RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS

MADE AT

THE ROYAL OBSERVATORY, GREENWICH,

1858.

(EXTRACTED FROM THE GREENWICH OBSERVATIONS, 1858.)

ROYAL OBSERVATORY, GREENWICH.

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INDICATIONS

OF

MAGNETOMETERS.

1858.

The establishment of Assistants in the Magnetical and Meteorological Department of the Royal Observatory consisted during the year 1858, 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 1858, Telescope-Observations of the Magnetometers have usually been made four times every day, except on Sundays, on which days two or three observations only have been taken; but, though these observations are employed in forming the base-lines on the Photographic sheets, their immediate results are not necessarily given in the following pages.

Observations were made of the reading of the Horizontal Circle of the Theodolite by which the DECLINATION MAGNET is observed, corresponding to the Astronomical Meridian, on January 26, February 4, March 29, April 13, May 4, 18, July 21, August 26, 28, September 13, October 15, 30, November 10, 22, and December 20.

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 1857, December 29, 30, and 31.

Observations of the Angle of Torsion of the HORIZONTAL FORCE MAGNETOMETER were made on 1857, December 29, 30, and 31. The angle determined was 43°. 12′. 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 June 20, was $17^s{\cdot}2$; from June 21 to September 8, $18^s{\cdot}7$; from September 9 to December 10, $17^s{\cdot}3$; and from December 11 to the end of the year, $16^s{\cdot}1$. Observations for the time of vibration in a horizontal plane were made in 1853 on January 3 and 4, and the time was found to be $25^s{\cdot}0033$ from 10000 vibrations.

The values of the disturbing force, in terms of the whole vertical force, for one division of the scale, are inferred to be 0·001330 till June 20; 0·001125 from June 21 to September 8; 0·001314 from September 9 to December 10; and 0·001517 from December 11 to the end of the year: and these numbers have been used throughout their respective periods.

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

The methods adopted in the use of the Photographic Apparatus; in the determination of zeros, both for time and for magnetic indications; and in the translation into numbers of the indications given by the Photographic Traces for arbitrary times; are in every respect the same as those described in the Addendum to the Introduction to the *Greenwich Magnetical and Meteorological Observations*, 1847, pages lxxxiii to xc. The only important alterations that have been made are, that (as mentioned at the end of that Introduction) coal-gas charged with the vapour of coal-naphtha is used to give the light required for forming the Photographic Trace; and that the cylinders carrying the Photographic paper (both that which receives the traces of the Declination Magnet and the Horizontal Force Magnet, and that which receives the traces of the Vertical Force Magnet and the Barometer), are now made to revolve in 24^h. It may be mentioned also that, commencing with the year 1858, the observations are referred to Greenwich Mean Time instead of Göttingen Mean Time as heretofore.

It is proper to add, 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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
					(†)	1. 0	47 ·7	47 ·5
				1. 0	·01254*	3. 0	50 ·2	51 ·0
				1. 30	·01212	9. 0	52 ·0	52 ·5
				2. 14	·01138	21. 5	48 ·0	50 ·0
				4. 14	·00784			
				4. 41	·00807			
				7. 25	·00771			
				10. 22	·00778			
				10. 40	·00757			
				12. 15	·00747			
				16. 52	·00800			
				20. 13	·00890			
				23. 15	·01000			
				23. 45	·01004			
Jan. 2		Jan. 2		Jan. 2		Jan. 2		
0. 32	21. 37. 55	0. 30	·1086		(†)	1. 0	52 ·0	52 ·0
0. 54	38. 0	3. 2	·1094	1. 0	·00940*	3. 0	53 ·0	53 ·0
2. 29	36. 30	3. 51	·1106	3. 15	·00846	9. 0	52 ·1	52 ·5
2. 47	35. 40	4. 7	·1097	5. 40	·00790	22. 27	48 ·2	50 ·0
3. 58	34. 30	4. 29	·1104	6. 39	·00804			
4. 12	35. 5		***	6. 43	·00795			
4. 22	34. 10	5. 0	·1104	10. 12	·00798			
5. 9	36. 35		***	12. 40	·00837			
5. 23	36. 20	5. 44	·1088	23. 59	·01227			
5. 45	37. 20	6. 7	·1090					
5. 58	34. 40	6. 15	·1110					
6. 6	35. 5	6. 27	·1089					
6. 13	33. 10	6. 45	·1086					
6. 21	38. 35	6. 59	·1078					
6. 31	36. 15	7. 13	·1092					
6. 52	38. 10	7. 43	·1087					
7. 4	34. 15	8. 2	·1095					
7. 25	36. 0	9. 0	·1098					
7. 47	32. 20		***					
8. 1	32. 55	10. 2	·1090					
8. 48	32. 0		***					
9. 6	32. 30	15. 40	·1099					
9. 15	32. 0	18. 40:	·1107					
9. 26	32. 30	21. 0:	·1099					
10. 0	31. 40	23. 59	·1095					
10. 12	32. 10							
10. 29	31. 35							
10. 44	32. 10							
11. 0	31. 15							
11. 33	32. 55							
11. 47	31. 40							
13. 32	33. 30							
13. 55	33. 10							
14. 19	33. 50							
14. 30	33. 30							
16. 22	34. 10							
16. 51	33. 30							
17. 22	33. 40							
17. 36	33. 5							
17. 43	33. 40							
19. 38	31. 50							
21. 22	34. 0							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 2 h m	° ′ ″	h m		h m		Jan. 3 h m	°	°
22. 42	21. 35. 0							
22. 56	35. 25							
23. 38	34. 45							
23. 59	35. 55							
Jan. 3		Jan. 3		Jan. 3		Jan. 3		
0. 0	21. 36. 0	0. 0	·1095	0. 0	·01227	6. 26	46 ·2	47 ·6
0. 54	38. 30	2. 40	·1107	7. 0	·01497	21. 0	41 ·3	44 ·0
2. 42	36. 40	3. 43	·1112	8. 51	·01489			
3. 14	35. 15	4. 40	·1106	12. 43	·01424			
4. 4	35. 30	5. 55	·1118	17. 28	·01380			
4. 27	34. 0	6. 30	·1110	23. 0	·01400			
4. 43	33. 35	6. 52	·1112	23. 59	·01344			
5. 45	35. 10	7. 45	·1112					
5. 53	34. 50		***					
6. 26	37. 0	8. 15	·1099					
	***	8. 27	·1106					
7. 16	35. 30		***					
7. 41	36. 15	8. 57	·1104					
8. 21	28. 35	9. 10	·1114					
	***	9. 16	·1105					
8. 58	32. 0		***					
9. 15	32. 0	10. 40	·1119					
9. 22	31. 45	10. 55	·1116					
9. 36	32. 20	11. 15	·1122					
9. 58	30. 50	12. 0	·1124					
	***	14. 36	·1119					
11. 3	30. 40	15. 19	·1126					
11. 30	32. 30	16. 30:	·1122					
11. 48	32. 10		***					
12. 3	33. 0	17. 44	·1129					
12. 17	32. 30	18. 25	·1126					
12. 33	33. 10	18. 51	·1129					
12. 46	31. 30		***					
12. 53	31. 30	20. 25	·1127					
13. 16	28. 30		***					
13. 47	28. 45	22. 45	·1099					
14. 11	26. 40	23. 59	·1084					
14. 27	27. 25							
14. 49	26. 40							
15. 15	29. 15							
15. 32	28. 40							
15. 50	28. 45							
16. 20	30. 50							
16. 30	30. 5							
16. 58	30. 5							
17. 11	29. 5							
17. 15	33. 0							
17. 45	30. 30							
18. 45	31. 30							
	***							
19. 52	30. 0							
	***							
20. 1	33. 0							
	***							
20. 30	30. 45							
20. 51	32. 35							
21. 8	31. 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.

The Declination and Horizontal Force Magnets were under adjustment till January 2.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 3								
h m	° ′ ″	h m		h m		h m	°	°
21. 26	21. 33. 40							
21. 38	33. 20							
21. 54	34. 45							
23. 41	37. 40							
	(†)							
Jan. 4		Jan. 4		Jan. 4		Jan. 4		
	(†)	0. 0	·1084	0. 0	·01344	1. 0	45 ·0	46 ·2
			***					
0. 33	21. 36. 40			1. 30	·01220	3. 0	48 ·0	48 ·0
1. 14	38. 30	4. 13	·1103	6. 48:	·00741	9. 0	46 ·0	46 ·6
2. 15	37. 45	5. 0	·1112	9. 30	·00824	21. 0	37 ·0	40 ·0
2. 27	37. 0	6. 17	·1108	14. 21	·01177			
2. 51	36. 20	7. 25	·1116	15. 57	·01380			
			***					
2. 58	36. 30			22. 30	·01447			
3. 11	35. 50	8. 15	·1117		·01350			
4. 52	33. 40	9. 0	·1116	23. 21	·01360			
5. 27	33. 30	9. 32	·1139		(†)			
6. 0	33. 40	10. 0	·1126					
			***					
6. 22	32. 15							
7. 12	33. 30	10. 35	·1122					
			***					
8. 7	32. 45							
8. 18	33. 25	12. 25	·1125					
9. 3	31. 40	13. 15	·1128					
			***					
9. 17	26. 10							
	***	14. 25	·1126					
			***					
10. 30	32. 0							
11. 0	31. 45	18. 15	·1147					
	***	19. 13	·1144					
12. 52	33. 30	20. 15:	·1146					
13. 17	32. 50	21. 10	·1136					
	***	22. 30	·1137					
14. 52	34. 0	23. 59	·1134					
15. 19	33. 20							
16. 55	35. 30							
17. 13	34. 20							
	***							
20. 53	33. 20							
22. 22	33. 30							
23. 12	34. 0							
	***							
23. 59	36. 25							
Jan. 5		Jan. 5		Jan. 5		Jan. 5		
0. 0	21. 36. 25	0. 0	·1134		(†)	1. 0	39 ·9	41 ·5
	***		***	0. 52	·01330	3. 0	42 ·7	44 ·0
0. 27	35. 50	2. 44	·1124	2. 58	·01200	9. 0	42 ·3	42 ·7
0. 45	37. 15	2. 55	·1128	7. 21:	·00916	21. 8	37 ·0	39 ·5
1. 14	36. 40	3. 13	·1124	11. 28	·00904			
	***		***	16. 52	·00996			
2. 26	37. 25	4. 8	·1128	22. 25	·01258			
2. 42	36. 30	5. 15	·1138		(†)			
2. 54	37. 15		***					
3. 15	36. 0	6. 55	·1136					
	***		***					
5. 12	34. 10	7. 15	·1129					
6. 45	35. 30	7. 37	·1133					
7. 48	32. 35	7. 47	·1128					
8. 30	35. 30	8. 30	·1138					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 5		Jan. 5						
h m	° ′ ″	h m		h m		h m	°	°
9. 2	21. 35. 30	9. 0	·1135					
9. 30	31. 40	9. 29	·1139					
	(†)	9. 44	·1135					
10. 32	30. 40	10. 7	·1147					
10. 54	29. 50	10. 20	·1138					
11. 11	30. 40	11. 3	·1128					
11. 19	30. 5	12. 7	·1136					
11. 43	30. 30	12. 13	·1135					
12. 4	32. 20	13. 14	·1144					
12. 15	31. 40	13. 47	·1138					
12. 39	31. 35		***					
13. 5	32. 25	15. 50:	·1150					
			***					
13. 30	31. 10							
13. 53	32. 35	22. 25	·1140					
14. 7	31. 40		(†)					
14. 32	33. 40							
14. 55	32. 15							
15. 21	34. 0							
15. 39	32. 40							
15. 59	34. 35							
	***							
19. 12	33. 30							
19. 24	34. 30							
19. 42	33. 40							
20. 4	34. 30							
20. 18	34. 0							
20. 40	35. 0							
20. 53	34. 30							
21. 30	35. 30							
21. 46	34. 45							
22. 1	35. 40							
22. 18	35. 30							
23. 23	34. 15							
23. 42	35. 25							
23. 59	35. 35							
Jan. 6		Jan. 6		Jan. 6		Jan. 6		
0. 0	21. 35. 35		(†)		(†)	1. 0	39 ·0	40 ·0
0. 12	35. 35	0. 35	·1120	1. 0	·01292*	3. 0	40 ·9	41 ·0
0. 27	39. 25	0. 59	·1125	2. 28	·01305	9. 0	39 ·5	41 ·2
0. 49	37. 0	1. 7	·1118	7. 0	·01106	21. 5	36 ·0	38 ·0
1. 3	36. 30	1. 29	·1119	10. 15	·01115			
1. 22	39. 30		***	19. 55	·01346			
1. 30	38. 10	2. 0	·1128	22. 17	·01432			
1. 36	40. 0	2. 15	·1116		(†)			
1. 51	36. 30	2. 30	·1127					
			***					
2. 5	36. 35							
3. 14	34. 30	3. 30	·1132					
			***					
3. 52	34. 30							
4. 11	33. 45	6. 16	·1131					
			***					
4. 54	33. 30							
5. 30	34. 0	7. 53	·1134					
			***					
7. 25	32. 30							
7. 37	30. 40	8. 40	·1140					
			***					
8. 0	33. 25							
8. 19	31. 20	9. 35	·1124					
8. 30	31. 15	9. 59	·1132					
8. 56	34. 5	10. 15	·1128					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 6		Jan. 6						
h m	° ′ ″	h m		h m		h m	°	°
9. 12	21. 31. 30	10. 45	·1126					
10. 0	30. 45	12. 4	·1130					
10. 13	31. 30	12. 30	·1126					
10. 23	31. 15	14. 46	·1130					
10. 39	32. 0	17. 20	·1136					
12. 12	31. 55	19. 7:	·1142					
12. 47	33. 5		***					
13. 12	33. 10	23. 0	·1120					
13. 26	33. 30		(†)					
14. 11	33. 15							
14. 37	33. 35							
16. 26	32. 40							
17. 51	33. 20							
18. 18	32. 55							
20. 54	34. 30							
	***							
21. 26	37. 0							
21. 34	35. 30							
22. 26	35. 30							
22. 45	37. 0							
22. 54	36. 35							
23. 4	36. 45							
	(†)							
Jan. 7		Jan. 7		Jan. 7		Jan. 7		
	(†)		(†)		(†)	1. 0	38 ·0	42 ·0
0. 43	21. 36. 40	1. 30	·1118	1. 0	·01081*	3. 0	41 ·2	43 ·4
2. 12	36. 0	1. 46	·1114	3. 2	·00977	9. 0	41 ·7	42 ·4
2. 43	19. 20	3. 15	·1125	7. 57:	·00772	21. 8	41 ·7	44 ·2
2. 50	20. 20	3. 57	·1131	18. 7:	·00992			
3. 10	20. 15		***	22. 45	·00817			
3. 36	39. 40	8. 45	·1136		·00650			
3. 43	37. 5	10. 15	·1136	23. 45	·00667			
4. 12	37. 45	10. 44	·1142		·00745			
4. 47	37. 30	11. 0	·1136	23. 59	·00728			
5. 16	35. 20	11. 16	·1142					
	***	11. 44	·1134					
7. 36	32. 10	11. 57	·1140					
	***		***					
8. 28	33. 0	12. 40	·1136					
9. 5	29. 10	12. 59	·1129					
9. 14	31. 55	13. 35	·1133					
9. 30	32. 20		***					
9. 43	34. 0	16. 16	·1137					
10. 45	31. 45	16. 48	·1135					
11. 0	32. 40	18. 15	·1138					
11. 22	31. 0	19. 7	·1141					
11. 52	31. 40		***					
12. 40	28. 30	21. 23	·1134					
13. 5	28. 40	22. 30	·1120					
13. 28	23. 40	23. 0	·1120					
14. 12	21. 55	23. 45	·1114					
14. 45	21. 9. 40	23. 59	·1122					
16. 18	20. 59. 10							
	***							
17. 5	59. 20							
17. 19	20. 58. 15							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 7								
h m	° ′ ″	h m		h m		h m	°	°
17. 38	21. 0. 25							
	***							
20. 12	20. 58. 30							
20. 45	21. 0. 40							
21. 27	33. 0							
21. 45	32. 40							
22. 13	34. 20							
23. 12	34. 30							
23. 21	42. 45							
23. 29	41. 45							
23. 32	43. 30							
23. 55	41. 40							
23. 59	36. 30							
Jan. 8		Jan. 8		Jan. 8		Jan. 8		
0. 0	21. 36. 30	0. 0	·1123	0. 0	·00728	1. 0	45 ·5	47 ·2
0. 11	39. 35	0. 30	·1125	2. 32	·00797	3. 0	48 ·0	49 ·0
0. 15	35. 45		***		·00880	9. 10	50 ·3	51 ·2
	(†)	2. 4	·1124		***	21. 0	50 ·0	52 ·0
1. 22	36. 0	3. 15	·1121	5. 10	·00880			
1. 43	36. 30		***		·00990			
1. 52	52. 50	4. 10	·1156	7. 13	·01012			
1. 59	47. 30	4. 20	·1152		***			
2. 8	49. 30	4. 30	·1161	9. 30	·00931			
2. 12	47. 40	4. 55	·1134	9. 53	·00934			
2. 16	49. 35	5. 7	·1144	10. 11	·00906			
2. 30	46. 30	5. 20	·1118		·01020			
2. 57	48. 30	5. 38	·1130	10. 56	·00995			
	***		***		***			
3. 15	44. 50	6. 0	·1116	11. 50	·00870			
3. 30	32. 10	6. 15	·1108	12. 12	·00743			
3. 34	36. 45		***	12. 30	·00476			
3. 41	32. 45	6. 54	·1107	12. 43	·00490			
4. 27	30. 30	7. 11	·1120	12. 58	·00628			
4. 44	32. 40	7. 27	·1108	13. 15	·00630			
5. 0	31. 0	7. 43	·1118	13. 51	·00747			
5. 12	32. 20	7. 46	·1114	14. 45	·00858			
6. 29	31. 10	7. 50	·1119	16. 40	·00963			
7. 5	28. 15	8. 14	·1113	17. 30	·00924			
7. 21	28. 55	8. 30	·1116	17. 45	·00956			
7. 36	26. 45	8. 40	·1105		***			
9. 0	28. 55	8. 57	·1116	19. 0	·00948			
9. 36	9. 20	9. 7	·1111	19. 11	·01038			
10. 0	11. 5	9. 29	·1113	19. 27	·00972			
10. 50	2. 30	9. 36	·1100	19. 40	·01013			
11. 29	7. 30	9. 52	·1114	19. 58	·01014			
11. 45	6. 20	10. 3	·1100		***			
11. 57	2. 20		***	20. 40	·01080			
12. 13	11. 15	10. 43	·1078		***			
12. 28	8. 20		***	20. 43	·01027			
12. 39	11. 0	11. 10	·1090	21. 15	·01092			
13. 20	7. 30	11. 18	·1078		(†)			
13. 55	8. 50	11. 30	·1082					
14. 13	11. 15	11. 42	·1072					
14. 50	10. 55	12. 1	·1018					
15. 0	9. 55	12. 16	·1100					
16. 12	10. 0	12. 31	·1052					
16. 36	12. 20	12. 45	·1093					

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

January 7^{d}. 14^{h}. No reason can be assigned for the great decrease in the Declination about this time; the magnet assumed its ordinary reading again at about 21^{h}.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 8		Jan. 8						
h m	° ′ ″	h m		h m		h m	°	°
16. 44	21. 11. 0	13. 0	·1071					
16. 54	12. 0	13. 10	·1061					
17. 7	10. 30	13. 34	·1083					
17. 13	13. 50		***					
	***	14. 20	·1070					
17. 39	7. 35		***					
17. 52	13. 0	15. 20	·1100					
17. 56	9. 30	16. 15	·1105					
17. 59	15. 55	16. 35	·1113					
18. 12	8. 25		***					
18. 24	15. 10	17. 5	·1098					
18. 43	11. 30	17. 25	·1132					
19. 24	5. 10		***					
	***	17. 50	·1108					
20. 13	12. 5		***					
20. 24	26. 10	18. 15	·0988					
20. 40	14. 0	18. 30	·1107					
20. 45	21. 10	18. 44	·1055					
20. 47	16. 20	19. 2	·1100					
20. 56	21. 55	19. 16	·1088					
21. 5	21. 0	19. 30	·1108					
	***	19. 32	·1075					
21. 30	28. 10		***					
21. 39	39. 0	19. 58	·1148					
21. 58	39. 30	20. 12	·0972					
22. 0	42. 40		***					
22. 9	21. 41. 50	20. 30	·1074					
22. 14	22. 0. 45		***					
	(†)	21. 8	·1106					
23. 15	22. 0. 5		***					
23. 45	21. 54. 30	22. 15	·1051					
23. 54	56. 0	22. 30	·1071					
23. 59	52. 15	23. 59	·1087					
Jan. 9		Jan. 9		Jan. 9		Jan. 9		
0. 0	21. 52. 15	0. 0	·1087	0. 0	·01960	1. 0	52 ·0	51 ·9
0. 8	52. 20		***	2. 0	·01858	3. 0	53 ·2	53 ·3
0. 26	47. 30	0. 40	·1089		·01910	9. 10	54 ·3	54 ·5
0. 39	51. 45	1. 27	·1083	5. 52	·01864	22. 20	47 ·0	47 ·5
0. 50	50. 5	2. 40	·1088	9. 51:	·01837			
	(†)	3. 0	·1086	16. 15	·02322			
1. 40	36. 40		***	21. 1	·02244			
	***	4. 25	·1094	23. 21	·02270			
3. 0	33. 30	6. 30	·1092		·02160			
3. 30	33. 0	10. 45	·1101	23. 59	·02137			
4. 25	34. 0	12. 7	·1104					
	***	16. 0	·1110					
7. 15	33. 35	19. 45:	·1118					
8. 30	34. 25		***					
11. 0	34. 55	21. 40	·1109					
15. 40	34. 0	23. 59	·1098					
18. 0	34. 0							
	***							
19. 45	33. 0							
20. 17	35. 0							
20. 25	34. 10							
21. 0	36. 25							
21. 25	35. 20							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 9								
h m	° ′ ″	h m		h m		h m	°	°
21. 57	21. 36. 30							
22. 30	41. 0							
23. 59	38. 30							
Jan. 10		Jan. 10		Jan. 10		Jan. 10		
0. 0	21. 38. 30	0. 0	·1098	0. 0	·02137	9. 0	49 ·0	51 ·0
0. 25	38. 10		***	2. 0	·02040	21. 6	50 ·3	51 ·8
	***	0. 55	·1111	6. 39	·01760			
1. 0	41. 35		***	8. 52	·01685			
1. 18	39. 25	1. 46	·1106		·01740			
2. 5	37. 5		***	12. 23	·01683			
2. 30	37. 30	2. 23	·1111	21. 15	·01710			
2. 45	35. 20	2. 44	·1106		·01754			
4. 0	34. 0	3. 0	·1109	23. 12	·01757			
4. 15	32. 50	3. 15	·1107	23. 59	·01780			
4. 45	33. 0	3. 45	·1108					
5. 7	31. 30	4. 14	·1102					
	***	4. 28	·1106					
5. 28	32. 55	4. 43	·1106					
5. 55	32. 0	5. 40	·1110					
6. 23	34. 30	5. 55	·1116					
6. 45	33. 30	6. 14	·1118					
7. 25	33. 40	6. 30	·1114					
7. 42	31. 55	6. 45	·1116					
	***	7. 30	·1110					
8. 28	33. 15		***					
9. 13	32. 0	8. 28	·1118					
9. 30	33. 0	9. 43	·1110					
9. 47	32. 0		***					
10. 15	33. 25	10. 7	·1115					
10. 40	32. 20	10. 20	·1112					
11. 58	34. 40	10. 58	·1113					
	***	11. 4	·1116					
12. 56	33. 0	11. 16	·1114					
	***	11. 45	·1130					
14. 45	34. 30	12. 7	·1118					
15. 10	33. 30	12. 45	·1115					
15. 55	34. 50		***					
	***	15. 32	·1114					
17. 7	33. 40	16. 30	·1117					
	***	17. 30	·1119					
20. 35	33. 30	18. 0	·1116					
	(†)	19. 0:	·1118					
22. 50	37. 0	20. 30	·1106					
	***	20. 46	·1106					
23. 59	40. 30		(†)					
		23. 0	·1090					
			***					
		23. 59	·1080					
Jan. 11		Jan. 11		Jan. 11		Jan. 11		
0. 0	21. 40. 30	0. 0	·1080	0. 0	·01780	1. 0	53 ·2	53 ·0
0. 40	40. 0		***	2. 0	·01837	3. 0	54 ·8	55 ·0
2. 25	37. 30	1. 45	·1094		·01960	9. 0	52 ·9	52 ·9
2. 52	35. 30	2. 37	·1092	8. 3:	·01837	21. 0	42 ·9	44 ·2
3. 44	34. 30		***	14. 14	·02287			
4. 15	33. 40	8. 25	·1110	22. 11	·02150			
			***					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 11		Jan. 11		Jan. 11				
h m	° ′ ″	h m		h m		h m	°	°
4. 34	21. 34. 15	9. 17	·1104	23. 15	{·02167			
4. 55	33. 10	10. 24	·1116		{·02030			
5. 55	35. 0	10. 45	·1114	23. 59	·02037			
	***	11. 2	·1116					
6. 50	35. 0	11. 38	·1113					
9. 16	33. 15	12. 56	·1122					
9. 45	35. 5	13. 7	·1120					
	***	15. 45	·1123					
11. 22	34. 35	17. 15	·1129					
	***	18. 10	·1128					
12. 34	39. 0	18. 46:	·1132					
	***	19. 35	·1127					
18. 0	35. 5	20. 0	·1120					
	***	20. 27	·1126					
20. 0	38. 0	22. 30	·1107					
	***	23. 59	·1107					
21. 0	33. 35							
	***							
23. 27	38. 0							
23. 50	37. 15							
	(†)							
Jan. 12		Jan. 12		Jan. 12		Jan. 12		
	(†)	0. 0	·1107	0. 0	·02037	1. 0	45 ·2	46 ·0
0. 10	21. 36. 0	1. 0	·1108	1. 48	·01960	3. 0	48 ·2	48 ·5
	***	1. 53	·1104	3. 39	·01705	9. 0	49 ·0	49 ·2
1. 35	37. 30	2. 5	·1095	4. 45	·01728	21. 7	46 ·0	47 ·0
3. 0	35. 0	3. 20	·1106	10. 25	·01646			
6. 1	32. 5	5. 15	·1109	21. 0	·01858			
6. 18	30. 0	5. 53	·1107	23. 30	·01890			
6. 45	33. 0	6. 7	·1102	23. 59	·01886			
7. 30	33. 50	7. 7	·1107					
8. 58	25. 0		***					
9. 57	30. 30	8. 20	·1103					
10. 53	29. 35		***					
11. 9	31. 20	9. 15	·1112					
12. 25	31. 5		***					
13. 25	34. 0	10. 15	·1106					
13. 55	34. 0		***					
14. 26	32. 0	11. 28	·1107					
15. 0	33. 50	12. 5	·1119					
15. 25	33. 40	13. 30:	·1113					
16. 0	35. 5		***					
16. 55:	33. 0	15. 50	·1122					
18. 30	38. 0	16. 7	·1117					
18. 53	37. 20	16. 35	·1126					
19. 8	38. 40	17. 15	·1124					
19. 35	37. 55	18. 1	·1126					
20. 0	35. 40	18. 20	·1120					
20. 59	36. 50	18. 45	·1124					
21. 30	35. 0	19. 28	·1118					
	***	19. 58	·1120					
22. 13	38. 30	21. 15	·1100					
	***	22. 45	·1097					
23. 0	39. 5	23. 5	·1084					
23. 30	44. 0	23. 59	·1104					
	(†)							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 13		Jan. 13		Jan. 13		Jan. 13		
h m	° ′ ″ (†)	h m		h m		h m	°	°
0. 15	21. 41. 0	0. 0	·1104	0. 0	·01886	1. 0	49 ·0	49 ·0
0. 25	41. 40	0. 30	·1092		{·01714	3. 0	50 ·8	51 ·0
0. 38	40. 10	0. 59	·1098	1. 40	{·01800	9. 0	50 ·0	50 ·7
0. 50	42. 35	1. 40	·1099		***	21. 0	42 ·0	44 ·0
0. 55	42. 0		***	8. 15	·01788			
1. 18	42. 30	2. 25	·1087	11. 0	·01823			
1. 26	43. 30	3. 0	·1104	11. 52	·01869			
2. 3	41. 55	3. 20	·1108	12. 13	·01867			
2. 34	37. 0	3. 32	·1102	13. 45	·01978			
3. 11	37. 20		***	16. 28	·02242			
3. 28	38. 20	4. 30	·1098	21. 54	·02164			
3. 43	37. 0	4. 47	·1107	23. 59	·02203			
3. 53	37. 0		***					
4. 11	35. 30	5. 15	·1106					
4. 57	29. 10	5. 40	·1092					
5. 7	30. 45	6. 5	·1104					
5. 12	30. 30	6. 28	·1106					
5. 31	36. 0	6. 40	·1094					
5. 50	31. 55	6. 59	·1092					
6. 11	33. 50	7. 7	·1087					
6. 30	39. 0	7. 30	·1098					
6. 41	38. 30	7. 40	·1092					
6. 58	39. 10	8. 5	·1109					
7. 20	32. 30	8. 15	·1094					
7. 28	32. 35	8. 29	·1094					
7. 44	22. 0	8. 45	·1100					
7. 55	28. 0	9. 14	·1096					
8. 21	28. 0	9. 59	·1110					
9. 3	33. 30	10. 30	·1104					
9. 42	33. 5	11. 0	·1112					
9. 58	35. 30	11. 29	·1109					
10. 26	33. 45	11. 40	·1127					
10. 49	30. 50	11. 50	·1122					
11. 23	32. 55	12. 15	·1128					
11. 43	37. 0	12. 45	·1108					
12. 0	32. 0	13. 15	·1110					
	***	13. 35	·1116					
12. 42	34. 45		***					
12. 56	36. 30	14. 7	·1114					
13. 16	35. 15	14. 45	·1117					
13. 39	37. 0	17. 5	·1124					
14. 9	35. 15	20. 0	·1124					
14. 30	36. 20		***					
	***	20. 40	·1126					
19. 48	34. 20	21. 5	·1124					
	***	22. 20	·1104					
20. 52	34. 0	22. 45	·1104					
22. 21	37. 25	23. 59	·1108					
23. 13	37. 30							
23. 59	34. 45							
Jan. 14		Jan. 14		Jan. 14		Jan. 14		
0. 0	21. 34. 45	0. 0	·1108	0. 0	·02203	1. 0	44 ·3	45 ·0
0. 43	36. 40	0. 10	·1110	2. 15:	·02150	3. 0	47 ·2	47 ·3
1. 0	36. 20	2. 15	·1116	6. 25	·01646	9. 0	48 ·0	48 ·6
2. 13	35. 30	3. 40	·1112	13. 48	·01624	21. 0	42 ·2	43 ·0
3. 45	33. 0	5. 5	·1114	15. 30	·01607			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 14		Jan. 14		Jan. 14				
h m	° ′ ″	h m		h m		h m	°	°
6. 52	21. 32. 40	6. 0	·1116	20. 30	·01649			
8. 31	32. 0	8. 0	·1114	23. 59	·01710			
10. 26	33. 10	13. 16	·1124					
11. 33	32. 45	13. 30	·1137					
13. 33	33. 50	13. 32	·1133					
13. 45	36. 30	14. 6	·1126					
13. 56	36. 55	14. 15	·1130					
14. 15	36. 0	14. 29	·1126					
14. 26	34. 0	14. 45	·1135					
14. 44	32. 25	15. 0	·1124					
15. 5	33. 10	15. 7	·1131					
15. 17	29. 0	15. 17	·1125					
15. 28	30. 5	16. 6	·1120					
16. 5	29. 45	16. 30	·1124					
16. 25	30. 40		***					
	***	18. 15	·1133					
18. 0	30. 55	18. 30	·1130					
18. 18	29. 10	19. 29	·1130					
18. 47	29. 30	19. 40	·1120					
18. 58	30. 45	20. 15	·1130					
19. 13	29. 10	22. 35	·1114					
19. 30	28. 45	23. 10	·1123					
19. 40	31. 0	23. 59	·1114					
19. 45	30. 0							
19. 51	30. 20							
19. 58	29. 15							
20. 12	31. 55							
20. 30	31. 5							
20. 37	32. 50							
21. 7	32. 0							
	***							
22. 51	33. 30							
23. 8	35. 0							
	***							
23. 59	36. 5							
Jan. 15		Jan. 15		Jan. 15		Jan. 15		
0. 0	21. 36. 5	0. 0	·1114	0. 0	·01710	1. 0	43·8	44·0
0. 8	35. 30	2. 0	·1110	2. 10:	·02110	3. 0	45·5	46·0
0. 45	37. 20	3. 0	·1103	4. 42	·01700	9. 0	48·5	48·5
3. 22	35. 30	4. 5	·1100	9. 40:	·01633	21. 0	46·2	47·2
3. 52	34. 20	5. 45:	·1107	18. 52	·02177			
4. 40	34. 20		***	21. 22	·02128			
6. 3	33. 0	7. 45	·1107	22. 45	·02157			
6. 26	33. 5	8. 30	·1109		(†)			
6. 41	32. 50	9. 2	·1107					
7. 38	33. 40	10. 30	·1124					
8. 41	33. 55	14. 0	·1119					
8. 58	33. 30	14. 30	·1124					
10. 28	33. 5	15. 14	·1124					
13. 30	35. 30		***					
14. 0	37. 0	19. 35:	·1130					
14. 40	35. 30	22. 15	·1110					
17. 54	34. 55	22. 45	·1117					
20. 29	31. 15		(†)					
22. 19	34. 20							
	(†)							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
	(†)		(†)		(†)	1. 0	49·0	49·0
0. 50	21. 37. 20	1. 0	·1114	0. 54	·01667	3. 0	51·8	51·2
4. 9	33. 15	2. 30	·1108	3. 26	·01800	9. 0	50·0	50·0
5. 13	32. 35	3. 15	·1112	5. 49	·01740	22. 34	44·0	46·0
7. 9	34. 20	3. 50	·1112	6. 0	·01837			
7. 30	33. 30	4. 30	·1117	7. 12	·01827			
9. 28	33. 35	4. 55	·1114	12. 50	·02017			
	***		***	17. 30	·02296			
12. 12	32. 30	5. 52	·1117	23. 59	·02244			
12. 34	34. 0	6. 15	·1113					
	***	6. 45	·1118					
14. 51	34. 30		***					
15. 15	33. 40	7. 25	·1116					
15. 40	33. 40	8. 0:	·1118					
16. 7	35. 0		***					
16. 26	33. 45	9. 19	·1115					
16. 47	35. 30	9. 25	·1118					
17. 17	33. 45	10. 14	·1116					
18. 40	33. 20	10. 20	·1121					
19. 33	33. 25	10. 30	·1117					
20. 0	33. 0		***					
20. 53	33. 20	11. 45	·1117					
21. 8	32. 55	11. 52	·1126					
21. 34	33. 20	12. 0	·1120					
21. 57	35. 0	12. 27	·1117					
22. 15	35. 30	12. 50	·1123					
22. 29	35. 5		***					
22. 46	37. 5	13. 45	·1120					
23. 4	36. 5	14. 0	·1122					
23. 27	35. 5	14. 10	·1126					
23. 46	35. 5	14. 15	·1122					
23. 53	36. 25		***					
23. 59	36. 0	15. 7	·1126					
			***					
		15. 50	·1123					
			***					
		16. 30	·1125					
			***					
		18. 0	·1122					
		19. 48	·1122					
		20. 45	·1118					
		21. 45	·1121					
		22. 35	·1122					
		23. 59	·1110					
Jan. 17		Jan. 17		Jan. 17		Jan. 17		
0. 0	21. 36. 0	0. 0	·1110	0. 0	·02244	6. 28	43·0	45·0
1. 37	37. 55	1. 15	·1123	6. 52	·02287	21. 0	39·8	41·5
1. 55	37. 35	2. 25	·1122	7. 12	·02326			
2. 11	39. 15	2. 36	·1114	9. 40	·02249			
2. 36	38. 35	3. 15	·1108	11. 0	·02247			
2. 52	40. 0	3. 37	·1118	13. 14	·02180			
3. 23	38. 10	3. 53	·1118	16. 11	·02146			
3. 45	38. 40	4. 8	·1125	21. 30	·02150			
3. 56	36. 50	4. 45	·1112		·02038			
4. 26	37. 30	5. 2	·1118	23. 59	·02067			
4. 52	34. 10	5. 10	·1117					
5. 0	35. 0	5. 30	·1126					
			***					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 17		Jan. 17						
h m	° ′ ″	h m		h m		h m	°	°
5. 13	21. 33. 35	6. 30	·1124					
5. 29	36. 50	6. 53	·1106					
6. 0	37. 40	7. 15	·1106					
6. 29	32. 30	7. 28	·1117					
6. 41	33. 0	7. 40	·1104					
7. 4	23. 30	7. 52	·1118					
7. 12	23. 45	8. 0	·1104					
7. 31	21. 30	8. 25	·1114					
7. 34	27. 30	8. 32	·1113					
7. 44	25. 15	8. 46	·1118					
7. 53	33. 30	9. 0	·1117					
8. 4	32. 0	9. 33	·1131					
8. 14	32. 50	9. 42	·1124					
8. 26	32. 45	9. 45	·1128					
8. 41	30. 45	10. 2	·1114					
9. 18	32. 50	10. 45	·1117					
9. 30	35. 5	11. 10	·1130					
9. 45	30. 45	11. 20	·1126					
9. 57	33. 40		***					
10. 28	29. 5	11. 50	·1130					
11. 16	33. 40	12. 5	·1126					
11. 30	32. 0	12. 25	·1136					
11. 52	30. 30	13. 0	·1132					
12. 4	32. 30	13. 17	·1139					
12. 16	31. 0	14. 27	·1129					
12. 41	33. 10	15. 10	·1129					
13. 9	30. 30	15. 33	·1135					
13. 33	32. 0	15. 45	·1130					
13. 44	31. 0	16. 45	·1134					
14. 25	31. 10	17. 30	·1129					
14. 43	32. 10	18. 0	·1130					
15. 19	29. 55	19. 50	·1132					
15. 52	33. 25	20. 40	·1128					
16. 19	30. 30	21. 0	·1130					
16. 36	32. 30	22. 0	·1115					
17. 26	33. 40	22. 45	·1112					
17. 40	33. 20	23. 55	·1114					
19. 39	34. 0							
20. 11:	33. 25							
21. 51	37. 10							
22. 44	37. 40							
23. 0	39. 30							
23. 33	38. 55							
23. 59	37. 50							
Jan. 18		Jan. 18		Jan. 18		Jan. 18		
0. 0	21. 37. 50	0. 0	·1116	0. 0	·02067	1. 0	42 ·8	43 ·5
0. 43	38. 35	0. 55	·1118	0. 59	{·02017	3. 0	46 ·4	46 ·8
0. 57	40. 40	1. 40	·1112		{·01937	9. 0	49 ·5	50 ·0
2. 9	37. 50		***	3. 0	{·01700	21. 0	44 ·2	45 ·2
2. 18	38. 10	3. 15	·1114		{·01926			
2. 42	37. 10	3. 30	·1109	4. 21	·01747			
3. 14	37. 15	4. 0	·1108	10. 42	·01672			
4. 30	33. 45	4. 45	·1111	14. 25:	·01720			
4. 39	34. 0	5. 7	·1115	22. 56	·02228			
4. 53	33. 45	5. 30	·1112	23. 59	·02210			
5. 15	34. 20	6. 15	·1112					
7. 39	32. 40	8. 0	·1108					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
10. 1	21. 33. 15	9. 7	·1109					
10. 13	34. 0	10. 5	·1108					
10. 48	28. 25	10. 30	·1104					
11. 30	32. 35	11. 0	·1112					
12. 15	33. 30	11. 22	·1105					
12. 31	32. 30	11. 45	·1100					
	***	12. 0	·1108					
13. 45	34. 30	12. 27	·1114					
14. 4	33. 40	12. 40	·1110					
14. 40	34. 30		***					
14. 59	33. 20	14. 55	·1117					
15. 43	35. 5	15. 30	·1114					
16. 4	34. 15		***					
16. 26	34. 40	17. 45	·1124					
17. 12	33. 35	18. 15	·1120					
17. 30	34. 30	19. 17	·1122					
18. 59	32. 40	19. 45	·1126					
20. 28	33. 30	20. 30:	·1120					
20. 57	32. 0	22. 15	·1100					
21. 42	34. 15		***					
21. 51	34. 0	23. 15	·1100					
22. 29	36. 30	23. 45	·1108					
22. 51	36. 15		(†)					
23. 13	37. 30							
23. 32	37. 30							
	(†)							
Jan. 19		Jan. 19		Jan. 19		Jan. 19		
	(†)		(†)	0. 0	·02210	1. 0	47 ·2	47 ·4
0. 8	21. 37. 30	0. 15	·1108	1. 11	·02157	3. 0	50 ·0	49 ·7
0. 29	36. 50		***	3. 40	·01788	9. 0	50 ·5	50 ·0
1. 30	38. 30	1. 5	·1108	6. 24	{·01775	21. 0	48 ·5	49 ·4
2. 12	36. 0	2. 40	·1095		{·01940			
2. 38	36. 30	4. 15:	·1105	7. 54	·01870			
3. 19	33. 40	7. 30	·1105	9. 52	·01904			
5. 45	32. 30	9. 0	·1109	16. 56	·02124			
7. 30	33. 10	13. 30	·1114	22. 39	·02176			
8. 58	32. 30	17. 0	·1121	23. 49	·02156			
14. 42	33. 35	20. 0:	·1120		(†)			
15. 12	32. 50	23. 59	·1093					
15. 56	33. 5							
17. 52	32. 30							
18. 39	32. 30							
20. 37	30. 55							
21. 40	31. 0							
23. 59	36. 50							
Jan. 20		Jan. 20		Jan. 20		Jan. 20		
0. 0	21. 36. 50	0. 0	·1093		(†)	1. 0	51 ·0	50 ·8
0. 16	37. 5		***	0. 14	·02130	3. 0	53 ·5	51 ·5
0. 27	38. 0	2. 0	·1098	0. 58	{·02050	9. 0	52 ·2	53 ·2
1. 7	37. 25	2. 15	·1096		{·02116	21. 0	43 ·4	45 ·0
1. 33	37. 30		***	2. 51	·01917			
2. 58	34. 30	3. 4	·1102	3. 54	{·01877			
3. 41	34. 10		***		{·02010			
4. 54	35. 30	6. 0	·1094	5. 15	·01976			
5. 45	37. 55	6. 47	·1100	7. 13	·02048			
6. 30	33. 45	7. 15	·1100	9. 51	·02196			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 20		Jan. 20		Jan. 20				
h m	° ′ ″	h m		h m		h m	°	°
8. 59	21. 31. 55	7. 30	·1102	10. 16	·02200			
9. 31	26. 0	8. 0	·1101	13. 7	·02349			
10. 8	30. 5	9. 10	·1105	23. 30	·02203			
10. 40:	28. 40	9. 40	·1117	23. 59	·02217			
11. 20	31. 0	10. 8	·1102					
13. 3	32. 0	10. 30	·1106					
13. 13	33. 20	11. 30	·1110					
15. 25	33. 20	12. 0	·1108					
15. 45	35. 0	12. 30	·1111					
16. 30	31. 15		***					
19. 13	33. 0	13. 10	·1110					
20. 36	32. 35	13. 29	·1114					
21. 21	31. 0	15. 25	·1114					
21. 54	32. 30	16. 0	·1120					
22. 22	32. 35	16. 45	·1118					
23. 2	35. 15	19. 0	·1126					
23. 59	37. 30	20. 45	·1120					
		21. 0	·1116 (†)					
Jan. 21		Jan. 21		Jan. 21		Jan. 21		
0. 0	21. 37. 30	0. 10	·1112	0. 0	·02217	1. 0	45 ·3	45 ·7
0. 41	36. 45		***	1. 36	·02217	3. 0	48 ·0	47 ·4
1. 4	37. 50	3. 45	·1116	9. 45:	·01640	9. 0	48 ·2	48 ·4
2. 47	34. 35		***	18. 43	·02183	21. 0	41 ·0	43 ·0
3. 7	33. 30	7. 45	·1127	23. 59	·02150			
4. 11	32. 5		***					
7. 45	32. 30	12. 45	·1140					
8. 4	31. 30	13. 0	·1136					
11. 40	34. 25	13. 15	·1136					
13. 7	32. 30	13. 35	·1142					
14. 40	35. 30	15. 0	·1142					
	***	17. 0	·1147					
17. 45	33. 30	20. 0:	·1156					
18. 7	33. 50		***					
	***	22. 0	·1136					
20. 11	32. 30	23. 0	·1131					
22. 8	36. 45	23. 59	·1127					
22. 41	36. 25							
23. 37	37. 45							
23. 59	36. 30							
Jan. 22		Jan. 22		Jan. 22		Jan. 22		
0. 0	21. 36. 30	0. 0	·1127	0. 0	·02150	1. 0	44 ·4	44 ·6
0. 45	37. 30	1. 30	·1128	2. 27	·01964	3. 0	46 ·8	47 ·0
1. 13	36. 55	1. 50	·1124	5. 17	·01628	9. 0	46 ·5	48 ·0
3. 38	34. 0	2. 31	·1126	7. 53	·01607	21. 0	41 ·7	43 ·5
4. 26	34. 10	2. 45	·1122		·01738			
4. 40	33. 20	3. 30	·1122	11. 22	·01786			
5. 12	34. 15	4. 30	·1127	13. 11	·01865			
5. 31	32. 25	4. 45	·1122	14. 15	·01902			
5. 39	32. 45	5. 20	·1126	16. 55	·02048			
5. 54	31. 30	5. 45	·1124	19. 52	·02187			
6. 17	34. 20	6. 20	·1124	20. 7	·02170			
6. 30	33. 40	7. 0:	·1131	23. 59	·02180			
8. 10	33. 40		***					
9. 4	32. 50	10. 0	·1132					
9. 22	32. 20		***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 22		Jan. 22						
h m	° ′ ″	h m		h m		h m	°	°
9. 45	21. 32. 50	11. 30	·1138					
10. 8	31. 40	12. 40	·1138					
10. 43	33. 0	13. 10	·1150					
11. 51	32. 50	13. 40	·1147					
12. 34	32. 10	13. 55	·1151					
13. 17	34. 30	14. 15	·1143					
14. 16	30. 5	16. 0	·1140					
14. 52:	32. 30	16. 45	·1143					
15. 42	30. 45	17. 33	·1143					
17. 24	34. 0	18. 5	·1149					
17. 57	33. 15	19. 20	·1144					
18. 47	33. 50		***					
	***	20. 15	·1150					
21. 3	33. 0	20. 30	·1144					
	***	20. 45	·1146					
23. 12	35. 0		***					
	***	21. 40	·1132					
23. 59	35. 20	22. 45	·1128					
		23. 39	·1126					
Jan. 23		Jan. 23		Jan. 23		Jan. 23		
0. 0	21. 35. 20	0. 0	·1126	0. 0	·02180	1. 0	44 ·3	45 ·2
0. 43	35. 30	1. 35	·1122	1. 43	·02090	3. 0	47 ·0	47 ·0
1. 2	36. 40	2. 45	·1124	3. 22	·01933	9. 0	47 ·3	47 ·6
4. 42	32. 45	3. 10	·1128	4. 25	·01760	22. 20	38 ·0	40 ·8
5. 58	32. 40	3. 34	·1127	5. 58	·01607			
	***	4. 45	·1130	6. 52	·01607			
11. 4	34. 30	5. 17	·1130	6. 58	·01663			
12. 40	33. 40	7. 15	·1134	11. 52:	·01766			
12. 51	35. 0	12. 17	·1144	16. 21	·02150			
13. 11	33. 55	12. 45	·1143	23. 59	·02052			
14. 47	34. 55	12. 59	·1148					
16. 13	34. 30		***					
18. 28	35. 30	15. 0	·1147					
19. 15	34. 10	18. 0	·1156					
19. 52	35. 0	20. 10:	·1164					
20. 53:	34. 15	22. 10	·1162					
22. 38	37. 20	23. 59	·1157					
22. 51	35. 30							
23. 59	36. 40							
Jan. 24		Jan. 24		Jan. 24		Jan. 24		
0. 0	21. 36. 40	0. 0	·1157	0. 0	·02052	6. 40	40 ·2	42 ·4
0. 45	36. 0	1. 5	·1153	2. 0	·02054	21. 0	35 ·0	37 ·0
1. 51	36. 40	3. 45	·1158	10. 25:	·01695			
4. 30	33. 20	7. 10	·1160	18. 14	·02050			
	***	7. 50	·1158		·02024			
8. 8	32. 50		***	19. 52	·02020			
	***	10. 5	·1156		·01930			
14. 53	33. 40	11. 0	·1154	20. 45	·01987			
15. 15	37. 0		***	23. 0	·01942			
15. 55	32. 25	13. 0	·1157	23. 59	·01882			
16. 32	35. 25	13. 30	·1161					
17. 1	33. 35		***					
	***	14. 15	·1158					
18. 7	34. 30	14. 35	·1161					
	***	15. 20	·1158					
19. 48	31. 30	15. 44	·1164					
	***							

