5. 55	·1120					
14. 16	38. 55		***					
14. 55	33. 30	6. 17	·1113					
17. 23	32. 55		***					
19. 18	33. 20	6. 39	·1123					
20. 28	34. 30		***					
21. 19	33. 30	6. 46	·1135					
	***	7. 23	·1120					
23. 19	36. 20	7. 37	·1122					
	***	7. 45	·1116					
23. 59	35. 40	8. 4	·1123					
		8. 9	·1118					
		8. 37	·1136					
		9. 28	·1141					
		10. 0	·1138					
		10. 30	·1145					
		10. 45	·1162					
		10. 53	·1161					
		11. 6	·1150					
		14. 5	·1146					
			***					
		14. 31	·1159					
			***					
		15. 8	·1152					
			***					
		16. 37	·1164					
			***					
		21. 16	·1159					
			***					
		22. 30	·1142					
			***					
		23. 59	·1141					
Nov. 25		Nov. 25		Nov. 25		Nov. 25		
0. 0	21. 35. 40	0. 0	·1141	1. 40	·00963*	1. 40	47 ·1	46 ·7
1. 27	36. 20	0. 27	·1148	3. 40	·00733*	3. 40	49 ·6	48 ·2
3. 12	34. 50	1. 16	·1141	9. 40	·00149*	9. 40	51 ·5	50 ·5
3. 54	32. 20	2. 22	·1142	21. 40	·00414*	21. 40	47 ·5	47 ·5
4. 0	32. 40	2. 46	·1137					
4. 35	31. 10	3. 5	·1140					
4. 43	31. 50	3. 17	·1134					
4. 57	31. 0	3. 45	·1136					
5. 21	21. 30	3. 51	·1133					
5. 54	31. 20	4. 30	·1136					
	***	4. 51	·1133					
6. 17	31. 30	5. 1	·1121					
8. 31	30. 50	5. 19	·1146					
8. 53	31. 5	5. 33	·1148					
9. 11	30. 30	5. 52	·1134					
9. 54	31. 0	8. 14	·1147					
10. 0	31. 50	8. 30	·1146					
	***	8. 47	·1149					
10. 31	29. 30	9. 9	·1145					
10. 49	32. 30	9. 45	·1144					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 25		Nov. 25						
h m	° ′ ″	h m		h m		h m	°	°
10. 58	21. 32. 40	10. 40	·1160					
11. 12	33. 50	10. 54	·1150					
11. 37	30. 30	12. 42	·1151					
12. 17	25. 20	13. 22	·1147					
12. 54	30. 50	14. 9	·1151					
13. 24	28. 0	14. 29	·1148					
13. 32	29. 10	16. 45	·1156					
14. 22	30. 30	17. 52	·1152					
14. 53	33. 0	18. 47	·1165					
15. 27	31. 45	21. 36	·1144					
16. 17	32. 0	21. 49	·1137					
16. 39	30. 50	23. 59	·1140					
17. 30	32. 45							
18. 10	38. 0							
18. 22	37. 45							
18. 39	38. 20							
19. 40	34. 40							
19. 58	35. 40							
20. 19	34. 40							
20. 29	36. 0							
	***							
21. 55	34. 30							
22. 20	36. 5							
23. 12	34. 30							
	***							
23. 59	35. 30							
Nov. 26		Nov. 26		Nov. 26		Nov. 26		
0. 0	21. 35. 30	0. 0	·1140	1. 40	·00553*	1. 40	48 ·5	47 ·3
0. 15	37. 30		***	3. 40	·00472*	3. 40	50 ·0	48 ·4
1. 13	35. 10	8. 54	·1153	9. 40	·00135*	9. 40	51 ·5	50 ·5
2. 27	34. 20	10. 45	·1147	21. 40	·00234*	21. 40	48 ·5	48 ·0
2. 45	33. 0	11. 50	·1148					
5. 4	30. 30	11. 55	·1156					
5. 25	31. 30	12. 12	·1155					
6. 47	30. 0	12. 21	·1164					
10. 12	30. 10	12. 37	·1162					
11. 34	29. 20	13. 15	·1150					
12. 12	23. 0	13. 39	·1151					
12. 43	25. 20	14. 21	·1144					
13. 9	23. 30	15. 10	·1152					
14. 7	30. 30	16. 22	·1150					
14. 44	30. 45	17. 3	·1158					
14. 52	27. 0	17. 43	·1154					
15. 12	32. 0	18. 25	·1161					
15. 22	31. 30	21. 24	·1149					
15. 29	33. 30	21. 47	·1148					
15. 42	32. 15	22. 22	·1136					
15. 54	33. 0	22. 49	·1137					
16. 15	31. 30	23. 30	·1125					
	***	23. 41	·1131					
18. 44	31. 50	23. 53	·1128					
20. 15	33. 0	23. 59	·1131					
21. 0	32. 30							
21. 27	34. 40							
21. 55	34. 30							
	***							
22. 21	36. 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.
Nov. 26								
h m	° ′ ″	h m		h m		h m	°	°
22. 47	21. 35. 25							
22. 57	36. 30							
23. 59	36. 0							
Nov. 27		Nov. 27		Nov. 27		Nov. 27		
0. 0	21. 36. 0	0. 0	·1131	1. 40	·00239*	1. 40	50 ·7	49 ·2
2. 55	34. 30	2. 22	·1134	3. 40	·00299*	3. 40	53 ·2	51 ·5
3. 21	35. 0	2. 43	·1124	9. 40	·00533*	9. 40	52 ·0	51 ·0
3. 41	33. 50	3. 30	·1126	21. 40	·00978*	21 40	44 ·8	44 ·6
4. 22	32. 55	3. 52	·1134					
4. 41	33. 30	4. 7	·1132					
5. 0	32. 40	5. 30	·1136					
5. 30	33. 45	5. 38	·1134					
5. 46	32. 30	6. 1	·1140					
6. 7	33. 20	6. 23	·1131					
6. 17	32. 30	7. 0	·1136					
6. 43	32. 40	7. 21	·1134					
7. 0	34. 0	7. 56	·1146					
7. 30	31. 30	8. 14	·1148					
	***	8. 23	·1143					
8. 13	31. 0	8. 45	·1145					
8. 31	29. 20	9. 0	·1150					
8. 42	30. 0	9. 9	·1147					
8. 51	29. 20	9. 30	·1150					
9. 0	30. 5	9. 46	·1149					
9. 18	29. 35	10. 5	·1154					
9. 44	31. 30	10. 23	·1152					
10. 12	29. 20	10. 30	·1156					
10. 36	29. 35	10. 46	·1154					
11. 13	26. 0	11. 14	·1161					
12. 46	32. 30	11. 35	·1156					
13. 7	32. 20	14. 23	·1165					
13. 41	33. 0	15. 38	·1162					
14. 48	32. 30	19. 9	·1171					
15. 30	34. 30	19. 55	·1169					
15. 44	33. 0	20. 38	·1173					
16. 10	32. 35	22. 0	·1168					
16. 24	33. 0	22. 15	·1162					
16. 44	32. 0	22. 52	·1157					
19. 11	32. 30	23. 14	·1150					
19. 40	33. 30	23. 39	·1146					
20. 2	32. 40	23. 59	·1154					
21. 11	32. 20							
22. 16	32. 45							
22. 40	33. 30							
22. 59	33. 0							
23. 59	35. 0							
Nov. 28		Nov. 28		Nov. 28		Nov. 28		
0. 0	21. 35. 0	0. 0	·1154	1. 40	·00963*	1. 40	47 ·3	46 ·5
1. 40	36. 25	0. 5	·1149	3. 40	·00659*	3. 40	50 ·0	48 ·8
1. 58	35. 0		***	9. 40	·00147*	9. 40	50 ·4	49 ·2
3. 54	32. 30	1. 39	·1142	23. 20	·00530*	23. 20	47 ·0	46 ·0
4. 12	33. 40	2. 30	·1135					
4. 25	33. 30	4. 0	·1140					
4. 54	34. 30	4. 47	·1138					
5. 40	32. 20	6. 5	·1150					
7. 10	30. 30	7. 34	·1150					
7. 20	31. 20	8. 0	·1145					

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.28		Nov.28						
h m	° ′ ″	h m		h m		h m	°	°
7. 55	21. 28. 50	8. 30	·1146					
8. 53	31. 55	8. 49	·1151					
9. 27	30. 45	9. 33	·1158					
10. 29	31. 0		***					
11. 12	27. 5	12. 44	·1157					
12. 12	32. 15	12. 52	·1162					
12. 51	31. 50	13. 0	·1160					
13. 6	33. 50	13. 17	·1169					
13. 14	33. 10	13. 49	·1160					
13. 24	33. 30	14. 25	·1158					
13. 54	31. 40	14. 44	·1161					
14. 52	32. 45	15. 0	·1161					
17. 9	30. 30	15. 15	·1164					
17. 51	32. 20	15. 30	·1161					
18. 41	31. 10	15. 47	·1164					
23. 59	35. 0	16. 55	·1161					
		17. 9	·1164					
		17. 45	·1162					
		19. 6	·1168					
		20. 37	·1169					
		22. 52	·1162					
			(†)					
Nov.29		Nov.29		Nov.29		Nov.29		
0. 0	21. 35. 0	0. 0	·1151	7. 32	·00411*	7. 32	47 ·0	47 ·0
	***	1. 45	·1145	21. 40	·00161*	12. 40	47 ·2	47 ·2
0. 45	34. 35	4. 45	·1158			13. 40	47 ·2	47 ·2
	***	5. 7	·1150			14. 40	47 ·7	47 ·4
1. 21	36. 10	5. 28	·1152			15. 40	48 ·0	47 ·6
1. 31	35. 5	5. 39	·1159			16. 40	48 ·8	47 ·8
2. 13	34. 0	6. 50	·1162			17. 40	49 ·3	48 ·0
2. 37	34. 35	7. 50	·1161			18. 40	49 ·9	48 ·5
4. 11	32. 30	8. 16	·1163			19. 40	50 ·5	49 ·0
4. 49	32. 0	9. 49	·1152			20. 40	51 ·0	49 ·2
5. 7	30. 0	10. 0	·1156			21. 40	51 ·2	49 ·2
5. 42	29. 45	10. 11	·1158			22. 40	51 ·7	50 ·2
5. 58	32. 5	10. 23	·1155			23. 40	52 ·2	50 ·2
7. 15	30. 30	10. 45	·1160					
8. 10	30. 40	12. 0	·1162					
8. 39	29. 20	12. 11	·1158					
	***	12. 24	·1162					
10. 39	28. 40	12. 43	·1155					
11. 24	30. 5	12. 53	·1160					
12. 25	30. 0	13. 36	·1152					
12. 39	28. 30	13. 48	·1158					
12. 56	29. 0	15. 45	·1150					
13. 26	25. 50	17. 51	·1154					
14. 10	30. 40	18. 7	·1152					
14. 15	28. 45	19. 36	·1158					
15. 30	28. 0	20. 30	·1152					
16. 17	29. 35	21. 0	·1154					
16. 48	29. 5	21. 19	·1149					
19. 30	29. 45	23. 12	·1146					
19. 42	30. 50	23. 59	·1142					
20. 37	30. 0							
22. 21	32. 25							
23. 51	33. 10							
	(†)							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov.30		Nov.30		Nov.30		Nov.30		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 33. 10	0. 0	·1142	1. 40	·00469*	0. 40	52 ·8	50 ·6
1. 30	33. 5	6. 11	·1136	3. 40	·00702*	1. 40	53 ·4	51 ·2
4. 42	31. 50	7. 12	·1141	9. 40	·00963*	2. 40	53 ·7	51 ·4
5. 27	32. 25	10. 45	·1137	21. 45	·01078*	3. 40	54 ·0	51 ·5
6. 0	30. 30	12. 39	·1143			4. 40	54 ·2	51 ·7
11. 39	29. 10	15. 0	·1154			5. 40	54 ·3	51 ·7
14. 42	32. 20	18. 54	·1159			6. 40	54 ·0	51 ·7
14. 57	30. 50	19. 30	·1162			7. 40	54 ·0	51 ·7
15. 16	31. 30	20. 51	·1163			8. 40	54 ·0	52 ·0
20. 25	30. 0	21. 32	·1158			9. 40	54 ·8	51 ·8
22. 4	32. 20	22. 0	·1151			10. 40	54 ·0	51 ·5
22. 58	32. 10	23. 59	·1153			11. 40	53 ·0	51 ·0
	(†)					21. 45	49 ·0	48 ·4
Dec. 1		Dec. 1		Dec. 1		Dec. 1		
0. 0	21. 32. 40	0. 0	·1153	1. 40	·01009*	1. 40	51 ·5	50 ·5
1. 50	34. 5	3. 5	·1155	3. 40	·00733*	3. 40	54 ·0	52 ·0
	***	5. 48	·1166	9. 40	·00345*	9. 40	56 ·0	54 ·0
5. 38	32. 0	7. 52	·1159	21. 40	·00638*	21. 40	52 ·7	52
6. 44	32. 20	8. 30	·1164					
7. 22	31. 20	10. 7	·1162					
7. 38	32. 20	10. 35	·1166					
8. 10	29. 15	11. 6	·1163					
8. 30	31. 0	11. 37	·1166					
10. 56	32. 10	13. 0	·1159					
11. 54	31. 45	13. 21	·1180					
13. 13	29. 55	13. 40	·1167					
13. 32	33. 0	14. 14	·1161					
14. 12	24. 30		***					
15. 15	32. 5	20. 0	·1175					
	***	21. 30	·1170					
18. 22	33. 30	22. 31	·1164					
21. 36	32. 40	22. 44	·1159					
23. 20	34. 40	23. 21	·1159					
	(†)		(†)					
Dec. 2		Dec. 2		Dec. 2		Dec. 2		
	(†)		(†)	1. 40	·00567*	1. 40	55 ·0	53 ·8
0. 28	21. 34. 50	0. 26	·1156	3. 40	·00996*	3. 40	57 ·0	55 ·8
1. 2	35. 0	1. 15	·1160	9. 40	·00587*	9. 40	58 ·4	56 ·2
1. 16	37. 5	3. 0	·1146	21. 43	·01065*	21. 43	54 ·0	52 ·6
	***	3. 56	·1146					
3. 35	37. 30		***					
3. 54	35. 50	4. 39	·1138					
4. 5	36. 0	5. 25	·1149					
4. 21	35. 10	6. 37	·1154					
4. 32	35. 20	7. 35	·1150					
5. 9	33. 30	7. 57	·1133					
6. 22	32. 30	8. 40	·1153					
6. 44	33. 0	9. 24	·1148					
7. 30	34. 30	10. 30	·1154					
7. 52	33. 30		***					
8. 30	26. 45	13. 7	·1154					
8. 54	30. 10	13. 49	·1158					
9. 2	30. 10	14. 15	·1154					
9. 15	32. 0	16. 0	·1161					
9. 40	31. 30	19. 29	·1164					
10. 30	32. 20	21. 30	·1160					
11. 28	31. 50		***					
13. 12	33. 20	23. 59	·1146					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 2	° ′ ″							
h m		h m		h m		h m	°	°
13. 31	21. 32. 20							
15. 35	32. 45							
15. 47	33. 40							
20. 36	32. 30							
22. 53	33. 35							
23. 59	33. 20							
Dec. 3		Dec. 3		Dec. 3		Dec. 3		
0. 0	21. 33. 20	0. 0	·1146	1. 40	·01009*	1. 40	55 ·2	53 ·4
0. 57	34. 5	1. 51	·1141	3. 40	·00855*	3. 40	56 ·5	54 ·7
6. 43	31. 40	2. 22	·1146	9. 43	·00411*	9. 43	57 ·5	55 ·5
8. 13	32. 0	4. 15	·1145	21. 40	·00613*	21. 40	54 ·8	53 ·8
9. 2	31. 0	5. 37	·1152					
9. 45	31. 30	20. 9	·1170					
10. 0	30. 30	21. 23	·1162					
15. 54	34. 0	23. 0	·1146					
19. 18	33. 35		***					
19. 45	34. 0	23. 59	·1142					
22. 4	33. 30							
23. 13	36. 0							
23. 59	36. 30							
Dec. 4		Dec. 4		Dec. 4		Dec. 4		
0. 0	21. 36. 30	0. 0	·1142			1. 40	56 ·6	54 ·8
1. 27	36. 5	1. 44	·1137	4. 0	(†)	3. 40	59 ·0	57 ·6
4. 44	32. 50	4. 17	·1138	6. 42	·01097	9. 40	55 ·0	56 ·0
11. 40	32. 30	4. 37	·1142	7. 36	·01236	21. 40	48 ·7	50 ·7
	***	7. 13	·1147	10. 0	·01302			
12. 41	29. 10		***	12. 56	·01315			
12. 56	31. 0	10. 30	·1160	13. 15	·01288			
13. 42	24. 30		***	15. 40	·01270			
14. 28	33. 50	11. 15	·1154	21. 22	·01261			
	***	11. 29	·1156	23. 53	·01206			
21. 22	33. 20	11. 39	·1153		·01224			
22. 59	36. 5	12. 22	·1161	23. 59	·01140			
	(†)	12. 32	·1156		·01130			
		12. 46	·1170					
		12. 58	·1162					
		13. 5	·1163					
		13. 22	·1158					
		13. 39	·1164					
		14. 17	·1151					
		16. 0	·1167					
		16. 9	·1162					
		16. 15	·1166					
		16. 21	·1172					
		16. 24	·1167					
		17. 0	·1174					
		18. 7	·1174					
		18. 39	·1182					
		19. 5	·1176					
		19. 29	·1180					
		19. 53	·1176					
		21. 40	·1172					
		22. 29	·1159					
		23. 0	·1162					
			(†)					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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. 5	° ′ ″	Dec. 5		Dec. 5		Dec. 5		
h m	(†)	h m	(†)	h m		h m	°	°
1. 27	21. 33. 0	0. 5	·1142	0. 0	·01273	1. 40	52 ·6	53 ·2
3. 52	32. 0	1. 48	·1153	2. 21	·01182	3. 40	55 ·5	55 ·3
5. 11	32. 10	5. 30	·1158	8. 7	·00755	9. 40	55 ·7	55 ·3
5. 45	32. 50	10. 18	·1160	8. 55	·00782	22. 40	51 ·0	52 ·0
13. 52	32. 5	15. 23	·1167	14. 0	·00786			
14. 44	32. 30	19. 45	·1164	20. 38	·00835			
15. 59	32. 0	20. 43	·1164		·01083			
17. 8	32. 0		(†)	23. 59	·00997			
19. 43	34. 0	23. 59	·1163					
	(†)							
22. 40	34. 13*							
23. 59	34. 50							
Dec. 6		Dec. 6		Dec. 6		Dec. 6		
0. 0	21. 34. 50	0. 0	·1163	0. 0	·01000	6. 45	53 ·8	55 ·0
2. 26	35. 20		***	0. 30	·01115	12. 40	55 ·0	55 ·9
3. 33	33. 0	10. 24	·1162	1. 46	·00988	13. 40	55 ·0	56 ·0
4. 43	33. 20	10. 44	·1157	2. 50	·00816	14. 40	55 ·1	56 ·0
5. 39	32. 50	11. 0	·1158	4. 0	·00861	15. 40	55 ·1	56 ·0
9. 45	32. 30	12. 15	·1153	6. 32	·00815	16. 40	55 ·7	56 ·0
10. 6	31. 40	12. 30	·1148		·00991	17. 40	56 ·5	56 ·6
10. 43	32. 30	13. 0	·1146	7. 22	·00983	18. 40	57 ·1	56 ·9
11. 2	31. 50	13. 9	·1142	13. 44:	·01336	19. 40	58 ·0	57 ·4
11. 33	31. 40	14. 30	·1140	23. 45	·01297	20. 40	58 ·8	57 ·8
12. 24	30. 0	15. 11	·1144		(†)	21. 40	59 ·0	58 ·0
12. 45	29. 45	17. 8	·1146			22. 40	59 ·0	58 ·0
13. 11	31. 0	18. 0	·1143			23. 40	59 ·2	58 ·2
13. 35	29. 50	19. 9	·1146					
14. 10	31. 20	21. 0	·1142					
16. 53	31. 40	21. 23	·1150					
17. 15	31. 0	21. 30	·1140					
17. 41	31. 50		***					
19. 55	31. 10	23. 59	·1142					
22. 30	33. 0							
23. 59	34. 40							
Dec. 7		Dec. 7		Dec. 7		Dec. 7		
0. 0	21. 34. 40	0. 0	·1142		(†)	0. 40	59 ·6	58 ·3
0. 51	35. 0		***	1. 0	·00974	1. 40	59 ·8	58 ·4
1. 21:	33. 45	4. 14	·1141	1. 44	·00965	2. 40	60 ·0	58 ·6
1. 59	35. 30	9. 30	·1138		·01097	3. 40	60 ·2	58 ·7
2. 43	33. 0	10. 7	·1145	4. 27	·01037	4. 40	60 ·2	59 ·0
5. 59	32. 10	13. 39	·1145	5. 9	·01073	5. 40	60 ·0	59 ·0
7. 45	33. 0	19. 30	·1168	7. 6	·01083	6. 40	60 ·0	59 ·2
8. 9	32. 20	20. 48	·1166	7. 34	·01138	7. 40	60 ·5	59 ·5
8. 29	32. 50	22. 0	·1160	9. 10	·01134	8. 40	61 ·0	60 ·3
8. 50	32. 20	22. 45	·1151	9. 45	·01175	9. 40	61 ·0	60 ·7
9. 11	32. 30	23. 0	·1154	10. 34	·01156	10. 40	60 ·5	61 ·0
9. 42	30. 30	23. 16	·1151	10. 47	·01198	11. 40	60 ·2	61 ·0
10. 32	32. 40	23. 59	·1152	11. 52	·01200	21. 40	52 ·2	54 ·2
11. 21	30. 40			12. 23	·01249			
11. 45	31. 30			16. 0	·01388			
12. 25	30. 40			22. 30	·01321			
	***			23. 28	·01325			
13. 15	32. 20			23. 59	·01290			
13. 54:	31. 20							
	***							

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

December 4. The time-piece giving motion to the cylinder for register of the Vertical Force was remounted, having been altered to make the cylinder revolve in twenty-four hours instead of twelve as formerly.

Göttingen Mean Solar Time.	Western Declination.
Dec. 7	
h m	° ′ ″
14. 54	21. 32. 50
15. 32	32. 30
16. 11	33. 30
16. 32	32. 40
	***
18. 21	33. 50
18. 41	33. 20
22. 28	32. 45
22. 39	33. 45
22. 49	32. 50
23. 9	34. 20
23. 59	34. 30
Dec. 8	
0. 0	21. 34. 30
0. 30	35. 20
2. 41	34. 20
3. 7	32. 20
4. 10	31. 10
11. 12	30. 30
11. 52	32. 20
13. 2	31. 40
13. 30	30. 0
14. 12	31. 0
15. 56	30. 0
17. 14	32. 0
19. 53	31. 30
22. 14	33. 35
	***
23. 59	33. 30
Dec. 9	
0. 0	21. 33. 30
	***
1. 15	34. 30
3. 36	31. 30
7. 54	31. 55
8. 15	31. 30
8. 51	32. 0
9. 36	31. 30
10. 12	32. 20
10. 36	29. 0
10. 58	31. 30
11. 15	30. 30
11. 41	32. 40
12. 7	31. 40
12. 17	31. 50
13. 29:	29. 40
	***
14. 40	34. 40
15. 25	29. 45
	***
17. 13	32. 20
17. 59	31. 0
18. 9	32. 20
	***
19. 30	32. 20

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
h m	
Dec. 8	
0. 0	·1152
1. 47	·1154
2. 8	·1149
3. 46	·1151
4. 45	·1145
5. 9	·1145
6. 0	·1155
6. 45	·1157
7. 7	·1154
7. 34	·1157
9. 45	·1162
10. 10	·1160
14. 6	·1162
15. 24	·1170
18. 55	·1172
21. 0	·1163
22. 0	·1153
23. 59	·1151
Dec. 9	
0. 0	·1151
1. 30	·1145
2. 7	·1148
3. 30	·1144
7. 57	·1157
10. 10	·1157
10. 14	·1161
10. 37	·1166
10. 53	·1158
11. 41	·1160
12. 7	·1162
12. 35	·1157
14. 24	·1154
15. 0	·1164
15. 9	·1164
15. 18	·1161
16. 56	·1164
18. 23	·1173
19. 52	·1169
20. 45	·1158
20. 57	·1162
21. 45	·1156
22. 17	·1148
23. 59	·1147

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Dec. 8	
0. 0	·01279
1. 54	·01334
2. 30	·01323
5. 10	·01084
7. 35	·00996
9. 26	·00990
14. 49	·01077
21. 0	·01295
	·01263
22. 41	·01280
23. 59	·01275
Dec. 9	
0. 0	·01269
1. 43	·01274
	·00996
3. 38	·00936
5. 54	·00761
7. 10	·00700
10. 7	·00702
	·00856
16. 30	·00913
22. 38	·01064
	(†)

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Dec. 8		
1. 40	53 ·8	54 ·4
3. 40	55 ·4	56 ·0
9. 40	54 ·6	55 ·3
21. 40	51 ·3	52 ·3
Dec. 9		
1. 40	52 ·8	52 ·8
3. 40	54 ·0	53 ·7
9. 40	53 ·2	53 ·4
21. 40	50 ·6	51 ·6

Göttingen Mean Solar Time.	Western Declination.
Dec. 9	
h m	° ′ ″
20. 9	21. 34. 0
	***
22. 14	34. 30
	***
23. 11	36. 40
23. 40	36. 20
23. 59	35. 10
Dec. 10	
0. 0	21. 35. 10
0. 10	34. 30
0. 41	37. 5
	***
3. 28	32. 50
4. 30	33. 45
5. 36	30. 40
6. 0	32. 50
6. 26	32. 20
6. 43	34. 30
7. 0	32. 30
7. 12	33. 5
7. 49	31. 35
8. 40	32. 0
9. 11	28. 40
9. 28	30. 55
9. 51	30. 0
10. 44	32. 50
15. 10	33. 20
15. 29	34. 30
16. 13	32. 50
18. 39	32. 20
20. 14	32. 50
20. 42	33. 50
21. 0	46. 0
21. 5	46. 20
22. 38	48. 0
23. 43	47. 30
23. 59	47. 55
Dec. 11	
0. 0	21. 47. 55
0. 52	50. 50
2. 15	48. 40
2. 27	45. 40
2. 40	46. 50
4. 24	41. 0
6. 7	40. 20
7. 41	41. 50
8. 43	40. 15
10. 22	40. 20
10. 42	41. 10
10. 54	40. 30
11. 55	42. 40
12. 35	41. 50
13. 0	42. 0
13. 21	41. 50

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
h m	
Dec. 10	
0. 0	·1147
0. 6	·1145
0. 22	·1148
0. 45	·1146
0. 58	·1150
1. 6	·1146
2. 17	·1145
2. 33	·1149
2. 40	·1145
3. 16	·1142
3. 38	·1148
3. 56	·1145
4. 10	·1146
4. 21	·1142
4. 47	·1142
5. 38	·1128
5. 49	·1131
6. 14	·1129
6. 23	·1132
6. 47	·1124
7. 6	·1136
7. 15	·1135
7. 45	·1141
10. 0	·1151
	***
15. 37	·1160
15. 49	·1164
18. 15	·1166
20. 15	·1159
20. 50	·1150
21. 6	·1151
21. 22	·1146
23. 59	·1138
Dec. 11	
0. 0	·1138
0. 8	·1141
0. 36	·1135
1. 24	·1136
1. 30	·1139
1. 55	·1141
2. 5	·1136
	***
3. 54	·1135
4. 51	·1142
6. 43	·1144
8. 10	·1151
10. 6	·1154
10. 24	·1162
10. 37	·1160
10. 49	·1162

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Dec. 10	
0. 0	·01054
1. 9	·01020
2. 0	·00975
3. 35	·00754
4. 54	·00744
	·00828
5. 29	·00810
5. 53	·00844
9. 30	·00916
11. 9	·00935
14. 53	·01094
20. 30	·01275
23. 0	·01280
	(†)
Dec. 11	
0. 0	·01269
1. 9	·01271
2. 0	·01216
5. 8	·00835
6. 1	·00797
	·00953
7. 0	·00935
11. 39	·01103
14. 26	·01274
	·01242
23. 59	·01224

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Dec. 10		
1. 40	53 ·2	53 ·5
3. 40	56 ·0	56 ·0
9. 40	55 ·5	55 ·4
21. 40	51 ·3	52 ·6
Dec. 11		
1. 40	53 ·2	54 ·0
3. 40	55 ·0	55 ·5
9. 40	53 ·6	54 ·4
21. 40	49 ·1	51 ·2

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 11		Dec. 11						
h m	° ′ ″	h m		h m		h m	°	°
14. 11	21. 42. 20	11. 7	·1159					
14. 43	43. 55		***					
15. 24	41. 40	14. 10	·1162					
15. 57	41. 0	14. 49	·1169					
16. 12	41. 50	15. 30	·1165					
	***	15. 40	·1167					
17. 43	42. 0	16. 13	·1165					
	***	16. 39	·1168					
18. 30	41. 30	16. 52	·1166					
19. 12	42. 0	17. 16	·1168					
19. 27	41. 30		(†)					
21. 28	40. 50	19. 30	·1172					
22. 14	41. 50	21. 0	·1171					
	(†)		(†)					
		21. 40	·1156*					
			(†)					
Dec. 12		Dec. 12		Dec. 12		Dec. 12		
	(†)		(†)	0. 0	·01115	1. 40	51 ·0	51 ·8
0. 40	21. 37. 30	0. 37	·1144	1. 39	·01098	3. 40	52 ·9	53 ·0
	***	0. 42	·1147	2. 50	·01040	9. 40	52 ·3	52 ·4
1. 28	38. 20	1. 6	·1141	3. 56	·00967	23. 15	49 ·6	52 ·0
	***	1. 12	·1144	4. 37	·00869			
2. 44	34. 30	2. 55	·1147	7. 5	·00716			
	***	3. 29	·1141	10. 10	·00661			
4. 14	37. 45	4. 4	·1148	13. 0	·00654			
4. 45	36. 0	5. 0	·1140	15. 26	·00676			
4. 56	36. 30	6. 56	·1146	23. 59	·00857			
5. 12	36. 15	8. 30	·1145					
5. 21	37. 0	9. 7	·1154					
5. 44	35. 40	9. 30	·1147					
5. 59	36. 0	10. 26	·1153					
6. 29	33. 50	10. 37	·1150					
6. 51	34. 45	11. 0	·1156					
7. 15	32. 30	11. 19	·1153					
7. 56	33. 30	13. 45	·1156					
	***	14. 16	·1164					
8. 52	32. 30	15. 15	·1158					
9. 12	29. 50	18. 22	·1167					
9. 24	32. 0	19. 30	·1167					
9. 45	29. 50	20. 7	·1160					
	***	23. 8	·1160					
12. 32	35. 10		(†)					
13. 13	34. 20							
	***							
14. 5	36. 0							
18. 30	34. 0							
18. 50	34. 45							
19. 17	33. 0							
19. 52	34. 55							
20. 53	33. 40							
23. 21	37. 30							
23. 59	37. 0							
Dec. 13		Dec. 13		Dec. 13		Dec. 13		
0. 0	21. 37. 0	0. 0	·1154	0. 0	·00869	7. 40	49 ·0	51 ·5
1. 11	38. 5	3. 15	·1161	2. 39	·00917	12. 40	49 ·0	50 ·2
3. 15	34. 50	3. 30	·1156	9. 50	·00881	13. 40	49 ·0	50 ·2
3. 40	33. 20	4. 19	·1164	15. 29	·00900	14. 40	49 ·4	50 ·6
4. 2	34. 0	7. 8	·1164	18. 7	·00843	15. 40	50 ·0	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.
Dec. 13		Dec. 13		Dec. 13		Dec. 13		
h m	° ′ ″	h m		h m		h m	°	°
10. 52	21. 33. 30	8. 6	·1158	22. 51	·00667	16. 40	50 ·2	51 ·2
16. 23	35. 30	11. 49	·1164		·00821	17. 40	50 ·7	51 ·4
16. 57	34. 10	12. 30	·1158	23. 59	·00819	18. 40	51 ·0	51 ·6
17. 45	34. 40	13. 26	·1161			19. 40	51 ·5	51 ·8
18. 51	32. 50	16. 6	·1152			20. 40	51 ·9	52 ·0
21. 59	32. 30	21. 9	·1158			21. 40	51 ·9	51 ·7
23. 59	36. 10	22. 22	·1149			22. 40	52 ·3	51 ·9
		23. 59	·1137			23. 40	52 ·0	52 ·2
Dec. 14		Dec. 14		Dec. 14		Dec. 14		
0. 0	21. 36. 10	0. 0	·1137	0. 0	·00830	0. 40	52 ·4	52 ·5
2. 30	37. 20		***	1. 10	·00844	1. 40	52 ·9	52 ·5
2. 58	36. 10	7. 35	·1144	1. 39	·00865	2. 40	53 ·5	52 ·5
3. 10	36. 50	8. 28	·1140		·00941	3. 40	53 ·9	52 ·9
5. 8	33. 20	8. 49	·1149	2. 23	·00954	4. 40	54 ·0	53 ·0
8. 41	32. 0	9. 5	·1143		·00850	5. 40	54 ·0	53 ·4
8. 55	27. 55	9. 45	·1145	5. 4	·00915	6. 40	54 ·3	53 ·5
9. 40	32. 30	9. 56	·1152	5. 23	·00945	7. 40	54 ·1	53 ·3
10. 11	32. 40	10. 30	·1143	6. 10	·00942	8. 40	54 ·1	53 ·4
10. 41	31. 45	17. 15	·1163	8. 35	·01016	9. 40	54 ·0	53 ·0
14. 4	34. 10	20. 4	·1167	16. 30	·01136	10. 40	54 ·0	53 ·0
14. 27	35. 50		***	23. 59	·01169	11. 40	54 ·0	53 ·5
15. 9	33. 30	23. 0	·1150			21. 40	51 ·0	51 ·5
18. 53	33. 30	23. 49	·1150					
21. 12	30. 30		(†)					
	***							
23. 47	32. 40							
	(†)							
Dec. 15		Dec. 15		Dec. 15		Dec. 15		
	(†)		(†)	0. 0	·01160	1. 40	53 ·0	53 ·2
0. 54	21. 33. 30	0. 21	·1144	1. 10	·00990	3. 40	55 ·0	54 ·4
	***	2. 1	·1147	4. 24	·00647	9. 40	55 ·2	54 ·3
2. 57	33. 30	3. 6	·1154	8. 12	·00581	21. 40	52 ·7	53 ·7
6. 0	31. 0	6. 0	·1152	12. 0	·00615			
	***	8. 24	·1147	17. 30	·00736			
8. 44	31. 50	10. 30	·1156	23. 59	·00874			
11. 0	30. 30	10. 51	·1155					
11. 37	31. 30	11. 9	·1159					
12. 17	29. 20	12. 30	·1156					
13. 10	32. 15	12. 53	·1159					
19. 41	31. 30	18. 30	·1169					
20. 42	30. 30		***					
20. 50	31. 40	20. 45	·1165					
21. 47	30. 5		***					
22. 7	31. 30	23. 22	·1148					
22. 42	31. 5		***					
23. 9	32. 40	23. 59	·1152					
23. 27	32. 0							
23. 40	32. 50							
23. 51	32. 20							
23. 59	33. 30							
Dec. 16		Dec. 16		Dec. 16		Dec. 16		
0. 0	21. 33. 30	0. 0	·1152	0. 0	·00870	1. 40	54 ·2	54 ·2
0. 9	32. 40	3. 32	·1151	0. 35	·00857	3. 40	56 ·2	57 ·5
1. 32	33. 30	4. 0	·1147	2. 10	·00791	9. 40	56 ·5	56 ·5
4. 42	32. 40	5. 17	·1155	4. 13	·00628	21. 40	54 ·0	54 ·5
5. 27	33. 30	5. 41	·1154		·00656			
6. 7	32. 45	5. 56	·1149	6. 45	·00674			

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

December 10d. 21h. It is supposed that from this time till 12d. 0h. the Declination Magnet was in some way impeded in its motion; the results must therefore be looked upon with suspicion. About Dec. 12d. 0h. the Magnet and its suspension were examined and cleaned.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 16		Dec. 16		Dec. 16				
h m	° ′ ″	h m		h m		h m	°	°
6. 55	21. 34. 0	6. 49	·1150	14. 10	·00654			
7. 28	32. 15	7. 11	·1144		***			
7. 58	31. 30	7. 24	·1149	15. 24	·00543			
8. 27	28. 0	7. 43	·1149		***			
8. 45	31. 0	8. 0	·1154	16. 0	·00578			
9. 14	31. 50	8. 16	·1154		***			
9. 42	33. 0	8. 30	·1162	16. 13	·00544			
10. 12	32. 0	9. 0	·1152		***			
10. 30	33. 40	9. 21	·1157	16. 30	·00456			
10. 51	32. 30	9. 34	·1148		***			
11. 37	32. 20		***	16. 57	·00554			
11. 47	33. 5	10. 0	·1155		***			
12. 10	32. 10	10. 5	·1154	17. 24	·00579			
12. 40	32. 50	10. 27	·1158		***			
12. 45	34. 45	10. 35	·1152	17. 31	·00619			
12. 58	33. 55	11. 8	·1158		***			
14. 12	57. 50		***	18. 0	·00471			
14. 33	48. 15	12. 15	·1156		***			
14. 44	50. 0		***	19. 15	·00637			
14. 56	46. 0	13. 9	·1149		***			
15. 12	59. 0		***	19. 26	·00680			
15. 15	21. 54. 5	13. 24	·1166		***			
15. 30	22. 0. 10		***	19. 37	·00672			
16. 0	21. 20. 0	13. 45	·1222		***			
16. 20	34. 0		***	20. 5	:00685			
16. 32	32. 20	13. 54	·1203		***			
16. 43	49. 30		***	20. 21	·00773			
17. 10	31. 0	14. 3	·1227		***			
	***		***	20. 39	·00733			
18. 3	22. 0	14. 56	·1142		***			
18. 12	26. 0		***	21. 9	·00878			
18. 17	21. 40	15. 23	·1176		***			
18. 30	39. 0		***	23. 6	·00865			
18. 45	28. 45	15. 39	·1080		***			
	***		***	23. 59	·01096			
19. 12	20. 0	16. 5	·1152					
19. 15	23. 0		***					
19. 26	18. 0	16. 10	·1124					
19. 37	21. 36. 50		***					
19. 56	20. 59. 30	16. 16	·1132					
20. 27	21. 39. 30		***					
20. 51	29. 5	16. 25	·1116					
21. 11	34. 0		***					
21. 21	27. 0	16. 35	·1120					
21. 26	32. 20		***					
21. 45	15. 50	16. 37	·1142					
21. 47	17. 30		***					
21. 55	8. 20	17. 0	·0984					
22. 7	31. 20		***					
22. 21	14. 0	17. 40	·1124					
22. 29	23. 0		***					
22. 31	19. 20	18. 7	·1142					
22. 39	28. 15		***					
22. 45	8. 30	18. 21	·1138					
22. 51	24. 0		***					
22. 57	12. 0	18. 30	·1115					
23. 23	29. 45		***					
23. 25	28. 0	18. 41	·1116					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 16		Dec. 16						
h m	° ′ ″	h m		h m		h m	°	°
23. 27	21. 32. 5	19. 5	·1036					
23. 29	26. 0		***					
23. 30	35. 20	19. 7	·1060					
23. 43	19. 0		***					
23. 45	30. 10	19. 10	·1031					
23. 52	18. 0		***					
23. 55	34. 0	19. 24	·1122					
23. 59	30. 0		***					
		19. 30.	·1001					
			***					
		19. 41	·1028					
			***					
		19. 45	·1010					
			***					
		20. 10	·1153					
			***					
		20. 20	·1130					
			***					
		20. 45	·1112					
			***					
		20. 53	·1136					
			***					
		21. 9	·1132					
			***					
		21. 15	·1105					
			***					
		21. 23	·1147					
			***					
		21. 30	·1112					
			***					
		21. 37	·1130					
			***					
		21. 43	·1120					
			***					
		21. 45	·1128					
			***					
		21. 48	·1062					
			***					
		21. 50	·1076					
			***					
		21. 51	·1016					
			***					
		21. 53	·1064					
			***					
		21 55	·1012					
			***					
		21. 57	·1081					
			***					
		22. 0	·1030					
			***					
		22. 2	·1065					
			***					
		22. 7	·1025					
			***					
		22. 8	·1065					
			***					
		22. 9	·1026					
			***					

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	° ′ ″	Dec. 16 h m		h m		h m	°	°
		22. 13	·1070 ***					
		22. 16	·0975 ***					
		22. 22	·1093 ***					
		22. 28	·1061 ***					
		22. 35	·1092 ***					
		22. 44	·1035 ***					
		22. 49	·1111 ***					
		22. 56	·1060 ***					
		23. 7	·1050 ***					
		23. 14	·1075 ***					
		23. 16	·1071 ***					
		23. 33	·1198 ***					
		23. 38	·1182 ***					
		23. 40	·1237 ***					
		23. 59	·1132					
Dec. 17		Dec. 17		Dec. 17		Dec. 17		
	(†)		(†)	0. 0	·01130	1. 40	56 ·5	56 ·3
1. 14	21. 19. 50	1. 23	·1122 ***	1. 0	·01255 ***	3. 40	58 ·0	58 ·0
1. 27	37. 30					9. 40	59 ·0	59 ·0
1. 32	32. 20	1. 29	·1108 ***	1. 15	·01220 ***	21. 46	56 ·0	56 ·2
1. 37	38. 0							
1. 43	31. 20	1. 31	·1142 ***	1. 25	·01076 ***			
1. 45	39. 0							
1. 57	24. 0	1. 36	·1096 ***	1. 32	·01120 ***			
2. 30	38. 40							
2. 44	30. 0	1. 45	·1133 ***	1. 41	·01073 ***			
2. 57	45. 0							
3. 10	33. 20	1. 52	·1090 ***	2. 7	·01079 ***			
3. 13	38. 45							
3. 16	28. 15	2. 0	·1062 ***	2. 36	·00980 ***			
3. 26	34. 30							
3. 33	35. 50	2. 7	·1097 ***	2. 48	·01029 ***			
3. 41	33. 0							
3. 54	31. 50	2. 34	·1145 ***	3. 45	·00974 ***			
4. 15	51. 15							
4. 27	33. 20	2. 39	·1134 ***	3. 51	·01020 ***			
4. 40	41. 50 ***	2. 45	·1134 ***	4. 0	·01016			
5. 10	27. 50			4. 7	·01115			
5. 21	33. 20	2. 54	·1112 ***	4. 24	·01108			
5. 39	29. 20			4. 39	·01155			
5. 43	31. 0	3. 3	·1116 ***	4. 54	·01081			
5. 58	39. 50			5. 0	·01114			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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. 17 h m	° ′ ″	Dec. 17 h m		Dec. 17 h m		h m	°	°
6. 2	21. 34. 0	3. 9	·1091 ***	5. 22	·01022			
6. 11	35. 50			5. 53	·01020			
6. 29	25. 20	3. 45	·1102 ***	6. 10	·01196			
6. 45	37. 20			6. 39	·01061			
6. 57	22. 0	3. 53	·1095 ***	6. 53	·01067			
7. 8	35. 50			7. 21	·01000			
7. 15	29. 30	4. 9	·1166 ***	7. 54	·01016			
7. 25	34. 35			8. 24	·00947			
7. 39	29. 0	4. 30	·1082 ***	8. 42	·01019			
7. 43	37. 50			9. 9	·00920			
8. 11	30. 30	4. 34	·1094 ***	9. 30	·00871			
8. 20	34. 0			11. 54	·00829			
8. 36	30. 0	4. 38	·1088 ***	12. 58	·00859			
8. 48	14. 10			13. 10	·00825			
8. 54	22. 10	4. 46	·1093 ***	14. 21	·00890			
9. 10	10. 5			15. 24	·00873			
9. 29	27. 20	4. 50	·1086 ***	23. 59	·01084			
9. 39	17. 50							
9. 54	26. 5	4. 53	·1104 ***					
9. 58	25. 5							
10. 6	28. 40	5. 7	·1059 ***					
10. 11	27. 0							
10. 22	32. 45	5. 15	·1091 ***					
10. 34	29. 10							
10. 44	30. 10 ***	5. 23	·1091 ***					
11. 13	27. 55	5. 30	·1083 ***					
11. 21	29. 30							
11. 30	28. 10	5. 48	·1105 ***					
11. 40	29. 30							
11. 48	28. 30	5. 53	·1128 ***					
12. 7	30. 0							
12. 18	26. 30 ***	6. 1	·1102 ***					
12. 49	26. 0	6. 7	·1110 ***					
13. 6	32. 45							
13. 24	27. 20	6. 15	·1124 ***					
13. 37	28. 10							
14. 9	26. 30	6. 24	·1094 ***					
14. 27	32. 50							
14. 39	32. 0	6. 35	·1118 ***					
14. 44	42. 0							
14. 58	35. 30	6. 38	·1102 ***					
15. 14	37. 20							
15. 30	31. 0	6. 45	·1108 ***					
15. 59	32. 20							
16. 5	31. 20	6. 51	·1093 ***					
16. 12	32. 5							
16. 25	30. 50	7. 0	·1102 ***					
16. 37	32. 50							
16. 58	31. 20	7. 6	·1122 ***					
17. 25	29. 30							
17. 37	32. 0	7. 14	·1094 ***					
17. 44	31. 0							
18. 7	32. 30 ***	7. 22	·1107 ***					
18. 42	32. 30 ***	7. 37	·1084 ***					

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. 17		Dec. 17						
h m	° ′ ″	h m		h m		h m	°	°
19. 51	21. 34. 50 ***	7. 45	·1113 ***					
21. 20	32. 40 ***	7. 53	·1096 ***					
23. 59	36. 20	8. 20	·1105 ***					
		8. 23	·1084 ***					
		8. 30	·1102 ***					
		8. 39	·1095 ***					
		8. 52	·1121 ***					
		9. 3	·1098 ***					
		9. 7	·1112 ***					
		9. 22	·1124 ***					
		9. 30	·1102 ***					
		9. 53	·1126 ***					
		10. 4	·1092 ***					
		10. 8	·1106 ***					
		10. 18	·1110 ***					
		10. 25	·1105 ***					
		10. 37	·1118 ***					
		10. 44	·1100 ***					
		11. 0	·1094 ***					
		11. 10	·1104 ***					
		11. 24	·1105 ***					
		11. 30	·1100 ***					
		11. 36	·1105 ***					
		11. 47	·1099 ***					
		11. 58	·1117 ***					
		12. 8	·1099 ***					
		12. 15	·1100 ***					
		12. 19	·1104 ***					
		12. 25	·1097 ***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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. 17 h m		h m		h m	°	°
		12. 42	·1103 ***					
		12. 53	·1124 ***					
		13. 5	·1095 ***					
		13. 24	·1103 ***					
		13. 30	·1109 ***					
		14. 8	·1109 ***					
		14. 16	·1107 ***					
		14. 34	·1093 ***					
		14. 39	·1118 ***					
		14. 49	·1095 ***					
		14. 56	·1098 ***					
		15. 2	·1106 ***					
		15. 23	·1095 ***					
		15. 28	·1104 ***					
		15. 39	·1112 ***					
		16. 7	·1106 ***					
		16. 36	·1112 ***					
		17. 17	·1107 ***					
		17. 40	·1117 ***					
		19. 7	·1114 ***					
		19. 51	·1118 ***					
		21. 48	·1106 ***					
		21. 57	·1114 ***					
		22. 54	·1102 ***					
		23. 43	·1098 ***					
		23. 59	·1101					
Dec. 18		Dec. 18		Dec. 18		Dec. 18		
0. 0	21. 36. 20 ***	0. 0	·1101 ***	0. 0	·01082	1. 40	57·5	56·5
				0. 40	·01080	3. 40	59·2	60·0
2. 7	37. 10	0. 12	·1102 ***	3. 45	·00976	9. 40	57·2	56·2
2. 27	33. 20				·01160	21. 40	52·0	52·8
2. 33	36. 10	0. 23	·1111 ***	4. 37	·01157			
2. 44	34. 30			11. 0	·01375			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 18		Dec. 18		Dec. 18				
h m	° ′ ″	h m		h m		h m	°	°
2. 57	21. 35. 30	0. 29	·1106	14. 54	·01437			
3. 2	34. 40		***	15. 40	·01404			
3. 10	36. 30	1. 37	·1101	22. 55	·01355			
3. 34	34. 0		***	23. 59	·01367			
3. 44	34. 0	3. 7	·1106					
4. 0	32. 30		***					
4. 17	32. 30	3. 15	·1116					
4. 32	33. 30		***					
5. 40	31. 30	3. 43	·1114					
7. 45	32. 20		***					
10. 29	31. 40	3. 54	·1116					
	***		***					
13. 44	32. 20	4. 3	·1106					
14. 14	38. 20		***					
14. 30	37. 40	5. 45	·1109					
14. 43	34. 20		***					
	***	10. 0	·1126					
15. 25	33. 20		***					
15. 48	31. 40	10. 24	·1123					
16. 0	33. 20		***					
	***	14. 37	·1132					
18. 29	32. 50		***					
18. 41	33. 20	14. 49	·1136					
19. 44	33. 20		***					
19. 53	32. 55	14. 53	·1133					
20. 7	33. 30		***					
20. 16	33. 0	15. 0	·1140					
21. 12	33. 55		***					
21. 42	32. 20	15. 7	·1140					
23. 59	35. 30		***					
		15. 13	·1134					
			***					
		16. 56	·1132					
			***					
		17. 1	·1138					
			***					
		17. 8	·1131					
			***					
		17. 14	·1136					
			***					
		18. 0	·1140					
			***					
		20. 51	·1141					
			***					
		21. 0	·1134					
			***					
		21. 15	·1138					
			***					
		21. 50	·1130					
			***					
		22. 6	·1134					
			***					
		23. 0	·1122					
			***					
		23. 59	·1122					
Dec. 19		Dec. 19		Dec. 19		Dec. 19		
0. 0	21. 35. 30	0. 0	·1122	0. 0	·01360	1. 40	53 ·0	53 ·3
	***		***	1. 53	·01354	3. 40	55 ·0	55 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 19		Dec. 19		Dec. 19		Dec. 19		
h m	° ′ ″	h m		h m		h m	°	°
3. 42	21. 33. 30	0. 30	·1124	2. 40	·01315	9. 40	52 ·4	53 ·c
	***	1. 40	·1126*	5. 4	·01069	23. 15	44 ·8	46 ·5
4. 46	31. 0	2. 26	·1130	7. 10	·00996			
5. 14	32. 0	2. 34	·1126	8. 30	·01003			
5. 30	31. 10	2. 51	·1133	13. 9	{·01317			
6. 42	32. 0	3. 0	·1126		{·01278			
7. 0	32. 40	3. 31	·1134	20. 26	·01196			
7. 30	30. 5	3. 40	·1126	23. 26	·01198			
8. 12	32. 40	4. 0	·1130		(†)			
9. 17	30. 50	4. 6	·1138					
9. 40	32. 0	4. 9	·1134					
14. 42	33. 20	4. 19	·1138					
17. 49	33. 30	4. 42	·1129					
18. 15	35. 10	4. 54	·1136					
18. 39	32. 30	5. 0	·1132					
19. 7	33. 30	6. 43	·1140					
21. 20	33. 40	7. 0	·1136					
21. 42	32. 20	7. 41	·1146					
21. 58	33. 30	9. 40	·1137					
22. 30	33. 0	12. 15	·1147					
22. 52	33. 50		***					
23. 30	33. 50	20. 11	·1162					
			***					
		21. 8	·1156					
		21. 17	·1161					
		21. 40	·1157					
		21. 54	·1161					
		22. 49	·1149					
		23. 24	·1150					
			(†)					
Dec. 20		Dec. 20		Dec. 20		Dec. 20		
0. 0	21. 34. 30		(†)	6. 48	·00850*	6. 46	47 ·5	49 ·5
2. 11	37. 20	0. 24	·1151	21. 40	·00517*	12. 40	47 ·8	49 ·3
2. 30	36. 5	1. 7	·1148			13. 40	48 ·0	49 ·2
3. 5	36. 0	1. 39	·1158			14. 40	48 ·0	49 ·2
3. 15	36. 30	2. 0	·1157			15. 40	48 ·2	49 ·3
3. 36	35. 30	2. 30	·1165			16. 40	48 ·5	49 ·6
3. 53	38. 0	2. 54	·1160			17. 40	48 ·8	50 ·0
4. 12	36. 20	3. 11	·1163			18. 40	50 ·0	50 ·4
4. 26	37. 45	3. 36	·1160			19. 40	50 ·7	50 ·8
4. 45	34. 30	3. 47	·1162			20. 40	51 ·2	51 ·6
5. 23	35. 5	3. 53	·1154			21. 40	52 ·2	52 ·2
5. 40	33. 20	4. 17	·1154			22. 40	52 ·6	52 ·8
6. 13	34. 20	4. 22	·1158			23. 40	53 ·9	53 ·2
6. 25	32. 40	4. 35	·1154					
8. 52	31. 20	4. 41	·1157					
10. 41	30. 50	5. 0	·1152					
10. 57	29. 50	5. 26	·1157					
11. 24	30. 30	5. 35	·1170					
12. 43	29. 30	5. 49	·1165					
13. 10	28. 30	5. 54	·1157					
13. 29	30. 30	6. 15	·1157					
14. 13	31. 20	6. 34	·1161					
14. 29	32. 40	6. 50	·1157					
	***	10. 45	·1156					
15. 45	32. 45	10. 54	·1161					
16. 7	32. 0	11. 22	·1154					
17. 15	31. 10	12. 7	·1156					

For the Horizontal and Vertical Forces, increasing readings denote increasing force

December 20. Vertical Force. There was no Photographic Trace of the movements of the Vertical Force Magnet.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 20		Dec. 20						
h m	° ′ ″	h m		h m		h m	°	°
17. 36	21. 32. 20	12. 23	·1150					
18. 21	32. 40	12. 42	·1161					
18. 45	31. 10	13. 40	·1134					
18. 56	31. 55	14. 36	·1144					
20. 11	30. 0	14. 52	·1138					
20. 22	30. 50	15. 26	·1138					
20. 40	29. 50	16. 0	·1132					
22. 40	34. 30	16. 45	·1135					
23. 18	34. 30	18. 12	·1143					
	(†)	18. 46	·1136					
		19. 10	·1142					
		20. 35	·1138					
		20. 48	·1134					
		20. 53	·1138					
		21. 51	·1128					
		23. 30	·1130					
			(†)					
Dec. 21		Dec. 21		Dec. 21		Dec. 21		
	(†)		(†)		(†)			
1. 39	21. 34. 30	1. 0	·1126	0. 55	·00640	0. 40	54 ·5	53 ·6
	***	1. 53	·1130	1. 40	·00662	1. 40	55 ·2	54 ·4
3. 23	33. 50	3. 6	·1128		·00996	2. 40	56 ·2	55 ·5
	***	3. 42	·1140	2. 34	·00953	3. 40	57 ·5	56 ·2
3. 35	34. 45	4. 11	·1131		·01039	4. 40	57 ·6	56 ·6
	***	4. 30	·1135	5. 9	·00801	5. 40	58 ·0	57 ·1
6. 11	33. 30	4. 50	·1129	10. 15	·00794	6. 40	58 ·4	57 ·3
6. 33	34. 20	5. 28	·1134	14. 54	·00780	7. 40	59 ·0	57 ·6
7. 10	34. 0	6. 10	·1131	15. 21	·00844	8. 40	59 ·3	57 ·8
8. 7	30. 30	6. 52	·1134	19. 14	·00902	9. 40	59 ·4	57 ·8
8. 19	32. 0	7. 32	·1126	23. 59	·01160	10. 40	59 ·0	58 ·0
8. 44	32. 0	8. 9	·1129			11. 40	59 ·0	57 ·8
9. 15	30. 40	8. 24	·1124			21. 47	56 ·2	55 ·4
10. 25	29. 50	9. 52	·1133					
10. 42	31. 20	11. 0	·1126					
11. 11	29. 50		***					
	***	21. 24	·1146					
16. 12	32. 20	23. 35	·1131					
22. 50	32. 30	23. 59	·1132					
23. 43	34. 20							
23. 59	33. 45							
Dec. 22		Dec. 22		Dec. 22		Dec. 22		
0. 0	21. 33. 45	0. 0	·1132	0. 0	·01180	1. 40	57 ·0	56 ·0
0. 30	33. 30		***	1. 30	·01217	3. 40	57 ·6	56 ·5
1. 35	34. 45	0. 51	·1130	4. 7	·01106	9. 40	58 ·0	57 ·5
5. 4	31. 40		***	6. 30	·00954	21. 48	56 ·0	56 ·4
6. 15	31. 20	2. 37	·1138	9. 49:	·00872			
6. 28	31. 45		***	19. 53:	·00840			
7. 5	31. 20	3. 24	·1136	23. 59	·00892			
7. 45	28. 0		***					
8. 40	30. 5	5. 0	·1145					
9. 36	30. 30		***					
9. 52	29. 0	7. 43	·1140					
10. 39	29. 5		***					
10. 48	30. 15	8. 6	·1144					
12. 13	28. 40		***					
12. 41	29. 0	9. 38	·1136					
13. 11	28. 20		***					
13. 41	31. 30	10. 21	·1143					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 22		Dec. 22						
h m	° ′ ″	h m		h m		h m	°	°
13. 57	21. 30. 30	10. 37	·1148					
	***		***					
15. 11	31. 50	10. 54	·1141					
15. 20	32. 50		***					
17. 11	31. 45	11. 6	·1144					
	***		***					
21. 8	31. 50	11. 15	·1141					
21. 50	38. 50		***					
22. 0	38. 20	11. 46	·1146					
22. 17	41. 20		***					
23. 41	41. 25	12. 9	·1142					
23. 59	38. 30		***					
		12. 38	·1145					
			***					
		12. 52	·1142					
			***					
		16. 30	·1143					
		19. 57	·1155					
		20. 15	·1148					
		20. 44	·1149					
		21. 24	·1139					
		21. 48	·1141					
		22. 30	·1122					
		23. 6	·1130					
		23. 59	·1128					
Dec. 23		Dec. 23		Dec. 23		Dec. 23		
0. 0	21. 38. 25	0. 0	·1128	0. 0	·00890	1. 40	58 ·8	57 ·8
2. 10	29. 10	0. 11	·1130	1. 30	·00860	3. 40	60 ·3	58 ·7
2. 36	30. 30	0. 30	·1124	1. 42	·00862	9. 44	59 ·4	58 ·7
2. 45	29. 50	2. 24	·1133		·01060	21. 40	55 ·0	55 ·7
3. 44	31. 10	4. 0	·1122	2. 30	·01042			
4. 10	32. 45	4. 21	·1102	4. 9	·01214			
4. 32	31. 15	4. 51	·1106	6. 0	·01279			
4. 59	26. 50	5. 30	·1122	6. 46	·01365			
5. 19	29. 0	5. 41	·1119	7. 51	·01377			
5. 28	28. 40	5. 47	·1124	8. 20	·01421			
5. 39	30. 20	5. 52	·1118	12. 38	·01519			
5. 48	29. 40	6. 13	·1121	13. 9	·01482			
6. 7	29. 50	6. 37	·1102	18. 45	·01430			
6. 25	31. 30	7. 2	·1126	23. 34	·01467			
6. 58	22. 30	7. 10	·1126		(†)			
7. 9	26. 50	7. 21	·1118					
7. 25	18. 0	7. 29	·1133					
7. 30	19. 0	7. 31	·1131					
7. 40	18. 5	7. 45	·1131					
7. 53	22. 50	8. 0	·1112					
8. 10	16. 50	8. 20	·1111					
8. 22	17. 0	8. 30	·1120					
8. 47	24. 20	9. 14	·1113					
9. 13	21. 30	9. 35	·1126					
10. 28	22. 30	10. 15	·1121					
10. 43	23. 25	10. 37	·1126					
11. 0	22. 20	10. 59	·1123					
11. 21	24. 5	11. 10	·1127					
12. 10	22. 0	11. 29	·1130					
13. 5	24. 40	11. 54	·1120					
13. 14	24. 10	12. 7	·1121					
14. 14	28. 15	12. 26	·1128					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 23		Dec. 23						
h m	° ′ ″	h m		h m		h m	°	°
14. 41	21. 28. 0	12. 42	·1144					
15. 30	29. 30	13. 5	·1131					
16. 30	21. 50	13. 28	·1129					
17. 44	28. 50	14. 6	·1134					
18. 25	27. 0	14. 13	·1132					
19. 52	33. 0	14. 53	·1138					
20. 45	33. 0	15. 15	·1135					
21. 27	30. 50	16. 14	·1152					
21. 54	30. 30	17. 30	·1146					
22. 31	32. 40	18. 36	·1157					
23. 9	32. 40	19. 30	·1144					
23. 29	33. 50	20. 0	·1145					
	(†)	21. 5	·1138					
		22. 0	·1123					
		23. 39	·1120					
			(†)					
Dec. 24		Dec. 24		Dec. 24		Dec. 24		
	(†)		(†)	0. 0	·01427	1. 40	56·3	56·4
0. 28	21. 39. 10	0. 23	·1120	3. 0	·01407	3. 40	59·0	57·8
1. 24	40. 50	1. 30	·1119	5. 15	·01234	9. 40	57·0	56·4
1. 41	40. 20	2. 0	·1123		·01376	23. 5	53·5	53·8
2. 12	41. 10	2. 27	·1118	6. 12	·01353			
3. 25	38. 50	3. 37	·1114	7. 39	·01419			
3. 43	37. 20	8. 24	·1130	10. 14	·01494			
4. 3	36. 50	10. 30	·1126		·01460			
4. 26	35. 10	11. 22	·1134	15. 40	·01408			
5. 12	33. 50	12. 0	·1132	23. 59	·01409			
5. 40	34. 0	13. 3	·1137					
7. 10	30. 30	13. 39	·1136					
8. 23	31. 10	14. 19	·1145					
8. 46	30. 30	15. 26	·1141					
9. 25	30. 45	17. 55	·1143					
10. 43	29. 40	18. 17	·1149					
11. 15	31. 10	18. 42	·1147					
12. 40	31. 5	19. 25	·1155					
13. 39	32. 40	23. 26	·1143					
13. 59	31. 40	23. 59	·1144					
14. 17	31. 45							
14. 37	29. 45							
16. 13	32. 20							
16. 37	31. 45							
17. 1	32. 10							
17. 37	34. 40							
17. 58	34. 0							
18. 9	34 30							
18. 27	33. 15							
19. 12	35. 15							
19. 35	34. 35							
19. 55	34. 40							
20. 13	33. 45							
22. 43	34. 20							
23. 30	36. 50							
23. 59	36. 20							
Dec. 25		Dec. 25		Dec. 25		Dec. 25		
0. 0	21. 36. 0	0. 0	·1142	0. 0	·01400	10. 18	52·2	53·8
0. 30	36. 0	0. 27	·1136	0. 15	·01396	21. 40	47·0	48·4
0. 49	37. 50	4. 48	·1141	2. 46	·01412			
1. 30	35. 0	5. 29	·1148	6. 20	·01281			
2. 29	35. 50	5. 50	·1146	9. 5	·01274			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 25		Dec. 25		Dec. 25				
h m	° ′ ″	h m		h m		h m	°	°
2. 52	21. 34. 50	10. 18	·1151	12. 41	·01402			
3. 18	34. 50	10. 57	·1146		·01354			
4. 40	32. 45	11. 56	·1152	18. 35	·01267			
4. 53	32. 40	15. 20	·1154	23. 59	·01200			
5. 33	31. 0	18. 17	·1163					
6. 0	32. 0	19. 10	·1160					
8. 29	31. 30	22. 48	·1144					
8. 50	30. 30	23. 0	·1140					
9. 48	31. 10	23. 59	·1144					
10. 2	30. 30							
10. 9	31. 20							
10. 24	30. 50							
11. 35	33. 0							
12. 4	33. 0							
12. 31	33. 50							
14. 9	33. 50							
14. 48	34. 45							
16. 27	33. 10							
19. 29	33. 50							
19. 38	33. 5							
19. 50	33. 50							
20. 48	32. 40							
21. 13	32. 50							
22. 26	34. 45							
23. 23	34. 45							
23. 43	35. 20							
23. 59	35. 0							
Dec. 26		Dec. 26		Dec. 26		Dec. 26		
	(†)		(†)		(†)	1. 40	49·2	50·2
1. 40	21. 35. 3*	1. 40	·1134*	1. 40	·01180*	3. 40	52·0	51·6
3. 40	32. 22*	3. 40	·1144*	3. 40	·01031*	9. 40	51·0	51·0
9. 32	31. 0	9. 40	·1144	9. 32	·00721	22. 50	48·0	49·4
9. 59	28. 20	9. 54	·1149	10. 49	·00775			
10. 27	30. 50	10. 9	·1145	11. 20	·00783			
12. 59	31. 50	15. 30	·1158	16. 0	·00736			
15. 11	32. 30	16. 30	·1166	18. 9	·00754			
15. 18	32. 20	20. 26	·1170	23. 26	·00863			
15. 43	32. 35	22. 10	·1177	23. 59	·00895			
15. 54	33. 20	23. 59	·1157					
16. 48	31. 30							
17. 10	31. 45							
17. 29	31. 20							
17. 48	31. 30							
18. 0	31. 0							
18. 21	31. 40							
20. 13	31. 30							
20. 27	30. 30							
21. 15	32. 30							
22. 28	33. 30							
22. 37	34. 40							
	***							
23. 59	35. 45							
Dec. 27		Dec. 27		Dec. 27		Dec. 27		
0. 0	21. 35. 45	0. 0	·1157	0. 0	·00895	6. 50	51·0	51·5
	***	0. 46	·1161	2. 49	·00951	12. 40	46·6	47·0
0. 48	37. 30	1. 5	·1148	8. 52	·00926	13. 40	46·6	47·0
1. 3	34. 30	1. 10	·1152	9. 24	·00955	14. 40	47·0	47·3
1. 15	36. 30	1. 42	·1148	11. 42	·00960	15. 40	47·1	47·5
1. 41	34. 10	2. 21	·1153	14. 6	·01036	16. 40	47·7	48·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.
December 24 and 25. The times of the Vertical Force indications are liable to an error of a few minutes.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 27		Dec. 27		Dec. 27		Dec. 27		
h m	° ′ ″	h m		h m		h m	°	°
4. 53	21. 35. 30	4. 37	·1152	17. 0	·01039	17. 40	48 ·1	48 ·6
5. 31	28. 0	5. 0	·1148	20. 54	·00946	18. 40	48 ·6	49 ·2
6. 4	30. 25	5. 15	·1151	22. 45	·00949	19. 40	48 ·2	48 ·8
6. 18	30. 30	5. 41	·1147	23. 59	·01004	20. 40	48 ·3	49 ·2
6. 30	31. 5	6. 7	·1149			21. 40	48 ·6	48 ·6
6. 52	29. 45	8. 0	·1143			22. 40	48 ·5	49 ·0
7. 0	30. 40	8. 38	·1127			23. 40	48 ·8	49 ·2
7. 28	27. 0	8. 53	·1132					
7. 59	29. 0	9. 9	·1126					
8. 11	30. 30	9. 22	·1133					
8. 45	23. 45	9. 43	·1138					
9. 10	26. 30	9. 55	·1131					
10. 11	15. 30	10. 9	·1138					
10. 29	19. 0	10. 36	·1138					
10. 43	17. 40	10. 44	·1144					
10. 47	18. 30	10. 54	·1144					
11. 4	16. 30	11. 7	·1135					
11. 45	19. 50	11. 24	·1134					
12. 25	20. 20	11. 37	·1141					
12. 41	23. 0	12. 0	·1135					
12. 57	22. 40	12. 22	·1142					
13. 12	21. 0	12. 55	·1132					
13. 25	23. 0	13. 10	·1142					
13. 36	23. 20	13. 43	·1143					
13. 45	25. 30	14. 2	·1146					
14. 12	21. 40	14. 13	·1144					
14. 39	23. 10	14. 58	·1148					
14. 54	20. 50	15. 9	·1152					
15. 53	26. 20	15. 45	·1144					
16. 44	25. 30	15. 53	·1148					
17. 9	27. 30	16. 33	·1145					
17. 27	25. 30	18. 21	·1167					
19. 0	42. 20	20. 0	·1145					
19. 58	48. 15	20. 49	·1134					
20. 40	48. 20	21. 10	·1136					
21. 7	46. 20	21. 28	·1133					
21. 13	46. 30	21. 30	·1135					
22. 6	43. 50	22. 0	·1119					
22. 29	44. 50	22. 59	·1119					
23. 39	41. 20	23. 21	·1113					
23. 59	42. 45	23. 59	·1118					
Dec. 28		Dec. 28		Dec. 28		Dec. 28		
0. 0	21. 42. 45	0. 0	·1118	0. 0	·01004	0. 40	48 ·8	49 ·1
0. 16	43. 30	0. 28	·1120	1. 12	·01069	1. 40	48 ·8	48 ·8
1. 10	38. 50	1. 37	·1144	2. 46	·01075	2. 40	49 ·3	49 ·5
1. 24	38. 50	1. 53	·1140	2. 54	·01054	3. 40	49 ·7	49 ·6
1. 42	40. 30	2. 5	·1141	4. 8	·00960	4. 40	51 ·0	50 ·8
1. 55	39. 40	2. 37	·1132	4. 39	·00954	5. 40	51 ·2	51 ·2
2. 6	40. 10	2. 52	·1138	5. 45	·00875	6. 40	51 ·5	51 ·7
2. 43	38. 0	4. 53	·1135	7. 20	·00835	7. 40	51 ·7	52 ·0
3. 28	38. 10	5. 14	·1126	13. 0	·00519	8. 40	52 ·0	52 ·2
3. 35	38. 40	5. 35	·1128	15. 53	·00469	9. 40	52 ·0	52 ·2
3. 45	37. 50	6. 4	·1137	18. 45	·00484	10. 40	52 ·4	52 ·5
4. 39	37. 10	6. 7	·1135	21. 20	·00554	11. 40	52 ·5	52 ·5
5. 25	31. 30	6. 15	·1136			21. 40	50 ·2	51 ·2
6. 27	43. 0	6. 40	·1123					
6. 54	37. 30	6. 56	·1132					
7. 26	41. 50	7. 51	·1096					
8. 12	32. 0	8. 20	·1105					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Vertical Force in 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. 28		Dec. 28						
h m	° ′ ″	h m		h m		h m	°	°
8. 22	21. 32. 20	8. 30	·1105					
8. 45	28. 30	9. 44	·1119					
9. 20	27. 30	10. 19	·1116					
	***	10. 32	·1121					
10. 44	29. 0	10. 39	·1118					
11. 14	25. 15	11. 23	·1125					
11. 27	24. 0	11. 32	·1120					
11. 37	25. 10	11. 53	·1120					
11. 45	24. 30	12. 37	·1129					
12. 7	25. 50	14. 15	·1129					
12. 38	26. 0		***					
14. 10	30. 5	20. 0	·1147					
14. 27	29. 15	20. 46	·1140					
16. 0	32. 0	22. 13	·1141					
16. 45	31. 30							
19. 14	31. 30							
20. 24	30. 50							
20. 31	29. 50							
21. 27	29. 50							
22. 15	31. 30							
				Dec. 29		Dec. 29		
				0. 0	·00620	1. 40		53 ·0
				2. 23	·00484	3. 40		53 ·6
				5. 24	·00535	9. 40		53 ·7
					·00627	21. 40		49 ·0
				6. 38	·00601			
				11. 0	·00656			
				15. 9	·00835			
				18. 39	·01015			
				21. 37	·01267			
					·01143			
				23. 59	·01219			
				Dec. 30		Dec. 30		
				0. 0	·01219	1. 40		50 ·0
				1. 35	·01238	3. 40		51 ·6
				3. 10	·01176	9. 40		51 ·8
				6. 23	·00864	21. 40		47 ·5
				8. 30	·00760			
				10. 39	·00741			
				14. 53	·00845			
				19. 54	·01216			
					·01176			
				22. 37	·01184			
				23. 59	·01200			
				Dec. 31		Dec. 31		
				0. 0	·01200	1. 40		47 ·6
				1. 27	·01215	3. 40		49 ·3
				3. 34	·01119	9. 40		50 ·7
				6. 40	·00736	21. 40		45 ·2
				7. 36	·00657			
				9. 9	·00613			
				11. 15	·00636			
				13. 6	·00737			
				17. 56	·01157			
					·01147			
				23. 59	·01105			

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

December 28^{d}. 22^{h}. 15^{m}. The annual examination of the adjustments of the Declination and Horizontal Force Magnets was commenced.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

OBSERVATIONS

OF THE

MAGNETIC DIP.

1857.

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.

Needle A 1 Barrow was in use till August 28.

Needle A 2 Barrow was in use throughout the year.

Needle A 1 Dent was in use from October 21.

MAGNETIC DIP, observed at the ROYAL OBSERVATORY, GREENWICH, in the Year 1857.

Day and Approximate Hour, 1857.		Magnetic Dip.	Needle.	Observer.	Day and Approximate Hour, 1857.		Magnetic Dip.	Needle.	Observer.
	d h	° ′				d h	° ′		
February	11. 21	68. 35 ·00	A 1	N	June	18. 1	68. 30 ·75	A 2	H C
	16. 21	68. 36 ·00	A 1	H C		23. 21	68. 30 ·50	A 2	H C
	18. 3	68. 34 ·00	A 1	N		24. 23	68. 30 ·00	A 2	H C
	18. 21	68. 32 ·50	A 2	E J H		30. 0	68. 26 ·48	A 2	H C
	20. 2	68. 19 ·00	A 2	H C					
	20. 22	68. 27 ·25	A 1	T D	July	0. 22	68. 37 ·66	A 1	H C
	23. 0	68. 32 ·25	A 2	J G		7. 22	68. 28 ·57	A 2	H C
	24. 3	68. 29 ·75	A 2	J G		13. 22	68. 41 ·97	A 1	H C
	25. 3	68. 34 ·75	A 2	H C		13. 23	68. 28 ·53	A 2	H C
	26. 21	68. 33 ·00	A 2	H C		20. 23	68. 35 ·22	A 1	T D
	28. 3	68. 29 ·00	A 2	E J H		21. 23	68. 29 ·17	A 2	T D
						28. 22	68. 42 ·02	A 2	T D
March	3. 0	68. 33 ·75	A 2	H C					
	4. 3	68. 31 ·25	A 2	T D	August	6. 0	68. 34 ·58	A 2	H C
	4. 21	68. 31 ·25	A 2	T D		11. 21	68. 35 ·21	A 1	T D
	6. 3	68. 36 ·50	A 2	H C		12. 22	68. 34 ·55	A 1	H C
	6. 22	68. 31 ·00	A 2	H C		18. 1	68. 33 ·92	A 1	H C
	12. 23	68. 27 ·00	A 2	J G		18. 23	68. 33 ·23	A 1	T D
	13. 0	68. 27 ·50	A 2	H C		19. 23	68. 30 ·53	A 2	H C
	13. 22	68. 29 ·50	A 2	H C		20. 22	68. 24 ·48	A 2	T D
	16. 21	68. 30 ·00	A 2	H C		25. 23	68. 32 ·75	A 1	T D
	20. 1	68. 30 ·50	A 2	H C		27. 21	68. 37 ·33	A 1	H C
	23. 1	68. 31 ·50	A 2	H C		28. 21	68. 33 ·75	A 2	H C
	24. 0	68. 30 ·00	A 2	H C					
	25. 22	68. 29 ·25	A 2	H C	September	5. 2	68. 34 ·50	A 2	T D
April	6. 1	68. 31 ·50	A 2	H C		8. 22	68. 32 ·75	A 2	T D
	6. 22	68. 30 ·25	A 2	H C		15. 23	68. 32 ·50	A 2	T D
	8. 1	68. 30 ·25	A 2	H C		28. 22	68. 28 ·25	A 2	H C
	8. 21	68. 31 ·25	A 2	H C					
	11. 0	68. 32 ·50	A 2	H C					
	15. 0	68. 31 ·25	A 2	H C	October	2. 1	68. 30 ·00	A 2	H C
	16. 1	68. 32 ·50	A 1	H C		19. 1	68. 26 ·00	A 2	H C
	17. 21	68. 35 ·00	A 1	H C		20. 21	68. 19 ·50	A 1	H C
	19. 22	68. 32 ·25	A 2	H C		22. 0	68. 18 ·50	A 1	T D
	24. 21	68. 33 ·50	A 2	H C					
	28. 23	68. 35 ·25	A 1	H C					
	29. 0	68. 34 ·00	A 2	H C	November	2. 22	68. 18 ·25	A 1	T D
						19. 0	68. 31 ·25	A 2	H C
May	1. 0	68. 32 ·75	A 2	H C		27. 0	68. 17 ·88	A 1	H C
	3. 21	68. 31 ·75	A 2	H C					
	5. 21	68. 33 ·00	A 2	H C					
	15. 23	68. 40 ·25	A 1	H C	December	3. 22	68. 30 ·00	A 2	T D
	20. 23	68. 31 ·25	A 2	H C		3. 23	68. 32 ·75	A 2	T D
	29. 22	68. 30 ·50	A 2	H C		17. 22	68. 30 ·50	A 2	H C

August 27^{d}. 21^{h}. After this observation Needle A 1 Barrow was sent to Mr. Dent to have a new axis; whilst in his hands it was broken. Another Needle was ordered in its place, and the Dip-Instrument was at Mr. Dent's from October 2 to 19. Needle A 1 Dent was received at the Observatory on October 20.

October 19^{d}. 1^{h}. A damp morning.

The Observers of this Magnetic Dip were respectively Mr. Glaisher and Mr. Downs, See page (iv); Mr. Henry Criswick, Mr. William Carpenter Nash, and Mr. Edward John Hallam; their initials are J G, T D, H C, N, and E J H.

MONTHLY MEANS of MAGNETIC DIPS, at the ROYAL OBSERVATORY, GREENWICH, in the Year 1857.

1857, Month.	Barrow, A 1.	Number of Observations.	Barrow, A 2.	Number of Observations.	Dent, A 1.	Number of Observations.
	° ′		° ′		° ′	
February	68. 33 ·06	4	68. 30 ·04	7	....	..
March	....	..	68. 30 ·85	13	....	..
April	68. 34 ·25	3	68. 31 ·87	9	....	..
May	68. 40 ·25	1	68. 31 ·85	5	....	..
June	....	..	68. 29 ·43	4	....	..
July	68. 38 ·28	3	68. 32 ·07	4	....	..
August	68. 34 ·50	6	68. 30 ·83	4	....	..
September	....	..	68. 32 ·00	4	....	..
October	....	..	68. 28 ·00	2	68. 19 ·00	2
November	....	..	68. 31 ·25	1	68. 18 ·07	2
December	....	..	68. 31 ·08	3	....	..
Mean	....	..	68. 30 ·84	..	....	..

As there appeared to be no marked difference between observations taken at 21^h and 3^h, the monthly means have been taken irrespectively of the hours of observation.

ROYAL OBSERVATORY, GREENWICH.

OBSERVATIONS

OF

DEFLEXION OF A MAGNET

FOR

ABSOLUTE MEASURE

OF

HORIZONTAL FORCE.

1857.

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, 1857.	Position of Deflecting Magnet with regard to Suspended Magnet.	Distances of Centers of Magnets.	Temperature.	Observed Deflexion.	Mean of the Times of Vibration of Deflecting Magnet.	Number of Vibrations.	Temperature.	Observer.
		ft. in.	°	° ′ ″	s		°	
January 22	Lateral	1. 0	39·0	8. 41. 4·67	5·800	100	38·0	H C
	Axial.....			4. 38. 0·08				
	Lateral	1. 6		2. 37. 1·75				
	Axial.....			1. 19. 34. 94	5·825	100	39·3	
February 4	Lateral	1. 0	35·0	8. 43. 8·28	5·814	100	32·5	H C
	Axial.....			4. 40. 37·28				
	Lateral	1. 6		2. 36. 49·14				
	Axial.....			1. 18. 58·41	5·805	100	36·5	
March 18	Lateral	1. 0	65·5	8. 46. 0·57	5·824	100	64·1	H C
	Axial.....			4. 41. 41·97				
	Lateral	1. 6		2. 37. 42·94				
	Axial.....			1. 20. 42·23	5·800	100	65·3	
April 28	Lateral	1. 0	45·0	8. 56. 33·13	5·772	100	43·3	H C
	Axial.....			4. 48. 50·07				
	Lateral	1. 6		2. 39. 16·08				
	Axial.....			1. 22. 19·33	5·803	100	44·2	
May 13	Lateral	1. 0	69·6	8. 51. 28·91	5·797	100	69·8	H C
	Axial.....			4. 47. 19·39				
	Lateral	1. 6		2. 39. 41·96				
	Axial.....			1. 19. 37·41	5·797	100	69·7	
June 3	Lateral	1. 0	68·4	8. 47. 12·55	5·785	100	59·7	H C
	Axial.....			4. 38. 21·27				
	Lateral	1. 6		2. 39. 19·84				
	Axial.....			1. 20. 1·49	5·821	100	67·6	
August 27	Lateral	1. 0	78·8	8. 34. 37·96	5·836	100	70·7	H C
	Axial.....			4. 34. 8·45				
	Lateral	1. 6		2. 34. 11·40				
	Axial.....			1. 19. 36·11	5·857	100	79·4	
Sept. 25	Lateral	1. 0	67·2	8. 35. 23·19	5·851	100	69·6	H C
	Axial.....			4. 36. 28·36				
	Lateral	1. 6		2. 35. 39·49				
	Axial.....			1. 19. 55·01	5·848	100	67·3	
October 27	Lateral	1. 0	59·4	8. 32. 16·34	5·846	100	56·7	H C
	Axial.....			4. 36. 51·42				
	Lateral	1. 6		2. 34. 46·16				
	Axial.....			1. 21. 16·84	5·816	100	61·5	
December 9	Lateral	1. 0	45·1	8. 36. 49·95	5·820	100	45·0	H C
	Axial.....			4. 36. 15·64				
	Lateral	1. 6		2. 35. 53·74				
	Axial.....			1. 19. 40·48	5·831	100	45·0	

The initials H C are those of Mr. Henry Criswick, see page (cxxxiii).

COMPUTATION of the VALUES of ABSOLUTE MEASURE of HORIZONTAL FORCE.

Month and Day, 1857.	Apparent Value of a.	Apparent Value of b.	Mean Value of b.	Apparent Value of a_1.	Apparent Value of b_1.	Adopted Value of a, assuming the Value of b $-0\cdot00450$ to June, and $-0\cdot00606$ from August.	Log. $\frac{1}{2}a$ = Log. $\frac{m}{X}$	Adopted Time of Vibration of Deflecting Magnet.	Log. $m\,X$.	Value of X.	Value of m.
January 22	+0·15660	−0·00560		0·07600	0·00478	+0·15171	8·89109	s 5·813	0·05974	3·840	0·299
February 4	+0·15575	−0·00416		0·07431	0·00723	+0·15212	8·89222	5·810	0·06019	3·837	0·299
March 18	+0·15668	−0·00427	−0·00450	0·07713	0·00472	+0·15295	8·89454	5·812	0·05989	3·825	0·300
April 28	+0·15700	−0·00156		0·07832	0·00560	+0·15564	8·90190	5·788	0·06348	3·809	0·304
May 13	+0·15892	−0·00493		0·07391	0·00957	+0·15462	8·89913	5·797	0·06213	3·815	0·302
June 3	+0·15925	−0·00649		0·07670	0·00418	+0·15358	8·89629	5·803	0·06123	3·824	0·301
August 27	+0·15307	−0·00393		0·07693	0·00273	+0·14964	8·88912	5·847	0·05467	3·826	0·296
September 25	+0·15549	−0·00613	−0·00551	0·07694	0·00340	+0·15014	8·89050	5·850	0·05423	3·818	0·297
October 27	+0·15464	−0·00618		0·07927	0·00118	+0·14925	8·88801	5·831	0·05705	3·842	0·297
December 9	+0·15557	−0·00579		0·07657	0·00370	+0·15051	8·89155	5·826	0·05780	3·829	0·298

Between the months of June and August, the whole of the Deflexion apparatus was taken down and thoroughly repaired.

The value of b employed in the reductions from January to June, namely, $-0\cdot00450$, is the mean of the apparent values of b, from the observations taken between these times, and that used in the reductions from August to December, namely, $-0\cdot00606$, is the mean from the observations taken between 1857, August, and 1858, April.

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

Month and Day, 1857.		Adopted Time of Vibration.	Temperature.	Log. $m\,X$.	Value of m interpolated from the Deflexion Observations.	Inferred Value of X.	Observer.
		s	°				
January	30	5·807	31·4	0·06064	0·299	3·846	N
February	12	5·815	37·0	0·05944	0·299	3·835	N
	21	5·790	45·0	0·06318	0·299	3·868	N
	26	5·817	46·0	0·05914	0·299	3·832	N
March	17	5·780	48·0	0·06468	0·300	3·869	N
May	15	5·788	76·0	0·06348	0·302	3·832	N
	28	5·801	71·2	0·06153	0·301	3·828	N
June	2	5·778	68·1	0·06499	0·301	3·859	N
	3	5·820	70·5	0·05869	0·301	3·803	N
August	19	5·832	71·3	0·05691	0·296	3·851	H C
	26	5·856	75·6	0·05334	0·296	3·820	N
	26	5·853	76·2	0·05378	0·296	3·824	N
September	29	5·843	61·3	0·05527	0·297	3·824	N
October	14	5·843	63·5	0·05527	0·297	3·824	N
November	21	5·832	52·0	0·05691	0·297	3·838	N
December	5	5·830	49·7	0·05720	0·298	3·828	N
	5	5·834	50·8	0·05661	0·298	3·823	N

The number of vibrations employed in each determination was 100.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1857.

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

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

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

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

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

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

The dew-point has been inferred exclusively from simultaneous observations of the dry-bulb and wet-bulb thermometers. In order to find the difference between the dry-bulb reading and the dew-point, the difference between the dry-bulb and the wet-bulb readings has been multiplied by a factor taken from the following table (deduced by Mr. Glaisher from the comparison of all the simultaneous readings of the dry-bulb, wet-bulb, and dew-point thermometers, from the year 1840 to the end of the year 1854).

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

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

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

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

The thermometer for the minimum temperature on the grass was out of order on May 15, 16, 19, 20, 21; June 1 to June 20, June 27; July 1, 2, July 6 to July 11, July 17, 18, 22, 24; August 5, 16, 17, 24, 26, 27, 29, 31; September 7, 16, 18, 21; October 3, 28; November 16, 30; December 8, 26.

The thermometer for the maximum temperature in the sun was out of order on May 17, 18, 20; July 14; August 31.

The thermometers for the maximum and minimum temperatures of the water of the Thames were not observed from January 25 to May 31; and again from August 30 to October 31.

The thermometer for the maximum temperature of the water of the Thames was out of order from July 24 to 28; that for the minimum was out of order from May 31 to June 2.

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 forty-three years, is found by comparison with a table of results deduced by Mr. Glaisher from forty-three years' observations, made at the Royal Observatory, ending 1856.

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

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

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

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

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

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

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

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

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

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

MONTH and DAY, 1857.	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 43 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.
Jan. 1	..	29·924	52·3	44·5	47·9	44·0	58·5	41·0	39·5	37·9	3·9	6·4	1·1	+11·4	WSW	SW	2·0	0·0	0·1	185	0·00
2	In Equator	29·611	52·7	41·2	43·9	37·7	51·5	35·8	41·0	39·3	6·2	9·0	0·7	+ 7·5	SW	W; SW	2·0	0·0	0·3	185	0·10
3	First Qr.	29·049	50·8	38·5	45·3	39·6	55·0	30·8	41·5	40·2	5·7	9·5	2·1	+ 8·9	S	SW	12·0	0·0	3·5	410	0·05
4	..	29·056	43·5	38·4	39·7	36·3	52·8	32·0	41·5	40·3	3·4	4·4	0·2	+ 3·4	SW	SW; NE	6·0	0·0	0·4	170	0·13
5	Perigee	29·803	40·5	29·0	32·3	28·3	40·0	18·8	41·5	40·3	4·0	5·0	0·7	− 3·8	NE	NE	5·5	0·0	0·6	240	0·20
6	..	30·048	35·7	29·4	32·7	30·4	40·0	24·2	41·0	40·3	2·3	3·0	1·5	− 3·3	NE	NE	2·5	0·0	0·2	65	0·01
7	..	30·230	34·6	28·1	31·5	29·8	34·3	20·0	40·7	38·3	1·7	3·0	1·0	− 4·3	NNE	NE	0·0	0·0	0·0	5	0·00
8	..	30·189	38·0	30·0	33·7	32·1	38·0	26·5	40·8	38·3	1·6	3·7	0·2	− 1·8	Calm	S	0·0	0·0	0·0	10	0·07
9	Greatest Declination N.	29·924	45·4	37·2	42·4	42·4	41·5	31·3	40·7	39·8	0·0	1·5	0·0	+ 7·0	S	SW	3·5	0·0	0·1	215	0·10
10	Full	29·342	49·2	40·4	45·3	42·2	49·3	39·0	40·8	40·8	3·1	6·3	1·5	+ 9·6	SW	NW; SW	3·5	0·0	0·2	105	0·69
11	..	28·979	46·5	40·1	41·7	38·4	47·0	35·1	41·5	41·5	3·3	3·5	2·2	+ 6·1	SW; NW	N; NNE	3·0	0·0	0·3	100	0·30
12	..	29·026	44·0	31·7	36·4	34·1	53·0	22·5	41·3	41·1	2·3	5·3	0·0	+ 0·8	W	SE; E	0·0	0·0	0·0	30	0·00
13	..	29·397	36·2	30·9	33·5	32·7	38·0	23·3	41·0	40·5	0·8	1·9	0·0	− 2·1	NE	NW; N	0·0	0·0	0·0	50	0·00
14	..	29·958	38·0	28·3	32·3	26·2	49·0	22·5	40·2	39·3	6·1	7·8	4·1	− 3·3	N	N; WSW	0·0	0·0	0·0	60	0·00
15	In Equator	29·899	41·8	26·0	35·7	35·6	49·2	16·1	40·7	38·1	0·1	2·2	0·0	+ 0·2	SSW	SW; N	1·5	0·0	0·1	75	0·08
16	..	29·994	45·0	32·0	37·8	34·1	48·0	21·9	40·5	37·3	3·7	8·8	0·3	+ 2·3	W	NW	2·3	0·0	0·2	85	0·00
17	..	30·196	45·0	33·0	38·4	36·6	49·5	17·0	40·3	37·5	1·8	3·2	1·4	+ 2·5	SW	WSW	0·0	0·0	0·0	85	0·01
18	Apogee Last Quarter	30·160	49·8	36·0	44·5	44·3	50·5	29·0	39·8	38·0	0·2	3·6	0·0	+ 8·2	WSW	W	3·0	0·0	0·2	135	0·00
19	..	30·138	48·3	36·7	42·4	40·4	47·0	39·0	39·7	38·6	2·0	5·3	0·5	+ 5·9	WSW; N	N; SW	0·0	0·0	0·0	105	0·02
20	..	29·334	43·2	32·8	38·1	36·3	48·0	23·7	39·7	38·8	1·8	4·8	0·3	+ 1·3	SW	SW; W	7·0	0·0	0·5	95	0·24
21	..	29·440	38·0	29·5	32·2	30·2	37·8	29·3	39·7	39·7	2·0	2·6	0·0	− 4·9	W	W	0·0	0·0	0·0	15	0·00
22	..	29·619	39·8	28·4	35·1	33·9	40·0	19·3	39·5	39·5	1·2	3·8	1·0	− 2·2	N	SW	2·0	0·0	0·1	145	0·02
23	Greatest Declination S.	29·143	44·2	32·0	37·7	32·8	51·5	29·0	39·8	39·8	4·9	7·5	3·8	+ 0·2	W	W	3·3	0·0	0·4	165	0·03
24	..	28·993	41·0	32·0	36·4	34·6	41·0	26·8	39·5	39·5	1·8	4·1	0·3	− 1·5	W	NW	3·0	0·0	0·1	115	0·10
25	New	29·251	39·0	34·0	35·9	34·5	40·0	31·0	..	..	1·4	1·4	0·8	− 2·1	ENE	NE	1·5	0·0	0·0	80	0·16
26	..	29·563	36·7	30·1	33·1	32·2	38·0	35·0	..	..	0·9	1·6	0·3	− 5·2	NNE	ENE	1·0	0·0	0·1	135	0·02
27	..	29·753	36·5	28·0	31·8	29·3	39·3	31·0	..	..	2·5	4·6	0·0	− 6·5	NNE	NE	0·0	0·0	0·0	25	0·01
28	..	29·685	34·5	25·0	29·7	25·3	41·0	10·6	..	..	4·4	9·2	0·5	− 8·4	NNE	NNE	0·0	0·0	0·0	25	0·00
29	In Equator	29·720	32·8	22·0	26·2	21·1	41·0	11·4	..	..	5·1	7·3	3·5	−11·7	N by E	N; WSW	0·0	0·0	0·0	15	0·00
30	Perigee	29·662	35·1	20·0	28·5	23·7	36·0	8·9	..	..	4·8	8·4	0·0	− 9·1	SW	SW	2·0	0·0	0·0	95	0·00
31	..	29·582	37·6	30·5	32·9	30·6	37·6	21·0	..	..	2·3	3·9	0·3	− 4·4	SW	NW	1·5	0·0	0·2	10	0·25
																				Sum	Sum
Means	..	29·634	41·8	32·1	36·6	33·9	44·6	25·9	40·5	39·4	2·7	4·9	0·9	0·0	...	...	..	..	..	3235	2·59

BAROMETER READINGS.

The first minimum in the month was 28in·968 on the 3rd.

The absolute maximum in the month was 30in·258 on the 7th; the absolute minimum ,, was 28in·848 on the 11th.
The second maximum ,, was 30in·050 on the 14th; the third minimum ,, was 29in·847 on the 15th.
The third maximum ,, was 30in·212 on the 17th; the fourth minimum ,, was 29in·179 on the 20th.
The fourth maximum ,, was 29in·709 on the 22nd; the fifth minimum ,, was 28in·970 on the 24th.
The fifth maximum ,, was 29in·764 on the 27th; the sixth minimum ,, was 29in·525 on the 31st.
The range in the month was 1in·410. The mean for the month was 29in·634, being 0in·095 *lower* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 52°·7 on the 2nd; the lowest was 20°·0 on the 30th; and the range in the month was 32°·7.
The mean ,, of all the highest daily readings was 41°·8, being 1°·2 *lower* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 32°·1, being 1°·6 *lower* than the average of the preceding 17 years.
The mean daily range was 9°·7, being 0°·3 *higher* than the average of the preceding 17 years.
The mean for the month was 36°·6, being 1°·5 *lower* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY.		CLOUDS AND WEATHER.			
	A.M.	P.M.	A.M.		P.M.	
Jan. 1	v	v	10	: 5, li.-cl	6, li.-cl	: 10
2	s	s	v, r	: 0	0	
3	w	w	v, r, st.-w, sqs		10	: st.-w, h.-r
4			10	: sl.-r	10, r	
5			10, r, st.-w	: sl.-sn	5, sn	: 10, ci.-s, sc
6			10, sn, sl.-r		10, r	
7			10		10	
8			10, sn		10, r, sl	
9			10, r		10	: r
10			10, h.-r		5	: 10, h.-r
11			10, r		10	
12		w : 0	0		5, li.-cl	: 10, f
13	0	s	10, f		10	: f
14	s	s	0		0	: h
15	s	s	10, th.-r		10, r	: v, f
16	s, g cur	s	10, ci.-cu, li.-cl		8 ci.-cu, li.-cl	
17	s	s, sps, g cur	10		5, li.-cl	: 10, f
18	s, sps	s, sps	10		10, m.-r	: v
19	s, sps	s, sps	10, th-r		v, th.-r	: 0, f
20	m	m	10, shs.-r, st.-w		10, h.-r, st.-w	
21	s, sps, g cur	s, sps, g cur	10, f	: 0	0, f	
22	s	s	10, h		8, li.-cl	: 10, m.-r
23	s, sps, g cur	s, sps, g cur	v, r		v, li.-cl	: f
24	s	N, s : 0	10, sn		5, r	: 10, h.-sqs, w, r
25	N, m	s	10, sn.-r		10, r	
26	v	v	10, sn		10, sn	: 10, sl, r
27	s, sps, g cur	s, sps, g cur	10, sn		10	: 0
28	s	s	0	: 10	10	: 10, sn
29	s, sps, g cur	s, sps, g cur	0		5, cu, ci.-cu	: 0, h
30	s	s	5, li.-cl		5, ci.-cu	: 10
31	ss, sps, g cur	ss, sps, g cur	10, sn		10	: 0, f

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 47°·0 on the 3rd; and the lowest was 15°·7 on the 29th.

The mean ,, was 33°·9, being 1°·6 *lower* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0in·195, being 0in·010 *less* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2gr·3, being 0gr·1 *less* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 91 (that of Saturation being represented by 100), being 2 *greater* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 553 grains, being *the same as* the average of the preceding 17 years.

CLOUDS.

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

WIND.

The proportions were of N. 9, S. 3, W. 12, and E. 7. The greatest pressure in the month was 12lbs·0 on the square foot on the 3rd.

RAIN.

Fell on 20 days in the month, amounting to 2in·6 as measured in the simple cylinder gauge partly sunk below the ground; being 0in·6 *greater* than the average fall of the preceding 17 years.

ELECTRICITY.—Jan. 4 to 11. The insulating lamp on the electrometer pole was not burning.

MONTH and DAY, 1857.	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 43 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.
Feb. 1	First Qr.	29·784	31·6	20·0	24·5	23·8	31·6	10·7	..	..	0·7	1·9	0·5	—12·7	SW	Calm	0·0	0·0	0·0	5	0·00
2	..	29·444	37·5	21·2	30·3	26·8	38·5	14·0	..	..	3·5	6·2	0·6	— 6·7	SE	S ; SE	0·0	0·0	0·0	45	0·00
3	..	29·662	32·1	26·0	28·2	24·5	38·2	20·5	..	..	3·7	5·9	3·6	— 9·1	ESE ; NE	NE	0·0	0·0	0·0	35	0·08
4	..	30·075	37·2	23·5	29·0	24·6	48·4	21·2	..	..	4·4	6·2	3·2	— 8·7	NE	NE ; Calm	0·0	0·0	0·0	5	0·00
5	Greatest Declination N.	29·952	38·0	23·0	30·8	26·9	43·0	12·8	..	..	3·9	7·8	0·0	— 7·6	SW	SW	0·0	0·0	0·0	100	0·00
6	..	29·777	47·7	37·5	42·2	39·7	52·2	28·1	..	..	2·5	4·8	1·5	+ 3·2	WSW	SW	0·0	0·0	0·0	105	0·00
7	..	29·643	45·5	39·4	41·2	36·6	44·7	36·0	..	..	4·6	5·1	3·0	+ 2·0	SW	SW	2·0	0·0	0·3	135	0·00
8	Full	29·545	44·7	36·2	40·4	36·3	47·5	29·2	..	..	4·1	6·8	2·5	+ 1·2	SSW	SSW	0·0	0·0	0·0	125	0·00
9	..	29·436	48·0	37·0	42·8	34·4	60·0	29·3	..	..	8·4	11·6	6·2	+ 3·8	SSE ; S	S	4·0	0·0	0·6	220	0·00
10	..	29·575	50·0	40·0	43·9	39·8	56·0	31·1	..	..	4·1	8·2	1·6	+ 5·2	SW	SW	4·5	0·0	0·5	155	0·08
11	..	29·783	52·2	37·2	44·4	37·5	57·0	28·7	..	..	6·9	12·2	4·0	+ 5·9	SW	WSW	3·0	0·0	0·4	115	0·01
12	In Equator	30·214	47·0	32·5	38·7	31·3	55·0	21·1	..	..	7·4	11·7	3·6	+ 0·4	NW ; WSW	SW	1·5	0·0	0·0	60	0·00
13	..	30·170	44·2	31·0	37·9	33·4	50·5	20·4	..	..	4·5	9·0	3·6	— 0·3	SW	W ; SW	0·0	0·0	0·0	25	0·00
14	Apogee	30·136	47·2	31·4	38·4	33·5	53·4	20·8	..	..	4·9	11·1	0·7	+ 0·4	SW	Calm	0·0	0·0	0·0	15	0·00
15	..	29·988	45·2	29·9	36·9	34·9	56·1	18·0	..	..	2·0	9·7	0·0	— 1·2	NE	ESE	0·0	0·0	0·0	20	0·00
16	..	29·960	55·4	28·2	41·9	38·0	72·0	21·8	..	..	3·9	13·2	0·7	+ 3·8	Calm	S	0·0	0·0	0·0	15	0·00
17	Last Qr.	29·872	56·0	34·0	44·5	41·3	62·5	25·0	..	..	3·2	9·0	0·2	+ 6·3	S	S	0·0	0·0	0·0	30	0·00
18	..	29·878	55·3	39·0	45·9	42·1	69·8	31·8	..	..	3·8	11·4	0·3	+ 7·6	S	SW ; Calm	0·0	0·0	0·0	25	0·00
19	Greatest Declination S.	30·001	45·8	38·2	42·3	39·9	49·3	29·0	..	..	2·4	4·6	1·1	+ 3·9	Calm	Calm	0·0	0·0	0·0	0	0·00
20	..	30·050	52·0	37·0	43·1	39·5	62·0	37·1	..	..	3·6	9·2	0·4	+ 4·6	Calm	SW	0·0	0·0	0·0	30	0·00
21	..	30·169	51·2	34·0	42·5	39·1	59·0	27·7	..	..	3·4	9·2	1·2	+ 4·0	SW	SW	0·0	0·0	0·0	160	0·00
22	..	30·120	54·2	39·0	45·3	38·9	67·3	32·7	..	..	6·4	13·2	0·0	+ 6·7	SW	SW	2·0	0·0	0·2	65	0·00
23	..	30·154	55·2	36·1	44·4	39·1	69·0	24·0	..	..	5·3	13·2	1·2	+ 5·5	Calm	Calm	0·0	0·0	0·0	10	0·00
24	New	30·091	51·4	32·8	40·9	37·6	66·3	20·2	..	..	3·3	8·8	1·8	+ 1·8	S	SE	0·0	0·0	0·0	10	0·00
25	..	30·056	41·8	24·9	33·6	33·4	43·0	16·2	..	..	0·2	3·2	0·0	— 5·9	Calm	NW ; NE	0·0	0·0	0·0	15	0·00
26	Perigee In Equator	30·363	50·2	31·9	38·7	32·4	68·0	18·0	..	..	6·3	14·7	2·2	— 1·0	NE	Calm	0·0	0·0	0·0	40	0·00
27	..	30·328	47·0	31·8	40·2	35·8	50·0	20·8	..	..	4·4	10·6	3·7	+ 0·4	Calm ; SW	SW	0·0	0·0	0·0	60	0·00
28	..	30·383	56·9	36·9	45·6	40·9	76·2	27·9	..	..	4·7	11·8	1·5	+ 5·6	SW	Calm	0·0	0·0	0·0	5	0·00
																				Sum	Sum
Means	..	29·950	47·2	32·5	39·2	35·1	55·2	24·1	..	..	4·1	9·0	1·7	+ 0·7	...	...	..	..	..	1630	0·17

BAROMETER READINGS.

The first maximum in the month was 29in·820 on the 1st; the first minimum in the month was 29in·407 on the 2nd.
The second maximum ,, was 30in·138 on the 4th; the absolute minimum ,, was 29in·382 on the 9th.
The absolute maximum ,, was 30in·246 on the 12th; the third minimum ,, was 29in·859 on the 17th.
The range in the month was 0in·864.
The mean for the month was 29in·950, being 0in·183 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 56°·9 on the 28th; the lowest was 20°·0 on the 1st; and the range in the month was 36°·9.
The mean ,, of all the highest daily readings was 47°·2, being 2°·8 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 32°·5, being 1°·0 *lower* than the average of the preceding 17 years.
The mean daily range was 14°·7, being 3°·9 *higher* than the average of the preceding 17 years.
The mean for the month was 39°·2, being 0°·7 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Feb. 1	s, sps	s, sps	10, th.-f	9, li.-cl : 10
2	ss, sps, g cur	ss, sps, g cur	10, sn	10 : 7
3	s	s	10	10
4	s	v	10, sn	0 : f
5	v	v	10	10, sl.-sn
6	s	s	10	10
7	s	w	10	10
8	w	w	10	10
9	w	w	7 li-cl	7, li.-cl : 10, r, st.-w
10	w	w	5, ci, r	10 : 0
11	m	m	0 : 10, cu, ci-cu	9, cu, ci.-cu : r
12	s, sps, g cur	s, sps, g cur	10 s, h.-fr : 0	0 : f
13	s, sps	s, sps	0 : 10	10
14	s, g cur	s, g cur	7	0
15	v	v	9	9, ci.-cu, ci.-s
16	ss, sps	ss, sps	2, ci.-cu, ci	0 : h
17	s	s	0 : 10	10
18	ss, sps	ss, sps	10	v : h
19	v	v : s, sps	10, f	10 : f
20	s, sps	s, sps	10	10 : 0
21	ss	ss	10	10
22	m	m	2 li.-cl : 0	0 : h
23	s, sps, g cur	s, sps, g cur	10, f : 0	0
24	s	s	10	0
25	s, sps, g cur	s, sps, g cur	10, h.-f	10, th.-f
26	s, sps, g cur	s, sps, g cur	5, th.-r	0, h
27	s	s	10	10 : 7, f
28	s	N, w : s	7	0 : 10 : 0, f

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 45°·7 on the 17th; and the lowest was 19°·8 on the 5th.
The mean ,, was 35°·1, being 0°·5 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0^{in}·204, being 0^{in}·001 *greater* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2^{gr}·4, being 0^{gr}·1 *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 86 (that of Saturation being represented by 100), being the same as the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 556 grains, being 3 grains *greater* than the average of the preceding 17 years.

CLOUDS.

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

WIND.

The proportions were of N. 3, S. 14, W. 8, and E. 3. The greatest pressure in the month was 4^{lbs}·5 on the square foot on the 10th.

RAIN.

Fell on 3 days in the month, amounting to 0^{in}·2, as measured in the simple cylinder gauge partly sunk below the ground; being 1^{in}·2 *less* than the average fall of the preceding 17 years.

MONTH and DAY, 1857.	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 43 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Mar. 1	..	30·404	55·0	32·3	43·0	41·7	69·5	22·0	..	..	1·3	7·8	0·9	+ 1·9	E	E	0·0	0·0	0·0	10	0·00
2	..	30·371	49·8	41·3	43·9	39·9	54·8	33·7	..	..	4·0	8·2	0·0	+ 3·9	ENE	E	0·0	0·0	0·0	10	0·00
3	First Qr.	30·258	47·6	41·0	43·2	38·9	51·7	39·2	..	..	4·3	6·7	2·6	+ 3·3	Calm	Calm	0·0	0·0	0·0	30	0·00
4	Greatest Declination N.	30·005	50·0	35·8	43·1	39·0	56·0	33·0	..	..	4·1	7·7	0·8	+ 3·2	W	W; N	4·0	0·0	0·4	90	0·00
5	..	30·163	48·5	29·5	38·0	29·8	65·8	15·5	..	..	8·2	17·6	5·2	— 2·0	N; SW	WSW	2·5	0·0	0·2	150	0·00
6	..	29·895	53·8	38·7	46·1	37·6	66·9	29·0	..	..	8·5	15·6	3·6	+ 6·0	W; NW	W	2·5	0·0	0·1	60	0·00
7	..	29·761	53·0	37·0	44·3	38·1	65·5	26·0	..	..	6·2	12·2	2·9	+ 4·2	W	W	0·0	0·0	0·0	140	0·00
8	..	29·384	45·0	32·3	35·8	32·8	48·0	26·4	..	..	3·0	5·5	1·9	— 4·3	WSW	NW; W	12·0	0·0	1·5	140	0·15
9	..	29·735	44·9	32·0	35·4	29·5	58·5	20·0	..	..	5·9	12·0	1·8	— 4·8	W; N	NNE	7·0	0·0	0·8	150	0·00
10	Full	29·869	42·5	28·0	34·5	29·9	59·0	19·8	..	..	4·6	10·8	2·8	— 5·8	NNE	N; Calm	0·0	0·0	0·0	15	0·00
11	In Equator	29·800	40·0	31·2	33·3	26·9	47·0	22·7	..	..	6·4	11·0	2·9	— 7·2	SE	SW	0·0	0·0	0·0	10	0·00
12	..	29·896	44·0	28·8	36·8	32·4	57·0	16·3	..	..	4·4	8·8	1·0	— 3·8	W	SW	0·0	0·0	0·0	75	0·00
13	..	29·546	44·8	33·8	38·4	31·0	62·1	25·0	..	..	7·4	11·4	1·4	— 2·6	SSW	S	5·0	0·0	0·8	225	0·03
14	Apogee	29·020	56·6	36·1	46·2	40·9	67·0	29·1	..	..	5·3	18·0	1·3	+ 4·9	S	SW	13·0	0·0	4·0	350	0·15
15	..	29·390	52·5	36·0	41·7	33·4	60·0	32·0	..	..	8·3	12·4	5·5	+ 0·2	SW	SW	12·0	1·0	2·0	310	0·27
16	..	29·858	56·0	35·3	44·0	38·8	76·0	28·0	..	..	5·2	12·8	1·4	+ 3·4	SW	SW	3·0	0·0	0·5	60	0·00
17	..	29·676	54·3	33·0	44·4	39·4	70·3	21·7	..	..	5·0	12·2	4·2	+ 2·6	SE; E	SE	0·0	0·0	0·0	25	0·00
18	Last Qr.	29·634	66·2	44·5	53·2	47·4	84·4	28·5	..	..	5·8	13·1	3·8	+11·4	Calm	SE	0·0	0·0	0·0	20	0·00
19	Greatest Declination S.	29·760	56·0	47·8	50·7	48·6	57·8	42·2	..	..	2·1	3·2	1·5	+ 8·9	S	SE	0·0	0·0	0·0	5	0·06
20	..	29·836	52·0	41·3	44·9	41·4	52·0	42·2	..	..	3·5	5·0	2·1	+ 3·0	SE	E	2·0	0·0	0·3	150	0·00
21	..	29·880	42·8	33·0	35·7	29·2	57·7	27·9	..	..	6·5	13·6	1·3	— 6·2	E	NE	5·0	0·0	2·0	120	0·00
22	..	29·665	42·4	27·7	32·9	29·6	54·5	17·1	..	..	3·3	8·8	..	— 9·0	N; NW	NNW	3·0	0·0	0·0	55	0·05
23	..	29·549	43·1	31·9	35·6	29·3	59·3	25·5	..	..	6·3	13·9	4·2	— 6·4	SW	S; SSE	0·0	0·0	0·0	35	0·00
24	..	29·454	50·0	30·0	40·2	32·6	67·5	20·2	..	..	7·6	18·5	3·0	— 1·9	SE	SE	2·0	0·0	0·1	85	0·00
25	In Equator	29·351	45·7	36·0	40·2	36·9	50·8	29·2	..	..	3·3	8·4	2·2	— 2·0	SE	SW	0·0	0·0	0·0	70	0·02
26	New, Perigee	29·626	52·3	30·4	41·1	35·2	67·5	17·1	..	..	5·9	15·8	2·5	— 1·2	SW	N	0·0	0·0	0·0	5	0·00
27	..	29·880	47·2	36·4	41·5	36·9	51·0	25·3	..	..	4·6	9·0	1·7	— 0·9	Calm	Calm	0·0	0·0	0·0	0	0·00
28	..	29·851	54·0	40·7	46·0	39·5	72·0	27·4	..	..	6·5	12·8	4·4	+ 3·4	NE	SE	0·0	0·0	0·0	30	0·00
29	..	29·618	55·0	40·8	47·1	38·8	60·0	36·2	..	..	8·3	14·8	5·5	+ 5·3	SE; E	S; SE	0·0	0·0	0·0	65	0·05
30	..	29·058	55·8	45·0	48·3	42·5	68·8	37·3	..	..	5·8	10·2	2·6	+ 5·3	SE	SW	4·0	0·0	0·3	170	0·15
31	Greatest Declination N.	29·127	54·1	44·5	47·4	42·1	64·0	38·3	..	..	5·3	11·6	3·2	+ 4·0	W	WSW	0·0	0·0	0·0	65	0·04
																				Sum	Sum
Means	..	29·720	50·2	35·9	41·8	36·4	61·4	27·5	..	..	5·4	11·6	2·6	+ 0·5	...	...	..	..	..	2725	0·97

BAROMETER READINGS.