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
21. 27	21. 33. 30	16. 29	·1157					
21. 40	34. 45	17. 10	·1167					
	***		***					
22. 20	35. 30	19. 30	·1170					
22. 44	37. 25	21. 45	·1147					
23. 18	37. 25	22. 10	·1136					
	(†)	22. 35	·1130					
		23. 30	·1130					
			(†)					
Jan. 25		Jan. 25		Jan. 25		Jan. 25		
	(†)		(†)	0. 0	·01882	1. 0	39 ·4	41 ·0
0. 43	21. 36. 50	0. 40	·1128	2. 30	·01557	3. 0	43 ·3	44 ·0
1. 13	34. 55	1. 8	·1128	4. 10	·01638	9. 0	45 ·0	46 ·2
	***	1. 45	·1134	9. 48	·01584	21. 0	38 ·0	40 ·8
5. 11	30. 40		***	15. 0	·01738			
6. 0	30. 40	3. 5	·1128	20. 50	·02177			
6. 43	31. 45		***	21. 21	·02150			
	***	5. 10:	·1137	23. 59	·02168			
7. 38	31. 40		***					
8. 8	32. 55	7. 15	·1128					
8. 29	32. 15		***					
8. 43	33. 25	8. 0	·1129					
13. 24	32. 10	8. 16	·1136					
14. 10	33. 55	8. 30	·1134					
	***	9. 6	·1140					
19. 24	33. 30	10. 7	·1146					
	***	10. 20	·1144					
20. 56	32. 30	12. 0	·1150					
22. 3	33. 25	12. 30	·1149					
22. 23	35. 0	13. 7	·1154					
22. 52	34. 50	14. 7	·1152					
23. 59	34. 0	15. 5	·1153					
		15. 45	·1152					
		18. 15	·1160					
		20. 40:	·1162					
		23. 0	·1130					
		23. 59	·1130					
Jan. 26		Jan. 26		Jan. 26		Jan. 26		
0. 0	21. 34. 0	0. 0	·1130	0. 0	·02168	1. 0	40 ·2	41 ·6
2. 3	35. 30	1. 10	·1132	1. 30	·02117	3. 0	42 ·5	43 ·0
2. 22	34. 55	2. 30	·1127	4. 57	·01837	9. 0	42 ·0	43 ·0
2. 41	35. 0	2. 46	·1128	7. 11	·01717	21. 8	37 ·0	40 ·5
2. 53	34. 30	3. 2	·1126	8. 29	·01707			
4. 0	32. 45	4. 18	·1134	10. 12	·01738			
4. 11	33. 20	4. 35	·1130	14. 31	·01877			
4. 47	32. 30		***	15. 12	·01857			
5. 6	33. 30	5. 40	·1136	20. 12	·02144			
5. 35	33. 10	5. 50	·1134	23. 59	·02117			
5. 54	34. 0	8. 0	·1138					
7. 0	33. 0	8. 30	·1125					
7. 33	33. 20	9. 0	·1127					
8. 10	32. 40	9. 45	·1132					
8. 30	27. 30	10. 15	·1134					
9. 10	29. 35	10. 30	·1127					
9. 59	25. 50	10. 43	·1136					
10. 28	29. 30	10. 50	·1134					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 26		Jan. 26						
h m	° ′ ″	h m		h m		h m	°	°
10. 39	21. 27. 30	10. 59	·1139					
11. 27	32. 0	11. 7	·1136					
11. 59	31. 30	11. 22	·1144					
12. 27	31. 55	11. 43	·1138					
12. 45	31. 30	12. 7	·1144					
13. 4	37. 0	12. 35	·1144					
13. 52	26. 0	13. 14	·1148					
14. 11	28. 30	13. 25	·1146					
14. 39	28. 25	14. 0	·1166					
15. 10	34. 30	14. 45	·1151					
15. 39	33. 30	15. 15	·1151					
	***	15. 44	·1143					
18. 11	32. 0	16. 20	·1156					
	***		***					
19. 0	32. 55	18. 30	·1161					
20. 14	30. 55	19. 15:	·1170					
22. 30	35. 30	20. 45	·1152					
22. 52	34. 30	22. 35	·1142					
	(†)	23. 0	·1134					
			(†)					
Jan. 27		Jan. 27		Jan. 27		Jan. 27		
0. 0	21. 33. 50	0. 0	·1134	0. 0	·02117	1. 0	41 ·2	42 ·7
1. 30	33. 45		***	1. 40	·01916	3. 0	45 ·2	45 ·5
1. 40	35. 0	2. 6	·1122	3. 0	·01664	9. 0	47 ·3	47 ·6
2. 11	33. 55	2. 17	·1128	4. 15	·01730	21. 6	39 ·5	42 ·0
2. 30	35. 50		***	5. 40	{ ·01717			
2. 54	35. 15	2. 53	·1122		{ ·01822			
3. 10	35. 55	3. 2	·1126	7. 45	·01805			
3. 28	34. 0	3. 23	·1117	12. 24	·01984			
4. 9	32. 30	3. 34	·1120	15. 57	·02250			
5. 39	31. 10	3. 45	·1116	18. 40	·02220			
6. 28	31. 35	4. 46	·1128	22. 52	·02184			
6. 44	31. 10		***	23. 59	·02194			
7. 11	32. 5	7. 0	·1129					
9. 16	30. 30	7. 15	·1124					
9. 44	31. 45	8. 45	·1128					
14. 11	34. 50	11. 50	·1142					
14. 28	36. 0	14. 7	·1144					
15. 0	33. 20	14. 35	·1152					
15. 40	34. 30	15. 15	·1151					
16. 23	31. 0	16. 0	·1152					
17. 42	33. 45	16. 15	·1152					
18. 30	32. 55	16. 59	·1147					
20. 56	31. 55	17. 30	·1154					
	***		***					
22. 12	35. 0	20. 0	·1157					
22. 40	35. 0	20. 45	·1156					
23. 18	37. 30		***					
23. 59	36. 50	21. 30	·1142					
			***					
		23. 59	·1128					
Jan. 28		Jan. 28		Jan. 28		Jan. 28		
0. 0	21. 36. 50	0. 0	·1128	0. 0	·02194	1. 0	42 ·6	44 ·2
	***	0. 30	·1125	1. 30:	·02080	3. 0	46 ·4	47 ·0
1. 25	36. 20		***	3. 39	·01722	9. 0	49 ·5	49 ·5
1. 55	37. 0	2. 40	·1126	6. 43	·01732	21. 6	44 ·2	45 ·3

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 28		Jan. 28		Jan. 28				
h m	° ′ ″	h m		h m		h m	°	°
2. 57	21. 34. 30	2. 50	·1110	6. 50	·01811			
3. 12	35. 30	3. 10	·1111	7. 9	·01804			
3. 29	33. 55	3. 25	·1108	9. 30	·01906			
4. 32	33. 15	3. 45	·1114	12. 43	·01998			
4. 45	33. 25	4. 45	·1122	17. 14	·02290			
5. 52	31. 15	4. 55	·1121	22. 30	·02268			
6. 21	31. 55	5. 55	·1126	23. 59	·02216			
6. 56	31. 30	6. 30	·1122					
7. 46	32. 20	6. 55	·1125					
8. 52	31. 5		***					
9. 10	28. 10	8. 20	·1123					
9. 45	31. 0	9. 10	·1126					
10. 30	30. 40	9. 35	·1125					
10. 44	31. 30	10. 7	·1128					
11. 7	30. 0	10. 29	·1136					
12. 59	34. 30	10. 58	·1131					
13. 26	33. 30	11. 16	·1135					
	***		***					
14. 8	34. 25	13. 5	·1138					
	***	15. 0	·1142					
16. 44	33. 50	17. 35	·1150					
17. 23	32. 35	20. 0:	·1150					
21. 11	30. 10	22. 0:	·1132					
22. 59	34. 15		***					
23. 59	34. 10	23. 55	·1128					
Jan. 29		Jan. 29		Jan. 29		Jan. 29		
0. 0	21. 34. 10	0. 0	·1122	0. 0	·02216	1. 0	47 ·8	48 ·0
1. 40	34. 45		***	1. 59	·02017	3. 0	50 ·5	50 ·5
4. 40	32. 35	0. 45	·1115	3. 54	·01764	9. 0	52 ·0	52 ·0
8. 59	31. 5	1. 0	·1118	3. 58	·01789	21. 7	50 ·0	51 ·7
9. 15	29. 20	1. 29	·1118	9. 15	·01738			
9. 40	30. 40	1. 40	·1114	12. 42	·01747			
10. 40	30. 30	3. 15	·1109	19. 57	·01910			
10. 57	28. 30		***	22. 11	·01928			
11. 13	29. 0	5. 30	·1117	23. 59	·01893			
11. 18	28. 50	8. 30	·1122					
11. 30	30. 0	9. 52	·1121					
12. 8	29. 25	10. 2	·1124					
12. 38	31. 25	10. 15	·1121					
12. 45	31. 0	10. 45	·1122					
13. 10	32. 30	11. 0	·1125					
13. 28	31. 30	11. 40	·1122					
	***	11. 53	·1128					
14. 26	33. 0	12. 15	·1130					
14. 39	32. 30	12. 30	·1124					
18. 54	32. 40	13. 0	·1124					
21. 30	30. 55	13. 29	·1126					
22. 57	34. 25	13. 45	·1123					
23. 18	34. 30	15. 7	·1126					
23. 59	35. 30	16. 15	·1128					
		17. 0	·1132					
		20. 30:	·1131					
		22. 40	·1113					
		23. 0	·1113					
		23. 19	·1109					
		23. 59	·1108					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F Magnet.
Jan. 30		Jan. 30		Jan. 30		Jan. 30		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 35. 30	0. 0	·1108	0. 0	·01893	1. 0	52 ·5	52 ·7
2. 14	37. 20	1. 0	·1108	2. 22	·01775	3. 0	54 ·0	53 ·6
4. 20	33. 45	1. 45	·1111		·01830	9. 0	54 ·0	54 ·0
4. 56	33. 45	2. 45	·1108	8. 45	·01808	22. 0	50 ·5	51 ·4
5. 11	33. 20	3. 23	·1120	15. 14	·01843			
	***	4. 30	·1120	18. 40	·01866			
6. 52	33. 30	5. 40	·1118	23. 59	·02304			
7. 28	33. 0	6. 20	·1120					
8. 43	32. 35	7. 30	·1119					
9. 20	25. 0	7. 44	·1122					
9. 46	27. 30	8. 0	·1119					
10. 16	27. 30	8. 30	·1118					
10. 42	30. 40	9. 5	·1113					
13. 3	33. 20	9. 35	·1118					
14. 49	33. 30	9. 47	·1114					
15. 15	33. 45		***					
15. 53.	33. 35	13. 0	·1120					
16. 29	34. 25	16. 10	·1122					
17. 34	33. 25	17. 30	·1124					
18. 5	33. 45	19. 15	·1128					
21. 42	31. 55	22. 15	·1118					
23. 3	34. 5	23. 59	·1112					
23. 22	36. 0							
23. 59	36. 30							
Jan. 31		Jan. 31		Jan. 31		Jan. 31		
0. 0	21. 36. 30	0. 0	·1112	0. 0	·02304	7. 50	48 ·5	50 ·5
1. 9	37. 30	1. 10	·1117	1. 15	·02396	21. 0	42 ·2	43 ·5
1. 45	37. 10	1. 21	·1117	3. 15	·02408			
1. 51	37. 25	3. 30	·1120	7. 17	·02390			
3. 47	33. 45	6. 29	·1124	8. 52	·02410			
5. 34	32. 20	6. 40	·1121	12. 44	·02291			
7. 29	33. 30	7. 45	·1123	14. 30	·02270			
7. 54	31. 50	8. 13	·1122	14. 36	·02177			
8. 47	33. 25	9. 30	·1126	15. 40	·02230			
	***		***	19. 52	·02244			
16. 14	33. 55	13. 0	·1134	21. 43	·02210			
	***	16. 15	·1138	23. 59	·02236			
19. 49	33. 0	20. 25:	·1137					
	***		***					
21. 14:	31. 0	23. 59	·1124					
22. 46	34. 10							
23. 59	36. 0							
Feb. 1		Feb. 1		Feb. 1		Feb. 1		
0. 0	21. 36. 0	0. 0	·1123	0. 0	·02236	1. 0	43 ·6	44 ·0
0. 31	36. 5	0. 40	·1116	3. 40	·02132	3. 0	45 ·4	46 ·5
1. 31	37. 20	1. 0	·1122	5. 10	·01992	9. 0	44 ·6	45 ·0
3. 39	33. 15		***	7. 0	·01907	21. 5	37 ·6	40 ·2
5. 9	33. 30	2. 15	·1125	11. 0	·01884			
5. 30	32. 40	2. 30	·1123	15. 53	·02203			
6. 8	34. 15	3. 20	·1124		·02176			
6. 28	33. 45	4. 14	·1131	22. 22	·02140			
6. 59	35. 35	4. 36	·1132		·02042			
7. 39	35. 45	5. 45	·1134	23. 59	·02038			
	***	7. 0	·1127					
8. 26	33. 45	7. 15	·1128					
9. 29	33. 0	7. 30	·1125					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 1		Feb. 1						
h m	° ′ ″	h m		h m		h m	°	°
9. 49	21. 33. 30	8. 20	·1129					
10. 12	32. 15		***					
10. 35	32. 30	10. 15	·1132					
11. 0	26. 5	10. 30	·1142					
13. 0	33. 30	11. 7	·1143					
	***	11. 30	·1131					
15. 34	34. 30		***					
16. 0	33. 30	12. 40	·1140					
	***	12. 45	·1138					
19. 13	31. 35		***					
19. 28	32. 50	15. 15	·1148					
19. 45	31. 50	15. 30	·1147					
20. 14	33. 30	16. 45	·1148					
	***		***					
21. 44	31. 40	18. 0	·1150					
22. 0	32. 35		***					
22. 37	32. 15	19. 45	·1158					
23. 51	36. 55		***					
23. 59	37. 20	21. 20	·1150					
		21. 45	·1149					
		22. 23	·1136					
		22. 45	·1138					
		23. 59	·1137					
Feb. 2		Feb. 2		Feb. 2		Feb. 2		
0. 0	21. 37. 25	0. 0	·1137	0. 0	·02038	1. 0	39 ·7	41 ·0
0. 24	39. 40	0. 30	·1138	1. 51	·02000	3. 0	42 ·0	42 ·3
0. 49	39. 15	0. 43	·1134	3. 21	·01886	9. 0	43 ·4	44 ·0
1. 9	41. 0	0. 50	·1143	3. 45	·01827	21. 0	41 ·0	42 ·8
1. 43	41. 5	1. 45	·1125	6. 12	·01586			
2. 9	43. 0	2. 6	·1108	6. 55	·01603			
2. 39	40. 45	2. 15	·1104	7. 14	·01630			
3. 27	40. 10		***	7. 42	·01593			
4. 10	33. 40	3. 25	·1124	7. 59	·01608			
4. 51	32. 30	3. 45	·1108	9. 11	·01597			
5. 40	32. 20	4. 30	·1122	10. 0	·01529			
6. 13	34. 30		***	10. 45	·01540			
6. 45	33. 10	5. 40	·1126	11. 18	·01497			
6. 57	34. 10		***	11. 30	·01509			
7. 30	16. 0	6. 17	·1117	11. 56	·01474			
7. 41	20. 0	6. 40	·1121	13. 0	·01525			
7. 52	17. 40	6. 58	·1120	17. 12	·01612			
8. 21	30. 5	7. 7	·1114	17. 29	·01617			
8. 45	26. 0	7. 15	·1118	23. 59	·01710			
8. 50	27. 0	7. 29	·1131					
9. 14	25. 30	7. 35	·1130					
9. 39	16. 30	7. 45	·1108					
10. 8	29. 0	8. 10	·1119					
10. 35	26. 30	8. 25	·1105					
10. 44	30. 0	8. 47	·1115					
10. 56	25. 30		***					
11. 15	30. 20	9. 7	·1112					
11. 27	28. 0	9. 42	·1158					
11. 45	32. 10	10. 0	·1128					
12. 4	27. 50	10. 8	·1118					
12. 37	30. 40	10. 50	·1128					
12. 52	29. 30	11. 0	·1147					
13. 45:	34. 0	11. 24	·1131					
14. 34	32. 0							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 2		Feb. 2						
h m	° ′ ″	h m		h m		h m	°	°
14. 59	21. 34. 30	11. 43	·1150					
15. 13	35. 0		***					
15. 35	34. 10	12. 6	·1134					
16. 4	35. 10	12. 25	·1141					
16. 35	34. 35	12. 53	·1132					
17. 6	34. 20		***					
17. 27	34. 45	14. 10	·1133					
17. 59	32. 5		***					
	***	15. 25	·1141					
18. 35	33. 20		***					
19. 12	35. 30	16. 1	·1138					
19. 24	33. 50	16. 30	·1144					
	***	16. 58	·1140					
19. 58	34. 5	17. 31	·1153					
20. 28	33. 10	18. 0	·1152					
	***		***					
21. 22	35. 0	18. 30	·1157					
21. 42	38. 40	19. 0	·1150					
22. 16	41. 50		***					
	***	20. 10	·1148					
23. 12	37. 15		***					
23. 33	42. 30	21. 10	·1138					
23. 45	40. 30		***					
23. 59	41. 30	22. 0	·1114					
			***					
		23. 59	·1108					
Feb. 3		Feb. 3		Feb. 3		Feb. 3		
0. 0	21. 41. 30	0. 0	·1108	0. 0	·01710	1. 0	44 ·2	44 ·5
0. 9	43. 15	0. 14	·1096	1. 7	{·01676	3. 0	46 ·6	46 ·3
0. 17	41. 10		***		{·01840	9. 0	49 ·5	49 ·0
1. 0	41. 0	1. 0	·1106	2. 43	·01737	21. 6	49 ·2	50 ·3
1. 7	39. 45	1. 30	·1090	5. 22	·01758			
1. 27	41. 0	2. 0	·1105	11. 11	·01722			
1. 35	37. 55		***	11. 40	·01700			
2. 25	41. 20	2. 30	·1102	13. 45	·01720			
2. 45	38. 20	3. 5	·1108	14. 29	·01694			
2. 56	38. 45	3. 16	·1103	22. 11	·01737			
3. 5	38. 0	3. 40	·1106	23. 59	·01833			
3. 12	38. 30		***					
3. 39	36. 10	4. 15	·1100					
3. 45	36. 40	4. 40	·1106					
3. 59	35. 30	4. 45	·1102					
4. 10	34. 45		***					
4. 15	35. 30	5. 24	·1102					
4. 33	33. 30		***					
4. 45	33. 55	6. 7	·1118					
5. 13	30. 50	6. 15	·1114					
5. 27	32. 30	6. 40	·1118					
5. 38	31. 50	7. 14	·1112					
5. 47	32. 45	7. 25	·1120					
6. 13	32. 50		***					
6. 26	33. 50	8. 10	·1121					
6. 30	32. 30		***					
6. 44	32. 5	9. 6	·1132					
7. 0	32. 55	9. 27	·1132					
7. 40	29. 0	9. 40	·1120					
7. 58	30. 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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V. F. Magnet.
Feb. 3		Feb. 3						
h m	° ′ ″	h m		h m		h m	°	°
8. 9	21. 30. 5	10. 20	·1118					
	***	10. 40	·1123					
8. 53	31. 30	11. 1	·1158					
9. 40	26. 0	11. 31	·1134					
10. 8	27. 25	11. 40	·1136					
10. 15	28. 40	11. 58	·1124					
10. 47	30. 0	12. 14	·1118					
11. 6	17. 5	12. 23	·1126					
11. 23	22. 25	12. 35	·1120					
11. 30	24. 35		***					
11. 41	22. 35	13. 19	·1124					
11. 51	25. 55	13. 56	·1134					
12. 15	27. 5	14. 30	·1126					
12. 44	31. 55		***					
	***	16. 0	·1134					
13. 14	32. 35	16. 15	·1126					
13. 22	32. 0		***					
13. 56	40. 15	16. 50	·1125					
14. 21	36. 0		***					
15. 24	33. 10	19. 0	·1134					
15. 52	29. 30	19. 29	·1142					
16. 45	34. 30		***					
17. 10	32. 55	20. 30	·1117					
	***	20. 45	·1122					
17. 43	34. 20		***					
17. 51	33. 30	22. 10	·1106					
	***		***					
18. 22	36. 5	22. 39	·1107					
	***		***					
19. 15	35. 5	23. 59	·1092					
19. 37	36. 30							
20. 8	33. 45							
	***							
21. 15	32. 55							
	***							
21. 59	35. 15							
	***							
22. 27	34. 55							
22. 50	37. 5							
	***							
23. 45	36. 30							
23. 59	38. 50							
Feb. 4		Feb. 4		Feb. 4		Feb. 4		
0. 0	21. 38. 55	0. 0	·1092	0. 0	·01833	1. 0	52 ·6	53 ·0
0. 14	38. 10	0. 7	·1093	3. 15	·01892	3. 0	54 ·3	55 ·0
	***	0. 20	·1089	4. 7	·01877	9. 0	52 ·7	52 ·5
0. 50	39. 15		***	4. 44	·01895	21. 0	46 ·0	46 ·8
1. 7	43. 40	1. 8	·1098	6. 21	·01840			
1. 15	39. 30	2. 10	·1094	7. 16	·01843			
1. 52	36. 40	2. 43	·1099	10. 0	·01937			
1. 56	37. 25	2. 54	·1094	13. 43	·02157			
2. 9	36. 50	3. 10	·1098	17. 7	·02411			
2. 16	38. 0	3. 23	·1089	22. 25	·02336			
	***	3. 51	·1093	23. 59	·02338			
2. 39	38. 40	4. 0	·1089					
3. 8	40. 30	4. 13	·1089					
3. 16	38. 50	4. 40	·1090					
			***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 4		Feb. 4						
h m	° ′ ″	h m		h m		h m	°	°
3. 40	21. 38. 0	5. 42	·1112					
3. 54	36. 0	5. 51	·1108					
4. 10	34. 15	6. 14	·1104					
4. 19	34. 5	6. 30	·1120					
4. 39	32. 30		***					
4. 58	34. 30	6. 58	·1128					
5. 29	34. 15	7. 37	·1114					
5. 42	33. 10	7. 45	·1115					
6. 0	34. 15	8. 7	·1108					
6. 26	25. 30		***					
6. 41	27. 30	9. 10	·1114					
6. 48	26. 55	9. 40	·1144					
7. 0	30. 10	10. 8	·1127					
7. 16	30. 50	10. 15	·1127					
7. 41	32. 45	10. 30	·1124					
7. 58	32. 25	10. 55	·1114					
8. 43	34. 10	11. 11	·1116					
9. 27	21. 30		***					
9. 56	29. 25	12. 0	·1116					
10. 7	28. 20	12. 30	·1118					
10. 18	31. 45	13. 2	·1128					
10. 34	31. 25	14. 0	·1122					
10. 58	32. 50	14. 44	·1126					
11. 13	32. 0	15. 14	·1121					
11. 54	32. 20	15. 40	·1125					
12. 39	35. 15	16. 45	·1127					
13. 11	33. 40		***					
13. 31	34. 30	18. 20	·1130					
14. 14	32. 0		***					
14. 51	34. 25	19. 44	·1120					
17. 24	33. 25	20. 0	·1126					
18. 56	35. 35	21. 20	·1130					
19. 15	33. 30	22. 15	·1114					
19. 30	33. 30	23. 59	·1098					
20. 4	31. 30							
	***							
20. 45	33. 45							
21. 53	31. 40							
	(†)							
Feb. 5		Feb. 5		Feb. 5		Feb. 5		
0. 0	21. 34. 50	0. 0	·1098	0. 0	·02338	1. 0	49 ·5	49 ·5
	***		***	1. 0	·02258	3. 0	53 ·2	52 ·4
1. 10	37. 15	2. 25	·1098	2. 54	·01967	9. 0	54 ·3	54 ·0
1. 17	36. 30	3. 30	·1100		·02180	21. 0	47 ·9	47 ·6
2. 7	37. 0	5. 5	·1108	4. 18	·01950			
4. 56	33. 25		***	8. 32	·01867			
5. 18	33. 25	7. 45	·1108	14. 0	·02047			
6. 30	32. 10	8. 29	·1116	18. 24	·02436			
7. 6	33. 0	8. 41	·1127	20. 29	·02405			
7. 31	30. 0	9. 0	·1125	23. 59	·02393			
8. 5	31. 15	9. 15	·1110					
8. 38	24. 0	9. 30	·1115					
9. 57	32. 50	10. 2	·1108					
	***	10. 16	·1114					
11. 58	32. 40	10. 30	·1108					
12. 22	36. 55	11. 23	·1113					
12. 44	33. 45	11. 44	·1110					
			***					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 5		Feb. 5						
h m	° ′ ″	h m		h m		h m	°	°
13. 22	21. 36. 15	12. 40	·1112					
13. 44	33. 45	13. 0	·1116					
15. 28	34. 30	13. 15	·1114					
17. 27	32. 55	13. 50:	·1120					
18. 8	33. 30	14. 30	·1116					
19. 54	33. 0	17. 0:	·1126					
20. 21	33. 30	18. 28	·1126					
20. 40	32. 30	19. 45:	·1130					
21. 19	32. 0		***					
22. 0	33. 0	23. 15	·1104					
22. 13	32. 10		***					
22. 18	33. 40	23. 59	·1095					
	***							
22. 52	34. 40							
23. 1	36. 10							
23. 29	36. 15							
23. 59	36. 55							
Feb. 6		Feb. 6		Feb. 6		Feb. 6		
0. 0	21. 36. 55	0. 0	·1095	0. 0	·02393	1. 0	50 ·0	49 ·0
0. 15	37. 50	0. 45	·1090	1. 15	·02404	3. 0	52 ·0	51 ·0
1. 12	37. 15	1. 8	·1084	3. 15	·02230	9. 0	52 ·5	52 ·5
1. 42	38. 35	1. 45	·1090	5. 54	·01846	22. 35	41 ·0	42 ·0
2. 25	37. 30	2. 30	·1088	6. 45	{·01850			
2. 44	37. 40		***		{·02020			
3. 14	36. 15	3. 43	·1097	11. 15	·02067			
6. 11	31. 55	4. 45	·1100	15. 0	·02379			
7. 11	33. 30		***	17. 40	·02320			
7. 21	32. 30	7. 0	·1103	23. 59	·02258			
7. 42	32. 40	7. 20	·1096					
8. 9	30. 10	7. 40	·1095					
8. 43	34. 0		***					
	***	8. 5	·1088					
10. 18	31. 55	8. 40	·1096					
	***		***					
11. 6	34. 0	10. 15	·1108					
	***	10. 35	·1120					
12. 17	33. 30	10. 59	·1112					
	***	11. 12	·1118					
13. 39	34. 20	11. 29	·1112					
	***	12. 5	·1115					
14. 22	33. 35		***					
	***	13. 0	·1115					
16. 0	35. 0		***					
	***	16. 40	·1126					
17. 22	32. 40	17. 20	·1132					
17. 58	33. 50		***					
	***	17. 53	·1127					
20. 23	33. 40	18. 40	·1126					
21. 11	36. 15		***					
21. 30	33. 45	19. 30	·1132					
21. 42	34. 40		***					
21. 54	33. 30	20. 20	·1126					
	***	21. 16	·1110					
23. 0	36. 40		***					
23. 24	35. 30	22. 14	·1124					
23. 59	38. 35	22. 40	·1117					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		Feb. 6						
h m	° ′ ″	h m		h m		h m	°	°
		23. 38	·1108					
		23. 59	·1116					
Feb. 7		Feb. 7		Feb. 7		Feb. 7		
0. 0	21. 38. 35	0. 2	·1117	0. 0	·02258	6. 45	44 ·8	46 ·2
0. 36	37. 20	0. 30	·1114	2. 40	·02256	21. 0	38 ·4	41 ·3
0. 52	37. 30		***	9. 41:	·01900			
1. 13	39. 0	3. 0	·1115	17. 0	{·02247			
2. 28	37. 15	4. 15	·1120		{·02211			
	***	4. 40	·1117	20. 43	·02193			
2. 48	37. 30	6. 20	·1120	20. 52	·02128			
3. 26	35. 20	7. 25	·1120	21. 37	·02175			
6. 30	32. 45		***	23. 59	·02150			
7. 31	33. 0	8. 40	·1124					
8. 16	33. 50	9. 5	·1122					
9. 44	33. 10	9. 40	·1123					
10. 30	23. 40	10. 17	·1116					
11. 15	32. 10	10. 45	·1116					
11. 52	33. 40	11. 0	·1122					
12. 42	34. 30	11. 10	·1116					
13. 0	33. 45		***					
14. 22	33. 45	13. 0	·1127					
14. 44	37. 30		***					
15. 56	32. 15	15. 0	·1128					
16. 29	33. 30	16. 9	·1135					
17. 22	33. 0	16. 40	·1132					
19. 44	33. 20	19. 45:	·1136					
20. 13	32. 0	22. 15	·1113					
22. 48	36. 15	22. 45	·1112					
	(†)		(†)					
Feb. 8		Feb. 8		Feb. 8		Feb. 8		
0. 0	21. 37. 10		(†)	0. 0	·02150	1. 0	42 ·0	42 ·6
0. 39	37. 20	0. 15	·1112	2. 39	·02030	3. 0	46 ·0	46 ·7
0. 51	37. 55		***	4. 17	·01698	9. 0	47 ·0	47 ·5
1. 12	37. 0	1. 42	·1108	5. 15	·01733	21. 0	38 ·2	42 ·2
	***	2. 0	·1104	9. 13	·01673			
4. 59	33. 0		***	10. 17	·01677			
5. 16	31. 40	3. 45	·1100	14. 13:	·01843			
5. 37	31. 50	4. 0	·1104	18. 55	·02237			
5. 58	30. 45	4. 15	·1102	19. 15	·02218			
6. 52	33. 0	4. 33	·1104	23. 59	·02212			
7. 22	33. 30	5. 0	·1103					
7. 42	32. 30	5. 15	·1099					
8. 22	32. 30	6. 0	·1106					
9. 3	17. 45	6. 35	·1101					
9. 20	26. 50		***					
10. 13	31. 55	7. 15	·1107					
10. 42	30. 55		***					
	***	7. 40	·1102					
15. 23	35. 0	8. 0	·1104					
	***	8. 29	·1100					
18. 40	33. 25	8. 44	·1086					
21. 7	31. 0	9. 9	·1129					
23. 8	34. 30	9. 53	·1102					
23. 22	33. 50	10. 10	·1106					
23. 59	34. 10		***					
		11. 47	·1116					
			***					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Feb. 8 h m		h m		h m	°	°
		13. 30	·1124					
			***					
		14. 10	·1124					
		14. 45	·1126					
		17. 0	·1126					
		18. 0	·1130					
		20. 15	·1130					
		21. 35	·1120					
			***					
		23. 59	·1106					
Feb. 9		Feb. 9		Feb. 9		Feb. 9		
0. 0	21. 34. 10	0. 0	·1106	0. 0	·02212	1. 0	41 ·3	42 ·2
0. 22	35. 40	1. 55	·1104	2. 0:	·02100	3. 0	45 ·0	44 ·3
0. 44	35. 0		***	5. 18	·01652	9. 0	45 ·0	45 ·2
1. 57	35. 45	3. 15	·1106	7. 24	·01656	21. 0	38 ·3	41 ·4
2. 38	37. 20	4. 55	·1111	10. 13	·01658			
3. 54	34. 20		***	13. 45	·01757			
4. 59	33. 15	5. 50	·1106	20. 26	·02216			
5. 44	28. 40	6. 14	·1113	22. 11	·02175			
6. 0	30. 5	7. 37	·1098	23. 59	·02196			
6. 15	30. 5	8. 25	·1102					
6. 28	31. 50	8. 40	·1111					
6. 45	31. 15	9. 0	·1102					
7. 0	33. 5	9. 15	·1106					
7. 32	31. 50	9. 33	·1113					
7. 46	32. 0		***					
8. 37	31. 5	11. 8	·1115					
9. 0	31. 40	11. 37	·1107					
9. 26	30. 5	12. 15	·1122					
9. 45	31. 35	12. 30	·1114					
10. 6	30. 15	12. 40	·1117					
10. 58	30. 50	13. 0	·1116					
11. 15	33. 0	13. 15	·1120					
11. 45	31. 0	13. 30	·1119					
11. 49	31. 40	14. 0	·1122					
12. 10	30. 50	15. 15	·1119					
12. 46	31. 30	16. 0	·1121					
13. 17	30. 45		***					
13. 30	32. 30	19. 45:	·1133					
13. 53	33. 10		***					
14. 12	32. 0	22. 15	·1111					
14. 51	31. 10		(†)					
15. 23	33. 45							
16. 22	34. 15							
16. 51	33. 20							
	***							
19. 12	33. 25							
20. 30	32. 0							
21. 44	35. 30							
22. 10	35. 20							
	(†)							
23. 39	37. 25							
23. 59	36. 50							
Feb. 10		Feb. 10		Feb. 10		Feb. 10		
0. 0	21. 36. 50	0. 0	·1101	0. 0	·02196	1. 0	42 ·4	43 ·0
0. 25	36. 20		***	1. 58:	·02014	3. 0	43 ·0	45 ·5