The absolute maximum in the month was 30in·433 on the 1st; the first minimum in the month was 29in·369 on the 8th.
The second maximum ,, was 29in·915 on the 12th; the absolute minimum ,, was 28in·968 on the 14th.
The third maximum ,, was 29in·892 on the 16th; the third minimum ,, was 29in·619 on the 18th.
The fourth maximum ,, was 29in·896 on the 21st; the fourth minimum ,, was 29in·323 on the 25th.
The fifth maximum ,, was 29in·899 on the 27th; the fifth minimum ,, was 29in·025 on the 30th.
The range in the month was 1in·465.
The mean for the month was 29in·720, being 0in·086 *lower* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 66°·2 on the 18th; the lowest was 27°·7 on the 22nd; and the range in the month was 38°·5.
The mean ,, of all the highest daily readings was 50°·2, being 0°·5 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 35°·9, being 0°·9 *higher* than the average of the preceding 17 years.
The mean daily range was 14°·3, being 0°·3 *lower* than the average of the preceding 17 years.
The mean for the month was 41°·8, being 0°·2 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Mar. 1	s, g cur	s, g cur	o, f : 10	10
2	s	s	10, f	10
3	s	s	10	10 : f
4	v	v	10	10
5	w	w	10, s, li.-cl : o	o : 10, ci.-cu, ci.-s, sc
6	v	v	7 : 10	10
7	ss, sps, g cur	ss, sps, g cur	v	v : 10, lu.-ha
8	w		o : 10, sn, hl, r	10, sn, hl, r : o
9	ss, sps, g cur	ss, sps, g cur	7, ci.-cu, ci-s, sn	7, ci.-cu, ci.-s, hl, sn : 10, sn
10		w : s	10, cu, ci.-cu, li.-cl, sn	10, ci.-cu, ci.-s, sn : 10
11	m	m	10	10 : 10, ci.-cu, ci
12	m	m	10	10, ci.-cu, ci, r : 7
13	m	w	7, ci.-s, ci	10, r : o
14			10, r : o	10, ci.-cu, ci.-s, shs.-r
15			o : 10, shs, hl, r : o	10, sqs, hl : o
16		v : s	o	5, cu, sl.-r : o
17	w	v	o	10 : o
18	o	w	o	10
19	w	o	10, r	10, r
20	o	o	10, r	10 : o
21	o	o : w	5, ci.-cu	5, cu, ci.-cu, li.-cl
22	o	o	10, cu.-s, ci.-s, s, sn	10, ci.-s, s, sn, hl
23	o	w : o	5, cu, ci.-cu, oc.-sn	5, cu, ci.-cu, cu.-s : o
24	o : w	w : o	5, cu	5, cu, ci.-cu, ci.-s : 10
25	o	o	10, sl.-r	10, sl.-r
26	s : o	o : w	o : 5	5, ci.-cu, li.-cl : o, h
27	w : o	w : o	10, f	10
28	w	w : s	10 : 5, ci.-cu, ci.-s	10, ci.-cu, ci.-s
29	w : o	o : w	10, oc.-r	10 : oc.-r
30	o : w	N, w : o	5, cu, ci.-cu : 10, shs.-r	10, shs.-r
31	w	w : s	10, r	10, ci.-cu, ci.-s : fr.-h.-shs

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 50°·6 on the 18th; and the lowest was 27°·5 on the 21st.

The mean ,, was 36°·4, being 0°·1 *greater* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0^{in}·215, being 0^{in}·001 *less* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2^{gr}·5, being the same as the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 82 (that of Saturation being represented by 100), being the same as the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 549 grains, being 2 grains *less* than the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 7·8.

WIND.

The proportions were of N. 3, S. 11, W. 10, and E. 7. The greatest pressure in the month was 13^{lbs}·0 on the square foot on the 14th.

RAIN.

Fell on 10 days in the month, amounting to 1^{in}·0, as measured in the simple cylinder gauge partly sunk below the ground; being 0^{in}·4 *less* than the average fall of the preceding 17 years.

ELECTRICITY.—Jan 14 and 15. The insulating lamp was not burning.

MONTH and DAY, 1857.	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 43 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
April 1	First Qr.	29·290	56·8	40·1	47·0	39·6	76·5	30·6	..	..	7·4	14·6	3·5	+ 3·4	SW	W ; SE	0·0	0·0	0·0	120	0·01
2	..	29·136	58·1	44·7	48·7	42·4	71·3	40·2	..	..	6·3	13·4	3·1	+ 4·6	SE ; SSW	SSE	5·0	0·0	1·3	150	0·02
3	..	29·475	58·4	42·6	48·8	43·1	73·5	34·1	..	..	5·7	11·6	3·6	+ 4·3	SSE	SW	0·0	0·0	0·0	75	0·03
4	..	29·633	53·8	40·8	47·6	46·2	58·0	32·1	..	..	1·4	5·4	0·0	+ 2·8	SW ; SE	SE	0·0	0·0	0·0	85	0·15
5	..	29·469	65·0	49·5	55·3	48·7	72·5	47·0	..	..	6·6	14·2	1·7	+10·2	SE	SE	0·0	0·0	0·0	30	0·15
6	..	29·532	63·2	47·2	53·8	49·6	75·8	46·8	..	..	4·2	10·6	1·5	+ 8·4	Calm ; SW	SW	0·0	0·0	0·0	70	0·04
7	In Equator	29·799	62·0	44·3	50·7	47·3	75·0	35·4	..	..	3·4	8·9	1·8	+ 5·2	SW	SW	2·0	0·0	0·1	100	0·09
8	..	29·739	60·5	46·0	51·0	45·3	79·0	38·8	..	..	5·7	10·3	1·5	+ 5·5	SW	SW	2·0	0·0	0·1	105	0·00
9	Full	29·431	61·7	43·2	49·7	45·0	77·2	33·9	..	..	4·7	12·4	2·5	+ 4·3	SE	SE ; Calm	0·0	0·0	0·0	25	0·13
10	..	29·297	61·6	37·3	48·1	42·7	70·7	26·5	..	..	5·4	12·2	2·1	+ 3·0	Calm	Calm	0·0	0·0	0·0	40	0·02
11	Apogee	29·369	46·4	38·2	40·7	36·9	50·7	40·0	..	..	3·8	6·9	0·2	— 4·4	Calm ; NW	NW ; SW	3·0	0·0	0·2	135	0·10
12	..	29·233	53·7	35·8	40·8	34·7	71·9	25·9	..	..	6·1	9·2	4·8	— 4·1	W; SW	W ; SW	4·0	0·0	0·4	225	0·02
13	..	28·903	46·0	33·0	36·8	33·4	53·8	29·8	..	..	3·4	7·9	0·0	— 8·4	NW	NW	5·0	0·0	1·0	185	0·19
14	..	29·243	51·2	33·0	40·9	33·8	62·7	26·5	..	..	7·1	16·2	5·1	— 4·6	NW	NW ; Calm	2·0	0·0	0·2	60	0·03
15	Greatest Declination S.	29·477	53·8	31·4	40·4	35·0	75·8	21·7	..	..	5·4	12·8	3·2	— 5·3	SW	Calm	2·0	0·0	0·1	65	0·04
16	..	29·700	50·5	33·0	40·8	38·9	79·8	23·2	..	..	1·9	6·7	0·7	— 5·2	Calm	S	0·0	0·0	0·0	70	0·09
17	Last Qr.	29·814	60·0	33·0	46·5	44·5	75·0	24·9	..	..	2·0	10·6	1·8	+ 0·3	SE	SW	2·0	0·0	0·1	135	0·01
18	..	29·799	68·5	48·1	57·4	46·3	86·7	36·8	..	..	11·1	18·5	8·2	+11·0	SW	SE	0·0	0·0	0·0	135	0·00
19	..	29·895	69·0	48·0	56·4	47·8	92·7	37·0	..	..	8·6	18·7	5·2	+ 9·9	SE ; SW	SW	1·5	0·0	0·1	115	0·00
20	..	30·112	66·8	41·3	53·1	44·4	91·2	28·3	..	..	8·7	16·9	1·5	+ 6·4	SW ; Calm	W ; N	0·0	0·0	0·0	85	0·00
21	..	30·116	62·0	40·9	50·3	40·6	79·5	28·6	..	..	9·7	19·8	2·2	+ 3·3	SW ; NW	N ; NW	2·0	0·0	0·2	120	0·00
22	In Equator	29·856	50·9	44·9	47·0	44·8	64·1	35·2	..	..	2·2	3·6	1·7	— 0·5	W	W ; N	0·0	0·0	0·0	50	0·28
23	..	29·831	48·7	36·5	40·1	34·6	53·2	32·8	..	..	5·5	12·4	2·3	— 7·5	N	NE	0·0	0·0	0·0	60	0·04
24	New Perigee	29·804	50·6	28·2	38·6	35·2	67·2	15·9	..	..	3·4	9·7	2·0	— 9·0	N ; NE	SE	0·0	0·0	0·0	50	0·00
25	..	29·557	49·0	34·1	40·5	33·1	64·0	31·1	..	..	7·4	13·4	5·0	— 7·1	SE	ENE	0·0	0·0	0·0	110	0·00
26	..	29·794	44·1	34·2	37·0	30·6	51·0	26·9	..	..	6·4	14·3	5·1	—10·6	NE	NE	3·5	0·0	0·3	165	0·00
27	..	29·901	47·8	36·2	39·8	32·0	56·7	32·2	..	..	7·8	15·8	6·4	— 8·2	NNE	NNE	1·5	0·0	0·1	100	0·00
28	Greatest Declination N.	29·913	47·2	37·0	40·4	32·8	55·5	31·5	..	..	7·6	15·5	6·6	— 8·1	NNE	NE ; Calm	0·0	0·0	0·0	15	0·00
29	..	29·910	55·0	29·1	41·0	34·3	72·0	18·2	..	..	6·7	20·8	4·4	— 8·1	Calm ; NE	N by E	0·0	0·0	0·0	50	0·00
30	..	29·939	52·8	33·0	41·6	37·1	71·5	19·0	..	..	4·5	14·0	0·2	— 7·9	NNE	NE	0·0	0·0	0·0	15	0·00
Means	..	29·632	55·8	38·8	45·7	40·0	70·1	31·0	..	..	5·7	12·6	2·9	— 0·5	...	...	..	..	..	Sum 2745	Sum 1·44

BAROMETER READINGS.

The first maximum in the month was 29in·351 on the 1st; the first minimum in the month was 29in·037 on the 2nd.
The second maximum ,, was 29in·662 on the 4th; the second minimum ,, was 29in·437 on the 5th.
The third maximum ,, was 29in·820 on the 7th; the third minimum ,, was 29in·274 on the 10th.
The fourth maximum ,, was 29in·418 on the 11th; the absolute minimum ,, was 28in·821 on the 13th.
The absolute maximum ,, was 30in·136 on the 21st; the fifth minimum ,, was 29in·521 on the 25th.
The range in the month was 1in·315.
The mean for the month was 29in·632, being 0in·111 *lower* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 69°·0 on the 19th; the lowest was 28°·2 on the 24th; and the range in the month was 40°·8.
The mean of all the highest daily readings was 55°·8, being 1°·2 *lower* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 38°·8 being 0°·1 *lower* than the average of the preceding 17 years.
The mean daily range was 17°·0, being 1°·2 *lower* than the average of the preceding 17 years.
The mean for the month was 45°·7, being 0°·9 *lower* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
April 1	s	w	5, ci.-cu, s	5 : 10 th.-r.
2	w	w	10, th.-r	10, cu, ci.-cu : 5, shs.-r, lu.-co
3	s	s	10, ci.-cu, s, sl-r	10, cu, ci.-cu, ci.-s : 5, fr.-shs
4	o	o	10, th.-r	10, shs.-r
5	o	o : w	10, ci.-cu, ci-r	10, ci.-cu, ci, shs.-r
6	o	o : m	10, ci-cu, cu-s, li-cl	10, cu, ci.-cu, ci.-s, lu.-co
7	o	s N, s P, sps, g cur : o	10	v, cu, ci.-cu, shs.-r, t
8	v	v	10, cu, ci-cu, ci	10, cu, ci.-cu, ci : 5
9	ss, sps, g cur	o	10, r	10, sl.-r
10	m	m : s N, sps, g cur	10, cu, s	7, cu, cu.-s, l, t : 10
11	o	o : w	10, r	10, r : o
12	s	s : s N, g cur	o : 10, cu, s, sl, hl	10 : 10, cu, ci.-cu, h.-r
13	o	o : s	10, sl-r	10, sl.-r : 10, h.-sqs, sn, r
14	o	o : w	10, cu, ci.-cu	10, cu, ci.-cu. ci : 10, f
15	o	ss, sps, g cur	o : 10, sh,-hl,-r	10, h, sh.-r : o
16	s N, sps, g cur	s N, s P, sps, g cur	10, ci-cu, ci, li.-cl : h.-shs.-r	10, shs, hl, r : o
17	o	w	10, ci.-cu, ci, s	o
18	o	w	o	3 : o
19	v	v	0, h	2, ci-cu
20	v	v	7, h	7, cu, ci.-cu, ci.-s
21	s	w	7, ci.-cu, ci	7 : o
22	o	w N	10, m.-r	10, m.-r : h.-r : 10
23	o	o : w	10, m.-r	10, ci-cu, ci.-s : o
24	P, N, v	P, N, v	o : 10, cu, ci.-cu, hl	10, cu, ci.-cu, shs.-hl.
25	v	v	10, ci.-cu, ci.-s	10, ci.-cu, s, ci.-s : v
26	v	v	10	10, shs, hl, r
27	m	w N : m	10	10
28	v	v	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s
29	v	v	o : 7, cu, ci.-cu	7, cu, ci.-cu : 10
30	w	w : s	10, cu, ci.-cu	10, cu, ci.-cu : oc.-shs.-r

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 53°·2 on the 19th; and the lowest was 31°·2 on the 26th.
The mean ,, was 40°·0, being 0°·1 *less* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0^{in}·247, being 0^{in}·003 *less* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2^{gr}·8, being 0^{gr}·1 *less* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 82 (that of Saturation being represented by 100), being 3 *greater* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 543 grains, being 1 grain *less* than the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 7·8.

WIND.

The proportions were of N. 6, S. 10, W. 7, and E. 7. The greatest pressure in the month was 5^{lbs}·0 on the square foot on the 13th.

RAIN.

Fell on 18 days in the month, amounting to 1^{in}·4, as measured in the simple cylinder gauge partly sunk below the ground; being 0^{in}·9 *less* than the average fall of the preceding 17 years.

MONTH and DAY, 1857.	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 43 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.
May 1	First Qr.	29·958	56·7	36·7	44·5	37·9	79·6	32·8	..	..	6·6	12·8	3·1	— 5·5	N	NE; Calm	0·0	0·0	0·0	15	0·00
2	..	29·970	59·0	39·3	46·4	40·1	85·0	30·0	..	..	6·3	13·2	3·1	— 4·1	Calm	E	0·0	0·0	0·0	35	0·00
3	..	30·002	57·8	32·0	42·3	37·3	79·8	18·8	..	..	5·0	10·9	3·7	— 8·6	NE	NE	2·0	0·0	0·1	55	0·00
4	..	30·010	57·3	31·5	42·6	35·8	75·5	20·0	..	..	6·8	14·4	4·1	— 8·7	NE	NE	1·0	0·0	0·0	60	0·00
5	In Equator	30·108	55·5	31·6	42·8	36·1	77·7	18·8	..	..	6·7	12·6	3·1	— 8·8	NE	N; SE	0·0	0·0	0·0	30	0·00
6	..	30·082	57·5	33·2	44·8	37·6	80·7	21·9	..	..	7·2	15·0	4·1	— 7·0	NE	ESE	1·0	0·0	0·1	55	0·00
7	..	30·027	58·0	32·1	44·1	38·3	73·0	18·1	..	..	5·8	13·0	4·1	— 7·8	NE	NE	0·0	0·0	0·0	50	0·00
8	Apogee	29·847	62·0	34·4	47·0	38·6	85·0	24·0	..	..	8·4	17·7	2·0	— 4·8	NE	NE	0·0	0·0	0·0	75	0·00
9	Full	29·657	65·3	36·3	50·1	43·5	84·8	24·5	..	..	6·6	18·2	0·5	— 1·5	NE	NE	2·5	0·0	0·2	75	0·00
10	..	29·552	56·3	39·1	47·9	45·5	61·5	23·8	..	..	2·4	10·4	1·8	— 3·5	NE	NE	2·0	0·0	0·1	50	0·00
11	..	29·554	72·0	45·8	56·2	51·1	93·5	36·1	..	..	5·1	14·4	2·7	+ 4·9	ENE	Calm; S	0·0	0·0	0·0	55	0·05
12	Greatest Declination S.	29·864	66·0	45·8	54·9	50·1	82·0	34·1	..	..	4·8	12·0	2·7	+ 3·6	S; SW	SSW	0·0	0·0	0·0	80	0·03
13	..	29·911	70·5	53·0	58·6	50·4	82·3	50·7	..	..	8·2	15·8	5·0	+ 7·2	SW	Calm; E	0·0	0·0	0·0	60	0·00
14	..	29·866	69·1	49·0	58·5	49·9	89·4	42·0	..	..	8·6	14·8	5·6	+ 6·7	E	E	0·0	0·0	0·0	65	0·00
15	..	29·935	78·0	45·4	62·5	50·3	80·5	..	..	..	12·2	23·1	0·6	+10·3	E	Calm	0·0	0·0	0·0	25	0·00
16	Last Qr.	29·977	80·2	54·7	64·6	52·2	96·0	..	..	..	12·4	18·5	4·6	+12·0	Calm	W	0·0	0·0	0·0	65	0·00
17	..	29·931	77·5	46·5	61·6	47·3	..	38·0	..	..	14·3	24·5	3·4	+ 8·8	SW	W	0·0	0·0	0·0	5	0·00
18	..	29·857	79·0	45·0	62·6	50·8	..	34·4	..	..	11·8	27·2	5·1	+ 9·5	SW	SW	0·0	0·0	0·0	115	0·00
19	In Equator	29·806	74·0	49·1	59·8	50·5	98·0	..	..	..	9·3	18·7	3·4	+ 6·5	SW	SW	1·5	0·0	0·1	155	0·00
20	..	29·664	74·5	49·7	58·9	51·1	..	..	..	..	7·8	16·0	2·9	+ 5·3	SW	SW	2·2	0·0	0·2	100	0·00
21	..	29·555	68·0	52·1	59·9	50·3	74·4	..	..	..	9·6	14·2	3·0	+ 6·1	SW	SW	1·0	0·0	0·0	80	0·00
22	Perigee	29·704	59·3	49·5	52·8	48·4	69·3	42·0	..	..	4·4	9·7	1·2	— 1·3	Calm	NE	0·0	0·0	0·0	55	0·28
23	New	29·428	67·8	50·0	56·7	54·8	75·7	46·3	..	..	1·9	6·1	0·6	+ 2·4	NE	NE; Calm	0·0	0·0	0·0	40	0·07
24	..	29·406	68·2	51·2	56·3	47·9	89·2	51·0	..	..	8·4	19·4	3·0	+ 1·9	SW	Calm	0·0	0·0	0·0	110	0·00
25	Greatest Declination N.	29·304	73·2	48·2	59·3	48·8	93·5	40·0	..	..	10·5	22·7	2·0	+ 4·7	SE	SE; SW	2·5	0·0	0·3	125	0·12
26	..	29·477	69·8	46·6	55·6	47·2	88·2	39·8	..	..	8·4	15·0	1·5	+ 0·9	S	S	0·0	0·0	0·0	70	0·00
27	..	29·633	71·5	45·4	57·1	47·3	92·4	37·5	..	..	9·8	17·6	1·8	+ 2·2	S; SW	SW	0·0	0·0	0·0	35	0·00
28	..	29·679	74·0	42·9	58·2	49·5	93·0	33·6	..	..	8·7	20·5	2·0	+ 3·0	SW; NE	E	0·0	0·0	0·0	50	0·00
29	..	29·790	64·4	49·7	55·6	49·8	76·5	46·7	..	..	5·8	12·4	2·7	+ 0·2	E	NE	0·0	0·0	0·0	50	0·00
30	First Qr.	29·889	68·1	50·9	55·9	46·8	95·0	48·7	..	..	9·1	13·7	2·8	+ 0·2	N	NE	0·0	0·0	0·0	90	0·00
31	In Equator	29·930	69·5	45·9	56·2	45·7	93·5	37·8	61·7	..	10·5	20·5	3·8	+ 0·1	NE	NE	0·0	0·0	0·0	60	0·00
																				Sum	Sum
Means	..	29·786	67·1	44·0	54·0	46·2	83·8	34·3	..	..	7·8	16·0	2·9	+ 1·1	...	...	..	..	..	1990	0·55

BAROMETER READINGS.

The absolute maximum in the month was 30in·116 on the 5th; the first minimum in the month was 29in·513 on the 11th.
The second maximum ,, was 30in·005 on the 16th; the absolute minimum ,, was 29in·252 on the 25th.
The third maximum ,, was 29in·951 on the 31st.
The range in the month was 0in·864
The mean for the month was 29in·786, being 0in·022 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 80°·2 on the 16th; the lowest was 31°·5 on the 4th; and the range in the month was 48°·7.
The mean ,, of all the highest daily readings was 67°·1, being 2°·9 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 44°·0, being 0°·2 *lower* than the average of the preceding 17 years.
The mean daily range was 23°·1, being 3°·1 *higher* than the average of the preceding 17 years.
The mean for the month was 54°·0, being 1°·1 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY. A.M.	ELECTRICITY. P.M	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
May 1	w	w	10, r	5, cu, ci.-cu : 10
2	v	v	0, h : 10, th.-r	10
3	s	s	5, cu, cu.-s	5, cu : 0
4	w	w : s	10, ci.-cu, ci.-s	5, ci.-cu, ci.-s : 0
5	w	w	5, cu, ci.-cu, li. cl : 10, ci.-cu, cu.-s	10, ci.-cu, cu.-s, ci.-s, sl.-r
6	v	v	5, cu, cu.-s, li.-cl	5, cu, ci.-cu : 0
7	w	w : s	10, cu, ci.-cu, ci.-s	10, cu, ci.-cu, s : 0
8	m	m	5, cu	5, cu, ci.-cu : 0
9	s : w N	s	0 : 10, r	10, oc.-r : 0
10	0	0	10, shs.-r	10, ci.-s, oc.-r
11	0	0 : m	10, sl.-r	10, cu, ci.-cu, ci.-s 0, l
12	0	0 : w	10	10, ci.-cu, ci.-s, r
13	v	v	7, ci.-cu, li.-cl	10, ci.-cu, ci.-s : 0
14	m	m	0	0
15	w	w	2, ci.-s, ci	2, ci.-s, ci : 10, l
16	w	w	10, ci.-cu, ci.-s	10 : l
17	w	w	0, h	0
18	v	v	0	0
19	v	v	5, ci.-cu, li.-cl	5, cu, ci.-cu : 0
20	w	w	10 : 0	0 : 7, cu, ci.-cu
21	v	v	10, r	10, ci.-cu, li.-cl : 7, th.-r
22	ss N, ss P	ss N, ss P	10, th.-r	10, h.-r
23	w	w	10, m.-r	10, ci.-cu, ci.-s, ci : th.-r
24	0	0 : w	7, cu, ci.-cu	7, cu, ci.-cu : 0
25	0	w : 0	3, ci.-cu	7, ci.-cu : 10, r
26	w	w	10, ci.-cu, cu.-s, th.-r : 5, ci.-cu, ci.-s	5, cu, ci.-cu, ci
27	m	m	7, cu, ci.-cu	5, cu, ci.-s
28	m	m : s	10, ci.-s, ci	10, ci.-cu, ci : 0
29	s	s	10	10
30	w	w	10, ci.-cu, ci.-s	10, ci.-s, th.-r : 0
31	0	0	0	0

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 57°·6 on the 16th; and the lowest was 34°·6 on the 4th.

The mean ,, was 46°·2, being 0°·7 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}·313$, being $0^{in}·013$ *greater* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $3^{gr}·5$, being $0^{gr}·1$ *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 75 (that of Saturation being represented by 100), being 2 *less* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 537 grains, being 2 grains *less* than the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0, and a cloudy sky by 10, was 6·1.

WIND.

The proportions were of N. 8, S. 6, W. 4, and E. 13. The greatest pressure in the month was $2^{lbs}·5$ on the square foot on the 9th.

RAIN.

Fell on 5 days in the month, amounting to $0^{in}·6$, as measured in the simple cylinder gauge partly sunk below the ground; being $1^{in}·4$ *less* than the average fall of the preceding 17 years.

MONTH and DAY, 1857.	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.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in
June 1	..	29·864	68·0	39·3	54·2	45·6	89·5	30·8	60·4	..	8·6	19·3	5·8	— 2·2	NE	E	2·0	0·0	0·0	55	0·00
2	..	29·727	71·8	42·8	56·8	46·7	97·3	29·6	61·7	..	10·1	20·7	6·6	+ 0·2	E; SE	SW	0·0	0·0	0·0	65	0·00
3	..	29·841	72·0	48·3	57·1	53·0	94·0	40·3	62·8	60·2	4·1	9·9	3·2	+ 0·3	SW	SW	2·5	0·0	0·1	145	0·05
4	Apogee	29·985	78·6	55·3	64·5	52·9	103·0	38·7	62·2	60·7	11·6	18·7	8·9	+ 7·4	SW	SW; S	0·0	0·0	0·0	90	0·00
5	..	29·925	82·9	49·8	67·3	54·3	106·7	41·8	64·4	61·2	13·0	26·2	10·8	+ 10·2	S	S; Calm	0·0	0·0	0·0	60	0·00
6	..	29·866	76·5	58·4	68·5	58·6	103·3	56·5	64·7	64·2	9·8	20·6	2·0	+ 11·2	Calm	Calm	0·0	0·0	0·0	30	0·18
7	Full	29·636	70·9	58·0	62·2	59·1	81·8	59·8	64·7	64·0	3·1	9·4	1·5	+ 4·9	SE	SW	2·0	0·0	0·3	270	0·23
8	Greatest Declination S.	29·618	69·0	52·4	58·0	50·2	88·0	46·6	65·2	63·2	7·8	20·5	2·0	+ 0·6	SW	SW	3·5	0·0	1·0	225	0·30
9	..	29·626	69·6	49·0	56·6	50·0	92·2	48·2	65·7	63·2	6·6	18·5	0·8	— 0·9	SW	SW	2·0	0·0	0·3	120	0·14
10	..	29·451	67·3	46·4	54·4	47·6	90·0	40·0	63·2	62·7	6·8	15·3	1·4	— 3·3	WSW	W	0·0	0·0	0·0	155	0·04
11	..	29·772	68·5	46·6	54·4	44·9	89·0	40·0	63·7	62·2	9·5	21·4	1·9	— 3·6	W; NW	N	1·5	0·0	0·0	85	0·00
12	..	30·064	68·5	40·7	53·1	45·5	94·0	36·5	62·7	62·2	7·6	18·2	3·2	— 5·2	N; NE	NE; SE	0·0	0·0	0·0	25	0·00
13	..	30·138	68·0	38·9	53·5	45·1	95·0	31·0	62·7	62·2	8·4	18·4	0·7	— 5·0	SE; E	SE	0·0	0·0	0·0	50	0·00
14	..	29·943	69·0	38·8	54·2	47·8	95·0	29·5	63·5	63·2	6·4	15·3	4·3	— 4·6	SE	E	1·0	0·0	0·0	110	0·00
15	Last Quarter; In Equator.	29·802	67·4	45·7	56·3	45·5	88·5	35·8	62·2	62·0	10·8	19·4	6·2	— 2·7	SE	E	3·0	0·0	0·6	135	0·00
16	..	29·798	70·9	45·5	57·5	46·4	92·2	38·7	61·7	60·7	11·1	23·0	6·2	— 1·8	NE	NE	2·0	0·0	0·3	145	0·00
17	..	29·940	75·7	51·7	60·8	49·4	95·0	..	62·7	62·0	11·4	20·7	4·8	+ 1·4	NE	NE	1·3	0·0	0·0	100	0·00
18	..	30·015	75·0	46·3	59·2	52·0	96·0	..	63·7	61·7	7·2	17·9	5·8	— 0·3	NE	NE	1·0	0·0	0·0	115	0·00
19	..	29·869	83·7	49·6	65·2	56·3	106·0	..	63·2	63·2	8·9	21·3	2·3	+ 5·6	NE	E	1·8	0·0	0·4	100	0·00
20	Perigee	29·809	84·0	59·5	69·1	60·9	93·5	..	64·7	63·2	8·2	13·8	1·0	+ 9·3	E	Calm	0·0	0·0	0·0	20	0·85
21	New; Greatest Dec. N.	29·838	80·0	60·3	67·9	61·4	100·5	56·0	64·1	62·7	6·5	17·7	1·7	+ 8·0	Calm	SW	0·0	0·0	0·0	40	0·21
22	..	30·006	72·8	55·0	60·8	57·2	89·0	57·0	64·7	63·7	3·6	11·5	1·2	+ 0·8	W	Calm	0·0	0·0	0·0	5	0·00
23	..	30·068	82·5	55·7	66·6	60·9	105·0	..	64·7	63·2	5·7	16·9	0·6	+ 6·4	Calm	E	0·0	0·0	0·0	20	0·00
24	..	30·141	83·0	54·0	68·2	55·2	109·0	49·2	66·2	63·2	13·0	25·3	0·0	+ 7·8	Calm	E	0·0	0·0	0·0	40	0·00
25	..	30·245	84·8	50·7	67·5	54·6	108·6	42·7	66·7	64·2	12·9	28·1	2·1	+ 6·9	E; NE	SE	0·0	0·0	0·0	20	0·00
26	..	30·156	86·6	51·8	69·1	58·8	113·3	44·0	69·7	67·2	10·3	30·1	1·4	+ 8·3	SE	Calm	0·0	0·0	0·0	30	0·00
27	..	30·954	88·5	53·5	71·0	59·5	116·0	..	71·7	68·5	11·5	33·4	1·8	+ 10·0	Calm	Calm	0·0	0·0	0·0	25	0·00
28	In Equator	29·679	92·7	55·3	73·7	62·6	119·0	..	72·4	70·0	11·1	35·4	4·2	+ 12·4	Calm	SW	1·5	0·0	0·0	145	0·00
29	First Qr.	29·547	76·5	58·6	65·2	57·9	96·6	52·5	70·9	68·2	7·3	20·9	4·2	+ 3·7	SW	SW	1·5	0·0	0·3	125	0·00
30	..	29·428	74·2	56·9	61·7	57·0	92·2	57·2	69·9	66·4	4·7	9·4	2·3	+ 0·2	S	SW	0·0	0·0	0·0	55	0·09
Means	..	29·858	76·0	50·5	61·8	53·2	98·0	43·6	64·9	63·5	8·6	19·9	3·3	+ 2·9	...	...	..	..	..	Sum 3605	Sum 2·09

BAROMETER READINGS.

The first minimum in the month was 29in·716 on the 2nd.
The first maximum in the month was 29in·991 on the 4th; the absolute minimum ,, was 29in·396 on the 10th.
The second maximum ,, was 30in·175 on the 13th; the third minimum ,, was 29in·780 on the 16th.
The third maximum ,, was 30in·036 on the 18th; the fourth minimum ,, was 29in·788 on the 20th.
The absolute maximum ,, was 30in·254 on the 25th; the fifth minimum ,, was 29in·411 on the 30th.
The range in the month was 0in·858.
The mean for the month was 29in·858, being 0in·063 *lower* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 92°·7 on the 28th; the lowest was 38°·8 on the 14th; and the range in the month was 53°·9.
The mean ,, of all the highest daily readings was 76°·0, being 5°·4 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 50°·5, being 0°·7 *higher* than the average of the preceding 17 years.
The mean daily range was 25°·5, being 5°·3 *higher* than the average of the preceding 17 years.
The mean for the month was 61°·8, being 3°·2 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
June 1	o	w : o	5, cu, ci.-cu, ci.-s : o	o
2	m	m	o	5, cu, ci.-cu : o
3	w	sN sps, g cur : m	10, th.-r	10, h.-r
4	w	w	5, cu, ci.-cu	5, cu, ci.-cu, ci : o
5	m	m	o	3, ci.-s, ci : o
6	w	ssN,ssP,sps,g cur: o	8, ci.-cu	10, r, t
7			10, h.-r	10
8			10	7, oc.-sqs, w, r : o
9			10, cu, ci.-cu, cu.-s : th.-r	10, cu, ci.-cu, ci.-s, r
10			10, r	8
11			10, ci.-cu, ci.-s : th.-r	10, ci.-cu, ci.-s :
12			3, ci.-cu : o	o
13			o	o
14			o	o
15			o	o
16			o	10, ci.-s : th.-r
17			10, ci.-cu, ci.-s	10, ci.-cu, ci.-s : 5
18			o	o
19			o	o : 10, ci.-cu, ci -s, r, l
20			10, ci.-cu, ci.-s, t-s	10, cu, ci.-cu, ci.-s
21			7, r, h	7, cu, ci.-cu, h
22			10	o
23			o, h	o
24			o	o
25			o	o
26			o	o
27			o	o
28			o	7, cu, ci.-s
29			10, cu, ci.-cu, ci.-cl	10, cu, ci.-cu, ci.-s
30			10, h.-r	10, shs.-r : 10, cu, ci.-cu, ci.-s, l

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 66°·8 on the 28th; and the lowest was 42°·0 on the 11th.

The mean ,, was 53°·2, being 2°·7 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}.406$, being $0^{in}.039$ *greater* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $4^{gr}.5$, being $0^{gr}.5$ *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 74 (that of Saturation being represented by 100), being the same as the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 530 grains, being 1 grain *less* than the average of the preceding 17 years.

CLOUDS.

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

WIND.

The proportions were of N. 5, S. 11, W. 5, and E. 9. The greatest pressure in the month was $3^{lbs}.5$ on the square foot on the 8th.

RAIN.

Fell on 9 days in the month, amounting to $2^{in}.1$, as measured in the simple cylinder gauge partly sunk below the ground; being $0^{in}.3$ *greater* than the average fall of the preceding 17 years.

ELECTRICITY.—The electrical apparatus was under repair from June 7 to July 1 inclusive.

MONTH and DAY, 1857.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M., next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Wheewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
July 1	..	29·651	68·5	53·0	59·0	55·4	84·0	..	68·9	66·5	3·6	12·4	1·2	— 2·5	Calm	NE	0·0	0·0	0·0	90	0·01
2	Apogee	29·893	66·2	52·1	57·0	50·5	77·7	..	68·2	66·2	6·5	15·5	2·6	— 4·4	NE	Calm	0·0	0·0	0·0	15	0·03
3	..	29·842	70·1	52·2	59·8	50·5	89·0	45·7	69·2	67·2	9·3	17·1	3·0	— 1·6	S	SW	0·0	0·0	0·0	130	0·00
4	..	29·706	68·0	55·9	60·8	56·9	71·0	53·4	68·7	66·2	3·9	8·9	1·7	— 0·7	SW	SW	1·3	0·0	0·1	85	0·15
5	..	29·593	69·4	57·5	61·6	57·8	79·0	53·0	65·7	61·4	3·8	10·4	2·3	0·0	SW	S; SW	1·5	0·0	0·0	125	0·12
6	Greatest Declination S.	29·556	70·2	49·5	59·0	50·2	75·0	..	67·5	65·2	8·8	17·3	0·4	— 2·7	SW	NNW	3·0	0·0	0·3	125	0·12
7	Full	29·770	66·0	47·4	54·7	46·5	80·9	..	67·7	62·7	8·2	14·4	1·3	— 7·1	NW	NW	1·0	0·0	0·0	100	0·00
8	..	29·802	66·9	45·7	55·1	47·5	83·5	..	66·2	63·6	7·6	12·7	4·2	— 6·6	NW	NW; W	0·0	0·0	0·0	80	0·00
9	..	29·749	73·5	47·9	59·6	48·2	95·0	..	65·7	62·2	11·4	19·8	6·9	— 1·9	W	NW	0·0	0·0	0·0	75	0·00
10	..	29·813	79·0	51·3	62·0	54·8	104·8	..	65·5	63·5	7·2	19·7	2·8	+ 0·5	SW	SW	2·0	0·0	0·1	115	0·00
11	..	29·930	79·4	56·6	65·4	55·5	104·7	..	66·2	62·7	9·9	17·5	4·4	+ 3·8	SW	SW	0·5	0·0	0·0	90	0·00
12	In Equator	30·133	84·5	53·4	68·2	57·8	111·0	46·2	65·7	62·2	10·4	26·9	2·2	+ 6·5	SW	SW	1·5	0·0	0·0	75	0·00
13	..	30·177	84·4	56·0	69·4	57·4	114·0	51·7	67·5	64·4	12·0	27·5	4·6	+ 7·6	SW	W; Calm	0·0	0·0	0·0	50	0·00
14	Last Qr.	30·118	87·7	51·0	69·5	58·1	110·0	48·4	68·9	64·8	11·4	29·0	3·2	+ 7·8	NE	Calm	0·0	0·0	0·0	25	0·00
15	..	29·844	89·7	57·7	72·7	58·2	115·6	52·5	70·3	66·2	14·5	24·0	3·8	+11·0	Calm	W	1·0	0·0	0·1	50	0·00
16	..	29·722	78·0	57·2	66·7	53·9	101·0	50·0	70·7	67·0	12·8	24·0	3·8	+ 5·0	W	NW	3·0	0·0	0·3	90	0·00
17	Perigee	29·938	77·1	50·9	63·0	55·7	102·4	..	71·9	65·2	7·3	23·0	1·0	+ 1·3	W	W; SW	0·0	0·0	0·0	45	0·15
18	..	30·051	81·0	54·6	66·4	58·0	106·0	..	71·9	65·2	8·4	24·0	5·0	+ 4·7	SW	WSW	0·0	0·0	0·0	65	0·00
19	Greatest Declination N.	29·968	83·0	57·0	69·0	59·2	105·0	54·0	71·9	67·2	9·8	21·1	2·0	+ 7·3	Calm	SW	0·0	0·0	0·0	70	0·00
20	..	29·847	84·7	57·3	69·3	58·3	109·8	48·0	71·9	69·2	11·0	25·7	2·3	+ 7·7	Calm; NW	NW	3·0	0·0	0·3	140	0·00
21	New	29·918	78·5	51·7	64·5	54·7	102·2	44·5	71·9	69·2	9·8	25·3	2·7	+ 3·0	W	SW	3·0	0·0	0·5	180	0·03
22	..	29·795	79·8	60·0	66·3	57·3	98·2	..	70·9	66·2	9·0	19·9	2·7	+ 4·8	SW	N	2·0	0·0	0·1	100	0·00
23	..	29·834	86·0	59·5	71·4	59·1	110·0	51·4	71·9	68·2	12·3	22·4	8·3	+ 9·9	SW	W	1·0	0·0	0·0	180	0·00
24	..	29·745	84·6	58·9	70·8	56·8	105·5	..	..	67·8	14·0	24·5	2·9	+ 9·2	SW	SW	5·0	0·0	1·0	335	0·00
25	In Equator	29·687	78·5	59·6	67·0	54·5	96·0	..	..	63·2	12·5	21·6	4·4	+ 5·2	SW	SW	3·0	0·0	0·5	150	0·00
26	..	29·838	79·0	49·9	61·5	53·0	100·0	41·0	..	67·2	8·5	26·2	5·3	— 0·6	W	W	0·0	0·0	0·0	75	0·00
27	..	29·769	78·0	56·1	65·6	58·4	96·0	48·1	..	67·2	7·2	17·7	5·8	+ 3·3	SSW	SW	3·0	0·0	0·5	185	0·00
28	First Qr.	29·813	74·8	58·0	63·7	55·3	89·8	58·2	..	66·2	8·4	19·8	3·2	+ 1·2	SW	N	1·0	0·0	0·0	40	0·60
29	Apogee	29·980	82·0	49·5	64·6	53·5	105·0	42·8	71·4	66·7	11·1	27·9	4·2	+ 2·1	NE	Calm	0·0	0·0	0·0	40	0·00
30	..	29·860	78·7	53·2	65·9	56·9	103·0	46·1	68·4	67·0	9·0	18·9	2·8	+ 3·4	W	SW	2·0	0·0	0·1	160	0·00
31	..	29·900	83·4	62·1	70·8	57·6	109·4	56·3	69·4	66·0	13·2	25·2	6·3	+ 8·3	WSW	W	1·5	0·0	0·0	80	0·00
Means	..	29·847	77·9	54·3	64·5	55·1	97·9	49·5	69·0	65·6	9·4	20·7	3·5	+ 2·8	...	...	..	..	..	Sum 3165	Sum 1·27

BAROMETER READINGS.

The first maximum in the month was 29in·912 on the 2nd; the absolute minimum in the month was 29in·496 on the 5th.
The absolute maximum ,, was 30in·193 on the 13th; the second minimum ,, was 29in·699 on the 16th.
The third maximum ,, was 30in·064 on the 18th; the third minimum ,, was 29in·633 on the 25th.
The fourth maximum ,, was 30in·026 on the 29th; the fourth minimum ,, was 29in·852 on the 30th.
The range in the month was 0in·697.
The mean for the month was 29in·847, being 0in·055 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 89°·7 on the 15th; the lowest was 45°·7 on the 8th; and the range in the month was 44°·0.
The mean ,, of all the highest daily readings was 77°·9, being 4°·6 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 54°·3, being 1°·1 *higher* than the average of the preceding 17 years.
The mean daily range was 23°·6, being 3°·5 *higher* than the average of the preceding 17 years.
The mean for the month was 64°·5, being 2°·8 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
July 1			10, cu, ci.-cu, ci, t	10, th.-r
2	w	w	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s : 0
3	w	w	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s : 10, sl.-r
4	0	0	10, r	10, shs.-r
5	w	0	10, s, ci.-s, shs.-r	10 : oc.-shs.-r
6	w	ss, sps, g cur	10, cu, ci.-cu	10, cu, ci.-cu
7	0	0	10	10
8	0	0 : w	10	10, ci.-cu, ci.-s : 0, f
9	0	0	7, ci.-cu	7, cu, ci.-cu : 0
10	0	ss N,sps, g cur : s	9, ci.-cu, ci.-s	10, ci.-cu, ci.-s h.-r : 0
11	v	v	7, cu, ci.-cu	7 : 10 : 0
12	v	v	0	0
13	w	w : s	0	7, ci.-cu, ci.-s : 0
14	v	v	0	0
15	w	0	0, h	10, cu, ci.-cu, ci.-s : 0
16	v	v	7, ci.-cu	7, cu, cu.-s, ci.-s : 10, h.-r
17	w	w	8, ci.-cu, ci	v, cu, ci.-cu, ci.-s
18	v	v	0	10, cu, ci.-cu : 0
19	0	0	8, ci.-cu, sl.-r	0
20	w	w	5, cu, ci.-cu, ci.-s	5, ci.-cu, ci.-s
21	v	v	7, s, ci-s : 10, cu, ci.-cu	10 : shs.-r
22	0	0	10, ci.-cu, ci.-s : 7, cu, ci.-cu	7, ci.-cu, ci.-s
23	w	w	3, cu, ci.-cu	3, s, ci : 10
24	w : n	w	0	3, ci, ci.-s : 5, ci.-s, ci
25	0	0 : w	10, oc.-r	7, cu, ci.-cu, ci : 0
26	s	s	10, s, ci.-s, oc.-r	7 : h
27	s : w	w : s	10	7, ci.-cu, ci.-s : 10
28	0	0 : w	10, l, t, r : 10, oc.-r	7, cu, ci.-cu : 0, h
29	v	v	0	7, ci.-cu : 0
30	s	s	0, h : 10	10
31	0	v	7, cu, ci.-cu	7 : 0

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 63°·1 on the 20th; and the lowest was 45°·6 on the 7th.
The mean ,, was 55°·1, being 1°·3 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}\cdot434$, being $0^{in}\cdot019$ *higher* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $4^{gr}\cdot9$, being $0^{gr}\cdot3$ *higher* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 73 (that of Saturation being represented by 100), being 3 *less* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 526 grains, being 1 grain *less* than the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 6·4.

WIND.

The proportions were of N. 5, S. 9, W. 16, and E. 1. The greatest pressure in the month was 5^{lbs} on the square foot on the 24th.

RAIN.

Fell on 9 days in the month, amounting to $1^{in}\cdot3$, as measured in the simple cylinder gauge partly sunk below the ground; being $1^{in}\cdot3$ *less* than the average fall of the preceding 17 years.

MONTH and DAY, 1857.	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 43 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Least	Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Aug. 1	..	29·933	79·8	58·3	66·9	57·7	97·0	50·0	69·9	66·5	9·2	21·0	4·0	+ 4·4	SW	SW	0·0	0·0	0·0	80	0·00
2	Greatest Declination S.	29·968	80·7	61·7	68·2	59·3	103·0	45·0	70·4	66·8	9·9	18·9	5·3	+ 5·9	SW	SW	0·0	0·0	0·0	30	0·00
3	..	29·829	88·0	56·0	72·6	57·6	108·0	50·0	70·4	67·8	15·0	27·5	3·2	+10·4	SSW	S; SW	1·5	0·0	0·0	60	0·00
4	..	29·782	87·6	59·9	72·8	59·0	114·0	51·7	71·4	67·7	13·8	23·3	4·4	+10·7	SW	SW; NW	0·0	0·0	0·0	45	0·00
5	Full	29·709	77·2	58·5	64·1	58·3	87·0	..	71·7	68·7	5·8	16·3	1·7	+ 2·1	NW	Calm	0·0	0·0	0·0	15	0·05
6	..	29·566	76·0	57·0	62·7	54·9	95·0	54·0	71·4	68·7	7·8	17·3	3·6	+ 0·7	Calm	SW; N	1·0	0·0	0·0	45	0·52
7	..	29·523	69·5	52·4	58·7	52·5	85·4	52·8	70·9	68·2	6·2	15·7	2·2	— 3·3	Calm	SW	0·0	0·0	0·0	70	0·23
8	..	29·552	65·5	54·3	57·0	52·2	75·0	51·1	69·9	67·7	4·8	11·5	0·8	— 5·0	SW	SW	0·0	0·0	0·0	90	0·05
9	In Equator	29·690	71·0	56·0	60·8	54·8	86·0	54·0	69·2	66·7	6·0	14·2	0·0	— 1·1	WSW	SW	0·0	0·0	0·0	40	0·03
10	..	29·951	78·0	50·5	63·5	56·2	97·6	45·9	69·2	66·7	7·3	18·9	1·3	+ 1·7	SW	W	0·0	0·0	0·0	20	0·00
11	..	29·985	77·5	60·7	66·7	59·1	88·0	54·0	68·7	66·4	7·6	15·1	2·5	+ 5·0	SW	Calm	0·0	0·0	0·0	40	0·11
12	Perigee; Last Quarter	29·959	83·0	58·0	67·4	60·2	103·0	45·0	68·7	67·3	7·2	16·8	2·9	+ 5·8	SW	Calm	0·0	0·0	0·0	15	0·00
13	..	29·744	83·6	57·3	68·6	60·5	105·0	41·5	68·9	67·7	8·1	16·5	4·2	+ 7·1	SE	S; Calm	2·5	0·0	0·0	55	0·00
14	..	29·550	71·5	54·3	60·2	57·8	84·0	49·0	69·8	67·7	2·4	10·6	1·4	— 1·3	Calm	W	3·0	0·0	0·2	45	1·12
15	Greatest Declination N.	29·675	69·4	50·8	58·6	55·2	82·5	41·0	70·9	67·5	3·4	12·4	1·4	— 2·8	SW	Calm	0·0	0·0	0·0	55	0·26
16	..	29·687	83·0	54·5	68·0	61·4	100·0	..	69·9	67·7	6·6	22·8	1·8	+ 6·6	NE	NE	3·0	0·0	0·5	145	0·28
17	..	29·849	73·5	56·7	61·7	52·5	98·8	..	69·2	67·2	9·2	18·2	3·4	+ 0·4	NNE	N	2·0	0·0	0·0	70	0·00
18	..	29·947	75·0	51·7	63·1	54·5	97·7	38·7	69·2	67·0	8·6	18·4	3·4	+ 2·0	N	N; NE	0·0	0·0	0·0	30	0·00
19	New	29·992	76·2	56·7	64·5	56·5	101·3	42·2	67·7	65·7	8·0	18·0	4·2	+ 3·6	NNE	NE	0·0	0·0	0·0	70	0·00
20	..	29·977	72·7	60·9	64·6	58·3	77·5	53·3	68·2	65·3	6·3	12·8	3·0	+ 3·8	NE	NE	1·5	0·0	0·0	95	0·04
21	..	29·936	78·0	57·5	64·8	55·6	101·0	46·0	67·7	65·7	9·2	21·4	4·0	+ 4·2	NE	SE; E	0·0	0·0	0·0	55	0·00
22	In Equator	29·819	81·7	58·9	69·2	62·1	101·5	55·5	67·9	66·0	7·1	18·4	4·3	+ 8·8	ENE	E	0·0	0·0	0·0	55	0·00
23	..	29·654	85·9	59·5	72·4	63·6	99·0	59·0	68·2	67·0	8·8	22·3	1·5	+12·1	SE	ESE	2·0	0·0	0·0	60	0·00
24	..	29·651	84·8	63·7	73·6	63·2	105·2	..	69·9	68·0	10·4	20·6	2·4	+13·3	E	SE	0·0	0·0	0·0	30	0·00
25	..	29·913	82·7	60·8	70·1	60·7	106·4	50·5	70·1	67·7	9·4	22·3	4·2	+ 9·9	Calm	SW	0·0	0·0	0·0	60	0·00
26	Apogee	30·130	79·0	55·2	66·1	56·9	94·0	..	70·4	67·7	9·2	20·2	5·6	+ 6·2	Calm	Calm	0·0	0·0	0·0	5	0·00
27	First Qr.	30·140	79·0	52·6	64·8	56·3	102·4	..	70·9	68·0	8·5	19·9	2·6	+ 5·1	Calm	N; Calm	0·0	0·0	0·0	25	0·00
28	..	30·121	72·8	48·8	60·6	53·3	96·3	38·0	71·4	68·7	7·3	20·0	3·4	+ 1·0	Calm; N	NE	0·0	0·0	2·0	55	0·00
29	Greatest Declination S.	29·993	69·2	56·0	61·0	54·3	78·7	..	70·9	68·2	6·7	14·6	1·9	+ 1·6	NE	NE	0·0	0·0	0·0	30	0·00
30	..	29·867	82·0	56·1	68·0	59·3	101·7	44·6	..	..	8·7	19·0	3·8	+ 8·9	E	SE	1·5	0·0	0·0	30	0·00
31	..	29·816	86·5	53·5	67·7	57·3	..	..	..	..	10·4	21·6	3·8	+ 8·7	Calm	Calm	0·0	0·0	0·0	25	0·04
																				Sum	Sum
Means	..	29·836	78·1	56·4	65·4	57·5	95·7	47·9	69·7	67·3	8·0	18·3	3·0	+ 4·4	...	...	..	..	..	1545	2·73

BAROMETER READINGS.

The first maximum in the month was 29in·978 on the 2nd; the absolute minimum in the month was 29in·514 on the 7th.
The second maximum ,, was 30in·009 on the 12th; the second minimum ,, was 29in·538 on the 14th.
The third maximum ,, was 30in·004 on the 19th; the third minimum ,, was 29in·625 on the 23rd.
The absolute maximum ,, was 30in·180 on the 27th.
The range in the month was 0in·666.
The mean for the month was 29in·836, being 0in·041 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 88°·0 on the 3rd; the lowest was 48°·8 on the 28th; and the range in the month was 39°·2.
The mean ,, of all the highest daily readings was 78°·1, being 5°·7 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 56°·4, being 3°·1 *higher* than the average of the preceding 17 years.
The mean daily range was 21°·7, being 2°·6 *higher* than the average of the preceding 17 years.
The mean for the month was 65°·4, being 4°·1 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Aug. 1	w	w	10, sl.-r	10, s, ci.-s, cu.-s
2	s	s	10, ci.-cu, ci.-s	10 : 0
3	w	w	0	0 : 10
4	v	0	0	10, ci.-s
5	w	w	10, th.-r, f	10, cu, ci.-cu : 7, shs.-r
6	0	0	10, cu. ci.-cu, h.-shs.-r	7, cu, ci.-cu : r
7	0	0	10	10 : sl.-r
8	0	w	10, th.-r	10, th.-r
9	s	s N	10 : r	7, th.-r, t : 7, ci, cu, ci.-s, r
10	v	v	0, h	0, h : 10, oc.-r
11	w	w	10	10, th.-r
12	0	0	10	7, cu, ci.-cu
13	s P, s N, sps, g cur	s P, s N, sps, g cur	10, ci.-cu, ci.-s, shs.-r	10, shs.-r : 10, l
14	ss	ss : 0	10, th.-r	10, t : l
15	m	m	10	10, h : r
16	v	v	10 : 0	0
17	v, ss	v, ss	7	7, cu . : 0
18	w	w	7, ci.-cu, ci	7, ci.-cu, ci : 10, r
19	m	m : s	10	10
20	w	w	10	10
21	v	v	7 : 0	0
22	w	s	0 : 10	0
23	m	m	0	0
24	v	v	0	0
25	v	v	0	7, cu, ci.-cu : 0
26	s	m	0, f	0, f
27	s	s	0	0
28	m	m	5, cu, ci.-cu, ci : 10	10
29	s	s	10	10 : 0 : r
30	s	s	0	0
31	s	s, sps, g cur	0	10, r : 8

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 66°·5 on the 22nd; and the lowest was 52°·0 on the 17th.

The mean ,, was 57°·5, being 3°·4 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}\cdot473$, being $0^{in}\cdot050$ *greater* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $5^{gr}\cdot2$, being $0^{gr}\cdot5$ *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 77 (that of Saturation being represented by 100), being 1 *lower* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 525 grains, being 3 grains *less* than the average of the preceding 17 years.

CLOUDS.

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

WIND.

The proportions were of N. 7, S. 9, W. 7, and E. 8. The greatest pressure in the month was $3^{lbs}\cdot0$ on the square foot on the 14th and 16th.

RAIN.

Fell on 11 days in the month, amounting to $2^{in}\cdot7$, as measured in the simple cylinder gauge partly sunk below the ground; being $0^{in}\cdot2$ *greater* than the average fall of the preceding 17 years.

MONTH and DAY, 1857.	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 43 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.
Sept. 1	..	29·725	75·0	58·5	64·6	57·3	86·3	47·0	..	..	7·3	15·3	2·1	+ 5·8	SW	NW ; W	0·0	0·0	0·0	110	0·17
2	..	29·454	63·5	51·0	53·6	48·1	78·3	46·1	..	..	5·5	9·3	1·6	— 5·0	SW	NW ; SW	0·0	0·0	0·0	95	0·19
3	..	29·413	63·0	46·9	53·7	51·6	65·5	37·3	..	..	2·1	9·5	1·0	— 4·8	SW	S	0·0	0·0	0·0	55	0·20
4	Full	29·434	66·2	48·5	55·3	52·1	80·2	48·0	..	..	3·2	13·1	1·4	— 3·1	S	SW ; S	1·3	0·0	0·0	75	0·24
5	In Equator	29·632	73·2	49·9	60·0	54·1	96·3	40·4	..	..	5·9	17·5	2·8	+ 1·8	Calm ; SW	SW	0·0	0·0	0·0	100	0·00
6	..	29·695	75·7	53·3	62·6	55·9	99·2	45·0	..	..	6·7	18·5	3·4	+ 4·6	SW	SW ; S	0·0	0·0	0·0	60	0·00
7	Perigee	29·725	74·3	51·4	61·4	56·5	91·5	..	..	..	4·9	16·5	2·5	+ 3·6	SW	SW ; SE	0·0	0·0	0·0	40	0·00
8	..	29·362	67·5	56·9	60·7	58·6	68·4	48·9	..	..	2·1	5·2	1·0	+ 3·0	SE ; SW	SW	1·5	0·0	0·0	105	1·00
9	..	29·442	68·4	54·8	60·6	57·2	73·0	54·5	..	..	3·4	8·3	2·5	+ 3·0	SSW	SW ; S	2·5	0·0	0·3	130	0·03
10	Last Qr.	29·577	72·8	57·4	62·3	56·0	91·2	49·9	..	..	6·3	11·5	2·7	+ 4·8	SW	Calm	0·0	0·0	0·0	55	0·00
11	Greatest Declination N.	29·446	61·1	53·6	55·4	53·8	61·1	54·2	..	..	1·6	3·0	0·6	— 2·6	NW	SW	1·5	0·0	0·0	105	1·16
12	..	29·546	71·8	51·9	60·3	56·9	88·4	43·8	..	..	3·4	12·2	1·0	+ 3·0	SSW	Calm	0·0	0·0	0·0	25	0·05
13	..	29·781	72·9	49·5	60·2	58·4	94·4	43·3	..	..	1·8	11·2	0·0	+ 3·0	Calm	Calm ; NW	0·0	0·0	0·0	30	0·00
14	..	29·930	67·0	53·9	59·8	58·9	68·0	45·2	..	..	0·9	3·0	0·0	+ 2·8	Calm	Calm	0·0	0·0	0·0	5	0·25
15	..	30·069	74·7	55·4	62·7	59·6	89·9	48·0	..	..	3·1	7·7	1·7	+ 6·0	Calm	SW	0·0	0·0	0·0	25	0·00
16	..	30·101	77·7	58·3	66·1	60·0	99·2	..	..	..	6·1	13·6	2·7	+ 9·6	SW	SW	0·0	0·0	0·0	35	0·00
17	..	30·093	80·7	53·0	66·7	60·3	104·8	54·5	..	..	6·4	15·6	2·4	+10·4	Calm	SW	0·0	0·0	0·0	50	0·00
18	In Equator ; New	30·075	74·5	54·8	63·1	56·5	92·5	..	..	..	6·6	17·5	1·0	+ 7·1	W ; SW	NE	0·0	0·0	0·0	70	0·00
19	..	30·237	64·0	48·9	56·1	51·8	67·0	40·3	..	..	4·3	8·7	2·6	+ 0·2	NE	NE	0·0	0·0	0·0	65	0·00
20	..	30·226	70·1	51·5	58·6	51·0	91·0	43·4	..	..	7·6	13·5	4·2	+ 3·0	NE	E	0·0	0·0	0·0	20	0·00
21	..	30·105	69·0	41·5	55·4	53·0	90·8	..	..	..	2·4	10·8	0·6	— 0·1	E	NE ; E	0·0	0·0	0·0	10	0·00
22	..	30·059	68·0	49·5	57·3	52·4	83·4	39·7	..	..	4·9	9·1	2·8	+ 1·9	NE	ESE	0·0	0·0	0·0	30	0·08
23	Apogee	29·924	69·8	52·9	60·2	52·9	88·5	46·4	..	..	7·3	13·1	1·4	+ 4·9	E ; SE	ESE	0·0	0·0	0·0	70	0·00
24	..	29·724	73·6	51·6	61·8	57·6	93·0	42·2	..	..	4·2	11·9	3·4	+ 6·8	SE	SW ; S	0·0	0·0	0·0	55	0·10
25	..	29·706	71·0	57·9	62·2	58·4	78·0	53·7	..	..	3·8	7·9	2·1	+ 7·3	S ; SW	SW ; N	0·0	0·0	0·0	20	0·28
26	Greatest Dec. S. First Quarter	29·799	69·4	51·1	58·5	51·8	91·3	43·2	..	..	6·7	15·7	2·6	+ 3·8	N	SW	0·0	0·0	0·0	95	0·00
27	..	29·755	70·0	51·7	60·9	58·1	83·0	44·0	..	..	2·8	6·7	1·6	+ 6·4	S	SW	2·0	0·0	0·1	90	0·00
28	..	29·725	63·0	51·9	56·1	54·9	62·2	49·4	..	..	1·2	3·8	0·6	+ 1·8	Calm	Calm	0·0	0·0	0·0	10	0·17
29	..	29·973	70·3	45·5	57·0	52·8	91·0	36·1	..	..	4·2	12·6	1·4	+ 3·0	Calm	Calm	0·0	0·0	0·0	25	0·00
30	..	29·865	68·3	49·7	57·9	53·7	87·3	42·2	..	..	4·2	13·9	0·0	+ 4·1	SE	Calm	0·0	0·0	0·0	10	0·00
Means	..	29·786	70·2	52·1	59·7	55·3	84·5	45·6	..	..	4·3	11·2	1·8	+ 3·2	...	...	..	..	..	Sum 1670	Sum 3·92

BAROMETER READINGS.

The first minimum in the month was 29in·405 on the 4th.
The first maximum in the month was 29in·761 on the 7th ; the absolute minimum ,, was 29in·292 on the 8th.
The absolute maximum ,, was 30in·245 on the 19th ; the third minimum ,, was 29in·666 on the 25th.
The range in the month was 0in·953.
The mean for the month was 29in·786, being 0in·055 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 80°·7 on the 17th ; the lowest was 41°·5 on the 21st ; and the range in the month was 39°·2.
The mean ,, of all the highest daily readings was 70°·2, being 2°·9 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 52°·1 being 3°·5 *higher* than the average of the preceding 17 years.
The mean daily range was 18°·1, being 0°·5 *lower* than the average of the preceding 17 years.
The mean for the month was 59°·7, being 3°·0 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Sept. 1	o : w	o	10, t, h.-r	10, cu, ci.-cu, ci : 7, cu, ci.-cu, ci
2	m	s P, s N, sps, g cur : w	10, th.-r	10, r
3	o	o : s	10, r	10, oc.-r
4	s	s P, s N, sps, g cur	10, r	10, cu, cu.-s, t.-s, h.-r : o
5	w	w	o	o
6	w	w	7, s, ci, cu.-s, oc.-r	7, ci.-cu.-s, sl.-r : o, l
7	w	w	7, ci.-cu, ci	7, cu, ci.-cu, ci
8			10, r	10, h.-r : 10, oc.-r
9			10, cu, ci-cu, ci	10, ci.-cu, ci.-s, shs.-r
10			7, cu, ci.-cu	7 : 10, sl.-r
11			10, r	10, r
12			10, cu, ci.-cu	10, cu, ci.-cu, h.-r : 7, f
13			o, h	o
14			10, m.-r	8, th.-r : o
15			o, th.-f	7, cu, ci.-cu : 10
16			5, cu, ci.-cu, ci.-s	o
17			o, f	o
18			o, f	o
19			10	10
20	s	o	7, cu, cu.-s, ci.-s	7 : o
21	s	v	o, f : 5, cu,ci.-cu	o : a
22	s	s	10, ci.-cu, ci.-s	10, th.-r : l
23	w	w	o	o : h
24	w	w	7, ci.-cu, ci.-s, r	7, ci.-cu, ci.-s : l
25	s P, s N, sps, g cur	m	10	10, h.-r
26	v	v	o	7, ci.-s : o
27	v	v	10, ci.-cu, ci.-s, sc	10
28	w	ss, sps, g cur	10, r	10, r : o, f
29	s	s	o	o
30	w	w	7, ci.-s, s	8, ci.-cu, ci.-s : lu.-ha

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 64°·9 on the 17th; and the lowest was 47°·7 on the 2nd.
The mean ,, was 55°·3, being 4°·5 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0in·437, being 0in·057 *greater* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 4gr·9, being 0gr·7 *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 86 (that of Saturation being represented by 100), being 5 *greater* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 530 grains, being 4 grains *less* than the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by o and a cloudy sky by 10, was 5·8.

WIND.

The proportions were of N. 4, S. 10, W. 10, and E. 6. The greatest pressure in the month was 2lbs·5 on the square foot on the 9th.

RAIN.

Fell on 13 days in the month, amounting to 3in·9, as measured in the simple cylinder gauge partly sunk below the ground; being 1in·5 *greater* than the average fall of the preceding 17 years.

ELECTRICITY.—The apparatus was out of order from September 8 to September 19.

MONTH and DAY, 1857.	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 43 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°				lbs.	lbs.	lbs.	miles.	in.
Oct. 1	..	29·912	69·0	50·7	58·7	58·0	84·5	41·0	..	..	0·7	7·7	0·0	+ 5·2	Calm	W	0·0	0·0	0·0	60	0·00
2	In Equator	30·031	67·7	50·0	58·4	54·3	87·1	40·0	..	..	4·1	10·6	2·0	+ 5·0	W	SW	0·0	0·0	0·0	175	0·00
3	Full	29·818	64·0	56·0	59·6	52·5	71·8	..	..	..	7·1	12·0	3·8	+ 6·5	WSW	SW	1·5	0·0	0·1	90	0·00
4	..	29·541	62·2	48·5	51·2	51·0	65·0	47·0	..	..	0·2	3·0	0·0	− 1·8	NNW; W	SW	0·0	0·0	0·0	25	0·10
5	Perigee	29·546	61·0	41·9	49·4	45·2	80·0	..	..	..	4·2	10·8	0·0	− 3·4	WSW	WSW; SSW	0·0	0·0	0·0	..	0·05
6	..	29·604	60·5	43·1	50·3	44·2	78·5	36·2	..	..	6·1	11·2	1·5	− 2·2	SW	SW; S	0·0	0·0	0·0	..	0·00
7	..	29·129	63·4	43·1	52·2	50·2	79·0	35·2	..	..	2·0	4·6	0·0	− 0·1	SE	SE; S	3·5	0·0	0·5	205	0·20
8	..	28·772	59·7	47·1	51·5	50·7	59·7	46·4	..	..	0·8	3·6	0·4	− 0·6	SE	WSW; W	2·5	0·0	0·2	185	0·47
9	Greatest Declination N.	29·244	55·0	43·6	48·5	47·0	58·0	35·5	..	..	1·5	3·2	1·2	− 3·4	W	WNW	0·5	0·0	0·0	130	0·01
10	Last Qr.	29·666	62·7	44·2	52·1	46·8	75·0	35·2	..	..	5·3	10·8	1·8	+ 0·4	Calm	SW	0·0	0·0	0·0	60	0·00
11	..	29·805	58·5	47·2	52·6	52·6	58·6	46·5	..	..	0·0	1·7	0·0	+ 1·2	SSE	Var.	0·0	0·0	0·0	10	0·19
12	..	30·019	67·7	55·3	59·7	56·7	74·2	54·0	..	..	3·0	6·5	0·8	+ 8·7	SSW	SSW	0·0	0·0	0·0	30	0·00
13	..	30·076	65·7	51·0	57·1	55·1	74·3	45·2	..	..	2·0	6·3	0·0	+ 6·6	SSW	SE	0·0	0·0	0·0	5	0·00
14	..	29·994	65·8	42·3	53·0	51·9	81·7	38·6	..	..	1·1	9·7	0·0	+ 2·9	SE	E	0·0	0·0	0·0	25	0·00
15	In Equator	29·908	57·0	48·7	52·8	51·4	82·2	41·9	..	..	1·4	3·8	1·2	+ 3·0	Calm	Calm	0·0	0·0	0·0	0	0·00
16	..	29·858	65·0	50·7	55·1	53·9	76·0	50·7	..	..	1·2	4·0	0·0	+ 5·5	NNE	ESE	0·0	0·0	0·0	15	0·00
17	New	29·743	67·2	47·5	55·8	51·5	81·4	43·0	..	..	4·3	7·6	0·6	+ 6·4	SSW	SSW	0·0	0·0	0·0	45	0·00
18	..	29·414	57·0	50·8	53·2	51·9	58·0	44·5	..	..	1·3	3·0	0·2	+ 4·0	SE	E; SE	0·0	0·0	0·0	60	0·28
19	..	29·505	64·8	49·4	54·4	53·4	72·8	45·2	..	..	1·0	4·2	0·4	+ 5·3	Calm	Calm	0·0	0·0	0·0	15	0·00
20	..	29·692	63·7	47·2	54·1	53·3	75·7	39·5	..	..	0·8	4·8	0·2	+ 5·0	Calm; NNE	NNE	0·0	0·0	0·0	55	0·00
21	Apogee	29·573	56·0	49·3	51·4	50·0	58·0	41·7	..	..	1·4	2·4	1·0	+ 2·5	NNE	Var.	0·0	0·0	0·0	55	0·00
22	..	29·467	50·5	42·7	44·3	44·3	50·5	42·2	..	..	0·0	0·0	0·0	− 4·3	N	NNE	4·0	0·0	1·0	155	2·57
23	Greatest Declination S.	29·841	57·0	45·1	49·0	46·9	64·3	42·2	..	..	2·1	6·2	1·5	+ 0·7	Var.	Var.	0·0	0·0	0·0	65	0·00
24	..	29·974	63·0	46·9	53·9	52·0	72·3	37·9	..	..	1·9	5·9	1·2	+ 6·0	ENE; E	E	1·0	0·0	0·3	105	0·00
25	..	29·736	60·2	50·9	54·0	51·6	70·7	48·7	..	..	2·4	6·5	2·0	+ 6·5	ESE	ESE	2·5	0·0	0·1	55	0·00
26	First Qr.	29·680	64·0	44·7	52·5	50·3	83·5	40·0	..	..	2·2	12·2	0·0	+ 5·1	Calm	Calm	0·0	0·0	0·0	30	0·00
27	..	29·661	63·0	46·5	53·9	51·9	71·0	38·2	..	..	2·0	12·2	0·0	+ 6·7	SE	S	0·0	0·0	0·0	40	0·00
28	..	29·871	63·5	47·7	53·3	50·9	77·0	..	..	..	2·4	11·2	0·2	+ 6·3	Calm	Calm	0·0	0·0	0·0	65	0·00
29	..	29·763	58·7	45·9	50·2	47·7	72·8	39·0	..	..	2·5	8·2	0·6	+ 3·4	S	SW	0·0	0·0	0·0	160	0·06
30	In Equator	29·727	57·0	42·9	48·9	44·6	67·2	37·6	..	..	4·3	9·8	1·5	+ 2·3	SW	W	2·0	0·0	0·1	110	0·00
31	..	29·979	59·7	37·8	48·1	45·9	76·3	36·6	..	..	2·2	8·6	1·4	+ 1·6	SW	S	0·0	0·0	0·0	70	0·00
Means	..	29·695	61·6	47·1	52·9	50·6	72·2	41·8	..	..	2·3	6·9	0·8	+ 3·0	...	...	..	..	..	Sum 2100	Sum 3·93

BAROMETER READINGS.

The first maximum in the month was 30in·075 on the 2nd; the absolute minimum in the month was 28in·669 on the 8th.
The absolute maximum ,, was 30in·098 on the 13th; the second minimum ,, was 29in·339 on the 18th.
The third maximum ,, was 29in·720 on the 20th; the third minimum ,, was 29in·457 on the 22nd.
The fourth maximum ,, was 30in·016 on the 24th; the fourth minimum ,, was 29in·636 on the 27th.
The fifth maximum ,, was 29in·913 on the 28th; the fifth minimum ,, was 29in·671 on the 30th.
The sixth maximum ,, was 30in·017 on the 31st.
The range in the month was 1in·429.
The mean for the month was 29in·695, being 0in·014 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 69°·0 on the 1st; the lowest was 37°·8 on the 31st; and the range in the month was 31°·2.
The mean ,, of all the highest daily readings was 61°·6, being 3°·7 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 47°·1, being 3°·7 *higher* than the average of the preceding 17 years.
The mean daily range was 14°·5, being 0°·1 *lower* than the average of the preceding 17 years.
The mean for the month was 52°·9, being 3°·6 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Oct. 1	v	v	0, f	0, f
2	m	m	0	7, ci, ci.-s : 3, s, ci, lu.-cor
3	s	s	10	10
4	s	s	10, sl.-r	10, th.-r
5	m	m : s	0, f	0 : h.-r
6	v	v	0	7, cu, ci.-cu, ci : 0, f
7	v	v	10, m.-r	10, m.-r
8	N,w : sP, sN, sps, g cur	0	10, h.-r	10, h.-r : v, r
9	s	s : 0	10	10, th.-r
10	s	s	2, ci.-cu, ci	2, ci.-cu, ci : 10, r
11	m	m : s	10, f	10, h
12	m	m	10	10 : 0
13	s	s	7, ci-cu, li-cl	7 : 0
14	s	s	0, h	0 : 5, cu, ci.-cu
15	m	s	10, f	10, f
16	s	s	10	10, cu, ci.-cu : 0, f
17	v	v	0	7, cu, ci.-cu : sl.-r
18	0	w : 0	10, r	10 : r
19	0	s	10, r	5, oc.-r
20	s	s : w	8	7, ci.-cu, ci.-s : 10
21	v	v	10, f	10, gt.-glm : m.-r
22	0	0	10, r	10, r : 1
23			8, th.-r	8, cu, ci.-cu, ci.-s
24			10	7, ci.-cu, li.-cl : 0, f
25			10	10 : 0
26			10, th.-f	0 : 7, ci.-cu, f
27			10	7, ci.-cu, ci
28	v	v	10, ci.-cu, ci, f	10, ci.-cu, ci.-s : 10, ci.-s, lu.-ha
29	s	s	0	10, r : 7, lu.-ha
30	s, sps, : w	w	10, ci.-s, s, r	5, ci.-cu, ci.-s
31	s	s	0	7

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 63°·0 on the 1st; and the lowest was 42°·0 on the 30th.

The mean ,, was 50°·6, being 5°·1 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0^{in}·369, being 0^{in}·063 *greater* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 4^{gr}·1, being 0^{gr}·6 *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 93 (that of Saturation being represented by 100), being 7 *greater* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 536 grains, being 3 grains *less* than the average of the preceding 17 years.

CLOUDS.

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

WIND.

The proportions were of N. 4, S. 10, W. 10, and E. 7. The greatest pressure in the month was 4^{lbs}·0 on the square foot on the 22nd.

RAIN.

Fell on 9 days in the month, amounting to 3^{in}·9, as measured in the simple cylinder gauge partly sunk below the ground; being 0^{in}·8 *greater* than the average fall of the preceding 17 years.

ELECTRICITY.—The apparatus was out of order from October 23 to October 27.

MONTH and DAY, 1857.	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 43 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Nov. 1	..	29·770	59·8	45·9	51·6	47·2	71·5	38·2	54·7	52·4	4·4	8·6	2·1	+ 5·2	Calm	SE	0·0	0·0	0·0	60	0·00
2	Full, Perigee	29·548	59·7	43·9	53·1	53·0	61·8	43·0	52·3	50·7	0·1	4·6	0·0	+ 6·9	SE	S	0·0	0·0	0·0	45	0·05
3	..	29·580	64·3	55·4	58·8	56·1	68·5	50·0	52·3	50·2	2·7	4·8	0·6	+12·7	SSE	Calm	0·0	0·0	0·0	40	0·02
4	..	29·677	61·0	51·5	54·8	54·1	64·0	52·0	52·8	50·7	0·7	2·2	0·2	+ 8·9	NE; E	Calm	0·0	0·0	0·0	10	0·40
5	Greatest Declination N.	29·722	59·2	52·2	55·5	54·5	61·5	52·2	54·7	52·2	1·0	3·0	0·2	+ 9·8	NE	E	0·0	0·0	0·0	10	0·00
6	..	29·868	56·5	46·9	52·2	51·9	61·3	42·5	53·8	51·7	0·3	1·2	0·0	+ 6·7	Calm	NE	0·0	0·0	0·0	25	0·02
7	..	30·072	54·6	48·5	50·4	47·7	55·0	49·0	53·3	51·7	2·7	3·2	1·1	+ 5·3	N; NE	N	0·0	0·0	0·0	10	0·00
8	Last Qr.	30·194	50·5	42·5	46·6	46·3	50·5	37·0	54·7	52·2	0·3	1·0	0·0	+ 1·8	N	Calm	0·0	0·0	0·0	0	0·00
9	..	30·221	53·0	46·2	49·9	49·4	55·0	46·0	54·7	52·6	0·5	1·8	0·0	+ 5·4	N	NE	0·0	0·0	0·0	5	0·00
10	..	30·352	53·2	48·1	49·7	47·5	54·0	48·0	54·2	52·5	2·2	3·4	0·0	+ 5·4	NE	ENE	0·0	0·0	0·0	45	0·00
11	..	30·557	54·0	40·3	45·6	42·9	63·5	33·2	54·1	52·0	2·7	5·0	0·0	+ 1·6	ENE	E	0·0	0·0	0·0	40	0·00
12	In Equator	30·569	47·2	30·0	39·2	39·2	49·0	23·0	53·7	50·7	0·0	1·3	0·0	− 4·7	Calm	N	0·0	0·0	0·0	20	0·00
13	..	30·330	43·7	32·5	38·0	38·0	44·6	31·5	52·3	49·4	0·0	0·9	0·0	− 5·5	Calm; NNW	N	0·0	0·0	0·0	20	0·00
14	..	30·162	51·4	41·0	46·8	46·2	53·0	32·0	51·9	48·2	0·6	3·0	0·4	+ 3·5	N	NNE	0·0	0·0	0·0	65	0·00
15	..	30·183	51·5	39·3	44·9	41·3	60·7	34·0	50·8	49·1	3·6	6·7	0·9	+ 1·9	E	NE	0·0	0·0	0·0	50	0·00
16	New	30·046	52·3	39·3	44·3	42·4	56·0	..	50·3	48·5	1·9	4·2	0·0	+ 1·7	NE	SE	0·0	0·0	0·0	40	0·00
17	Apogee	30·014	48·7	35·5	43·8	42·1	49·0	28·5	50·8	48·3	1·7	5·5	0·0	+ 1·4	Calm; SE	ESE	0·0	0·0	0·0	40	0·00
18	..	30·105	54·4	39·0	46·0	42·7	66·4	31·8	49·8	47·5	3·3	8·2	0·7	+ 3·8	E	E	0·0	0·0	0·0	85	0·00
19	Greatest Declination S.	30·163	45·2	38·5	40·6	39·8	48·0	35·0	48·3	46·8	0·8	3·1	0·0	− 1·6	ESE	SE	0·0	0·0	0·0	5	0·00
20	..	30·162	47·0	41·0	43·7	43·5	50·0	28·0	47·3	45·8	0·2	0·7	0·0	+ 1·5	Calm	W	0·0	0·0	0·0	10	0·00
21	..	30·205	52·7	38·3	46·0	44·9	55·0	30·0	47·3	45·8	1·1	5·4	0·0	+ 4·0	W	S	0·0	0·0	0·0	0	0·00
22	..	29·975	51·3	39·8	45·9	43·1	52·6	33·8	47·3	45·8	2·8	6·0	0·9	+ 4·2	S	S	0·0	0·0	0·0	190	0·00
23	..	29·369	55·3	42·6	48·7	46·3	54·7	37·0	47·7	46·2	2·4	5·3	1·9	+ 7·3	SW	SW	2·5	0·0	0·2	55	0·15
24	First Qr.	29·159	48·7	35·5	40·0	39·1	51·8	34·0	47·3	46·2	0·9	1·8	0·0	− 1·0	SW; SE	Calm	0·0	0·0	0·0	45	0·50
25	..	29·446	45·0	30·5	38·3	38·2	47·0	30·0	47·3	45·8	0·1	0·5	0·0	− 2·5	Calm	NNE	0·0	0·0	0·0	40	0·10
26	In Equator	29·425	44·0	34·0	37·6	37·2	44·0	32·2	45·3	44·8	0·4	0·9	0·0	− 3·3	N	NE	0·0	0·0	0·0	80	0·03
27	..	29·656	51·2	35·0	42·0	37·8	54·0	28·8	45·3	44·8	4·2	9·7	0·3	+ 0·9	NE	NE	2·5	0·0	0·1	65	0·00
28	..	29·997	47·8	31·8	39·0	36·2	53·6	22·0	45·3	43·3	2·8	6·8	1·0	− 2·5	N	NE	0·0	0·0	0·0	60	0·00
29	..	29·989	47·0	36·3	41·4	40·6	49·8	30·7	44·3	43·5	0·8	3·2	0·0	− 0·2	NE	E	0·0	0·0	0·0	100	0·00
30	..	29·742	47·4	36·2	39·7	36·0	47·4	..	43·3	42·5	3·7	5·9	0·5	− 1·9	ESE	SE	3·3	0·0	0·3	80	0·00
																				Sum	Sum
Means	..	29·942	51·9	40·6	45·8	44·2	55·1	36·2	50·2	48·4	1·6	3·9	0·4	+ 2·6	...	...	..	..	..	1340	1·27

BAROMETER READINGS.

The absolute maximum in the month was 30in·609 on the 12th; the second maximum ,, was 30in·230 on the 21st; the third maximum ,, was 30in·024 on the 28th.

The first minimum in the month was 29in·535 on the 2nd.

The second minimum ,, was 29in·997 on the 17th.

The absolute minimum ,, was 29in·087 on the 24th.

The range in the month was 1in·522.

The mean for the month was 29in·942, being 0in·197 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 64°·3 on the 3rd; the lowest was 30°·0 on the 12th; and the range in the month was 34°·3.

The mean ,, of all the highest daily readings was 51°·9, being 2°·4 *higher* than the average of the preceding 17 years.

The mean ,, of all the lowest daily readings was 40°·6, being 2°·5 *higher* than the average of the preceding 17 years.

The mean daily range was 11°·3, being 0°·1 *lower* than the average of the preceding 17 years.

The mean for the month was 45°·8, being 2°·2 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Nov. 1	v	v	10, cu, ci.-cu, ci.-s : 7, ci.-cu, ci.-s	7, ci.-s : lu.-cor
2	s	s	10, th.-r	10 : 0
3	w	w : s	10, ci.-cu, ci.-s	10, r
4	w	o : m	10, h.-r	10, r
5	m	m	10	10
6	o : w	o	10, th.-f	10, th.-f : r
7	w	w	10, ci.-cu, f	10 : 7, th.-f
8	v	v	10, ci.-cu	10 : th.-f
9	w	w	10, f	10, m.-r
10	v	v	10, th.-r	10, th.-r
11			10, cu, ci.-cu	0
12			10, th.-f	10, th.-f
13	w	w	10, f	10, f
14	o	o : w	10	10 : r
15	m	m	0	0
16	v	v	10	10 : 0, h
17	w	w	10, ci.-cu, ci.-s, ci	7, ci.-cu, ci.-s, r : 10
18	s	s	0, f	0 : 7
19	o	w	10 : 8	10
20	w	w	10, f	10, f
21	w	w	10, cu, ci.-cu, th.-f	10, cu, ci.-cu, ci.-s
22	w	w : o	0 : 10	10, glm : 7, ci, ci.-s
23	s, g cur	s, g cur	10, h.-r	10, oc.-r
24	s	s	10, r	9 : o : 10, r
25	s	s	10, cu, ci-cu, ci	7 : 10, ci.-cu, ci, r
26	s	w	10, sn, sl	10, sn, sl, r : 8, ci, n
27	s	s	10 : o	0 : 8, ci.-cu, ci, lu.-cor
28	v	s	8, ci.-cu : o	0 : 10, lu.-cor
29	s, sps,	s, sps	10, th.-r	7 : 10, lu.-cor
30	v	v	10	10

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 57°·4 on the 3rd; and the lowest was 34°·1 on the 26th.
The mean ,, was 44°·2, being 3°·9 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}\cdot290$, being $0^{in}\cdot032$ *greater* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $3^{gr}\cdot5$, being $0^{gr}\cdot6$ *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 98 (that of Saturation being represented by 100), being 10 *greater* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 548 grains, being 1 grain *greater* than the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 8·2.

WIND.

The proportions were of N. 10, S. 6, W. 3, and E. 11. The greatest pressure in the month was $3^{lbs}\cdot3$ on the square foot on the 30th.

RAIN.

Fell on 8 days in the month, amounting to $1^{in}\cdot3$, as measured in the simple cylinder gauge partly sunk below the ground; being $1^{in}\cdot0$ *less* than the average fall of the preceding 17 years.

ELECTRICITY.—On November 11 and 12 the insulating lamp was out.

MONTH and DAY, 1857.	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 43 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.
Dec. 1	Perigee	29·735	52·8	35·8	47·3	45·4	55·5	28·3	43·8	42·5	1·9	7·8	0·0	+ 5·6	S	Calm	0·0	0·0	0·0	100	0·05
2	Full; Greatest Dec. N.	29·913	56·4	43·2	50·8	48·5	58·5	38·8	43·6	42·3	2·3	5·6	0·0	+ 9·0	SW	S	1·0	0·0	0·0	195	0·00
3	..	29·637	55·3	48·5	52·4	47·2	55·4	43·0	42·8	42·5	5·2	6·8	4·0	+10·7	S	SW	4·0	0·0	0·5	265	0·05
4	..	29·910	55·5	39·7	46·7	42·3	59·0	38·0	45·3	44·0	4·4	7·8	0·2	+ 5·2	SW	SW	2·5	0·0	0·2	120	0·00
5	..	30·083	51·4	37·5	44·3	42·3	53·5	30·5	45·6	44·3	2·0	6·4	0·2	+ 2·9	SW	SW	0·0	0·0	0·0	125	0·00
6	..	30·258	55·3	39·7	49·4	47·3	59·0	31·0	45·3	44·0	2·1	3·4	0·0	+ 8·3	SW	SW	0·0	0·0	0·0	165	0·00
7	..	30·294	54·0	45·0	50·9	48·8	54·5	45·0	47·7	45·0	2·1	3·6	0·0	+10·2	SSW	SW; WSW	2·5	0·0	1·0	145	0·00
8	Last Qr.	30·521	53·9	35·3	41·7	40·8	54·7	..	46·9	45·4	0·9	2·5	0·0	+ 1·0	Var.	WSW	0·0	0·0	0·0	65	0·00
9	In Equator	30·254	48·3	42·3	43·7	40·6	49·0	31·2	46·9	45·5	3·1	3·7	2·5	+ 3·2	SSW; S	SW	0·0	0·0	0·0	100	0·00
10	..	30·260	51·0	42·7	46·8	44·0	54·2	41·7	46·5	45·5	2·8	4·8	0·0	+ 6·4	SSW	SSW	0·0	0·0	0·0	115	0·00
11	..	30·432	49·0	36·8	42·2	40·7	53·2	30·3	46·7	45·5	1·5	4·4	0·0	+ 2·0	SW	SW; S by W	0·0	0·0	0·0	15	0·00
12	..	30·566	42·6	37·0	40·6	39·9	42·7	29·0	46·3	45·5	0·7	2·6	0·0	+ 0·6	Calm	Calm	0·0	0·0	0·0	0	0·00
13	..	30·450	43·5	39·7	41·4	38·9	44·0	38·0	46·1	45·0	2·5	3·7	0·0	+ 1·8	Calm	Calm	0·0	0·0	0·0	0	0·00
14	Apogee	30·191	43·2	38·5	40·8	37·2	44·8	34·0	45·8	44·5	3·6	4·1	3·0	+ 1·1	Calm	SW	0·0	0·0	0·0	155	0·00
15	..	30·002	51·4	41·3	46·9	44·8	54·4	37·6	45·5	44·5	2·1	4·8	0·3	+ 6·9	SSW	SW	2·0	0·0	0·1	215	0·00
16	New; Greatest Dec. S.	29·973	52·2	42·6	48·5	46·5	55·5	41·3	45·8	45·0	2·0	4·4	0·8	+ 8·2	SW	SW	2·5	0·0	0·1	120	0·00
17		30·023	57·0	48·2	52·5	49·2	57·5	41·0	45·8	45·0	3·3	5·0	2·2	+12·4	SW	SW	3·5	0·0	0·5	235	0·03
18	..	29·947	53·8	44·0	48·7	44·7	55·8	42·3	46·8	45·0	4·0	5·3	2·3	+ 8·8	SW	SW	3·0	0·0	0·3	165	0·02
19	..	29·989	49·2	35·0	40·1	38·0	49·2	30·0	47·1	45·0	2·1	4·0	0·0	+ 0·6	Calm	W; SW	0·0	0·0	0·0	100	0·11
20	..	29·781	49·8	32·0	42·3	40·8	49·8	24·0	46·9	45·4	1·5	4·4	0·7	+ 3·3	SW	W	3·5	0·0	0·3	230	0·10
21	..	29·912	51·8	41·7	48·7	46·7	52·2	34·5	46·8	45·5	2·0	4·4	1·9	+10·3	WSW	WSW	2·5	0·0	0·5	160	0·00
22	..	30·064	54·0	47·5	51·1	46·9	55·0	43·2	47·3	45·5	4·2	5·2	3·8	+13·2	SW	SW	3·3	0·0	0·6	270	0·00
23	In Equator	30·228	55·4	47·4	51·7	45·4	57·5	34·0	47·5	46·6	6·3	8·4	4·2	+14·3	SW	WSW	2·6	0·0	0·3	200	0·00
24	First Qr.	30·271	52·0	46·5	49·1	44·3	53·5	39·2	47·7	46·3	4·8	6·6	2·3	+12·1	Calm	SW	0·0	0·0	0·0	205	0·00
25	..	30·193	53·0	38·9	45·6	42·5	55·0	40·3	47·8	46·2	3·1	7·4	0·0	+ 9·1	WSW	W	1·3	0·0	0·0	75	0·00
26	..	30·215	45·2	34·5	41·5	37·9	46·0	..	47·3	45·8	3·6	6·3	2·3	+ 4·9	W	Calm	0·0	0·0	0·0	0	0·00
27	..	30·280	43·8	36·1	40·1	35·9	45·8	32·0	47·3	45·8	4·2	6·2	2·3	+ 3·6	NNE	NW; W	0·0	0·0	0·0	5	0·00
28	..	30·344	40·5	31·0	36·4	35·1	40·6	27·8	47·1	45·4	1·3	3·5	0·0	− 0·6	W	WSW	0·0	0·0	0·0	5	0·00
29	Perigee	30·389	47·5	36·7	42·0	41·2	51·3	28·0	46·9	44·6	0·8	2·9	0·0	+ 4·7	SW	WSW	0·0	0·0	0·0	35	0·00
30	Greatest Dec. N. Full.	30·442	43·6	31·9	37·9	37·5	44·2	31·9	46·3	44·0	0·4	2·2	0·0	+ 0·5	WSW	Calm	0·0	0·0	0·0	5	0·00
31	..	30·385	46·0	30·8	36·9	34·3	50·5	31·0	45·8	43·2	2·6	6·8	0·0	− 0·7	Calm	SE	0·0	0·0	0·0	50	0·00
Means	..	30·158	50·3	39·6	45·1	42·4	52·0	35·1	46·3	44·9	2·7	5·0	1·1	+ 5·8	...	...	..	..	..	Sum 3640	Sum 0·36

BAROMETER READINGS.

The first minimum in the month was 29in·709 on the 1st.
The first maximum in the month was 29in·937 on the 2nd; the absolute minimum ,, was 29in·617 on the 3rd.
The second maximum ,, was 30in·550 on the 8th; the third minimum ,, was 30in·222 on the 9th.
The absolute maximum ,, was 30in·574 on the 12th; the fourth minimum ,, was 29in·954 on the 16th.
The fourth maximum ,, was 30in·077 on the 17th; the fifth minimum ,, was 29in·841 on the 18th.
The fifth maximum ,, was 30in·026 on the 19th; the sixth minimum ,, was 29in·754 on the 20th.
The sixth maximum ,, was 30in·454 on the 30th.
The range in the month was 0in·957. The mean for the month was 30in·158, being 0in·342 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 57°·0 on the 17th; the lowest was 30°·8 on the 31st; and the range in the month was 26°·2.
The mean ,, of all the highest daily readings was 50°·3, being 5°·2 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 39°·6, being 4°·0 *higher* than the average of the preceding 17 years.
The mean daily range was 10°·7, being 1°·2 *higher* than the average of the preceding 17 years.
The mean for the month was 45°·1, being 4°·9 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1857.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Dec. 1	v	v	10, ci.-cu, ci.-s	10 : 10, m.-r
2	s	s	10, m.-r	10 : 8, lu.-ha, lu.-cor
3	m	m	10	8, ci.-cu, ci.-s : shs.-r, lu.-cor
4	s	s : o	o	o
5	s, sps, g cur	s, sps, g cur	o	o : f
6	s, sps, g cur	s, sps, g cur	10, m.-r 8, ci.-cu, ci.-s	8 : 10, m.-r
7	s	s	10	10, m.-r
8	s	s	10, f	8, th.-f : 10
9	ss	ss	10, cu, ci.-cu	10
10	m	m	10	10 : o, h
11	ss	ss	o, h	o : 10
12	s, sps, g cur	ss, sps, g cur	10	10 : f
13	s	s	10, ci, f	10 : f
14	s, sps	s, sps	10, ci.-s	10, ci.-s
15	s	s : m	8	10
16	s	s	10	10 : o, l, r
17	w	w	10, cu, ci.-cu	10, shs.-r
18	s	s	8	o : 10, r
19	ss, sps, g cur	ss, sps, g cur	o, f	o : th.-f
20	s	s	10	10 : 8, r
21	s	s : w	10, cu, ci.-cu, ci.-s	10, cu, ci.-cu, ci.-s
22	w	w	10, s, ci.-s : 8	10, s
23	s	s	o	10
24	ss, sps	ss, sps	10, cu, ci.-cu, ci.-s	10, cu, ci.-cu
25	m	m	7, s, ci.-s	7, s, ci.-s : o, th.-f
26	m	m : s	10, th.-f	10
27	w	s	10, cu, ci.-cu	10, cu, ci.-cu : lu.-cor
28	s	s	10, f	10, ci.-s, f
29	ss, sps, g cur	ss, sps, g cur	8, cu, ci.-cu, ci.-s : 10	10, f
30	s	s	10, th.-f	10, f
31	s, sps	s, sps	o, f	o : 8, s, ci.-s

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 51°·1 on the 2nd; and the lowest was 30°·2 on the 31st.

The mean ,, was 42°·4, being 5°·5 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}·271$, being $0^{in}·045$ *greater* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $3^{gr}·1$, being $0^{gr}·5$ *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 90 (that of Saturation being represented by 100), being 2 *greater* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 552 grains, being *the same as* the average of the preceding 17 years.

CLOUDS.

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

WIND.

The proportions were of N. 1, S. 13, W. 16, and E. 1. The greatest pressure in the month was $4^{lbs}·0$ on the square foot on the 3rd.

RAIN.

Fell on 6 days in the month, amounting to $0^{in}·4$ as measured in the simple cylinder gauge partly sunk below the ground; being $1^{in}·0$ *less* than the average fall of the preceding 17 years.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°		gr.	gr.		gr.		lbs.		
Jan. 4. 12	29·309	39·1	38·8	38·4	·232	2·7	0·1	99	544	NNE	0·0	10	2
13	29·325	39·3	39·2	39·1	·238	2·8	0·1	99	545	NNE	0·0	10	2
14	29·353	37·8	37·5	37·3	·223	2·4	0·3	96	548	NNE	0·0	10	3
15	29·406	36·2	36·0	35·7	·209	2·5	0·1	98	550	NE	0·0	10	4
16	29·457	34·8	34·6	33·2	·189	2·2	0·2	93	547	NE	0·0	10	4
17	29·510	34·6	33·8	32·7	·186	2·2	0·2	92	553	NE	0·0	10	5
18	29·543	33·9	33·2	31·6	·178	2·1	0·2	92	555	NNE	0·0	10	5
19	29·605	33·0	33·0	33·0	·188	2·2	0·0	100	557	NNE	0·0	10	5
20	29·637	33·8	32·7	30·9	·173	2·0	0·3	88	556	NNE	0·0	10	5
21	29·698	33·7	32·3	29·6	·164	1·9	0·4	85	558	NNE	0·0	10	8
22	29·734	33·5	31·8	28·7	·158	1·9	0·4	83	560	NNE	3·0	10	0
23	29·752	33·8	31·7	28·3	·155	1·9	0·4	78	559	NNE	2·5	9	2
Jan. 5. 0	29·780	33·9	32·0	28·6	·157	1·8	0·5	80	559	NNE	2·5	9	3
1	29·791	33·9	32·1	28·9	·159	1·8	0·5	81	560	NNE	5·5	9	4
2	29·810	32·1	31·8	31·1	·174	2·1	0·1	96	562	NNE	4·0	6	4
3	29·831	31·8	31·6	29·7	·165	2·0	0·1	97	563	NNE	3·0	7	5
4	29·851	30·4	30·3	30·2	·168	1·9	0·1	95	565	NNE	4·0	3	5
5	29·870	30·2	28·4	23·0	·123	1·5	0·5	73	566	NNE	3·0	10	5
6	29·892	29·7	28·6	25·2	·136	1·7	0·3	83	567	NNE	2·4	9	3
7	29·895	29·7	28·5	24·7	·133	1·7	0·3	82	567	NNE	2·5	9	3
8	29·900	29·7	28·5	24·7	·133	1·7	0·3	82	567	NNE	2·5	10	3
9	29·904	29·7	29·0	26·8	·146	1·9	0·2	88	567	NNE	2·0	10	0
10	29·905	29·7	29·0	26·8	·146	1·9	0·2	88	567	NNE	2·0	7	0
11	29·904	29·5	28·8	26·6	·145	1·7	0·2	88	567	NNE	2·0	10	0
Jan. 11. 12	29·168	39·5	38·1	36·2	·214	2·5	0·3	89	542	NNW	0·0	8	0
13	29·165	37·4	37·1	36·5	·216	2·6	0·1	96	544	NW	0·0	7	0
14	29·165	36·5	36·0	35·3	·206	2·5	0·1	96	545	WNW	0·0	0	0
15	29·164	34·7	34·4	33·3	·190	2·2	0·2	93	547	WNW	0·0	0	0
16	29·157	33·9	33·7	32·0	·181	2·1	0·3	90	548	WNW	0·0	0	0
17	29·153	33·8	33·5	32·1	·182	2·0	0·2	92	548	WSW	0·0	0	1
18	29·145	33·2	33·0	32·6	·185	2·1	0·1	98	548	W	0·0	0	3
19	29·131	32·2	32·2	32·2	·182	2·1	0·0	100	549	WSW	0·0	0	3
20	29·125	32·6	32·2	31·0	·174	2·0	0·2	97	548	WSW	0·0	0	0
21	29·090	32·3	32·2	32·2	·182	2·0	0·1	99	548	SSW	0·0	0	0
22	29·092	35·0	34·9	34·7	·201	2·3	0·1	99	545	SSW	0·0	0	0
23	29·058	38·5	37·5	36·1	·213	2·4	0·3	91	540	SSW	0·0	7	0
Jan. 12. 0	29·029	41·6	39·9	37·8	·227	2·7	0·5	87	537	SW	0·0	6	0
1	29·001	42·8	40·4	37·5	·225	2·6	0·5	82	535	SSE	0·0	0	1
2	28·988	42·8	39·8	36·1	·213	2·6	0·6	78	535	SE	0·0	1	2
3	28·977	40·7	38·4	35·6	·208	2·4	0·6	88	536	SSE	0·0	4	2
4	28·971	38·5	37·0	34·9	·203	2·4	0·4	87	538	SSE	0·0	1	3
5	28·976	35·7	35·1	34·2	·197	2·3	0·2	95	541	E	0·0	0	0
6	28·984	35·1	34·7	34·2	·197	2·3	0·1	96	542	ESE	0·0	0	0
7	28·999	35·4	35·4	35·4	·207	2·4	0·0	100	543	ESE	0·0	5	0
8	29·004	34·6	34·6	34·6	·200	2·3	0·0	100	544	E	0·0	6	0
9	29·006	33·7	33·7	33·7	·193	2·2	0·0	100	545	E	0·0	10	0
10	29·022	33·7	33·7	33·7	·193	2·2	0·0	100	545	E	0·0	10	0
11	28·999	32·2	32·2	32·2	·182	2·1	0·0	100	547	ENE	0·0	10	0
Jan. 18. 12	30·126	46·5	45·0	43·4	·281	3·2	0·4	90	552	WSW	0·0	10	0
13	30·111	46·5	45·5	44·5	·294	3·3	0·3	94	550	WSW	0·0	10	0
14	30·101	46·5	45·7	44·9	·298	3·4	0·3	94	550	WSW	0·0	10	0
15	30·088	46·7	46·0	45·2	·302	3·5	0·2	95	550	WSW	0·0	10	0
16	30·084	47·0	46·2	45·3	·303	3·5	0·2	95	550	WSW	0·0	10	0
17	30·080	47·0	46·5	45·9	·309	3·5	0·2	96	550	WSW	0·0	10	10
18	30·083	47·0	46·5	45·9	·309	3·5	0·2	96	550	WSW	0·0	10	10
19	30·081	47·0	47·0	47·0	·323	3·7	0·0	100	549	WSW	0·0	10	10

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Jan. 4. 12	..	..	..	..	Overcast.
13	..	..	..	..	Overcast.
14	..	..	..	..	Overcast.
15	..	..	..	..	Overcast.
16	..	..	..	..	Overcast.
17	..	..	..	..	Overcast.
18	..	..	..	..	Overcast.
19	..	..	..	..	Overcast.
20	..	..	..	..	Overcast.
21	..	..	..	..	Overcast.
22	..	..	..	..	Overcast.
23	..	..	..	..	Generally overcast.
Jan. 5. 0	..	..	..	..	Generally overcast.
1	..	..	..	..	Generally overcast.
2	..	..	..	..	Partially cloudy; snow falling.
3	..	..	..	..	Partially cloudy; snow falling.
4	..	..	..	..	Dark clouds near the horizon; snow falling.
5	..	..	..	..	Overcast.
6	..	..	..	..	Generally overcast.
7	..	..	..	..	Generally overcast.
8	..	..	..	..	Overcast.
9	..	..	..	..	Cirrostratus and scud.
10	..	..	..	..	Cirrostratus and scud; clear in the W.
11	..	..	..	..	Overcast.
Jan. 11. 12	..	..	..	..	Light clouds in all directions; lunar halo and coronæ.
13	..	..	..	..	Light clouds in all directions; lunar halo and coronæ.
14	..	..	..	..	Cloudless.
15	..	..	..	..	Cloudless.
16	..	..	..	..	Cloudless.
17	..	..	..	..	Cloudless.
18	..	..	..	..	Cloudless.
19	..	..	..	..	Cloudless.
20	..	..	..	..	Cloudless.
21	..	..	..	..	Cloudless.
22	..	..	..	..	Cloudless.
23	..	..	..	..	Partially cloudy.
Jan. 12. 0	..	..	..	..	Partially cloudy.
1	..	..	..	..	Cloudless.
2	..	..	..	..	A few light clouds in the S.W.; otherwise cloudless.
3	20	20	..	..	Light clouds near the horizon.
4	70	40	..	..	Light clouds near the horizon.
5	Out of range	40	2 B	..	Cloudless.
6	80	40	..	..	Cloudless.
7	80	40	..	..	Partially cloudy.
8	Out of range	40	..	..	Partially cloudy.
9	0	0	..	..	Overcast; fog and haze.
10	0	0	..	..	Overcast; fog and haze.
11	0	0	..	..	Overcast; fog and haze.
Jan. 18. 12	10	20	..	..	Overcast.
13	20	30	..	..	Overcast.
14	30	40	..	..	Overcast.
15	20	30	..	..	Overcast.
16	20	30	..	..	Overcast.
17	10	20	..	..	Overcast.
18	10	20	..	..	Overcast; thin rain falling.
19	10	20	..	..	Overcast; thin rain falling.

January 4 and 11. The insulating lamp on the top of the Electrometer pole was not burning.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°		gr.	gr.		gr.		lbs.		
Jan. 18. 20	30·083	47·0	46·8	46·6	·318	3·7	0·1	99	549	WSW	0·0	10	10
21	30·093	45·9	45·6	45·3	·303	3·5	0·1	99	551	N	0·0	10	0
22	30·109	45·8	44·4	42·8	·275	3·1	0·4	89	551	N	0·0	10	0
23	30·140	46·1	44·3	42·2	·269	3·2	0·5	88	557	NNE	0·0	10	0
Jan. 19. 0	30·151	46·5	44·4	42·1	·268	3·1	0·5	85	558	NNE	0·0	10	0
1	30·146	46·4	44·2	41·7	·264	3·1	0·6	84	552	NNE	0·0	10	0
2	30·153	46·4	44·2	41·7	·264	3·1	0·6	84	551	NNE	0·0	5	0
3	30·152	45·5	43·0	40·2	·249	2·9	0·6	82	553	NNE	0·0	5	0
4	30·169	43·8	41·7	39·2	·239	2·8	0·6	84	555	NNE	0·0	0	0
5	30·176	42·4	40·6	38·4	·232	2·7	0·5	86	557	NNE	0·0	0	0
6	30·180	41·4	39·7	37·5	·225	2·6	0·4	87	558	NNW	0·0	0	0
7	30·205	38·4	37·7	36·8	·218	2·6	0·1	94	560	W	0·0	0	0
8	30·176	38·1	37·4	36·4	·215	2·5	0·2	94	560	W	0·0	0	0
9	30·154	36·9	36·7	36·5	·216	2·6	0·2	98	563	W	0·0	0	0
10	30·139	35·8	35·7	35·7	·209	2·5	0·1	99	563	WSW	0·0	0	0
11	30·110	34·7	34·7	34·7	·201	2·3	0·0	100	564	WSW	0·0	0	0
Jan. 25. 12	29·485	33·4	33·2	32·9	·187	2·2	0·1	99	554	NE	0·0	0	10
13	29·491	32·0	31·8	31·3	·176	2·1	0·0	97	556	NNE	0·0	0	10
14	29·486	31·5	31·5	31·5	·177	2·1	0·0	100	557	NNE	0·0	0	8
15	29·493	31·4	31·3	31·2	·175	2·1	0·1	99	557	NNE	0·0	0	4
16	29·492	31·7	31·6	31·5	·177	2·3	0·1	99	556	NNE	0·0	6	1
17	29·492	32·7	32·4	31·9	·180	2·1	0·1	99	555	NNE	0·0	10	1
18	29·495	33·0	32·6	31·8	·179	2·1	0·1	95	555	NNE	0·0	10	0
19	29·489	33·2	32·8	32·0	·181	2·2	0·1	95	555	NNE	0·0	10	0
20	29·502	33·4	33·2	32·9	·187	2·1	0·1	99	555	NNE	0·0	10	0
21	29·503	33·3	33·2	33·1	·188	2·1	0·1	99	555	NNE	0·0	10	0
22	29·509	33·5	33·4	33·3	·190	2·1	0·1	99	555	NNE	0·0	10	0
23	29·528	34·5	34·1	33·3	·190	2·2	0·1	95	554	ENE	0·0	10	0
Jan. 26. 0	29·537	34·4	34·3	34·2	·197	2·2	0·1	99	554	ENE	1·5	10	0
1	29·541	34·7	34·3	33·7	·193	2·2	0·2	96	554	ENE	1·5	10	0
2	29·545	35·1	34·4	33·3	·190	2·2	0·2	93	554	ENE	2·5	10	0
3	29·557	34·6	34·0	33·1	·188	2·2	0·2	94	554	ENE	2·5	10	0
4	29·580	34·1	34·0	33·8	·194	2·3	0·1	99	555	ENE	2·5	10	0
5	29·595	34·0	33·0	31·2	·175	2·1	0·2	89	556	ENE	2·2	10	0
6	29·613	33·2	32·5	30·7	·172	2·0	0·1	92	557	ENE	2·5	10	0
7	29·622	32·7	32·5	32·1	·182	2·0	0·1	99	558	ENE	0·0	10	0
8	29·634	32·7	32·4	32·0	·181	2·0	0·1	99	558	ENE	0·0	10	0
9	29·656	32·7	32·2	31·3	·176	2·0	0·2	95	558	ENE	0·0	10	0
10	29·674	32·7	32·0	30·6	·171	2·0	0·2	92	558	ENE	0·0	10	0
11	29·679	32·7	32·0	30·6	·171	2·0	0·2	92	559	ENE	0·0	10	0
Feb. 1. 12	29·698	25·2	25·2	25·2	·136	1·6	0·0	100	568	SE	0·0	9	0
13	29·681	24·1	24·1	24·1	·130	1·5	0·0	100	569	SE	0·0	10	0
14	29·657	25·2	25·2	25·2	·136	1·6	0·0	100	568	SE	0·0	10	0
15	29·623	25·2	25·2	25·2	·136	1·6	0·0	100	568	SE	0·0	0	0
16	29·592	24·5	24·5	24·5	·132	1·6	0·0	100	567	SSE	0·0	0	0
17	29·561	24·6	24·6	24·6	·133	1·6	0·0	100	566	SSE	0·0	0	0
18	29·545	25·5	25·5	25·5	·138	1·7	0·0	100	565	SSE	0·0	0	0
19	29·538	27·1	27·1	27·1	·148	1·7	0·0	100	563	SSE	0·0	4	2
20	29·517	28·0	28·0	28·0	·153	1·8	0·0	100	561	SSE	0·0	10	3
21	29·508	30·8	30·3	29·2	·161	2·0	0·4	95	558	SE	0·0	10	4
22	29·488	31·7	31·2	30·1	·168	2·0	0·2	95	556	SSE	0·0	10	0
23	29·475	35·9	32·2	26·6	·145	1·8	0·7	69	551	SSE	0·0	10	0
Feb. 2. 0	29·454	36·6	34·1	30·5	·169	1·9	0·6	79	550	SSE	0·0	10	2
1	29·423	35·9	33·3	29·4	·162	1·9	0·6	77	550	SSE	0·0	10	2