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 10		Feb. 10		Feb. 10		Feb. 10		
h m	° ′ ″	h m		h m		h m	°	°
0. 36	21. 36. 50	1. 25	·1101	3. 52	·01686	9. 0	46 ·5	45 ·5
1. 0	36. 40	1. 34	·1097	5. 15	·01698	21. 6	40 ·0	42 ·0
1. 28	37. 45		***		·01827			
4. 21	31. 50	3. 15	·1104	9. 11	·01875			
4. 39	31. 45		***	10. 42	·01892			
5. 12	29. 15	4. 5	·1104	14. 28	·02013			
5. 22	29. 10	4. 27	·1106	18. 50	·02246			
5. 36	28. 30	4. 50	·1096	21. 30	·02217			
5. 54	30. 30	5. 15	·1101	23. 59	·02228			
6. 8	30. 40	5. 40	·1106					
6. 40	32. 25	6. 15	·1101					
8. 10	31. 45	7. 8	·1107					
8. 39	27. 20	7. 40	·1107					
8. 48	27. 45	8. 0	·1108					
9. 4	27. 30	8. 20	·1103					
9. 22	30. 40	9. 5	·1112					
10. 0	31. 40	9. 53	·1112					
10. 12	30. 10	10. 10	·1126					
10. 45	30. 30		***					
11. 22	32. 30	11. 0	·1118					
13. 0	33. 30		***					
14. 42	33. 40	12. 5	·1117					
15. 0	36. 0		***					
15. 38	34. 0	15. 18	·1126					
15. 45	34. 15		***					
16. 15	33. 5	20. 10:	·1126					
16. 29	33. 30	21. 9	·1110					
16. 53	33. 15		***					
17. 11	32. 0	23. 59	·1102					
	***							
18. 55	32. 0							
20. 30:	30. 30							
	***							
22. 44	34. 45							
23. 0	35. 50							
23. 15	35. 35							
23. 59	37. 15							
Feb. 11		Feb. 11		Feb. 11		Feb. 11		
0. 0	21. 37. 15	0. 0	·1102	0. 0	·02228	1. 0	42 ·8	43 ·2
2. 12	38. 0	0. 5	·1103	2. 22:	·02160	3. 0	45 ·4	44 ·8
3. 52	33. 30	1. 0	·1097	5. 11	·01860	9. 0	45 ·0	46 ·3
6. 23	32. 45	2. 0	·1100		·01938	21. 0	42 ·3	44 ·0
7. 0	33. 30	2. 45	·1098	5. 50	·01891			
10. 0	33. 40		***	10. 3	·01918			
11. 13	31. 40	3. 47	·1098	20. 15	·02192			
12. 45	34. 0	4. 30	·1101	22. 41	·02246			
13. 12	33. 30	6. 45	·1102	23. 45	·02242			
13. 48	34. 20		***		(†)			
	***	10. 44	·1110					
18. 22	32. 30	10. 59	·1107					
20. 30	30. 50		***					
23. 59	35. 50	13. 55	·1112					
		18. 15:	·1120					
		23. 8	·1096					
		23. 59	·1104					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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. 35. 50	0. 0	·1104		(†)	1. 0	46 ·5	47 ·0
0. 30	36. 15		***	0. 11	·02227	3. 0	46 ·0	47 ·0
1. 25	38. 20	0. 45	·1107	2. 0	·02039	9. 0	50 ·5	51 ·0
3. 59	34. 15		***	4. 0	·01757	21. 0	47 ·0	47 ·4
7. 45	32. 55	3. 0	·1104	5. 30	·01773			
8. 7	31. 50	4. 0	·1105	5. 40	·01820			
8. 27	32. 30		***	6. 0	·01803			
9. 30	32. 45	6. 40	·1110	10. 30	·01813			
9. 44	31. 55		***	10. 51	·01790			
10. 2	32. 30	7. 7	·1104	17. 0	·01880			
10. 13	30. 50	7. 30	·1108	18. 0	·01940			
10. 23	31. 0	7. 41	·1105	23. 12	·02158			
11. 9	14. 30	7. 50	·1107	23. 59	·02208			
11. 38	24. 35	8. 0	·1103					
12. 13	28. 0	8. 30	·1104					
12. 28	27. 50	8. 40	·1100					
	***	8. 53	·1106					
14. 0	33. 30	8. 59	·1103					
	***	9. 2	·1106					
14. 37	34. 10	9. 20	·1104					
14. 52	32. 50		***					
15. 40	31. 50	10. 10	·1106					
16. 11	41. 30		***					
17. 14	29. 45	10. 50	·1096					
17. 43	30. 0	11. 0	·1098					
18. 6	32. 30	11. 10	·1094					
18. 32	31. 30	11. 27	·1102					
18. 53	32. 45	11. 40	·1095					
19. 0	31. 50	12. 5	·1092					
19. 28	32. 30	12. 25	·1102					
	***	12. 55	·1107					
20. 43	31. 0		***					
21. 47	32. 20	14. 40	·1112					
22. 13	36. 30		***					
	***	16. 10	·1113					
22. 58	34. 20	16. 45	·1128					
	***	17. 30	·1116					
23. 44	37. 30	18. 10	·1122					
23. 59	36. 0	18. 47	·1116					
		19. 20	·1119					
		19. 25	·1116					
			***					
		20. 10	·1122					
		20. 55	·1112					
		21. 15	·1107					
		22. 0	·1111					
		22. 30	·1096					
			***					
		23. 40	·1094					
		23. 59	·1094					
Feb. 13		Feb. 13		Feb. 13		Feb. 13		
0. 0	21. 36. 0	0. 0	·1094	0. 0	·02208	1. 0	50 ·0	50 ·0
1. 28	37. 50	0. 39	·1104	0. 29	·02177	3. 0	52 ·2	52 ·0
1. 42	42. 20		***	0. 39	·02112	9. 0	50 ·8	51 ·4
2. 14	37. 55	1. 9	·1100	1. 40	·02040	22. 26	47 ·2	47 ·7
2. 42	37. 20	1. 40	·1108	3. 55	·01810			
2. 52	37. 45	2. 10	·1096	6. 0	·01779			
			***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 13	° ′ ″	Feb. 13		Feb. 13		h m	°	°
h m		h m		h m				
3. 14	21. 36. 0	3. 25	·1112	7. 25	·01776			
3. 21	36. 40	3. 45	·1112	9. 0	·01842			
3. 40	36. 0		***	10. 13	·01837			
4. 45	37. 30	4. 15	·1119	13. 22	·01892			
5. 0	39. 40	4. 35	·1117	14. 30	·01954			
5. 59	35. 25	5. 10	·1096	15. 39	·01975			
6. 32	36. 20	5. 17	·1096	23. 59	·02226			
	***		***					
8. 19	33. 50	6. 22	·1111					
8. 52	19. 50	6. 40	·1106					
9. 22	25. 50	7. 0	·1110					
9. 39	22. 0	7. 30	·1108					
9. 47	26. 10	7. 59	·1111					
9. 52	25. 50		***					
10. 1	27. 5	8. 31	·1104					
10. 14	26. 50	8. 49	·1117					
10. 27	28. 30	9. 5	·1123					
10. 40	26. 15	9. 25	·1094					
11. 0	25. 30	9. 40	·1112					
11. 57	31. 30	9. 52	·1098					
12. 55	29. 0	10. 7	·1089					
13. 3	29. 50	10. 29	·1101					
13. 22	27. 20	10. 39	·1099					
13. 38	28. 30	11. 25	·1102					
13. 56	28. 0	11. 35	·1099					
14. 15	30. 25	12. 6	·1106					
14. 55	25. 50	12. 17	·1104					
15. 12	29. 10	12. 44	·1106					
15. 38	31. 0	13. 0	·1102					
15. 59	31. 10	13. 15	·1104					
16. 14	30. 0	13. 30	·1096					
16. 21	31. 30	13. 47	·1096					
16. 52	33. 20	14. 0	·1110					
17. 16	32. 30	14. 17	·1113					
17. 43	33. 0	14. 29	·1108					
18. 30:	36. 45	15. 2	·1113					
19. 14	33. 50	15. 28	·1106					
19. 39	34. 30	16. 10	·1110					
19. 57	32. 40	16. 25	·1106					
20. 15	34. 15	16. 30	·1110					
	***		***					
21. 28	33. 0	17. 22	·1110					
	***	17. 39	·1114					
22. 0	34. 0		***					
	***	18. 25	·1114					
22. 8	36. 0	19. 15	·1126					
22. 52	33. 30		***					
23. 12	35. 30	21. 45	·1102					
23. 27	34. 45	22. 0	·1106					
	***		***					
23. 59	36. 20	23. 59	·1099					
Feb. 14		Feb. 14		Feb. 14		Feb. 14		
0. 0	21. 36. 20	0. 0	·1099	0. 0	·02226	6. 24	45 ·4	46 ·0
0. 14	36. 0	0. 42	·1106	2. 40	·02327	21. 0	41 ·2	43 ·5
	***	0. 55	·1103	4. 39	·02354			
1. 19	39. 30		***	11. 40	·02360			
1. 33	38. 30	1. 30	·1106	11. 52	·02350			
	***							

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 14		Feb. 14		Feb. 14				
h m	° ′ ″	h m		h m		h m	°	°
2. 52	21. 37. 40	1. 52	·1113	13. 27	·02347			
3. 17	36. 15		***	14. 52	02258			
3. 28	36. 55	3. 15	·1116	15. 22	·02291			
4. 17	33. 40	3. 32	·1124	17. 19	·02294			
5. 4	33. 10		***	23. 59	·02197			
5. 52	35. 0	4. 40	·1112					
8. 28	32. 20	5. 7	·1120					
8. 48	25. 10	5. 52	·1122					
9. 26	31. 50	6. 5	·1116					
10. 0	21. 10	7. 45	·1124					
10. 40	31. 30	7. 59	·1121					
11. 7	31. 40	8. 15	·1125					
11. 14	33. 50	8. 30	·1119					
11. 30	32. 15	8. 55	·1122					
11. 38	33. 0	9. 10	·1112					
11. 55	30. 0	9. 26	·1121					
12. 15	31. 30	9. 44	·1120					
12. 51	29. 45	10. 7	·1112					
13. 7	32. 30	10. 27	·1116					
13. 47	25. 0	10. 50	·1108					
14. 7	24. 50	11. 8	·1108					
14. 30	20. 15	11. 40	·1126					
15. 0	28. 30	12. 6	·1112					
15. 20	29. 15	12. 21	·1118					
15. 28	28. 0	12. 40	·1115					
15. 56	27. 50	13. 5	·1117					
16. 14	31. 0	13. 23	·1138					
16. 25	30. 10	13. 45	·1127					
16. 59	34. 30	13. 52	·1134					
	***	13. 55	·1128					
18. 20	34. 40	14. 20	·1129					
18. 29	32. 30		***					
18. 45	34. 10	15. 2	·1112					
	***		***					
19. 20	34. 20	16. 7	·1122					
19. 41	32. 40	16. 40	·1118					
19. 55	34. 30	16. 52	·1124					
20. 43	34. 30	17. 10	·1126					
20. 55	37. 5	17. 25	·1118					
21. 30	34. 55	18. 7	·1128					
21. 52	35. 30	18. 16	·1126					
22. 44	33. 55		***					
23. 59	35. 30	19. 5	·1134					
			***					
		19. 25	·1128					
			***					
		20. 0	·1130					
		20. 45	·1116					
		21. 17	·1121					
			***					
		21. 55	·1112					
			***					
		23. 10	·1104					
		23. 40	·1107					
		23. 59	·1106					
Feb. 15		Feb. 15		Feb. 15		Feb. 15		
0. 0	21. 35. 30	0. 0	·1106	0. 0	·02197	1. 0	45·2	45·3
0. 28	36. 20	0. 15	·1107	1. 0	·02112	3. 0	49·0	50·6

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 15		Feb. 15		Feb. 15		Feb. 15		
h m	° ′ ″	h m		h m		h m	°	°
0. 39	21. 37. 30	0. 30	·1102	3. 56	·01774	9. 0	50·3	49·7
0. 56	37. 15	1. 15	·1101	4. 52	·01850	21. 0	43·4	45·2
1. 15	38. 30	2. 24	·1104	5. 45	·01830			
1. 43	37. 50	2. 44	·1094	6. 40	·01833			
1. 58	38. 30	3. 15	·1094		***			
2. 20	37. 50	3. 32	·1088	8. 10	·01768			
2. 38	39. 30	3. 45	·1092	9. 0	·01780			
2. 56	38. 25	4. 15	·1068		·02000			
3. 16	38. 40	4. 31	·1071	10. 45	·01912			
3. 30	40. 20	4. 55	·1087	11. 26	·01913			
3. 44	38. 45		***	12. 0	·01970			
4. 0	40. 20	5. 30	·1078	13. 42	·02050			
4. 11	39. 30	5. 45	·1078	14. 14	·02063			
4. 20	40. 30	6. 8	·1090	14. 44	·02112			
4. 45	37. 20		***	15. 7	·02053			
5. 7	40. 0	6. 37	·1080	17. 30	·02253			
5. 42	39. 30	6. 40	·1096	20. 0	·02303			
6. 0	36. 15		***	21. 30	·02290			
6. 20	37. 25	7. 6	·1101	23. 59	·02330			
6. 29	36. 40	7. 13	·1091					
6. 32	36. 40	7. 25	·1101					
6. 45	30. 40	7. 30	·1088					
6. 49	30. 50	7. 40	·1092					
7. 12	21. 0	7. 55	·1086					
7. 20	24. 0	8. 7	·1073					
7. 28	21. 55	8. 23	·1078					
7. 36	28. 30	8. 45	·1076					
7. 43	27. 5	8. 57	·1088					
8. 2	35. 0	9. 25	·1080					
8. 17	30. 45	9. 33	·1090					
8. 40	32. 25	9. 54	·1088					
8. 51	32. 30	10. 10	·1106					
9. 13	35. 5	10. 27	·1117					
9. 28	27. 45	10. 43	·1104					
9. 57	31. 55	10. 47	·1108					
10. 7	30. 0	11. 0	·1094					
10. 31	36. 5	11. 15	·1074					
10. 43	31. 25	12. 0	·1099					
10. 49	33. 0	12. 15	·1094					
11. 14	32. 30	12. 44	·1099					
11. 37	28. 25	13. 10	·1100					
12. 14	32. 0	13. 39	·1098					
13. 14	28. 30	13. 54	·1105					
13. 31	31. 40	14. 25	·1108					
14. 19	25. 30	14. 40	·1124					
14. 39	33. 30	14. 45	·1116					
15. 11	26. 25	14. 48	·1118					
15. 51	32. 55	15. 0	·1113					
16. 57	29. 5	15. 17	·1117					
17. 41	31. 30	15. 40	·1108					
18. 11	29. 30		***					
18. 41	33. 0	16. 20	·1106					
19. 43	31. 0	16. 42	·1111					
19. 52	32. 45		***					
20. 11	32. 0	17. 40	·1116					
20. 19	33. 45	17. 50	·1116					
	***	18. 25	·1107					
21. 8	33. 40		***					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 15		Feb. 15						
h m	° ′ ″	h m		h m		h m	°	°
22. 7	21. 36. 10	19. 47	·1104					
22. 22	35. 55	20. 2	·1109					
			***					
22. 39	37. 0							
23. 0	36. 10	21. 25	·1096					
23. 38	37. 30	21. 50	·1097					
			***					
23. 59	37. 55							
		22. 40	·1088					
			***					
		23. 59	·1090					
Feb. 16		Feb. 16		Feb. 16		Feb. 16		
0. 0	21. 37. 55	0. 0	·1090	0. 0	·02330	1. 0	46 ·2	46 ·8
			***					
0. 9	39. 30			0. 39	·02316	3. 0	49 ·0	50 ·2
1. 0	41. 10	0. 39	·1093	2. 40	·02180	9. 0	50 ·0	49 ·6
2. 28	39. 30	1. 15	·1083	4. 32	·01877	21. 7	41 ·2	43 ·2
2. 50	33. 15		(†)	5. 40	{ ·01876			
2. 57	35. 0	2. 30	·1084		{ ·01972			
3. 4	32. 55	2. 47	·1097	6. 17	·01937			
3. 14	31. 20	3. 1	·1088	6. 51	·01995			
3. 31	32. 20	3. 8	·1094	7. 0	·01938			
			***		***			
3. 45	35. 15							
3. 58	33. 30	3. 30	·1080	7. 31	·01898			
4. 26	37. 0	3. 40	·1084	8. 0	·01933			
	***	3. 51	·1075	9. 25	·01937			
5. 12	37. 40	4. 0	·1084	9. 52	·01900			
5. 36	33. 0	4. 8	·1082	10. 45	·01947			
5. 43	34. 0	4. 25	·1079	11. 40	·01960			
6. 2	34. 25	4. 37	·1086	12. 10	·01987			
6. 13	33. 30	4. 45	·1092	12. 53	·01928			
6. 22	33. 50	4. 52	·1092	13. 21	·01824			
					***			
6. 30	32. 20	4. 55	·1087					
6. 41	32. 40	5. 5	·1088	14. 30	·02037			
			***					
6. 46	30. 0			15. 0	·02103			
6. 57	43. 30	5. 23	·1077	15. 30	·02081			
7. 15	28. 0	5. 40	·1087	15. 47	·02109			
7. 19	37. 0	6. 0	·1090	16. 22	·02193			
7. 52	15. 25	6. 15	·1088	16. 45	·02177			
8. 12	17. 40	6. 25	·1078	18. 4	·02175			
8. 36	30. 40	6. 40	·1078	20. 15	·02247			
	***	6. 45	·1128	22. 26	·02249			
9. 18	30. 0	6. 55	·1094	23. 39	·02296			
9. 39	41. 50	7. 3	·1083	23. 59	·02293			
9. 45	33. 50	7. 10	·1112					
9. 52	34. 45	7. 30	·1056					
10. 4	29. 10	7. 55	·1094					
10. 10	31. 30	8. 7	·1092					
10. 20	27. 25	8. 15	·1097					
10. 27	28. 30	8. 40	·1076					
10. 31	28. 25	9. 0	·1076					
11. 6	33. 10	9. 20	·1102					
11. 16	29. 55	9. 38	·1080					
11. 31	33. 0	9. 43	·1084					
11. 47	28. 30	9. 47	·1078					
12. 4	30. 0	10. 0	·1094					
12. 17	25. 10	10. 10	·1081					
			***					
12. 31	37. 40							
12. 56	27. 35	10. 40	·1094					
			***					
13. 27	14. 20							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 16		Feb. 16						
h m	° ′ ″	h m		h m		h m	°	°
13. 40	21. 20. 35	11. 15	·1096					
			***					
13. 47	20. 0							
14. 16	30. 30	11. 55	·1102					
14. 37	41. 0	12. 7	·1110					
15. 16	28. 40	12. 20	·1104					
15. 45	35. 30	12. 35	·1088					
	***	12. 52	·1054					
16. 15	31. 30	13. 14	·1085					
	***	13. 25	·1079					
16. 41	36. 10	13. 43	·1110					
	***	13. 59	·1094					
17. 11	34. 30	14. 15	·1104					
17. 27	37. 40	14. 20	·1100					
17. 43	35. 30	14. 35	·1103					
	***	14. 45	·1114					
18. 27	37. 45	14. 54	·1109					
	***	15. 3	·1113					
19. 0	36. 0	15. 10	·1109					
	***	15. 27	·1112					
19. 13	33. 35	15. 59	·1077					
	***	16. 30	·1099					
19. 42	32. 50	16. 44	·1096					
	***	17. 7	·1082					
19. 58	35. 30	17. 45	·1092					
20. 19	33. 0		***					
	***	18. 29	·1112					
20. 39	36. 45	18. 45	·1108					
21. 0	32. 55	18. 59	·1116					
	***	19. 15	·1102					
21. 41	40. 50	19. 40	·1106					
	***	19. 52	·1104					
22. 47	36. 0	20. 10	·1113					
	***	20. 25	·1100					
23. 18	41. 10	20. 35	·1104					
23. 59	38. 25		***					
		20. 59	·1088					
		21. 16	·1083					
		21. 31	·1091					
		21. 53	·1079					
		22. 30	·1080					
		22. 55	·1074					
		23. 59	·1074					
Feb. 17		Feb. 17		Feb. 17		Feb. 17		
0. 0	21. 38. 25	0. 0	·1074	0. 0	·02293	1. 0	46 ·0	46 ·3
			***					
0. 10	37. 50			1. 25	·02212	3. 0	47 ·0	48 ·0
0. 24	40. 25	0. 25	·1080	3. 15	·01890	9. 0	52 ·5	53 ·0
0. 41	40. 10	0. 45	·1071	3. 30	·01913	21. 0	43 ·0	44 ·5
	***	1. 7	·1074	6. 0	·01842			
1. 52	42. 20	1. 43	·1068	6. 26	·01860			
2. 6	44. 20	1. 53	·1072	6. 31	·01930			
			***					
2. 21	41. 0			8. 22	·01944			
2. 30	42. 30	2. 16	·1049	12. 28	·02093			
3. 0	36. 0	2. 30	·1056	14. 22	·02208			
	***	2. 43	·1050	16. 30	·02397			
3. 52	35. 0	3. 25	·1080	17. 43	·02353			
4. 30	32. 25		***	20. 0	·02340			
4. 52	33. 30	4. 0	·1075	22. 15	·02290			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 17		Feb. 17		Feb. 17		h m	°	°
h m	° ′ ″	h m		h m				
5. 45	21. 32. 20	4. 52	·1088	23. 59	·02322			
6. 15	11. 40	5. 14	·1082					
6. 29	17. 20	5. 35	·1087					
6. 35	18. 45	5. 45	·1085					
6. 43	15. 30	6. 5	·1061					
7. 9	23. 55	6. 20	·1097					
7. 14	23. 45	6. 28	·1092					
7. 29	25. 30	6. 35	·1083					
7. 39	28. 45	6. 54	·1104					
7. 52	20. 30	7. 10	·1092					
8. 12	29. 0	7. 20	·1093					
8. 24	26. 10	7. 40	·1081					
8. 30	26. 15	7. 56	·1105					
8. 45	23. 45	8. 20	·1088					
9. 7	25. 50		***					
9. 28	23. 30	8. 45	·1096					
10. 1	31. 15	9. 18	·1076					
10. 12	31. 0		***					
10. 27	33. 40	10. 25	·1094					
10. 59	32. 15	10. 55	·1088					
11. 47	36. 0	11. 55	·1096					
12. 12	34. 20	12. 25	·1095					
12. 57	33. 30	12. 50	·1098					
13. 28	37. 55		***					
14. 8	34. 30	13. 45	·1092					
	***	15. 15	·1100					
15. 6	34. 25	15. 30	·1099					
15. 53	32. 30	16. 10	·1106					
16. 15	32. 20	16. 31	·1101					
16. 30	36. 0	16. 50	·1096					
17. 29	34. 0	17. 13	·1104					
	***	17. 35	·1100					
18. 30	35. 10	18. 55	·1110					
18. 52	33. 30		***					
	***	19. 40	·1100					
20. 0	34. 45	20. 5	·1108					
20. 8	33. 30	20. 14	·1102					
20. 33	33. 50	20. 35	·1102					
20. 57	32. 10	21. 5	·1092					
21. 14	35. 0		***					
	***	22. 30	·1078					
21. 52	34. 30		***					
22. 28	39. 10	23. 59	·1062					
	***							
23. 48	39. 0							
23. 59	38. 30							
Feb. 18		Feb. 18		Feb. 18		Feb. 18		
0. 0	21. 38. 30	0. 0	·1062	0. 0	·02322	1. 0	46 ·2	45 ·7
0. 7	38. 0	0. 15	·1064	0. 21	·02327	3. 0	49 ·5	48 ·7
1. 2	39. 20	0. 20	·1067	1. 44	·02237	9. 0	47 ·5	47 ·5
1. 59	38. 10	0. 38	·1063	5. 11	{·01833	21. 0	37 ·0	38 ·3
2. 12	38. 40	1. 0	·1073		{·01904			
2. 47	37. 10		***	5. 30	·01906			
2. 54	37. 30	1. 30	·1072	8. 45	·02090			
3. 11	36. 0		***	11. 45	·02318			
3. 29	35. 45	2. 0	·1074	13. 18	·02247			
3. 53	30. 45	2. 30	·1080	20. 55	·02173			
	***							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 18		Feb. 18		Feb. 18		h m	°	°
h m	° ′ ″	h m		h m				
4. 54	21. 30. 30	2. 38	·1078	23. 59	·02077			
5. 13	31. 50	2. 45	·1080					
5. 39	32. 10	3. 10	·1078					
6. 11:	33. 45	3. 20	·1084					
6. 53	26. 30	3. 43	·1078					
7. 12	30. 40		***					
7. 30	29. 15	5. 17	·1104					
8. 12	32. 50	5. 32	·1104					
9. 21	32. 30		***					
11. 15	32. 40	6. 32	·1098					
12. 12	31. 0	7. 5	·1123					
12. 45	30. 45	8. 5	·1110					
13. 9	33. 20	8. 30	·1110					
13. 48	30. 10	9. 20	·1116					
14. 44	33. 40	9. 45:	·1114					
15. 7	33. 20	12. 5	·1124					
15. 31	34. 0	12. 30	·1128					
	***	12. 42	·1124					
16. 58	32. 0	13. 13	·1134					
17. 29	31. 40	14. 12	·1126					
18. 12	33. 35	14. 32	·1128					
19. 9	32. 10	15. 0:	·1124					
19. 34	32. 30	16. 32	·1134					
21. 18	30. 30	17. 28	·1130					
21. 28	32. 0	19. 28	·1138					
22. 51	35. 15		***					
23. 12	34. 30	21. 15	·1129					
23. 28	35. 45	23. 0	·1104					
23. 59	36. 50	23. 59	·1106					
Feb. 19		Feb. 19		Feb. 19		Feb. 19		
0. 0	21. 36. 50	0. 0	·1106	0. 0	·02077	1. 36	41 ·3	43 ·0
0. 41	37. 45	0. 15	·1106	1. 59:	·01920	3. 0	43 ·5	44 ·5
0. 52	37. 25		***	3. 42	·01964	9. 0	44 ·6	46 ·3
2. 0	38. 0	1. 40	·1130	5. 12	·01725	21. 0	38 ·0	40 ·0
2. 18	37. 50		***	7. 25	·01676			
3. 41	33. 45	3. 15	·1108	9. 58	·01700			
4. 2	33. 35	4. 5	·1110	11. 10	·01737			
4. 52	28. 30	4. 40	·1102	11. 45	·01710			
5. 13	29. 10	5. 15:	·1109	14. 40	·01876			
5. 38	27. 35	6. 25	·1116	19. 21	·02256			
6. 9	26. 30		***	23. 11	·02167			
6. 32	28. 30	7. 12	·1105	23. 59	·02177			
6. 40	28. 20	7. 32	·1106					
7. 0	31. 0	7. 50	·1105					
7. 18	30. 40	8. 12	·1124					
7. 45	31. 55	8. 25	·1106					
8. 5	30. 50	8. 45	·1116					
8. 15	33. 20	9. 30	·1120					
8. 39	25. 40	10. 5	·1110					
9. 53	31. 25	10. 30	·1112					
10. 27	31. 10	10. 46	·1145					
10. 44	35. 10	11. 40:	·1118					
11. 19	28. 30	17. 12	·1136					
11. 35	29. 15	18. 32	·1130					
11. 44	28. 30		***					
12. 23	32. 25	22. 30	·1119					
	***	23. 5	·1114					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 19		Feb. 19						
h m	° ′ ″	h m		h m		h m	°	°
14. 47	21. 33. 30	23. 59	·1103					
15. 12	32. 30							
15. 22	33. 30							
16. 32	33. 45							
17. 8	32. 25							
18. 56	33. 10							
20. 4	33. 0							
20. 18	31. 25							
21. 52	33. 15							
22. 3	32. 20							
22. 12	33. 40							
22. 54	34. 30							
23. 11	37. 0							
	***							
23. 59	37. 0							
Feb. 20		Feb. 20		Feb. 20		Feb. 20		
0. 0	21. 37. 0	0. 0	·1103	0. 0	·02177	1. 0	42 ·0	42 ·2
0. 18	38. 25		***	1. 43:	·02039	3. 0	47 ·0	48 ·5
0. 59	36. 0	2. 50	·1104	3. 30	·01716	9. 0	48 ·0	47 ·5
2. 9	35. 20	4. 5	·1107	3. 43	·01738	22. 0	37 ·5	40 ·0
3. 47	31. 40	4. 20:	·1103	4. 41	·01696			
6. 2	31. 25	6. 20	·1104	5. 54	·01705			
6. 47	27. 40	6. 32	·1098	6. 10	·01740			
7. 9	30. 0	7. 0	·1105	6. 28	·01753			
7. 30	29. 40	7. 16	·1103	7. 6	·01804			
8. 14	31. 50	7. 35	·1108	9. 24	·01880			
8. 40	31. 30	7. 45	·1106	13. 45	·02180			
	***	8. 5	·1112	15. 2	·02287			
9. 37	33. 0	8. 42	·1116	21. 0	·02206			
	***	9. 3	·1108	23. 59	·02170			
10. 22	30. 40	9. 33	·1114					
	***	10. 0	·1108					
11. 23	33. 0	10. 32	·1116					
12. 14	31. 30	10. 45	·1112					
12. 31	32. 10		***					
12. 53	31. 30	14. 15	·1129					
13. 21	32. 50	15. 0	·1126					
14. 5	29. 20	22. 5	·1129					
	***	23. 59	·1122					
15. 17	32. 0							
15. 32	31. 10							
15. 52	32. 20							
16. 11	31. 40							
17. 30	33. 10							
20. 9	33. 15							
20. 40	32. 15							
21. 26	34. 5							
22. 22	35. 0							
22. 40	36. 30							
	***							
23. 45	37. 20							
23. 59	37. 10							
Feb. 21		Feb. 21		Feb. 21		Feb. 21		
0. 0	21. 37. 10	0. 0	·1122	0. 0	·02170	6. 30	42 ·2	44 ·0
0. 12	37. 0	0. 30	·1122	2. 32:	·02040	21. 0	37 ·3	41 ·2

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 21		Feb. 21		Feb. 21				
h m	° ′ ″	h m		h m		h m	°	°
0. 38	21. 37. 30	2. 12	·1120	6. 45:	·01664			
2. 29	35. 30	7. 12	·1132	9. 15	·01576			
4. 0	33. 0	8. 0	·1128	9. 34	·01557			
6. 52	31. 50	9. 22	·1124	13. 43	·01650			
9. 21	33. 55	9. 30	·1145	21. 43	{ ·02136			
9. 27	32. 50	9. 45	·1126		{ ·02043			
9. 38	36. 15	10. 30	·1125	23. 59	·01996			
10. 6	28. 35	11. 40	·1128					
10. 58	31. 50	12. 32	·1127					
	***	19. 45:	·1140					
11. 55	32. 25	21. 0	·1130					
12. 27	30. 50	22. 50	·1125					
12. 55	31. 45	23. 59	·1118					
13. 27	30. 40							
14. 0	31. 30							
14. 29	30. 50							
15. 0	32. 10							
15. 42	31. 10							
17. 54	32. 35							
19. 58	31. 50							
20. 36	30. 25							
23. 59	37. 10							
Feb. 22		Feb. 22		Feb. 22		Feb. 22		
0. 0	21. 37. 10	0. 0	·1118	0. 0	·01996	1. 0	42 ·4	44 ·0
0. 22	37. 40		***	0. 20	·01970	3. 0	44 ·5	46 ·0
0. 51	39. 20	0. 43	·1112		(†)	9. 0	46 ·0	46 ·2
1. 40	38. 20	1. 32	·1107	1. 0	·01920*	21. 0	39 ·0	41 ·0
1. 47	39. 40	1. 46	·1110	3. 0	·01716*			
2. 52	37. 45		***	7. 15	·01729			
3. 1	38. 20	2. 45	·1103	9. 30	·01780			
3. 26	37. 30	3. 5	·1108	13. 24	·01956			
3. 56	38. 20	3. 20	·1103	17. 15	·02270			
4. 28	37. 45		***	22. 19	·02200			
6. 15	33. 45	4. 32	·1107	23. 59	·02218			
6. 42:	34. 30		***					
7. 28	32. 30	7. 15	·1108					
	***	8. 12	·1125					
8. 0	33. 25		***					
	***	8. 45	·1118					
10. 2	32. 30	8. 50	·1124					
	***	9. 17	·1122					
15. 0	35. 0	10. 5	·1128					
15. 29	33. 30	10. 32	·1124					
	***	11. 37	·1128					
18. 59	34. 0	11. 45	·1128					
19. 40	32. 45		***					
19. 47	33. 20	19. 50	·1149					
20. 6	32. 0	20. 5	·1144					
20. 30	31. 55	20. 20	·1149					
20. 52	30. 50	21. 5	·1144					
21. 26	31. 55	21. 12	·1148					
21. 35	31. 15		***					
21. 43	32. 40	22. 32	·1129					
21. 58	32. 30	23. 59	·1125					
23. 57	37. 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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 23		Feb. 23		Feb. 23		Feb. 23		
h m	° ′ ″	h m		h m		h m	°	°
0. 3	21. 36. 30	0. 0	·1125	0. 0	·02218	1. 0	42 ·5	42 ·5
0. 22	36. 50	0. 40	·1116	1. 38	·02137	3. 0	46 ·2	47 ·0
0. 40	35. 10		***	5. 22	·01666	9. 0	47 ·2	48 ·0
1. 49	35. 0	1. 50	·1115	14. 10	·01638	21. 0	44 ·2	45 ·2
2. 8	36. 15		***	18. 45	·01750			
	***	3. 10	·1107	22. 30	·01939			
3. 0	36. 0	3. 35	·1112	23. 59	·01977			
3. 13	34. 40	3. 47	·1109					
3. 30	35. 10	4. 25	·1110					
3. 52	34. 30	5. 0	·1108					
4. 45	35. 10	7. 0	·1114					
6. 0	33. 15	7. 43	·1114					
10. 26	31. 30	8. 58	·1120					
10. 44	30. 40		***					
11. 15	28. 30	10. 54	·1113					
12. 30	31. 10	11. 29	·1118					
13. 22	34. 50		***					
14. 6	32. 30	12. 15	·1112					
15. 59	33. 15		***					
18. 44	32. 10	13. 25	·1114					
19. 55	32. 0	13. 45	·1121					
20. 59	30. 40	15. 30	·1122					
21. 46	30. 55		***					
23. 59	35. 50	20. 16	·1129					
		21. 0	·1126					
			***					
		23. 0	·1108					
			***					
		23. 59	·1102					
Feb. 24		Feb. 24		Feb. 24		Feb. 24		
0. 0	21. 35. 50		(†)	0. 0	·01977	1. 0	47 ·0	47 ·0
2. 2	37. 15	1. 35	·1103	1. 15	·01920	3. 0	51 ·2	50 ·1
2. 43	35. 45	2. 0	·1105	2. 44	·01722	9. 0	49 ·9	48 ·7
4. 42	32. 55	2. 35	·1100		·01764	21. 6	39 ·0	41 ·0
5. 58	32. 20		***	4. 26	·01792			
6. 28	33. 20	5. 15	·1104	4. 29	·01843			
	***	7. 0	·1112	4. 50	·01842			
11. 30	32. 10	9. 20	·1117	11. 45	·02390			
	***		***	21. 52	·02188			
14. 28	33. 45	12. 10	·1126		·02070			
14. 58	34. 45	13. 10	·1125	23. 59	·02040			
	***	13. 59	·1132					
16. 0	33. 30	14. 40	·1131					
	***		***					
17. 11	33. 55	16. 29	·1136					
17. 27	35. 40		***					
18. 13	33. 20	17. 35	·1135					
19. 12	34. 30	18. 7	·1141					
20. 15	32. 45	18. 45	·1139					
20. 27	31. 0	19. 43	·1145					
22. 30	32. 20		***					
22. 46	33. 40	20. 44	·1142					
23. 30	35. 0	22. 0	·1130					
23. 59	35. 10		***					
		23. 59	·1114					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 25		Feb. 25		Feb. 25		Feb. 25		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 35. 5	0. 0	·1114	0. 0	·02040	1. 0	42 ·2	42 ·2
0. 22	35. 30		***	1. 45	·01938	3. 0	46 ·0	46 ·0
0. 43	34. 40	3. 0	·1119	3. 47	·01644	9. 0	45 ·5	45 ·5
1. 56	34. 45	3. 22	·1116	5. 22	·01604	21. 0	36 ·0	38 ·2
4. 32	31. 30	5. 0	·1122	10. 22	·01740			
6. 0	30. 20	5. 35	·1124	12. 16	·01837			
6. 45	32. 0	6. 5	·1127	14. 48	·02020			
	***	6. 33	·1126	16. 43	·02190			
8. 14	31. 30	6. 53	·1128	21. 15	·02148			
9. 10	33. 30		***	23. 59	·02070			
10. 0	28. 50	8. 0	·1128					
10. 44	31. 50	8. 17	·1124					
11. 29	33. 0		***					
12. 16	31. 15	9. 20	·1130					
13. 41	34. 45	9. 45	·1137					
14. 7	36. 50	10. 0	·1147					
15. 17	30. 35	10. 30	·1134					
	***	10. 43	·1137					
18. 33	32. 20	10. 55	·1136					
	***	11. 37	·1141					
20. 0	30. 0	12. 55	·1140					
20. 10	29. 10		***					
21. 12	29. 30	14. 0	·1139					
23. 59	37. 35	14. 27	·1148					
		15. 0	·1150					
		15. 37	·1146					
		16. 27	·1149					
			***					
		19. 35	·1154					
			***					
		22. 0	·1138					
			***					
		23. 0	·1130					
		23. 59	·1132					
Feb. 26		Feb. 26		Feb. 26		Feb. 26		
0. 0	21. 37. 35	0. 0	·1133	0. 0	·02070	1. 0	40 ·4	41 ·0
0. 37	37. 40	1. 25	·1126	1. 28	·01990	3. 0	41 ·5	43 ·0
4. 5	30. 0	2. 24	·1128	4. 0	·01613	9. 0	45 ·4	46 ·0
5. 13	29. 40	3. 25	·1125	7. 13	·01610	21. 0	39 ·7	41 ·6
7. 0	32. 10	4. 1	·1118	11. 22	·01647			
10. 0	32. 0	5. 45	·1119	15. 0	·01749			
14. 3	33. 5	7. 35	·1128	21. 53	·02087			
16. 7	32. 30	14. 37	·1144	23. 4	·02124			
	***	17. 30	·1146	23. 59	·02106			
20. 22	30. 0		***					
	***	20. 30	·1138					
23. 59	38. 40	21. 30	·1130					
		22. 10	·1130					
		22. 40	·1125					
			***					
		23. 59	·1130					
Feb. 27		Feb. 27		Feb. 27		Feb. 27		
0. 0	21. 38. 40	0. 0	·1130	0. 0	·02106	1. 0	45 ·2	44 ·4
0. 10	40. 20		***	1. 48	·01962	3. 0	48 ·2	47 ·2
0. 34	38. 45	2. 18	·1128	3. 30	·01707	9. 0	47 ·0	46 ·3
0. 56	37. 40		***	5. 18	·01766	21. 50	39 ·5	40 ·0