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Jan. 18. 20	10	10	..	..	Overcast ; thin rain falling.
21	0	0	..	..	Overcast ; thin rain falling; at 20h. 20m a great darkness came over like night.
22	18	25	..	..	Overcast ; thin rain falling.
23	10	15	..	..	Overcast ; thin rain falling.
Jan. 19. 0	0	0	..	..	Overcast ; thin rain falling.
1	80	40	..	..	Overcast ; thin rain falling.
2	Out of range	40	..	..	Partially cloudy.
3	Out of range	40	..	..	Partially cloudy.
4	Out of range	40	..	..	Cloudless.
5	Out of range	40	..	..	Cloudless ; fog and haze.
6	Out of range	40	..	..	Cloudless ; fog and haze.
7	Out of range	40	..	..	Cloudless ; fog and haze.
8	Out of range	40	4 B	3 in 1s at 0·03	Cloudless ; fog and haze.
9	Out of range	40	2 B	..	Cloudless ; fog and haze.
10	Out of range	40	2 B	..	Cloudless ; fog and haze.
11	Out of range	40	2 B	..	Cloudless ; fog and haze.
				..	
Jan. 25. 12	15	20	..	..	Cloudless ; fog.
13	10	10	..	..	Cloudless ; fog.
14	10	10	..	..	Cloudless ; fog.
15	12	15	..	..	Cloudless ; fog.
16	20	20	..	..	Dark clouds cover rather more than half the sky.
17	12	15	..	..	Overcast ; fog.
18	20	20	..	..	Overcast ; fog.
19	40	40	..	..	Overcast ; thin rain falling.
20	Out of range	40	..	..	Overcast ; snow falling.
21	80	40	..	..	Overcast ; snow falling.
22	Out of range	40	..	..	Overcast ; snow falling.
23	0	0	..	..	Overcast ; snow falling.
Jan. 26. 0	5	5	..	..	Overcast ; snow falling.
1	8	10	..	..	Overcast ; snow falling.
2	10	10—	..	..	Overcast ; snow falling.
3	30	30	..	..	Overcast ; snow and rain falling.
4	20	30	..	..	Overcast ; snow and rain falling.
5	Out of range	40	..	..	Overcast ; snow and rain falling.
6	30	40	..	..	Overcast ; snow and rain falling.
7	Out of range	40	2 B	..	Overcast ; snow and rain falling.
8	Out of range	40	2 B	..	Overcast ; snow and rain falling.
9	60	40	..	..	Overcast ; snow and rain falling.
10	60	40	..	..	Overcast ; snow and rain falling.
11	40	30	..	..	Overcast ; the snow ceased shortly before this observation.
Feb. 1. 12	Out of range	40	3 B	..	Generally overcast.
13	Out of range	40	2 B	..	Overcast.
14	Out of range	40	2 B	..	Overcast.
15	Out of range	40	2 B	..	Cloudless.
16	Out of range	40	2 B	..	Cloudless.
17	Out of range	40	3 B	..	Cloudless.
18	Out of range	40	3 B	..	Cloudless.
19	Out of range	40	2 B	..	Partially cloudy.
20	80	40	..	..	Overcast.
21	Out of range	40	2 B	1 in 1s at 0·04	Overcast ; snow occasionally falling.
22	50	40	..	..	Overcast.
23	35	30	..	..	Overcast.
Feb. 2. 0	40	40	..	..	Overcast.
1	10	10	..	..	Overcast.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0–10.	0–10.
d h	in.	°	°	°		gr.	gr.		gr.		lbs.		
Feb. 2. 2	29·409	35·1	32·8	29·2	·161	1·8	0·7	78	551	SSE	0·0	10	4
3	29·404	34·6	32·3	28·5	·157	1·8	0·5	78	551	SSE	0·0	10	6
4	29·395	33·1	31·9	29·6	·164	1·9	0·3	86	553	SSE	0·0	10	7
5	29·398	32·4	31·5	29·7	·165	1·9	0·2	89	554	SSE	0·0	10	8
6	29·402	32·0	31·1	29·0	·160	1·9	0·2	88	555	SSE	0·0	10	8
7	29·405	31·8	31·1	29·7	·165	1·9	0·2	92	556	SSE	0·0	10	10
8	29·409	31·2	31·0	30·6	·171	2·1	0·1	98	556	SSE	0·0	10	10
9	29·407	31·2	30·5	28·2	·154	1·9	0·2	90	556	SSE	0·0	8	10
10	29·406	30·8	30·3	29·1	·160	1·9	0·3	94	556	SE	0·0	10	0
11	29·408	30·2	30·0	29·5	·163	2·0	0·1	97	557	SE	0·0	10	0
Feb. 8. 12	29·550	39·7	39·0	38·1	·230	2·6	0·1	94	548	SSW	0·0	10	9
13	29·545	39·7	38·7	37·4	·224	2·6	0·2	92	546	S	0·0	9	10
14	29·541	39·3	38·0	36·3	·214	2·5	0·4	90	548	S	0·0	6	10
15	29·532	38·7	37·8	36·6	·217	2·5	0·2	92	549	S	0·0	7	10
16	29·532	38·2	37·2	35·9	·211	2·5	0·2	91	550	SSE	0·0	8	10
17	29·519	38·3	37·2	35·7	·209	2·5	0·2	91	550	SSE	0·0	2	10
18	29·499	38·1	36·9	35·2	·205	2·4	0·3	91	549	SSE	0·0	2	10
19	29·500	37·6	35·0	31·4	·176	2·0	0·4	79	550	SSE	0·0	1	10
20	29·499	37·1	35·5	33·3	·190	2·0	0·4	86	550	SSE	0·0	1	10
21	29·499	39·7	37·0	33·5	·192	2·2	0·4	78	548	SSE	0·0	6	10
22	29·489	42·8	38·8	33·9	·195	2·3	0·9	72	544	SSE	0·0	5	0
23	29·479	45·3	40·2	34·3	·198	2·3	1·1	65	541	S	1·5	5	0
Feb. 9. 0	29·458	46·6	41·5	35·7	·209	2·4	1·1	67	539	S	3·0	7	1
1	29·432	46·2	41·0	35·1	·204	2·4	1·2	66	539	S	3·0	4	2
2	29·423	47·3	41·6	35·3	·206	2·2	1·4	63	538	SSW	3·0	8	2
3	29·411	46·3	40·8	34·6	·200	2·4	1·2	65	539	SSW	1·5	7	2
4	29·404	44·9	40·3	33·0	·188	2·4	1·0	68	540	SSW	1·5	2	2
5	29·393	43·0	39·3	34·8	·202	2·4	1·0	73	542	S	1·5	3	2
6	29·380	42·7	39·2	34·9	·203	2·3	0·8	74	542	S	2·0	2	3
7	29·375	43·3	39·9	35·9	·211	2·5	0·7	75	541	S	3·0	10	3
8	29·374	44·5	40·9	36·8	·218	2·6	0·8	75	540	S	1·0	10	5
9	29·382	45·8	41·6	36·8	·218	2·5	1·0	72	538	SSW	1·5	10	8
10	29·374	43·4	42·0	40·3	·250	2·9	0·4	89	541	SSW	1·5	10	10
11	29·374	43·4	42·0	40·3	·250	2·9	0·4	89	541	SSW	2·0	10	10
Feb. 15. 12	29·997	29·8	29·8	29·8	·166	2·1	0·0	100	570	SE	0·0	0	2
13	29·998	29·7	29·7	29·7	·165	2·1	0·0	100	570	E	0·0	0	2
14	29·998	28·4	28·4	28·4	·156	1·9	0·0	100	570	ESE	0·0	0	1
15	29·995	28·7	28·7	28·7	·158	1·7	0·0	100	569	ENE	0·0	10	1
16	29·982	30·4	30·4	30·4	·170	2·1	0·0	100	567	ENE	0·0	10	0
17	29·980	30·2	30·2	30·2	·168	2·1	0·0	100	567	ENE	0·0	5	0
18	29·986	31·9	31·4	30·4	·170	2·1	0·4	95	566	SE	0·0	4	0
19	29·992	33·7	32·3	29·8	·166	2·0	0·3	86	564	SSE	0·0	1	0
20	29·991	35·1	35·1	35·1	·204	2·4	0·0	100	562	SSE	0·0	3	0
21	29·994	38·3	38·0	37·6	·225	2·7	0·1	98	558	SSE	0·0	2	0
22	29·988	43·3	41·8	40·1	·248	2·9	0·4	88	552	SSE	0·0	2	0
23	29·984	46·3	44·4	42·3	·270	3·1	0·5	87	549	ENE	0·0	0	0
Feb. 16. 0	29·973	51·2	46·6	41·8	·265	3·0	1·3	72	543	ESE	0·0	0	0
1	29·958	55·0	48·4	42·0	·267	3·0	1·9	62	539	SSW	0·0	0	0
2	29·938	54·5	47·5	40·6	·253	2·9	1·9	60	539	SSE	0·0	0	0
3	29·924	54·9	48·3	42·0	·267	3·0	1·8	62	538	S	0·0	0	0
4	29·928	52·1	46·0	39·8	·245	2·8	1·6	64	541	SSW	0·0	0	0
5	29·936	47·5	43·5	38·9	·237	2·8	1·0	74	547	SSE	0·0	0	0
6	29·935	43·5	41·0	38·0	·229	2·6	0·4	80	552	SSE	0·0	2	0
7	29·938	42·4	39·7	36·4	·215	2·5	0·7	80	553	SSE	0·0	0	0
8	29·942	41·6	38·8	35·3	·206	2·4	0·6	78	554	SE	0·0	0	0
9	29·950	38·9	37·0	34·4	·199	2·3	0·1	97	557	SE	0·0	0	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Feb. 2. 2	20	20	..	..	Overcast.
3	20	20	..	..	Overcast.
4	25	20	..	..	Overcast.
5	60	40	..	..	Overcast.
6	Out of range	40	..	..	Overcast.
7	Out of range	40	..	..	Overcast.
8	Out of range	40	..	..	Overcast.
9	50	40	..	..	Partially cloudy.
10	30	40	..	..	Overcast.
11	30	40	..	..	Overcast.
Feb. 8. 12	0	0	..	..	Overcast.
13	0	0	..	..	Generally overcast.
14	0	0	..	..	Partially cloudy.
15	0	0	..	..	Partially cloudy ; lunar halo.
16	0	0	..	..	Partially cloudy ; lunar halo.
17	0	0	..	..	Partially cloudy ; lunar halo.
18	0	0	..	..	Partially cloudy ; lunar halo.
19	0	0	..	..	Generally cloudless.
20	0	0	..	..	Partially cloudy.
21	0	0	..	..	Partially cloudy.
22	0	0	..	..	Partially cloudy.
23	5	5	..	..	Partially cloudy.
Feb. 9. 0	5	5	..	..	Partially cloudy.
1	5	5	..	..	Partially cloudy.
2	5	5	..	..	Partially cloudy.
3	0	0	..	..	Partially cloudy.
4	5	5	..	..	Partially cloudy.
5	0	0	..	..	Partially cloudy.
6	5	5	..	..	Stratus near the horizon ; otherwise cloudless.
7	0	0	..	..	Overcast.
8	10	5	..	..	Overcast.
9	10	10	..	..	Overcast ; rain falling.
10	30	20—	..	..	Overcast ; rain falling.
11	30	20—	..	..	Overcast ; rain falling.
Feb. 15. 12	20	20	..	..	Cloudless ; fog.
13	30	30	..	..	Cloudless ; fog.
14	30	30	..	..	Cloudless ; fog.
15	40	40	..	..	Overcast ; fog.
16	10	10	..	..	Overcast ; fog.
17	50	40	..	..	Partially cloudy.
18	20	20	..	..	Partially cloudy.
19	10	10	..	..	Generally cloudless.
20	10	10	..	..	Light clouds all over the sky.
21	30	30	..	..	Cirrus in several directions.
22	40	40	..	..	Cirrus in several directions.
23	40	40	..	..	Cloudless.
Feb. 16. 0	40	40	..	..	Cloudless.
1	5	10	..	..	Cloudless.
2	10	10	..	..	Cloudless.
3	5	10	..	..	Cloudless.
4	20	20	..	..	Cloudless.
5	30	30	..	..	Cloudless.
6	Out of range	40	..	..	Generally cloudless ; stratus in the W. and N.
7	Out of range	40	..	..	Cloudless.
8	Out of range	40	..	..	Cloudless.
9	Out of range	40	..	3 in 1^s at 0·02	Cloudless.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°		gr.	gr.		gr.		lbs.		
Feb. 16. 10	29·939	41·7	39·5	36·8	·218	2·7	0·5	84	553	SSW	0·0	0	0
11	29·938	39·6	38·5	37·1	·221	2·6	0·3	91	556	SSW	0·0	0	0
Feb. 22. 12	30·098	38·1	37·0	35·5	·208	2·4	0·3	90	561	SSW	0·0	0	1
13	30·106	37·8	37·1	36·1	·213	2·5	0·2	94	561	SSW	0·0	0	1
14	30·100	36·9	36·5	36·0	·212	2·6	0·2	96	562	SSW	0·0	0	2
15	30·093	37·4	37·0	36·5	·216	2·6	0·1	96	560	SSW	0·0	0	3
16	30·096	38·2	37·6	36·8	·218	2·6	0·2	98	560	SSW	0·0	0	4
17	30·115	36·1	36·0	35·9	·211	2·5	0·0	100	563	ENE	0·0	10	0
18	30·117	35·9	35·7	35·5	·208	2·5	0·0	100	563	SW	0·0	10	0
19	30·133	37·4	37·0	36·5	·216	2·6	0·1	96	561	SW	0·0	10	0
20	30·145	36·9	36·7	36·6	·217	2·6	0·1	99	563	ENE	0·0	10	0
21	30·152	40·1	39·3	38·3	·231	2·7	0·2	93	557	NNE	0·0	10	0
22	30·152	42·7	41·5	40·1	·248	2·9	0·3	90	554	NNE	0·0	5	0
23	30·158	50·3	46·7	42·9	·276	3·2	0·8	76	546	NNE	0·0	3	0
Feb. 23. 0	30·155	52·9	48·0	43·1	·278	3·2	0·9	69	545	ENE	0·0	5	0
1	30·148	51·4	48·0	44·6	·295	3·4	0·7	78	546	ENE	0·0	7	0
2	30·143	53·9	48·6	43·4	·281	3·2	1·0	68	543	NE	0·0	7	0
3	30·143	54·9	48·3	42·0	·267	3·0	1·8	62	541	ENE	0·0	7	0
4	30·132	51·4	47·0	42·4	·271	3·1	1·2	72	546	E	0·0	3	0
5	30·139	47·4	44·7	41·7	·264	3·1	0·7	82	550	SE	0·0	2	0
6	30·144	44·0	42·4	40·5	·252	2·9	0·4	87	552	SE	0·0	0	0
7	30·154	41·0	40·2	39·2	·239	2·8	0·2	94	558	SE	0·0	0	0
8	30.157	39·0	38·0	36·7	·218	2·5	0·3	92	560	SSE	0·0	0	0
9	30·174	38·1	37·6	36·9	·219	2·6	0·1	96	562	SSE	0.0	0	0
10	30·180	35·5	35·5	35·5	·208	2·5	0·0	100	563	SSE	0·0	0	0
11	30·177	34·6	34·6	34·6	·200	2·3	0·0	100	564	ESE	0·0	0	0
Mar. 1. 12	30·381	43·7	43·2	42·6	·273	3·2	0·2	96	559	NE	0·0	10	6
13	30·371	44·0	43·6	43·1	·278	3·2	0·2	97	558	ENE	0·0	10	6
14	30·365	44·1	43·7	43·2	·279	3·2	0·2	97	558	ENE	0·0	10	7
15	30·355	43·7	43·3	42·8	·275	3·2	0·2	97	558	ENE	0·0	10	7
16	30·349	43·0	42·7	42·3	·270	3·1	0·1	98	559	ENE	0·0	10	7
17	30·342	44·0	42·9	41·5	·262	3·0	0·3	91	558	NE	0·0	10	7
18	30·342	43·3	42·8	42·1	·268	3·1	0·2	96	558	NE	0·0	10	7
19	30·356	43·1	43·1	43·1	·278	3·2	0·0	100	554	ENE	0·0	10	7
20	30·368	43·0	43·0	43·0	·277	3·2	0·0	100	559	ENE	0·0	10	7
21	30·371	43·3	43·3	43·3	·280	3·3	0·0	100	559	ENE	0·0	10	7
22	30·376	43·6	43·6	43·6	·284	3·4	0·0	100	559	ESE	0·0	10	0
23	30·376	45·8	45·3	44·9	·298	3·4	0·1	96	557	ESE	0·0	10	1
Mar. 2. 0	30·377	46·7	45·2	43·5	·283	3·5	0·4	91	555	ESE	0·0	10	3
1	30·358	48·8	45·3	41·6	·263	3·0	0·9	77	554	ESE	0·0	10	3
2	30·347	48·6	44·9	40·9	·256	2·9	1·0	74	554	ESE	0·0	10	4
3	30·340	47·2	43·3	38·9	·237	2·7	1·0	74	555	ESE	0·0	10	4
4	30·337	46·0	42·0	37·4	·224	2·6	1·0	73	556	ESE	0·0	10	4
5	30·340	45·1	41·2	36·7	·218	2·5	0·9	73	557	ESE	0·0	10	4
6	30·338	43·5	40·4	36·8	·218	2·4	0·7	77	559	ESE	0·0	10	4
7	30·351	43·2	40·2	37·3	·223	2·5	0·7	78	559	ESE	0·0	10	4
8	30·357	42·7	40·3	37·4	·224	2·6	0·6	88	560	ENE	0.0	10	4
9	30·356	42·5	40·2	37·4	·224	2·6	0·6	83	560	E	0·0	10	4
10	30·353	42·5	40·3	37·6	·225	2·7	0·5	85	560	E	0·0	10	0
11	30·349	42·4	40·6	38·3	·231	2·7	0·5	87	560	E	0·0	10	0
Mar. 8. 12	29·416	31·7	30·8	28·8	·158	1·9	0·2	88	555	WNW	0·0	0	0
13	29·421	30·8	30·6	30.2	·168	2·1	0·1	99	556	WNW	0·0	3	0
14	29·440	30·6	30·4	30·0	·167	2·1	0·1	98	557	WNW	0·0	4	0
15	29·448	31·5	31·0	29·9	·166	2·1	0·1	94	556	WNW	0·0	8	0
16	29·469	32·7	32·0	30·6	·171	2·0	0·2	92	555	NW	0·0	9	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Feb. 16. 10	Out of range	40	..	2 in 1^s at 0·02	Cloudless.
11	Out of range	40	..	3 in 1^s at 0·02	Cloudless.
Feb. 22. 12	10	10	..	..	Cloudless.
13	20	20	..	..	Cloudless.
14	12	10	..	..	Cloudless.
15	8	10	..	..	Cloudless.
16	20	20	..	..	Cloudless.
17	Out of range	40	..	..	Overcast.
18	Out of range	40	..	..	Overcast.
19	Out of range	40	..	..	Overcast.
20	Out of range	40	1 B	1 in 1^s at 0·03	Overcast.
21	Out of range	40	..	volley at 0·04	Overcast.
22	Out of range	40	..	..	Partially cloudy.
23	Out of range	40	..	..	Partially cloudy.
Feb. 23. 0	Out of range	40	..	..	Partially cloudy.
1	Out of range	40	..	..	Partially cloudy.
2	Out of range	40	..	..	Partially cloudy.
3	70	40	..	..	Light clouds in many directions.
4	80	40	..	..	Light clouds in many directions.
5	75	40	..	..	Thin stratus in the S. ; otherwise cloudless.
6	80	40	..	..	Cloudless ; fog.
7	80	40	..	..	Cloudless ; fog.
8	Out of range	40	..	..	Cloudless ; fog.
9	Out of range	40	..	..	Cloudless ; fog.
10	Out of range	40	..	2 in 1^s at 0·02	Cloudless.
11	Out of range	40	..	3 in 1^s at 0·03	Cloudless.
Mar. 1. 12	65	40	..	..	Overcast.
13	70	40	..	..	Overcast.
14	12	15	..	..	Overcast.
15	8	12	..	..	Overcast.
16	20	25	..	..	Overcast.
17	80	40	..	..	Overcast.
18	80	40	..	..	Overcast.
19	80	40	..	..	Overcast ; thick fog.
20	Out of range	40	..	..	Overcast ; thick fog.
21	20	20	..	..	Overcast ; thick fog.
22	40	40	..	..	Overcast ; thick fog.
23	Out of range	40	..	..	Overcast.
Mar. 2. 0	Out of range	40	..	..	Overcast.
1	Out of range	40	..	..	Overcast.
2	70	40	..	..	Overcast.
3	Out of range	40	..	..	Overcast.
4	80	40	..	..	Overcast.
5	Out of range	40	..	..	Overcast.
6	60	40	..	..	Overcast.
7	80	40	..	..	Overcast.
8	60	40	..	..	Overcast
9	Out of range	40	..	..	Overcast.
10	70	40	..	..	Overcast.
11	Out of range	40	..	..	Overcast.
Mar. 8. 12	..	..	..	..	Cloudless.
13	..	..	..	..	Partially cloudy.
14	..	..	..	..	Partially cloudy.
15	..	..	..	..	Generally cloudy.
16	..	..	..	..	Generally cvercast ; high wind.

March 8. The insulating lamp at the top of the Electrometer pole was not burning.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Mar. 8. 17	29·496	32·7	32·0	30·6	·171	2·0	0·2	93	555	NNW	1·5	8	0
18	29·521	32·8	32·6	32·5	·184	2·1	0·1	99	556	NNW	1·5	4	0
19	29·553	34·2	33·0	30·9	·173	2·1	0·2	87	554	NNW	3·2	10	0
20	29·580	34·5	34·0	33·2	·189	2·2	0·1	95	555	NNW	2·0	8	0
21	29·625	37·2	35·5	33·2	·189	2·2	0·4	86	553	N	3·5	7	0
22	29·657	37·9	35·5	32·2	·182	2·1	0·5	81	553	NNE	4·5	9	0
23	29·686	39·5	36·6	32·8	·186	2·2	0·7	77	551	NNE	4·5	4	0
Mar. 9. 0	29·703	40·7	35·5	28·8	·158	1·8	1·1	63	550	NNE	2·0	5	0
1	29·712	43·8	37·3	29·6	·164	1·9	1·4	57	547	NNE	0·0	10	0
2	29·734	40·3	36·8	32·3	·183	2·2	1·1	72	551	NNE	0·0	5	0
3	29·755	34·9	34·2	33·1	·188	2·2	0·2	93	558	NNE	0·0	3	0
4	29·772	37·4	35·1	31·9	·180	2·1	0·6	84	555	NNE	0·0	8	0
5	29·817	36·4	33·4	29·0	·160	1·9	0·7	75	557	NNE	0·0	10	0
6	29·843	33·0	32·1	30·3	·169	2·0	0·2	90	563	NNE	0·0	0	0
7	29·844	32·5	31·8	30·4	·170	2·0	0·1	92	562	NNE	0·0	8	0
8	29·858	32·5	32·4	32·3	·183	2·1	0·1	96	562	NNE	0·0	5	0
9	29·863	32·7	31·4	28·7	·158	1·9	0·3	85	563	NNE	0·0	10	0
10	29·880	31·2	30·5	28·8	·158	1·9	0·2	89	564	NNE	0·0	4	0
11	29·882	30·7	30·0	28·1	·154	1·9	0·2	90	565	NNE	0·0	3	0
Mar. 15. 12	29·720	38·0	36·2	33·8	·194	2·2	0·5	85	554	WSW	2·5	0	1
13	29·738	38·4	36·7	34·5	·199	2·3	0·5	87	554	WSW	3·0	0	1
14	29·754	37·4	36·1	34·5	·199	2·3	0·4	89	555	WSW	0·0	0	1
15	29·764	37·6	36·3	34·5	·199	2·3	0·3	89	554	WSW	0·0	0	1
16	29·781	37·6	36·4	34·8	·202	2·3	0·3	90	555	WSW	0·0	0	1
17	29·796	36·8	35·8	34·5	·199	2·3	0·2	92	556	WSW	0·0	0	2
18	29·814	36·4	35·6	35·1	·204	2·4	0·2	93	557	WSW	0·0	0	2
19	29·834	38·1	36·2	33·7	·193	2·2	0·5	84	556	WSW	0·0	0	2
20	29·848	40·9	39·2	37·1	·221	2·6	0·4	87	553	WSW	0·0	1	2
21	29·849	46·0	42·6	38·7	·235	2·7	0·9	75	547	WSW	0·0	0	2
22	29·866	47·3	43·3	38·8	·236	2·8	1·0	73	546	S	2·0	5	0
23	29·869	49·7	44·8	39·6	·243	2·8	1·2	69	543	S	2·0	7	0
Mar. 16. 0	29·858	51·1	44·7	38·1	·230	2·5	1·9	62	542	S	2·0	3	0
1	29·849	54·5	46·5	41·3	·260	3·0	1·3	69	541	SSW	2·0	8	0
2	29·846	53·9	46·8	39·9	·246	2·8	1·9	59	538	SSW	1·5	5	0
3	29·845	51·0	46·9	42·6	·273	3·1	1·1	73	541	SSW	1·0	6	0
4	29·855	51·5	45·8	39·3	·240	2·8	1·5	63	541	SSE	0·4	8	0
5	29·877	49·2	44·5	38·9	·237	2·8	1·2	69	544	SSE	0·0	7	0
6	29·878	46·4	43·0	39·2	·239	2·9	0·7	82	547	SSE	0·0	3	0
7	29·885	43·3	41·6	39·6	·243	2·8	0·5	87	550	SSE	0·0	0	0
8	29·888	41·6	40·7	39·6	·243	2·8	0·2	94	552	SSE	0·0	0	0
9	29·892	40·1	39·5	38·9	·237	2·8	0·2	95	554	SSE	0·0	0	0
10	29·888	38·9	37·6	35·8	·210	2·5	0·3	90	556	SE	0·0	0	0
11	29·884	38·0	38·0	38·0	·229	2·7	0·0	100	556	SE	0·0	0	0
Mar. 22. 12	29·612	33·5	32·2	29·8	·166	1·9	0·3	88	557	W	0·0	10	0
13	29·608	32·7	31·8	30·0	·167	2·0	0·2	89	557	WSW	0·0	10	0
14	29·595	32·3	32·0	31·4	·176	2·0	0·1	97	558	WSW	0·0	10	0
15	29·584	31·9	31·7	31·5	·177	2·1	0·1	99	558	WSW	0·0	10	0
16	29·580	31·8	31·2	29·9	·166	2·1	0·2	94	558	WSW	0·0	10	0
17	29·576	31·5	31·1	30·3	·169	2·0	0·2	93	558	SW	0·0	10	0
18	29·568	31·5	31·2	30.6	·171	2·1	0·2	97	558	SW	0·0	9	0
19	29·568	31·4	31·0	30·1	·168	2·0	0·1	95	558	SSW	0·0	7	3
20	29·567	33·3	32·1	29·8	·166	2·0	0·3	88	556	SSW	0·0	7	5
21	29·571	34·9	33·1	30·2	·168	2·0	0·4	82	554	SSW	0·0	10	3

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	o	o			
Mar. 8. 17	..	..	..	..	Generally overcast; high wind.
18	..	..	..	..	Partially cloudy; high wind.
19	..	..	..	..	Overcast; high wind; snow falling.
20	..	..	..	..	Generally overcast.
21	..	..	..	..	Cirrus and cirro-cumulus in many directions; violent squalls.
22	..	..	..	..	Generally overcast; violent squalls.
23	..	..	..	..	Partially cloudy; cumulus and cirro-cumulus; violent squalls.
Mar. 9. 0	..	..	..	..	Cirro-cumulus in many directions; the wind is calmer.
1	..	..	..	..	Generally overcast; heavy storm of sleet.
2	..	..	..	..	Partially cloudy; snow fell at $1^h.\ 30^m$.
3	..	..	..	..	Partially cloudy; frequent falls of snow.
4	..	..	..	..	Generally overcast.
5	..	..	..	..	Overcast; hail and snow falling.
6	..	..	..	..	Cloudless; very variable.
7	..	..	..	..	Generally overcast.
8	..	..	..	..	Partially cloudy.
9	..	..	..	..	Overcast; snow falling.
10	..	..	..	..	Stratus and loose scud; a lunar corona; frequent showers of hail and snow.
11	..	..	..	..	Cirro-stratus and loose scud; a lunar corona.
Mar. 15. 12	..	..	..	..	Cloudless.
13	..	..	..	..	Cloudless.
14	..	..	..	..	Cloudless.
15	..	..	..	..	Cloudless.
16	..	..	..	..	Cloudless.
17	..	..	..	..	Cloudless.
18	..	..	..	..	Cloudless.
19	..	..	..	..	Cloudless.
20	..	..	..	..	Generally clear; cirro-stratus and cirrus.
21	..	..	..	..	Cloudless.
22	..	..	..	..	Partially cloudy; cumulus and cirro-cumulus.
23	..	..	..	..	Light clouds in every direction.
Mar. 16. 0	5	5	..	..	Cumulus near the horizon.
1	15	20	..	..	Generally overcast.
2	15	20	..	..	Partially cloudy; cumulus.
3	40	40	..	..	Partially cloudy.
4	35	40	..	..	Dark clouds in every direction.
5	60	40	..	..	Partially cloudy; a few drops of rain fell at $4^h.\ 30^m$.
6	60	40	..	..	Stratus and fragments of cirrus.
7	80	40	..	..	Cloudless.
8	80	40	..	..	Cloudless.
9	50	40	..	..	Cloudless.
10	Out of range	40	..	..	Cloudless; slight fog.
11	Out of range	40	..	..	Cloudless; slight fog.
Mar. 22. 12	0	0	..	..	Overcast.
13	0	0	..	..	Overcast.
14	0	0	..	..	Overcast.
15	0	0	..	..	Overcast.
16	0	0	..	..	Overcast.
17	0	0	..	..	Overcast.
18	0	0	..	..	Generally overcast.
19	0	0	..	..	Partially cloudy; cirro-cumulus.
20	0	0	..	..	Cirro-cumulus and cirrus in many directions.
21	0	0	..	..	Overcast; snow falling.

March 8, 9, and 15. The insulating lamp on the Electrometer pole was not burning.

1857. Month, Day, and Hour.		Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
		Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d	h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Mar. 22.	22	29·565	35·4	33·2	29·8	·166	2·0	0·5	80	554	SSW	0·0	10	0
	23	29·565	35·6	33·2	29·5	·163	1·9	0·5	78	553	SSW	0·0	10	0
Mar. 23.	0	29·554	40·3	36·6	31·9	·180	2·1	0 9	71	548	SSW	0·0	9	0
	1	29·548	40·6	36·2	30·6	·171	1·9	1·0	67	548	SSW	0·0	10	0
	2	29·545	41·7	36·8	30·7	·172	2·0	1·0	66	546	SSW	0·0	8	0
	3	29·540	40·3	36·0	30·5	·170	2·0	1·0	67	548	SSW	0·0	10	0
	4	29·532	41·2	36·6	30·8	·172	2·0	1·0	66	547	SSW	0·0	5	0
	5	29·531	39·8	35·2	29·4	·162	1·8	1·0	65	548	SSW	0·0	0	0
	6	29·538	37·6	34·0	29·0	·160	1·8	0·6	71	551	SSW	0·0	0	0
	7	29·542	35·1	32·9	29·5	·163	1·9	0·6	77	554	SSE	0·0	0	0
	8	29·543	33·3	31·7	28·7	·158	1·9	0·4	82	556	SSE	0·0	0	0
	9	29·542	32·5	31·2	28·5	·156	1·8	0·3	85	557	SSE	0·0	0	0
	10	29·544	31·0	31·0	31·0	·174	2·1	0·0	100	558	SSE	0·0	0	0
	11	29·536	31·0	31·0	31·0	·174	2·1	0·0	100	558	SSE	0·0	0	0
Mar. 29.	12	29·384	45·9	42·3	38·2	·231	2·7	0·9	75	538	SE	0·0	10	0
	13	29·351	45·5	42·1	38·2	·231	2·7	0·8	76	537	SE	0·0	4	0
	14	29·307	45·4	41·9	37·9	·228	2·7	0·8	75	538	SSE	0·0	10	0
	15	29·269	45·5	42·2	38·4	·232	2·7	0·8	76	537	SSE	0·0	10	0
	16	29·242	45·5	42·4	38·9	·237	2·8	0·7	78	536	SSE	0·0	10	0
	17	29·215	44·9	43·0	40·8	·255	2·9	0·5	86	536	SE	0·0	10	0
	18	29·187	44·1	43·5	42·8	·275	3·2	0·2	95	536	SE	0·0	10	1
	19	29·161	44·8	44·3	43·8	·286	3·3	0·1	96	535	SE	0·0	10	2
	20	29·151	46·8	46·0	45·1	·301	3·5	0·2	94	533	SSE	0·0	10	6
	21	29·123	49·8	47·2	44·4	·293	3·4	0·6	82	529	SSW	0·0	6	9
	22	29·108	48·8	47·2	45·4	·304	3·4	0·4	88	530	SW	2·0	10	1
	23	29·096	51·2	48·2	45·1	·301	3·4	0·9	80	527	WSW	2·0	10	3
Mar. 30.	0	29·075	54·3	49·3	44·5	·294	3·4	1·5	69	524	WSW	3·5	9	3
	1	29·055	53·0	48·1	43·2	·279	3·1	1·4	70	525	WSW	4·0	6	3
	2	29·035	50·1	46·7	43·1	·278	3·2	0·9	77	527	WSW	3·5	10	3
	3	29·025	49·0	46·3	43·4	·281	3·2	0·8	81	528	WSW	3·0	10	3
	4	29·019	47·5	45·2	42·7	·274	3·1	0·6	87	530	WSW	0·0	10	3
	5	29·017	45·4	43·7	41·8	·265	2·8	0·5	88	532	WSW	0·0	10	3
	6	29·016	45·0	44·3	43·5	·283	3·2	0·2	94	532	WSW	0·0	10	3
	7	29·020	44·8	43·5	42·0	·267	3·1	0·3	90	533	WSW	0·0	10	5
	8	29·026	44·5	43·0	41·3	·260	3·0	0·4	89	533	WSW	0·0	10	5
	9	29·029	44·2	43·0	41·6	·263	3·0	0·3	90	534	WSW	0·0	10	10
	10	29·028	44·3	43·0	41·5	·262	3·0	0·4	90	533	W	0·0	10	4
	11	29·034	44·4	43·0	41·4	·261	3·0	0·4	89	533	W	0·0	10	5
April 5.	12	29·427	51·3	50·2	49·1	·349	4·0	0·3	92	533	SSE	0·0	10	1
	13	29·425	50·9	49·8	48·7	·344	3·8	0·3	93	533	SSE	0·0	10	1
	14	29·413	50·8	49·7	48·5	·342	3·8	0·3	92	533	SSE	0·0	10	2
	15	29·411	50·4	49·4	48·3	·339	3·8	0·3	93	533	SSE	0·0	10	2
	16	29·410	51·1	50·2	49·3	·352	4·0	0·2	93	533	SSE	0·0	10	2
	17	29·409	51·2	50·1	49·0	·348	4·0	0·4	93	533	SSE	0·0	10	3
	18	29·416	51·7	50·7	49·7	·357	4·0	0·3	93	532	SSW	0·0	10	5
	19	29·442	51·9	51·0	50·1	·362	4·1	0·3	94	532	SSW	0·0	10	6
	20	29·457	53·2	52·1	51·2	·377	4·2	0·4	93	531	SSW	0·0	10	7
	21	29·468	56·5	54·1	51·8	·385	4·3	0·8	85	528	SW	0·0	10	10
	22	29·489	55·2	52·7	50·3	·365	4·1	0·9	84	530	SSW	0·0	10	0
	23	29·503	53·2	51·3	49·4	·353	4·1	0·6	87	532	SSW	0·0	10	0
April 6.	0	29·510	57·8	54·3	51·6	·382	4·2	1·1	79	527	SW	0·0	9	2
	1	29·514	59·3	55·2	51·6	·382	4·3	1·3	75	526	WSW	0·0	10	2
	2	29·522	61·4	56·2	51·8	·385	4·3	1·8	71	524	WSW	0·0	10	2
	3	29·523	61·3	55·7	50·9	·373	4·2	2·0	70	524	WSW	0·0	8	2
	4	29·542	61·3	55·8	51·1	·375	4·2	2·0	70	524	WSW	0·0	7	2

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Mar. 22. 22	0	0	..	..	Overcast ; snow falling.
23	0	0	..	..	Overcast ; snow falling.
Mar. 23. 0	0	0	..	..	Generally overcast.
1	0	0	..	..	Overcast.
2	0	0	..	..	Generally overcast.
3	5	5	..	..	Overcast.
4	5	5	..	..	Partially cloudy ; cumulus and cirrus.
5	30	20	..	..	Cloudless.
6	20	10	..	..	Cloudless.
7	0	0	..	..	Cloudless.
8	0	0	..	..	Cloudless.
9	0	0	..	..	Cloudless.
10	0	0	..	..	Cloudless.
11	0	0	..	..	Cloudless.
Mar. 29. 12	0	0	..	..	Overcast.
13	0	0	..	..	Partially cloudy.
14	0	0	..	..	Overcast; fog.
15	0	0	..	..	Overcast ; fog.
16	0	0	..	..	Overcast ; fog.
17	0	0	..	..	Overcast ; rain falling.
18	0	0	..	..	Overcast ; heavy rain falling.
19	0	0	..	..	Overcast ; thin rain falling.
20	0	0	..	..	Overcast.
21	0	0	..	..	Generally cloudy ; frequent showers of rain.
22	0	0	..	..	Overcast ; strong wind.
23	0	0	..	..	Overcast ; strong wind ; frequent showers of rain.
Mar. 30. 0	5	5	..	..	Generally overcast ; strong wind.
1	10	10	..	..	Partially cloudy ; strong wind.
2	0	0	..	..	Overcast ; heavy squalls.
3	20	20—	..	..	Overcast ; heavy squalls.
4	15	20—	..	..	Overcast ; thin rain falling.
5	80	40—	2° to B	..	Overcast ; heavy rain falling.
6	5	5—	..	..	Overcast ; heavy rain falling.
7	0	0	..	..	Overcast ; thin rain falling.
8	0	0	..	..	Overcast.
9	0	0	..	..	Overcast.
10	0	0	..	..	Overcast.
11	0	0	..	..	Overcast.
April 5. 12	0	0	..	..	Overcast.
13	0	0	..	..	Overcast.
14	0	0	..	..	Overcast ; rain falls occasionally.
15	0	0	..	..	Overcast.
16	0	0	..	..	Overcast.
17	0	0	..	..	Overcast.
18	0	0	..	..	Overcast.
19	0	0	..	..	Overcast.
20	0	0	..	..	Overcast.
21	0	0	..	..	Overcast.
22	0	0	..	..	Overcast.
23	0	0	..	..	Overcast.
April 6. 0	0	0	..	..	Generally overcast.
1	0	0	..	..	Overcast.
2	0	0	..	..	Overcast.
3	0	0	..	..	Partially overcast ; cirro-cumulus ; cirrus and nimbus.
4	0	0	..	..	Partially overcast ; cirro-cumulus ; cirrus and nimbus.

1857. Month, Day, and Hour.	Readings of: Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Hygrometrical Deductions: Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Wind: Direction.	Wind: Pressure.	Clouds. 0—10.	Ozone. 0—10.
	in.		°	°	in.	gr.	gr.		gr.		lbs.		
April 6. 5	29·563	56·8	54·0	51·4	·379	4·2	0·9	82	529	SSW	0·0	6	0
6	29·576	55·4	53·0	50·8	·371	4·2	0·8	85	531	SSW	0·0	8	0
7	29·601	52·9	51·4	49·9	·360	4·0	0·4	91	534	SSW	0·0	6	0
9	29·635	52·5	50·8	49·1	·349	3·9	0·5	88	535	SSW	0·0	9	0
10	29·645	50·8	49·5	48·1	·336	3·9	0·4	91	537	SSW	0·0	5	0
11	29·660	49·0	48·2	47·3	·327	3·8	0·2	94	540	SSW	0·0	0	0
April 12. 12	28·865	38·8	37·7	36·3	·214	2·5	0·3	91	537	WSW	3·0	10	7
13	28·834	38·1	37·2	36·0	·212	2·5	0·2	93	537	WNW	3·0	10	8
14	28·834	36·2	35·8	35·2	·205	2·4	0·1	95	539	NNW	0·0	10	8
15	28·820	35·1	34·5	33·6	·193	2·2	0·2	94	540	WNW	0·0	10	9
16	28·814	34·5	34·2	33·7	·193	2·2	0·2	95	541	WNW	0·0	1	9
17	28·805	34·0	33·3	32·1	·182	2·2	0·2	94	541	WNW	0·0	3	9
18	28·805	34·1	33·5	32·5	·184	2·2	0·1	94	541	WNW	0·0	5	10
19	28·806	36·3	35·1	33·4	·192	2·2	0·4	90	538	WNW	3·5	7	10
20	28·819	37·9	36·1	33·6	·193	2·2	0·4	85	537	NW	4·0	10	10
21	28·820	38·5	36·6	34·1	·196	2·3	0·5	85	536	NW	4·0	10	9
22	28·825	38·4	37·1	35·3	·206	2·4	0·4	88	536	NNW	3·5	10	0
23	28·837	39·5	37·2	34·3	·198	2·4	0·6	82	536	NNW	3·0	10	0
April 13. 0	28·852	39·9	38·0	35·6	·208	2·4	0·4	85	535	WNW	3·0	10	0
1	28·861	42·7	40·5	37·9	·228	2·6	0·5	84	532	WNW	3·0	10	0
2	28·854	44·2	40·3	35·7	·209	2·5	0·8	72	531	WNW	2·0	10	0
3	28·866	43·2	39·6	35·3	·206	2·4	0·8	74	532	WNW	2·5	10	0
4	28·891	43·9	40·0	35·4	·207	2·4	0·9	72	531	NW	4·5	10	0
5	28·913	38·5	38·0	37·3	·223	2·7	0·1	96	538	NW	3·0	10	0
6	28·940	38·5	38·1	37·5	·225	2·7	0·1	96	538	NW	4·5	10	0
7	28·969	38·6	37·0	34·8	·202	2·3	0·4	87	539	NW	4·0	10	0
8	28·977	37·3	36·5	35·4	·207	2·5	0·4	92	540	NW	4·5	10	0
9	28·998	33·4	33·4	33·4	·191	2·2	0·0	100	544	NW	4·5	10	0
10	29·011	34·5	34·5	34·5	·199	2·3	0·0	100	544	NW	4·0	10	0
11	29·025	34·5	34·5	34·5	·199	2·3	0·0	100	544	NW	4·0	10	0
April 19. 12	30·033	46·5	44·4	42·1	·268	3·1	0·5	86	549	WSW	0·0	0	0
13	30·039	46·0	44·3	42·3	·273	3·2	0·4	88	550	WSW	0·0	0	0
14	30·041	45·5	43·9	41·8	·265	3·6	0·4	88	551	WSW	0·0	0	0
15	30·045	44·0	43·1	42·1	·268	3·0	0·3	93	552	WSW	0·0	0	0
16	30·046	43·0	42·3	41·5	·262	3·0	0·2	94	554	WSW	0·0	0	0
17	30·053	42·5	41·9	41·2	·259	3·0	0·1	95	554	WSW	0·0	0	0
18	30·074	44·1	42·7	41·4	·261	2·9	0·4	90	555	WSW	0·0	0	0
19	30·101	47·7	45·8	43·8	·286	3·2	0·6	88	549	WSW	0·0	0	2
20	30·108	52·5	48·5	44·4	·293	3·4	1·0	75	544	WNW	0·0	0	1
21	30·122	53·4	49·4	45·5	·305	3·5	1·1	75	543	WSW	0·0	0	2
22	30·125	58·2	52·0	46·4	·316	3·6	1·9	65	537	WNW	0·0	2	0
23	30·121	61·5	53·2	46·0	·311	3·5	2·6	57	535	W	0·0	4	0
April 20. 0	30·111	64·3	55·4	48·1	·336	3·7	3·0	55	532	W	0·0	6	0
1	30·107	63·5	54·4	46·8	·321	3·6	2·9	56	532	W	0·0	6	0
2	30·101	66·1	56·2	48·2	·338	3·7	3·3	53	530	W	0·0	7	0
3	30·097	62·5	53·8	46·4	·316	3·5	2·8	56	532	WNW	0·0	8	0
4	30·095	63·7	54·3	46·4	·316	3·5	3·0	54	536	WNW	0·0	3	0
5	30·093	60·6	52·0	44·6	·295	3·2	2·7	56	538	WNW	0·0	2	0
6	30·098	58·2	50·5	43·6	·284	3·2	2·3	58	538	WNW	0·0	1	0
7	30·102	55·3	49·4	43·8	·286	3·2	1·8	66	541	NW	0·0	3	0
8	30·115	54·3	48·6	43·1	·278	3·2	1·6	66	543	WNW	0·0	4	0
9	30·124	53·5	48·3	43·2	·279	3·2	1·4	69	542	WNW	0·0	9	0
10	30·119	52·9	47·5	42·1	·268	3·1	1·4	67	541	WNW	0·0	0	0
11	30·131	49·0	46·0	42·8	·275	3·1	0·9	79	548	WNW	0·0	0	0

April 6d. 8h. The observation was inadvertently omitted.

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws. of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
April d h 6. 5	° 0	° 0	..	..	Partially cloudy.
6	0	0	..	..	Generally cloudy.
7	0	0	..	..	Partially cloudy ; lunar corona.
9	10	10	..	..	Generally overcast.
10	10	10	..	..	Partially cloudy ; lunar corona.
11	10	15	..	..	Cloudless.
April 12. 12	5	5	..	..	Overcast ; gusty wind.
13	0	0	..	..	Overcast ; gusty wind ; thin rain falling.
14	0	0	..	..	Overcast ; rain falling heavily.
15	0	0	..	..	Overcast.
16	0	0	..	..	Generally cloudless.
17	0	0	..	..	Partially cloudy.
18	5	5	..	..	Partially cloudy.
19	5	5	..	..	Generally overcast ; high wind.
20	0	0	..	..	Overcast ; violent squalls.
21	0	0	..	..	Overcast ; rain falling ; violent squalls.
22	25	30—	..	..	Overcast ; rain falling ; violent squalls.
23	0	0	..	..	Overcast ; violent squalls.
April 13. 0	0	0	..	..	Overcast ; slight rain falling ; violent squalls.
1	0	0	..	..	Overcast ; violent squalls.
2	0	0	..	..	Overcast ; violent squalls.
3	0	0	..	..	Overcast ; violent squalls.
4	0	0	..	..	Overcast ; violent squalls.
5	Out of range	40 ; 40—	5° to A	..	Overcast ; heavy rain falling ; violent squalls.
6	0	0	..	..	Overcast ; high wind.
7	0	0	..	..	Overcast ; high wind.
8	0	0	..	..	Overcast ; high wind.
9	0	0	..	..	Overcast ; high wind ; heavy squalls of snow and rain.
10	0	0	..	..	Overcast ; high wind.
11	0	0	..	..	Overcast ; high wind.
April 19. 12	12	15	..	..	Cloudless.
13	8	15	..	..	Cloudless.
14	5	5	..	..	Cloudless.
15	15	20	..	..	Cloudless.
16	20	25	..	..	Cloudless.
17	30	35	..	..	Cloudless.
18	80	40	..	..	Cloudless.
19	Out of range	40	..	..	Cloudless.
20	Out of range	40	..	..	Cloudless ; haze.
21	Out of range	40	..	..	Cloudless ; thick fog.
22	Out of range	40	..	..	Generally cloudless.
23	30	30	..	..	Light clouds here and there.
April 20. 0	5	5	..	..	Partially cloudy ; cumulus.
1	0	0	..	..	Partially cloudy ; cumulus and cirrus.
2	0	0	..	..	Partially cloudy ; cumulus and cirrus.
3	0	0	..	..	Cumulus, cirrus, and cirro-cumulus in all directions.
4	20	20	..	..	Cumulus and cirro-cumulus near the horizon.
5	30	40	..	..	Generally cloudless.
6	0	0	..	..	Generally cloudless.
7	10	20	..	..	Light clouds here and there.
8	20	30	..	..	Hazy.
9	20	20	..	..	Generally overcast.
10	30	20	..	..	Cloudless.
11	30	20	..	..	Cloudless.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs		
April 26. 12	29·892	36·5	34·3	31·1	·174	2·1	0·5	81	558	NNE	2·0	10	0
13	29·884	36·1	34·0	30·7	·173	2·0	0·5	83	559	NNE	2·0	10	0
14	29·879	36·1	34·0	30·9	·173	2·0	0·5	83	559	NNE	0·0	10	0
15	29·872	35·8	34·3	32·0	·181	2·0	0·4	87	559	NNE	0·0	10	0
16	29·876	36·1	34·5	31·6	·178	2·0	0·4	86	559	NNE	0·0	10	0
17	29·885	36·1	34·4	31·9	·180	2·1	0·4	84	559	NNE	0·0	10	0
18	29·892	36·3	34·6	32·1	·182	2·1	0·5	85	559	NNE	0·0	10	0
19	29·888	37·7	35·5	32·5	·184	2·1	0·5	82	557	NNE	0·0	10	0
20	29·896	38·1	36·0	33·2	·189	2·2	0·5	82	557	NNE	0·0	10	0
21	29·895	39·7	36·6	32·5	·184	2·1	0·7	76	555	NNE	0·0	10	0
22	29·888	40·8	36·7	31·5	·177	2·0	0·9	70	554	NNE	0·0	10	0
23	29·890	41·9	36·8	30·5	·170	1·9	1·2	65	552	NNE	0·0	10	0
April 27. 0	29·901	42·3	37·7	32·1	·182	2·1	1·1	72	552	NNE	0·0	10	0
1	29·894	45·0	39·8	33·8	·194	2·3	1·1	65	548	NNE	0·0	10	0
2	29·889	44·0	39·0	33·1	·188	2·2	1·2	65	550	NNE	0·0	10	0
3	29·879	45·4	40·4	34·7	·201	2·4	1·1	66	548	NNE	0·0	10	0
4	29·894	42·1	38·3	33·7	·193	2·3	0·8	74	552	NNE	0·0	10	0
5	29·900	42·5	38·4	33·4	·191	2·3	0·9	71	552	NNE	0·0	10	0
6	29·899	41·9	37·7	32·5	·184	2·1	1·0	70	553	NNE	0·0	10	0
7	29·898	40·8	37·1	32·4	·184	2·1	0·8	71	554	NNE	0·0	10	0
8	29·927	40·3	36·8	31·7	·179	2·1	0·9	73	555	NNE	0·0	10	0
9	29·931	39·6	36·8	33·0	·188	2·2	0·7	77	555	NNE	0·0	10	0
10	29·935	38·6	36·5	33·7	·193	2·2	0·5	83	557	NNE	0·0	10	0
11	29·938	38·1	36·2	33·7	·193	2·2	0·5	83	558	NNE	0·0	10	0
May 3. 12	30·036	34·1	33·5	32·5	·184	2·2	0·1	94	564	NE	0·0	0	0
13	30·024	33·3	32·9	32·2	·182	2·1	0·1	96	564	NE	0·0	0	0
14	30·008	33·1	32·8	32·2	·182	2·2	0·1	96	564	NE	0·0	0	0
15	30·005	32·2	32·1	32·0	·181	2·1	0·1	99	565	NE	0·0	0	0
16	29·999	32·7	32·6	32·5	·184	2·1	0·1	99	565	NE	0·0	0	2
17	30·002	33·7	33·6	33·5	·192	2·2	0·1	99	564	NE	0·0	1	2
18	30·010	37·3	36·7	35·9	·211	2·5	0·2	94	559	NE	0·0	10	2
19	30·013	42·2	40·4	38·2	·231	2·7	0·4	87	555	NE	0·0	10	3
20	30·019	44·1	41·4	38·2	·231	2·7	0·6	80	552	NE	0·0	10	5
21	30·020	47·0	42·6	37·7	·226	2·6	1·1	71	549	NNE	0·0	10	7
22	30·008	49·0	43·1	36·5	·216	2·5	1·5	62	547	ENE	0·0	10	0
23	30·007	49·3	43·6.	37·5	·225	2·6	1·4	64	546	ENE	0·0	10	0
May 4. 0	29·995	51·1	45·4	39·5	·242	2·8	1·4	65	544	ENE	0·0	7	0
1	29·996	51·2	45·0	38·6	·234	2·7	1·6	62	544	ENE	0·0	8	0
2	29·992	53·7	47·3	41·0	·257	2·9	1·7	62	541	ENE	0·0	5	0
3	29·985	52·2	45·0	37·7	·226	2·6	1·8	58	543	ENE	0·0	8	0
4	29·993	52·5	45·3	38·0	·229	2·7	1·8	59	542	ENE	0·0	9	0
5	29·994	50·9	43·6	36·0	·212	2·4	1·8	58	544	ENE	0·0	6	0
6	30·001	48·7	42·5	35·6	·208	2·4	1·5	60	549	ENE	0·0	8	0
7	30·009	47·5	40·4	32·5	·184	2·2	1·6	56	548	ENE	0·0	2	0
8	30·015	42·0	38·6	34·4	·199	2·3	0·8	76	555	ENE	0·0	1	0
9	30·023	39·7	37·5	34·7	·201	2·3	0·5	82	557	ENE	0·0	0	0
10	30·040	37·6	36·3	34·5	·199	2·3	0·3	89	560	ENE	0·0	0	0
11	30·043	36·1	35·0	33·4	·191	2·2	0·3	90	562	ENE	0·0	0	0
May 10. 12	29·496	48·5	47·4	46·1	·312	3·5	0.4	92	537	ENE	0·0	10	0
13	29·496	49·2	48·3	47·3	·327	3·8	0·3	94	536	ENE	0·0	10	0
14	29·495	48·8	48·5	48·3	·339	3·7	0·4	98	537	ENE	0·0	10	0
15	29·493	49·2	48·0	48·8	·345	4·0	0·1	99	536	ENE	0·0	10	3
16	29·490	49·0	48·5	48·0	·335	3·9	0·1	98	536	ENE	0·0	10	8
17	29·496	49·1	48·5	47·9	·334	3·9	0·1	98	536	ENE	0·0	10	8
18	29·502	49·8	49·1	48·3	·339	3·9	0·2	95	536	ENE	0·0	10	8
19	29·508	50·1	49·5	49·0	·348	4·0	0·2	96	535	ENE	0·0	10	9

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
h d	°	°			
April 26. 12	10	10	..	..	Overcast.
13	5	5	..	..	Overcast.
14	5	5	..	..	Overcast.
15	20	20	..	..	Overcast.
16	10	10	..	..	Overcast.
17	20	20	..	..	Overcast.
18	15	15	..	..	Generally overcast.
19	25	25	..	..	Overcast.
20	10	10	..	..	Overcast.
21	30	30	..	..	Overcast.
22	0	0	..	..	Overcast.
23	5	5—	..	..	Overcast.
April 27. 0	10	10	..	..	Overcast.
1	0	0	..	..	Overcast.
2	5	10	..	..	Overcast.
3	10	10	..	..	Overcast.
4	5	5	..	..	Overcast.
5	30	40	..	..	Overcast.
6	8	15	..	..	Overcast.
7	20	20	..	..	Overcast.
8	20	20	..	..	Overcast.
9	Out of range	40	..	..	Overcast.
10	Out of range	40	..	..	Overcast.
11	Out of range	40	..	..	Overcast.
May 3. 12	15	20	..	..	Cloudless.
13	10	10	..	..	Cloudless.
14	8	10	..	..	Cloudless.
15	5	5	..	..	Cloudless.
16	5	5	..	..	Cloudless.
17	10	10	..	..	Generally cloudless.
18	20	20	..	..	Overcast.
19	20	20	..	..	Overcast.
20	10	10	..	..	Overcast.
21	10	10	..	..	Overcast.
22	8	10	..	..	Overcast.
23	8	5	..	..	Overcast.
May 4. 0	10	10	..	..	Partially cloudy ; cirro-cumulus.
1	15	15	..	..	Cirro-cumulus and cirro-stratus all over the sky.
2	20	20	..	..	Cirro-cumulus and cirro-stratus all over the sky.
3	5	5	..	..	Cirro-cumulus and cirro-stratus all over the sky.
4	5	5	..	..	Generally overcast.
5	10	10	..	..	Partially cloudy.
6	10	10	..	..	Generally cloudy.
7	25	30	..	..	Cirro-stratus here and there.
8	30	30	..	..	Almost cloudless.
9	40	40	..	..	Cloudless.
10	40	40	..	..	Cloudless.
11	40	40	..	..	Cloudless.
May 10. 12	..	..	..	..	Overcast.
13	..	..	..	..	Overcast ; thin rain falling.
14	..	..	..	..	Overcast ; thin rain falling.
15	..	..	..	..	Overcast ; thin rain falling.
16	..	..	..	..	Overcast ; thin rain falling.
17	..	..	..	..	Overcast ; thin rain falling.
18	..	..	..	..	Overcast ; thin rain falling.
19	..	..	..	..	Overcast ; thin rain falling.

May 10. The insulating lamp on the Electrometer pole was not burning.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
May 10. 20	29·500	52·3	51·3	50·3	·365	4·1	0·3	93	533	ENE	0·0	10	10
21	29·510	56·6	54·5	52·6	·397	4·5	0·7	86	529	ENE	0·0	10	9
22	29·524	59·2	55·7	52·5	·396	4·5	1·2	79	526	NNE	0·0	10	0
23	29·530	62·4	57·7	53·7	·413	4·6	1·8	74	523	NNE	0·0	8	0
May 11. 0	29·522	62·9	58·1	54·1	·419	4·6	1·8	73	522	NNE	0·0	10	1
1	29·521	67·1	60·4	55·0	·433	4·9	2·5	62	518	NNE	0·0	3	1
2	29·528	66·8	60·1	54·7	·428	4·7	2·5	65	518	Calm	0·0	5	2
3	29·532	69·2	61·4	55·4	·439	4·8	3·0	61	516	E	0·0	4	2
4	29·531	65·1	59·3	54·5	·425	4·7	2·1	67	520	E	0·0	8	2
5	29·543	63·9	58·4	53·8	·415	4·6	1·9	71	522	ESE	0·0	6	2
6	29·548	62·6	57·6	53·3	·407	4·5	1·9	72	523	Calm	0·0	4	2
7	29·606	58·0	55·5	53·3	·407	4·5	0·9	84	529	Calm	0·0	6	2
8	29·630	57·1	53·8	50·7	·370	4·1	1·1	80	530	Calm	0·0	1	2
9	29·641	53·9	51·8	49·8	·358	4·0	0·6	87	534	Calm	0·0	0	0
10	29·661	52·5	51·0	49·5	·355	4·0	0·4	90	536	Calm	0·0	0	0
11	29·675	51·6	50·5	49·4	·353	3·9	0·4	92	537	Calm	0·0	0	0
May 17. 12	29·915	52·0	48·2	44·3	·292	3·3	1·1	73	541	SW	0·0	0	0
13	29·912	50·6	47·0	43·2	·279	3·2	0·9	76	543	SW	0·0	0	0
14	29·908	48·8	45·5	41·9	·266	3·1	0·5	78	546	SW	0·0	0	0
15	29·904	47·4	44·6	41·5	·262	3·1	0·5	81	546	SW	0·0	0	0
16	29·906	45·8	43·7	41·3	·260	2·9	0·6	85	548	SW	0·0	0	0
17	29·904	45·1	43·5	40·2	·249	3·0	0·4	88	549	SW	0·0	0	2
18	29·904	50·6	47·5	44·2	·290	3·3	0·8	80	542	SW	0·0	2	2
19	29·902	56·9	52·8	49·1	·349	3·9	1·2	75	535	SW	0·0	0	3
20	29·891	61·7	56·2	51·5	·381	4·3	1·9	69	530	SW	0·0	0	0
21	29·897	69·2	60·8	54·2	·421	4·6	3·3	53	523	SW	0·0	0	5
22	29·890	72·4	61·8	53·9	·416	4·6	4·0	52	519	SW	0·0	0	0
23	29·883	72·1	59·8	51·1	·375	4·0	4·6	47	520	SW	0·0	0	0
May 18. 0	29·867	75·2	62·8	53·9	·416	4·5	5·0	47	516	SW	0·0	0	0
1	29·854	77·2	63·9	54·6	·427	4·5	5·5	46	514	SW	0·0	2	0
2	29·838	77·9	63·7	53·9	·416	4·4	5·9	44	513	SW	0·0	1	0
3	29·829	78·0	62·0	50·9	·373	4·0	6·3	39	513	SW	0·0	0	0
4	29·817	75·5	60·9	50·4	·366	4·0	5·6	42	515	SSW	0·0	0	0
5	29·806	71·7	58·8	49·1	·349	3·8	4·6	45	519	WSW	0·0	0	0
6	29·810	68·3	55·7	45·8	·308	3·4	4·2	44	523	NNW	0·0	3	0
7	29·812	64·7	58·4	53·1	·404	4·5	2·3	66	526	NW	0·0	6	0
8	29·819	61·7	56·0	51·1	·375	4·2	2·0	68	529	WNW	0·0	3	0
9	29·828	58·8	54·8	51·2	·377	4·2	1·4	76	532	SW	0·0	0	0
10	29·835	56·6	53·0	49·7	·357	4·0	1·1	77	534	WSW	0·0	1	0
11	29·832	55·4	53·0	50·7	·370	4·2	0·6	85	536	SW	0·0	0	0
May 24. 12	29·458	49·8	48·2	46·5	·317	3·6	0·4	89	535	SSE	0·0	10	0
13	29·450	50·8	48·6	46·3	·315	3·6	0·6	85	534	SE	0·0	7	0
14	29·439	49·9	48·3	46·6	·318	3·6	0·5	89	535	ESE	0·0	9	0
15	29·423	48·6	47·1	45·4	·304	3·4	0·5	90	536	ENE	0·0	9	0
16	29·413	48·0	46·6	43·2	·279	3·4	0·4	90	536	ESE	0·0	8	1
17	29·407	50·4	49·1	47·7	·331	3·7	0·4	96	534	ESE	0·0	7	1
18	29·406	54·9	52·6	50·4	·366	4·1	0·8	85	528	ESE	0·0	7	2
19	29·406	58·8	54·8	51·2	·377	4·2	1·3	76	524	S	0·0	0	2
20	29·393	62·4	57·1	52·6	·397	4·4	1·9	70	520	SE	0·0	1	2
21	29·371	66·0	58·2	51·9	·386	4·3	2·7	61	517	SE	0·0	3	0
22	29·352	68·9	58·2	51·3	·378	4·2	3·1	59	516	ESE	0·0	8	1
23	29·342	71·1	61·7	54·3	·421	4·6	3·7	56	511	SE	1·0	8	1
May 25. 0	29·322	70·0	57·4	46·3	·315	3·4	4·4	45	512	ESE	1·5	7	1
1	29·300	68·3	60·0	53·5	·410	4·5	3·1	59	513	ESE	2·0	8	1

1857. Month, Day, and Hour.	Electrical Indications.				Clouds and Weather.
	Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	
d h	°	°			
May 10. 20	..	..	..	..	Overcast; thin rain falling.
21	..	..	..	..	Overcast.
22	..	..	..	..	Overcast.
23	..	..	..	..	Generally overcast.
May 11. 0	0	0	..	..	Cumulus and cirro-cumulus cover the sky.
1	0	0	..	..	Cumulus near the horizon; otherwise cloudless.
2	0	0	..	..	Partially cloudy; cirro-cumulus.
3	5	5	..	..	Partially cloudy; cirro-cumulus.
4	15	15	..	..	Generally overcast.
5	Out of range	40; 40—	..	..	Partially cloudy; cumulus and cirro-cumulus.
6	60	40	..	..	Cumulus and cirro-stratus here and there.
7	30	30	..	..	Cirro-stratus all over the sky.
8	10	10	..	..	Cirro-cumulus and cirro-stratus near the horizon.
9	20	20	..	..	Cloudless.
10	20	20	..	..	Generally cloudless; frequent flashes of lightning.
11	30	20	..	..	Generally cloudless; frequent flashes of lightning.
May 17. 12	0	0	..	..	Cloudless.
13	0	0	..	..	Cloudless.
14	0	0	..	..	Cloudless.
15	0	0	..	..	Cloudless.
16	30	30	..	..	Cloudless.
17	20	25	..	..	Cloudless.
18	40	40	..	..	Cirro-cumulus in the zenith.
19	35	30	..	..	Cloudless.
20	60	40	..	..	Cloudless.
21	40	40	..	..	Cloudless.
22	12	10	..	..	Cloudless.
23	10	10	..	..	Cloudless.
May 18. 0	10	10	..	..	Cloudless.
1	10	10	..	..	Cirro-cumulus near the horizon.
2	5	5	..	..	Light cirrus near the horizon.
3	10	10	..	..	Cloudless.
4	10	10	..	..	Cloudless.
5	5	5	..	..	Cloudless.
6	20	20	..	..	Cirrus and cirro-stratus near the horizon.
7	20	20	..	..	Cirrus and cirro-stratus near the horizon.
8	0	0	..	..	Cumulus, cirrus, and cirro-stratus cover a large portion of the sky.
9	20	20	..	..	Cloudless.
10	10	20	..	..	Stratus in the W.; elsewhere clear.
11	20	30	..	..	Cloudless.
May 24. 12	0	0	..	..	Overcast.
13	0	0	..	..	Cirro-cumulus in many directions.
14	5	5	..	..	Generally overcast; cirro-cumulus.
15	0	0	..	..	Generally overcast; cirro-cumulus and cirro-stratus.
16	0	0	..	..	Cirrus, cirro-stratus, and cirro-cumulus cover a large portion of the sky.
17	5	5	..	..	Partially cloudy; cirro-stratus.
18	10	10	..	..	Cirrus in many directions.
19	5	5	..	..	Cloudless.
20	0	0	..	..	Cirro-stratus and cirrus about the horizon.
21	0	0	..	..	Cirro-cumulus in the S.; elsewhere clear.
22	0	0	..	..	Cumulus and cirro-cumulus in many directions.
23	0	0	..	..	Cumulus and cirro-cumulus in many directions.
May 25. 0	0	0	..	..	Cirro-cumulus in all directions.
1	20	30	..	..	Generally overcast; cirro-cumulus; strong wind.

1857. Month, Day, and Hour.		Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
		Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d	h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
May 25.	2	29·279	68·3	59·2	52·1	·389	4·3	3·3	56	513	ESE	2·0	8	1
	3	29·265	66·8	57·7	50·4	·366	4·0	3·2	61	514	ESE	2·0	8	2
	4	29·246	63·6	56·7	51·0	·374	4·1	2·3	64	517	ESE	2·0	9	2
	5	29·237	59·2	55·0	51·2	·377	4·3	1·4	75	521	ESE	1·5	10	2
	6	29·228	59·4	55·4	51·9	·386	4·3	1·3	76	521	ESE	1·0	10	3
	7	29·224	56·8	54·4	52·2	·391	4·3	0·8	84	523	ESE	0·0	9	4
	8	29·234	55·4	54·0	52·6	·397	4·5	0·5	91	524	ESE	0·0	10	4
	9	29·252	54·2	53·3	52·4	·394	4·5	0·3	94	526	ESE	0·0	10	5
	10	29·257	53·4	52·5	51·6	·382	4·4	0·3	95	527	ESE	0·0	10	5
	11	29·270	52·9	51·6	50·3	·365	4·0	0·4	92	528	ESE	0·0	10	5
May 31.	12	29·934	44·4	43·8	43·1	·278	3·2	0·2	95	550	NE	0·0	0	0
	13	29·924	43·2	43·1	43·0	·277	3·2	0·6	99	551	NE	0·0	0	0
	14	29·915	41·5	41·5	41·5	·262	3·0	0·0	100	553	NNE	0·0	0	0
	15	29·906	40·1	40·1	40·1	·248	2·9	0·0	100	554	NNE	0·0	0	0
	16	29·899	40·7	40·7	40·7	·254	3·0	0·0	100	554	NNE	0·0	0	2
	17	29·901	41·6	41·6	41·6	·263	3·2	0·0	100	553	NNE	0·0	0	3
	18	29·894	47·4	46·6	45·8	·308	3·5	0·2	94	546	NNE	0·0	0	3
	19	29·891	53·2	50·8	48·4	·340	3·8	0·8	84	541	NNE	0·0	0	4
	20	29·886	59·9	54·4	49·5	·355	3·9	1·9	68	532	ENE	0·0	3	5
	21	29·887	65·7	57·4	50·7	·370	4·0	2·9	58	526	ENE	0·0	4	6
	22	29·888	62·4	52·7	44·4	·293	3·3	3·0	52	530	ESE	0·0	10	0
	23	29·880	63·1	51·5	41·6	·263	2·9	3·5	45	529	E	0·0	10	0
June 1.	0	29·869	63·8	54·8	47·2	·325	3·5	3·0	56	528	E	0·0	8	0
	1	29·863	64·7	54·5	46·1	·312	3·4	3·3	51	527	E	0·0	7	0
	2	29·861	65·4	54·6	45·8	·308	3·4	3·5	49	527	E	0·0	3	0
	3	29·859	64·8	54·1	45·3	·303	3·3	3·4	59	527	E	0·0	1	0
	4	29·846	62·4	51·3	41·8	·265	3·0	3·3	47	529	E	0·0	0	0
	5	29·848	58·9	49·7	41·5	·262	2·9	2·7	52	533	E	0·0	2	0
	6	29·842	56·6	48·9	41·7	·264	3·0	2·1	58	535	E	0·0	3	0
	7	29·840	53·9	49·0	44·2	·290	3·3	1·4	69	538	E	0·0	0	0
	8	29·835	51·7	48·5	45·3	·303	3·4	0·9	79	540	E	0·0	0	0
	9	29·834	50·8	47·9	44·9	·298	3·4	0·8	80	541	ENE	0·0	0	0
	10	29·837	49·0	46·6	44·0	·288	3·3	0·7	83	542	ESE	0·0	0	0
	11	29·825	47·0	45·5	43·8	·286	3·3	0·4	89	545	ESE	0·0	0	0
June 7.	12	29·567	56·5	54·4	52·4	·394	4·4	0·7	87	530	SW	2·0	10	0
	13	29·575	55·7	53·2	50·8	·371	4·2	0·7	84	531	SW	1·5	10	2
	14	29·583	55·1	52·3	49·6	·356	4·0	0·9	83	531	SW	1·0	9	2
	15	29·585	54·0	51·3	48·7	·344	3·9	0·8	82	533	SW	1·0	10	2
	16	29·594	53·6	51·2	48·9	·346	3·9	0·7	83	533	SW	1·0	2	2
	17	29·600	54·9	51·7	48·6	·343	3·9	1·0	79	532	SW	1·0	3	2
	18	29·609	56·6	52·3	48·3	·339	3·8	1·3	74	531	SW	1·0	6	3
	19	29·617	57·4	53·1	49·2	·351	3·9	1·4	73	530	SW	2·3	7	3
	20	29·614	60·0	55·0	50·6	·369	4·1	1·7	71	527	SW	1·5	1	3
	21	29·611	61·5	55·6	50·5	·367	4·2	1·6	68	525	SW	2·0	8	2
	22	29·609	65·0	57·2	50·8	·371	4·1	2·7	60	522	SW	2·5	6	0
	23	29·602	65·7	57·8	51·4	·379	4·1	2·8	59	521	SW	2·0	6	0
June 8.	0	29·619	63·4	58·3	54·0	·418	4·7	1·8	72	524	SW	3·0	3	0
	1	29·620	65·1	57·2	50·7	·370	4·2	2·7	60	522	SW	1·5	6	0
	2	29·603	67·7	59·0	52·1	·389	4·3	3·2	57	519	SW	2·0	5	0
	3	29·609	65·8	57·7	51·1	·375	4·1	2·8	60	521	SW	2·0	7	0
	4	29·620	56·0	54·3	52·7	·399	4·5	0·7	89	531	SW	0·0	10	1
	5	29·608	53·5	52·3	50·5	·367	4·2	0·4	90	533	SW	0·0	10	1
	6	29·606	56·2	53·8	51·4	·379	4·3	0·7	85	531	SW	0·0	5	3
	7	29·619	54·6	53·0	51·4	·379	4·3	0·5	89	533	SW	0·0	8	3
	8	29·625	54·0	53·0	52·0	·388	4·4	0·3	93	533	SW	0·0	4	6

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
May 25. 2	20	20	..	..	Generally overcast; cirro-cumulus.
3	30	30	..	..	Generally overcast; cirro-cumulus.
4	15	20	..	..	Generally overcast; hail fell at $3^h.\ 40^m$.
5	Out of range	40—	12° to B	2 in 1″ at 0·03	Overcast; hail and rain falling; thunder heard every few minutes.
6	Out of range	40—	..	..	Overcast; rain falling.
7	Out of range	40—	..	..	Overcast.
8	Out of range	40—	..	..	Overcast; rain falling.
9	Out of range	40—	..	..	Overcast; rain falling.
10	Out of range	40—	..	..	Overcast; the rain has ceased.
11	Out of range	40—	..	..	Overcast.
May 31. 12	..	..	..	..	Cloudless.
13	..	..	..	..	Cloudless.
14	..	..	..	..	Cloudless.
15	..	..	..	..	Cloudless.
16	..	..	..	..	Cloudless.
17	..	..	..	..	Cloudless.
18	..	..	..	..	Cloudless.
19	..	..	..	..	Cloudless.
20	..	..	..	..	Cumulus in many directions.
21	..	..	..	..	Partially cloudy; cumulus and cirro-cumulus.
22	0	0	..	..	Overcast; cirro-cumulus.
23	10	10	..	..	Overcast; cirro-cumulus and cumulus.
June 1. 0	5	5	..	..	Generally overcast.
1	0	0	..	..	Cumulus and cirro-cumulus all over the sky.
2	5	5	..	..	Cirro-cumulus and cirro-stratus scattered over the sky.
3	0	0	..	..	Generally cloudless.
4	5	5	..	..	Cloudless.
5	5	5	..	..	Cirrus near the horizon.
6	10	10	..	..	Cirrus near the horizon.
7	20	20	..	..	Cloudless.
8	40	30	..	..	Cloudless.
9	20	30	..	..	Cloudless.
10	20	30	..	..	Cloudless.
11	20	30	..	..	Cloudless.
June 7. 12	..	..	..	..	Overcast; strong wind.
13	..	..	..	..	Overcast.
14	..	..	..	..	Generally overcast.
15	..	..	..	..	Overcast.
16	..	..	..	..	Cumulus and cirro-cumulus near the horizon.
17	..	..	..	..	Cumulus and cirro-cumulus near the horizon.
18	..	..	..	..	Cumulus and cirro-cumulus all over the sky.
19	..	..	..	..	Generally cloudy; cirro-cumulus.
20	..	..	..	..	Principally cloudless.
21	..	..	..	..	Cumulus in all directions.
22	..	..	..	..	Cumulus clouds cover about half the sky.
23	..	..	..	..	Cumulus clouds cover about half the sky; a very strong [wind has prevailed throughout the night.
June 8. 0	..	..	..	..	Light clouds here and there; strong wind.
1	..	..	..	..	Cumulus covers about half the sky; strong wind.
2	..	..	..	..	Cumulus covers about half the sky.
3	..	..	..	..	Generally cloudy; the wind has lulled.
4	..	..	..	..	Overcast; heavy rain falling.
5	60	40	..	..	Overcast; frequent showers of rain.
6	..	..	..	..	Cumulus and cirro-cumulus cover about half the sky.
7	100	40	..	..	Generally overcast; rain falling.
8	..	..	..	..	Partially cloudy.

May 31 and June 7. The insulating lamp on the Electrometer pole was not burning.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
June 8. 9	29·632	52·9	52·3	51·7	·384	4·3	0·1	96	534	SW	0·0	0	8
10	29·631	52·0	51·0	50·0	·361	4·1	0·3	93	536	SW	0·0	0	8
11	29·625	51·5	50·8	50·1	·362	4·1	0·3	94	536	SW	0·0	0	9
June 14. 12	29·848	47·0	46·8	46·7	·319	3·7	0·1	99	545	E	0·0	0	0
13	29·842	47·8	47·4	46·9	·322	3·6	0·2	96	544	ENE	0·0	0	0
14	29·830	47·6	47·2	46·7	·319	3·7	0·2	96	544	ENE	0·0	0	0
15	29·807	49·6	48·2	46·7	·319	3·7	0·4	90	542	ENE	0·0	0	4
16	29·803	49·2	47·3	45·2	·302	3·5	0·5	87	542	ESE	0·0	0	4
17	29·813	49·3	47·4	45·3	·303	3·5	0·6	87	542	ESE	0·0	0	4
18	29·809	55·6	51·7	48·0	·335	3·7	1·2	76	535	ESE	1·0	0	6
19	29·810	58·5	53·0	48·1	·336	3·8	1·7	68	532	ESE	2·0	0	8
20	29·803	60·2	54·2	48·9	·346	3·9	1·9	65	530	ESE	2·0	0	8
21	29·813	61·7	53·7	46·7	·319	3·5	2·6	58	529	ESE	2·0	1	0
22	29·809	64·3	54·4	46·2	·313	3·5	3·2	52	527	E	2·0	0	0
23	29·807	65·3	54·5	45·7	·307	3·4	3·5	48	526	E	2·0	0	0
June 15. 0	29·801	66·0	55·3	46·6	·318	3·5	3·5	49	525	E	2·5	0	0
1	29·801	64·7	54·4	45·9	·309	3·4	3·3	51	526	E	2·0	0	0
2	29·800	65·3	54·9	46·4	·316	3·5	3·4	50	525	E	2·0	0	0
3	29·795	64·9	55·2	47·3	·327	3·6	3·2	53	526	E	2·0	2	0
4	29·794	64·2	55·8	48·9	·346	3·8	2·9	58	526	E	2·0	1	0
5	29·786	61·2	53·5	46·8	·321	3·6	2·5	59	529	E	2·0	0	0
6	29·791	59·2	53·6	48·6	·343	3·9	1·7	68	531	E	2·0	0	0
7	29·801	57·0	51·3	46·1	·312	3·5	1·7	67	534	E	0·0	0	0
8	29·805	55·1	50·6	46·2	·313	3·6	1·3	73	536	E	0·0	0	0
9	29·815	53·4	50·3	47·2	·325	3·7	0·9	80	538	ENE	0·0	1	0
10	29·815	50·6	47·7	44·7	·296	3·3	0·8	80	542	ENE	0·0	0	0
11	29·813	49·2	46·5	43·6	·284	3·3	0·8	81	542	ENE	0·0	0	0
June 21. 12	29·899	61·0	60·5	60·1	·520	5·8	0·2	97	530	N	0·0	0	8
13	29·898	60·6	60·3	60·0	·518	5·8	0·2	97	530	N	0·0	10	8
14	29·906	58·9	58·8	58·7	·494	5·5	0·1	99	533	NNE	0·0	10	9
15	29·913	57·2	57·2	57·2	·469	5·2	0·0	100	534	N	0·0	10	10
16	29·921	55·7	55·7	55·7	·444	5·1	0·0	100	536	NNE	0·0	10	10
17	29·944	55·4	55·3	55·2	·436	5·0	0·0	100	537	NNE	0·0	10	10
18	29·959	55·8	55·5	55·3	·437	5·0	0·1	98	537	NNE	0·0	10	10
19	29·978	56·3	55·7	55·1	·434	4·8	0·2	96	537	NNW	0·0	10	8
20	29·986	57·1	56·2	55·4	·439	4·9	0·3	92	536	N	0·0	10	8
21	29·996	58·2	57·0	55·9	·447	5·0	0·5	92	535	N	0·0	10	10
22	30·001	59·3	58·0	56·9	·464	5·1	0·5	92	534	N	0·0	10	2
23	30·005	59·8	58·1	56·7	·461	5·0	0·7	89	533	N	0·0	10	0
June 22. 0	30·015	61·9	59·4	57·3	·470	5·2	1·0	85	531	N	0·0	10	0
1	30·009	64·7	61·2	58·1	·483	5·3	1·4	79	528	N	0·0	10	0
2	29·999	68·6	63·6	59·8	·514	5·6	2·0	73	524	N	0·0	6	0
3	30·001	70·8	65·2	60·9	·535	5·8	2·4	71	522	N	0·0	0	0
4	30·004	71·6	65·0	60·0	·518	5·6	2·8	67	521	N	0·0	0	0
5	30·003	72·2	65·5	60·5	·528	5·8	2·8	66	521	NNE	0·0	4	0
6	30·007	69·1	64·8	61·4	·545	6·0	1·0	77	524	NNE	0·0	0	0
7	30·008	67·0	64·0	61·6	·548	6·0	1·3	83	526	NNE	0.0	0	0
8	30·016	63·7	62·5	61·5	·546	6·1	0·5	93	529	NNE	0·0	0	0
9	30·027	61·5	60·7	60·0	·518	5·9	0·3	95	532	SSW	0·0	0	2
10	30·030	61·2	60·5	59·9	·516	5·8	0·3	96	532	SSW	0·0	0	2
11	30·032	60·7	60·0	59·4	·507	5·7	0·3	96	533	SSW	0·0	0	2
June 28. 12	29·618	64·2	62·2	60·4	·526	5·9	0·8	88	522	WSW	0·0	3	0
13	29·623	64·4	59·6	55·6	·443	4·9	2·0	73	522	WSW	0·0	4	0
14	29·593	60·1	58·3	56·7	·461	5·2	0·6	89	526	WSW	0·0	10	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
June. 8 9	..	..	..	..	Cloudless.
10	..	..	..	..	Cloudless.
11	..	..	..	..	Cloudless.
June 14. 12	..	..	..	..	Cloudless.
13	..	..	..	..	Cloudless.
14	..	..	..	..	Cloudless.
15	..	..	..	..	Cloudless.
16	..	..	..	..	Cloudless.
17	..	..	..	..	Cloudless.
18	..	..	..	..	Cloudless.
19	..	..	..	..	Cloudless.
20	..	..	..	..	Cloudless.
21	..	..	..	..	Generally cloudless; cirrus in the S.; high wind.
22	..	..	..	..	Cloudless; high wind.
23	..	..	..	..	Cloudless; high wind.
June 15. 0	..	..	..	..	Cloudless; high wind.
1	..	..	..	..	Cloudless; high wind.
2	..	..	..	..	Cloudless; high wind.
3	..	..	..	..	Cirro-cumulus here and there; high wind.
4	..	..	..	..	Cirro-cumulus here and there; high wind.
5	..	..	..	..	Cloudless; high wind.
6	..	..	..	..	Cloudless; high wind.
7	..	..	..	..	Cloudless; high wind.
8	..	..	..	..	Cloudless.
9	..	..	..	..	Generally cloudless.
10	..	..	..	..	Cloudless.
11	..	..	..	..	Cloudless.
June 21. 12	..	..	..	..	Cloudless; slight haze.
13	..	..	..	..	Overcast.
14	..	..	..	..	Overcast.
15	..	..	..	..	Overcast.
16	..	..	..	..	Overcast.
17	..	..	..	..	Overcast.
18	..	..	..	..	Overcast.
19	..	..	..	..	Overcast.
20	..	..	..	..	Overcast.
21	..	..	..	..	Overcast.
22	..	..	..	..	Overcast.
23	..	..	..	..	Overcast.
June 22. 0	..	..	..	..	Overcast.
1	..	..	..	..	Overcast.
2	..	..	..	..	Cumulus and cirro-cumulus cover rather more than half the sky.
3	..	..	..	..	Cloudless; haze.
4	..	..	..	..	Cloudless; haze.
5	..	..	..	..	Partially cloudy.
6	..	..	..	..	Cloudless; haze.
7	..	..	..	..	Cloudless.
8	..	..	..	..	Cloudless.
9	..	..	..	..	Cloudless.
10	..	..	..	..	Cloudless.
11	..	..	..	..	Cloudless.
June 28. 12	..	..	..	..	Partially cloudy; stratus in the N.
13	..	..	..	..	Cirrus and cirro-cumulus; high wind.
14	..	..	..	..	Overcast; high wind.

June 14. The insulating lamp on the Electrometer pole was not burning.
June 15 to 28. The Electrical apparatus was under adjustment.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
June 28. 15	29·588	59·3	57·5	56·0	·449	5·0	0·7	89	527	WSW	0·0	10	0
16	29·584	59·3	57·2	55·4	·439	4·9	0·7	87	527	WSW	0·0	9	0
17	29·580	59·6	57·2	55·1	·434	4·9	0·8	85	528	WSW	0·0	7	0
18	29·589	60·2	57·4	54·9	·431	4·9	1·0	83	526	WSW	0·0	8	2
19	29·592	63·2	59·6	56·5	·457	5·1	1·4	79	523	WSW	0·0	3	1
20	29·592	65·7	61·4	57·8	·479	5·3	1·7	76	520	WSW	0·0	10	0
21	29·586	66·5	62·4	59·1	·501	5·5	1·6	78	519	WSW	0·0	10	3
22	29·584	67·8	63·2	59·6	·511	5·5	1·9	75	518	WSW	0·0	10	0
23	29·577	69·9	64·3	60·0	·518	5·6	2·4	71	516	WSW	2·0	10	0
June 29. 0	29·568	73·7	66·2	60·7	·531	5·8	3·3	64	512	WSW	2·0	7	0
1	29·551	75·4	67·2	61·4	·545	5·9	3·7	62	510	WSW	1·5	10	0
2	29·549	70·8	64·2	59·2	·503	5·4	2·8	67	514	WSW	1·5	10	0
3	29·541	73·7	66·0	60·3	·524	5·7	2·6	63	511	WSW	2·0	9	0
4	29·529	71·2	64·5	59·5	·509	5·6	2·8	66	513	WSW	1·5	2	0
5	29·519	68·6	62·5	57·7	·477	5·3	2·4	68	516	WSW	1·5	6	0
6	29·515	67·6	61·8	57·2	·469	5·1	2·3	69	517	WSW	1·5	2	0
7	29·524	65·1	60·7	57·1	·467	5·2	1·6	77	519	SSW	0·0	8	0
8	29·512	62·0	59·4	57·1	·467	5·2	1·0	84	523	SSW	0·0	1	0
9	29·501	60·7	58·5	56·6	·459	5·2	0·9	87	524	S	0·0	10	0
10	29·506	60·9	58·0	55·5	·441	4·9	1·1	83	524	SSW	0·0	10	0
11	29·496	59·4	57·5	55·9	·447	5·1	0·7	89	524	SSW	0·0	10	0
July 5. 12	29·476	59·1	58·0	57·0	·465	5·2	0·4	93	525	SSW	0·0	1	0
13	29·474	59·0	57·8	56·7	·461	5·1	0·5	93	525	SSW	0·0	10	0
14	29·469	58·7	57·7	56·8	·462	5·2	0·5	93	525	SW	0·0	10	3
15	29·470	58·2	57·4	56·7	·461	5·2	0·4	94	525	SW	0·0	10	6
16	29·485	58·0	57·1	56·3	·454	5·0	0·4	94	526	SSW	0·0	10	7
17	29·494	58·2	57·2	56·3	·454	5·0	0·4	93	526	WSW	0·0	10	8
18	29·501	59·3	57·7	56·3	·454	5·1	0·6	90	525	WSW	0·0	10	9
19	29·504	60·5	58·2	56·2	·453	5·1	0·8	86	524	WSW	0·0	10	10
20	29·514	64·0	59·7	56·1	·451	5·0	1·6	76	521	WSW	0·0	5	10
21	29·531	67·9	61·4	56·3	·454	4·9	2·6	65	517	WNW	1·0	8	10
22	29·541	64·2	57·5	51·9	·386	4·3	2·3	64	521			9	0
23	29·554	66·1	58·4	52·1	·389	4·3	2·7	61	520			8	0
July 6. 0	29·553	67·6	58·1	50·6	·369	4·0	3·4	54	518			7	0
1	29·557	66·1	57·2	50·0	·361	4·0	3·1	55	520			9	0
2	29·564	65·7	57·0	49·9	·360	3·9	3·0	57	520			10	0
3	29·564	66·6	58·0	51·1	·375	4·1	3·0	58	520			10	0
4	29·557	64·3	58·8	54·2	·421	4·6	2·0	69	522			5	0
5	29·572	55·5	54·0	52·5	·396	4·4	0·5	90	531			9	0
6	29·564	55·8	53·5	51·4	·379	4·2	0·7	86	531			7	0
7	29·566	53·9	50·3	46·8	·321	3·6	1·1	77	533			8	0
8	29·577	51·6	50·0	48·4	·340	3·8	0·0	89	535			10	0
9	29·588	49·5	49·3	49·1	·349	4·0	0·1	98	538			6	0
10	29·603	50·0	49·6	49·1	·349	4·0	0·1	97	537			9	0
11	29·606	50·5	50·2	49·9	·360	4·1	0·1	98	537			3	0
July 12. 12	30·175	59·8	57·6	55·7	·444	4·9	0·8	86	537	SW	0·0	0	0
13	30·167	59·4	57·5	55·8	·446	4·9	0·7	89	537	SW	0·0	0	0
14	30·170	58·2	56·6	55·1	·434	4·9	0·6	83	539	SW	0·0	0	0
15	30·173	57·8	56·0	54·4	·424	4·6	0·7	88	539	SSW	0·0	0	0
16	30·174	56·8	55·2	53·8	·415	4·6	0·5	89	540	SSW	0·0	0	3
17	30·177	56·6	55·0	53·6	·412	4·6	0·5	89	540	SW	0·0	0	3
18	30·196	61·2	58·0	55·2	·436	4·9	1·2	81	536	SW	0·0	0	3
19	30·195	63·2	60·3	58·0	·482	4·1	1·2	83	533	SW	0·0	0	3
20	30·198	70·1	62·4	56·4	·456	4·0	3·0	60	527	WSW	0·0	0	2
21	30·186	74·9	65·0	57·9	·480	4·2	4·2	55	521	WSW	0·0	0	2

July 5d. 22h. to July 6d. 11h. The Anemometer was under repair.

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	o	o			
June 28. 15	..	..	..	..	Overcast; high wind.
16	..	..	..	..	Partially overcast.
17	..	..	..	..	Partially overcast.
18	..	..	..	..	High cirrus.
19	..	..	..	..	Cirrus here and there.
20	..	..	..	..	Overcast; high wind.
21	..	..	..	..	Overcast; high wind.
22	..	..	..	..	Overcast; high wind.
23	..	..	..	..	Overcast; high wind.
June 29. 0	..	..	..	..	Cumulus and cirro-cumulus cover a large portion of the sky; strong wind.
1	..	..	..	..	Overcast; strong wind.
2	..	..	..	..	Overcast; strong wind.
3	..	..	..	..	Generally overcast; strong wind.
4	..	..	..	..	Generally cloudless; strong wind.
5	..	..	..	..	Partially cloudy; strong wind.
6	..	..	..	..	Cirro-cumulus here and there.
7	..	..	..	..	Generally overcast.
8	..	..	..	..	Cirrus near the horizon.
9	..	..	..	..	Overcast.
10	..	..	..	..	Overcast.
11	..	..	..	..	Overcast.
July 5. 12	0	0	..	..	Generally cloudless.
13	0	0	..	..	Overcast.
14	0	0	..	..	Overcast.
15	0	0	..	..	Overcast.
16	0	0	..	..	Overcast.
17	0	0	..	..	Overcast.
18	0	0	..	..	Overcast.
19	0	0	..	..	Overcast.
20	5	5	..	..	Cumulus and cirro-cumulus in many directions.
21	20	20	..	..	Generally overcast; strong wind.
22	5	5	..	..	Generally overcast; strong wind.
23	0	0	..	..	Generally overcast; strong wind.
July 6. 0	0	0	..	..	Partially overcast; strong wind.
1	0	0	..	..	Generally overcast; very high wind.
2	0	0	..	..	Overcast.
3	0	0	..	..	Overcast.
4	Out of range	40—	..	3 in 1s at 0·02	Cumulus and cirro-cumulus; rain falling; high wind.
5	Out of range	40—	..	..	Stratus and cumulo-stratus; heavy rain falling; high wind.
6	..	..	..	..	Partially overcast; strong wind.
7	..	..	..	..	Partially overcast; strong wind.
8	..	..	..	..	Overcast; heavy rain fell at 7h. 30m.
9	..	..	..	..	Partially cloudy; strong breeze.
10	..	..	..	..	Generally overcast; at 9h. 10m it was cloudless.
11	..	..	..	..	Clouds near the horizon.
July 12. 12	20	20	..	..	Cloudless.
13	10	10	..	..	Cloudless.
14	10	10	..	..	Cloudless.
15	5	5	..	..	Cloudless.
16	0	0	..	..	Cloudless.
17	0	0	..	..	Cloudless.
18	5	5	..	..	Cloudless.
19	5	5	..	..	Cloudless.
20	5	5	..	..	Cloudless.
21	0	0	..	..	Cloudless.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
July 12. 22	30·185	76·9	65·6	57·7	·477	5·2	4·8	51	520	WSW	0·0	0	0
23	30·184	78·5	66.0	57·4	·472	5·0	5·4	48	518	WSW	0·0	0	0
July 13. 0	30·182	81·0	67·8	58·9	·498	5·3	6·0	46	516	WSW	0·0	2	0
1	30·176	81·2	67·8	58·8	·496	5·3	6·1	46	516	WSW	0·0	3	0
2	30·171	84·0	70·1	61·0	·537	5·6	6·8	45	512	WSW	0·0	4	0
3	30·170	78·5	67·2	59·4	·507	5·5	4·9	52	518	WSW	0·0	5	0
4	30·156	80·0	68·2	60·1	·520	5·6	5·6	51	516	WSW	0·0	5	0
5	30·152	77·0	66·6	59·3	·505	5·5	4·5	55	519	WSW	0·0	5	0
6	30·153	73·9	65·2	58·9	·498	5·4	3·7	60	522	WSW	0·0	3	0
7	30·154	73·0	65·0	59·1	·501	5·4	3·4	62	523	NW	0·0	5	0
8	30·159	69·3	63·5	59·0	·500	5·4	2·4	69	534	NW	0·0	6	0
9	30·168	66·8	62·0	58·2	·485	5·3	1·9	74	538	NE	0·0	5	0
10	30·175	65·0	60·6	57·0	·465	5·1	1·7	76	531	NE	0·0	0	0
11	30·174	62·7	59·5	56·7	·461	5·2	1·2	81	534	NE	0·0	0	0
July 19. 12	29·848	64·2	60·1	56·7	·461	5·1	1·6	76	526	SSE	0·0	0	3
13	29·842	62·0	59·1	56·6	·459	5·1	1·1	82	528	SSE	0·0	0	3
14	29·829	59·3	58·3	57·4	·472	5·2	0·4	94	531	SSE	0·0	0	4
15	29·806	58·5	57·9	57·4	·472	5·2	0·3	95	532	SSE	0·0	0	5
16	29·802	57·4	56·7	56·0	·449	4·9	0·3	95	533	SSE	0·0	0	5
17	29·815	60·7	59·7	58·8	·496	5·5	0·5	94	529	WSW	0·0	0	5
18	29·816	68·3	63·6	60·0	·518	5·7	1·9	75	522	WSW	0·0	0	6
19	29·821	67·0	63·4	60·5	·528	5·7	1·6	80	523	WNW	0·0	0	6
20	29·821	69·3	64·7	61·2	·541	5·9	1·9	76	521	WNW	0·0	0	6
21	29·832	75·0	68·0	63·0	·576	6·2	3·2	66	515	WNW	0·0	6	6
22	29·838	76·9	68·7	63·0	·576	6·3	3·7	63	513	WNW	0·0	7	0
23	29·838	77·5	68·0	61·4	·545	5·8	4·3	57	513	WNW	1·0	9	0
July 20. 0	29·837	79·6	69·2	62·0	·556	6·0	4·8	55	511	WNW	1·0	6	3
1	29·842	82·2	70·5	62·6	·568	6·0	5·7	52	508	WNW	0·0	1	4
2	29·841	83·4	71·5	63·6	·588	6·2	6·0	51	507	WNW	1·0	5	5
3	29·844	80·9	69·5	61·9	·554	5·9	5·4	51	510	WNW	1·5	6	5
4	29·839	79·5	68·8	61·5	·546	5·7	5·0	54	511	WNW	2·0	7	6
5	29·840	76·7	66·7	59·7	·512	5·5	4·4	55	514	WNW	0·8	7	6
6	29·838	74·9	65·8	59·3	·505	5·4	3·9	58	516	WNW	1·5	3	6
7	29·848	71·1	65·0	60·3	·524	5·7	2·6	69	519	WNW	2·0	8	5
8	29·861	67·5	62·0	57·6	·475	5·2	2·2	70	523	W	1·0	3	5
9	29·877	63·0	57·0	51·9	·386	4·3	2·1	67	528	W	1·5	5	5
10	29·888	60·9	56·0	51·8	·385	4·3	1·7	71	531	W	0·0	2	0
11	29·892	60·3	56·0	52·3	·393	4·4	1·5	74	531	W	0·0	8	0
July 26. 12	29·851	57·8	55·2	52·9	·401	4·5	0·9	83	533	SSW	0·0	0	0
13	29·841	57·7	55·2	53·0	·403	4·5	0·9	84	533	SSW	0·0	0	0
14	29·831	57·3	55·0	53·9	·416	4·5	0·8	85	533	SSW	0·0	0	0
15	29·828	56·6	54·6	52·7	·399	4·5	0·7	87	534	SSW	0·0	7	3
16	29·815	57·1	55·4	53·9	·416	4·6	0·6	89	533	SSW	0·0	10	4
17	29·805	57·6	56·2	55·0	·433	4·7	0·6	91	533	SSW	0·0	10	7
18	29·800	59·5	57·5	55·7	·444	5·0	0·7	88	530	SSW	0·0	9	10
19	29·803	62·2	59·0	56·2	·453	5·1	1·2	81	528	SSW	0·0	10	10
20	29·800	67·3	61·9	57·2	·469	5·2	2·1	70	522	SSW	0·0	4	10
21	29·789	68·3	62·5	58·0	·482	5·4	2·2	69	521	SSW	0·0	9	10
22	29·783	70·0	62·2	56·2	·453	5·0	3·0	62	519	SSW	0·0	10	0
23	29·783	71·1	63·2	57·2	·469	5·2	3·1	62	518	WSW	2·0	10	0
July 27. 0	29·777	72·3	65·3	60·0	·518	5·6	3·0	61	517	WSW	2·5	6	0
1	29·774	74·9	66·7	60·8	·533	5·7	3·7	61	514	WSW	2·5	10	0
2	29·761	75·6	67·0	60·8	·533	5·7	3·8	60	513	WSW	2·0	8	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
July 12. 22	5	5	..	..	Cloudless.
23	15	10	..	..	Cloudless.
July 13. 0	5	5	..	..	Cirrus and cirro-cumulus.
1	0	0	..	..	Cirrus and cirro-cumulus in many directions.
2	5	5	..	..	Cirrus and cirro-cumulus in many directions.
3	10	10	..	..	Cirrus and cirro-cumulus in many directions.
4	5	10	..	..	Cirrus and cirro-cumulus in many directions.
5	30	30	..	..	Cumulus and cirro-cumulus cover about half the sky.
6	40	40	..	..	Cumulus here and there.
7	60	40	..	..	Cumulus and cirro-stratus.
8	80	40	..	..	Stratus near the horizon; cirro-cumulus in other directions;
9	60	40	..	..	Cumulus and stratus in and about the zenith. [haze.
10	20	20	..	..	Cloudless.
11	0	0	..	..	Cloudless.
July 19. 12	0	0	..	..	Cloudless.
13	0	0	..	..	Cloudless.
14	0	0	..	..	Cloudless.
15	0	0	..	..	Cloudless.
16	60	40	..	..	Cloudless.
17	Out of range	40	..	..	Cloudless.
18	Out of range	40	..	..	Cloudless.
19	Out of range	40	..	..	Cloudless.
20	Out of range	40	1° to B	..	Cloudless.
21	10	10	..	..	Cumulus, cirro-cumulus, and stratus in many directions.
22	10	10	..	..	Cumulus, cirro-cumulus, and stratus in many directions.
23	5	5	..	..	Generally overcast; cirro-cumulus.
July 20. 0	0	0	..	..	Cumulus and cirro-cumulus cover rather more than half the
1	5	5	..	..	Cirrus and cirro-cumulus scattered over the sky. [sky.
2	10	10	..	..	Cirrus and cirro-cumulus scattered over the sky.
3	5	5	..	..	Cirrus and cirro-cumulus scattered over the sky.
4	5	5	..	..	Cumulus, cirro-cumulus, and cirrus.
5	0	0	..	..	Cumulus, cirro-cumulus, and cirrus.
6	0	0	..	..	Cumulus, cirro-cumulus, and cirrus.
7	0	0	..	..	Partially overcast.
8	20	30	..	..	Stratus and fragments of cirrus; strong breeze.
9	30	20	..	..	Stratus and fragments of cirrus; strong breeze.
10	30	20	..	..	Generally clear; cirro-stratus in the N.E.
11	40	30	..	..	Generally overcast.
July 26. 12	30	30	..	..	Cloudless.
13	25	30	..	..	Cloudless.
14	10	10	..	..	Cloudless.
15	10	10	..	..	Cirro-cumulus and cirro-stratus partially cover the sky.
16	5	5	..	..	Overcast.
17	3	5	..	..	Overcast; occasional showers of rain.
18	12	10	..	..	Generally overcast.
19	30	30	..	..	Overcast.
20	25	20	..	..	Cirrus and cirro-stratus here and there.
21	40	40	..	..	Generally overcast; cirro-cumulus.
22	3	5	..	..	Overcast.
23	0	0	..	..	Overcast.
July 27. 0	0	0	..	..	Cumulus and cirro-cumulus cover about half the sky.
1	0	0	..	..	Overcast; strong breeze.
2	10	10	..	..	Generally overcast; strong breeze.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
July 27. 3	29·760	73·7	66·2	60·6	·529	5·8	3·3	64	515	WSW	2·0	6	0
4	29·746	71·6	64·8	59·7	·512	5·5	2·9	66	517	WSW	2·5	10	0
5	29·744	71·1	67·7	60·0	·518	5·6	2·7	68	517	WSW	2·0	10	0
6	29·734	70·1	64·5	60·4	·526	5·7	2·3	71	518	WSW	2·0	5	0
7	29·735	67·6	63·0	59·4	·507	5·5	1·9	75	521	WSW	1·5	8	0
8	29·748	65·7	62.5	59·8	·514	5·6	1·3	82	523	WSW	0·0	6	0
9	29·752	65·7	62·5	59·8	·514	5·6	1·3	82	523	WSW	0·0	10	0
10	29·742	64·7	62·0	59·7	·512	5·7	1·1	84	523	WSW	0·0	7	0
11	29·747	64·7	62·0	59·7	·512	5·7	1·1	84	523	WSW	0·0	3	0
Aug. 2. 12	29·943	61·3	58·3	55·8	·446	4·9	1·1	82	531	SSW	0·0	0	0
13	29·941	60·9	58·2	55·9	·447	5·0	1·0	84	531	SSW	0·0	0	0
14	29·931	59·1	57·6	60·4	·526	5·1	0·5	91	533	SSW	0·0	0	0
15	29·925	58·6	57·2	56·0	·449	4·9	0·5	91	533	SSW	0·0	0	0
16	29·919	57·8	56·9	56·1	·451	4·9	0·4	94	534	SSW	0·0	0	0
17	29·915	57·4	56·7	56·0	·449	4·9	0·3	95	535	SSW	0·0	0	0
18	29·913	62·9	60·3	58·2	·485	5·3	1·1	84	529	SSW	0·0	0	0
19	29·915	65·2	61·7	58·8	·496	5·5	1·3	81	526	SSW	0·0	0	0
20	29·908	70·3	63·1	57·6	·475	5·2	2·9	64	521	SSW	0·0	7	3
21	29·894	75·9	66·0	59·0	·500	5·4	4·3	55	515	SSW	0·0	0	3
22	29·887	77·7	68·0	61·3	·543	5·8	4·4	57	513	SSW	0·0	5	0
23	29·874	82·9	70·5	62·2	·560	5·9	6·1	50	508	SSW	1·0	2	0
Aug. 3. 0	29·884	75·9	66·0	59·0	·500	5·4	4·3	55	515	SSW	1·0	5	0
1	29·832	85·7	70·5	60·6	·529	5·6	7·5	43	505	SSW	0·0	1	0
2	29·810	86·9	70·0	59·1	·501	5·3	8·3	38	504	SSW	0·0	1	0
3	29·803	86·2	70·0	59·5	·509	5·4	7·9	40	503	SSW	0·0	0	0
4	29·778	85·3	69·2	58·6	·492	5·2	7·7	40	505	SSW	0·0	1	0
5	29·768	82·6	69·0	59·9	·516	5·5	6·4	46	507	SSW	0·0	0	0
6	29·769	80·9	68·6	60·3	·524	5·6	5·7	49	508	SSW	0·0	0	0
7	29·775	76·5	67·6	61·3	·543	5·8	4·0	60	512	SSW	0·0	1	0
8	29·779	75·4	67·0	61·0	·537	5·8	3·8	61	514	SSW	0·0	8	0
9	29·778	74·7	66·0	59·7	·512	5·5	3·8	59	515	SSW	0·0	9	0
10	29·774	70·9	64·4	59·3	·505	5·5	2·8	67	516	SSW	0·0	3	0
11	29·769	67·9	63·5	60·1	·520	5·6	1·9	76	519	SSW	0·0	0	0
Aug. 9. 12	29·829	53·0	52·8	52·6	·397	4·4	0·1	99	538	SW	0·0	0	0
13	29·841	52·9	52·7	52·5	·396	4·4	0·1	99	538	SW	0·0	0	0
14	29·851	52·7	52·5	52·3	·393	4·4	0·1	99	539	SW	0·0	0	0
15	29·859	52·0	51·9	51·8	·385	4·4	0·1	99	540	SW	0·0	0	0
16	29·876	51·8	51·8	51·8	·385	4·3	0·0	100	540	SW	0·0	0	0
17	29·887	53·0	53·0	53·0	·403	4·5	0·0	100	539	SW	0·0	0	0
18	29·899	54·2	54·2	54·2	·421	4·7	0·0	100	538	SW	0·0	0	0
19	29·917	55·2	54·6	53·9	·416	4·7	0·5	95	537	SW	0·0	0	0
20	29·920	57·6	56·3	55·2	·436	4·8	0·5	91	535	SW	0·0	0	0
21	29·939	62·2	59·5	57·1	·467	5·3	1·0	84	530	W	0·0	0	0
22	29·939	66·6	62·1	58·5	·491	5·4	1·8	75	525	NNE	0·0	0	0
23	29·949	70·4	63·0	57·3	·470	5·2	3·0	63	522	NNE	0·0	0	0
Aug. 10. 0	29·948	71·1	64·0	58·6	·492	5·4	2·9	65	521	NNE	0·0	3	0
1	29·953	70·6	62·6	56·5	·457	5·0	3·1	61	522	NNE	0·0	7	0
2	29·954	77·0	66·0	58·3	·487	5·3	4·7	53	515	NNE	0·0	5	0
3	29·951	78·1	67·0	59·3	·505	5·5	4·8	53	514	N	0·0	1	0
4	29·947	76·2	65·6	58·1	·483	5·3	4·5	53	516	NNE	0·0	3	0
5	29·941	72·5	63·5	56·7	·461	5·1	3·5	57	520	N	0·0	5	0
6	29·947	70·6	63·0	57·2	·469	5·1	3·0	63	522	N	0·0	6	0
7	29·959	67·1	60·8	55·7	·444	4·9	2·4	67	526	N	0·0	10	0
8	29·969	66·2	60·5	55·9	·447	4·9	2·1	69	527	N	0·0	10	0
9	29·986	64·7	60·6	57·2	·469	5·2	1·5	77	528	NNW	0·0	10	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
July 27. 3	10	10	..	..	Cirro-cumulus covers about half the sky ; high wind.
4	25	30	..	..	Overcast ; high wind.
5	20	20	..	..	Overcast ; high wind.
6	30	30	..	..	Cirro-cumulus here and there ; high wind.
7	80	40	..	..	Partially cloudy ; strong wind.
8	50	40	..	..	Partially cloudy.
9	50	40	..	..	Overcast.
10	30	30	..	..	Partially cloudy.
11	20	30	..	..	Cirro-stratus in several directions.
Aug. 2. 12	0	0	..	..	Cloudless.
13	0	0	..	..	Cloudless.
14	0	0	..	..	Cloudless.
15	0	0	..	..	Cloudless.
16	0	0	..	..	Cloudless.
17	0	0	..	..	Cloudless.
18	0	0	..	..	Cloudless.
19	0	0	..	..	Cloudless.
20	5	10	..	..	Cirro-cumulus in many directions.
21	0	0	..	..	Cloudless.
22	0	0	..	..	Partially cloudy ; cirro-cumulus.
23	0	0	..	..	Partially cloudy ; cirro-cumulus.
Aug. 3. 0	0	0	..	..	Partially cloudy.
1	20	30	..	..	Nearly cloudless
2	30	40	..	..	Nearly cloudless.
3	10	20	..	..	Cloudless.
4	20	30	..	..	Light clouds here and there.
5	20	30	..	..	Cloudless.
6	20	30	..	..	Cloudless.
7	20	30	..	..	Nearly cloudless.
8	10	20	..	..	Generally cloudy.
9	20	20	..	..	Generally cloudy.
10	20	30	..	..	Cirrus here and there.
11	20	30	..	..	Cloudless.
Aug. 9. 12	10	10	..	..	Cloudless ; lunar halo.
13	20	20	..	..	Cloudless.
14	20	20	..	..	Cloudless.
15	20	20	..	..	Cloudless.
16	10	10	..	..	Cloudless.
17	20	20	..	..	Cloudless ; fog.
18	80	40	..	..	Cloudless ; fog.
19	80	40	..	..	Cloudless ; fog.
20	Out of range	40	..	..	Cloudless ; fog.
21	Out of range	40	..	..	Cloudless ; slight haze.
22	Out of range	40	..	..	Cloudless ; haze.
23	60	40	..	..	Cloudless ; thin haze.
Aug. 10. 0	0	0	..	..	Cirrus here and there ; thick haze.
1	0	0	..	..	Partially cloudy ; haze.
2	10	20	..	..	Partially cloudy.
3	20	30	..	..	Nearly cloudless.
4	20	30	..	..	Generally clear ; cirrus and cirro-cumulus.
5	20	30	..	..	Generally clear ; cirrus and cirro-cumulus.
6	30	30	..	..	Partially cloudy.
7	60	40	..	..	Overcast.
8	30	20	..	..	Overcast.
9	30	30	..	..	Overcast.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Aug. 10. 10	29·992	62·9	60·4	58·4	·489	5·3	1·0	85	530	NNW	0·0	10	0
11	29·997	61·9	60·0	58·4	·489	5·4	0·8	89	531	NNW	0·0	10	0
Aug. 16. 12	29·810	59·0	58·0	57·1	·467	5·2	0·4	94	531	NNE	0·0	0	0
13	29·811	59·6	58·5	57·5	·473	5·2	0·5	93	530	NNE	0·0	10	8
14	29·810	60·4	59·0	57·8	·479	5·3	0·6	92	529	NNE	0·0	10	8
15	29·805	60·3	58·6	57·1	·467	5·2	0·6	90	530	NNE	0·0	10	9
16	29·803	58·4	57·0	55·7	·444	4·9	0·6	91	531	NNE	0·0	4	10
17	29·813	57·3	53·5	50·0	·361	4·0	1·3	76	533	NNE	0·0	5	10
18	29·826	57·2	55·2	53·4	·409	4·5	0·7	87	534	NNE	0·0	7	10
19	29·830	59·4	56·4	53·8	·415	4·6	1·0	82	531	NNE	0·0	4	10
20	29·835	60·3	56·5	53·2	·406	4·5	1·3	77	531	NNE	0·0	7	10
21	29·837	60·2	55·9	52·1	·389	4·4	1·5	75	531	N	0·0	8	10
22	29·834	64·6	58·7	53·8	·415	4·6	2·1	67	526	N	0·0	5	0
23	29·832	67·7	60·8	55·3	·437	4·8	2·6	64	523	N	0·0	7	0
Aug. 17. 0	29·834	69·3	61·4	55·3	·437	4·8	3·1	61	521	N	0·0	3	0
1	29·836	71·2	62·6	56·2	·453	4·9	3·5	59	519	N	0·0	4	0
2	29·834	72·7	63·9	57·2	·469	5·2	3·5	58	518	N	0·0	6	0
3	29·839	68·8	61·8	56·3	·454	4·9	2·8	64	521	N	0·0	10	0
4	29·846	68·2	62·4	57·8	·479	5·4	2·2	69	522	N	0·0	7	0
5	29·849	66·4	61·5	57·6	·475	5·2	1·9	74	525	NNE	0·0	8	0
6	29·862	63·7	59·8	56·4	·456	5·0	1·5	78	527	NNE	0·0	4	0
7	29·873	59·8	57·5	55·5	·441	4·8	0·9	86	531	NNE	0·0	0	0
8	29·892	57·3	55·5	53·9	·416	4·6	0·6	88	535	NNE	0·0	0	0
9	29·893	57·1	55·3	53·7	·413	4·6	0·6	88	535	NNE	0·0	0	0
10	29·905	54·9	54·0	53·1	·404	4·5	0·4	94	537	NNE	0·0	0	0
11	29·907	53·9	53·2	52·5	·396	4·5	0·2	95	538	NNE	0·0	0	0
Aug. 23. 12	29·622	64·5	63·0	61·8	·552	6·1	0·6	91	522	E	0·0	0	0
13	29·614	65·1	63·4	62·1	·558	6·1	0·7	89	521	E	0·0	10	0
14	29·604	64·6	63·0	61·7	·550	6·1	0·6	90	521	E	0·0	0	0
15	29·606	64·6	63·1	61·9	·554	6·1	0·6	91	521	E	0·0	0	0
16	29·605	64·7	63·0	61·6	·548	6·1	0·7	90	521	E	0·0	6	0
17	29·605	64·7	62·9	61·3	·543	6·0	0·7	90	521	E	0·0	7	2
18	29·604	64·8	62·7	61·0	·537	5·9	0·8	88	521	E	0·0	5	4
19	29·606	70·0	67·5	65·6	·630	6·9	1·1	85	515	E	0·0	0	6
20	29·610	74·9	69·0	64·7	·611	6·6	2·8	70	511	E	0·0	0	9
21	29·623	78·3	71·3	66·4	·648	7·0	3·4	67	508	E	0·0	0	8
22	29·635	80·3	71·9	66·2	·644	6·9	4·2	61	506	ENE	0·0	1	0
23	29·631	82·6	72·8	66·3	·646	6·9	5·0	57	504	ENE	0·0	1	0
Aug. 24. 0	29·636	82·7	72·7	66·1	·641	6·8	5·1	57	504	ENE	0·0	1	0
1	29·638	83·8	73·8	67·2	·666	7·1	5·2	57	503	ENE	0·0	0	0
2	29·639	82·0	72·5	66·1	·641	6·9	4·8	59	505	ENE	0·0	0	0
3	29·642	82·5	72·3	65·5	·628	6·7	5·1	56	504	ESE	0·0	0	0
4	29·646	80·0	71·3	65·4	·626	6·7	4·3	60	507	ESE	0·0	0	0
5	29.647	78·2	70·3	64·8	·613	6·6	3·8	64	508	ESE	0·0	2	0
6	29·663	75·9	69·0	64·1	·598	6·4	3·3	66	511	ESE	0·0	7	0
7	29·680	70·8	66·8	63·7	·590	6·5	1·8	78	516	ESE	0·0	0	0
8	29·695	69·8	66·0	63·1	·578	6·3	1·6	79	517	SE	0·0	6	0
9	29·703	68·4	65·2	62·7	·570	6·2	1·4	82	519	SE	0·0	2	0
10	29·704	66·2	64·0	62·2	·560	6·2	0·9	87	521	SE	0·0	1	0
11	29·720	65·7	63·4	61·6	·548	6·0	0·9	86	522	SE	0·0	2	0
Aug. 30. 12	29·831	56·1	55·7	55·4	·439	4·9	0·1	96	535	ENE	0·0	0	0
13	29·816	55·2	54·8	54·3	·422	4·7	0·2	97	535	ENE	0·0	0	0
14	29·812	54·8	54·4	54·0	·418	4·6	0·2	96	536	ENE	0·0	0	0
15	29·807	54·4	54·0	53·6	·412	4·6	0·2	97	536	ENE	0·0	4	0
16	29·805	54·7	54·3	53·9	·416	4·7	0.2	97	536	ENE	0·0	9	0