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 27		Feb. 27		Feb. 27				
h m	° ′ ″	h m		h m		h m	°	°
1. 8	21. 40. 0	2. 55	·1134	9. 34	·01970			
1. 39	36. 0	3. 7	·1128	11. 20	·01995			
1. 54	36. 0		***	12. 30	·02084			
2. 35	34. 0	4. 0	·1138	14. 7	·02246			
2. 59	34. 55		***	14. 30	·02208			
3. 15	33. 20	4. 44	·1126	16. 20	·02237			
	***		***	20. 14	·02190			
4. 0	33. 0	5. 7	·1132	23. 59	·02120			
4. 41	31. 25	5. 15	·1122					
5. 6	32. 30		***					
5. 52	31. 30	5. 25	·1120					
	***	5. 54	·1128					
7. 35	33. 20	6. 10	·1123					
8. 26	29. 15	6. 35:	·1125					
8. 56	30. 50	7. 5	·1117					
10. 6	29. 55	7. 28	·1114					
10. 29	28. 0	7. 40	·1117					
10. 40	29. 0	7. 50	·1112					
11. 12	26. 45	8. 9	·1121					
11. 41	30. 55	8. 18	·1118					
12. 18	28. 20	8. 38	·1124					
12. 40	32. 0	8. 57	·1120					
13. 15	39. 0		***					
	***	9. 40	·1130					
13. 46	39. 0		***					
14. 12	32. 50	9. 52	·1126					
14. 15	33. 40	10. 14	·1134					
14. 26	30. 55	10. 22	·1126					
14. 45	33. 30	10. 30	·1132					
15. 6	32. 55	10. 39	·1130					
15. 15	34. 30	10. 59	·1154					
15. 27	33. 15	11. 17	·1131					
15. 36	35. 0	11. 45	·1141					
15. 52	33. 30	12. 7	·1139					
16. 15	36. 15	12. 24	·1132					
17. 9	34. 10		***					
17. 35	34. 0	12. 50	·1133					
18. 13	32. 30	12. 59	·1138					
19. 26	32. 0	13. 10	·1130					
20. 0	30. 30	13. 25	·1132					
	***	13. 47	·1149					
21. 14	32. 0		***					
23. 0	38. 20	14. 9	·1143					
23. 44	39. 15	14. 17	·1136					
23. 59	38. 30	14. 25	·1142					
		14. 58	·1134					
		15. 10	·1136					
		15. 24	·1134					
		16. 16	·1143					
		16. 43	·1143					
		18. 0	·1152					
			***					
		19. 28	·1147					
			***					
		20. 10	·1139					
			***					
		22. 10	·1128					
		22. 30	·1128					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Feb. 27 h m		h m		h m	°	°
		23. 0	·1123					
		23. 59	·1128					
Feb. 28		Feb. 28		Feb. 28		Feb. 28		
0. 0	21. 38. 30	0. 0	·1128	0. 0	·02120	7. 30	39 ·5	41 ·5
0. 18	38. 10	0. 36	·1135	3. 52	·02057	21. 0	36 ·0	38 ·2
1. 15	39. 30	1. 55	·1132	9. 58:	·01974			
1. 58	37. 30	2. 29	·1138	16. 53	·02137			
2. 22	37. 45	3. 0	·1133	17. 7	·02106			
2. 45	36. 30	5. 40	·1138	21. 15	{·02150			
3. 11	36. 20	7. 25	·1146		{·01822			
4. 14	33. 0		***	23. 59	·01807			
5. 18	31. 45	15. 16	·1149					
6. 0	32. 25	16. 45	·1154					
8. 9	31. 25		***					
15. 4	33. 55	18. 24	·1153					
15. 36	35. 0	19. 30:	·1156					
16. 44	33. 5	22. 0	·1133					
17. 23	33. 40	23. 49	·1114					
17. 45	32. 15		(†)					
	***							
20. 7	28. 30							
20. 23	28. 35							
23. 16	40. 55							
23. 56	41. 55							
Mar. 1		Mar. 1		Mar. 1		Mar. 1		
	(†)	0. 0	·1114	0. 0	·01807	1. 0	39 ·5	39 ·5
0. 30	21. 41. 50	0. 30	·1111	1. 23	·01777	3. 0	40 ·8	41 ·3
1. 23	43. 0	0. 39	·1116		(†)	9. 0	42 ·4	41 ·8
	(†)	1. 23	·1116	3. 0	·01696*	21. 0	39 ·0	40 ·8
3. 0	42. 46*		(†)	3. 44	·01920			
8. 55	25. 45	3. 0	·1123	4. 22	·01864			
9. 39	29. 30	8. 55	·1106		***			
10. 15	28. 45	9. 15	·1116	5. 28	·01917			
10. 30	29. 30		***	5. 40	·02096			
10. 48	21. 20	10. 29	·1108	5. 50	·02000			
11. 22	15. 0	10. 53	·1129		***			
11. 45	15. 0	11. 21	·1103	6. 21	·01946			
11. 49	21. 30	11. 40	·1108	6. 41	·01968			
11. 53	20. 5	11. 55	·1159	6. 52	·01913			
12. 1	26. 50	12. 13	·1104	7. 23	·01837			
12. 12	25. 15	12. 28	·1104	8. 15	·01766			
12. 26	26. 0	12. 35	·1110	10. 45	·01696			
12. 55	33. 20	12. 42	·1109	11. 30	·01628			
13. 13	32. 0	12. 55	·1115	12. 12	·01660			
13. 23	33. 50	13. 14	·1108	12. 27	·01587			
13. 49	32. 30	13. 39	·1116	13. 7	·01648			
14. 14	33. 35		***	14. 53	·01739			
	***	14. 47	·1115	20. 0	·01860			
18. 24	32. 0		***	23. 59	·01890			
	***	16. 52	·1120					
20. 18	30. 0		***					
	***	19. 7:	·1127					
21. 42	30. 50		***					
	***	21. 5	·1115					
22. 13	35. 20		***					
	***	21. 43	·1100					
		21. 55	·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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 1		Mar. 1						
h m	° ′ ″	h m		h m		h m	°	°
22. 39	21. 35. 0	23. 0	·1076					
	***		***					
23. 59	40. 45	23.5 9	·1082					
Mar. 2		Mar. 2		Mar. 2		Mar. 2		
0. 0	21. 40. 50	0. 0	·1083	0. 0	·01890	1. 0	42 ·2	41 ·4
	***		***	3. 33	·01839	3. 0	40 ·0	41 ·7
0. 56	42. 45	0. 55	·1091	5. 40	·01737	9. 0	42 ·0	42 ·0
1. 13	42. 0		***	8. 15	·01737	21. 5	37 ·2	39 ·2
1. 41	43. 0	1. 15	·1088	12. 11	·01838			
1. 51	42. 30		***	15. 27	·01940			
1. 59	43. 40	2. 25	·1100	15. 40	·01899			
2. 4	43. 0		***	16. 25	·01895			
2. 13	44. 15	3. 0	·1081	17. 52	·01809			
	***		***	20. 12	·01850			
2. 50	44. 0	4. 5	·1104	23. 59	·01770			
3. 54	36. 40		***					
4. 32	37. 30	5. 30	·1104					
5. 53	33. 20	5. 54	·1111					
6. 41	35. 0	6. 6	·1106					
7. 1	33. 0	6. 46	·1107					
7. 24	33. 25	6. 55	·1113					
7. 51	18. 20	7. 23	·1112					
8. 3	18. 35	7. 40	·1106					
8. 53	30. 25		***					
9. 10	28. 50	8. 5	·1130					
9. 36	31. 50	8. 17	·1118					
9. 44	31. 10	8. 25	·1121					
11. 22	32. 45	8. 33	·1114					
12. 46	30. 40	8. 45	·1116					
13. 54	33. 55	9. 0	·1111					
14. 25	37. 10		***					
15. 29	31. 30	10. 14	·1120					
15. 38	35. 0	10. 20	·1126					
15. 51	32. 0	10. 40	·1121					
16. 19	38. 25	11. 6	·1118					
16. 52	44. 35	11. 25	·1122					
17. 15	40. 35	11. 35	·1128					
17. 41	39. 40	12. 0	·1125					
17. 58	35. 10	12. 30	·1127					
	***		***					
18. 44	34. 45	13. 13	·1124					
19. 7	37. 40		***					
19. 27	33. 40	13. 36	·1126					
20. 19	33. 0	14. 22	·1126					
	***		***					
20. 51	34. 5	15. 0	·1134					
21. 15	32. 30	15. 14	·1129					
22. 22	33. 40		***					
22. 58	37. 20	15. 40	·1130					
23. 20	40. 5	16. 5	·1150					
23. 38	36. 15	16. 23	·1140					
23. 59	36. 45		***					
		16. 52	·1154					
			***					
		17. 30	·1158					
			***					
		18. 5	·1138					
			***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Mar. 2						
h m	° ′ ″	h m		h m		h m	°	°
		19. 0	·1138					
			***					
		19. 54	·1124					
			***					
		20. 15	·1126					
		21. 7	·1115					
		21. 45	·1105					
		22. 15	·1105					
		22. 25	·1100					
		22. 45	·1100					
		23. 15	·1072					
		23. 59	·1099					
Mar. 3		Mar. 3		Mar. 3		Mar. 3		
0. 0	21. 36. 50		(†)	0. 0	·01770	1. 0	40 ·4	41 ·4
0. 12	38. 30	0. 15	·1102	1. 30	·01682	3. 0	41 ·0	42 ·6
0. 40	37. 30		***	4. 0	·01712	9. 0	43 ·2	43 ·0
0. 57	38. 30	0. 45	·1109	5. 0	·01680	21. 6	37 ·2	38 ·2
1. 44	39. 20	1. 40	·1111	6. 11	·01692			
2. 34	37. 25	1. 46	·1106	7. 45	·01657			
	***	2. 7	·1106	10. 52	·01686			
3. 24	37. 20	2. 16	·1112	15. 16	·01863			
3. 43	36. 10	2. 31	·1105	21. 3	·02204			
3. 46	37. 5	2. 55	·1113	22. 45	·02210			
4. 9	35. 0		***	23. 44	·02178			
4. 15	35. 30	3. 40	·1109		(†)			
4. 40	32. 50	3. 50	·1118					
4. 59	34. 30	4. 2	·1108					
5. 15	33. 30	4. 23	·1122					
5. 19	33. 40	4. 37	·1122					
5. 42	30. 30	4. 45	·1113					
5. 59	30. 30	5. 10	·1117					
6. 11	28. 40	5. 16	·1104					
6. 16	30. 20	5. 40	·1118					
6. 37	28. 5	5. 50	·1118					
6. 58	29. 30	6. 7	·1100					
7. 26	33. 30	7. 10	·1123					
7. 45	33. 0	7. 30	·1117					
8. 28	35. 10	7. 50	·1118					
11. 13	33. 0		***					
17. 33	33. 30	8. 30	·1126					
18. 58	31. 0	8. 54	·1122					
19. 6	32. 0		***					
19. 43	30. 10	14. 29	·1126					
21. 47	31. 40	14. 45	·1133					
23. 59	36. 10	15. 0	·1129					
			***					
		18. 15	·1136					
			***					
		22. 40	·1100					
		23. 59	·1100					
Mar. 4		Mar. 4		Mar. 4		Mar. 4		
0. 0	21. 36. 10	0. 0	·1100		(†)	1. 0	42 ·5	42 ·3
0. 57	37. 45		***	0. 15	·02173	3. 0	47 ·0	46 ·0
3. 15	36. 20	2. 45	·1106	1. 43	·02013	9. 0	48 ·3	47 ·5
4. 12	33. 20		***	2. 57	·01770	21. 0	41 ·0	42 ·5
4. 21	33. 20	4. 10	·1102	4. 2	·01823			
4. 41	32. 10	4. 30	·1104	5. 54	·01806			
			***	7. 56	·01875			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 4		Mar. 4		Mar. 4				
h m	° ′ ″	h m		h m		h m	°	°
6. 10	21. 30. 40	6. 10	·1109	9. 52	·01890			
6. 16	31. 15		***	13. 15	·02038			
6. 52	31. 0	7. 7	·1088	17. 12	·02366			
7. 17	22. 30	7. 23	·1100	21. 25	·02322			
7. 33	25. 5	7. 40	·1094		·02256			
7. 44	23. 55	7. 50	·1102	22. 45	·02249			
8. 29	32. 0	8. 20	·1101		·02187			
8. 53	29. 20	9. 6	·1111	23. 59	·02168			
9. 21	32. 10	9. 30	·1127					
9. 45	29. 15	9. 55	·1118					
10. 28	32. 40	10. 40	·1117					
10. 47	32. 0	11. 6	·1120					
13. 9	33. 40		***					
13. 59	33. 10	12. 50	·1120					
14. 15	33. 45	13. 20	·1125					
17. 11	33. 40	13. 35	·1123					
19. 51	28. 30		***					
20. 30	27. 50	18. 45:	·1132					
22. 13	32. 25		***					
22. 36	34. 40	20. 45	·1120					
22. 44	37. 30		***					
22. 52	36. 5	23. 0	·1104					
23. 19	38. 0	23. 25	·1094					
23. 59	38. 30		***					
		23. 53	·1092					
		23. 59	·1095					
Mar. 5		Mar. 5		Mar. 5		Mar. 5		
0. 0	21. 38. 30	0. 0	·1096	0. 0	·02168	1. 0	43 ·7	43 ·5
0. 43	39. 40		***	0. 36	·02166	3. 0	44 ·0	45 ·6
0. 56	41. 30	0. 50	·1109	2. 39	·02058	9. 0	47 ·4	48 ·0
1. 35	37. 40	1. 30	·1102	5. 12	·01777	21. 0	41 ·0	41 ·7
1. 54	38. 0		***	5. 36	·01756			
1. 58	39. 15	2. 15	·1111		***			
2. 41	37. 45	2. 30	·1108	7. 12	·01857			
2. 58	40. 20	2. 51	·1124	10. 7	·01736			
3. 21	38. 30	3. 0	·1125	11. 58	·01760			
3. 28	38. 35	3. 13	·1116	13. 13	·01830			
3. 59	35. 30	3. 25	·1116	17. 33	·02333			
4. 7	36. 10	3. 47	·1104	17. 43	·02308			
4. 17	34. 50	4. 0	·1106	19. 23	·02300			
4. 26	35. 5	4. 9	·1103		·02249			
4. 54	33. 45		***	23. 59	·02117			
5. 40	34. 30	5. 14	·1113					
5. 51	32. 0	5. 25	·1112					
6. 27	30. 50	5. 35	·1126					
7. 12	8. 45	5. 43	·1119					
7. 23	14. 0	5. 59	·1132					
7. 40	24. 0	6. 30	·1084					
7. 44	23. 0	6. 44	·1080					
8. 29	33. 0	7. 0	·1102					
8. 44	31. 25	7. 10	·1089					
9. 21	33. 40	7. 17	·1112					
9. 45	32. 30	7. 25	·1088					
11. 13	33. 40	7. 30	·1089					
12. 8	30. 10	7. 42	·1083					
12. 36	37. 15	7. 55	·1084					
13. 8	33. 35	8. 5	·1090					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
15. 40	21. 35. 5	9. 5	·1106					
16. 39	33. 50		***					
16. 56	31. 25	10. 25	·1114					
	***		***					
17. 57	33. 40	11. 30	·1112					
	***	11. 45	·1124					
19. 7	32. 5	11. 59	·1116					
19. 18	31. 0	12. 10	·1118					
20. 14	30. 50	12. 31	·1112					
20. 24	29. 20	12. 43	·1117					
20. 49	30. 45	12. 50	·1116					
21. 44	35. 40	14. 0	·1118					
21. 57	35. 15	14. 10	·1116					
22. 28	38. 30		***					
22. 57	36. 45	16. 30	·1125					
23. 15	39. 10	17. 20	·1133					
23. 35	37. 25	17. 30	·1126					
23. 59	39. 20		***					
		18. 5	·1122					
		18. 40	·1128					
			***					
		20. 30	·1127					
		21. 10	·1112					
		21. 28	·1112					
		22. 14	·1093					
		23. 15	·1106					
		23. 30	·1102					
		23. 45	·1106					
			(†)					
Mar. 6		Mar. 6		Mar. 6		Mar. 6		
0. 0	21. 39. 20	0. 0	·1106	0. 0	·02117	1. 0	43 ·7	44 ·0
0. 15	43. 30	0. 15	·1112		***	3. 0	46 ·0	45 ·0
0. 45	38. 0	0. 25	·1104	3. 50	·01877	9. 0	45 ·5	45 ·5
1. 7	46. 35	0. 54	·1102	4. 24	·01813	22. 45	37 ·2	38 ·5
1. 14	43. 40	1. 10	·1124	7. 45	·01730			
1. 26	46. 50	1. 22	·1105	11. 11	·01796			
1. 39	44. 40	1. 31	·1108	11. 29	·01763			
2. 27	42. 30	1. 50	·1091	17. 52	·02300			
2. 33	44. 40	2. 26	·1100	21. 27	·02250			
2. 47	39. 50	2. 45	·1088	21. 52	·02217			
2. 53	40. 10	3. 17	·1111	23. 59	·02024			
2. 59	39. 30	3. 35	·1094					
3. 5	40. 30	3. 55	·1106					
3. 15	37. 35	4. 10	·1101					
3. 26	37. 45	4. 18	·1101					
3. 44	31. 30	4. 25	·1095					
3. 53	32. 30	4. 39	·1095					
4. 0	32. 25	4. 51	·1102					
4. 14	34. 0	5. 20	·1104					
4. 29	34. 0	5. 54	·1104					
4. 41	33. 15	6. 13	·1100					
4. 52	33. 15	6. 30	·1102					
6. 14	31. 5	6. 40	·1100					
6. 30	32. 30	6. 55	·1104					
7. 10	27. 20	7. 6	·1102					
7. 21	28. 40	7. 20	·1107					
7. 39	24. 30	7. 38	·1102					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 6		Mar. 6						
h m	° ′ ″	h m		h m		h m	°	°
7. 58	21. 27. 0	7. 50	·1108					
9. 52	33. 0	8. 7	·1110					
10. 17	31. 30	8. 25	·1120					
10. 44	31. 45	9. 0	·1110					
10. 48	28. 10	9. 20	·1116					
11. 12:	33. 55	10. 0	·1120					
11. 30	31. 30	10. 45	·1119					
11. 47	33. 0	11. 0	·1168					
	***	11. 35	·1122					
14. 2	34. 30	12. 10	·1125					
	***	12. 30	·1126					
15. 30	34. 0	13. 40	·1128					
16. 9	33. 0		***					
16. 36	33. 45	14. 17	·1133					
19. 15	32. 30	14. 25	·1131					
20. 0	30. 25	16. 0	·1134					
20. 47	33. 0	16. 30	·1133					
20. 52	32. 10	18. 0	·1136					
21. 40	32. 55	19. 0	·1136					
23. 59	39. 0		***					
		20. 10	·1142					
		21. 0	·1130					
		23. 0	·1118					
		23. 59	·1122					
Mar. 7		Mar. 7		Mar. 7		Mar. 7		
0. 0	21. 39. 0	0. 0	·1122	0. 0	·02024	6. 57	40 ·7	41 ·7
0. 57	39. 40	0. 20	·1122	3. 0	·01985	21. 0	40 ·2	41 ·6
1. 18	38. 25	1. 44	·1132	7. 10	·01792			
1. 45	38. 30		***	9. 52	·01730			
4. 0	34. 30	3. 40	·1132	12. 39	·01785			
4. 9	36. 0	4. 0	·1135	16. 7	·01704			
4. 43	33. 50		***	18. 44	·01664			
5. 56	33. 45	4. 5	·1142	23. 59	·01683			
6. 40	32. 40	4. 40	·1130					
7. 6	32. 30	4. 58	·1134					
7. 21	31. 30	5. 10	·1130					
7. 33	31. 45	6. 24	·1136					
7. 50	31. 10	7. 10	·1132					
8. 18	32. 55	8. 35	·1138					
8. 40	28. 30	12. 45	·1137					
9. 19	33. 0	13. 0	·1140					
9. 43	31. 50	13. 39	·1135					
10. 28	32. 25	14. 20	·1143					
11. 34	31. 55		***					
12. 51	32. 45	17. 25	·1134					
13. 15	32. 0	18. 0	·1142					
13. 52	33. 20		***					
14. 18	30. 50	19. 42	·1134					
15. 14	30. 40	20. 14	·1136					
15. 30	29. 30	21. 28	·1122					
15. 54	29. 10	21. 50	·1125					
17. 44	31. 50	22. 45	·1117					
18. 15	30. 20		***					
	***	23. 59	·1119					
20. 41	31. 20							
21. 41	34. 0							

Greenwich Mean Solar Time.	Western Declination	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 7								
h m	° ′ ″	h m		h m		h m	°	°
22. 43	21. 34. 15							
	***							
23. 59	38. 25							
Mar. 8		Mar. 8		Mar. 8		Mar. 8		
0. 0	21. 38. 25	0. 0	·1119	0. 0	·01683	1. 0	44 ·0	43 ·6
	***	0. 11	·1116	1. 28	·01657	3. 0	46 ·2	45 ·5
0. 43	41. 10	0. 42	·1125	3. 40	·01737	9. 0	45 ·4	45 ·2
1. 9	39. 0	1. 0	·1119	7. 25	·01690	21. 0	36 ·5	38 ·0
1. 14	39. 50	1. 15	·1122	10. 15	·01740			
1. 29	38. 0	1. 30	·1117	12. 40	·01893			
2. 0	37. 30	2. 0	·1120	17. 0	·02296			
2. 12	38. 25	2. 13	·1126	21. 7	·02225			
	***	2. 55	·1118	21. 39	·02142			
4. 15	31. 30		***	23. 59	·02026			
4. 36	31. 50	4. 10	·1114					
5. 26	31. 10		***					
6. 44	32. 30	4. 37	·1118					
7. 29	31. 0	4. 55	·1114					
10. 39	32. 30	5. 30	·1118					
11. 54	33. 30	7. 13	·1118					
12. 11	35. 30	7. 55	·1125					
12. 39	33. 40	8. 8	·1121					
	***	9. 35	·1128					
15. 36	35. 10		***					
	***	12. 10	·1134					
16. 43	32. 40	12. 25	·1144					
	***	13. 10:	·1134					
19. 41	32. 30		***					
19. 55	31. 10	16. 58	·1144					
22. 43	35. 10	17. 14	·1141					
23. 8	37. 20	19. 14	·1145					
23. 59	37. 35		***					
		20. 30:	·1142					
			***					
		22. 30	·1128					
		23. 0	·1128					
		23. 25	·1124					
		23. 59	·1119					
Mar. 9		Mar. 9		Mar. 9		Mar. 9		
0. 0	21. 37. 35	0. 0	·1119	0. 0	·02026	1. 0	41 ·4	41 ·2
0. 37	38. 30		***	0. 40	·01993	3. 0	45 ·0	44 ·0
2. 53	36. 20	3. 0	·1119	3. 3	·01744	9. 0	46 ·8	47 ·0
3. 30	34. 0	4. 0:	·1114		·01913	21. 0	39 ·0	40 ·7
5. 30	31. 30		***	4. 22	·01757			
7. 58	33. 30	5. 35	·1118	7. 11	·01697			
	***	7. 15:	·1118	10. 22	·01727			
14. 21	34. 0		***	14. 45	·01892			
	***	11. 15	·1129	20. 55	·02290			
18. 52	31. 45	14. 0	·1130	21. 30	·02270			
20. 23	28. 30	18. 30:	·1136	22. 50	·02273			
20. 40	29. 0	21. 18	·1118	23. 59	·02235			
20. 54	28. 35		***					
23. 59	37. 30	23. 15	·1108					
		23. 59	·1107					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 10		Mar. 10		Mar. 10		Mar. 10		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 37. 30	0. 0	·1107	0. 0	·02235	1. 0	44 ·2	44 ·0
0. 55	39. 0		***	1. 50	·02070	3. 0	47 ·3	46 ·8
2. 0	37. 45	2. 10	·1103	3. 40	·01785	9. 0	47 ·3	47 ·3
2. 13	37. 50	3. 0	·1108	6. 40	·01745	21. 0	37 ·0	40 ·0
3. 0	36. 30	4. 0	·1109	5. 52	·01766			
3. 14	36. 45		***	12. 31:	·01928			
4. 15	33. 15	5. 0	·1106	17. 40	·02337			
6. 0	31. 20		***	23. 59	·02200			
7. 39	33. 0	6. 13	·1106					
8. 9	32. 30		***					
9. 30	33. 0	7. 59	·1118					
10. 6	32. 30		***					
13. 30	34. 30	9. 5	·1118					
15. 40	34. 0	16. 50	·1136					
16. 13	34. 50	18. 55	·1138					
	***	20. 0	·1134					
18. 59	32. 50	21. 29	·1117					
19. 41	29. 30	22. 14	·1119					
20. 13	28. 30	22. 40	·1114					
20. 42	30. 0	23. 55	·1117					
20. 50	29. 35							
21. 39	30. 40							
23. 30	38. 20							
23. 59	39. 30							
Mar. 11		Mar. 11		Mar. 11		Mar. 11		
1. 0	21. 39. 16*		(†)	0. 0	·02200	1. 0	48 ·7	41 ·6
3. 0	36. 47*	1. 0	·1117*	2. 56	·02027	3. 0	44 ·0	44 ·5
9. 0	30. 54*	3. 0	·1124*	4. 28	·01762	9. 0	47 ·5	47 ·5
21. 0	27. 27*	3. 30	·1124	7. 15	·01739	21. 0	38 ·5	39 ·5
		4. 15:	·1116	10. 0	·01817			
		6. 25	·1120	13. 45	·01977			
		8. 0	·1121	18. 11	·02338			
		9. 10	·1126	21. 31	·02260			
		13. 20	·1132		(†)			
		13. 30	·1139	22. 22	·01921			
			***	23. 59	·01860			
		14. 52	·1139					
			***					
		18. 30:	·1147					
		22. 30	·1120					
			***					
		23. 30	·1119					
		23. 45	·1113					
		23. 59	·1119					
Mar. 12		Mar. 12		Mar. 12		Mar. 12		
	(†)	0. 0	·1120	0. 0	·01860	1. 0	40 ·8	41 ·4
0. 51	21. 40. 30	0. 50	·1118	2. 55	{·01677	3. 0	43 ·5	43 ·5
1. 10	41. 30		***		{·01837	9. 0	46 ·0	45 ·2
1. 50	40. 50	1. 10	·1120	5. 21	·01664	21. 0	42 ·3	44 ·0
2. 16	42. 30	1. 48	·1116	7. 24	·01638			
	***	2. 4	·1124	11. 7	·01707			
3. 15	35. 30		***	11. 28	·01688			
3. 29	36. 20	2. 55	·1112	14. 7	·01810			
4. 26	33. 45	3. 8	·1116	14. 22	·01793			
5. 32	32. 0	3. 15	·1107	14. 56	·01844			
5. 37	32. 20	4. 52	·1121	15. 38	·01820			