1857. Month, Day, and Hour.	Electrical Indications.				Clouds and Weather.
	Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	
d h	°	°			
Aug. 10. 10	20	10	..	..	Overcast ; rain frequently falls.
11	30	30	..	..	Overcast ; rain frequently falls.
Aug. 16. 12	Out of range	40	..	..	Cloudless.
13	Out of range	40	..	..	Overcast.
14	20	30	..	..	Overcast.
15	10	20	..	..	Overcast.
16	10	20	..	..	Cirrus here and there.
17	15	25	..	..	Cirro-cumulus here and there.
18	20	30	..	..	Partially cloudy.
19	30	40	..	..	Cirro-cumulus here and there.
20	20	30	..	..	Generally cloudy.
21	60	40	..	..	Generally cloudy.
22	20	20	..	..	Cumulus and cirro-cumulus here and there.
23	0	0	..	..	Cumulus and cirro-cumulus in many directions.
Aug. 17. 0	5	5	..	..	Cumulus in the S. ; elsewhere cloudless.
1	30	30	..	..	Partially cloudy.
2	20	20	..	..	Cumulus and cirro-cumulus in many directions.
3	30	30	..	..	Overcast.
4	20	20	..	..	Partially cloudy.
5	40	40	..	..	Partially cloudy.
6	60	40	..	..	Cirro-cumulus and cirrus.
7	80	40	..	..	Cloudless.
8	60	40	..	..	Cloudless.
9	Out of range	40	..	..	Cloudless.
10	Out of range	40	..	..	Cloudless.
11	Out of range	40	..	..	Cloudless.
Aug. 23. 12	60	40	..	..	Cloudless.
13	60	40	..	..	Overcast.
14	60	40	..	..	Cloudless.
15	80	40	..	..	Cloudless.
16	60	40	..	..	Partially cloudy.
17	60	40	..	..	Partially cloudy.
18	60	40	..	..	Partially cloudy ; cumulus and cirro-cumulus.
19	80	40	..	..	Cloudless.
20	80	40	..	..	Cloudless.
21	30	30	..	..	Cloudless.
22	20	20	..	..	Cirrus here and there.
23	15	20	..	..	Cirrus here and there.
Aug. 24. 0	20	20	..	..	Cirrus here and there.
1	20	20	..	..	Cloudless.
2	12	10	..	..	Cloudless.
3	20	20	..	..	Cloudless.
4	50	30	..	..	Cloudless.
5	80	40	..	..	Cirrus here and there.
6	60	30	..	..	Stratus, cirrus, and cirro-stratus.
7	30	30	..	..	Cirrus and cirro-stratus in the horizon.
8	25	30	..	..	Cirro-cumulus, cirro-stratus, and cirrus.
9	10	10	..	..	Partially cloudy.
10	30	40	..	..	Partially cloudy.
11	10	20	..	..	Partially cloudy.
Aug. 30. 12	5	5	..	..	Cloudless.
13	5	5	..	..	Cloudless.
14	5	5	..	..	Cloudless.
15	5	5	..	..	Cirro-cumulus here and there.
16	0	0	..	..	Generally overcast.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Aug. 30. 17	29·809	54·4	54·2	54·0	·418	4·7	0·1	99	536	ENE	0·0	8	0
18	29·815	54·1	54·0	53·9	·416	4·7	0·1	99	537	ENE	0·0	6	0
19	29·823	58·0	56·5	55·2	·436	4·8	0·5	90	532	ENE	0·0	5	0
20	29·821	63·5	60·2	57·5	·473	5·2	1·3	79	527	ENE	0·0	4	0
21	29·816	70·9	64·2	59·2	·503	5·4	2·9	66	519	N E	0·0	1	0
22	29·812	72·9	64·7	58·7	·494	5·3	3·4	60	517	NNE	0·0	4	0
23	29·814	80·9	68·5	60·2	·522	5·6	5·7	49	509	NNE	0·0	7	0
Aug. 31. 0	29·808	80·9	68·2	60·2	·522	5·5	5·8	48	509	NNE	0·0	4	0
1	29·796	84·0	69·5	60·0	·518	5·5	6·9	44	506	NNE	0·0	7	0
2	29·800	80·9	68·0	59·3	·505	5·4	5·9	47	509	NNE	0·0	10	0
3	29·802	70·3	64·2	59·6	·511	5·5	2·6	69	519	W	0·0	10	1
4	29·820	68·6	65·0	62·1	·558	6·1	1·6	80	521	W	0·0	10	2
5	29·809	68·0	64·0	60·8	·533	5·8	1·7	78	521	NW	0·0	10	2
6	29·801	67·6	63·6	60·5	·528	5·7	1·7	78	522	WSW	0·0	8	2
7	29·810	66·4	62·6	59·6	·511	5·6	1·5	79	523	WSW	0·0	10	2
8	29·819	66·6	62·1	58·5	·491	5·4	1·8	75	523	WSW	0·0	10	2
9	29·837	64·7	61·6	59·0	·500	5·5	1·2	81	526	WSW	0·0	8	2
10	29·825	62·2	60·5	59·1	·501	5·5	0·7	90	528	WSW	0·0	2	2
11	29·836	61·1	60·0	59·0	·500	5·6	0·4	93	529	WSW	0·0	6	2
Sept. 6. 12	29·755	56·2	55·0	53·9	·416	4·7	0·4	92	533	S	0·0	0	3
13	29·748	55·9	55·2	54·6	·427	4·9	0·1	95	533	SW	0·0	0	3
14	29·744	55·8	55·0	54·3	·422	4·8	0·2	94	533	SW	0·0	0	3
15	29·743	54·0	54·0	54·0	·418	4·7	0·0	100	535	S	0·0	0	4
16	29·741	52·1	52·1	52·1	·389	4·4	0·0	100	537	S	0·0	0	4
17	29·745	53·2	53·2	53·2	·406	4·5	0·0	100	536	S	0·0	0	5
18	29·753	55·0	55·0	55·0	·433	4·9	0·0	100	534	SW	0·0	10	8
19	29·750	55·6	55·5	55·4	·439	5·0	0·1	99	532	SW	0·0	10	10
20	29·791	59·3	58·0	56·9	·464	5·1	0·5	92	530	WSW	0·0	10	10
21	29·760	63·8	61·3	59·2	·503	5·5	1·0	86	525	WSW	0·0	4	10
22	29·756	65·9	61·9	58·6	·492	5·5	1·5	78	523	WSW	0·0	10	0
23	29·750	68·0	62·5	58·2	·485	5·4	2·1	70	521	WSW	0·0	10	0
Sept. 7. 0	29·741	69·5	68·3	67·3	·668	7·3	0·6	93	518	WSW	0·0	6	2
1	29·731	72·5	65·4	60·0	·518	5·6	3·0	65	516	WSW	0·0	8	2
2	29·717	70·2	63·8	58·9	·498	5·4	2·7	67	518	WSW	0·0	5	3
3	29·711	70·4	63·5	58·2	·485	5·3	2·8	65	518	WSW	0·0	8	4
4	29·706	68·3	62·5	58·0	·482	5·4	2·2	69	520	WSW	0·0	9	5
5	29·706	65·6	61·5	58·1	·483	5·4	1·5	77	522	SSW	0·0	7	6
6	29·702	63·0	60·0	57·5	·473	5·2	1·2	82	525	SSW	0·0	7	6
7	29·697	60·6	58·2	56·1	·451	5·1	0·9	86	528	SSW	0·0	10	5
8	29·694	59·5	57·7	56·1	·451	5·0	0·7	89	529	SSW	0·0	7	7
9	29·692	58·5	57·2	56·0	·449	5·0	0·5	91	529	SSE	0·0	6	7
10	29·662	56·8	56·0	55·3	·437	5·2	0·3	94	531	SSE	0·0	10	0
11	29·647	57·6	56·2	55·0	·433	4·7	0·6	91	530	SE	0·0	9	0
Sept. 13. 12	29·859	55·9	55·0	54·2	·421	4·8	0·2	94	535	WSW	0·0	0	4
13	29·857	53·9	53 9	53·9	·416	4·7	0·0	100	538	WSW	0·0	0	5
14	29·863	55·4	54·2	53·0	·403	4·5	0·4	92	536	WSW	0·0	10	5
15	29·862	56·3	55·5	54·8	·430	4·8	0·3	94	535	WSW	0·0	10	6
16	29·865	56·4	55·5	54·7	.428	4·8	0·3	94	535	WSW	0·0	10	8
17	29·866	56·5	56·0	55·5	·441	4·9	0·2	96	535	WSW	0·0	10	9
18	29·875	56·5	56·0	55·5	·441	4·9	0·2	96	535	WSW	0·0	10	9
19	29·875	57·8	57·0	56·3	·454	5·0	0·3	95	533	SSW	0·0	10	10
20	29·887	59·1	58·0	57·0	·465	5·2	0·4	93	532	SSW	0·0	10	10
21	29·908	61·6	60·2	59·0	·500	5·6	0·5	91	530	SW	0·0	10	10
22	29·912	60·5	59·1	57·9	.480	5·3	0·6	92	531	SSE	0·0	10	2
23	29·910	61·2	59·5	58·1	·483	5·3	0·7	90	530	SSE	0·0	10	4

1857. Month, Day, and Hour.	Electrical Indications.				Clouds and Weather.
	Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	
d h	°	°			
Aug. 30. 17	0	0	..	..	Generally overcast.
18	0	0	..	..	Light cirrus and cirro-stratus in many directions.
19	12	10	..	..	Light cirrus and cirro-stratus in many directions.
20	40	40	..	..	Light cirrus and cirro-stratus in many directions.
21	80	40	..	..	Generally cloudless.
22	80	40	..	..	Cirro-cumulus and cirro-stratus here and there.
23	60	40	..	..	Partially cloudy.
Aug. 31. 0	60	40	..	..	Partially cloudy ; cirro-cumulus.
1	60	40	..	..	Partially cloudy.
2	50	40	..	..	Overcast.
3	Out of range	40 ; 40—	5° to A	Volley at 0·02	Overcast ; rain falls.
4	Out of range	40—	5° to A	Volley at 0·03	Overcast ; rain falling.
5	60	40	..	..	Overcast.
6	60	40	..	..	Generally overcast.
7	Out of range	40	..	..	Overcast.
8	Out of range	40	..	..	Overcast.
9	80	40	..	..	Generally overcast.
10	80	40	..	..	Generally clear.
11	60	40	..	..	Cirrus in many directions.
Sept. 6. 12	..	..	..	..	Cloudless.
13	..	..	..	..	Cloudless.
14	..	..	..	..	Cloudless.
15	..	..	..	..	Cloudless.
16	..	..	..	..	Cloudless.
17	..	..	..	..	Cloudless ; fog.
18	..	..	..	..	Overcast.
19	..	..	..	..	Overcast.
20	..	..	..	..	Overcast.
21	..	..	..	..	Cirrus and cirro-cumulus here and there.
22	..	..	..	..	Overcast.
23	..	..	..	..	Overcast.
Sept. 7. 0	..	..	..	..	Cumulus and cirro-cumulus in many directions.
1	0	0	..	..	Generally overcast.
2	0	0	..	..	Partially cloudy.
3	0	0	..	..	Generally overcast ; cirro-cumulus.
4	0	0	..	..	Generally overcast ; dense cirro-cumulus and cumulus.
5	0	0	..	..	Stratus and cirro-stratus.
6	0	0	..	..	Stratus and cirro-stratus.
7	0	0	..	..	Overcast.
8	10	10	..	..	Partially cloudy.
9	20	20	..	..	Partially cloudy.
10	30	30	..	..	Overcast.
11	20	20	..	..	Generally overcast.
Sept. 13. 12	..	..	..	..	Cloudless.
13	..	..	..	..	Cloudless.
14	..	..	..	..	Overcast.
15	..	..	..	..	Overcast.
16	..	..	..	..	Overcast.
17	..	..	..	..	Overcast ; rain falling.
18	..	..	..	..	Overcast ; rain still continues.
19	..	..	..	..	Overcast.
20	..	..	..	..	Overcast ; slight rain.
21	..	..	..	..	Overcast ; thin rain falling.
22	..	..	..	..	Overcast ; thin rain falling.
23	..	..	..	..	Overcast ; thin rain falling.

September 6 and 13. The insulating lamp on the Electrometer pole was not burning.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Sept. 14. 0	29·919	63·4	61·8	60·4	·526	5·8	0·7	91	528	SSE	0·0	10	6
1	29·913	63·4	62·2	61·1	·539	6·0	0·6	93	528	SSE	0·0	10	6
2	29·915	63·5	62·5	61·8	·552	6·1	0·4	94	528	SSE	0·0	10	5
3	29·918	64·9	63·4	62·3	·562	6·2	0·6	90	526	SSE	0·0	10	6
4	29·924	65·3	63·5	62·2	·560	6·1	0·7	89	526	SSE	0·0	10	6
5	29·934	64·5	63·2	62·2	·560	6·2	0·5	92	527	SSE	0·0	10	6
6	29·937	62·7	61·8	60·9	·535	6·0	0·4	95	529	SSE	0·0	10	6
7	29·957	60·5	60·4	60·3	·524	5·9	0·1	99	532	SSE	0·0	9	6
8	29·969	60·3	60·0	59·8	·514	5·7	0·1	98	532	SSE	0·0	4	8
9	29·978	59·6	59·4	59·3	·505	5·6	0·1	99	533	SSE	0·0	0	8
10	29·986	58·8	58·5	58·3	·487	5·4	0·1	99	534	SSE	0·0	2	0
11	29·993	58·2	58·0	57·8	·479	5·4	0·1	99	535	SSE	0·0	0	0
Sept. 27. 12	29·693	58·3	57·0	55·8	·446	4·9	0·5	91	530	SSW	0·0	0	8
13	29·695	57·3	57·0	56·7	·461	4·7	0·5	91	531	S	0·0	0	8
14	29·686	56·8	56·8	56·8	·462	5·1	0·0	100	530	S	0·0	10	9
15	29·684	56·3	56·3	56·3	·454	5·0	0·0	100	531	S	0·0	10	9
16	29·680	56·8	56·8	56·8	·462	5·1	0·0	100	530	S	0·0	10	10
17	29·675	57·8	57·8	57·8	·479	5·4	0·0	100	529	S	0·0	10	10
18	29·672	59·5	59·0	58·6	·492	5·5	0·2	97	528	SSW	0·0	10	10
19	29·676	58·2	57·5	56·9	·464	5·1	0·3	95	530	WNW	0·0	10	10
20	29·682	58·1	57·5	57·0	·465	5·1	0·3	95	530	WSW	0·0	10	10
21	29·706	58·4	57·8	57·3	·470	5·1	0·3	95	530	WSW	0·0	10	0
22	29·698	58·8	58·2	57·7	·477	5·3	0·2	97	529	WSW	0·0	10	0
23	29·698	60·7	59·7	58·8	·496	5·5	0·5	94	527	WNW	0·0	10	0
Sept. 28. 0	29·707	60·1	59·1	58·2	·485	5·4	0·4	94	528	W	0·0	10	0
1	29·696	60·7	58·7	56·9	·464	5·3	0·7	88	528	W	0·0	10	0
2	29·704	60·7	58·7	56·9	·464	5·3	0·7	88	528	W	0·0	10	0
3	29·703	61·3	59·3	57·6	·474	5·2	0·8	88	526	W	0·0	10	0
4	29·728	60·7	58·6	56·7	·461	5·2	0·7	87	528	W	0·0	10	0
5	29·737	60·7	58·5	56·5	·457	5·2	0·8	87	528	WSW	0·0	8	0
6	29·752	60·4	58·2	56·2	·453	5·1	0·8	87	529	WNW	0·0	0	0
7	29·768	54·8	54·1	53·4	·409	4·6	0·3	95	535	W	0·0	0	0
8	29·791	53·1	52·8	52·5	·396	4·4	0·1	98	537	W	0·0	0	0
9	29·800	52·5	52·2	51·9	·386	4·4	0·1	98	538	W	0·0	0	0
10	29·812	50·4	50·3	50·2	·364	4·1	0·1	99	541	SW	0·0	0	0
11	29·826	50·0	50·0	50·0	·361	4·1	0·0	100	541	SW	0·0	0	0
Oct. 4. 12	29·507	48·4	47·8	47·1	·324	3·6	0·3	96	538	NNW	0·0	10	0
13	29·518	48·5	47·9	47·2	·325	3·6	0·3	96	538	NNW	0·0	10	0
14	29·508	48·0	47·5	46·9	·322	3·6	0·2	96	538	NNW	0·0	10	0
15	29·497	46·2	46·0	45·8	·308	3·6	0·1	99	540	NNW	0·0	10	0
16	29·507	44·6	44·6	44·6	·295	3·4	0·1	100	542	W	0·0	10	0
17	29·511	43·4	43·4	43·4	·281	3·3	0·0	100	543	W	0·0	10	0
18	29·511	42·6	42·6	42·6	·273	3·2	0·0	100	544	W	0·0	10	0
19	29·520	42·8	42·8	42·8	·275	3·3	0·0	100	544	W	0·0	9	0
20	29·537	43·3	43·3	43·3	·280	3·3	0·0	100	544	W	0·0	10	0
21	29·546	44·4	44·4	44·4	·293	3·4	0·0	100	543	WSW	0·0	0	0
22	29·542	51·6	49·3	47·0	·323	3·6	0·7	84	535	WSW	0·0	0	0
23	29·551	56·1	52·4	48·9	·346	3·9	1·1	77	530	WSW	0·0	0	0
Oct. 5. 0	29·548	58·5	52·0	46·2	·313	3·5	1·9	64	528	WSW	0·0	3	0
1	29·545	59·6	53·0	47·2	·325	3·6	2·1	64	526	WSW	0·0	5	0
2	29·539	58·2	52·7	47·8	·333	3·8	1·6	69	528	WSW	0·0	2	0
3	29·541	58·2	53·6	49·5	·355	3·9	1·5	68	528	WSW	0·0	1	0
4	29·548	54·5	51·2	48·1	·336	3·8	1·5	78	532	WSW	0·0	8	0
5	29·546	51·0	49·3	47·5	·329	3·7	0·5	88	535	WSW	0·0	1	0
6	29·558	49·9	48·2	46·4	·316	3·6	0·5	88	537	WSW	0·0	0	0
7	29·576	48·5	47·0	45·4	·304	3·3	0·5	89	539	WSW	0·0	0	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Sept. 14. 0	..	..	..	..	Overcast; thin rain falling.
1	..	..	..	..	Overcast; thin rain falling.
2	..	..	..	..	Overcast; thin rain falling.
3	..	..	..	..	Clear sky here and there; otherwise overcast.
4	..	..	..	..	Overcast; thin rain falling.
5	..	..	..	..	Overcast; thin rain.
6	..	..	..	..	Overcast; thin rain falling.
7	..	..	..	..	Nimbus in the N.W.; elsewhere stratus and cirro-stratus.
8	..	..	..	..	Partially cloudy.
9	..	..	..	..	Cloudless.
10	..	..	..	..	Clouds in the N.; cloudless elsewhere.
11	..	..	..	..	Cloudless.
Sept. 27. 12	5	5	..	..	Cloudless.
13	0	0	..	..	Cloudless.
14	0	0	..	..	Overcast.
15	0	0	..	..	Overcast.
16	0	0	..	..	Overcast.
17	0	0	..	..	Overcast; thin rain.
18	10	10	..	..	Overcast; rain falling.
19	20	20	..	..	Overcast; rain falling.
20	Out of range	40	..	..	Overcast; rain falling.
21	10	10	..	..	Overcast; rain falling.
22	0	0	..	..	Overcast; rain falling.
23	0	0	..	..	Overcast; rain falling.
Sept. 28. 0	0	0	..	..	Overcast; rain falling.
1	5	5	..	..	Overcast.
2	40	40	..	..	Overcast.
3	Out of range	40	..	..	Overcast.
4	Out of range	40	..	..	Overcast.
5	Out of range	40	..	..	Generally cloudy; clear in the S. and S.W.
6	Out of range	40	..	..	Cloudless; fog.
7	40	40	..	..	Cloudless; fog.
8	Out of range	40	2° to B	..	Cloudless; fog.
9	Out of range	40	2° to B	..	Cloudless; fog.
10	Out of range	40	3° to B	..	Cloudless; fog.
11	Out of range	40	..	..	Cloudless; fog.
Oct. 4. 12	5	5	..	..	Overcast.
13	5	5	..	..	Overcast.
14	10	10	..	..	Overcast.
15	10	10	..	..	Overcast; lunar halo.
16	0	0	..	..	Overcast; lunar corona.
17	0	0	..	..	Overcast; lunar corona.
18	0	0	..	..	Overcast.
19	10	10	..	..	Clear in the S.W.; otherwise overcast.
20	Out of range	40	..	..	Overcast; fog and haze.
21	Out of range	40	..	..	Cloudless; fog and haze.
22	40	40	..	..	Cloudless; fog and haze.
23	80	40	..	..	Cloudless; fog and haze.
Oct. 5. 0	30	30	..	..	Cirrus and stratus here and there.
1	60	40	..	..	Cirro-cumulus cover about half the sky.
2	20	20	..	..	Generally cloudy.
3	80	40	..	..	Generally cloudy.
4	Out of range	40; 40—	20° to A	2 in 1^{s}; 0·05	Generally overcast.
5	Out of range	40	..	..	Generally cloudless.
6	Out of range	40	..	..	Cloudless.
7	Out of range	40	..	..	Cloudless.

September 14. The insulating lamp on the Electrometer pole was not burning.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Oct. 5. 8	29·571	47·3	46·0	44·6	·295	3·3	0·4	91	540	WSW	0·0	0	0
9	29·567	47·1	45·8	44·5	·294	3·4	0·3	91	540	WSW	0·0	4	0
10	29·560	48·2	45·5	42·5	·272	3·1	0·8	81	540	WSW	0·0	4	0
11	29·554	47·5	46·0	44·4	·293	3·3	0·5	89	539	WSW	0·0	3	0
Oct. 11. 12	29·941	55·6	55·5	55·4	·439	5·0	0·1	99	537	WSW	0·0	10	0
13	29·949	55·5	55·5	55·5	·441	5·1	0·0	100	537	WSW	0·0	10	0
14	29·952	55·5	55·5	55·5	·441	5·1	0·0	100	537	WSW	0·0	10	0
15	29·955	55·7	55·5	55·4	·439	5·0	0·1	99	537	WSW	0·0	10	0
16	29·960	55·8	55·5	55·3	·437	5·0	0·1	98	537	WSW	0·0	10	0
17	29·961	55·4	55·3	55·2	·436	5·0	0·1	99	537	WSW	0·0	10	0
18	29·969	55·7	55·5	55·4	·439	5·0	0·1	99	537	WSW	0·0	10	0
19	29·990	56·0	55·5	55·0	·433	4·9	0·2	97	537	WSW	0·0	9	0
20	29·993	57·3	56·7	56·3	·454	5·0	0·3	96	536	WSW	0·0	9	0
21	30·002	61·7	59·4	57·5	·473	5·2	1·0	86	530	WSW	0·0	10	0
22	30·003	63·9	61·2	59·0	·500	5·5	1·1	85	529	SW	0·0	10	0
23	30·020	65·0	61·8	59·1	·501	5·5	1·2	82	528	SW	0·0	9	0
Oct. 12. 0	30·015	64·8	61·2	58·3	·487	5·3	1·5	79	528	SSW	0·0	10	3
1	30·015	63·9	60·7	58·1	·483	5·3	1·3	81	529	SSW	0·0	10	3
2	30·017	63·2	60·7	58·6	·492	5·4	1·0	85	530	SSW	0·0	10	4
3	30·018	62·4	60·3	58·6	·492	5·4	0·9	87	531	SSW	0·0	10	4
4	30·023	62·4	60·5	59·0	·500	5·5	0·8	89	531	SSW	0·0	10	2
5	30·029	61·4	59·6	58·1	·483	5·3	0·8	89	532	SSW	0·0	10	1
6	30·039	60·2	59·0	57·9	·480	5·4	0·5	93	533	SSW	0·0	9	0
7	30·041	58·0	57·3	55·8	·446	5·1	0·3	95	536	SSW	0·0	0	0
8	30·048	56·8	56·2	55·7	·444	4·9	0·3	96	537	SSW	0·0	0	0
9	30·058	56·4	56·0	55·6	·443	4·9	0·2	97	538	SSW	0·0	0	0
10	30·058	55·2	55·0	54·8	·430	4·9	0·1	99	540	SSW	0·0	0	0
11	30·053	55·0	54·7	54·3	·422	4·7	0·2	99	540	SSW	0·0	0	0
Oct. 18. 12	29·330	52·6	52·3	52·0	·388	4·4	0·1	98	529	SE	0·0	0	5
13	29·333	51·9	51·7	51·5	·381	4·3	0·1	99	530	SE	0·0	0	6
14	29·334	51·8	51·6	51·4	·379	4·3	0·1	99	530	SE	0·0	0	6
15	29·342	51·8	51·6	51·4	·379	4·3	0·1	99	530	SE	0·0	0	6
16	29·359	52·5	52·2	51·9	·386	4·4	0·1	98	530	SE	0·0	10	7
17	29·372	52·8	52·5	52·2	·391	4·4	0·1	98	530	SE	0·0	10	7
18	29·391	53·1	52·8	52·5	·396	4·4	0·1	98	530	SE	0·0	10	7
19	29·409	52·9	52·7	52·5	·396	4·4	0·1	99	530	ESE	0·0	10	8
20	29·438	53·4	53·2	53·0	·403	4·5	0·1	99	530	ESE	0·0	10	8
21	29·443	54·2	54·0	53·8	·415	4·7	0·1	99	530	ESE	0·0	10	6
22	29·458	55·8	55·5	55·3	·437	5·0	0·1	98	528	ESE	0·0	10	0
23	29·474	57·6	56·5	55·6	·443	4·9	0·5	92	527	ESE	0·0	10	0
Oct. 19. 0	29·471	60·7	58·8	57·0	·465	5·3	0·7	89	523	ESE	0·0	7	0
1	29·479	60·7	58·5	56·5	·457	5·4	0·5	93	523	ESE	0·0	8	0
2	29·491	60·7	57·5	54·8	·430	4·8	1·2	81	524	ESE	0·0	8	0
3	29·498	59·1	56·9	54·9	·431	4·9	0·8	87	526	ESE	0·0	6	0
4	29·537	59·3	56·8	54·8	·430	4·8	1·1	85	526	ESE	0·0	6	1
5	29·552	56·3	55·3	54·4	·424	4·7	0·3	93	529	ESE	0·0	4	2
6	29·583	52·9	52·0	51·1	·375	4·2	0·3	94	534	ESE	0·0	2	2
7	29·602	51·2	50·5	49·9	·360	4·0	0·4	95	536	ESE	0·0	0	2
8	29·627	50·1	49·7	49·2	·351	4·0	0·1	97	538	ESE	0·0	0	2
9	29·630	50·8	50·5	50·2	·364	4·1	0·1	98	537	ESE	0·0	10	2
10	29·641	50·5	50·5	50·5	·367	4·1	0·0	100	537	ESE	0·0	10	2
11	29·651	49·5	49·5	49·5	·355	4·0	0·0	100	539	ESE	0·0	0	2
Oct. 25. 12	29·752	48·0	48·0	48·0	·335	3·8	0·0	100	542	ESE	0·0	0	0
13	29·752	48·2	48·2	48·2	·338	3·8	0·0	100	542	ESE	0·0	0	0
14	29·749	48·0	48·0	48·0	·335	3·8	0·0	100	542	E	0·0	0	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Oct. 5. 8	Out of range	40	..	..	Cloudless ; slight haze.
9	Out of range	40	..	..	Cirrus here and there.
10	80	40	..	..	Cirrus and stratus here and there.
11	80	40	..	..	Cirrus and stratus here and there.
Oct. 11. 12	60	40	..	..	Overcast; a very dense atmosphere.
13	60	40	..	..	Overcast; a very dense atmosphere.
14	80	40	..	..	Overcast; a very dense atmosphere.
15	60	40	..	..	Overcast; a very dense atmosphere.
16	60	40	..	..	Overcast; a very dense atmosphere.
17	80	40	..	..	Overcast; a very dense atmosphere; rain falling.
18	80	40	..	..	Overcast; a very dense atmosphere; rain falling.
19	80	40	..	..	Generally overcast.
20	80	40	..	..	Generally overcast.
21	20	20	..	..	Overcast.
22	30	30	..	..	Overcast.
23	30	30	..	..	Generally overcast.
Oct. 12. 0	30	30	..	..	Overcast.
1	20	20	..	..	Overcast.
2	40	40	..	..	Overcast.
3	20	20	..	..	Overcast.
4	60	40	..	..	Overcast.
5	Out of range	40	..	..	Overcast.
6	80	40	..	..	Generally overcast; cirro-cumulus and cirro-stratus.
7	Out of range	40	..	..	Cloudless.
8	Out of range	40	..	..	Cloudless.
9	80	40	..	..	Cloudless.
10	80	40	..	..	Cloudless.
11	Out of range	40	..	..	Cloudless.
Oct. 18. 12	0	0	..	..	Cloudless.
13	0	0	..	..	Cloudless.
14	0	0	..	..	Cloudless.
15	0	0	..	..	Cloudless.
16	0	0	..	..	Overcast.
17	0	0	..	..	Overcast.
18	0	0	..	..	Overcast; rain falls occasionally.
19	0	0	..	..	Overcast; rain falling.
20	0	0	..	..	Overcast; heavy rain falling.
21	0	0	..	..	Overcast; heavy rain falling.
22	0	0	..	..	Overcast; rain falls occasionally.
23	0	0	..	..	Overcast; thin rain falling.
Oct. 19. 0	0	0	..	..	Partially cloudy.
1	0	0	..	..	Generally cloudy.
2	0	0	..	..	Cumulus and cirro-cumulus in many directions.
3	30	30	..	..	Partially cloudy.
4	60	40	..	..	Partially cloudy.
5	80	40	..	..	Partially cloudy.
6	60	40	..	..	Generally clear.
7	80	40	..	..	Cloudless.
8	80	40	..	..	Cloudless.
9	80	40	..	..	Overcast ; fog and haze.
10	80	40	..	..	Overcast.
11	80	40	..	..	Cloudless.
Oct. 25. 12	..	..	..	..	Cloudless.
13	..	..	..	..	Cloudless.
14	..	..	..	..	Cloudless.

October 25. The insulating lamp on the Electrometer pole was not burning.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Oct. 25. 15	29·748	48·0	48·0	48·0	·335	3·8	0·0	100	542	ENE	0·0	10	0
16	29·748	47·0	47·0	47·0	·323	3·7	0·0	100	543	ENE	0·0	10	0
17	29·749	46·2	46·2	46·2	·313	3·6	0·0	100	544	ENE	0·0	10	0
18	29·737	46·7	46·7	46·7	·319	3·6	0·0	100	544	ENE	0·0	10	0
19	29·722	47·0	47·0	47·0	·323	3·7	0·0	100	543	ENE	0·0	10	0
20	29·718	48·5	48·5	48·5	·342	3·8	0·0	100	541	S	0·0	10	0
21	29·719	52·1	52·1	52·1	·389	4·4	0·0	100	537	S	0·0	1	0
22	29·716	57·0	55·3	53·8	·415	4·6	0·6	85	532	S	0·0	3	0
23	29·704	60·0	56·8	54·0	·418	4·6	1·2	80	528	SE	0·0	1	0
Oct. 26. 0	29·698	62·0	56·7	52·1	·389	4·2	2·0	71	527	SE	0·0	3	0
1	29·675	60·0	55·3	51·2	·377	4·2	1·6	73	528	SSE	0·0	4	3
2	29·668	61·2	56·2	51·0	·374	4·3	1·7	72	527	SSE	0·0	6	4
3	29·668	57·6	53·5	49·8	·358	3·9	1·4	75	531	ESE	0·0	1	4
4	29·660	55·4	53·2	51·1	·375	4·2	0·7	86	533	ESE	0·0	4	4
5	29·656	52·9	52·0	51·1	·375	4·2	0·3	94	535	ESE	0·0	0	4
6	29·654	51·1	50·7	50·4	·366	4·1	0·1	97	537	ESE	0·0	1	4
7	29·652	50·3	50·1	49·9	·360	4·1	0·1	99	538	ESE	0·0	1	5
8	29·649	50·5	50·3	50·1	·362	4·1	0·1	99	538	ESE	0·0	10	3
9	29·648	49·5	49·5	49·5	·355	4·0	0·0	100	539	ESE	0·0	6	3
10	29·642	49·7	49·7	49·7	·357	4·0	0·0	100	539	ESE	0·0	10	3
11	29·627	48·5	48·5	48·5	·342	3·9	0·0	100	540	ESE	0·0	3	3
Nov. 1. 12	29·601	47·0	46·6	46·2	·313	3·3	0·5	97	541	SE	0·0	8	3
13	29·589	48·5	47·8	47·0	·323	3·6	0·3	95	539	SE	0·0	10	4
14	29·575	49·5	49·0	48·5	·342	3·9	0·2	96	537	SE	0·0	10	4
15	29·557	50·2	49·6	48·9	·346	3·9	0·2	96	536	SE	0·0	10	4
16	29·556	51·3	50·8	50·4	·366	4·1	0·1	97	535	SE	0·0	10	5
17	29·551	51·3	50·8	50·4	·366	4·1	0·1	97	535	SE	0·0	10	6
18	29·563	51·9	51·4	50·9	·373	4·2	0·2	97	534	SE	0·0	10	7
19	29·556	52·5	52·0	51·5	·381	4·3	0·2	96	534	SE	0·0	10	8
20	29·561	53·3	52·7	52·1	·389	4·4	0·2	96	533	SE	0·0	10	8
21	29·562	53·4	53·0	52·6	·397	4·5	0·1	97	535	SE	0·0	10	10
22	29·559	55·7	54·5	53·4	·409	4·6	0·4	92	530	SE	0·0	10	0
23	29·555	56·6	55·5	54·6	·427	4·7	0·4	92	529	S	0·0	10	0
Nov. 2. 0	29·538	57·8	55·5	53·5	·410	4·6	0·8	85	528	S	0·0	10	0
1	29·546	57·8	55·5	53·5	·410	4·6	0·8	85	528	S	0·0	10	0
2	29·543	58·3	56·0	53·9	·416	4·6	0·8	85	527	S	0·0	10	0
3	29·534	57·0	55·5	54·2	·421	4·7	0·5	90	528	S	0·0	10	0
4	29·547	56·4	55·0	53·7	·413	4·6	0·5	91	529	S	0·0	10	0
5	29·543	55·8	54·5	53·3	·407	4·6	0·4	91	530	S	0·0	10	0
6	29·567	55·5	54·6	53·7	·413	4·6	0·3	94	531	S	0·0	10	0
7	29·564	55·5	54·6	53·7	·413	4·6	0·3	94	531	S	0·0	10	0
8	29·563	56·1	55·2	54·4	·424	4·7	0·3	93	530	SSE	0·0	10	0
9	29·561	55·9	55·2	54·6	·427	4·9	0·1	95	528	SSE	0·0	7	0
10	29·561	56·5	55·5	54·6	·427	4·8	0·4	93	529	SSE	0·0	10	0
11	29·563	55·7	55·0	54·4	·424	4·8	0·1	95	530	SSE	0·0	10	0
Nov. 8. 12	30·205	49·0	49·0	49·0	·348	4·0	0·0	100	549	NNW	0·0	10	0
13	30·202	49·0	49·0	49·0	·348	4·0	0·0	100	549	NNW	0·0	10	0
14	30·200	49·0	49·0	49·0	·348	4·0	0·0	100	549	NNW	0·0	10	0
15	30·199	49·0	49·0	49·0	·348	4·0	0·0	100	549	NNW	0·0	10	0
16	30·195	49·5	49·0	48·5	·342	3·9	0·2	96	549	NNW	0·0	10	0
17	30·192	50·0	49·5	49·0	·348	4·0	0·1	97	548	NNW	0·0	10	0
18	30·191	50·5	50·5	50·5	·367	4·1	0·0	100	547	NNW	0·0	10	0
19	30·191	50·5	50·5	50·5	·367	4·1	0·0	100	547	NNW	0·0	10	0
20	30·201	51·0	51·0	51·0	·374	4·2	0·0	100	547	NNE	0·0	10	0
21	30·213	50·7	50·7	50·7	·370	4·2	0·0	100	548	NNE	0·0	10	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Oct. 25. 15	..	..	..	..	Thick fog.
16	..	..	..	..	Thick fog.
17	..	..	..	..	Thick fog.
18	..	..	..	..	Thick fog.
19	..	..	..	..	Thick fog.
20	..	..	..	..	Thick fog.
21	..	..	..	..	Generally clear; the fog has cleared off.
22	..	..	..	..	Cirrus and cirro-cumulus.
23	..	..	..	..	Cirrus and cirro-cumulus.
Oct. 26. 0	..	..	..	..	Cirrus and cirro-cumulus.
1	..	..	..	..	Cirrus and cirro-cumulus.
2	..	..	..	..	Cirrus and cirro-cumulus.
3	..	..	..	..	Cirro-stratus and cirro-cumulus near the horizon.
4	..	..	..	..	Cirro-cumulus and cirro-stratus all over the sky.
5	..	..	..	..	Cloudless.
6	..	..	..	..	Cirrus and cirro-stratus in the S.
7	..	..	..	..	Cirrus and cirro-stratus in the S.W. and E.
8	..	..	..	..	Overcast.
9	..	..	..	..	Partially cloudy.
10	..	..	..	..	Overcast; rain falls occasionally.
11	..	..	..	..	Stratus in the S.W.
Nov. 1. 12	30	30	..	..	Generally overcast; cirrus and cirro-cumulus.
13	10	10	..	..	Overcast.
14	10	10	..	..	Overcast.
15	10	10	..	..	Overcast.
16	0	0	..	..	Overcast; rain falling.
17	5	5	..	..	Overcast; rain falling.
18	5	5	..	..	Overcast.
19	10	10	..	..	Overcast.
20	10	10	..	..	Overcast.
21	20	20	..	..	Overcast; rain falling.
22	20	20	..	..	Overcast.
23	30	30	..	..	Overcast.
Nov. 2. 0	30	30	..	..	Overcast.
1	30	30	..	..	Overcast.
2	80	40	..	..	Overcast.
3	80	40	..	..	Overcast.
4	60	40	..	..	Overcast.
5	80	40	..	..	Overcast.
6	80	40	..	..	Overcast.
7	Out of range	40	..	..	Overcast.
8	Out of range	40	..	..	Overcast.
9	Out of range	40	..	..	Generally cloudy.
10	80	40	..	..	Overcast.
11	80	40	..	..	Overcast.
Nov. 8. 12	0	0	..	..	Overcast; fog.
13	0	0	..	..	Overcast; fog.
14	0	0	..	..	Overcast; fog.
15	0	0	..	..	Overcast; fog.
16	0	0	..	..	Overcast; fog.
17	0	0	..	..	Overcast; the fog is thicker.
18	0	0	..	..	Overcast; the fog is still thicker.
19	0	0	..	..	Overcast; objects are not visible at the distance of a few yards.
20	30	30	..	..	Overcast; very thick fog.
21	20	20	..	..	Overcast; thick fog.

October 25 and 26. The insulating lamp was not burning.

1857. Month, Day, and Hour.		Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
		Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d	h	in.	°	°	°	in.	gr.	gr		gr.		lbs.		
Nov. 8.	22	30·220	51·1	50·0	48·9	·346	3·9	0·3	92	547	NNE	0·0	10	0
	23	30·222	51·2	50·9	50·7	·370	4·2	0·1	98	547	NNE	0·0	10	0
Nov. 9.	0	30·212	52·0	50·5	49·0	·348	4·0	0·4	89	546	NE	0·0	10	0
	1	30·208	52·1	51·4	50·7	·370	4·2	0·2	95	546	NE	0·0	10	0
	2	30·209	51·7	50·8	50·2	·364	4·1	0·3	94	547	NE	0·0	10	0
	3	30·211	51·4	50·5	49·6	·357	4·0	0·3	94	547	NE	0·0	10	0
	4	30·215	50·7	50·2	49·7	·356	4·0	0·2	96	548	NE	0·0	10	0
	5	30·212	50·4	50·1	49·8	·358	4·0	0·1	98	548	NE	0·0	10	0
	6	30·216	50·5	50·2	49·9	·360	4·1	0·1	98	548	NE	0·0	10	0
	7	30·225	50·7	50·5	50·3	·365	4·1	0·1	99	548	NE	0·0	10	0
	8	30·234	50·6	50·4	50·2	·364	4·1	0·1	99	548	NE	0·0	10	0
	9	30·244	49·8	49·6	49·4	·353	4·0	0·1	99	549	NE	0·0	10	0
	10	30·246	49·8	49·5	49·2	·351	4·0	0·1	98	549	NE	0·0	10	0
	11	30·249	49·7	49·5	49·3	·352	4·0	0·1	99	549	NE	0·0	10	0
Nov. 15.	12	30·090	43·5	42·7	41·7	·264	3·0	0·3	94	554	NE	0·0	10	5
	13	30·072	42·6	41·8	40·9	·256	2·9	0·3	93	555	NE	0·0	0	5
	14	30·069	41·4	41·0	40·5	·252	3·0	0·1	97	556	NE	0·0	0	6
	15	30·057	41·6	41·0	40·3	·250	2·9	0·1	95	556	NE	0·0	2	6
	16	30·038	42·0	41·4	40·7	·254	2·9	0·2	95	555	NE	0·0	10	7
	17	30·040	42·3	41·7	41·1	·258	2·9	0·2	95	554	NE	0·0	2	7
	18	30·046	43·0	42·6	42·1	·268	3·1	0·1	97	554	NE	0·0	10	7
	19	30·052	43·9	43·6	43·1	·279	3·3	0·1	98	553	NE	0·0	10	7
	20	30·050	44·0	43·6	43·1	·278	3·1	0·1	97	552	NE	0·0	10	7
	21	30·052	44·8	44·5	44·1	·289	3·4	0·1	98	552	NE	0·0	10	8
	22	30·064	45·8	45·5	45·2	·302	3·5	0·1	98	551	NE	0·0	10	0
	23	30·066	47·0	46·0	44·9	·298	3·4	0·3	93	549	ENE	0·0	10	0
Nov. 16.	0	30·047	49·0	47·0	44·8	·297	3·4	0·6	86	547	ENE	0·0	10	0
	1	30·039	51·3	48·6	45·9	·309	3·6	0·7	82	544	ENE	0·0	8	0
	2	30·023	49·2	47·0	44·6	·295	3·4	0·6	85	546	ENE	0·0	10	0
	3	30·016	48·8	46·5	44·1	·289	3·3	0·6	84	547	E	0·0	10	0
	4	30·027	45·8	44·5	43·0	·277	3·1	0·4	90	550	ESE	0·0	0	0
	5	30·042	43·5	43·0	42·4	·271	3·2	0·1	96	553	ESE	0·0	0	0
	6	30·049	42·5	42·5	42·5	·272	3·2	0·0	100	554	ESE	0·0	0	0
	7	30·057	41·1	40·8	40·4	·251	2·9	0·2	98	556	SE	0·0	0	0
	8	30·056	40·8	40·8	40·8	·255	3·1	0·0	100	556	SE	0·0	0	0
	9	30·065	39·1	39·1	39·1	·238	2·8	0·0	100	558	SE	0·0	0	0
	10	30·068	39·0	38·8	38·5	·233	2·7	0·1	98	559	SE	0·0	0	0
	11	30·069	37·0	37·0	37·0	·220	2·6	0·0	100	560	SE	0·0	0	0
Nov. 22.	12	29·725	46·3	45·5	44·7	·296	3·3	0·1	94	544	SSW	0·0	0	3
	13	29·682	46·0	45·5	45·0	·299	3·4	0·2	97	543	SSW	0·0	10	4
	14	29·636	49·0	47·8	46·4	·316	3·6	0·4	92	539	SSW	0·0	6	4
	15	29·592	49·5	48·0	46·4	·316	3·6	0·5	89	538	SSW	0·0	7	4
	16	29·570	50·8	49·5	48·1	·336	3·8	0·4	91	536	SSW	0·0	10	4
	17	29·512	51·0	49·5	47·9	·334	3·8	0·5	89	535	SSW	0·0	10	5
	18	29·468	52·0	50·5	49·0	·348	4·0	0·4	90	533	SSW	0·0	10	6
	19	29·434	53·0	51·5	50·0	·361	4·1	0·4	89	531	SSW	0·0	10	8
	20	29·414	54·4	52·5	50·6	·369	4·2	0·6	87	529	SSW	2·0	10	10
	21	29·403	54·0	53·0	52·0	·388	4·4	0·3	93	529	SSW	2·0	10	10
	22	29·425	50·1	48·0	45·8	·308	3·5	0·6	85	534	WSW	2·0	10	0
	23	29·421	50·0	48·2	46·3	·315	3·5	0·6	87	534	SW	0·0	10	0
Nov. 23.	0	29·407	50·2	47·7	45·0	·299	3·5	0·6	83	534	SW	0·0	10	0
	1	29·394	50·2	47·7	45·0	·299	3·5	0·6	83	534	SW	0·0	10	0
	2	29·386	50·0	47·8	45·4	·304	3·5	0·6	85	534	SW	0·0	10	0
	3	29·371	49·8	47·8	45·6	·306	3·5	0·5	87	534	SW	0·0	10	0
	4	29·354	48·6	46·5	44·2	·290	3·4	0·5	85	535	SW	0·0	10	0

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Nov. 8. 22	10	10	..	..	Overcast ; thin rain falling.
23	0	0	..	..	Overcast.
Nov. 9. 0	0	0	..	..	Overcast.
1	10	10	..	..	Overcast.
2	0	0	..	..	Overcast.
3	5	5	..	..	Overcast.
4	0	0	..	..	Overcast ; thin rain falling.
5	0	0	..	..	Overcast ; thin rain falling.
6	5	5	..	..	Overcast.
7	10	20	..	..	Overcast.
8	10	20	..	..	Overcast.
9	20	20	..	..	Overcast.
10	20	20	..	..	Overcast.
11	20	20	..	..	Overcast.
Nov. 15. 12	0	0	..	..	Overcast.
13	0	0	..	..	Cloudless.
14	0	0	..	..	Cloudless.
15	0	0	..	..	Stratus and cirro-stratus near the horizon.
16	0	0	..	..	Overcast.
17	0	0	..	..	Stratus here and there.
18	0	0	..	..	Overcast.
19	0	0	..	..	Overcast.
20	0	0	..	..	Overcast.
21	0	0	..	..	Overcast.
22	10	10	..	..	Overcast.
23	10	10	..	..	Overcast.
Nov. 16. 0	20	20	..	..	Overcast.
1	40	40	..	..	Generally overcast.
2	40	40	..	..	Overcast.
3	60	40	..	..	Overcast.
4	40	40	..	..	Cloudless.
5	30	30	..	..	Cloudless.
6	30	30	..	..	Cloudless.
7	30	30	..	..	Cloudless ; slight haze.
8	10	20	..	..	Cloudless ; slight haze.
9	20	20	..	..	Cloudless ; slight haze.
10	20	20	..	..	Cloudless ; slight haze.
11	30	30	..	..	Cloudless.
Nov. 22. 12	5	5	..	..	Cloudless.
13	5	5	..	..	Overcast.
14	5	5	..	..	Partially cloudy.
15	5	5	..	..	Partially cloudy.
16	5	5	..	..	Overcast.
17	5	5	..	..	Overcast.
18	5	5	..	..	Overcast.
19	10	10	..	..	Overcast.
20	0	0	..	..	Overcast.
21	Out of range	40—	13° to A	2 in 1[s] at 0·05	Overcast ; heavy rain falling.
22	0	0	..	..	Overcast ; no rain.
23	10	10	..	..	Overcast ; heavy rain.
Nov. 23. 0	40	40	..	..	Overcast.
1	50	40	..	..	Overcast.
2	50	40	..	..	Overcast.
3	Out of range	40	..	..	Overcast.
4	Out of range	40	..	..	Overcast.

November 22[d]. 21[h]. A little time before this observation the inclination of the gold leaf of the dry pile was 40° +.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Nov. 23. 5	29·346	48·5	46·3	43·9	·287	3·3	0·6	85	535	SW	0·0	10	0
6	29·323	48·5	46·5	44·3	·292	3·4	0·5	86	534	SW	0·0	10	0
7	29·313	48·0	45·7	43·2	·279	3·1	0·7	83	536	SW	0·0	10	0
8	29·306	47·5	45·4	43·1	·278	3·2	0·5	86	535	SW	0·0	10	0
9	29·294	47·5	46·6	45·6	·306	3·4	0·3	94	535	SW	0·0	10	0
10	29·281	46·5	45·5	44·5	·295	3·4	0·4	93	536	SW	0·0	10	0
11	29·269	46·0	45·1	44·1	·289	3·3	0·3	94	536	SW	0·0	10	0
Nov. 29. 12	29·886	38·4	38·4	38·4	·232	2·7	0·0	100	556	ENE	0·0	4	0
13	29·877	39·5	39·5	39·5	·242	2·9	0·0	100	555	E	0·0	10	0
14	29·852	43·0	41·6	39·9	·246	2·8	0·4	88	550	ESE	0·0	10	0
15	29·840	43·4	41·7	39·7	·244	2·8	0·4	85	550	ESE	1·0	10	2
16	29·826	43·8	42·0	39·8	·245	2·8	0·5	86	549	ESE	0·5	10	3
17	29·806	44·0	42·2	40·0	·247	2·8	0·5	85	548	ESE	1·0	10	4
18	29·796	43·1	41·9	40·5	·252	2·9	0·3	88	549	ESE	2·0	10	5
19	29·786	42·3	41·7	41·0	·257	2·9	0·2	95	550	ESE	1·0	10	6
20	29·780	42·6	40·9	38·8	·236	2·7	0·4	87	549	ESE	1·5	10	6
21	29·787	42·1	40·6	38·7	·235	2·7	0·4	88	550	ESE	1·5	10	4
22	29·787	41·8	39·8	37·3	·223	2·6	0·5	85	551	ESE	1·5	10	0
23	29·779	41·0	38·8	36·0	·212	2·5	0·5	83	551	SSE	1·5	10	0
Nov. 30. 0	29·730	41·7	39·7	37·3	·223	2·6	0·5	85	550	SSE	1·0	10	1
1	29·736	40·9	38·6	35·7	·209	2·4	0·6	81	551	SSE	2·0	10	1
2	29·724	40·5	38·7	36·4	·215	2·5	0·5	86	551	SSE	0·0	10	3
3	29·724	39·8	38·2	36·2	·214	2·5	0·4	87	551	SSE	0·0	10	3
4	29·725	39·5	38·0	36·0	·212	2·4	0·2	88	552	SSE	0·0	10	3
5	29·725	39·4	38·0	36·2	·214	2·5	0·4	89	552	SSE	0·0	10	2
6	29·724	39·7	38·2	36·3	·214	2·5	0·4	88	552	SSE	0·0	10	2
7	29·722	39·6	38·5	37·1	·221	2·5	0·3	91	552	SSE	0·0	10	2
8	29·705	37·1	37·0	36·9	·219	2·6	0·1	99	554	SE	0·0	0	3
9	29·724	36·6	36·4	36·2	·214	2·6	0·1	98	555	SSE	0·0	0	3
10	29·720	36·8	36·8	36·8	·218	2·7	0·0	100	555	SSE	0·0	7	5
11	29·720	36·3	36·3	36·3	·214	2·6	0·0	100	555	SSE	0·0	6	5
Dec. 6. 12	30·283	51·7	50·8	50·0	·361	4·1	0·3	94	548	SSW	0·0	10	10
13	30·282	52·0	51·0	50·0	·361	4·1	0·3	93	547	SSW	0·0	10	10
14	30·282	51·0	51·0	51·0	·374	4·2	0·0	100	548	SSW	0·0	10	10
15	30·284	51·5	51·5	51·5	·381	4·3	0·0	100	549	SSW	0·0	10	10
16	30·284	50·5	50·5	50·5	·367	4·2	0·0	100	549	SSW	0·0	10	10
17	30·283	50·5	50·5	50·5	·367	4·2	0·0	100	549	SSW	0·0	10	10
18	30·280	50·8	50·5	50·2	·364	4·1	0·1	98	549	SSW	0·0	10	10
19	30·280	51·0	51·0	51·0	·374	4·2	0·0	100	548	SSW	0·0	10	10
20	30·294	51·4	50·3	49·2	·351	4·0	0·3	92	548	SSW	0·0	8	10
21	30·305	52·0	50·8	49·7	·357	4·0	0·4	91	548	SSW	0·0	10	10
22	30·315	52·0	50·6	49·3	·352	4·0	0·4	90	548	SSW	0·0	10	10
23	30·299	52·5	50·6	48·8	·345	3·9	0·6	87	547	SSW	1·0	10	10
Dec. 7. 0	30·282	52·3	50·5	48·3	·339	3·8	0·6	86	547	SW	3·0	10	5
1	30·268	52·5	50·4	48·3	·339	3·8	0·6	85	547	SW	1·5	10	6
2	30·264	51·9	50·5	49·1	·349	4·0	0·4	90	547	SW	1·0	9	6
3	30·262	52·2	50·7	49·3	·352	4·0	0·4	89	547	SW	2·0	10	6
4	30·261	52·8	50·9	49·1	·349	3·9	0·6	87	547	SW	2·0	10	6
5	30·256	52·7	51·0	49·3	·352	4·0	0·5	89	547	WSW	2·2	10	6
6	30·264	53·2	51·2	49·2	·351	3·9	0·6	86	546	WSW	1·5	10	5
7	30·278	53·0	51·1	49·2	·351	3·9	0·6	87	546	WSW	1·5	9	5
8	30·319	53·3	51·1	48·9	·346	3·9	0·7	85	547	WSW	2·5	4	5
9	30·331	52·7	51·1	49·5	·355	4·0	0·5	89	548	W	2·0	4	5