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 12		Mar. 12		Mar. 12				
h m	° ′ ″	h m		h m		h m	°	°
6. 13	21. 29. 30	5. 25	·1119	15. 58	·01874			
6. 38	30. 45	5. 44	·1125	16. 12	·01828			
7. 7	29. 15	6. 15	·1117	16. 30	·01830			
7. 29	30. 5	6. 55	·1120	16. 51	·01894			
7. 42	29. 30		***	17. 12	·01864			
8. 15	31. 0	7. 30	·1113	17. 16	·01900			
8. 44	29. 30		***	17. 40	·01847			
9. 41	29. 5	8. 25	·1125	17. 52	·01894			
9. 52	30. 30		***	18. 30	·01840			
10. 11	30. 0	9. 25	·1128	18. 44	·01856			
10. 18	31. 20	9. 40	·1125	18. 59	·01847			
10. 44	31. 30	10. 0	·1130	19. 15	·01850			
11. 42	26. 15	10. 25	·1133		***			
12. 15	31. 5	10. 45	·1126	21. 56	·01670			
12. 43	27. 0	11. 12	·1143	22. 59	{·01553			
13. 13	31. 30		***		{·01583			
13. 30	30. 15	12. 5	·1132	23. 59	·01645			
13. 56	33. 45	12. 30	·1142					
14. 28	22. 50	13. 0	·1132					
15. 10	38. 20	13. 43	·1141					
15. 13	37. 0	13. 55	·1138					
15. 15	38. 30	14. 5	·1143					
15. 30	31. 30	14. 33	·1134					
15. 46	45. 55	14. 45	·1138					
16. 22	28. 30	14. 55	·1151					
16. 46	43. 5	15. 5	·1142					
16. 52	45. 0	15. 26	·1160					
16. 58	41. 10	15. 45	·1135					
17. 14	51. 0	16. 0	·1172					
17. 30	40. 25	16. 15	·1154					
17. 44	44. 25	16. 39	·1116					
17. 51	41. 30	16. 55	·1126					
	***	17. 5	·1113					
18. 13	44. 55	17. 10	·1126					
18. 30	38. 30	17. 22	·1122					
18. 41	41. 50	17. 40	·1094					
18. 52	41. 0	18. 3	·1113					
	***	18. 14	·1107					
19. 7	41. 25	18. 27	·1112					
19. 15	43. 20	18. 39	·1095					
19. 30	38. 0	18. 50	·1104					
19. 36	40. 0	19. 10	·1082					
19. 44	38. 0	19. 24	·1081					
19. 49	43. 30	19. 32	·1072					
20. 9	36. 40	19. 45	·1086					
20. 15	37. 30	19. 50	·1076					
20. 29	34. 25	20. 0	·1095					
20. 40	39. 25	20. 15	·1094					
21. 0	34. 0	20. 32	·1080					
21. 22	35. 30	20. 44	·1078					
21. 39	42. 0	20. 50	·1069					
21. 42	44. 0		***					
21. 51	40. 45	21. 20	·1071					
21. 54	42. 30	22. 0	·1100					
21. 58	41. 50	22. 17	·1098					
22. 2	43. 30	22. 28	·1089					
	***	23. 8	·1082					
22. 44	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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 12		Mar. 12						
h m	° ′ ″	h m		h m		h m	°	°
22. 51	21. 41. 10	23. 54	·1082					
23. 2	41. 20		(†)					
23. 15	40. 15							
23. 29	42. 30							
23. 53	41. 30							
	(†)							
Mar. 13		Mar. 13		Mar. 13		Mar. 13		
	(†)	0. 0	·1092	0. 0	·01645	1. 0	47 ·3	47 ·5
0. 10	21. 46. 0		***		***	3. 0	50 ·7	50 ·4
0. 28	46. 15	0. 40	·1091	2. 14	·01839	9. 0	52 ·4	52 ·0
0. 52	42. 30	1. 0	·1084	5. 23	·01907	22. 35	46 ·0	47 ·0
1. 19	49. 0	1. 13	·1094	6. 2	·01904			
1. 44	42. 0	1. 45	·1078	6. 42	·01940			
1. 51	43. 20	2. 0	·1089	8. 15	·01930			
1. 59	42. 55	2. 14	·1098	8. 26	·01963			
2. 13	44. 30	2. 30	·1099	8. 42	·01907			
2. 22	43. 20	2. 42	·1092	10. 22	·01810			
2. 30	43. 45	2. 53	·1098	12. 15	·01866			
2. 35	43. 0	3. 15	·1083	12. 52	·01730			
2. 46	46. 0	3. 30	·1095	13. 12	·01810			
3. 15	41. 55	3. 45	·1100	14. 0	·01855			
	***	3. 54	·1108	14. 42	·01917			
3. 44	41. 0	4. 10	·1106	15. 22	·01977			
3. 50	41. 55	4. 14	·1100	16. 30	·02000			
4. 29	42. 20	4. 30	·1101	17. 18	·02033			
4. 54	43. 20	4. 36	·1105	17. 40	·02014			
5. 28	41. 10		***	17. 45	·01960			
5. 49	40. 25	5. 15	·1105	18. 10	·01966			
6. 14	41. 10	5. 26	·1095	20. 10	·02300			
6. 45	37. 15	5. 35	·1093	21. 22	·02413			
	***	6. 0	·1101	22. 0	·02392			
7. 15	38. 20	6. 18	·1091	23. 59	·02423			
7. 28	36. 50	7. 10	·1100					
7. 41	37. 45	7. 16	·1095					
7. 51	36. 50	7. 32	·1098					
8. 12	19. 30	7. 40	·1095					
8. 18	21. 0	7. 47	·1098					
8. 29	18. 25	7. 50	·1088					
8. 42	28. 10	8. 8	·1095					
8. 47	28. 0	8. 15	·1077					
8. 52	31. 0	8. 35	·1088					
9. 5	31. 0		***					
9. 14	32. 25	8. 49	·1082					
9. 30	28. 0	9. 10	·1085					
9. 43	30. 0	9. 17	·1082					
9. 50	28. 40	9. 43	·1099					
9. 59	31. 0	9. 57	·1091					
10. 11	29. 15	10. 9	·1082					
10. 44	33. 40	10. 30	·1095					
11. 6	35. 15	10. 48	·1091					
11. 28	29. 30	11. 3	·1093					
11. 36	42. 45	11. 24	·1076					
11. 41	40. 0	11. 33	·1076					
11. 46	47. 50	11. 41	·1072					
12. 14	25. 15	11. 52	·1109					
12. 38	28. 40	12. 6	·1077					
13. 21	20. 5	12. 13	·1079					
13. 44	27. 35	12. 28	·1100					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 13		Mar. 13						
h m	° ′ ″	h m		h m		h m	°	°
14. 9	21. 23. 10	12. 45	·1086					
14. 28	24. 15	13. 2	·1086					
14. 40	22. 10	13. 13	·1082					
14. 52	21. 40	13. 39	·1088					
15. 13	15. 25	13. 55	·1077					
15. 16	15. 55	14. 17	·1088					
15. 39	10. 0		***					
15. 52	16. 55	14. 55	·1082					
16. 1	16. 10	15. 17	·1099					
16. 40	40. 0	15. 45	·1102					
17. 15	21. 0	16. 0	·1089					
17. 35	27. 5	16. 10	·1094					
	***	16. 15	·1092					
19. 3	30. 0	16. 25	·1094					
19. 12	35. 30	16. 32	·1083					
	***	16. 45	·1102					
19. 45	30. 0	16. 53	·1099					
20. 3	29. 10	17. 6	·1102					
20. 16	29. 30	17. 15	·1095					
20. 23	28. 5	17. 25	·1098					
20. 45	33. 45	17. 42	·1093					
	***	18. 7	·1099					
22. 19	32. 30	18. 26	·1092					
22. 45	34. 30	18. 45	·1093					
23. 29	34. 15	18. 50	·1090					
23. 40	36. 45	19. 15	·1102					
23. 59	35. 50	19. 32	·1104					
			***					
		20. 20	·1099					
		20. 30	·1094					
		20. 45	·1103					
		20. 59	·1093					
			***					
		21. 32	·1088					
			***					
		23. 59	·1098					
Mar. 14		Mar. 14		Mar. 14		Mar. 14		
0. 0	21. 35. 50	0. 0	·1098	0. 0	·02423	7. 46	48 ·0	48 ·5
0. 13	35. 15	0. 13	·1094	0. 14	·02426	21. 0	46 ·0	46 ·8
0. 34	41. 30	0. 30	·1104	0. 30	·02453			
0. 53	41. 30	0. 50	·1100	3. 0	·02492			
1. 6	40. 0	1. 2	·1091	3. 32	·02433			
1. 23	42. 55	1. 20	·1094	4. 7	·02448			
1. 38	42. 30	1. 30	·1088	4. 46	·02416			
	***	1. 50	·1085		***			
2. 41	46. 0	2. 5	·1091	5. 45	·02412			
3. 19	40. 30	2. 15	·1089	6. 10	·02346			
3. 28	43. 30	2. 24	·1096	6. 29	·02308			
3. 32	42. 0	2. 28	·1091	6. 40	·02328			
3. 45	42. 20	3. 3	·1094	6. 52	·02267			
4. 1	40. 0	3. 15	·1088	7. 52	·02190			
4. 9	41. 0	3. 29	·1102	9. 10	·02190			
4. 27	35. 30	3. 34	·1096	9. 40	·01970			
4. 40	39. 30	3. 45	·1102		***			
4. 51	36. 30	3. 53	·1096	10. 15	·02100			
5. 7	41. 20	4. 6	·1102	10. 55	·02047			
5. 15	37. 0	4. 11	·1108	11. 9	·02084			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 14		Mar. 14		Mar. 14		h m	°	°
h m	° ′ ″	h m		h m				
5. 23	21. 38. 15	4. 17	·1102	11. 26	·02038			
5. 38	34. 30	4. 25	·1095	11. 40	·02000			
5. 46	39. 30	4. 28	·1102	11. 45	·02015			
5. 58	27. 30	4. 40	·1104	11. 52	·01998			
6. 7	33. 10	4. 46	·1094	12. 15	·02040			
6. 12	33. 55	4. 53	·1105	12. 30	·02017			
6. 33	31. 10	5. 7	·1124	13. 0	·02008			
6. 44	17. 25	5. 15	·1115	13. 40	·02092			
6. 54	37. 0	5. 20	·1123	14. 12	·02048			
7. 15	14. 30	5. 29	·1108	15. 13	·02184			
7. 20	14. 55	5. 39	·1108	15. 50	·02207			
7. 30	14. 30	5. 44	·1116	16. 11	·02166			
7. 43	26. 0	5. 53	·1095	16. 45	·02150			
7. 58	20. 5	6. 0	·1118	17. 55	·02193			
8. 7	22. 20		***	22. 25	·02207			
8. 14	21. 30	6. 38	·1112	23. 59	·02093			
8. 28	27. 20	6. 44	·1143					
8. 44	24. 25	6. 59	·1080					
8. 56	27. 30	7. 30	·1122					
9. 15	14. 30	7. 50	·1086					
9. 36	43. 15	7. 58	·1092					
9. 45	28. 5	8. 7	·1088					
	***	8. 20	·1097					
10. 0	27. 50	8. 30	·1085					
10. 15	21. 35	8. 42	·1086					
10. 29	24. 45		***					
10. 44	29. 30	9. 0	·1076					
10. 58	10. 25	9. 13	·1138					
11. 7	29. 30	9. 42	·1061					
11. 15	17. 0	9. 59	·1092					
11. 30	14. 20	10. 6	·1086					
11. 39	22. 5	10. 16	·1098					
11. 43	17. 35	10. 25	·1106					
11. 57	24. 20	10. 40	·1101					
12. 36	20. 50	10. 55	·1080					
12. 48	24. 30	11. 5	·1141					
13. 13	21. 30	11. 16	·1102					
13. 36	35. 25	11. 25	·1112					
13. 58	29. 20	11. 30	·1102					
14. 17	26. 30	11. 40	·1120					
14. 39	30. 0	11. 52	·1090					
14. 48	29. 30	12. 10	·1106					
15. 10	33. 0	12. 25	·1099					
15. 17	32. 40	12. 30	·1103					
15. 33	34. 35	13. 0	·1071					
15. 43	34. 30	13. 40	·1125					
15. 53	32. 15	14. 14	·1089					
16. 13	36. 30	14. 30	·1094					
16. 43	32. 0	14. 40	·1086					
16. 54	32. 0	15. 9	·1098					
17. 14	30. 30	15. 22	·1096					
17. 22	30. 35	15. 45	·1102					
17. 30	29. 10	15. 46	·1099					
17. 45	33. 25		***					
17. 58	32. 30	16. 30	·1099					
18. 9	33. 30	16. 53	·1112					
18. 26	32. 30	17. 25	·1096					
18. 38	33. 0	17. 44	·1104					
	***							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 14		Mar. 14		h m		h m	°	°
h m	° ′ ″	h m						
19. 0	21. 30. 30	17. 54	·1096					
19. 15	39. 30	18. 10	·1109					
19. 43	34. 15	18. 15	.1105					
	***	18. 40	·1112					
19. 52	34. 0		***					
20. 19	30. 0	18. 55	.1107					
	***	19. 14	·1120					
20. 58	30. 30		***					
	***	19. 30	·1106					
21. 13	31. 50	19. 52	·1116					
21. 26	30. 0		***					
21. 51	31. 40	20. 25	·1102					
22. 15	31. 25	20. 45	·1102					
	***		***					
22. 59	38. 30	21. 25	·1083					
23. 15	37. 30	21. 55	·1074					
23. 45	37. 30	22. 25	·1090					
23. 59	38. 20		***					
		23. 35	·1076					
		23. 59	·1088					
Mar. 15		Mar. 15		Mar. 15		Mar. 15		
0. 0	21. 38. 25	0. 0	·1088	0. 0	·02093	1. 0	49 ·0	49 ·0
0. 14	43. 10	0. 13	·1099	1. 26	·01976	3. 0	51 ·2	51 ·7
	***		***	2. 30	·01937	9. 0	53 ·7	54 ·0
1. 28	34. 15	0. 45	·1088	2. 44	·01908	21. 0	50 ·3	51 ·2
2. 14	40. 0		***	3. 0	·02010			
2. 30	44. 30	1. 25	·1094	4. 12	·01964			
2. 44	33. 30	1. 47	·1108	4. 30	·01967			
3. 0	29. 10	2. 10	·1102	5. 43	·01900			
3. 13	33. 25	2. 25	·1092	6. 43	·01907			
3. 23	32. 10	2. 34	·1103		***			
3. 38	32. 50	2. 42	·1082	8. 42	·01824			
3. 46	31. 30	3. 0	·1106	9. 42	·01840			
	***	3. 7	·1128	10. 2	·01746			
4. 15	34. 55	3. 38	·1108	10. 39	·01770			
4. 41	33. 5	3. 55	·1094	11. 25	·01730			
5. 9	35. 0		***	12. 52	·01712			
5. 28	34. 10	5. 30	·1095	14. 22	·01733			
5. 42:	34. 30	6. 1	·1105	14. 51	·01770			
6. 16	25. 45	6. 15	·1094	15. 40	·01800			
6. 28	23. 15	6. 25	·1098	16. 29	·01870			
6. 53	27. 0	6. 47	·1118	22. 1	·02173			
7. 9	24. 0	6. 54	·1110	23. 59	·02142			
7. 15	24. 50	7. 5	·1113					
7. 22	20. 20	7. 15	·1122					
7. 37	26. 55	7. 22	·1113					
8. 9	22. 30	7. 31	·1132					
8. 27	26. 45	7. 46	·1112					
8. 40	21. 0		***					
8. 46	24. 0	8. 10	·1126					
9. 24	21. 50	8. 35	·1102					
9. 41	36. 50	8. 46	·1110					
10. 4	20. 25		***					
	***	9. 28	·1082					
10. 51	22. 0	9. 36	·1106					
11. 27	33. 30	9. 44	·1100					
11. 37	33. 40	9. 57	·1088					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 15		Mar. 15						
h m	° ′ ″	h m		h m		h m	°	°
12. 2	21. 26. 30	10. 14	·1096					
12. 22	28. 5		***					
12. 37	26. 20	10. 45	·1098					
12. 56	29. 30	10. 55	·1108					
13. 9	28. 40	11. 13	·1084					
13. 28	36. 20	11. 25	·1086					
13. 39	38. 30	11. 43	·1098					
14. 10	30. 0	11. 48	·1096					
14. 32:	33. 0	12. 16	·1104					
15. 15	27. 40	12. 39	·1092					
15. 38	27. 30	12. 47	·1104					
16. 0	29. 10	12. 58	·1102					
16. 22	28. 35	13. 11	·1087					
16. 30	29. 15	13. 30	·1087					
16. 54	26. 50	13. 50	·1110					
17. 38	30. 50	14. 2	·1098					
17. 53	33. 30		***					
18. 9	33. 40	14. 50	·1104					
18. 18	32. 30		***					
18. 32	33. 30	15. 58	·1095					
	***	16. 30	·1107					
19. 29	29. 35	16. 41	·1105					
19. 33	30. 30	16. 56	·1108					
	***	17. 40	·1094					
20. 21	28. 40	18. 2	·1103					
	***		***					
21. 14	29. 15	19. 0	·1104					
21. 32	32. 30		***					
21. 45	31. 35	19. 44	·1098					
22. 23	32. 40		***					
23. 0	35. 30	20. 11	·1088					
23. 12	37. 25		***					
23. 35	37. 20	21. 40	·1079					
23. 52	39. 0	21. 55	·1071					
23. 59	40. 0	22. 45	·1079					
		23. 45	·1090					
		23. 59	·1086					
Mar. 16		Mar. 16		Mar. 16		Mar. 16		
0. 0	21. 40. 0	0. 0	·1086	0. 0	·02142	1. 0	54 ·6	54 ·3
	***		***	1. 43	·01933	3. 0	55 ·0	56 ·6
1. 11	39. 30	0. 40	·1074	3. 0	·02027	9. 0	60 ·0	59 ·0
1. 30	41. 55	1. 5	·1083	4. 24	·02027	21. 0	53 ·9	54 ·3
1. 54	39. 30	1. 30	·1096	9. 3	·02124			
2. 6	40. 15	2. 14	·1082	9. 34	·02076			
2. 16	38. 30	2. 24	·1090	15. 6	·02283			
2. 40	39. 35	2. 40	·1092	19. 14	·02613			
3. 30	35. 0	3. 0	·1085	22. 59	·02550			
3. 44	36. 0		***	23. 59	·02580			
4. 28	33. 25	4. 40	·1094					
4. 32	33. 50		***					
4. 55	32. 30	5. 19	·1106					
5. 11	33. 35	5. 40	·1093					
5. 28	32. 30	6. 3	·1082					
5. 32	33. 5	6. 25	·1090					
	***	6. 40	·1085					
6. 51	28. 0	6. 59	·1092					
7. 15	29. 20	7. 30	·1092					
			***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
7. 30	21. 28. 0	8. 40	·1084					
7. 58	31. 0	8. 50	·1088					
8. 30	28. 30	9. 0	·1110					
8. 39	30. 0	9. 10	·1103					
8. 45	29. 30	9. 25	·1097					
	***	9. 45	·1103					
9. 15	35. 0	10. 12	·1100					
9. 45	30. 5	10. 26	·1090					
9. 52	30. 15	10. 42	·1092					
10. 8	28. 0	11. 0	·1098					
	***		***					
10. 45	26. 0	12. 0	·1096					
11. 14	31. 50	12. 13	·1099					
11. 40	33. 20	12. 20	·1096					
11. 52	33. 10	12. 37	·1098					
12. 7	34. 35	12. 58	·1094					
12. 40	32. 30	13. 57	·1106					
13. 13	37. 30	14. 15	·1102					
13. 45	35. 30	15. 0:	·1108					
14. 15	37. 10		***					
15. 10	30. 0	16. 1	·1100					
15. 28	30. 20		***					
15. 40	31. 40	17. 14	·1099					
15. 52	31. 30		***					
	***	18. 0	·1108					
16. 40	32. 30		***					
	***	18. 25	·1099					
17. 39	30. 40		***					
	***	19. 14	·1099					
17. 58	32. 10		***					
18. 40	32. 15	20. 55	·1074					
19. 25	33. 20	21. 30	·1075					
	***		***					
20. 10	29. 25	22. 0	·1084					
	***		***					
22. 15	32. 10	23. 59	·1072					
22. 28	34. 5							
	***							
23. 59	40. 0							
Mar. 17		Mar. 17		Mar. 17		Mar. 17		
0. 0	21. 40. 0	0. 0	·1073	0. 0	·02580	1. 0	55 ·0	54 ·6
0. 32	41. 30		***	2. 15	·02543	3. 0	57 ·0	56 ·4
1. 8	38. 30	1. 0	·1072	4. 29	·02304	9. 0	57 ·5	57 ·5
1. 42	41. 0	1. 40	·1088	6. 11	·02284	21. 0	52 ·2	52 ·7
2. 12	39. 50	2. 14	·1079	6. 22	·02240			
2. 20	41. 20	2. 28	·1086	7. 40	·02170			
3. 14	35. 30	2. 44	·1080	10. 56	·02206			
3. 29	35. 20		***	11. 42	·02243			
3. 34	36. 0	3. 58	·1098	12. 17	·02197			
3. 44	36. 5	4. 8	·1096	15. 22	·02398			
3. 57	36. 50	4. 30	·1096	15. 44	·02394			
4. 52	33. 45	4. 56	·1108	17. 28	·02552			
5. 17	25. 0	5. 5	·1103		·02508			
5. 23	25. 30	5. 24	·1116	21. 2	·02507			
5. 36	22. 0	5. 38	·1114		·02170			
5. 45	24. 0	5. 40	·1119	23. 4	·02163			
5. 52	23. 30	5. 54	·1112	23. 59	·02098			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
5. 59	21. 24. 30	6. 0	·1113					
6. 10	27. 5	6. 10	·1120					
6. 15	26. 10	6. 16	·1114					
6. 23	29. 10	6. 23	·1118					
6. 35	23. 55	6. 33	·1089					
6. 46	24. 50	6. 44	·1092					
7. 0	22. 10	6. 55	·1086					
7. 3	17. 15	7. 0	·1088					
7. 10	32. 0	7. 5	·1129					
7. 15	29. 15	7. 14	·1100					
7. 26	35. 40	7. 24	·1117					
7. 45	21. 20	7. 32	·1084					
7. 52	23. 0	7. 45	·1109					
7. 57	22. 30	7. 50	·1107					
8. 16	31. 30	8. 0	·1117					
8. 55	33. 10	8. 30	·1096					
10. 13	32. 30	9. 3	·1096					
11. 11	29. 0	9. 15	·1101					
11. 29	29. 30		***					
11. 43	40. 0	10. 25	·1104					
12. 15	34. 20	10. 40	·1100					
12. 38	37. 20	10. 51	·1103					
	***	11. 23	·1102					
13. 28	34. 35	11. 35	·1116					
14. 26	29. 0	11. 52	·1117					
15. 15	39. 35	12. 14	·1102					
16. 12	30. 30	12. 30	·1104					
16. 45	29. 20	12. 45	·1102					
17. 45	31. 15		***					
18. 17	30. 50	14. 15	·1106					
18. 42	29. 5	14. 30	·1101					
19. 0	29. 0	14. 55	·1084					
19. 11	30. 30	15. 30	·1113					
19. 15	27. 30	16. 0:	·1114					
	***		***					
20. 31	28. 50	17. 25	·1107					
20. 43	26. 30		***					
20. 46	27. 30	18. 20	·1112					
	***		***					
21. 37	29. 30	19. 6	·1110					
22. 52	34. 10	19. 14	·1101					
23. 6	36. 30	19. 30	·1107					
23. 59	38. 5		***					
		20. 25	·1102					
		20. 40	·1093					
		20. 45	·1098					
			***					
		21. 40	·1093					
			***					
		22. 20	·1078					
			***					
		23. 40	·1080					
Mar.18		Mar.18		Mar.18		Mar.18		
0. 0	21. 38. 5	0. 15	·1074	0. 0	·02098	1. 0	55 ·0	56 ·2
0. 26	38. 50		***	1. 52:	·01930	3. 0	57 ·4	57 ·4
0. 54	42. 5	1. 35	·1092	4. 15	·01980	9. 0	58 ·0	58 ·5
	***							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar.18		Mar.18		Mar.18		Mar.18		
h m	° ′ ″	h m		h m		h m	°	°
2. 0	21. 42. 0	1. 55	·1085	6. 26	·01945	21. 0	50 ·7	52 ·0
2. 15	41. 0		***		·02060			
2. 30	41. 0	2. 28	·1095	11. 44	·02283			
2. 57	38. 30		***	15. 25	·02573			
3. 43	36. 20	3. 10	·1096	16. 21	·02520			
3. 52	36. 20		***	22. 38	·02493			
5. 14	33. 0	3. 40	·1088	23. 59	·02397			
6. 0	31. 40	4. 5	·1094					
	***		***					
7. 6	24. 15	5. 35	·1098					
7. 24	26. 30	6. 7	·1098					
8. 7	26. 0		***					
8. 38	29. 30	6. 52	·1092					
9. 13	30. 30	7. 16	·1100					
9. 28	30. 0	7. 28	·1100					
10. 28	31. 30	7. 45	·1103					
11. 11	32. 0	7. 58	·1101					
11. 52	33. 35	8. 16	·1103					
12. 12	32. 0	8. 30	·1100					
12. 42	31. 50	9. 5	·1106					
13. 7	32. 30	9. 30	·1101					
13. 45	31. 30		***					
13. 54	31. 30	10. 45	·1105					
14. 45	34. 30	11. 10	·1109					
14. 58	34. 20	11. 27	·1108					
15. 15	34. 45	11. 45	·1119					
15. 40	33. 20	12. 5	·1111					
15. 52	33. 25	12. 22	·1113					
16. 27	30. 10	12. 45	·1110					
16. 54	30. 0		***					
17. 31	33. 30	13. 55	·1116					
18. 18	31. 15	14. 13	·1110					
19. 31	30. 50	14. 22	·1113					
19. 56	29. 10	14. 44	·1112					
20. 38	28. 0	15. 25	·1122					
22. 15	32. 40	16. 6	·1124					
22. 33	34. 30	16. 25	·1124					
23. 0	34. 30	17. 20	·1116					
23. 44	38. 20	18. 30	·1124					
23. 59	38. 30	20. 30:	·1118					
		21. 35	·1102					
		22. 46	·1103					
			***					
		23. 59	·1097					
Mar.19		Mar.19		Mar.19		Mar.19		
0. 0	21. 38. 30	0. 0	·1097	0. 0	·02397	1. 0	53 ·0	55 ·0
0. 26	40. 40		***	1. 13	·02250	3. 0	55 ·2	57 ·2
0. 33	39. 0	0. 30	·1096	2. 56	·01933	9. 0	57 ·5	58 ·5
1. 0	40. 50		***	5. 0	·01964	21. 0	51 ·8	53 ·6
1. 29	37. 40	4. 45	·1098	7. 29	·01945			
1. 54	40. 45	5. 0	·1096	11. 15	·02106			
2. 9	38. 40	5. 15	·1102	16. 52	·02613			
2. 57	36. 30	6. 0	·1100	21. 12	·02533			
3. 20	36. 45	6. 14	·1103		·02487			
5. 0	33. 20	6. 44	·1098	23. 0	·02509			
5. 9	33. 40	7. 29	·1107	23. 59	·02413			
5. 30	32. 30	8. 14	·1100					
			***					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
6. 0	21. 32. 0	8. 24	·1104					
			***					
6. 15	30. 0							
6. 28	30. 0	8. 45	·1100					
6. 59	26. 30	9. 7	·1104					
8. 4	29. 30	9. 55	·1100					
8. 29	31. 30	10. 15	·1094					
9. 42	32. 10	10. 30	·1116					
10. 0	29. 55	10. 45	·1108					
			***					
10. 22	25. 0							
10. 43	28. 55	11. 10	·1109					
			***					
10. 52	28. 30							
11. 15	29. 50	12. 0	·1100					
11. 50	28. 30	12. 16	·1102					
12. 15	30. 45	12. 45	·1101					
12. 49	30. 40	13. 30:	·1107					
			***					
13. 10	31. 50							
13. 52	31. 0	19. 55:	·1117					
			***					
15. 50	31. 35							
16. 24	31. 25	21. 40	·1100					
17. 5	32. 15	21. 57	·1100					
17. 39	31. 30	22. 15	·1094					
			***					
18. 11	31. 45							
20. 20	27. 0	23. 59	·1095					
21. 15	31. 0							
21. 43	31. 0							
22. 21	34. 10							
23. 31	39. 30							
23. 59	40. 30							
Mar. 20		Mar. 20		Mar. 20		Mar. 20		
0. 0	21. 40. 30	0. 0	·1095	0. 0	·02413	1. 0	56·5	57·5
0. 30	40. 30		(†)	3. 0	·02028	3. 0.	58·0	59·7
0. 42	41. 40	1. 15	·1102		·02060	9. 4	58·0	59·0
3. 49	33. 40	1. 30	·1094	6. 49	·01963	21. 0	47·0	49·2
			***					
4. 18	33. 30			7. 7	·02007			
4. 53	31. 45	3. 0	·1094	10. 52	·02210			
6. 10	31. 30	3. 30	·1100	12. 49	·02363			
7. 28	33. 0	4. 10	·1096	14. 30	·02597			
8. 42	32. 20	4. 25	·1098	23. 59	·02406			
10. 26	32. 30	5. 8	·1095					
10. 45	30. 55	6. 0	·1100					
11. 22	25. 40	6. 20	·1096					
11. 59	30. 45	6. 45	·1099					
	***	9. 45	·1105					
12. 52:	27. 0	9. 57	·1110					
	***	10. 24	·1106					
14. 59	33. 15	10. 35	·1108					
	***		***					
17. 54	33. 0	11. 30	·1107					
18. 51	30. 15	12. 0	·1102					
19. 11	29. 35	12. 38	·1114					
19. 39	29. 40	12. 45	·1111					
			***					
19. 54	29. 0							
22. 0	31. 30	13. 45	·1111					
			***					
22. 12	32. 55							
22. 30	33. 20	15. 40	·1120					
			***					
23. 12	37. 45							
23. 59	38. 40	17. 35	·1120					
			***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		Mar. 20						
h m	° ′ ″	h m		h m		h m	°	°
		20. 0	·1123					
		23. 45	·1108					
		23. 59	·1105					
Mar. 21		Mar. 21		Mar. 21		Mar. 21		
0. 0	21. 38. 40	0. 0	·1105	0. 0	·02406	6. 45	55·0	56·8
0. 50	38. 30	0. 25	·1106	1. 30	·02338	21. 0	45·0	47·3
1. 15	39. 55	1. 9	·1118	4. 12	·01906			
2. 43	37. 45	2. 40	·1124	4. 44	·01928			
3. 49	33. 50	3. 22	·1124	7. 57	·01895			
			***					
4. 30	32. 40			11. 15:	·02024			
4. 51	31. 30	4. 0	·1118	15. 54	·02536			
5. 33	31. 25	4. 40	·1120	20. 13	·02440			
7. 47	32. 20	5. 0	·1117	23. 59	·02237			
			***					
8. 50	33. 40							
9. 22	31. 30	5. 55	·1119					
	***	6. 35:	·1123					
10. 30	31. 35	7. 56	·1118					
	***	8. 16	·1121					
			***					
10. 50	29. 15							
	***	9. 35	·1121					
11. 30	30. 10	10. 0	·1115					
	***	10. 55:	·1120					
12. 43	34. 15	11. 20	·1116					
	***	11. 55	·1118					
14. 10	33. 50	12. 50	·1124					
14. 29	31. 30	14. 10	·1129					
	***		***					
15. 33	33. 40	15. 14	·1129					
	***	17. 0:	·1136					
			***					
17. 50	31. 15							
18. 26	33. 20	18. 15	·1130					
18. 51	33. 20	20. 10:	·1132					
			***					
19. 11	31. 25							
19. 37	31. 30	23. 59	·1113					
20. 18	28. 40							
21. 8	32. 0							
21. 15	31. 20							
22. 45	36. 30							
23. 8	36. 15							
23. 45	39. 30							
23. 59	40. 0							
Mar. 22		Mar. 22		Mar. 22		Mar. 22		
0. 0	21. 40. 0	0. 0	·1113	0. 0	·02237	1. 0	50·8	51·7
0. 45	41. 0	1. 50	·1111	0. 12	·02227	3. 0	55·3	56·2
1. 30	41. 0	2. 15	·1117	0. 18	·02153	9. 0	58·0	58·2
2. 0	40. 0	2. 55	·1117	1. 55	·01865	21. 0	47·0	49·3
2. 15	40. 25	2. 31	·1111	2. 42	·01930			
			***		·02123			
2. 47	39. 30							
3. 22	37. 20	4. 8	·1113	5. 54	·02080			
4. 12	35. 0	4. 40	·1122	11. 5	·02350			
4. 30	34. 50	5. 30	·1119	13. 37	·02628			
6. 7	31. 0	5. 45	·1112	17. 57	·02530			
6. 20	26. 50	6. 7	·1108	20. 15	·02530			
6. 45	29. 30	6. 15	·1118	23. 59	·02372			
7. 6	27. 0	6. 30	·1118					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar.22		Mar.22						
h m	° ′ ″	h m		h m		h m	°	°
7. 12	21. 28. 20	6. 47	·1104					
7. 18	28. 10		***					
7. 29	29. 50	8. 50	·1104					
	***	9. 7	·1114					
8. 29	30. 50	9. 30	·1114					
9. 0	27. 30	9. 55	·1110					
9. 14	27. 30		***					
9. 21	27. 0	11. 0	·1122					
9. 52	29. 15		***					
11. 53	33. 0	12. 30	·1129					
12. 14	31. 0	13. 55	·1124					
12. 44	30. 5	14. 40	·1127					
15. 0	31. 20		***					
15. 52:	33. 30	15. 45	·1124					
17. 12	32. 0	16. 2	·1127					
17. 35	32. 55	16. 25	·1126					
18. 5	30. 45	17. 7	·1134					
18. 51	30. 30		***					
19. 12	28. 55	18. 10	·1138					
19. 15	29. 15		***					
19. 23	28. 0	20. 10	·1132					
20. 15	28. 55	21. 30	·1124					
20. 29	27. 50	21. 45	·1116					
21. 17	29. 10		***					
23. 22	38. 10	23. 0	·1118					
23. 42	38. 10		***					
23. 59	39. 15	23. 59	·1125					
Mar.23		Mar.23		Mar.23		Mar.23		
0. 0	21. 39. 15	0. 4	·1125	0. 0	·02372	1. 0	51 ·7	54 ·0
0. 24	41. 20	0. 27	·1130	0. 15	·02349	3. 0	55 ·0	57 ·0
1. 52	40. 30		***		(†)	9. 0	60 ·7	61 ·0
3. 30	37. 10	2. 0	·1134	1. 0	·02106*	21. 0	51 ·4	53 ·6
3. 50	36. 55		***	1. 28	·02034			
4. 25	34. 30	3. 27	·1124	1. 58	·02037			
6. 43	33. 0	4. 10	·1124	2. 55	{·02120			
7. 39	28. 0	4. 30	·1119		{·02250			
8. 41	32. 5	5. 15	·1124	3. 28	·02179			
9. 10	31. 5	6. 30	·1126	4. 52	·02166			
10. 10	31. 0		***	7. 11	·02098			
10. 27	27. 20	7. 20	·1125	9. 26	·02156			
11. 11	31. 30	7. 45	·1129	9. 52	·02193			
	***	8. 2	·1124	10. 30	·02207			
11. 30	30. 10	8. 30	·1126	13. 55	·02457			
	***	8. 45	·1130	17. 51	·02344			
12. 25	32. 25	9. 0	·1127	21. 0	·02310			
	***	9. 30	·1131	22. 15	·02250			
16. 0	30. 0	9. 45	·1124	23. 45	·02130			
	***		***					
18. 9	31. 30	10. 10	·1126					
	***	10. 25	·1135					
18. 44	30. 40	10. 30	·1130					
	***	10. 43	·1130					
18. 58	31. 30	10. 50	·1138					
	***	10. 55	·1136					
20. 45	31. 0		***					
20. 52	34. 45	11. 20	·1141					
20. 58	33. 40		***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar.23		Mar.23						
h m	° ′ ″	h m		h m		h m	°	°
21. 22	21. 34. 30	12. 0	·1124					
21. 40	33. 20	12. 20	·1131					
	***	12. 30	·1127					
22. 30	33. 40	12. 46	·1128					
23. 55	38. 0	12. 55	·1132					
23. 59	37. 50		***					
		15. 0	·1132					
			***					
		16. 45	·1134					
		17. 25	·1138					
		17. 55	·1136					
		18. 45:	·1138					
			***					
		20. 30	·1130					
		20. 55	·1116					
		21. 25	·1120					
			***					
		23. 59	·1108					
Mar.24		Mar.24		Mar.24		Mar.24		
0. 0	21. 37. 50	0. 0	·1108	0. 11	·02137	1. 0	57 ·0	58 ·5
	***	0. 15	·1108	0. 43	·02076	3. 0	60 ·8	61 ·8
0. 44	40. 0	0. 23	·1112	0. 56	·02094	9. 0	63 ·1	64 ·6
1. 42	37. 30	0. 40	·1106	1. 30	·01982	21. 0	52 ·4	53 ·6
1. 52	37. 50	0. 47	·1112	2. 52	·02090			
4. 12	33. 30		***		***			
5. 36	31. 40	1. 20	·1098	4. 34	·02180			
6. 33	31. 40	1. 53	·1106	5. 52:	·02238			
7. 44	30. 45		***	7. 45	·02180			
10. 6	31. 30	2. 30	·1107	10. 54	·02230			
10. 52	29. 25		***	12. 7	·02294			
11. 4	28. 50	4. 15	·1100	13. 7	·02390			
11. 29	30. 45	6. 15	·1120	17. 28	·02290			
11. 53	30. 30	8. 0	·1119	18. 41	·02273			
12. 37	28. 5	11. 8	·1124	23. 59	·02190			
12. 44	28. 30	11. 45	·1129					
13. 7	27. 15	11. 55	·1136					
13. 39	28. 45		***					
14. 15	27. 30	12. 55	·1138					
14. 51	29. 0	13. 25	·1134					
	***	14. 5	·1140					
15. 52	29. 25	14. 15	·1136					
16. 9	28. 30		***					
	***	16. 40	·1151					
17. 40	30. 0		***					
	***	19. 10	·1152					
18. 39	27. 30	19. 40	·1148					
	***		***					
19. 10	29. 25	23. 59	·1136					
	***							
19. 30	28. 30							
	***							
20. 53	28. 35							
22. 58	31. 30							
23. 33	33. 45							
23. 40	33. 0							
23. 59	33. 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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V.F. Magnet.
Mar.25	° ′ ″	Mar.25		Mar.25		Mar.25	°	°
h m		h m		h m		h m		
0. 0	21. 33. 50	0. 0	·1136	0. 0	·02190	1. 0	55·0	55·0
0. 34	35. 55	0. 48	·1144	1. 54	·02196	3. 0	56·0	56·7
1. 44	36. 40		***	6. 52:	·01924	9. 0	54·0	55·4
1. 52	36. 10	2. 0	·1147	12. 16	·02238	21. 0	46·0	47·6
2. 0	37. 0	2. 35	·1141	14. 7	{·02190 ·02130			
2. 45	34. 10	3. 15:	·1148					
3. 45	34. 30		***	15. 22	·02157			
4. 23	34. 0	4. 15	·1148	15. 56	·02130			
4. 51	34. 30	4. 43	·1156	16. 27	·02150			
5. 39:	32. 55	5. 5	·1146	19. 56	·02158			
6. 22	33. 20	5. 35	·1144	22. 45	·02078			
6. 30	32. 20	5. 55	·1147	23. 59	·02133			
7. 10	35. 0	6. 5	·1144					
7. 57	33. 15	6. 26	·1156					
8. 14	33. 30	6. 50	·1156					
8. 39	33. 10	7. 13	·1148					
9. 0	33. 30	7. 35	·1148					
9. 57	32. 0	8. 0	·1156					
11. 1	32. 55		***					
11. 30	32. 0	9. 0	·1162					
13. 13	33. 20	9. 29	·1159					
13. 39	33. 0	9. 55	·1164					
13. 51	33. 30		***					
14. 12	33. 30	13. 54	·1169					
14. 37	35. 5		***					
14. 46	35. 5	14. 35	·1164					
15. 10	39. 0	15. 15:	·1178					
15. 44	30. 0	16. 10	·1168					
16. 16	31. 10	18. 45:	·1174					
16. 46	30. 0	21. 55	·1151					
17. 12	30. 50		***					
18. 39	30. 30	23. 14	·1152					
19. 30	28. 0	23. 40	·1162					
21. 26	30. 30	23. 55	·1157					
23. 0	36. 0							
23. 26	38. 50							
23. 44	38. 45							
23. 54	40. 0							
Mar.26		Mar.26		Mar.26		Mar.26		
0. 5	21. 40. 20	0. 0	·1159	0. 0	·02133	1. 0	49·2	50·4
1. 25	40. 20		***	1. 32	·02067	3. 0	53·0	53·6
2. 39	37. 5	1. 51	·1160	2. 40	·01974	9. 0	56·0	56·7
3. 0	36. 50	1. 55	·1154	3. 40	·01824	21. 0	46·5	48·3
3. 44	34. 30	2. 30	·1154	4. 43	·01887			
4. 48	33. 0	2. 45	·1161	8. 39	·01810			
5. 4	33. 15		***	12. 22:	·01864			
5. 30	31. 45	3. 45	·1154	16. 7	·02246			
7. 7	30. 30	4. 40	·1156	19. 50	·02180			
7. 40	30. 35	5. 18	·1161	23. 59	·02130			
8. 15	31. 25	5. 40	·1156					
10. 45	32. 0	6. 12	·1154					
11. 6	33. 0	6. 40	·1162					
13. 6	31. 10	7. 15	·1153					
13. 26	31. 50	8. 2	·1160					
14. 28	28. 45		***					
15. 35	31. 10	9. 30	·1160					
17. 21	31. 45		***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V.F. Magnet.
Mar.26	° ′ ″	Mar.26		h m		h m	°	°
h m		h m						
18. 29	21. 31. 0	11. 0	·1171					
19. 58	28. 10		***					
20. 11	28. 40	13. 6	·1169					
20. 26	28. 30	13. 40	·1174					
21. 0	29. 30		***					
21. 45	34. 35	15. 55	·1169					
22. 59	40. 15	18. 5	·1174					
23. 33	39. 0	18. 55:	·1172					
23. 59	39. 30		***					
		21. 45	·1152					
			***					
		22. 50	·1157					
		23. 59	·1148					
Mar.27		Mar.27		Mar.27		Mar.27		
0. 0	21. 39. 30	0. 0	·1148	0. 0	·02130	1. 0	49·5	50·5
0. 15	41. 30	0. 30	·1164	1. 22	·02137	3. 0	53·2	54·0
0. 39	40. 0	0. 45	·1160	2. 51	·01986	9. 0	55·5	55·5
1. 39	39. 25	1. 25	·1161	3. 15	·01984	22. 30	51·0	52·0
1. 54	40. 0	1. 43	·1158	3. 58	·01830			
2. 56	37. 0	2. 0	·1158	8. 19	·01760			
3. 45	35. 55		***	14. 36:	·01837			
3. 53	34. 20	2. 47	·1148	20. 11	·02256			
4. 7	35. 10		***	21. 30	·02216			
4. 21	33. 50	4. 5	·1161	23. 59	·02250			
5. 0	33. 45	4. 40	·1155					
5. 45	32. 50		***					
6. 57	32. 0	5. 12	·1161					
7. 16	32. 40		***					
8. 0	32. 0	6. 5	·1152					
8. 23	32. 10	6. 45	·1158					
10. 19	31. 50	7. 0	·1154					
10. 29	32. 30		***					
10. 38	31. 50	9. 35	·1152					
10. 45	31. 45	10. 20	·1156					
11. 29	30. 40	10. 23	·1169					
11. 41	31. 40	10. 29	·1161					
12. 51	30. 50		***					
13. 26	31. 10	11. 30	·1158					
14. 12	30. 50	12. 10	·1161					
14. 25	30. 0	12. 35	·1155					
14. 51	30. 15		***					
15. 0	31. 0	13. 9	·1161					
15. 13	29. 30	13. 20	·1167					
15. 22	30. 50	13. 25	·1162					
16. 0	30. 20		***					
16. 45	31. 0	14. 5	·1170					
17. 44	30. 5		***					
18. 10	26. 40	14. 38	·1166					
18. 45	27. 0	14. 45	·1176					
19. 40	38. 20	14. 55	·1161					
20. 25	40. 0	15. 20	·1166					
20. 45	38. 15	16. 15	·1161					
21. 6	39. 35		***					
21. 43	37. 30	17. 50	·1163					
	(†)	18. 25	·1146					
22. 40	41. 10	18. 45	·1123					
23. 24	46. 0	19. 10	·1124					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar.27		Mar.27						
h m	° ′ ″	h m		h m		h m	°	°
23. 59	21. 44. 40	19. 30	·1135					
		19. 50	·1135					
		20. 0	·1128					
		20. 10	·1128					
		20. 30	·1133					
			***					
		23. 20	·1128					
			***					
		23. 59	·1134					
Mar.28		Mar.28		Mar.28		Mar.28		
0. 0	21. 44. 40	0. 0	·1134	0. 0	·02250	9. 0	56 ·0	56 ·0
0. 33	43. 45	0. 28	·1139	1. 32:	·02210	21. 0	49 ·4	50 ·3
0. 42	42. 10	0. 35	·1136	4. 50	·01840			
0. 51	43. 40	0. 45	·1148	6. 29	{·01836			
1. 15	41. 15	1. 10	·1134		{·01917			
1. 40	41. 0		***	9. 54	·01910			
2. 0	41. 15	1. 45	·1140	14. 54	·02275			
2. 12	42. 0	2. 0	·1139	17. 6	·02238			
2. 28	40. 55	2. 8	·1146	17. 43	·02190			
3. 27	38. 15	2. 15	·1138	18. 4	·02217			
3. 40	38. 15		***	18. 37	·02080			
4. 22	35. 10	3. 25	·1139	19. 7	·02118			
5. 23	33. 45	3. 40	·1148	19. 30	·02176			
6. 10	32. 40	4. 0	·1144	20. 12	·02086			
7. 10	32. 45	4. 10	·1148	20. 43	·02160			
8. 54	33. 30	4. 20	·1136	21. 14	·02150			
10. 0	32. 40	4. 35	·1141		***			
12. 44	31. 15		***	23. 59	·02282			
14. 11	31. 45	6. 5	·1141					
14. 36	31. 10	6. 17	·1146					
15. 54	32. 10	6. 35	·1142					
16. 14	32. 0	7. 27	·1143					
16. 40	32. 45	7. 37	·1149					
16. 54	32. 10	7. 50	·1145					
17. 30	39. 20	8. 7	·1146					
17. 40	38. 55	8. 15	·1141					
17. 54	43. 10		***					
18. 6	41. 0	8. 44	·1150					
18. 15	53. 50	9. 30	·1145					
18. 35	54. 0		***					
19. 11	37. 35	10. 30	·1154					
19. 23	40. 55		***					
19. 31	40. 40	12. 55	·1154					
19. 40	33. 40		***					
20. 0	51. 0	14. 30	·1156					
20. 12	50. 20		***					
20. 45	34. 45	15. 55	·1166					
21. 3	35. 5		***					
21. 15	46. 5	16. 43	·1164					
21. 32	42. 0		***					
21. 40	45. 50	17. 14	·1172					
21. 49	43. 0	17. 40	·1150					
	(†)	18. 0	·1112					
		18. 8	·1116					
		18. 14	·1112					
		18. 30	·1123					
		19. 0	·1069					
			***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Mar.28						
h m	° ′ ″	h m		h m		h m	°	°
		19. 14	·1072					
		19. 27	·1061					
		19. 55	·1126					
		20. 0	·1124					
		20. 15	·1132					
		20. 44	·1085					
		21. 8	·1112					
		21. 25	·1098					
		21. 35	·1108					
		21. 55	·1094					
		22. 2	·1102					
		22. 10	·1091					
		22. 16	·1102					
			***					
		23. 25	·1078					
			***					
		23. 59	·1087					
Mar.29		Mar.29		Mar.29		Mar.29		
	(†)	0. 0	·1087	0. 0	·02282	1. 0	54 ·6	54 ·8
1. 0	21. 42. 5	0. 15	·1097	1. 50	·02150	3. 0	58 ·0	58 ·0
1. 39	39. 30	0. 35	·1092	2. 30	·01990	9. 0	58 ·8	60 ·2
1. 54	41. 0	1. 0	·1094		***	21. 0	48 ·7	51 ·0
2. 16	38. 20	1. 15	·1100	3. 14	·02038			
2. 29	39. 55	1. 45	·1094	3. 27	·02086			
2. 40	38. 0	2. 5	·1114	4. 6	·02065			
2. 47	40. 5	2. 10	·1102	4. 26	·02130			
3. 8	40. 40	2. 25	·1102	4. 52	·02090			
3. 15	38. 30	2. 30	·1106	5. 55	·02184			
3. 27	40. 40	2. 45	·1086	7. 11	·02106			
3. 44	35. 30	2. 55	·1100		***			
4. 9	33. 30	3. 7	·1088	9. 29	·02070			
4. 26	36. 30	3. 10	·1092	12. 11	·02368			
	***	3. 20	·1083	13. 0	·02306			
5. 0	33. 30	3. 32	·1104	14. 54	·02300			
5. 23	34. 0	3. 45	·1100	16. 25	·02257			
5. 51	27. 0	4. 29	·1128	16. 45	·02190			
6. 10	26. 20	4. 46	·1101	17. 44	·02240			
6. 22	28. 5	5. 5	·1112	20. 4	·02240			
6. 52	29. 50		***	22. 13	·02197			
7. 22	25. 10	5. 30	·1120	23. 59	·02035			
7. 35	26. 0	5. 46	·1105					
7. 42	31. 50	6. 8	·1097					
8. 22	22. 55		***					
8. 34	11. 15	6. 55	·1119					
8. 52	23. 45	7. 7	·1111					
9. 10	21. 0	7. 20	·1111					
9. 21	28. 25	7. 40	·1128					
	***	8. 0	·1108					
9. 52	22. 50	8. 15	·1122					
10. 22	31. 40	8. 25	·1116					
10. 40	29. 10	8. 45	·1148					
10. 54	31. 15	8. 47	·1138					
11. 9	28. 15	9. 10	·1152					
11. 30	35. 50	9. 21	·1132					
11. 39	33. 40	9. 36	·1132					
12. 4	36. 35	9. 50	·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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V.F. Magnet.
Mar. 29		Mar. 29						
h m	° ′ ″	h m		h m		h m	°	°
13. 20	21. 36. 50	10. 35	·1142					
	***		***					
14. 20	31. 0	11. 14	·1137					
	***	11. 45	·1144					
15. 38	31. 0		***					
16. 8	46. 0	12. 30	·1140					
16. 56	32. 30	13. 0	·1149					
	***	13. 20	·1143					
18. 42	28. 30		***					
18. 51	31. 40	14. 10	·1155					
18. 58	29. 30	14. 30	·1149					
19. 4	30. 15	14. 50	·1153					
19. 13	28. 45		***					
19. 32	32. 0	15. 40	·1154					
19. 40	31. 55	16. 0	·1131					
19. 50	34. 30		***					
20. 11	31. 30	17. 45	·1161					
20. 23	34. 30		***					
20. 40	32. 15	18. 38	·1160					
20. 50	33. 5	18. 46	·1164					
20. 57	32. 0	19. 40	·1146					
21. 16	35. 0	20. 10	·1146					
21. 45	33. 45	20. 30	·1135					
22. 30	36. 55	21. 6	·1142					
22. 37	36. 0	21. 42	·1133					
22. 45	37. 30	21. 55	·1138					
23. 26	41. 0		***					
23. 50	41. 20	22. 50	·1132					
23. 59	43. 0		***					
		23. 55	·1138					
Mar. 30		Mar. 30		Mar. 30		Mar. 30		
0. 0	21. 43. 0	0. 0	·1146	0. 0	·02035	1. 0	54 ·0	55 ·0
0. 30	44. 30	0. 42	·1141	0. 25	·02025	3. 0	54 ·0	56 ·0
1. 11	43. 55	1. 0	·1126	1. 55	·01864	9. 0	58 ·0	58 ·5
1. 41	37. 30	1. 32	·1128	2. 30	·01904	21. 0	53 ·1	54 ·2
2. 4	41. 0	1. 45	·1147	3. 22	·01896			
2. 58	39. 5	1. 57	·1156	5. 21	·01940			
3. 26	38. 30	2. 14	·1152	7. 13	·01870			
3. 29	39. 15	2. 24	·1156	9. 49	·01878			
4. 15	36. 40	2. 45	·1151	11. 40	·01978			
4. 50	30. 35	3. 15	·1152	12. 18	·01965			
5. 14	28. 45	3. 30	·1158	17. 21	·02357			
5. 50	32. 0	4. 20	·1143	23. 59	·02220			
6. 4	32. 5	5. 0	·1144					
6. 12	32. 55	5. 17	·1155					
6. 44	32. 30		***					
7. 2	32. 50	6. 10	·1146					
7. 25	32. 0	6. 30	·1147					
7. 56	33. 30	7. 0	·1142					
8. 28	31. 5	7. 40	·1146					
9. 53	33. 15	7. 51	·1144					
10. 47	31. 55	8. 35	·1144					
11. 38	36. 10	9. 0	·1150					
11. 45	40. 50	9. 10	·1154					
11. 57	38. 50	9. 20	·1151					
12. 5	39. 55		***					
12. 37	34. 10	10. 15	·1156					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	O V.F. Magnet.
Mar. 30		Mar. 30						
h m	° ′ ″	h m		h m		h m	°	°
12. 52	21. 37. 55	10. 40	·1152					
13. 13	34. 55	11. 30	·1153					
13. 32	35. 40	11. 38	·1164					
14. 40	32. 30	11. 45	·1162					
14. 57	35. 0	11. 58	·1166					
15. 42	34. 0	12. 10	·1159					
16. 30	33. 30	12. 35	·1158					
17. 28	35. 0	12. 50	·1147					
17. 51	37. 55	13. 7	·1153					
18. 11	35. 15	13. 13	·1152					
18. 22	36. 55	13. 24	·1155					
18. 50	36. 50	13. 40	·1152					
19. 9	37. 30	14. 20	·1160					
19. 54	31. 0	15. 2	·1154					
20. 7	31. 10	15. 15	·1161					
20. 19	30. 30	15. 35	·1160					
20. 54	30. 25	15. 38	·1156					
21. 46	32. 10	15. 40	·1160					
22. 53	37. 15	15. 44	·1158					
23. 10	37. 0	17. 3	·1161					
23. 59	39. 15	17. 10	·1165					
		17. 30	·1160					
		17. 36	·1164					
		17. 44	·1160					
		17. 45	·1164					
		17. 50	·1156					
		18. 2	·1152					
		18. 54	·1162					
			***					
		20. 6	·1148					
			***					
		22. 0	·1132					
			***					
		23. 59	·1127					
Mar. 31		Mar. 31		Mar. 31		Mar. 31		
0. 0	21. 39. 15	0. 25	·1127	0. 0	·02220	1. 0	55 ·5	55 ·8
0. 27	39. 30	0. 35	·1132	3. 56	·02063	3. 0	57 ·0	57 ·0
0. 36	39. 10	0. 45	·1128	6. 58	·02011	9. 0	56 ·0	57 ·0
0. 44	40. 55	0. 55	·1134	9. 6	·02030	21. 0	51 ·2	53 ·2
0. 57	40. 30		***	12. 44	·02223			
1. 58	41. 25	2. 25	·1136	12. 50	·02170			
2. 36	39. 40	3. 0	·1147	15. 0	·02170			
2. 45	40. 20	3. 30	·1142	17. 15	·02122			
4. 12	36. 10	4. 0	·1142	20. 30	·02150			
	***	4. 15	·1147	23. 59	·02158			
6. 0	33. 50	4. 22	·1144					
6. 39	31. 55	4. 35	·1151					
7. 12	31. 30	4. 49	·1138					
7. 44	34. 0	5. 0	·1144					
	***	5. 16	·1145					
8. 15	33. 5	5. 29	·1138					
	***	5. 50	·1145					
10. 52	33. 30	6. 15	·1136					
	***	6. 32	·1133					
11. 54	31. 35	7. 8	·1139					
	***	7. 43	·1148					
13. 0	35. 5	8. 10	·1147					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 31		Mar. 31						
h m	° ′ ″	h m		h m		h m	°	°
13. 26	21. 32. 40	8. 15	·1152					
13. 40	32. 30	8. 40	·1149					
14. 0	29. 50	9. 15	·1150					
	***	9. 25	·1156					
15. 21	37. 25	9. 45	·1152					
16. 0	34. 30		***					
16. 27	37. 10	10. 8	·1150					
16. 45	36. 30	10. 45	·1161					
	***	11. 5	·1154					
17. 26	36. 5	11. 25	·1154					
17. 33	37. 0		***					
18. 30	32. 0	11. 55	·1159					
	***	12. 13	·1154					
20. 30	29. 10	12. 30	·1156					
22. 0	30. 50	12. 50	·1164					
	***	13. 10	·1158					
23. 30	39. 40		***					
23. 59	39. 30	13. 55	·1160					
		14. 7	·1155					
			***					
		15. 0	·1156					
			***					
		15. 35	·1152					
			***					
		16. 30	·1164					
			***					
		17. 25	·1148					
		17. 45	·1156					
			***					
		18. 41	·1160					
			***					
		19. 15	·1148					
			***					
		21. 43	·1129					
			***					
		23. 30	·1124					
		23. 59	·1113					
Apr. 1		Apr. 1		Apr. 1		Apr. 1		
0. 0	21. 39. 30	0. 2	·1110	0. 0	·02158	1. 0	52 ·4	52 ·8
0. 12	43. 25	0. 40	·1112	2. 30:	·02206	3. 0	52 ·9	53 ·2
0. 31	42. 35	1. 10	·1126	6. 11:	·02100	9. 0	50 ·8	51 ·6
1. 15	43. 20	1. 43	·1119	9. 56	·02253	21. 43	40 ·5	43 ·0
1. 28	42. 35	1. 50	·1124	11. 11	·02220			
1. 50	43. 0		***	11. 15	·02168			
	***	2. 10	·1119	12. 53	·02186			
3. 23	37. 50	2. 18	·1125	15. 19	·02096			
3. 29	38. 10	2. 40	·1125	20. 40	·02110			
3. 45	36. 45	2. 53	·1131	23. 59	·02038			
5. 9	33. 20	3. 20	·1126					
	***	3. 25	·1133					
6. 14	32. 45	3. 40	·1129					
	***	4. 24	·1132					
8. 53	32. 15	4. 35	·1129					
9. 8	31. 0	4. 48	·1133					
9. 13	32. 40	5. 0	·1128					
9. 39	29. 50		***					
10. 11	29. 45	7. 25	·1138					
	***		***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 1		Apr. 1						
h m	° ′ ″	h m		h m		h m	°	°
10. 30	21. 31. 50	9. 0	·1134					
11. 0	28. 30	9. 13	·1141					
	***	9. 26	·1137					
11. 30	31. 40	9. 48	·1142					
	***	10. 7	·1136					
11. 57	32. 30	10. 35	·1146					
	***	11. 0	·1145					
12. 17	31. 10	11. 15	·1140					
	***		***					
13. 40	35. 0	12. 12	·1146					
	***	12. 25	·1140					
14. 26	35. 35	12. 50	·1146					
14. 44	41. 40	12. 55	·1142					
15. 5	37. 30	13. 40	·1144					
	***	14. 0	·1150					
15. 41	35. 0	14. 26	·1147					
	***	14. 55	·1134					
16. 11	33. 0	15. 10	·1145					
	***		***					
18. 30	33. 30	15. 55	·1154					
19. 45	29. 30	16. 25	·1148					
	***	16. 44	·1154					
21. 10	30. 0	17. 45	·1148					
22. 22	35. 40	17. 53	·1158					
22. 30	34. 30	17. 56	·1150					
22. 52	37. 30	18. 24	·1156					
23. 14	36. 50		***					
23. 40	41. 20	19. 10	·1148					
23. 59	41. 0		***					
		21. 25	·1138					
		21. 56	·1125					
			***					
		22. 47	·1136					
		23. 0	·1129					
		23. 30	·1134					
		23. 56	·1131					
Apr. 2		Apr. 2		Apr. 2		Apr. 2		
0. 0	21. 41. 5	0. 0	·1142	0. 0	·02038	7. 0	44 ·5	46 ·0
0. 14	43. 20	0. 40	·1134	1. 17	·02030	21. 0	45 ·8	48 ·0
0. 39	43. 0	0. 57	·1134	1. 52	·02050			
0. 51	44. 45	1. 22	·1124	4. 7	·01976			
1. 40	40. 35	1. 30	·1135	4. 30	·01995			
1. 53	42. 0		***	7. 0	·01840			
2. 11	40. 5	2. 12	·1143	9. 56	·01780			
3. 9	38. 30	2. 35	·1156	11. 11	·01778			
3. 27	39. 5	3. 0	·1156	11. 40	·01707			
4. 11	36. 45	3. 25	·1168	14: 4	·01763			
4. 42	20. 50	3. 45	·1168	19. 22	·01817			
4. 50	21. 50	4. 16	·1143	21. 17	·01642			
4. 59	21. 50	4. 42	·1183	23. 59	·01738			
5. 22	28. 0	4. 48	·1177					
6. 10	33. 20	4. 58	·1187					
6. 28	33. 10		***					
6. 39	33. 40	5. 15	·1159					
7. 0	33. 0	5. 25	·1161					
7. 23	33. 25	5. 30	·1152					
7. 45	31. 45	5. 40	·1155					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 2		Apr. 2						
h m	° ′ ″	h m		h m		h m	°	°
8. 9	21. 31. 25	6. 5	·1149					
9. 11	25. 0	6. 30	·1158					
9. 44	31. 25	6. 41	·1154					
10. 31	31. 30	7. 25:	·1158					
10. 36	33. 0		***					
10. 44	32. 0	8. 25	·1152					
10. 58	37. 0	8. 44	·1156					
11. 29	23. 55	9. 3	·1168					
11. 59	28. 0	9. 25	·1161					
12. 22	27. 30	9. 54	·1159					
12. 39	29. 0	10. 30	·1151					
12. 57	28. 20	10. 44	·1157					
13. 10	29. 25	10. 53	·1155					
13. 21	31. 0	11. 26	·1178					
13. 37	30. 50	11. 40	·1165					
	***	11. 56	·1177					
14. 12	33. 20	12. 40	·1151					
14. 32	31. 40		***					
14. 42	33. 0	13. 15	·1146					
15. 0	32. 0	13. 28	·1150					
15. 18	33. 20	13. 40	·1146					
15. 26	32. 10		***					
15. 36	33. 15	14. 26	·1150					
15. 51	31. 40	14. 40	·1147					
15. 58	33. 25	14. 59	·1154					
16. 21	32. 25	15. 8	·1151					
16. 29	32. 55	15. 51	·1156					
16. 44	32. 0	16. 4	·1153					
16. 58	32. 45	16. 28	·1159					
17. 8	31. 15	16. 53	·1158					
17. 23	33. 50	17. 11	·1150					
17. 45	33. 40	17. 20	·1154					
18. 21	31. 45	17. 47	·1151					
18. 27	32. 15		***					
	***	20. 0	·1152					
19. 30	30. 40		***					
19. 51	32. 50	22. 5	·1133					
20. 42:	29. 10	22. 40	·1117					
22. 12	35. 15	23. 59	·1117					
22. 44	35. 0							
23. 59	37. 45							
Apr. 3		Apr. 3		Apr. 3		Apr. 3		
0. 0	21. 37. 45	0. 0	·1117	0. 0	·01738	1. 0	52 ·2	53 ·4
0. 40	40. 0	0. 30	·1118	1. 11	·01794	3. 0	55 ·7	57 ·2
	***		***	2. 44	·01950	9. 0	56 ·2	57 ·2
2. 6	41. 40	1. 31	·1122	4. 0	·01900	22. 18	52 ·3	54 ·2
2. 30	39. 20		***		(†)			
2. 40	39. 55	2. 31	·1116	9. 1	·02010			
3. 12	38. 40	3. 0	·1126	10. 6	·02077			
3. 27	39. 25	3. 15	·1119	11. 12	·02067			
3. 52	36. 30	3. 30	·1128	14. 30	·02175			
	***	3. 58	·1112	18. 12	·02418			
5. 45	31. 15	4. 6	·1117	22. 23	·02378			
6. 9	31. 50	4. 17	·1112	23. 59	·02411			
	(†)	4. 34	·1116					
9. 1	29. 10	5. 5	·1110					
9. 15	30. 0	5. 40	·1125					
			(†)					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 3		Apr. 3						
h m	° ′ ″	h m		h m		h m	°	°
9. 26	21. 29. 10	9. 0	·1124					
9. 52	30. 0	9. 52	·1122					
10. 7	33. 30	10. 6	·1138					
10. 14	31. 55	10. 16	·1130					
10. 20	32. 45	10. 25	·1136					
10. 29	31. 30	10. 35	·1135					
10. 42	33. 25	10. 45	·1148					
11. 0	28. 30	11. 10	·1128					
11. 28	30. 15	11. 25	·1132					
12. 19	31. 10	11. 37	·1122					
12. 55	33. 20	11. 45	·1126					
	***	12. 9	·1122					
13. 44	32. 30		***					
14. 12	36. 0	13. 16	·1129					
15. 36	32. 0		***					
16. 22	33. 45	14. 10:	·1124					
	***		***					
17. 10	31. 30	15. 20	·1130					
17. 29	32. 25	15. 45	·1126					
18. 6	31. 15	16. 25	·1134					
18. 14	31. 50		***					
	***	17. 58	·1128					
18. 51	31. 10	18. 15	·1133					
	***	18. 17	·1129					
19. 0	31. 30	19. 0	·1132					
	***		***					
19. 45	29. 30	21. 40	·1115					
	***		***					
19. 57	30. 0	23. 59	·1106					
	***							
20. 30	29. 0							
	***							
21. 49	29. 30							
22. 11	34. 30							
22. 15	33. 30							
22. 30	36. 30							
23. 10	37. 30							
23. 15	39. 0							
23. 59	40. 30							
Apr. 4		Apr. 4		Apr. 4		Apr. 4		
0. 0	21. 40. 30	0. 0	·1106	0. 0	·02411	9. 37	54 ·0	55 ·8
1. 15	41. 50		***	2. 28	·02377	21. 0	46 ·0	48 ·0
2. 44	39. 0	2. 23	·1112	4. 29	·02286			
2. 57	39. 45	3. 0	·1120	7. 50:	·02160			
3. 39	36. 20	3. 40	·1112	12. 26	·02363			
3. 44	36. 25	4. 35	·1125	20. 0	·02280			
	***		***	22. 45	·02233			
4. 44	33. 30	5. 11	·1109	23. 59	·02222			
	***		***					
6. 35	32. 15	7. 10	·1120					
6. 47	30. 50	7. 30	·1110					
7. 6	31. 30	7. 54	·1115					
7. 44	28. 45	7. 58	·1112					
8. 4	29. 20		***					
8. 25	27. 45	9. 35	·1128					
8. 56	29. 25	9. 47	·1120					
9. 14	27. 30	10. 15	·1120					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 4		Apr. 4						
h m	° ′ ″	h m		h m		h m	°	°
9. 38	21. 29. 10	10. 40	·1125					
10. 51	29. 0	10. 55	·1120					
11. 7	27. 0	11. 9	·1126					
11. 22	29. 5	11. 30	·1152					
11. 28	27. 45	12. 7	·1126					
11. 57	31. 50	12. 30	·1130					
12. 9	32. 20	12. 56	·1124					
12. 15	31. 10	14. 0	·1129					
12. 33	32. 0		***					
14. 12	31. 30	14. 49	·1127					
14. 52	32. 30	15. 33	·1127					
	***	18. 15:	·1135					
15. 43	31. 40	19. 30	·1127					
	***	19. 50	·1129					
17. 13	31. 30	21. 22	·1119					
	***	22. 10	·1111					
18. 54	28. 30	22. 25	·1116					
19. 10	29. 10	23. 15	·1098					
19. 30	27. 0	23. 59	·1100					
19. 46	28. 15							
20. 40:	26. 10							
22. 12	28. 40							
22. 54	33. 10							
23. 16	34. 30							
	(†)							
Apr. 5		Apr. 5		Apr. 5		Apr. 5		
	(†)	0. 0	·1100	0. 0	·02222	1. 0	49 ·8	50 ·3
0. 15	21. 39. 20	1. 34	·1105	1. 40:	·02220	3. 0	52 ·0	52 ·0
0. 30	38. 50	1. 50	·1103	8. 15:	·01743	9. 0	52 ·2	52 ·3
1. 40	41. 30	2. 25	·1108	14. 52	·01952	21. 0	47 ·0	47 ·5
2. 20	40. 20	2. 48	·1107	20. 27	·02256			
3. 19	36. 30	3. 45	·1119	22. 7	·02196			
4. 14	35. 30		***	23. 30	·02190			
6. 21	31. 0	6. 50	·1118	23. 59	·02154			
	***		***					
11. 43	31. 55	11. 46	·1128					
	***	12. 12	·1133					
12. 30	31. 0	13. 15	·1130					
13. 15	32. 30	13. 55	·1132					
13. 53	31. 30	15. 28	·1132					
	***		***					
18. 6	30. 55	18. 45:	·1133					
18. 15	30. 0		***					
18. 26	30. 0	23. 59	·1100					
18. 40	29. 15							
19. 7	30. 0							
19. 44	28. 30							
	***							
21. 15	29. 30							
22. 45	34. 20							
23. 59	37. 25							
Apr. 6		Apr. 6		Apr. 6		Apr. 6		
0. 0	21. 37. 25	0. 0	·1100	0. 0	·02154	1. 0	49 ·0	49 ·0
0. 24	37. 30	0. 30	·1112	2. 43	·02058	3. 0	51 ·0	51 ·0
0. 39	38. 50	0. 50	·1110	8. 13:	·01744	9. 0	51 ·0	52 ·0
0. 56	38. 30	2. 5	·1115	13. 2	·01800	21. 0	47 ·0	48 ·3
			***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 6		Apr. 6		Apr. 6				
h m	° ′ ″	h m		h m		h m	°	°
1. 45	21. 39. 0	2. 42	·1126	20. 57	·02163			
	***	3. 7	·1120	21. 4	·02073			
2. 43	38. 0	4. 0	·1126	21. 43	·02086			
3. 17	35. 30	6. 53	·1122	23. 59	·02010			
4. 40	33. 10	10. 45	·1128					
6. 14	32. 0	11. 45	·1126					
7. 0	32. 30	14. 44	·1128					
9. 9	31. 45	19. 15:	·1130					
9. 39	32. 30	22. 45	·1106					
11. 10	31. 30	23. 50	·1110					
12. 12	31. 40							
17. 39	31. 5							
18. 24	30. 40							
19. 43	28. 0							
20. 42	27. 30							
21. 52	29. 10							
23. 59	36. 55							
Apr. 7		Apr. 7		Apr. 7		Apr. 7		
0. 0	21. 36. 55	0. 0	·1108	0. 0	·02010	1. 0	49 ·2	50 ·0
0. 40	38. 40	1. 16	·1108	2. 12	·01956	3. 0	50 ·0	51 ·3
2. 2	38. 40		***	4. 47	·01733	9. 0	52 ·4	53 ·0
4. 52	33. 0	4. 35	·1118	8. 41	·01708	21. 0	48 ·0	49 ·0
6. 0	31. 40	5. 35	·1118	12. 22	·01797			
9. 14	32. 30	15. 0	·1132	17. 8	·02027			
	***	19. 15:	·1131	17. 15	·01987			
17. 9	31. 35	22. 5	·1115	20. 30:	·01973			
18. 26	30. 0	23. 59	·1110	23. 59	·01827			
20. 29	26. 35							
21. 30	28. 30							
23. 59	37. 0							
Apr. 8		Apr. 8		Apr. 8		Apr. 8		
0. 0	21. 37. 0	0. 0	·1110	0. 0	·01827	1. 0	52 ·2	53 ·0
1. 13	38. 30	0. 30	·1110	1. 42	·01726	3. 0	55 ·0	54 ·0
	***	0. 55	·1116	3. 26	·01797	9. 5	53 ·6	53 ·5
4. 11	35. 0	2. 10	·1122	6. 52	·01744	21. 0	47 ·0	47 ·7
4. 21	35. 55		***	8. 53	·01808			
4. 36	34. 30	4. 15	·1122		***			
	***	4. 27	·1130	13. 45	·02155			
5. 40	33. 40	4. 40	·1126	14. 19	·02107			
	***	4. 52	·1129	15. 0	·02190			
6. 10	33. 40	5. 0	·1126	15. 42	·02148			
	***		***	19. 4	·02223			
7. 52	33. 0	5. 45	·1134	19. 11	·02164			
	***	5. 50	·1129	19. 39	·02178			
8. 58	30. 40	6. 15	·1134	22. 25	·02156			
	***	7. 6	·1136	23. 19	·02166			
11. 9	31. 30	7. 30	·1142		(†)			
	***	7. 45	·1140					
11. 32	29. 50	8. 20	·1144					
	***	8. 40	·1136					
12. 2	30. 20		***					
12. 36	26. 10	10. 30	·1144					
12. 50	28. 10	10. 43	·1139					
12. 55	26. 0	11. 0	·1140					
13. 11	21. 0	11. 13	·1148					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 8		Apr. 8						
h m	° ′ ″	h m		h m		h m	°	°
13. 30	21. 20. 45	11. 21	·1144					
13. 54	28. 30	11. 40	·1152					
14. 10	28. 30	11. 55	·1150					
14. 28	22. 30	12. 20	·1139					
14. 49	23. 0	12. 40	·1138					
15. 10	27. 30	12. 48	·1140					
15. 28	24. 0	13. 7	·1150					
15. 49	20. 0	13. 43	·1139					
16. 10	18. 50	14. 0	·1139					
16. 57	28. 0	14. 25	·1149					
	***	14. 51	·1131					
17. 48	29. 0	15. 6	·1142					
18. 45	26. 0	15. 17	·1160					
19. 10	27. 0	15. 32	·1159					
	***	16. 30	·1128					
19. 45	24. 0	17. 10	·1124					
20. 9	25. 30		***					
20. 16	24. 30	18. 0	·1132					
20. 45	29. 10	18. 15	·1128					
20. 54	29. 0	18. 47	·1131					
21. 45	33. 20	19. 0	·1135					
21. 57	33. 0	19. 44	·1131					
	***	20. 0	·1135					
23. 18	36. 30	20. 30	·1131					
23. 59	38. 30	21. 25	·1117					
			***					
		22. 54	·1107					
		23. 0	·1100					
			***					
		23. 59	·1106					
Apr. 9		Apr. 9		Apr. 9		Apr. 9		
0. 0	21. 38. 30	0. 0	·1107		(†)	1. 0	49 ·0	50 ·5
0. 26	40. 0	0. 44	·1114	0. 37	·02175	3. 0	49 ·5	50 ·0
1. 2	43. 30	1. 14	·1090	1. 18	·02164	9. 0	48 ·8	49 ·5
1. 17	42. 30	1. 25	·1094	1. 40	·02183	21. 0	44 ·8	46 ·0
1. 45	49. 30	1. 42	·1120	2. 12	·02190			
2. 17	54. 0	1. 52	·1112		***			
2. 27	51. 0	2. 20	·1132	2. 55	·02330			
2. 30	52. 10	2. 29	·1126		***			
2. 39	50. 45	2. 32	·1132	3. 22	·02503			
2. 45	55. 0	2. 39	·1127	3. 30	·02806			
2. 53	49. 50	2. 50	·1146	3. 40	·02700			
2. 57	52. 55		***		(†)			
3. 2	50. 30	3. 10	·1140	4. 10	·02687			
3. 5	51. 25		***	4. 19	·03064			
3. 8	49. 30	3. 39	·1199	4. 26	·03023			
3. 14	54. 45	3. 45	·1164	4. 30	·02824			
3. 18	21. 54. 10	3. 55	·1268		(†)			
3. 30	22. 4. 35		(†)	4. 45	·02840			
	(†)	4. 14	·1276	4. 53	·03080			
4. 44	21. 52. 45	4. 20	·1312	4. 59	·02795			
4. 59	21. 42. 10	4. 28	·1282	5. 12	·02960			
5. 6	22. 0. 45	4. 40	·1312	5. 16	·02984			
5. 22	21. 29. 25		(†)	5. 27	·02560			
5. 27	40. 0	5. 10	·1208	5. 31	·02793			
5. 39	35. 0	5. 15	·1252	5. 40	·02646			

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 9		Apr. 9		Apr. 9				
h m	° ′ ″	h m		h m		h m	°	°
5. 43	21. 49. 5	5. 19	·1235	5. 43	·02709			
	***	5. 22	·1248	5. 45	·02652			
5. 54	48. 15	5. 25	·1209	5. 51	·02699			
5. 57	57. 0	5. 31	·1137	6. 0	·02554			
6. 2	21. 56. 45	5. 40	·1228	6. 9	·02653			
6. 8	22. 1. 35	5. 43	·1115		***			
	(†)	5. 55	·1282	6. 14	·02464			
6. 23	22. 0. 50	6. 10	·1228		***			
6. 29	21. 52. 0	6. 12	·1240	6. 34	·02997			
6. 32	54. 0	6. 25	·1114	6. 41	·02763			
6. 43	46. 30	6. 40	·1262	6. 44	·02841			
6. 45	48. 35	7. 0	·1120	6. 53	·02673			
6. 51	41. 30	7. 7	·1198	7. 4	·02996			
6. 57	45. 0	7. 25	·1086	7. 27	·02408			
7. 21	18. 30	7. 33	·1098	7. 31	·02415			
7. 35	25. 10		***	7. 42	·02220			
7. 41	20. 0	7. 54	·1059		***			
8. 28	41. 10	8. 9	·1059	7. 56	·02153			
8. 36	40. 15	8. 20	·1074	8. 11	·02154			
8. 43	42. 0	8. 27	·1066	8. 15	·02184			
8. 47	41. 0		***	8. 38	·02120			
8. 59	44. 5	9. 2	·1054	8. 44	·02150			
9. 13	26. 15	9. 15	·1074	9. 14	·02248			
9. 32	29. 10	9. 24	·1062	9. 37	·02114			
9. 52	24. 35	9. 40	·1052		***			
10. 10	26. 10	10. 0	·1070	10. 30	·02140			
10. 15	29. 10	10. 14	·1092	10. 50	·01990			
10. 30	21. 15	10. 23	·1079	11. 0	·01936			
10. 42	26. 30	10. 42	·1101	11. 53	·01984			
10. 48	23. 30	10. 55	·1074	12. 14	·02043			
11. 6	25. 0	11. 15	·1050	12. 50	·02078			
11. 25	22. 5	11. 44	·1055	13. 0	·02056			
11. 52	25. 0	12. 0	·1049	13. 24	·02103			
12. 10	20. 10	12. 20	·1056	13. 39	·02156			
12. 23	20. 30	12. 30	·1052	14. 7	·02037			
12. 39	24. 10	12. 45	·1084	14. 22	·02076			
	***	13. 0	·1068	14. 52	·02183			
12. 54	22. 30	13. 10	·1068	17. 29	·02296			
13. 4	23. 40	13. 55	·1120	18. 22	·02296			
13. 14	19. 30	14. 11	·1100		***			
13. 25	26. 0	14. 27	·1086	19. 52	·02195			
13. 34	22. 30		***	20. 7	·02210			
13. 54	25. 30	14. 55	·1080	20. 52	·02176			
14. 0	27. 30		***	22. 0	·02184			
14. 12	26. 15	17. 25	·1098		***			
	***		***	22. 46	·02155			
14. 52	31. 20	18. 25	·1098	23. 0	·02167			
15. 15	28. 30	18. 50	·1088	23. 59	·02107			
	***	19. 0	·1088					
15. 29	30. 20	19. 27	·1052					
	***	19. 45	·1056					
15. 50	28. 55	20. 10	·1080					
15. 58	30. 20	20. 40	·1088					
16. 14	29. 10	21. 0	·1083					
	***		***					
16. 30	30. 0	21. 54	·1084					
16. 41	28. 0	22. 8	·1096					
16. 44	29. 10	22. 13	·1090					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 9		Apr. 9						
h m	° ′ ″	h m		h m		h m	°	°
17. 7	21. 28. 20	22. 18	·1098					
17. 22	28. 30	22. 22	·1090					
	***	22. 30	·1096					
18. 15	26. 50	22. 40	·1086					
18. 19	27. 35	22. 45	·1090					
18. 27	26. 30	22. 55	·1070					
	***	23. 17	·1084					
18. 52	23. 55	23. 30	·1066					
	***	23. 45	·1059					
19. 22	29. 25	23. 59	·1061					
19. 41	35. 30							
19. 54	35. 55							
20. 4	39. 0							
20. 8	37. 0							
20. 19	36. 20							
20. 22	37. 5							
20. 36	34. 30							
	***							
21. 0	33. 5							
	***							
21. 43	32. 35							
21. 51	31. 0							
	***							
22. 16	36. 10							
22. 25	35. 55							
22. 43	40. 0							
22. 55	36. 30							
23. 4	39. 30							
23. 16	38. 0							
23. 30	36. 40							
23. 44	37. 30							
23. 58	37. 40							
Apr. 10		Apr. 10		Apr. 10		Apr. 10		
0. 15	21. 47. 10	0. 5	·1063	0. 0	·02107	1. 0	49 ·3	49 ·4
0. 36	43. 15	0. 15	·1088	0. 55	·02070	3. 0	53 ·0	52 ·0
1. 27	45. 10	0. 30	·1056	1. 14	·02030	9. 0	53 ·2	53 ·4
1. 45	52. 0	0. 34	·1064	1. 51	·02173	22. 34	42 ·4	44 ·5
2. 15	41. 45	0. 44	·1048	2. 27	·02106			
2. 30	42. 40	1. 7	·1069	3. 7	·02155			
2. 39	40. 10	1. 17	·1055	3. 28	·02320			
2. 48	44. 30	1. 32	·1088	3. 58	·02175			
2. 58	41. 30	1. 45	·1073	4. 38	·02067			
3. 10	48. 0	2. 24	·1123	5. 26	·02117			
3. 14	50. 0	2. 40	·1110	5. 56	·02093			
3. 18	47. 15	2. 55	·1094	6. 43	·02163			
3. 27	53. 30		***	6. 52	·02080			
3. 38	41. 10	3. 12	·1080	7. 2	·02141			
3. 45	42. 5	3. 20	·1096	7. 22	·02053			
3. 52	40. 10	3. 25	·1092	7. 45	·02012			
3. 54	42. 20	3. 39	·1119	9. 43	·02006			
4. 16	36. 30	3. 58	·1088	10. 11	·01892			
4. 28	37. 0	4. 9	·1088	10. 17	·01933			
4. 46	40. 35	4. 23	·1094	10. 40	·01953			
5. 2	39. 20	4. 32	·1084	10. 55	·01907			
5. 12	41. 15	4. 42	·1098	11. 28	·01958			
5. 26	39. 0	5. 1	·1098	11. 45	·01933			
5. 45	35. 45	5. 10	·1092	12. 0	·01952			