1857. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Nov. 23. 5	20	20	..	..	Overcast.
6	Out of range	40	..	..	Overcast.
7	60	40	..	..	Overcast.
8	60	40	..	..	Overcast.
9	Out of range	40; 40—	2° to A	..	Overcast; thin rain falling.
10	Out of range	40	..	..	Overcast; thin rain falling.
11	0	0	..	..	Overcast; thin rain falling.
Nov. 29. 12	40	40	..	..	Cirrus and stratus here and there.
13	20	20	..	..	Overcast.
14	0	0	..	..	Overcast.
15	0	0	..	..	Overcast; strong wind.
16	0	0	..	..	Overcast; strong wind.
17	0	0	..	..	Overcast; strong wind.
18	0	0	..	..	Overcast; strong wind.
19	0	0	..	..	Overcast; strong wind.
20	0	0	..	..	Overcast; strong wind.
21	5	5	..	..	Overcast; strong wind.
22	5	5	..	..	Overcast; strong wind.
23	10	10	..	..	Overcast; strong wind.
Nov. 30. 0	20	20	..	..	Overcast; strong wind.
1	30	30	..	..	Overcast; strong wind.
2	10	10	..	..	Overcast.
3	30	30	..	..	Overcast.
4	60	40	..	..	Overcast.
5	60	40	..	..	Overcast.
6	60	40	..	..	Overcast.
7	60	40	..	..	Overcast.
8	Out of range	40	..	1 in 1" at 0·02	Cloudless.
9	40	30	..	..	Cloudless.
10	40	30	..	..	Partially cloudy.
11	20	20	..	..	Partially cloudy; the Moon is surrounded by a well coloured corona, within which is a glory; the corona is fine of its kind.
Dec. 6. 12	0	0	..	..	Overcast.
13	0	0	..	..	Overcast.
14	20	20	..	..	Overcast.
15	0	0	..	..	Overcast.
16	0	0	..	..	Overcast.
17	0	0	..	..	Overcast.
18	0	0	..	..	Overcast.
19	40	40	..	..	Overcast.
20	80	40	..	..	Cirro-cumulus clouds cover a large portion of the sky.
21	20	20	..	..	Cirro-cumulus clouds cover the sky.
22	10	10	..	..	Overcast.
23	10	10	..	..	Overcast; high wind.
Dec. 7. 0	40	40	..	..	Overcast; high wind.
1	10	10	..	..	Overcast; high wind.
2	30	30	..	..	Generally overcast; high wind.
3	40	40	..	..	Overcast; high wind.
4	20	20	..	..	Overcast; high wind.
5	40	40	..	..	Overcast; high wind.
6	20	20	..	..	Overcast; high wind.
7	60	40	..	..	Generally overcast; high wind.
8	Out of range	40	..	..	Partially clear; high wind.
9	Out of range	40	..	..	Partially clear; high wind.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Dec. 7. 10	30·361	51·0	49·5	47·9	·334	3·7	0·5	89	550	W	1·5	2	5
11	30·374	49·2	47·8	46·2	·313	3·6	0·4	90	553	W	2·0	0	6
Dec. 13. 12	30·354	41·4	39·2	36·5	·216	2·5	0·5	83	561	SW	0·0	10	0
13	30·341	41·3	38·9	35·9	·211	2·5	0·6	82	561	Calm	0·0	10	0
14	30·332	41·1	38·7	35·6	·208	2·4	0·6	81	561	Calm	0·0	10	0
15	30·318	40·5	38·5	36·0	·212	2·5	0·5	85	562	Calm	0·0	10	0
16	30·305	39·8	38·3	36·4	·215	2·5	0·4	88	562	Calm	0·0	10	2
17	30·286	39·5	38·0	36·0	·212	2·4	0·4	88	562	Calm	0·0	10	3
18	30·282	39·1	37·7	36·0	·212	2·4	0·4	88	563	Calm	0·0	10	3
19	30·274	38·9	37·5	35·6	·208	2·4	0·3	89	563	Calm	0·0	10	4
20	30·275	38·9	37·6	35·8	·210	2·4	0·4	89	563	Calm	0·0	10	5
21	30·283	39·4	38·1	36·4	·215	2·5	0·4	90	562	Calm	0·0	10	0
22	30·282	40·2	38·1	35·4	·207	2·4	0·5	83	561	Calm	0·0	10	0
23	30·265	40·5	38·4	35·7	·209	2·4	0·5	84	561	Calm	0·0	10	0
Dec. 14. 0	30·220	40·8	39·0	36·7	·218	2·5	0·5	86	560	Calm	0·0	10	5
1	30·195	41·8	40·0	37·7	·226	2·6	0·5	86	558	SW	0·0	10	5
2	30·174	42·8	41·0	38·8	·236	2·7	0·5	86	556	SW	0·0	10	6
3	30·160	42·6	41·0	39·2	·239	2·7	0·4	87	556	SW	0·0	10	6
4	30·155	42·7	41·0	39·0	·238	2·7	0·4	86	556	SW	0·0	10	6
5	30·147	42·5	41·0	39·2	·239	2·7	0·4	88	556	SW	0·0	10	6
6	30·139	41·5	40·2	38·5	·233	2·7	0·4	90	557	SW	0·0	10	6
7	30·126	41·0	39·7	38·1	·230	2·6	0·4	89	558	SW	0·0	10	6
8	30·114	40·6	40·0	39·3	·240	2·8	0·1	95	558	SW	0·0	10	6
9	30·105	41·6	40·0	38·0	·229	2·6	0·4	88	556	SW	0·0	10	5
10	30·096	41·6	40·0	38·0	·229	2·6	0·4	88	556	SW	0·0	10	5
11	30·087	41·5	40·0	38·1	·230	2·6	0·4	88	556	SW	0·0	10	5
Dec. 20. 12	29·858	41·2	40·3	39·2	·239	2·7	0·3	93	552	WSW	0·0	0	3
13	29·864	41·2	40·2	38·9	·237	2·7	0·3	92	552	WSW	0·0	9	3
14	29·869	42·2	40·9	39·3	·240	2·8	0·4	90	551	WSW	0·0	10	4
15	29·871	43·2	41·8	40·2	·249	2·8	0·4	87	550	WSW	0·0	10	4
16	29·867	44·5	43·3	41·9	·266	3·0	0·3	91	549	WSW	0·0	10	4
17	29·867	46·0	44·8	43·4	·281	3·3	0·3	92	547	WSW	0·0	10	4
18	29·862	45·8	45·3	44·8	·297	3·4	0·2	96	547	WSW	0·0	10	5
19	29·860	47·1	46·6	46·1	·312	3·5	0·2	96	545	WSW	0·6	10	6
20	29·870	47·5	46·7	45·8	·308	3·4	0·3	94	545	WSW	0·0	10	8
21	29·878	48·2	47·3	46·3	·315	3·5	0·3	94	545	WSW	0·8	10	4
22	29·889	49·3	48·0	46·6	·318	3·6	0·4	91	544	WSW	0·5	10	0
23	29·895	50·2	48·5	46·7	·319	3·6	0·5	88	543	WSW	1·3	10	0
Dec. 21. 0	29·899	51·5	49·2	46·8	·321	3·6	0·7	84	541	WSW	1·0	10	0
1	29·914	51·3	49·2	47·0	·323	3·6	0·7	85	542	WSW	0·8	10	0
2	29·912	51·4	49·0	46·5	·317	3·6	0·7	84	542	WSW	0·6	10	0
3	29·916	51·2	49·0	46·7	·319	3·6	0·7	85	542	WSW	1·0	10	0
4	29·922	51·1	49·0	46·8	·321	3·6	0·6	85	542	WSW	1·3	10	0
5	29·925	50·6	48·9	47·2	·325	3·6	0·9	88	543	WSW	0·8	10	0
6	29·931	50·2	48·7	47·2	·325	3·6	0·5	89	543	WSW	0·6	10	0
7	29·933	50·5	49·0	47·4	·328	3·7	0·5	89	543	WSW	1·6	10	0
8	29·944	50·5	49·0	47·4	·328	3·7	0·5	89	543	WSW	1·0	10	0
9	29·956	51·0	49·5	47·9	·334	3·7	0·5	89	543	WSW	2·8	10	0
10	29·966	51·5	49·6	47·6	·330	3·7	0·6	87	543	WSW	2·0	10	0
11	29·977	51·5	49·5	47·4	·328	3·7	0·7	86	543	WSW	1·4	10	0
Dec. 27. 12	30·294	37·1	36·6	35·9	·211	2·4	0·2	95	565	W	0·0	10	0
13	30·283	35·8	35·6	35·4	·207	2·4	0·1	98	567	Calm	0·0	4	0
14	30·294	34·3	34·3	34·3	·198	2·3	0·0	100	569	Calm	0·0	0	0
15	30·299	33·8	33·8	33·8	·194	2·2	0·0	100	569	Calm	0·0	0	0
16	30·300	33·2	33·2	33·2	·189	2·2	0·0	100	570	Calm	0·0	0	0

1857. Month, Day, and Hour.	Electrical Indications.				Clouds and Weather.
	Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	
d h		°			
Dec. 7. 10	Out of range	40	..	3 in 1^s at 0·03	Clouds in the W., otherwise clear ; high wind.
11	Out of range	40	..	3 in 1^s at 0·03	Cloudless ; strong wind.
	°				
Dec. 13. 12	20	20	..	..	Overcast.
13	20	20	..	..	Overcast.
14	10	10	..	..	Overcast.
15	10	10	..	..	Overcast.
16	10	10	..	..	Overcast.
17	20	20	..	..	Overcast.
18	10	10	..	..	Overcast.
19	Out of range	40	..	..	Overcast.
20	Out of range	40	2° to B	2 in 1^s at 0·03	Overcast ; rain.
21	Out of range	40	..	..	Overcast.
22	Out of range	40	..	..	Overcast.
23	Out of range	40	..	..	Overcast.
Dec. 14. 0	Out of range	40	..	..	Overcast.
1	Out of range	40	..	..	Overcast.
2	Out of range	40	..	..	Overcast.
3	Out of range	40	..	..	Overcast.
4	Out of range	40	..	..	Overcast.
5	Out of range	40	..	..	Overcast.
6	Out of range	40	..	..	Overcast.
7	Out of range	40	..	..	Overcast.
8	Out of range	40	..	..	Overcast.
9	60	40	..	..	Overcast.
10	60	40	..	..	Overcast.
11	80	40	..	..	Overcast.
Dec. 20. 12	0	0	..	..	Cloudless.
13	0	0	..	..	Generally overcast.
14	0	0	..	..	Overcast.
15	0	0	..	..	Overcast.
16	0	0	..	..	Overcast.
17	0	0	..	..	Overcast ; heavy rain.
18	0	0	..	..	Overcast ; heavy rain.
19	0	0	..	..	Overcast ; the rain ceased at 19^h. 15^m.
20	5	5	..	..	Overcast.
21	10	10	..	..	Overcast.
22	20	20	..	..	Overcast.
23	20	20	..	..	Overcast.
Dec. 21. 0	60	40	..	..	Overcast.
1	60	40	..	..	Overcast.
2	60	40	..	..	Overcast.
3	80	40	..	..	Overcast.
4	70	40	..	..	Overcast.
5	30	30	..	..	Overcast.
6	20	30	..	..	Overcast; rain falling.
7	30	30	..	..	Overcast.
8	5	5	..	..	Overcast.
9	20	20	..	..	Overcast.
10	30	30	..	..	Overcast.
11	20	30	..	..	Overcast.
Dec. 27. 12	Out of range	40	1° to B	..	Dense cumulus and cirro-cumulus.
13	20	20	..	..	Cumulus, cirro-cumulus, and cirrus here and there.
14	5	5	..	..	Cloudless ; haze.
15	20	20	..	..	Cloudless ; haze.
16	10	10	..	..	Cloudless ; haze.

1857. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Dec. 27. 17	30·303	32·2	32·2	32·2	·182	2·1	0·0	100	570	Calm	0·0	0	0
18	30·306	31·2	31·2	31·2	·175	2·1	0·0	100	572	Calm	0·0	0	0
19	30·313	31·2	31·2	31·2	·175	2·1	0·0	100	573	Calm	0·0	0	0
20	30·327	31·2	31·2	31·2	·175	2·1	0·0	100	573	Calm	0·0	0	0
21	30·331	32·7	32·7	32·7	·186	2·1	0·0	100	571	Calm	0·0	0	0
22	30·350	34·9	34·7	34·5	·199	2·3	0·1	99	569	Calm	0·0	7	0
23	30·342	36·5	35·8	34·8	·202	2·3	0·2	94	567	Calm	0·0	0	0
Dec. 28. 0	30·342	38·2	37·2	35·8	·210	2·4	0·3	91	565	Calm	0·0	10	0
1	30·336	39·3	38·3	37·0	·220	2·5	0·3	92	564	Calm	0·0	10	0
2	30·339	39·5	38·3	36·7	·218	2·5	0·3	90	563	Calm	0·0	10	0
3	30·350	39·8	38·3	36·3	·214	2·5	0·4	88	563	Calm	0·0	10	0
4	30·346	39·1	38·0	36·6	·217	2·5	0·3	91	564	Calm	0·0	2	0
5	30·346	38·4	37·5	36·2	·214	2·5	0·3	92	565	Calm	0·0	6	0
6	30·352	39·0	38·0	36·7	·218	2·5	0·3	92	564	Calm	0·0	10	0
7	30·357	39·0	37·5	35·6	·208	2·4	0·4	88	564	Calm	0·0	10	0
8	30·363	38·8	37·5	35·8	·210	2·4	0·4	89	565	Calm	0·0	10	0
9	30·369	38·6	38·0	37·2	·222	2·6	0·1	95	565	Calm	0·0	9	0
10	30·370	38·4	38·0	37·5	·225	2·7	0·1	97	565	Calm	0·0	10	0
11	30·374	38·5	38·0	37·3	·223	2·6	0·1	96	565	Calm	0·0	10	0

In explanation of the hourly observations of meteorological elements given in the preceding Tables, and made once in every week during twenty-four hours from 1856, August, to 1857, December, it may be stated that they have their origin in the necessity that was found for taking hourly readings, during the same period of time, of the thermometers included in the boxes of the Horizontal Force and Vertical Force Magnetometers, for the purpose of obtaining, in connexion with the two-hourly observations of their temperatures which were made during the years 1841 to 1847 inclusive, the law of diurnal change of temperature of those magnets. The hourly readings of the thermometers in the boxes of the magnets are printed in connexion with the Magnetical Observations of 1856 and 1857, and it has been thought desirable to add to them those observations which it was found expedient to make of the general meteorological elements at the same time, advantage being taken of the necessity of an observer being employed throughout the day and night, for the purpose of assisting in the determination of the diurnal range of those elements.

1857. Month, Day, and Hour.	Electrical Indications.				Clouds and Weather.
	Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	
d h		°			
Dec. 27. 17	Out of range	40	..	..	Cloudless.
18	Out of range	40	1° to B	..	Cloudless.
19	Out of range	40	1° to B	..	Cloudless.
20	Out of range	40	..	..	Cloudless.
21	Out of range	40	..	..	Cloudless ; haze and fog.
22	Out of range	40	..	..	Haze and fog ; light clouds.
23	Out of range	40	..	..	Haze and fog.
Dec. 28. 0	Out of range	40	..	..	Fog.
1	Out of range	40	..	..	Fog.
2	Out of range	40	..	..	Fog.
3	Out of range	40	..	..	Fog.
4	Out of range	40	..	..	Cirro-cumulus near the horizon.
5	Out of range	40	..	..	Partially cloudy ; cirro-cumulus.
6	Out of range	40	..	..	Cirro-cumulus in all directions.
7	Out of range	40	..	..	Cirro-cumulus in all directions.
8	Out of range	40	..	..	Cirro-cumulus ; haze and fog.
9	Out of range	40	..	..	Cirro-cumulus ; haze and fog.
10	Out of range	40	..	..	The whole sky is covered with thin cirrus.
11	Out of range	40	..	..	The whole sky is covered with thin cirrus.

MAXIMA AND MINIMA READINGS OF THE BAROMETER.

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

MAXIMA.			MINIMA.			MAXIMA.			MINIMA.		
Approximate Mean Solar Time, 1857.		Reading.	Approximate Mean Solar Time, 1857.		Reading.	Approximate Mean Solar Time, 1857.		Reading.	Approximate Mean Solar Time, 1857.		Reading.
	d h m	in.		d h m	in.		d h m	in.		d h m	in.
January	7. 9. 0	30·258	January	3. 9. 0	28·968	July	2. 9. 0	29·912	June	30. 0. 0	29·411
	14. 9. 0	30·050		10. 22. 0	28·848		12. 21. 0	30·193	July	5. 11. 20	29·496
	17. 0. 0	30·212		15. 3. 0	29·847		18. 9. 0	30·064		16. 0. 0	29·699
	21. 21. 0	29·709		20. 9. 0	29·179		28. 21. 0	30·026		24. 21. 0	29·633
	26. 21. 0	29·764		23. 21. 0	28·970	August	2. 2. 15	29·978		30. 3. 0	29·852
February	0. 21. 35	29·820		30. 21. 0	29·525		11. 21. 0	30·009	August	7. 3. 0	29·514
	4. 9. 0	30·138	February	2. 9. 0	29·407		18. 21. 0	30·004		13. 21. 0	29·538
	12. 9. 0	30·246		9. 9. 0	29·382		26. 21. 0	30·180		23. 8. 0	29·625
March	0. 21. 50	30·433		17. 9. 0	29·859	September	6. 21. 0	29·761	September	3. 21. 0	29·405
	12. 0. 0	29·915	March	8. 1. 30	29·369		19. 0. 0	30·245		8. 3. 0	29·292
	16. 9. 0	29·892		13. 21. 0	28·968	October	1. 21. 0	30·075		25. 3. 0	29·666
	21. 0. 0	29·896		18. 3. 0	29·619		12. 21. 0	30·098	October	8. 3. 0	28·669
	27. 9. 0	29·899		24. 21. 0	29·323		19. 21. 0	29·720		18. 8. 20	29·339
April	0. 21. 0	29·351		30. 3. 0	29·025		23. 21. 0	30·016		22. 3. 0	29·457
	4. 0. 0	29·662	April	1. 21. 0	29·037		28. 9. 0	29·913		26. 21. 0	29·636
	7. 9. 0	29·820		5. 9. 0	29·437		30. 21. 0	30·017		29. 21. 0	29·671
	11. 9. 0	29·418		10. 7. 0	29·274	November	11. 21. 0	30·609	November	2. 3. 0	29·535
	20. 21. 0	30·136		12. 21. 0	28·821		20. 21. 0	30·230		17. 3. 0	29·997
May	5. 9. 0	30·116		25. 9. 0	29·521		28. 9. 0	30·024		23. 21. 0	29·087
	15. 21. 0	30·005	May	10. 21. 0	29·513	December	2. 0. 0	29·937	December	0. 21. 0	29·709
	31. 9. 20	29·951		25. 9. 0	29·252		7. 21. 0	30·550		3. 3. 0	29·617
June	3. 21. 0	29·991	June	2. 3. 0	29·716		12. 0. 0	30·574		9. 9. 0	30·222
	12. 21. 0	30·175		10. 3. 0	29·396		17. 9. 0	30·077		16. 3. 0	29·954
	17. 21. 0	30·036		15. 21. 0	29·780		19. 9. 0	30·026		18. 9. 0	29·841
	25. 0. 0	30·254		20. 9. 0	29·788		29. 21. 0	30·454		20. 6. 0	29·754

MONTHLY MEANS of RESULTS for METEOROLOGICAL ELEMENTS at the ROYAL OBSERVATORY, GREENWICH, in the Year 1857.

1857. Month.	Mean Reading of the Barometer.	Temperature of the Air.							Mean Temperature of Dew Point.
		Highest.	Lowest.	Range in the Month.	Mean of all the Highest.	Mean of all the Lowest.	Mean Daily Range.	Mean Temperature.	
	in.	°	°	°	°	°	°	°	°
January	29·634	52·7	20·0	32·7	41·8	32·1	9·7	36·6	33·9
February	29·950	56·9	20·0	36·9	47·2	32·5	14·7	39·2	35·1
March	29·720	66·2	27·7	38·5	50·2	35·9	14·3	41·8	36·4
April	29·632	69·0	28·2	40·8	55·8	38·8	17·0	45·7	40·2
May	29·786	80·2	31·5	48·7	67·1	44·0	23·1	54·0	46·2
June	29·858	92·7	38·8	53·9	76·0	50·5	25·5	61·8	53·2
July	29·847	89·7	45·7	44·0	77·9	54·3	23·6	64·5	55·1
August	29·836	88·0	48·8	39·2	78·1	56·4	21·7	65·4	57·5
September	29·786	80·7	41·5	39·2	70·2	52·1	18·1	59·7	55·3
October	29·695	69·0	37·8	31·2	61·6	47·1	14·5	52·9	50·6
November	29·942	64·3	30·0	34·3	51·9	40·6	11·3	45·8	44·2
December	30·158	57·0	30·8	26·2	50·3	39·6	10·7	45·1	42·4
Means	29·820	72·2	33·4	38·8	60·7	43·7	17·0	51·0	45·8

1857. Month.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a Cubic Foot of Air.	Mean additional Weight required to saturate a Cubic Foot of Air.	Mean Degree of Humidity. (Sat. = 100.)	Mean Weight of a Cubic Foot of Air.	Wind.			Mean Amount of Cloud. 0–10	Rain.	
						Prevailing Direction.	Mean Daily Pressure in lbs. on Square Foot.	Mean Daily Horizontal Movement of Wind in Miles.		Number of Rainy Days.	Amount collected on the Ground.
	in.	gr.	gr.		gr.						in.
January	0·195	2·3	0·3	91	553	W ; N	0·25	104	7·5	20	2·6
February	0·204	2·4	0·4	86	556	S ; W	0·10	58	6·8	3	0·2
March	0·215	2·5	0·6	82	549	S ; W	0·44	88	7·8	10	1·0
April	0·247	2·8	0·7	82	543	S	0·14	91	7·8	18	1·4
May	0·313	3·5	1·2	75	537	E	0·03	64	6·1	5	0·6
June	0·406	4·5	1·6	74	530	E ; S	0·01	120	4·8	9	2·1
July	0·434	4·9	1·8	73	526	W ; S	0·01	102	6·4	9	1·3
August	0·473	5·2	1·7	77	525	S ; E	0·01	50	5·7	11	2·7
September	0·437	4·9	0·9	86	530	S ; W	0·01	56	5·8	13	3·9
October	0·369	4·1	0·4	93	536	S ; W	0·10	78	6·6	9	3·9
November	0·290	3·5	0·2	98	548	N ; E	0·02	45	8·2	8	1·3
December	0·271	3·1	0·3	90	552	S ; W	0·10	111	7·2	6	0·4
Means	0·321	3·7	0·8	84	540	..	..	..	6·7	Sum 121	Sum 21·4

READINGS OF THERMOMETERS SUNK IN THE GROUND.

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

Day of the Month, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	51 ·43	*S*	*S*	48 ·97	48 ·04	48 ·17	48 ·40	49 ·15	50 ·19	51 ·23	*S*	52 ·36
2	51 ·38	50 ·62	49 ·81	48 ·95	48 ·37	48 ·14	48 ·40	*S*	50 ·19	51 ·26	52 ·16	52 ·42
3	51 ·35	50 ·57	49 ·76	48 ·92	*S*	48 ·16	48 ·42	49 ·28	50 ·24	51 ·29	52 ·19	52 ·40
4	*S*	50 ·55	49 ·72	48 ·91	48 ·33	48 ·15	48 ·42	49 ·26	50 ·29	*S*	52 ·19	52 ·41
5	51 ·32	50 ·53	49 ·69	*S*	48 ·33	48 ·19	*S*	49 ·26	50 ·31	51 ·35	52 ·22	52 ·40
6	51 ·30	50 ·54	49 ·68	48 ·88	48 ·32	48 ·21	48 ·51	49 ·30	*S*	51 ·36	52 ·21	*S*
7	51 ·26	50 ·47	49 ·65	48 ·83	48 ·32	*S*	48 ·47	49 ·32	50 ·40	Fast Day.	52 ·22	52 ·40
8	51 ·20	*S*	*S*	48 ·82	48 ·27	48 ·14	48 ·50	49 ·32	50 ·40	51 ·40	*S*	52 ·38
9	51 ·24	50 ·41	49 ·58	48 ·77	48 ·30	48 ·18	48 ·53	*S*	50 ·43	51 ·42	52 ·25	52 ·37
10	51 ·24	50 ·41	49 ·55	Good Friday.	*S*	48 ·31	48 ·55	49 ·45	50 ·50	51 ·48	52 ·26	52 ·39
11	*S*	50 ·40	49 ·48	48 ·72	48 ·26	48 ·18	48 ·57	49 ·43	50 ·50	*S*	52 ·27	52 ·37
12	51 ·18	50 ·34	49 ·48	*S*	48 ·26	48 ·16	*S*	49 ·50	50 ·56	51 ·56	52 ·26	52 ·37
13	51 ·14	50 ·29	49 ·44	48 ·65	48 ·25	48 ·20	48 ·63	49 ·58	*S*	51 ·58	52 ·24	*S*
14	51 ·13	50 ·29	49 ·45	48 ·66	48 ·26	*S*	48 ·67	49 ·56	50 ·62	51 ·62	52 ·32	52 ·37
15	51 ·08	*S*	*S*	48 ·63	48 ·27	48 ·20	48 ·71	49 ·51	50 ·68	51 ·63	*S*	52 ·39
16	51 ·08	50 ·24	49 ·35	48 ·63	48 ·24	48 ·21	48 ·69	*S*	50 ·72	51 ·64	52 ·31	52 ·37
17	51 ·06	50 ·22	49 ·33	48 ·60	*S*	48 ·22	48 ·72	49 ·64	50 ·76	51 ·69	52 ·30	52 ·38
18	*S*	50 ·19	49 ·35	48 ·62	48 ·23	48 ·22	48 ·74	49 ·70	50 ·78	*S*	52 ·32	52 ·37
19	51 ·03	50 ·20	49 ·28	*S*	48 ·22	48 ·22	*S*	49 ·72	50 ·81	51 ·73	52 ·31	52 ·32
20	51 ·00	50 ·06	49 ·27	48 ·60	48 ·22	48 ·23	48 ·80	49 ·79	*S*	51 ·75	52 ·34	*S*
21	50 ·87	50 ·10	49 ·22		48 ·19	*S*	48 ·83	49 ·81	50 ·89	51 ·73	52 ·33	52 ·36
22	50 ·94	*S*	*S*	48 ·54	48 ·18	48 ·27	48 ·83	49 ·84	50 ·92	51 ·77	*S*	52 ·32
23	50 ·89	50 ·04	49 ·15	48 ·48	48 ·21	48 ·26	48 ·92	*S*	50 ·94	52 ·03	52 ·36	52 ·29
24	50 ·87	50 ·01	49 ·15	48 ·45	*S*	48 ·30	48 ·92	49 ·93	51 ·00	51 ·97	52 ·35	52 ·32
25	*S*	49 ·93	49 ·11	48 ·47	48 ·17	48 ·30	48 ·93	49 ·95	51 ·04	*S*	52 ·35	Christ. Day.
26	50 ·80	49 ·94	49 ·08	*S*	48 ·18	48 ·34	*S*	49 ·98	51 ·06	52 ·03	52 ·32	52 ·28
27	50 ·80	49 ·91	49 ·12	48 ·38	48 ·16	48 ·33	48 ·98	50 ·04	*S*	52 ·03	52 ·36	*S*
28	50 ·72	49 ·88	49 ·06	48 ·40	48 ·20	*S*	49 ·03	50 ·06	51 ·12	52 ·06	52 ·36	52 ·25
29	50 ·72		*S*	48 ·37	48 ·14	48 ·35	49 ·07	50 ·08	51 ·16	52 ·08	*S*	52 ·22
30	50 ·68		48 ·98	48 ·40	48 ·18	48 ·37	49 ·08	*S*	51 ·20	52 ·10	52 ·36	52 ·22
31	50 ·68		48 ·98		*S*		49 ·13	50 ·19		52 ·11		52 ·20
Means	51 ·05	50 ·26	49 ·37	48 ·65	48 ·24	48 ·23	48 ·72	49 ·64	50 ·68	51 ·69	52 ·29	52 ·34

April 21. The scales of the several Thermometers, whose bulbs are sunk below the surface of the soil, were removed for re-silvering.

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12 ·8 feet (12 French feet) below the surface of the soil, at the same times.

Day of the Month, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	49 ·72	*S*	*S*	45 ·54	46 ·30	48 ·01	51 ·08	53 ·97	55 ·98	56 ·60	*S*	53 ·90
2	49 ·62	47 ·37	45 ·80	45 ·55	46 ·36	48 ·10	51 ·17	*S*	55 ·92	56 ·61	55 ·65	53 ·88
3	49 ·54	47 ·25	45 ·77	45 ·53	*S*	48 ·21	51 ·31	54 ·26	56 ·02	56 ·86	55 ·61	53 ·80
4	*S*	47 ·22	45 ·70	45 ·55	46 ·39	48 ·32	51 ·41	54 ·31	56 ·12	*S*	55 ·53	53 ·72
5	49 ·38	47 ·13	45 ·73	*S*	46 ·46	48 ·47	*S*	54 ·28	56 ·20	56 ·54	55 ·51	53 ·58
6	49 ·32	47 ·12	45 ·73	45 ·55	46 ·43	48 ·60	51 ·72	54 ·38	*S*	56 ·53	55· 41	*S*
7	49 ·21	47 ·01	45 ·73	45 ·54	46 ·49	*S*	51 ·74	54 ·42	56 ·31	Fast Day.	55 ·35	53 ·42
8	49 ·08	*S*	*S*	45 ·58	46 ·42	48 ·71	51 ·85	54 ·46	56 ·32	56 ·46	*S*	53 ·31
9	49 ·05	46 ·90	45 ·68	45 ·55	46 ·53	48 ·82	51 ·97	*S*	56 ·33	56 ·44	55 ·23	53 ·32
10	48 ·97	46 ·78	45 ·63	Good Friday.	*S*	48 ·19	52 ·12	54 ·76	56 ·45	56 ·50	55· 19	53 ·18
11	*S*	46 ·72	45 ·63	45 ·60	46 ·54	49 ·04	52 ·22	54 ·81	56 ·40	*S*	55 ·12	53 ·04
12	48 ·80	46 ·62	45 ·65	*S*	46 ·59	49 ·13	*S*	54 ·90	56 ·48	56 ·50	55 ·05	52 ·97

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

Day of the Month, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
13	48·55	46·57	45·63	45·64	46·60	49·30	52·43	55·05	*S*	56·42	54·95	*S*
14	48·62	46·47	45·65	45·68	46·68	*S*	52·53	54·96	56·50	56·45	55·05	52·82
15	48·53	*S*	*S*	45·71	46·71	49·50	52·62	55·06	56·59	56·36	*S*	52·80
16	48·48	46·35	45·63	45·76	46·70	49·61	52·64	*S*	56·62	56·31	54·90	52·78
17	48·40	46·32	45·64	45·81	*S*	49·71	52·70	55·19	56·66	56·31	54·83	52·65
18	*S*	46·22	45·68	45·89	46·82	49·76	52·80	55·27	56·61	*S*	54·82	52·61
19	48·25	46·20	45·58	*S*	46·81	49·91	*S*	55·31	56·56	56·22	54·72	52·49
20	48·22	46·08	45·60	45·98	46·90	50·02	52·95	55·39	*S*	56·16	54·71	*S*
21	48·10	46·07	45·53		46·93	*S*	53·00	55·44	56·60	56·10	54·62	52·39
22	48·07	*S*	*S*	46·04	46·98	50·12	53·00	55·53	56·57	56·00	*S*	52·32
23	47·97	45·96	45·52	46·04	47·10	50·28	53·18	*S*	56·60	56·10	54·50	52·28
24	47·95	45·96	45·53	46·06	*S*	50·40	53·30	55·67	56·63	56·08	54·42	52·19
25	*S*	45·85	45·55	46·10	47·26	50·50	53·32	55·70	56·59	*S*	54·31	Christ. Day.
26	47·77	45·83	45·53	*S*	47·42	50·60	*S*	55·69	56·60	56·02	54·24	52·07
27	47·77	45·83	45·53	46·13	47·42	50·71	53·50	55·76	*S*	55·93	54·22	*S*
28	47·62	45·83	45·53	46·21	47·61	*S*	53·57	55·76	56·57	55·90	54·16	51·92
29	47·61		*S*	46·26	47·43	50·90	53·72	55·80	56·62	55·85	*S*	51·87
30	47·48		45·52	46·30	47·80	50·96	53·82	*S*	56·61	55·78	53·97	51·79
31	47·50		45·55		*S*		53·92	56·02		55·74		51·73
Means.	48·50	46·49	45·62	45·82	46·84	49·46	52·58	55·08	56·44	56·26	54·88	52·80

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 6·4 feet (6 French feet) below the surface of the soil, at the same times.

Day of the Month, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	46·30	*S*	*S*	44·48	46·95	52·50	57·70	60·58	62·02	59·92	*S*	51·86
2	46·15	43·70	43·70	44·73	46·97	52·57	57·92	*S*	61·92	59·83	55·97	51·75
3	45·88	43·59	43·71	44·70	*S*	52·83	58·11	60·91	61·93	59·71	55·86	51·54
4	*S*	43·51	43·60	44·82	46·95	53·04	58·18	61·00	61·97	*S*	55·68	51·40
5	45·90	43·31	43·83	*S*	47·02	53·30	*S*	60·92	61·92	59·48	55·58	51·35
6	45·91	43·26	43·96	45·13	47·04	53·45	58·25	61·08	*S*	59·40	55·50	*S*
7	45·88	42·93	44·05	45·26	47·09	*S*	58·13	61·13	61·62	Fast Day.	55·50	51·22
8	45·77	*S*	*S*	45·42	47·14	53·67	58·17	61·19	61·43	59·08	*S*	51·14
9	45·70	42·83	44·12	45·70	47·33	54·00	58·16	*S*	61·31	58·87	55·46	51·09
10	45·40	42·70	44·20	Good Friday.	*S*	54·14	58·18	61·37	61·29	58·77	55·41	51·14
11	*S*	42·90	44·14	46·15	47·47	54·32	58·10	61·31	61·06	*S*	55·38	51·10
12	45·06	42·75	44·14	*S*	47·61	54·42	*S*	61·20	61·13	58·40	55·26	50·96
13	45·11	42·83	44·07	46·32	47·79	54·51	58·10	61·20	*S*	58·17	55·11	*S*
14	45·16	42·07	44·02	46·50	48·00	*S*	58·08	61·05	60·89	58·04	55·15	50·86
15	45·16	*S*	*S*	46·48	48·28	54·61	58·33	61·08	60·82	57·87	*S*	50·74
16	45·12	42·92	43·88	46·52	48·44	54·72	58·41	*S*	60·80	57·81	54·66	50·68
17	45·03	43·01	43·90	46·47	*S*	54·85	58·64	61·12	60·71	57·76	54·44	50·60
18	*S*	42·96	44·02	46·50	49·16	55·00	58·92	61·12	60·60	*S*	54·33	50·50
19	44·80	43·02	44·02	*S*	49·45	55·20	*S*	61·09	60·55	57·58	54·03	50·40
20	44·80	43·04	44·10	46·45	49·83	55·40	59·33	61·11	*S*	57·51	53·89	*S*
21	44·65	43·12	44·17		50·12	*S*	59·43	61·14	60·57	57·40	53·64	50·48
22	44·75	*S*	*S*	46·68	50·37	55·60	59·59	61·26	60·48	57·30	*S*	50·36
23	44·70	43·27	44·59	46·76	50·82	56·00	59·81	*S*	60·44	56·10	53·36	50·25
24	44·54	43·48	44·47	46·94	*S*	56·34	59·98	61·42	60·40	56·65	53·16	50·21
25	*S*	43·45	44·50	47·06	51·22	56·50	59·98	61·50	60·27	*S*	53·00	Christ. Day
26	44·41	43·62	44·45	*S*	51·48	56·70	*S*	61·58	60·20	56·64	52·80	50·19

Some of the fluid of this thermometer, to the extent of 5°, was removed on June 22 by Mr. Negretti. A corresponding alteration was made in the position of the graduated scale.

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

Day of the Month, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
27	44·41	43·70	44·60	47·12	51·56	56·93	60·15	61·76	*S*	56·54	52·67	*S*
28	44·25	43·70	44·38	47·12	51·88	*S*	60·35	61·84	60·08	56·50	52·54	50·15
29	44·30		*S*	47·08	51·92	57·28	60·54	61·92	60·04	56·37	*S*	50·06
30	44·07		44·40	47·07	52·16	57·50	60·61	*S*	60·00	56·30	52·15	49·94
31	44·00		44·60		*S*		60·58	62·17		56·21		49·80
Means.	45·08	43·15	44·14	46·14	49·00	54·82	58·95	61·27	60·94	57·86	54·42	50·76

(IV.)—Reading of a Thermometer whose bulb is sunk to the depth of 3·2 feet (3 French feet) below the surface of the soil, at the same times.

Day of the Month, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	41·32	*S*	*S*	44·10	45·71	56·32	62·60	64·77	65·10	59·80	*S*	47·03
2	41·88	39·00	42·02	44·43	46·00	56·58	62·20	*S*	64·87	59·65	53·27	47·08
3	42·37	38·67	42·40	44·82	*S*	56·71	61·82	65·35	64·40	59·43	53·30	47·40
4	*S*	38·55	42·60	45·15	46·43	56·92	61·50	65·52	63·62	*S*	55·57	47·80
5	42·63	38·37	42·83	*S*	46·60	57·32	*S*	65·64	63·03	59·16	53·90	48·00
6	42·42	38·30	42·78	46·07	46·68	57·95	61·20	65·84	*S*	58·67	54·07	*S*
7	41·94	38·15	42·87	46·02	46·87	*S*	60·71	65·44	62·50	Fast Day.	54·11	47·70
8	41·40	*S*	*S*	47·05	47·05	57·93	60·57	64·94	62·39	57·52	*S*	48·08
9	41·27	38·95	42·90	47·32	47·33	58·61	60·18	*S*	62·32	57·08	53·87	48·00
10	41·18	39·41	42·40	Good Friday.	*S*	58·22	60·00	64·05	62·21	56·72	53·73	47·89
11	*S*	39·82	41·95	47·56	48·16	57·98	60·20	63·71	61·90	*S*	53·50	47·70
12	42·10	40·10	41·78	*S*	48·68	57·80	*S*	63·82	61·79	56·30	53·18	47·44
13	42·03	40·31	41·50	47·08	49·34	57·71	61·13	64·15	*S*	56·44	52·36	*S*
14	41·83	40·13	41·50	46·30	50·08	*S*	61·94	64·14	60·89	56·70	51·90	47·10
15	41·40	*S*	*S*	46·27	50·90	58·00	62·82	64·20	61·39	56·60	*S*	46·90
16	41·04	40·13	42·19	46·00	51·70	58·31	63·33	*S*	60·80	56·52	51·12	46·92
17	41·00	40·20	42·38	45·70	*S*	58·70	63·72	63·64	60·71	57·54	50·81	47·00
18	*S*	40·35	42·60	45·87	53·40	59·12	63·78	63·75	60·60	*S*	50·50	47·39
19	41·20	40·83	42·93	*S*	53·92	59·70	*S*	63·70	60·55	56·40	50·10	47·60
20	41·73	41·16	43·77	47·13	54·54	60·22	64·10	63·94	*S*	56·31	49·87	*S*
21	41·68	41·50	44·02		55·84	*S*	64·37	64·18	61·39	56·13	49·61	47·00
22	41·50	*S*	*S*	47·58	55·12	60·42	64·43	64·33	60·92	56·00	*S*	46·83
23	41·17	41·85	43·40	47·66	55·10	60·60	64·58	*S*	60·81	54·00	49·57	47·12
24	41·12	42·02	42·97	47·47	*S*	60·76	64·73	65·30	60·80	54·15	49·60	47·41
25	*S*	42·04	42·65	47·03	55·01	61·00	64·88	65·76	60·69	*S*	49·30	Christ. Day.
26	40·88	41·92	42·68	*S*	55·10	61·30	*S*	66·04	60·80	54·61	48·75	47·65
27	40·77	41·81	42·61	46·28	55·24	61·64		65·04	*S*	54·55	48·43	*S*
28	40·50	41·68	42·72	45·90	55·60	*S*	64·76	65·77	60·54	54·56	48·82	46·82
29	40·33		*S*	45·20	55·65	62·40	64·72	65·47	60·53	54·49	*S*	46·20
30	39·78		43·25	45·62	56·01	62·61	64·48	*S*	60·12	54·30	47·28	45·86
31	39·50		43·62		*S*		64·52	65·29		54·00		45·60
Means.	41·33	40·22	42·67	46·23	51·19	59·16	62·82	64·76	61·76	56·45	51·46	47·21

Some of the fluid, to the extent of 5°, was removed from this thermometer on June 22 by Mr. Negretti. A corresponding alteration was made in the position of the graduated scale.

(V.)—Reading of a Thermometer whose bulb is sunk to the depth of 1 inch below the surface of the soil, within the case which covers the tops of the deep-sunk Thermometers, at the same times.

Day of the Month, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	46·3	S	S	48·8	48·2	61·2	64·6	69·7	67·2	60·2	S	45·2
2	45·6	34·6	45·6	49·7	49·0	63·0	62·0	S	63·0	59·4	53·9	50·0
3	46·1	33·3	44·9	50·5	S	62·0	63·2	71·5	58·8	60·8	57·0	50·0
4	S	35·0	44·8	49·7	48·2	65·1	63·2	73·9	61·3	S	55·5	50·0
5	38·3	33·0	39·8	S	48·7	68·6	S	68·7	61·7	55·0	56·6	46·5
6	37·0	39·0	45·6	53·2	49·8	72·0	63·5	67·8	S	54·3	53·7	S
7	36·2	40·8	44·9	51·8	49·4	S	59·8	64·9	63·8	Fast Day.	53·5	51·0
8	36·4	S	S	52·0	50·8	63·1	59·0	62·6	64·4	54·2	S	46·0
9	42·4	41·2	40·0	50·8	53·2	61·1	60·8	S	62·1	53·0	53·0	46·1
10	45·5	43·3	38·5	Good Friday.	S	59·6	63·7	64·0	63·8	53·7	53·1	47·7
11	S	43·7	38·1	48·0	56·1	60·0	65·2	68·4	60·2	S	50·3	46·0
12	40·0	40·3	39·0	S	57·1	60·0	S	67·6	61·0	59·0	44·8	44·3
13	38·0	39·0	40·8	43·2	60·4	60·2	69·0	68·5	S	59·0	44·0	S
14	36·7	39·3	45·6	44·0	60·4	S	70·9	67·2	62·0	56·0	48·5	40·7
15	37·3	S	S	44·9	62·9	62·2	72·3	63·3	63·9	56·2	S	47·0
16	38·0	43·4	44·7	45·3	64·4	63·5	70·0	S	66·0	56·2	48·0	48·3
17	38·0	43·0	44·9	47·7	S	65·8	66·9	65·0	65·9	58·0	46·7	50·2
18	S	44·8	49·5	53·1	64·3	65·1	69·1	64·2	64·7	S	47·7	51·1
19	45·2	44·0	49·4	S	64·0	69·5	S	66·0	61·9	56·2	45·4	45·3
20	41·9	43·7	49·0	53·9	62·6	69·6	71·5	67·1	S	55·4	47·6	S
21	37·0	43·7	41·6		61·7	S	69·7	67·0	58·1	56·0	47·0	47·6
22	38·3	S	S	51·0	59·7	63·0	68·3	70·0	61·1	50·0	S	49·0
23	40·2	43·3	39·1	46·5	57·7	68·0	71·2	S	66·9	50·8	50·0	51·0
24	39·0	43·5	41·8	45·8	S	69·0	72·5	74·0	62·8	54·4	46·8	49·0
25	S	38·8	43·0	46·9	62·8	69·0	69·7	72·7	64·0	S	43·0	Christ. Day
26	37·3	40·1	41·9	S	60·0	69·4	S	69·0	60·7	54·2	42·2	44·2
27	37·0	41·3	43·2	43·4	60·8	70·4	68·9	69·2	S	54·5	45·6	S
28	33·2	45·0	45·4	44·3	63·7	S	67·0	67·0	61·2	54·0	42·6	40·9
29	33·0		S	46·7	60·5	68·8	67·0	66·7	58·7	53·3	S	43·3
30	32·0		48·5	47·0	61·6	65·4	67·9	S	59·5	53·0	44·2	41·9
31	35·7		47·8		S		70·9	69·2		50·0		40·5
Means.	38·9	40·7	43·7	48·3	57·6	65·6	67·0	67·9	62·5	55·2	48·8	46·6

(VI.)—Reading of a Thermometer within the case covering the deep-sunk Thermometers, whose bulb is placed on a level with their scales, at the same times.

Day of the Month, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	50·0	S	S	54·1	53·6	66·7	67·7	73·3	69·3	66·1	S	50·2
2	45·4	36·0	47·6	54·0	55·0	69·9	63·7	S	58·9	65·5	57·8	54·7
3	47·8	31·0	46·1	54·9	S	66·5	68·8	82·0	57·9	63·3	61·3	53·4
4	S	36·0	47·0	53·2	52·6	74·0	67·0	84·5	64·3	S	57·4	52·0
5	34·2	34·0	41·8	S	53·0	80·0	S	68·2	68·0	58·8	58·6	50·3
6	35·0	44·0	49·8	56·6	56·3	83·5	67·9	70·7	S	58·3	55·0	S
7	33·5	43·2	50·8	55·0	54·7	S	60·8	64·9	70·0	Fast Day.	52·0	52·7
8	34·0	S	S	57·0	57·7	66·6	61·0	60·4	65·7	53·5	S	43·0
9	45·0	46·7	41·7	54·9	54·0	65·6	68·0	S	63·7	52·0	53·0	44·7
10	47·6	47·4	41·0	Good Friday.	S	63·0	72·1	71·0	70·9	58·9	51·9	49·2
11	S	49·9	38·1	43·0	64·7	63·3	74·0	74·3	57·7	S	51·0	47·0
12	40·0	43·8	42·8	S	63·9	65·9	S	75·8	66·7	64·9	41·7	42·7
13	35·2	41·8	43·3	40·7	68·9	67·0	80·8	76·0	S	64·8	39·0	S
14	36·1	43·0	51·8	46·7	69·4	S	81·7	67·3	64·2	63·1	53·0	41·5
15	38·8	S	S	48·1	75·1	67·0	84·8	66·7	70·0	57·5	S	50·0

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

Day of the Month, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
16	39·8	49·3	51·7	48·6	76·0	67·0	76·0	*S*	74·0	58·7	48·5	51·1
17	39·0	50·0	51·8	53·8	*S*	72·0	72·0	70·0	77·0	61·9	46·5	54·0
18	*S*	52·4	62·0	65·9	74·7	72·0	80·0	70·8	72·2	*S*	53·0	50·2
19	46·0	46·0	53·3	*S*	70·8	80·8	*S*	69·8	64·6	59·4	43·6	43·7
20	42·0	47·5	50·0	63·8	69·3	79·2	81·0	69·2	*S*	58·2	47·0	*S*
21	35·7	47·9	41·8		61·6	*S*	75·4	74·9	67·8	55·0	48·8	51·2
22	37·8	*S*	*S*	51·2	59·5	66·5	71·9	79·5	65·0	54·8	*S*	52·0
23	41·8	52·2	39·1	44·8	62·1	76·0	81·6	*S*	68·0	51·1	50·3	53·9
24	38·7	47·8	47·9	46·1	*S*	81·7	81·4	84·4	71·6	59·2	43·3	50·8
25	*S*	38·8	44·2	47·3	70·0	82·9	70·0	80·0	66·3	*S*	42·6	Christ. Day.
26	35·8	44·7	45·7	*S*	64·9	83·3	*S*	76·0	65·9	61·0	38·0	47·2
27	35·0	44·4	44·3	43·8	67·2	85·7	72·6	78·2	*S*	57·0	46·5	*S*
28	32·1	52·8	52·2	45·1	72·0	*S*	67·6	72·0	61·0	58·6	44·4	37·8
29	31·0		*S*	53·0	64·1	73·6	75·9	70·4	67·2	56·8	*S*	46·0
30	30·7		54·1	50·1	66·3	68·0	76·9	*S*	66·3	54·4	42·1	39·8
31	35·0		50·8		*S*		78·7	81·7		56·1		38·0
Means.	38·6	44·6	47·3	51·3	63·7	72·6	73·3	73·5	66·7	58·4	49·1	48·0

WEEKLY MEANS of READINGS of DEEP-SUNK THERMOMETERS.

1857. Period.				Thermometers sunk in the ground.					Thermometer inclosed in the box which covers the scales of the deep-sunk Thermometers, and placed on a level with their scales.
				Bulb 24 French Feet deep.	Bulb 12 French Feet deep.	Bulb 6 French Feet deep.	Bulb 3 French Feet deep.	Bulb 1 Inch deep.	
	d		d	°	°	°	°	°	°
January	1	to	7	51·34	49·47	46·00	42·09	41·6	41·0
	8	to	14	51·19	48·85	45·37	41·64	39·8	39·7
	15	to	21	51·02	48·33	44·93	41·34	39·6	40·2
	22	to	28	50·84	47·86	44·51	40·99	37·5	36·9
	29	to	February 4	50·64	47·41	43·86	39·31	33·9	33·3
February	5	to	11	50·46	46·94	42·99	38·83	40·2	44·2
	12	to	18	50·26	46·43	42·76	40·20	41·6	46·6
	19	to	25	50·06	46·02	43·23	41·57	42·8	46·7
	26	to	March 4	49·84	45·79	43·67	42·07	43·6	47·1
March	5	to	11	49·61	45·69	44·05	42·62	41·2	43·9
	12	to	18	49·40	45·65	44·01	41·99	44·1	50·6
	19	to	26	49·20	45·55	44·31	43·29	44·0	46·1
	26	to	April 1	49·03	45·53	44·49	43·16	45·9	50·2
April	2	to	8	48·88	45·55	45·01	45·59	51·2	55·1
	9	to	15	48·69	45·64	46·23	46·91	46·2	46·7
	16	to	22	48·60	45·90	46·44	46·46	50·2	56·7
	23	to	29	48·43	46·13	47·01	46·59	45·6	46·7
	30	to	May 6	48·30	46·37	47·00	46·17	48·5	53·4
May	7	to	13	48·28	46·53	47·41	47·91	54·5	60·7
	14	to	20	48·24	46·77	49·86	52·42	63·1	72·6
	21	to	27	48·18	47·19	50·93	55·24	60·5	64·2
	28	to	June 3	48·17	47·89	52·31	56·15	62·0	67·6
June	4	to	10	48·20	48·52	53·60	57·83	64·9	72·1
	11	to	17	48·20	48·38	54·57	58·08	62·0	67·0
	18	to	24	48·25	50·08	55·59	60·14	67·4	76·0
	25	to	July 1	48·35	50·68	57·10	61·93	67·9	77·3
July	2	to	8	48·45	51·53	58·13	61·33	61·8	64·9
	9	to	15	48·61	52·32	58·16	61·05	67·0	76·9
	16	to	22	48·77	52·85	59·05	63·96	69·3	76·1
	23	to	29	48·98	53·43	60·14	64·61	69·4	74·9
	30	to	August 5	49·18	54·09	60·77	65·05	70·4	77·3
August	6	to	12	49·39	54·62	61·21	64·63	65·9	69·5
	13	to	19	49·62	55·14	61·11	63·93	69·9	70·1
	20	to	26	49·88	55·57	61·34	64·93	70·0	70·3
	27	to	September 2	50·09	55·87	61·94	65·25	66·1	71·8
September	3	to	9	50·35	56·22	61·70	63·04	62·0	64·9
	10	to	16	50·60	56·51	61·00	61·50	62·8	67·3
	17	to	23	50·85	56·60	60·56	60·83	63·1	69·1
	24	to	30	51·10	56·60	60·17	60·58	61·2	66·4
October	1	to	7	51·30	56·63	59·67	59·34	57·9	62·5
	8	to	14	51·51	56·46	58·55	56·79	55·8	69·5
	15	to	21	51·70	56·24	57·66	56·58	56·3	58·5
	22	to	28	51·98	56·01	56·62	54·65	53·0	55·3
	29	to	November 4	52·14	55·69	56·07	54·16	53·8	55·6
November	5	to	11	52·24	55·30	55·47	53·86	53·4	53·6
	12	to	18	52·29	54·93	54·83	51·65	48·3	47·0
	19	to	25	52·24	54·55	53·51	49 68	46·6	45·9
	26	to	December 2	52·36	54·06	52·30	47·90	45·0	46·0
December	3	to	9	52·39	53·53	51·29	47·83	48·3	49·4
	10	to	16	52·38	52·93	50·91	47·32	45·7	46·9
	17	to	23	52·34	52·46	50·43	47·16	49·0	50·8
	24	to	31	52·25	51·93	50·06	46·59	43·3	43·3

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.

1856. Dec. 31. 12. The direction of the wind was W.S.W.
1857. Jan. 31. 12. ,, ,, N.N.W., which implies a direct motion of 90°.
On Jan. 12. 22, the trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Therefore the whole excess of retrograde motion in the month of January was 270°.

1857. Jan. 31. 12. The direction of the wind was N.N.W.
Feb. 28. 12. ,, ,, W., which implies a retrograde motion of 67½°.
On Feb. 2. 2, 14d. 22h, 18d. 22h, 19d. 22h, the trace was shifted to the next set of lines upwards; on February 1d. 22h, 15d. 22h, 20d. 4h, 26d. 22h, to the next set of lines downwards; implying retrograde motion of 1440°, and direct motion of 1440°.
Therefore the whole excess of retrograde motion in the month of February was 67½°.

1857. Feb. 28. 12. The direction of the wind was W.
March 31, 12. ,, ,, S.W., which implies a retrograde motion of 45°.
On March 3. 4, 3d. 22h, 10d. 22h, 20d. 22h, 28d, 22h, the trace was shifted to the next set of lines downwards; on March 1d. 0h, 19d. 22h, the trace was shifted to the next set of lines upwards; implying direct motion of 1800°, and retrograde motion of 720.°
Therefore the whole excess of direct motion in the month of March was 1035°.

1857. March 31, 12. The direction of the wind was S.W.
April 30, 12. ,, ,, N., which implies a direct motion of 135°.
On April 10. 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 495°.

1857. April 30. 12. The direction of the wind was N.
May 31. 12. ,, ,, N.E., which implies retrograde motion of 315°.
On May 1. 22, 11d. 22h, the trace was shifted to the next set of lines downwards; and on May 15d, 22h, to the second set downwards; implying direct motion of 1440°.
Therefore the whole excess of direct motion in the month of May was 1125°.

1857. May 31. 12. The direction of the wind was N.E.
June 30. 12. ,, ,, S.W., which implies a direct motion of 180°.
On June 13. 3, 26d. 22h, the trace was shifted to the next set of lines downwards; and on June 20d. 22h, 27d. 3h, to the second set downwards; on June 16d. 3h, 26d. 3h, 27d. 22h, the trace was shifted to the next set of lines upwards; implying direct motion of 2160°, and retrograde motion of 1080°.
Therefore the whole excess of direct motion in the month of June was 1260°.

1857. June 30. 12. The direction of the wind was S.W.
July 31. 12. ,, ,, S.W., which implies no change.
On July 2. 22, 14d. 3h, 29d. 3h, the trace was shifted to the next set of lines downwards; and on July 18d. 22h, the trace was shifted to the next set of lines upwards; implying direct motion of 1080°, and retrograde motion of 360°.
Therefore the whole excess of direct motion in the month of July was 720°.

1857. July $31^{d}.\ 12^{h}$. The direction of the wind was S.W.
Aug. 31. 12. ,, ,, S.W., which implies no change.
On Aug. 15. 22, the trace was shifted to the second set of lines downward, and on $22^{d}.\ 22^{h}$ to the next set downwards; on August $5^{d}.\ 22^{h}$, $13^{d}.\ 22^{h}$, $23^{d}.\ 22^{h}$, the trace was shifted to the second set of lines upwards; implying direct motion of 1080°, and retrograde motion of 1080°.
Therefore in the month of August there was on the whole no change.

1857. Aug. $31^{d}.\ 12^{h}$. The direction of the wind was S.W.
Sept. 30. 12. ,, ,, S.E., which implies apparent retrograde motion of 90°.
On Sept. 23. 22, the trace was shifted to the next set of lines downwards, implying direct motion of 360°.
Therefore the whole excess of direct motion in the month of September was 270°.

1857. Sept. $30^{d}.\ 12^{h}$. The direction of the wind was S.E.
Oct. 31. 12. ,, ,, S., which implies apparent direct motion of 45°.
On Oct. 17. 3, $25^{d}.\ 22^{h}$, the trace was shifted to the next set of lines downwards; on October $15^{d}.\ 22^{h}$, $19^{d}.\ 22^{h}$, the trace was shifted to the next set of lines upwards; implying direct motion of 720°, and retrograde motion of 720°.
Therefore the whole excess of direct motion in the month of October was 45°.

1857. Oct. $31^{d}.\ 12^{h}$. The direction of the wind was S.
Nov. 30. 12. ,, ,, S.S.E., which implies apparent retrograde motion of $22\frac{1}{2}°$.
On Nov. 19. 22, $29^{d}.\ 22^{h}$, the trace was shifted to the next set of lines downwards, implying direct motion of 720°.
Therefore the whole excess of direct motion in the month of November was $697\frac{1}{2}°$.

1857. Nov. $30^{d}.\ 12^{h}$. The direction of the wind was S.S.E.
Dec. 31. 12. ,, ,, S.E., which implies apparent retrograde motion of $22\frac{1}{2}°$.
Therefore the whole excess of retrograde motion in the month of December was $22\frac{1}{2}°$.

The whole excess of direct motion to the end of the year was $5287\frac{1}{2}°$.

On July 7 a revolution-counter was attached to the vertical spindle of the vane, consisting of wheel-work and a graduated circle divided into a hundred equal parts, whose reading increases with change of direction of the wind in the order N., E., S., W., &c., or in direct motion, and decreases with its change in the order N., W., S., E., &c., or in retrograde motion.

		rev.
On July $7^{d}.\ 0^{h}$	its reading was	0·00
July 31. 22	,, ...	0·90
Aug. 31. 22	,, ...	1·00
Sept. 30. 22	,, ...	1·50
Oct. 31. 22	,, ...	1·50
Nov. 30. 22	,, ...	3·20
Dec. 31. 22	,, ...	3·85

Between July 7^{d} and Dec. $31^{d}.\ 12^{h}$, the rack-work had been shifted 10 times implying direct motion, and 6 times implying retrograde motion.

AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1857.

1857, MONTH.	Monthly Amount of Rain collected in each Gauge.			
	Osler's Anemometer Gauge.	On the Roof of the Library.	Crosley's.	Cylinder partly sunk in the Ground.
	in.	in.	in.	in.
January	1·4	2·2	2·3	2·6
February	0·1	0·1	0·2	0·2
March	0·3	0·8	0·9	1·0
April	0·7	1·2	1·4	1·4
May	0·3	0·6	0·6	0·6
June	1·6	2·0	2·1	2·1
July	0·9	1·1	1·3	1·3
August	2·1	2·7	2·7	2·7
September	2·7	3·7	2·6	3·9
October	2·7	3·7	3·6	3·9
November	0·9	1·3	1·3	1·3
December	0·3	0·4	0·4	0·4
Sums	14·0	19·8	19·4	21·4

The heights of the receiving surfaces are as follows:

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