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 10		Apr. 10		Apr. 10				
h m	° ′ ″	h m		h m		h m	°	°
6. 16	21. 37. 35	5. 13	·1093	12. 15	·01938			
6. 19	37. 0	5. 40	·1077	12. 30	·01980			
6. 28	37. 30		***	13. 0	·01966			
6. 32	36. 0	6. 31	·1113	14. 11	·02054			
6. 45	40. 30	6. 44	·1060	14. 24	·02026			
	(†)	7. 2	·1113	15. 21	·02165			
7. 36	34. 30	7. 10	·1074	16. 0	·02177			
7. 45	23. 0	7. 24	·1116	16. 15	·02197			
8. 0	30. 30	7. 34	·1068	17. 43	·02150			
8. 10	32. 55	7. 46	·1092	19. 25	·02180			
8. 24	30. 0	7. 53	·1076	21. 0	·02166			
8. 36	32. 20		***	23. 59	·02280			
8. 47	29. 40	8. 30	·1177					
8. 59	32. 30	8. 55	·1089					
9. 3	32. 0	9. 20	·1074					
9. 12	33. 30	9. 28	·1088					
9. 15	33. 0	9. 43	·1063					
9. 27	35. 50	9. 53	·1102					
9. 33	34. 25	10. 0	·1122					
9. 41	36. 40	10. 25	·1069					
9. 52	16. 0	10. 54	·1104					
10. 0	20. 30	11. 2	·1094					
10. 22	36. 50	11. 10	·1096					
10. 39	22. 0	11. 40	·1070					
10. 51	18. 30	12. 10	·1092					
11. 1	21. 40	12. 17	·1081					
11. 40	17. 0	12. 45	·1109					
12. 0	35. 0	12. 55	·1102					
12. 11	36. 15	13. 5	·1107					
12. 45	26. 25	13. 14	·1097					
12. 53	27. 55	13. 24	·1110					
	***	13. 40	·1092					
13. 18	23. 15	13. 45	·1096					
13. 38	29. 10	14. 7	·1082					
14. 0	18. 40	14. 15	·1084					
14. 33	24. 30	14. 25	·1079					
14. 40	23. 0	14. 30	·1088					
14. 44	24. 0	14. 39	·1087					
14. 49	22. 45	14. 55	·1094					
15. 10	25. 0	15. 2	·1088					
15. 24	25. 0	15. 12	·1088					
15. 38	27. 0	15. 25	·1098					
15. 43	26. 10		***					
16. 7	30. 15	16. 5	·1086					
16. 15	30. 20	16. 22	·1100					
16. 39	31. 20	16. 31	·1100					
16. 44	30. 50	16. 40	·1107					
16. 49	32. 30	16. 47	·1107					
16. 54	31. 55	16. 55	·1102					
16. 57	32. 20		***					
17. 12	30. 0	18. 0	·1113					
17. 41	33. 5	18. 12	·1108					
18. 6	33. 30	18. 38	·1113					
18. 23	31. 0	18. 50	·1112					
18. 32	32. 30	19. 17	·1096					
18. 45	31. 0	19. 42	·1096					
18. 54	31. 55	20. 0	·1083					
	***	20. 22	·1077					
			***					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
19. 28	21. 31. 30	20. 45	·1083					
19. 45	32. 55	20. 55	·1077					
19. 55	32. 15	21. 12	·1088					
20. 38	38. 30		***					
	***	21. 25	·1085					
21. 12	38. 0	23. 40	·1087					
21. 30	40. 15	23. 46	·1103					
21. 52	40. 0	23. 59	·1101					
22. 54	41. 0							
23. 15	44. 50							
23. 27	42. 30							
23. 39	41. 0							
23. 44	42. 30							
23. 56	42. 0							
23. 59	42. 25							
Apr. 11		Apr. 11		Apr. 11		Apr. 11		
0. 0	21. 42. 25	0. 0	·1102	0. 0	·02280	6. 50	51 ·0	52 ·5
0. 10	43. 30	0. 15	·1098	0. 40	·02259	21. 0	47 ·0	48 ·4
0. 13	42. 0	0. 24	·1088	1. 50	·02310			
0. 16	43. 15	0. 41	·1092		***			
0. 22	41. 50	0. 50	·1106	5. 23	·01883			
0. 47	45. 40	1. 7	·1112	8. 58	·01846			
1. 0	44. 0	1. 31	·1098	9. 29	·01880			
1. 19	46. 50	1. 53	·1119		***			
1. 52	37. 0	2. 4	·1106	13. 15	·01759			
2. 10	33. 30	2. 20	·1124	16. 45	·01944			
2. 24	38. 0	2. 35	·1108	17. 18	·01947			
2. 41	38. 0	2. 40	·1114	19. 0	·02078			
2. 45	37. 10	2. 55	·1104	23. 7	02303			
	***	3. 17	·1111	23. 59	·02297			
3. 18	40. 20		***					
3. 31	38. 40	3. 45	·1099					
3. 40	39. 30		***					
4. 9	34. 0	4. 29	·1114					
4. 15	35. 40	4. 42	·1102					
4. 28	35. 0	4. 52	·1104					
4. 45	31. 50	5. 10	·1134					
5. 7	24. 15		***					
5. 23	30. 0	5. 45	·1114					
5. 45	33. 20	6. 7	·1108					
5. 56	31. 30	6. 29	·1115					
6. 0	31. 50	6. 37	·1111					
6. 13	30. 55	6. 54	·1126					
6. 28	32. 0	7. 7	·1112					
6. 59	29. 0	7. 40	·1103					
7. 10	30. 5	7. 50	·1108					
7. 13	30. 50	8. 0	·1102					
7. 24	31. 55	8. 13	·1108					
7. 40	30. 30	8. 30	·1102					
7. 58	30. 15	8. 55	·1108					
8. 15	25. 0	9. 6	·1104					
8. 28	26. 35	9. 15	·1116					
	***	9. 26	·1102					
8. 48	24. 20	9. 35	·1106					
9. 15	33. 0	9. 55	·1101					
9. 26	32. 15	10. 10	·1107					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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		m	°	°
9. 39	21. 35. 45	10. 40	·1100					
9. 44	33. 0		***					
10. 12	26. 0	11. 20	·1100					
10. 36	25. 10	11. 50	·1108					
10. 44	26. 0	12. 2	·1101					
10. 57	25. 0	12. 14	·1109					
11. 30	30. 10	12. 30	·1095					
12. 0	28. 15	12. 51	·1106					
12. 24	35. 0	13. 0	·1106					
12. 31	33. 50	13. 10	·1112					
12. 45	33. 30	13. 18	·1109					
12. 51	33. 50	14. 0	·1111					
13. 11	32. 45		***					
13. 15	32. 45	15. 8	·1099					
13. 52	28. 50	15. 46	·1104					
14. 14	28. 55	16. 18	·1102					
14. 43	28. 0	17. 0	·1122					
14. 55	29. 0	17. 26	·1119					
15. 44	28. 0	17. 45	·1104					
16. 16	30. 30	18. 16	·1106					
16. 30	30. 20	18. 55	·1098					
16. 33	31. 0	19. 45	·1099					
16. 59	30. 40	20. 25	·1088					
17. 9	31. 10	21. 0	·1065					
17. 22	29. 20	21. 35	·1058					
17. 37	30. 0	22. 1	·1070					
17. 57	28. 30	22. 55	·1064					
18. 12	29. 50		***					
18. 25	27. 40	23. 59	·1089					
18. 37	27. 30							
18. 57	28. 35							
19. 10	27. 30							
19. 39	27. 20							
19. 54	27. 45							
20. 10	25. 30							
	***							
21. 10	29. 35							
21. 28	32. 30							
21. 45	32. 0							
22. 28	36. 30							
22. 40	36. 0							
22. 52	37. 20							
23. 12	37. 0							
23. 22	37. 15							
23. 30	36. 50							
23. 59	39. 30							
Apr. 12		Apr. 12		Apr. 12		Apr. 12		
0. 0	21. 39. 30	0. 0	·1090	0. 0	·02297	1. 0	50 ·0	50 ·7
0. 12	40. 15	0. 8	·1092	0. 53	·02293	3. 0	52 ·7	52 ·8
0. 22	38. 35	0. 15	·1086	1. 56	·02237	9. 0	53 ·0	53 ·0
1. 8	40. 30		***	3. 45	·02017	21. 0	46 ·8	47 ·0
	***	0. 55	·1096	4. 42	·01953			
2. 13	38. 0	1. 10	·1090		·02032			
2. 41	38. 55	2. 0	·1098	8. 30	·01953			
3. 0	36. 0	2. 10	·1093	10. 30	·01936			
3. 17	36. 30	2. 35	·1101	12. 21	·02007			
3. 44	35. 20	3. 0	·1092	13. 12	·01976			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 12 h m	° ′ ″	Apr. 12 h m		Apr. 12 h m		h m	°	°
4. 2	21. 36. 30	3. 45	·1096	14. 45	·02120			
4. 29	35. 30	4. 9	·1107	16. 45	·02293			
4. 45	36. 30		***	17. 30	·02273			
4. 52	36. 0	5. 5	·1107	18. 56	·02275			
5. 11	36. 5	5. 30	·1114	23. 56	·02206			
5. 50	32. 55	5. 46	·1104					
6. 0	29. 0	6. 2	·1117					
6. 12	32. 30	6. 11	·1108					
6. 24	30. 30	6. 31	·1109					
6. 40	31. 40	6. 44	·1099					
6. 49	30. 45	6. 55	·1102					
6. 58	30. 45	7. 4	·1097					
7. 22	28. 50	7. 42	·1098					
7. 45	30. 55	7. 55	·1094					
8. 10	26. 30	8. 10	·1107					
8. 21	29. 30	8. 23	·1101					
8. 30	30. 15	8. 39	·1098					
8. 45	29. 30	9. 28	·1100					
8. 59	30. 0	9. 47	·1113					
9. 5	29. 30	10. 0	·1110					
9. 42	33. 10	10. 20	·1113					
9. 46	32. 30	10. 43	·1102					
9. 52	33. 40	11. 41	·1110					
10. 40	30. 0	12. 1	·1100					
10. 54	31. 20	12. 44	·1104					
11. 39	31. 30		***					
12. 15	40. 0	13. 55	·1112					
12. 34	39. 50	14. 9	·1106					
12. 57	34. 30	14. 30	·1116					
13. 11	33. 25	14. 40	·1114					
13. 29	30. 50	14. 50	·1118					
13. 59	31. 50	15. 18	·1104					
14. 28	30. 45		***					
14. 52	25. 0	16. 10	·1108					
15. 24	25. 35		***					
16. 0	32. 50	17. 29	·1133					
16. 13	32. 20	17. 45	·1128					
16. 26	33. 0		***					
16. 45	30. 0	18. 42	·1120					
17. 30	31. 30	19. 7	·1124					
17. 40	31. 0		***					
18. 5	31. 20	20. 8	·1103					
18. 29	29. 30	20. 35	·1107					
18. 36	30. 0	22. 5	·1083					
18. 45	29. 20	22. 30	·1086					
18. 59	30. 45	22. 45	·1092					
	***	23. 25	·1089					
19. 31	31. 30	23. 38	·1092					
	***	23. 54	·1086					
20. 27	28. 50							
20. 39	32. 0							
21. 6	30. 0							
21. 40	32. 30							
22. 6	35. 10							
22. 29	34. 30							
22. 40	35. 30							
23. 12	36. 45							
23. 30	38. 40							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 12 h m	° ′ ″	h m		h m		h m	°	°
23. 45	21. 37. 45							
23. 59	40. 20							
Apr. 13		Apr. 13		Apr. 13		Apr. 13		
0. 0	21. 40. 25	0. 0	·1093	0. 12	·02204	1. 0	51 ·0	50 ·7
0. 51	42. 30	0. 25	·1091		***	3. 0	54 ·2	53 ·6
1. 32	41. 50	0. 40	·1093	3. 21	·01967	9. 0	55 ·0	54 ·2
1. 55	43. 45	1. 10	·1086	4. 7	·01980	21. 0	44 ·7	46 ·2
2. 12	41. 50	1. 27	·1088	5. 43	·01938			
2. 24	42. 30	2. 0	·1108	5. 52	·01957			
2. 44	38. 55	2. 8	·1101	9. 52	·01893			
3. 0	35. 10	2. 30	·1100	11. 7	·01947			
3. 10	39. 40	2. 45	·1118	12. 22	·01913			
3. 25	32. 0	2. 55	·1112	12. 52	·02020			
	***	3. 6	·1126	14. 45	·02303			
3. 55	32. 30	3. 16	·1108	15. 26	·02243			
4. 10	36. 20	3. 25	·1122	15. 48	·02256			
4. 26	36. 0	3. 55	·1102	16. 45	·02193			
4. 39	37. 0	4. 7	·1107	18. 0	·02203			
4. 52	36. 30	5. 0	·1090	21. 39	·02196			
5. 22	36. 0	5. 44	·1104	23. 59	·02197			
5. 54	33. 50		***					
6. 10	33. 45	6. 35	·1093					
6. 30	31. 50		***					
7. 4	31. 10	7. 16	·1101					
7. 26	33. 40	7. 30	·1098					
7. 50	33. 40	7. 52	·1097					
8. 10	29. 45	8. 10	·1114					
8. 15	31. 0	8. 23	·1116					
8. 29	28. 30	8. 34	·1136					
8. 42	33. 40	8. 40	·1127					
8. 50	33. 30	8. 47	·1127					
9. 17	26. 0	9. 0	·1116					
9. 30	28. 0	9. 10	·1115					
9. 58	22. 30	9. 23	·1125					
10. 46	30. 50	9. 40	·1109					
10. 59	28. 0	9. 55	·1105					
11. 11	30. 40	10. 6	·1108					
11. 30	25. 50	10. 29	·1100					
11. 48	29. 30	10. 48	·1101					
12. 15	24. 50	11. 10	·1131					
12. 54	30. 30	11. 31	·1116					
13. 12	28. 0	11. 40	·1119					
14. 10	34. 10	11. 47	·1116					
14. 56	31. 30	12. 6	·1097					
15. 40	42. 0	12. 40	·1112					
16. 13	35. 50	12. 48	·1108					
17. 7	32. 30	12. 57	·1112					
17. 12	32. 50	13. 12	·1106					
17. 39	30. 50		***					
17. 52	31. 30	14. 30	·1114					
18. 22	31. 30	14. 54	·1122					
18. 35	32. 15	15. 25	·1113					
18. 53	31. 0	15. 51	·1126					
19. 10	31. 0	16. 5	·1122					
19. 13	30. 0	16. 35	·1132					
19. 33	31. 40		***					
19. 49	30. 30	18. 29	·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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
20. 5	21. 29. 0	18. 40	·1120					
20. 41	31. 40		***					
20. 52	31. 30	19. 40	·1117					
21. 43	34. 30	20. 50	·1102					
22. 10	34. 30	21. 0	·1102					
22. 30	36. 25	22. 0	·1082					
23. 0	38. 50	22. 44	·1088					
23. 17	37. 40	23. 0	·1084					
23. 30	39. 0	23. 22	·1101					
23. 45	38. 30	23. 40	·1096					
23. 56	39. 30	23. 59	·1109					
23. 59	39. 0							
Apr. 14		Apr. 14		Apr. 14		Apr. 14		
0. 0	21. 39. 0	0. 0	·1109	0. 0	·02197	1. 0	49 ·0	50 ·4
0. 45	40. 25	0. 43	·1106	0. 53	·02160	3. 0	53 ·0	54 ·5
1. 18	42. 50	1. 15	·1111	2. 51	·01867	9. 0	57 ·8	56 ·8
1. 45	41. 40	1. 55	·1102	3. 43	·01930	21. 3	52 ·0	52 ·2
2. 30	41. 0	2. 25	·1102	5. 39	·01980			
2. 40	41. 30	2. 42	·1108	6. 28	·01950			
2. 58	38. 45	2. 56	·1098	7. 12	·01962			
3. 12	39. 10		***	8. 2	·01913			
3. 32	37. 30	4. 5	·1107	10. 22	·01917			
3. 56	34. 30	4. 24	·1116	13. 12	·01972			
4. 36	34. 30	4. 40	·1107	14. 13	·01960			
5. 10	29. 20	4. 52	·1107	15. 52	·02018			
5. 37	29. 30	5. 0	·1100	21. 0	·02383			
5. 59	32. 20	5. 15	·1100	23. 0	·02437			
6. 33	32. 40	5. 46	·1120	23. 59	·02417			
6. 43	33. 30	6. 5	·1116					
7. 10	30. 20	6. 30	·1103					
7. 25	31. 30	7. 12	·1122					
7. 36	28. 10	7. 25	·1120					
7. 55	26. 30	7. 41	·1153					
8. 4	28. 50	7. 55	·1129					
8. 13	26. 30	8. 5	·1111					
8. 30	30. 50	8. 17	·1118					
	***	8. 35	·1106					
8. 54	30. 45		***					
9. 11	32. 30	9. 28	·1111					
9. 41	30. 0	9. 49	·1108					
10. 0	31. 0	10. 35	·1114					
10. 27	28. 0	10. 50	·1112					
10. 44	27. 45	10. 59	·1107					
10. 57	29. 45	11. 13	·1110					
11. 34	29. 35	11. 25	·1115					
11. 54	32. 10	11. 40	·1109					
12. 3	31. 30	11. 58	·1105					
12. 23	32. 30	12. 15	·1112					
12. 42	31. 30	12. 32	·1109					
13. 13	31. 30	13. 0	·1114					
13. 56	30. 0		***					
14. 29	37. 0	14. 10	·1112					
14. 52	37. 45	14. 30	·1102					
15. 52	32. 30	15. 10	·1118					
16. 24	31. 40		***					
16. 58	32. 30	17. 10	·1124					
17. 14	32. 30	17. 30	·1130					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 14		Apr. 14						
h m	° ′ ″	h m		h m		h m	°	°
17. 44	21. 33. 55	17. 45	·1128					
18. 7	33. 0	17. 53	·1120					
19. 14	41. 35	18. 30	·1120					
19. 26	41. 10	18. 57	·1109					
19. 39	41. 30	19. 26	·1109					
19. 51	40. 25	19. 45	·1114					
20. 0	40. 30	20. 10	·1114					
21. 5	35. 20	20. 30	·1106					
21. 30	35. 30	21. 40	·1102					
22. 13	37. 25	22. 16	·1089					
22. 40	36. 30	23. 44	·1105					
23. 12	37. 40	23. 59	·1102					
23. 15	37. 20							
23. 59	39. 30							
Apr. 15		Apr. 15		Apr. 15		Apr. 15		
0. 0	21. 39. 30	0. 0	·1102	0. 0	·02417	1. 0	57 ·0	57 ·0
0. 50	40. 50		***	2. 33	·02026	3. 0	60 ·0	60 ·0
2. 40	38. 20	3. 30	·1103	3. 43	·02050	9. 0	64 ·3	63 ·5
3. 15	36. 45	4. 30	·1109		·02165	21. 0	58 ·0	58 ·8
3. 44	34. 35	5. 15	·1104	5. 22	·02156			
5. 40	30. 30	6. 9	·1106	9. 10	·02147			
6. 21	29. 45		***	11. 28	·02207			
7. 8	30. 0	7. 15	·1129	14. 18	·02404			
7. 30	28. 45	8. 0	·1122	15. 45	·02404			
7. 59	29. 20	8. 25	·1127	16. 14	·02417			
8. 16	30. 50		***	16. 41	·02406			
9. 7	26. 50	9. 30	·1123	18. 51	·02470			
9. 52	30. 0	11. 55	·1129	21. 50	·02492			
10. 12	28. 30	12. 25	·1135	22. 30	·02470			
10. 37	29. 0	12. 35	·1130	23. 59	·02306			
11. 18	28. 0	13. 2	·1131					
12. 9	32. 40	13. 40	·1137					
12. 26	31. 45		***					
13. 0	33. 50	14. 46	·1139					
13. 8	33. 20	14. 59	·1135					
13. 12	33. 55	15. 20	·1139					
13. 20	33. 0	15. 35	·1136					
13. 28	33. 20	15. 50	·1128					
13. 50	31. 50	16. 3	·1128					
14. 22	34. 30	16. 25	·1137					
14. 45	33. 30	17. 0	·1146					
15. 0	33. 40	17. 15	·1140					
15. 15	32. 30		***					
15. 31	33. 0	18. 43	·1132					
15. 46	31. 0	19. 0	·1136					
16. 10	34. 30	19. 20	·1128					
16. 56	27. 30		***					
17. 30	30. 0	22. 25	·1115					
17. 57	29. 20	23. 2	·1121					
18. 28	30. 30	23. 59	·1108					
18. 40	28. 10							
18. 45	30. 0							
19. 10	29. 30							
19. 21	28. 0							
19. 41	27. 30							
19. 53	28. 30							
	***							

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr.15								
h m	° ′ ″	h m		h m		h m	°	°
21. 3	21. 28. 0							
21. 44	32. 0							
22. 17	33. 0							
23. 7	37. 25 (†)							
Apr.16		Apr.16		Apr.16		Apr.16		
	(†)	0. 0	·1108	0. 0	·02306	1. 0	63 ·0	64 ·7
0. 39	21. 42. 0	0. 30	·1102	1. 0:	·02281	3. 0	67 ·0	68 ·0
0. 50	41. 30	2. 41	·1124	1. 47	·02079	9. 0	69 ·0	70 ·5
1. 24	42. 30	2. 52	·1116	2. 20	·02080	21. 0	57 ·6	59 ·5
2. 15	42. 20	3. 15	·1124	5. 0	·01990			
3. 10	40. 10	3. 50	·1120	6. 45	·01960			
3. 22	40. 30	4. 11	·1121	10. 0	·02048			
4. 23	37. 0	4. 27	·1134	10. 50	·02050			
4. 38	37. 10	4. 45	·1125	13. 7	·02410			
6. 28	31. 20	5. 30	·1128	20. 0	·02284			
7. 45	30. 50		***	21. 45	·02200			
8. 20	31. 45	7. 52	·1125	23. 59	·02115			
9. 10	28. 40	8. 15	·1130					
9. 31	30. 45	8. 38	·1127					
9. 58	26. 30	9. 15	·1132					
10. 22	34. 5	9. 42	·1126					
10. 57	26. 0	9. 55	·1146					
13. 57	32. 15	10. 11	·1146					
15. 35	30. 20	10. 40	·1132					
16. 13	30. 30	10. 57	·1138					
16. 48	31. 30	11. 30	·1135					
18. 0	28. 50		***					
18. 22	30. 0	17. 30	·1101					
19. 13	27. 30		***					
19. 52	28. 20	20. 45:	·1135					
20. 10	27. 30	23. 0	·1116					
22. 12	32. 15	23. 30	·1114					
23. 15	36. 50	23. 59	·1121					
23. 28	37. 0							
23. 59	39. 30							
Apr.17		Apr.17		Apr.17		Apr.17		
0. 0	21. 39. 30	0. 0	·1121	0. 0	·02115	1. 0	59 ·4	60 ·0
1. 6	42. 25		***	1. 19	·02040	3. 0	61 ·0	62 ·7
1. 52	41. 0	3. 55	·1133	2. 5	·02000	9. 0	60 ·5	61 ·5
2. 44	41. 5	4. 15	·1126	3. 50	·01809	22. 15	54 ·0	54 ·5
	***	5. 15	·1137	4. 10	·01810			
4. 28	37. 20	6. 0	·1128	6. 0:	·01718			
4. 38	37. 25	6. 35	·1131	9. 8:	·01760			
6. 12	33. 30		***	14. 10	{·02187			
6. 40	33. 15	9. 30	·1132		{·02126			
10. 0	32. 15		***	19. 0:	·02190			
11. 8	31. 20	13. 30	·1145	23. 59	·02007			
	***		***					
13. 38	32. 30	15. 52	·1144					
	***	19. 45:	·1146					
16. 30	33. 30	21. 30	·1129					
18. 30	32. 35	22. 0	·1129					
19. 43	28. 50	22. 10	·1124					
20. 27	29. 30	23. 28	·1130					
20. 43	29. 10	23. 59	·1124					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr.17								
h m	° ′ ″	h m		h m		h m	°	°
22. 26	21. 37. 0							
22. 50	36. 0							
23. 28	37. 30							
23. 59	37. 30							
Apr.18		Apr.18		Apr.18		Apr.18		
0. 0	21. 37. 30	0. 0	·1124	0. 0	·02007	8. 0	62 ·0	62 ·0
1. 26	38. 30		***	2. 30:	·01910	21. 0	51 ·0	52 ·8
3. 7	35. 20	1. 0	·1134	3. 55	·01704			
4. 30	33. 10	1. 25	·1136	9. 30	·01748			
6. 30	32. 10	2. 10	·1130	14. 40	·02257			
7. 15	32. 40	3. 30	·1131	19. 0	·02176			
9. 22	32. 30	5. 15	·1127	23. 59	·01940			
	***	5. 33	·1124					
16. 43	31. 10	7. 20	·1126					
	***	7. 45	·1124					
17. 11	32. 20	9. 16	·1127					
	***	9. 35	·1125					
19. 13	28. 50		***					
20. 36	27. 30	10. 56	·1129					
21. 25	28. 30		***					
22. 26	31. 25	17. 0	·1132					
23. 59	37. 30	18. 0	·1136					
		20. 0:	·1131					
		21. 45	·1117					
		22. 30	·1112					
		23. 10	·1120					
		23. 59	·1117					
Apr.19		Apr.19		Apr.19		Apr.19		
0. 0	21. 37. 30	0. 0	·1117	0. 0	·01940	1. 6	57 ·5	57 ·7
1. 8	39. 30	0. 45	·1117	1. 37	·01718	3. 0	61 ·8	62 ·3
4. 12	33. 0		***	2. 55	{·01830	9. 0	61 ·9	62 ·7
4. 22	33. 10	2. 0	·1108		{·01922	21. 0	53 ·0	54 ·3
4. 38	32. 25		***	4. 0	·01826			
	***	4. 0	·1105	6. 25:	·01810			
6. 40	30. 0	4. 22	·1125	12. 37	·02330			
7. 40	32. 30		***	20. 45:	·02200			
10. 8	30. 50	5. 45:	·1119	23. 55	·02002			
10. 28	39. 10	7. 25	·1128					
11. 16	30. 30	8. 15	·1128					
11. 30	28. 30	8. 25	·1125					
12. 44	31. 20	10. 0	·1136					
13. 15	32. 0	10. 25	·1134					
13. 34	31. 20	12. 10	·1136					
14. 12	32. 25		***					
14. 30	31. 30	14. 40	·1144					
14. 44	32. 0	16. 0	·1146					
15. 29	31. 10		***					
18. 22	31. 15	17. 20	·1146					
20. 30	28. 45	18. 55:	·1151					
23. 20	38. 30	21. 24	·1132					
23. 59	40. 10	23. 50	·1131					
Apr.20		Apr.20		Apr.20		Apr.20		
0. 0	21. 40. 10	0. 0	·1128	0. 0	·01970	1. 0	58 ·0	59 ·0
0. 50	41. 10	0. 20	·1130	2. 5	·01750	3. 0	62 ·0	63 ·0
1. 14	40. 20	1. 0	·1120	3. 45	·01852	9. 0	66 ·0	67 ·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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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		
1. 47	21. 40. 30	1. 15	·1136	5. 20	·01960	21. 0	55 ·0	56 ·2
2. 0	39. 30		***	9. 0	·02018			
2. 17	40. 5	1. 50	·1129	11. 8	·02157			
	***	2. 10	·1136	13. 7	·02370			
3. 15	37. 0	2. 25	·1136	14. 0	·02230			
3. 29	37. 40	2. 44	·1126	21. 55	·02180			
3. 39	37. 0	2. 45	·1130	23. 59	·02018			
3. 47	37. 30	3. 0	·1130					
4. 0	36. 45	3. 7	·1126					
5. 10	35. 30	3. 28	·1139					
5. 25	34. 30		***					
6. 2	34. 40	3. 35	·1135					
6. 43	33. 20	3. 46	·1147					
6. 56	33. 30	4. 0	·1138					
7. 15	31. 55	4. 5	·1144					
7. 41	26. 0		***					
8. 10	24. 0	4. 30	·1136					
8. 26	25. 40	4. 45	·1137					
8. 54	32. 20	5. 4	·1146					
10. 27	29. 0		***					
10. 40	30. 40	5. 25	·1139					
11. 0	26. 30	5. 40	·1142					
11. 22	26. 30		***					
11. 42	25. 0	6. 25	·1136					
12. 30	26. 25		***					
13. 15	41. 10	7. 43	·1142					
14. 12	29. 0	8. 16	·1134					
14. 57	31. 40	8. 31	·1140					
15. 14	31. 20	8. 45	·1129					
15. 52	27. 30	8. 58	·1142					
16. 26	27. 30		***					
16. 37	28. 25	10. 30	·1142					
	***	10. 42	·1149					
17. 22	27. 0	11. 3	·1154					
	***	11. 45	·1140					
17. 36	27. 50	12. 6	·1141					
	***	12. 30	·1134					
18. 30	26. 10	12. 45	·1138					
19. 10	29. 10	13. 0	·1147					
19. 36	27. 30	13. 40	·1148					
	***	14. 0	·1146					
20. 10	27. 0		***					
20. 12	29. 15	14. 55	·1158					
21. 14	30. 0		***					
	***	16. 54	·1164					
22. 15	34. 50	17. 25	·1161					
22. 45	37. 55		***					
22. 54	37. 50	18. 55	·1168					
23. 22	40. 20	19. 14	·1161					
23. 59	42. 30		***					
		20. 24	·1158					
			***					
		21. 40	·1140					
		22. 25	·1130					
		22. 40	·1135					
		23. 0	·1126					
		23. 20	·1132					
		23. 59	·1129					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 21	° ′ ″	Apr. 21		Apr. 21		Apr. 21	°	°
h m		h m		h m		h m		
0. 7	21. 41. 45	0. 0	·1129	0. 0	·02018	1. 0	59 ·0	60 ·7
0. 56	44. 30	1. 40	·1125	1. 39	·01744	3. 0	62 ·6	65 ·2
1. 4	43. 30	1. 50	·1108	2. 55	·01843	9. 0	67 ·4	68 ·5
1. 30	45. 50	2. 8	·1118		·02120	21. 0	58 ·7	59 ·2
1. 51	42. 0	2. 30	·1122	4. 17	·01940			
2. 20	43. 20		***	5. 30	·02019			
3. 30	38. 30	3. 30	·1122	6. 23	·02007			
4. 28	37. 20	3. 45	·1131	7. 0	·02020			
4. 40	36. 0	4. 30	·1133	7. 41	·02075			
5. 14	33. 35	4. 55	·1127	10. 11	·02206			
6. 28	31. 20		***	11. 42	·02322			
8. 22	30. 55	5. 14	·1126	12. 45	·02223			
8. 54	33. 0	7. 15	·1144	13. 12	·02237			
9. 2	32. 10	7. 24	·1138	13. 41	·02160			
9. 10	32. 50	8. 16	·1138	13. 55	·02156			
9. 23	31. 15	8. 30	·1144	14. 0	·02127			
9. 40	31. 0	9. 15	·1140	14. 30	·02220			
10. 12	26. 20	9. 55	·1155	15. 32	·02296			
10. 24	26. 20	10. 5	·1142	17. 40	·02327			
10. 52	22. 35	10. 53	·1124	23. 59	·02029			
10. 57	23. 30	11. 2	·1124					
11. 10	22. 30	11. 59	·1152					
11. 20	20. 20	12. 30	·1121					
11. 33	26. 20	13. 0	·1125					
12. 41	17. 0	13. 30	·1098					
13. 12	24. 55	13. 43	·1106					
13. 22	22. 30	13. 50	·1094					
14. 8	31. 30	14. 14	·1132					
14. 25	23. 0	14. 45	·1155					
14. 47	21. 5	15. 6	·1140					
14. 54	22. 30	15. 17	·1144					
15. 7	22. 0	15. 27	·1138					
15. 48	30. 30	15. 40	·1138					
	***	16. 9	·1143					
17. 8	30. 15	17. 15	·1148					
	***		***					
19. 12	31. 0	18. 55	·1145					
19. 54	29. 15		***					
20. 12	30. 10	21. 50	·1126					
20. 22	29. 30	22. 5	·1135					
20. 38	29. 20		***					
20. 48	30. 45	23. 55	·1140					
20. 52	30. 30							
21. 8	32. 5							
21. 45	32. 30							
22. 22	33. 5							
22. 45	35. 10							
23. 18	36. 30							
23. 59	38. 30							
Apr. 22		Apr. 22		Apr. 22		Apr. 22		
0. 0	21. 38. 30	0. 0	·1140	0. 0	·02029	1. 0	64 ·0	65 ·2
1. 0	40. 20	0. 45	·1138	1. 15	·01794	3. 0	67 ·0	68 ·0
3. 10	34. 30	2. 0	·1133	1. 52	·01827	9. 0	66 ·0	66 ·5
3. 56	33. 40	2. 42	·1142	3. 51	·01846	21. 0	56 ·0	57 ·7
5. 12	32. 0	3. 15	·1138	5. 12	·01890			
5. 58	33. 0	3. 55	·1148	5. 55	·01890			
6. 51	31. 50	4. 16	·1140	6. 54	·01953			
			***					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr.22		Apr.22		Apr.22				
h m	° ′ ″	h m		h m		h m	°	°
8. 12	21. 32. 45	4. 45	·1146	8. 0	·02074			
10. 0	31. 50		***	11. 11	·02447			
	***	5. 15	·1140	15. 14	·02333			
14. 30	30. 30	5. 25	·1147	20. 30	·02255			
14. 55	31. 40		***	23. 59	·02022			
15. 27	30. 0	6. 44	·1148					
16. 45	30. 20		***					
17. 0	29. 15	7. 48	·1158					
17. 43	29. 35	8. 7	·1153					
18. 32	28. 50	8. 24	·1158					
19. 30	28. 10		***					
19. 44	27. 15	10. 55	·1167					
19. 43	27. 45	11. 50	·1166					
20. 0	26. 0	12. 30	·1170					
20. 14	28. 0		***					
20. 47	28. 15	13. 54	·1169					
21. 40	30. 10	14. 14	·1175					
23. 34	40. 10		***					
23. 48	39. 40	16. 55	·1172					
23. 59	41. 0	17. 55	·1184					
		18. 10	·1177					
			***					
		18. 54	·1180					
		21. 9	·1170					
			***					
		22. 15	·1154					
			***					
		23. 59	·1154					
Apr.23		Apr.23		Apr.23		Apr.23		
0. 0	21. 41. 0	0. 0	·1154	0. 0	·02022	1. 0	61 ·2	63 ·2
0. 13	40. 30	0. 25	·1165	2. 0	·01713	3. 0	63 ·5	65 ·0
0. 30	42. 0	0. 50	·1155	3. 4	·01764	9. 0	63 ·7	64 ·8
0. 44	41. 30		***		·01960	21. 0	56 ·0	56 ·8
0. 58	41. 50	2. 14	·1154	4. 15	·01864			
1. 30	43. 35	2. 30	·1164	6. 24	·01925			
2. 10	41. 30	2. 50	·1157	9. 15	·02034			
2. 15	41. 50	3. 15	·1164	12. 18	·02356			
2. 28	41. 10	3. 45	·1158	19. 10	·02230			
2. 33	42. 0	4. 7	·1168	22. 40	·01992			
2. 44	40. 30		***	23. 59	·01866			
2. 50	40. 45	5. 7	·1163					
3. 7	39. 30	5. 25	·1170					
4. 28	38. 40		***					
5. 57	32. 30	6. 55	·1163					
7. 39	32. 30	7. 20	·1171					
8. 42	33. 30		***					
	***	9. 3	·1173					
15. 26	30. 20	9. 50	·1177					
16. 12	30. 50		***					
16. 52	29. 20	11. 55	·1173					
	***		***					
19. 2	28. 30	14. 24	·1178					
19. 8	32. 40		***					
19. 17	29. 0	15. 55:	·1183					
19. 49	29. 10	17. 25	·1189					
20. 54	30. 50	18. 10	·1182					
21. 15	33. 0	18. 53	·1188					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr.23		Apr.23						
h m	° ′ ″	h m		h m		h m	°	°
21. 30	21. 34. 0	19. 7	·1184					
21. 57	40. 0	19. 28	·1186					
22. 10	40. 15	19. 40	·1202					
	(†)	20. 25	·1202					
			***					
		23. 30:	·1175					
		23. 45	·1177					
Apr.24		Apr.24		Apr.24		Apr.24		
0. 0	21. 40. 30	0. 0	·1180	0. 0	·01866	1. 0	60 ·6	61 ·2
1. 42	38. 10	1. 0	·1180	2. 13	·01665	3. 0	63 ·0	64 ·0
2. 29	36. 0		***	3. 25	·01746	9. 0	64 ·5	66 ·0
4. 12	33. 0	2. 0	·1175	7. 49	·01828	22. 20	57 ·0	58 ·4
4. 22	33. 20		***	10. 29:	·02013			
4. 55	32. 25	4. 0	·1182	13. 15	·02396			
5. 10	32. 35	4. 22	·1191	19. 40	·02287			
7. 9	30. 30		***	23. 59	·02136			
7. 58	31. 40	5. 25	·1174					
8. 50	29. 10	5. 40	·1180					
9. 59	32. 30	5. 50	·1175					
12. 2	32. 40		***					
16. 22	30. 50	7. 40	·1188					
18. 21	28. 5	7. 45	·1185					
19. 54	27. 10	8. 35	·1184					
20. 40	28. 0	9. 30	·1188					
23. 40	36. 40	13. 24	·1196					
23. 59	37. 0	18. 15	·1193					
		21. 0	·1182					
		23. 59	·1176					
Apr.25		Apr.25		Apr.25		Apr.25		
0. 0	21. 37. 0	0. 0	·1176	0. 0	·02136	6. 54	60 ·7	61 ·6
1. 31	38. 50	1. 0	·1179	1. 24	·02112	21. 0	53 ·6	56 ·2
3. 0	37. 20	1. 15	·1176	3. 54	·02023			
5. 14	32. 5	3. 15	·1187	8. 39:	·01800			
6. 21	31. 10	6. 45	·1192	13. 15	·02062			
7. 45	31. 45		***		·02017			
8. 15	32. 45	11. 8	·1196	19. 25	·02007			
10. 23	33. 30		***	23. 59	·01847			
	(†)	13. 6	·1194					
14. 27	32. 45	17. 45:	·1196					
16. 52	32. 15	18. 55	·1192					
17. 40	31. 0	19. 15	·1193					
	***	20. 10	·1185					
19. 41	31. 25	22. 25	·1175					
19. 51	32. 20	23. 59	·1176					
20. 11	32. 5							
21. 45	35. 35							
22. 50	40. 20							
23. 42	42. 30							
23. 59	42. 0							
Apr.26		Apr.26		Apr.26		Apr.26		
0. 0	21. 42. 0	0. 0	·1176	0. 0	·01847	1. 0	55 ·4	56 ·7
1. 40	40. 30	1. 0	·1170	2. 44	·01622	3. 0	58 ·5	60 ·0
2. 41	37. 40	1. 46	·1173	3. 45	·01697	9. 0	62 ·0	63 ·0
6. 10	31. 50	4. 35	·1166	5. 54	·01724	21. 0	52 ·3	55 ·0
7. 0	31. 50		***	6. 22	·01688			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 26		Apr. 26		Apr. 26		h m	°	°
h m	° ′ ″	h m		h m				
7. 45	21. 32. 35	7. 0	·1174	10. 0:	·01740			
8. 46	32. 10	7. 40	·1170	15. 0	·02307			
9. 11	33. 10	9. 11	·1173	19. 40	·02230			
	***		***	23. 59	·02130			
11. 40	33. 30	11. 15	·1167					
12. 15	33. 0	12. 0	·1172					
12. 39	34. 35	12. 35	·1170					
13. 9	33. 30	13. 0	·1172					
13. 32	34. 30		***					
17. 30	31. 50	19. 7	·1171					
19. 9	29. 0	20. 40	·1152					
19. 28	28. 45	21. 31	·1148					
19. 40	27. 35	21. 52	·1151					
19. 52	28. 55	22. 9	·1143					
20. 4	28. 35	22. 27	·1149					
20. 27	30. 0	22. 40	·1142					
20. 41	30. 10	22. 46	·1143					
20. 52	32. 30	23. 10	·1129					
21. 30	33. 20	23. 40	·1134					
21. 51	35. 0	23. 59	·1135					
22. 12	33. 50							
22. 29	36. 0							
22. 39	36. 5							
23. 59	42. 30							
Apr. 27		Apr. 27		Apr. 27		Apr. 27		
0. 0	21. 42. 30	0. 0	·1135	0. 0	·02130	1. 0	54 ·2	55 ·4
0. 36	45. 10	0. 20	·1130	3. 0	·02060	3. 0	56 ·0	56 ·8
1. 25	44. 30	0. 50	·1123	10. 0:	·01800	9. 0	57 ·0	58 ·5
1. 59	42. 50	1. 40	·1142	15. 40	·02019	21. 0	53 ·8	55 ·8
2. 2	43. 15	1. 55	·1142	15. 49	·01994			
2. 24	41. 50	2. 8	·1149	19. 15:	·02040			
3. 44	38. 10	2. 25	·1146	23. 59	·01968			
3. 52	38. 25	3. 7	·1152					
4. 52	36. 20	3. 30	·1152					
5. 0	35. 0	4. 16	·1158					
5. 45	33. 30	4. 30	·1151					
6. 0	33. 20	4. 54	·1155					
6. 21	34. 10	4. 59	·1144					
6. 43	33. 20		***					
10. 21	33. 0	5. 40	·1156					
13. 40	34. 0		***					
14. 6	33. 30	6. 0	·1154					
15. 43	33. 45	6. 13	·1159					
15. 56	34. 10	6. 27	·1152					
17. 26	34. 5	7. 25	·1161					
17. 41	32. 30		***					
17. 54	33. 0	9. 43	·1159					
18. 6	32. 50		***					
18. 13	31. 45	12. 10	·1161					
18. 39	32. 40	12. 16	·1156					
18. 45	31. 10	13. 30	·1162					
19. 2	32. 0		***					
19. 22	31. 10	14. 57	·1158					
19. 30	29. 50		***					
19. 39	31. 0	18. 20:	·1161					
19. 45	28. 30		***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 27		Apr. 27		h m		h m	°	°
h m	° ′ ″	h m						
19. 53	21. 31. 30	21. 43	·1138					
20. 11	28. 30		***					
20. 19	29. 50	23. 59	·1124					
20. 25	29. 0							
20. 30	30. 0							
21. 0	31. 5							
21. 17	30. 0							
	***							
21. 45	31. 0							
21. 52	30. 20							
22. 30	30. 55							
	***							
23. 59	37. 45							
Apr. 28		Apr. 28		Apr. 28		Apr. 28		
0. 0	21. 37. 45	0. 0	·1124	0. 0	·01968	1. 0	58 ·4	59 ·0
0. 24	42. 35	0. 17	·1124	2. 30	·01695	3. 0	62 ·3	62 ·5
0. 39	40. 0	0. 31	·1133	4. 7	·01780	9. 0	64 ·7	64 ·3
0. 57	42. 10	0. 45	·1128		***	21. 0	54 ·0	56 ·0
1. 14	41. 45	1. 6	·1113	7. 45:	·01780			
1. 27	43. 30	1. 15	·1118	14. 5	·02368			
1. 51	41. 15	1. 27	·1143	19. 40	·02280			
2. 3	42. 20	1. 55	·1143	23. 59	·02173			
2. 20	40. 0	2. 0	·1154					
3. 0	38. 15	2. 28	·1103					
3. 39	40. 20	2. 53	·1123					
3. 51	41. 50	3. 10	·1129					
4. 13	40. 20	3. 17	·1138					
4. 27	41. 0	3. 33	·1135					
4. 49	36. 50	3. 45	·1144					
5. 12	34. 25	4. 12	·1125					
5. 38	36. 55	4. 25	·1140					
5. 58	35. 0	4. 45	·1119					
6. 21	34. 55	5. 8	·1123					
6. 40	33. 20	5. 22	·1130					
7. 20	33. 30	5. 52	·1120					
7. 33	33. 0	6. 13	·1127					
7. 43	33. 30	6. 30	·1119					
8. 0	32. 0	7. 20	·1130					
	***	7. 37	·1126					
9. 40	33. 45		***					
	***	8. 55	·1130					
10. 22	33. 0	9. 25	·1135					
	***	9. 52	·1130					
11. 0	34. 25	10. 55	·1132					
	***		***					
12. 4	33. 35	11. 40	·1138					
13. 45	34. 30	12. 2	·1134					
14. 29	33. 30		***					
	***	14. 12	·1144					
15. 10	33. 30	14. 36	·1142					
15. 24	32. 35	15. 14	·1146					
15. 43	33. 25		***					
	***	16. 30	·1143					
16. 40	31. 45		***					
	***	17. 20	·1148					
18. 52	30. 50	18. 40	·1146					
19. 8	29. 0	19. 15	·1150					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
19. 16	21. 31. 30	20. 15	·1147					
20. 9	30. 25	20. 47	·1138					
20. 21	32. 20	21. 8	·1139					
20. 49	32. 0	21. 45	·1132					
21. 28	33. 25	22. 10	·1121					
21. 43	32. 40	22. 30	·1124					
21. 52	34. 5	22. 45	·1120					
22. 9	33. 35		***					
23. 43	40. 10	23. 55	·1126					
23. 56	40. 0							
Apr.29		Apr.29		Apr.29		Apr.29		
0. 0	21. 40. 5	0. 0	·1126	0. 0	·02176	1. 0	57 ·2	57 ·7
0. 57	41. 0	1. 19	·1124	2. 7	·02092	3. 0	60 ·0	60 ·0
1. 19	39. 30	1. 30	·1130	5. 0	·01640	9. 0	61 ·0	61 ·7
1. 32	40. 25		***	5. 52	·01664	21. 0	54 ·7	56 ·0
3. 26	36. 50	2. 15	·1128	8. 28:	·01637			
6. 0	33. 0	3. 30	·1131	10. 40	·01757			
6. 26	33. 40	3. 54	·1127	15. 52	·02283			
6. 30	33. 0	4. 44	·1130	16. 44	·02255			
	(†)	5. 0	·1126	16. 52	·02186			
7. 58	33. 10	5. 17	·1132	17. 20	·02207			
9. 12	33. 50	5. 41	·1125	18. 28	·02195			
10. 41	33. 20	5. 50	·1128	19. 29	·02207			
	***	6. 15	·1123	23. 59	·02196			
14. 11	34. 10	7. 0	·1129					
14. 45	33. 30		***					
	***	9. 35	·1133					
16. 13	33. 30	10. 30	·1138					
	***		***					
19. 22	30. 35	11. 55	·1134					
19. 34	30. 0		***					
19. 49	29. 55	13. 6	·1140					
20. 12	30. 50		***					
20. 21	30. 40	16. 17	·1146					
21. 54	33. 30	18. 0	·1144					
23. 59	40. 25	19. 30	·1136					
		20. 10	·1136					
		20. 45	·1132					
		22. 15	·1118					
		23. 0	·1120					
		23. 59	·1127					
Apr.30		Apr.30		Apr.30		Apr.30		
0. 0	21. 40. 25	0. 0	·1127	0. 0	·02196	1. 0	57 ·5	56 ·7
0. 12	40. 0	0. 30	·1126	1. 0	·02183	3. 0	59 ·5	58 ·5
0. 26	40. 30	3. 0	·1143		·02163	9. 0	57 ·0	57 ·4
0. 51	39. 0	3. 25	·1140	3. 30	·01937	21. 0	50 ·0	49 ·6
3. 22	34. 0	4. 20	·1144	7. 30:	·01807			
5. 30	32. 25	5. 15	·1142	12. 30	·02217			
6. 12	32. 0	6. 15	·1144	16. 18	·02176			
7. 43	33. 30	6. 40	·1147	16. 26	·02133			
8. 0	33. 0	7. 0	·1142	16. 45	·02150			
9. 58	33. 30	7. 25	·1148	19. 22	·02128			
10. 39	33. 0	7. 40	·1146	20. 40	·02063			
	***	8. 5	·1148	21. 59	·02033			
15. 43	33. 35	9. 4	·1146	23. 59	·01937			
	***	10. 45	·1151					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr.30		Apr.30						
h m	° ′ ″	h m		h m		h m	°	°
18. 55	21. 30. 30	17. 42	·1170					
19. 38	28. 25	18. 11	·1161					
20. 12	29. 30		***					
20. 25	29. 0	19. 55	·1159					
20. 58	33. 0	21. 0	·1152					
21. 43	32. 30	21. 45	·1152					
22. 11	33. 25	22. 15	·1145					
22. 38	36. 5	23. 10	·1153					
22. 51	35. 30	23. 59	·1156					
23. 7	35. 45							
23. 12	34. 30							
23. 59	36. 0							
May 1		May 1		May 1		May 1		
0. 0	21. 36. 0	0. 0	·1156	0. 0	·01937	1. 0	53 ·5	53 ·4
0. 51	37. 40		***	1. 40	·01807	3. 0	55 ·0	55 ·0
1. 7	37. 20	1. 10	·1153	3. 18	·01563	9. 0	56 ·0	56 ·7
2. 15	36. 10		***		·01596	22. 30	49 ·0	49 ·0
2. 30	36. 25	2. 39	·1160	8. 0	·01587			
3. 45	33. 5	3. 11	·1153	13. 7:	·01586			
4. 29	33. 30		***	19. 18	·02024			
5. 30	31. 0	3. 42	·1164	21. 43	·02175			
6. 19	31. 35	4. 52	·1160	21. 52	·02130			
7. 0	30. 0	5. 27	·1168	23. 59	·02120			
7. 40	27. 30	5. 45	·1164					
8. 10	28. 35	6. 5	·1164					
8. 40	25. 30	6. 24	·1166					
9. 22	30. 30		***					
9. 54	31. 30	7. 25	·1151					
10. 10	31. 0		***					
	***	8. 20	·1154					
11. 22	31. 55	8. 40	·1148					
11. 40	30. 45	9. 10	·1155					
11. 54	31. 45	10. 30	·1156					
15. 52	31. 50	11. 8	·1161					
17. 46	30. 0	11. 25	·1158					
18. 4	28. 30	11. 40	·1162					
18. 15	29. 0	13. 0	·1148					
19. 10	27. 30	14. 35	·1157					
20. 40	26. 35	16. 13	·1161					
23. 59	35. 0	19. 0	·1159					
		21. 25	·1145					
		22. 50	·1140					
		23. 59	·1140					
May 2		May 2		May 2		May 2		
0. 0	21. 35. 0	0. 0	·1140	0. 0	·02120	7. 38	52 ·3	54 ·2
0. 54	36. 50	1. 30	·1146	4. 7	·02056	21. 0	49 ·2	51 ·0
2. 17	37. 30	2. 17	·1154	10. 43:	·01807			
4. 30	33. 40	3. 9	·1152	15. 25	·02007			
7. 0	31. 10	4. 25	·1154	15. 36	·01979			
9. 29	30. 55	4. 50	·1162	16. 59	·02028			
	***		***	21. 12	·02007			
10. 39	31. 0	5. 45	·1166	23. 46	·01840			
	***	6. 0	·1163					
11. 32	32. 0	6. 30	·1166					
	***	9. 30	·1158					
17. 12	31. 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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 2		May 2						
h m	° ′ ″	h m		h m		h m	°	°
20. 47	21. 27. 15	18. 30:	·1162					
22. 30	30. 30	21. 17	·1148					
			***					
23. 12	32. 20							
23. 39	33. 40	22. 30	·1142					
23. 59	34. 10	22. 50	·1150					
			***					
		23. 58	·1146					
May 3		May 3		May 3		May 3		
0. 0	21. 34. 10	0. 0	·1146	0. 15	·01838	1. 0	54 ·2	54 ·5
0. 13	34. 30	0. 20	·1148	1. 10	·01784	3. 0	57 ·5	57 ·6
2. 40	35. 55	0. 35	·1146	2. 15	·01610	9. 0	62 ·0	62 ·5
			***					
3. 40	33. 50			5. 12:	·01730	21. 0	51 ·5	53 ·2
5. 33	31. 20	2. 41	·1146	7. 55	·01720			
			***					
6. 13	30. 0			11. 40:	·01850			
6. 56	30. 0	3. 35	·1137	15. 26	·02343			
			***					
7. 11	30. 50			22. 10	·02230			
7. 29	30. 20	5. 0	·1135	23. 59	·02180			
7. 53	29. 0	5. 30	·1136					
8. 42	29. 55	6. 0	·1142					
	***							
		6. 35	·1137					
9. 48	30. 0	6. 45	·1137					
	***							
		7. 25	·1135					
10. 0	28. 35	7. 43	·1128					
	***							
		8. 16	·1125					
12. 30	31. 25	8. 50	·1128					
12. 53	30. 30	9. 0	·1126					
	***		***					
14. 17	31. 45	12. 45	·1142					
	***		***					
15. 42	31. 30	17. 39	·1154					
			***					
16. 49	29. 35							
17. 45	29. 0	19. 32	·1146					
			***					
17. 52	29. 50							
18. 13	28. 30	21. 45	·1142					
19. 30	28. 35	23. 30	·1138					
19. 54	30. 35	23. 59	·1134					
20. 7	29. 55							
20. 22	30. 45							
20. 54	29. 35							
21. 7	30. 15							
21. 30	30. 0							
21. 57	30. 10							
23. 35	35. 30							
23. 59	36. 0							
May 4		May 4		May 4		May 4		
0. 0	21. 36. 0	0. 0	·1134	0. 0	·02180	1. 0	55 ·0	56 ·0
			***					
1. 0	37. 30			1. 0	·02137	3. 0	57 ·2	57 ·8
3. 12	35. 0	1. 47	·1132	5. 42	·01607	9. 0	57 ·7	58 ·5
3. 50	34. 30	3. 5	·1138	9. 44	·01596	21. 0	50 ·7	52 ·2
4. 28	33. 45	3. 35	·1136	13. 3:	·01762			
5. 0	33. 40	4. 22	·1142	16. 45	·02270			
5. 22	33. 5	5. 45	·1147	18. 43	·02230			
			***		·02170			
6. 44	32. 10							
7. 22	32. 55	9. 16	·1149	19. 14	·02188			
8. 21	32. 30	9. 40	·1143	23. 59	·02080			
9. 30	33. 30	9. 55	·1150					
			***					

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May 4		May 4						
h m	° ′ ″	h m		h m		h m	°	°
9. 52	21. 31. 0	11. 0	·1146					
	***	13. 15	·1148					
15. 51	31. 45	15. 30	·1153					
	***	18. 0:	·1158					
18. 39	28. 45	22. 10	·1131					
19. 26	28. 20	23. 59	·1137					
19. 52	28. 30							
20. 41	27. 55							
22. 25	31. 50							
23. 43	36. 30							
23. 59	36. 30							
May 5		May 5		May 5		May 5		
0. 0	21. 36. 30	0. 0	·1137	0. 0	·02080	1. 0	54 ·7	55 ·0
0. 59	36. 55	1. 8	·1135	1. 15	·02008	3. 0	58 ·7	59 ·5
4. 22	31. 40	1. 50	·1139	3. 12	·01688	9. 0	61 ·8	63 ·0
5. 21	30. 45	3. 0	·1129	4. 36	·01737	21. 0	55 ·3	55 ·4
			***					
9. 36	31. 50			7. 26	·01693			
10. 4	30. 45	6. 10	·1137	11. 19	·01706			
10. 50	31. 30	8. 0	·1134	14. 22:	·01828			
11. 26	29. 55	8. 54	·1135	18. 34	·02350			
	***	10. 28	·1133	21. 13	·02263			
13. 57	31. 45	11. 0	·1138	23. 59	·02250			
14. 12	30. 50	11. 40	·1134					
	***	14. 50	·1141					
15. 26	33. 30	17. 50	·1147					
	***	18. 20	·1138					
16. 14	32. 30	20. 46	·1126					
	***	21. 0	·1128					
17. 45	28. 40	21. 48	·1122					
18. 0	29. 0	23. 0	·1139					
19. 13	27. 30	23. 59	·1139					
20. 52	29. 20							
21. 58	34. 30							
22. 21	33. 55							
22. 45	34. 0							
23. 13	35. 30							
23. 26	34. 30							
23. 59	36. 0							
May 6		May 6		May 6		May 6		
0. 0	21. 36. 0	0. 0	·1139	0. 0	·02250	1. 0	59 ·7	59 ·2
			***					
0. 22	37. 30			1. 0	·02196	3. 0	62 ·2	62 ·4
0. 44	37. 0	1. 6	·1141	3. 10	·01730	9. 0	60 ·0	62 ·0
			***					
1. 22	37. 30			5. 17	·01717	21. 0	50 ·4	51 ·2
3. 49	33. 15	3. 30	·1152		(†)			
5. 50	32. 30	4. 11	·1153	8. 54	·01860			
	(†)	4. 35	·1147	13. 4	·02360			
8. 54	32. 0	4. 45	·1151	13. 13	·02334			
9. 13	33. 20	5. 30	·1146	20. 30	·02220			
	***		(†)	23. 59	·02065			
11. 6	32. 0	8. 54	·1161					
	***		***					
15. 29	31. 40	11. 25	·1163					
	***	15. 30	·1174					
16. 0	29. 30	16. 15	·1172					
16. 28	30. 45	18. 0	·1176					
	***	19. 25	·1173					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
18. 2	21. 30. 0	21. 24	·1152					
			***					
18. 31	28. 20							
18. 45	28. 45	23. 59	·1168					
18. 54	28. 25							
19. 14	28. 10							
20. 12	29. 5							
22. 11	34. 30							
22. 35	36. 45							
23. 59	37. 40							
May 7		May 7		May 7		May 7		
0. 0	21. 37. 40	0. 0	·1168	0. 0	·02065	1. 0	55 ·3	56 ·3
1. 15	38. 0	1. 15	·1166	1. 22	·01973	3. 0	59 ·4	60 ·0
3. 49	33. 45	3. 43	·1156	3. 12	·01645	9. 0	62 ·2	62 ·5
5. 40	33. 55	4. 24	·1164	4. 0	·01710	21. 0	52 ·2	52 ·2
6. 54	32. 50	5. 20	·1158	5. 37	·01710			
8. 5	34. 0	5. 45	·1164	6. 42	·01676			
8. 22	33. 0	5. 52	·1159	7. 50	·01690			
9. 10	31. 30	6. 25	·1167	9. 21	·01744			
9. 45:	23. 10	6. 57	·1161	9. 44	·01786			
	***	8. 15	·1161	10. 12	·01805			
10. 39	27. 20	8. 45	·1176	11. 46	·01893			
11. 40	28. 10	9. 15	·1169	12. 12	·01884			
12. 6	24. 50	9. 29	·1147	12. 32	·01916			
12. 27	31. 55	10. 0	·1157	12. 45	·01862			
12. 38	30. 10	10. 26	·1146	13. 0	·01937			
12. 52	33. 20	10. 45	·1149	13. 13	·01916			
13. 39	18. 0	10. 57	·1144	14. 56	{ ·02274			
13. 42	20. 20		***		{ ·02248			
14. 11	12. 0	11. 30	·1146	15. 22	·02246			
14. 22	15. 0	12. 0	·1157	16. 13	·02193			
14. 39	12. 20	12. 45	·1095	16. 56	·02224			
15. 13	23. 0	12. 58	·1124	17. 14	·02192			
15. 43	18. 0	13. 15	·1114		***			
15. 54	20. 50	13. 20	·1114	22. 29	·02270			
16. 4	17. 30	13. 45	·1132	23. 59	·02197			
16. 31	20. 10	13. 57	·1129					
16. 49	26. 30	14. 10	·1129					
17. 2	24. 0	14. 20	·1138					
17. 22	27. 0	14. 30	·1136					
17. 51	27. 55	14. 45	·1139					
18. 15	25. 0	15. 0	·1136					
18. 26	27. 0	15. 10	·1137					
18. 44	24. 15	15. 40	·1168					
18. 58	26. 45	15. 54	·1156					
19. 5	26. 0	16. 0	·1160					
19. 18	29. 0	16. 7	·1144					
19. 26	28. 45	16. 25	·1138					
19. 34	26. 10	16. 54	·1146					
19. 45	30. 10	17. 0	·1142					
20. 7	30. 0	17. 20	·1148					
20. 14	32. 0		***					
20. 21	31. 30	18. 20	·1139					
20. 29	33. 0	18. 30	·1144					
20. 43	31. 30	18. 57	·1136					
21. 0	34. 30	19. 10	·1143					
21. 39	36. 30	19. 25	·1150					
21. 51	36. 45	19. 45	·1130					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 7		May 7						
h m	° ′ ″	h m		h m		h m	°	°
22. 27	21. 39. 50	19. 55	·1136					
23. 27	39. 40	19. 59	·1132					
	***	20. 12	·1140					
23. 59	41. 30		***					
		21. 33	·1134					
		21. 50	·1108					
		22. 20	·1104					
		23. 30	·1148					
		23. 59	·1146					
May 8		May 8		May 8		May 8		
0. 0	21. 41. 30		(†)	0. 0	·02197	1. 0	57 ·7	58 ·3
	***	1. 8	·1138	1. 29	·01990	3. 0	60 ·3	60 ·4
0. 47	41. 40		***	2. 40	·01737	9. 0	60 ·8	61 ·0
1. 12	38. 35	2. 15	·1136	3. 42	·01770	22. 0	52 ·2	54 ·0
1. 21	38. 50	3. 54	·1172	4. 43	·01765			
1. 51	36. 50	4. 23	·1161	5. 0	·01807			
1. 59	37. 20	4. 44	·1146	7. 40	·01705			
	***	4. 56	·1177	10. 29	·01759			
2. 58	34. 0	5. 15	·1180	10. 55	·01745			
3. 12	35. 30		***	11. 43	·01752			
3. 44	35. 0	6. 5	·1155	12. 24	·01708			
4. 6	32. 0		***	12. 45	·01788			
4. 15	26. 0	7. 2	·1159	13. 56	·01890			
4. 36	29. 40	7. 26	·1174	14. 22	·01970			
4. 45	29. 20	7. 30	·1167	14. 30	·01967			
5. 0	32. 30	7. 55	·1175	15. 43	·02250			
	***	8. 29	·1147	16. 0	·02184			
5. 18	32. 0	8. 45	·1160	19. 22	·02246			
5. 27	30. 20	9. 25	·1150	19. 51	·02284			
5. 39	32. 0	9. 54	·1158	23. 59	·02250			
6. 20	33. 0		***					
6. 34	29. 45	10. 32	·1159					
6. 53	31. 30	10. 48	·1143					
7. 13	23. 15	10. 58	·1148					
7. 52	30. 45	11. 14	·1134					
8. 6	29. 0	11. 40	·1168					
8. 37	33. 0	11. 52	·1150					
9. 29	32. 55	12. 13	·1136					
10. 8	36. 30	12. 40	·1161					
10. 25	33. 0	12. 51	·1154					
11. 11	42. 0	13. 13	·1153					
11. 45	31. 45	13. 27	·1135					
11. 59	33. 25	13. 45	·1151					
	(†)	14. 18	·1162					
14. 33	27. 50	14. 41	·1156					
14. 44	26. 0	15. 15	·1134					
15. 42	38. 0	15. 42	·1151					
16. 8	31. 0	15. 55	·1148					
16. 58:	28. 0	16. 23	·1161					
17. 48	33. 20	16. 55	·1162					
18. 6	32. 10	17. 25	·1148					
18. 11	33. 0	17. 43	·1156					
18. 21	31. 0	18. 10	·1159					
18. 40	33. 40	18. 30	·1155					
18. 44	33. 0	19. 0	·1139					
18. 50	34. 45	19. 9	·1146					
19. 0	32. 0	19. 30	·1135					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet	Of V.F. Magnet.
May 8		May 8						
h m	° ′ ″	h m		h m		h m	°	°
19. 11	21. 33. 20	19. 45	·1139					
19. 27	29. 0	20. 0	·1136					
19. 56	31. 35	20. 40	·1143					
20. 22	30. 30	21. 30	·1132					
20. 39	32. 10	21. 45	·1134					
21. 8	31. 20	22. 0	·1129					
21. 52	32. 10	22. 25	·1136					
22. 30	34. 10	23. 15	·1124					
22. 58	37. 25	23. 59	·1125					
23. 38	37. 30							
23. 47	37. 0							
23. 59	38. 0							
May 9		May 9		May 9		May 9		
0. 0	21. 38. 0	0. 0	·1125	0. 0	·02250	7. 52	61 ·0	61 ·3
0. 28	37. 0	0. 30	·1125	2. 25	·02007	21. 0	54 ·0	55 ·2
0. 51	38. 50	0. 48	·1132	4. 15	·01715			
1. 10	38. 40	1. 12	·1125	5. 49	·01737			
1. 22	41. 0	1. 30	·1139	7. 12	·01696			
1. 45	38. 30	1. 55	·1125	9. 43	·01707			
2. 9	37. 50	2. 27	·1125	10. 25	·01606			
2. 42	33. 20	3. 5	·1171	10. 57	·01599			
3. 4	34. 0	3. 25	·1151	12. 4	·01710			
3. 17	34. 0	3. 45	·1157	12. 25	·01706			
3. 35	35. 20	4. 8	·1148	15. 40	·02130			
4. 39	32. 30	4. 50	·1158	15. 52	·02138			
4. 51	32. 20	5. 10	·1173	17. 29	{·02340			
5. 0	33. 45		***		{·02298			
5. 26	33. 0	5. 33	·1167	20. 6	·02320			
6. 7	26. 0		***	23. 20	·02296			
6. 56	27. 30	6. 13	·1184	23. 59	·02247			
7. 0	26. 0	6. 30	·1178					
7. 11	27. 25	6. 44	·1188					
7. 22	26. 10	6. 55	·1172					
7. 38	28. 40	7. 3	·1174					
7. 56	28. 10	7. 15	·1166					
8. 13	29. 0	7. 34	·1168					
8. 40	28. 35	7. 59	·1163					
9. 47	30. 0		***					
9. 56	37. 0	9. 2	·1157					
10. 5	37. 0		***					
10. 15	39. 55	9. 27	·1161					
10. 30	31. 0	9. 55	·1190					
10. 39	33. 50	10. 7	·1187					
11. 43	18. 0	10. 21	·1174					
12. 10	33. 0	10. 39	·1184					
13. 13	28. 40	10. 58	·1152					
13. 20	29. 0	11. 8	·1155					
14. 14:	26. 10	11. 22	·1152					
15. 0	28. 0	11. 45	·1159					
15. 42	32. 0	11. 57	·1151					
16. 7	30. 0	12. 42	·1166					
16. 22	32. 15	13. 10	·1154					
16. 40	29. 20	13. 18	·1161					
17. 0	32. 30	13. 35	·1156					
17. 15	31. 0	13. 50	·1165					
17. 22	32. 0	14. 13	·1167					
17. 45	30. 0		***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V.F. Magnet.
May 9		May 9						
h m	° ′ ″	h m		h m		h m	°	°
17. 59	21. 33. 0	14. 42	·1155					
18. 16	29. 35	14. 50	·1159					
18. 40	33. 15	15. 24	·1147					
18. 50	32. 40	15. 41	·1158					
19. 7	33. 45	16. 13	·1165					
19. 20	32. 0	16. 30	·1156					
19. 52	30. 50	16. 50	·1157					
20. 13	31. 50	17. 7	·1152					
20. 44	30. 55	17. 15	·1156					
21. 4	33. 0	17. 57	·1158					
21. 34	33. 0	18. 10	·1146					
	***	18. 17	·1142					
23. 30	37. 25	18. 35	·1156					
23. 59	37. 50	18. 55	·1150					
			***					
		20. 0:	·1155					
			***					
		21. 25	·1135					
			***					
		23. 55	·1136					
May 10		May 10		May 10		May 10		
0. 0	21. 37. 50		(†)	0. 0	·02247	1. 0	57 ·7	58 ·5
0. 15	36. 0	0. 30	·1151	1. 36	·02128	3. 0	61 ·0	61 ·5
0. 50	37. 20	0. 55	·1152	3. 11	·01786	9. 0	64 ·0	65 ·0
1. 34	36. 10	1. 26	·1136		***	21. 0	55 ·7	56 ·6
1. 50	33. 0	1. 41	·1157	7. 14	·01790			
2. 35	33. 45	2. 6	·1155	9. 52	·01817			
2. 44	33. 20	2. 20	·1148	11. 54	·01890			
3. 14	33. 45	3. 0	·1143	13. 40	·02036			
3. 54	33. 40	3. 22	·1148	16. 12	{·02437			
4. 12	35. 0	3. 32	·1145		{·02392			
4. 24	33. 40	3. 58	·1148	22. 18	·02337			
4. 30	34. 5	4. 11	·1159	23. 59	·02336			
4. 44	33. 20	4. 31	·1162					
4. 56	33. 25	4. 46	·1158					
5. 12	32. 40	5. 2	·1161					
5. 21	32. 30	5. 36	·1155					
5. 51	25. 30	5. 50	·1175					
6. 46	31. 0	6. 10	·1180					
7. 51	30. 40	6. 28	·1173					
8. 25	29. 0	6. 57	·1164					
8. 45	29. 55	7. 30	·1168					
9. 7	30. 0	8. 14	·1161					
9. 20	32. 10	8. 30	·1164					
9. 40	32. 20	8. 41	·1161					
10. 10	30. 10	9. 5	·1178					
10. 16	31. 0	9. 15	·1170					
10. 36	30. 50	9. 30	·1178					
10. 51	32. 0	9. 55	·1165					
11. 0	31. 5	10. 15	·1161					
11. 16	31. 30	10. 50	·1168					
12. 7	28. 30	11. 0	·1161					
12. 42	33. 5	11. 15	·1164					
12. 59	33. 40		***					
	***	11. 55	·1155					
14. 52	31. 30	12. 7	·1157					
	***	12. 36	·1150					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 10		May 10						
h m	° ′ ″	h m		h m		h m	°	°
15. 40	21. 29. 10	13. 30	·1161					
16. 10	29. 20	14. 15	·1158					
16. 28	31. 30		***					
17. 12	28. 30	15. 45	·1164					
17. 39	29. 10	16. 15	·1162					
17. 52	31. 30	17. 15	·1166					
18. 15	31. 0	17. 54	·1168					
18. 22	29. 40		***					
18. 42	29. 30	18. 25	·1160					
18. 51	27. 0		***					
19. 14	29. 20	19. 58	·1156					
19. 22	28. 30	21. 55	·1170					
19. 37	29. 45	22. 30	·1164					
20. 0	29. 20	22. 45	·1168					
20. 17	30. 30	22. 55	·1161					
21. 45	30. 40	23. 30	·1160					
22. 17	33. 25	23. 59	·1163					
23. 59	35. 30							
May 11		May 11		May 11		May 11		
0. 0	21. 35. 30	0. 0	·1164	0. 0	·02336	1. 0	58 ·7	59 ·4
0. 32	36. 0	1. 47	·1169	1. 27	·02220	3. 0	61 ·0	62 ·0
1. 50	36. 50	2. 40	·1162	3. 57	·01724	9. 0	64 ·2	65 ·5
2. 28	35. 40	2. 55	·1168	7. 56	·01764	21. 0	54 ·4	55 ·0
2. 57	36. 30	3. 20	·1166	11. 14	·01837			
	***	4. 0	·1166	15. 39	·02437			
			***		·02390			
5. 24	33. 50							
6. 12	32. 55	5. 39	·1160	19. 22	·02385			
7. 4	28. 20	5. 52	·1166	21. 23	·02328			
7. 12	28. 30	6. 0	·1164		(†)			
7. 16	27. 0	6. 28	·1170					
7. 30	30. 0	6. 47	·1170					
8. 12	27. 55	6. 55	·1166					
8. 30	29. 10	7. 25	·1181					
9. 22	30. 25	7. 50	·1167					
9. 50	33. 50	8. 55	·1158					
10. 0	33. 55	10. 12	·1168					
10. 26	26. 30	10. 30	·1188					
10. 50:	32. 35		***					
11. 30	23. 20	11. 25	·1169					
11. 48	22. 30		***					
12. 12	26. 30	12. 7	·1162					
12. 56	26. 20	13. 15	·1164					
14. 5	35. 0	14. 13	·1177					
14. 52	29. 30	14. 30	·1173					
	***		***					
16. 12	28. 20	15. 55	·1176					
16. 33	29. 30	16. 12	·1172					
	***	16. 30	·1174					
17. 30	28. 20	16. 55	·1168					
18. 6	29. 30	18. 10	·1162					
18. 39	27. 30	19. 3	·1166					
19. 17	30. 10	19. 25	·1160					
20. 0	28. 50	20. 16	·1162					
20. 29	29. 0	21. 20	·1156					
20. 53	31. 30	21. 40	·1149					
21. 39	32. 0		***					
	(†)	22. 30	·1168					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	May 11 h m		h m		h m	°	°
		22. 45	·1158					
		23. 50	·1172					
May 12		May 12		May 12		May 12		
	(†)		(†)		(†)	1. 0	54 ·4	56 ·7
0. 30	21. 34. 20	1. 0	·1130*	1. 0	·01754*	3. 0	54 ·7	56 ·5
	***	3. 0	·1144*	3. 0	·02265*	9. 0	55 ·0	58 ·4
2. 4	34. 15	4. 30	·1125	3. 15	·02286	21. 0	52 ·0	52 ·3
	***	5. 35	·1120	4. 41	·02320			
5. 40	28. 30	7. 30	·1123	7. 45	·01997			
6. 13	28. 10	7. 45	·1119	10. 43	·01965			
7. 3	28. 45	8. 52	·1121	13. 0	·02147			
8. 12	28. 15	9. 11	·1131	15. 11	·02456			
8. 30	28. 20	9. 55	·1125	15. 43	·02487			
8. 50	28. 10	10. 30	·1126	18. 26	·02466			
9. 36	23. 40	10. 42	·1122		·02387			
10. 36	24. 10	10. 48	·1123	21. 10	·02390			
10. 44	23. 10	11. 0	·1116		(†)			
10. 53	25. 0	11. 22	·1118					
11. 33	24. 30	12. 10	·1109					
11. 56	28. 30	12. 42	·1120					
12. 22	27. 0	13. 0	·1117					
13. 44	25. 30	14. 15	·1119					
14. 53	27. 20	15. 0	·1125					
15. 30	24. 0	15. 25	·1122					
17. 22	26. 0	15. 55	·1125					
17. 52	27. 40	16. 18	·1123					
18. 39	27. 20	17. 10	·1127					
18. 59	24. 30		***					
19. 13	26. 30	18. 0	·1124					
19. 26	26. 0	18. 16	·1132					
19. 36	24. 10	18. 29	·1126					
19. 41	24. 50	18. 40	·1136					
19. 50	23. 55		***					
20. 12	26. 20	19. 25	·1135					
20. 26	26. 20		***					
20. 35	27. 0	20. 20	·1125					
21. 28	27. 30	21. 0	·1129					
21. 55	30. 30		***					
23. 0	35. 10	23. 59	·1124					
23. 59	37. 45							
May 13		May 13		May 13		May 13		
0. 0	21. 37. 50	0. 0	·1125		(†)	1. 0	56 ·3	57 ·2
0. 28	38. 30	1. 30	·1124	1. 0	·01949*	3. 0	58 ·2	59 ·7
0. 40	38. 45	2. 31	·1130	1. 40	·02147	9. 0	57 ·6	59 ·2
1. 30	35. 55	3. 56	·1118	5. 45	·02110	21. 0	53 ·3	55 ·4
1. 44	36. 5	4. 45	·1125		·02200			
2. 15	35. 0	5. 14	·1122	8. 10:	·02150			
2. 26	35. 30	5. 50	·1133	12. 11	·02330			
3. 10	33. 45	6. 22:	·1122	14. 9	·02540			
3. 20	34. 0	7. 30	·1128	18. 15	·02546			
4. 12	31. 50	8. 5	·1120		·02470			
4. 42	29. 25	8. 25	·1131	20. 45	·02450			
5. 15	28. 55	9. 15:	·1118	23. 59	·02127			
5. 45	25. 20	10. 1	·1124					
6. 8	28. 0	11. 0	·1118					
7. 16	28. 20	11. 36	·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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
8. 9	21. 26. 20	11. 45	·1135					
8. 22	22. 30	11. 57	·1132					
8. 30	23. 20	12. 10	·1135					
8. 44	22. 30	12. 30	·1124					
9. 59	27. 0	12. 39	·1124					
10. 45	24. 20	13. 0	·1118					
11. 45	26. 5	14. 15	·1124					
11. 54	30. 20	16. 0	·1124					
12. 19	23. 30	17. 0	·1126					
12. 29	25. 0	21. 48	·1104					
12. 40	23. 35	22. 1	·1098					
12. 48	26. 0	23. 59	·1101					
13. 57	28. 20							
14. 28	26. 45							
15. 22	27. 0							
16. 12	26. 0							
19. 10:	21. 0							
20. 7	21. 55							
21. 15	26. 45							
22. 18	33. 0							
23. 26	37. 40							
23. 32	37. 0							
23. 59	38. 55							
May 14		May 14		May 14		May 14		
0. 0	21. 38. 55	0. 0	·1101	0. 0	·02127	1. 0	57 ·3	58 ·5
0. 42	37. 30	0. 20	·1108	3. 15	·02050	3. 0	59 ·1	60 ·0
	***	2. 53	·1122	5. 15	·02067	9. 0	58 ·2	60 ·0
2. 30	36. 25	3. 16	·1114		·02110	21. 0	55 ·6	57 ·0
	***	3. 47	·1128	7. 11	·02050			
3. 53	31. 0		***	10. 7	·02167			
	***	4. 40	·1128	13. 45	·02326			
6. 17	28. 0	5. 14	·1125	16. 59	·02647			
8. 54	28. 20	7. 15	·1127	18. 13	·02557			
10. 52	27. 50	8. 8	·1133	19. 30	·02637			
11. 10	28. 10	8. 30	·1129	21. 40	·02570			
11. 56	28. 0	9. 0	·1132		·02370			
12. 10	29. 10	10. 40	·1128	23. 59	·02300			
12. 52	29. 15	15. 14	·1126					
13. 21	28. 0	17. 45:	·1129					
15. 22	27. 30	21. 0	·1110					
15. 44	26. 40	21. 54	·1110					
17. 11	25. 20	23. 20	·1104					
19. 10	21. 40	23. 40	·1092					
20. 54	22. 30	23. 59	·1089					
23. 59	34. 10							
May 15		May 15		May 15		May 15		
0. 0	21. 34. 10	0. 0	·1089	0. 0	·02300	1. 0	58 ·0	58 ·8
1. 45	36. 20	0. 10	·1083	1. 44	·02247	3. 0	60 ·6	60 ·8
4. 17	31. 45	0. 39	·1084	3. 10	·02110	9. 0	62 ·2	62 ·0
7. 45	29. 15	0. 55	·1079	5. 11	·02175	22. 25	57 ·3	58 ·0
8. 0	29. 30	2. 40	·1090	7. 15	·02143			
8. 41	28. 20	3. 16	·1085	9. 35	·02130			
9. 0	28. 40	3. 50	·1088	12. 10	·02312			
9. 18	28. 0	5. 43	·1087	14. 48	·02670			
9. 29	28. 30	6. 41	·1094	19. 29	·02620			
9. 56	28. 15	8. 0:	·1088	23. 59	·02406			

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 15		May 15						
h m	° ′ ″	h m		h m		h m	°	°
10. 30	21. 29. 10	9. 0	·1100					
11. 30	27. 50	9. 15	·1097					
11. 43	28. 20		***					
12. 56	27. 55	10. 28	·1096					
13. 12	28. 20	10. 50	·1102					
13. 45	27. 0		***					
14. 10	26. 50	11. 57	·1101					
14. 59	28. 15	13. 0	·1104					
15. 52	28. 10	13. 30	·1109					
16. 59	27. 20	14. 15	·1108					
17. 13	27. 25	15. 30	·1114					
	***	16. 40	·1114					
19. 0	24. 30	17. 55	·1117					
19. 44	24. 30	18. 50	·1106					
23. 0	31. 0	19. 10	·1107					
23. 59	33. 30	22. 0	·1088					
		23. 59	·1098					
May 16		May 16		May 16		May 16		
0. 0	21. 33. 30	0. 0	·1098	0. 0	·02406	7. 50	63 ·5	64 ·5
1. 11	35. 20	1. 40	·1105	1. 0	·02367	21. 0	56 ·0	56 ·8
2. 15	35. 5	1. 58	·1100		·02070			
3. 12	33. 30		***	1. 47	·02037			
4. 36	32. 10	2. 30	·1108	3. 22	·02177			
6. 42	29. 15	2. 45	·1105	5. 52	·02216			
8. 15	30. 0	3. 40	·1105	8. 6	·02160			
10. 5	29. 35	4. 15	·1110	9. 58	·02150			
10. 13	28. 50	4. 35	·1106	12. 22	·02247			
11. 11	27. 55	5. 20	·1102	13. 30	·02348			
11. 45	24. 20	6. 20	·1110	15. 26	·02690			
12. 15	28. 50	6. 45	·1104	21. 9	·02610			
12. 47	22. 0	7. 10	·1105		·02508			
13. 11	23. 10	8. 2	·1112	23. 59	·02396			
13. 39	22. 50	8. 45	·1112					
14. 30	25. 0	9. 10	·1108					
14. 52	24. 55		***					
15. 11	26. 15	10. 57	·1113					
15. 26	25. 30		***					
16. 12	26. 30	12. 0	·1105					
16. 21	27. 20	12. 45	·1124					
16. 39	27. 0		***					
17. 24	23. 10	14. 45	·1108					
17. 47	23. 45	15. 15	·1114					
18. 51	22. 45	16. 5	·1113					
19. 44	26. 15	17. 0	·1120					
20. 4	25. 20	17. 42	·1113					
20. 43	27. 20	18. 25:	·1117					
20. 54	26. 30	21. 30	·1096					
23. 30	33. 40	21. 45	·1085					
23. 59	34. 0	22. 15	·1089					
		23. 59	·1081					
May 17		May 17		May 17		May 17		
0. 0	21. 34. 0	0. 0	·1080	0. 0	·02396	1. 0	59 ·6	60 ·0
2. 15	37. 10	0. 50	·1078	2. 14	·02313	3. 0	60 ·5	61 ·3
2. 44	35. 0	1. 40	·1093	4. 10	·02163	9. 9	62 ·8	63 ·6
2. 54	35. 20	2. 15	·1110	4. 43	·02159	21. 0	59 ·3	60 ·4
3. 21	33. 50	2. 53	·1095		·02190			
	***							

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 17		May 17		May 17				
h m	° ′ ″	h m		h m		h m	°	°
5. 7	21. 32. 30	3. 50	·1114	5. 30	{·02180 ·02256			
5. 47	29. 50	4. 4	·1110					
6. 33	28. 0	4. 51	·1121	6. 39	·02190			
6. 54	29. 30	5. 20	·1119	11. 7	·02187			
7. 26	28. 30	5. 42	·1112	13. 12	·02235			
7. 39	29. 15	5. 55	·1118	13. 40	·02238			
8. 45	21. 30	6. 41	·1114	14. 54	·02317			
10. 7	27. 30	7. 15:	·1124	15. 11	·02309			
10. 52	26. 40		***	17. 0	·02360			
13. 0	28. 30	8. 20	·1102	19. 59	{·02350 ·02246			
13. 51:	23. 5	8. 55	·1104					
15. 0	28. 0	9. 25	·1100	23. 50	·02210			
16. 52	24. 30	10. 0	·1112					
17. 12	24. 30		***					
17. 38	25. 20	11. 0	·1113					
18. 11	27. 0		***					
18. 41	24. 20	12. 0	·1106					
19. 3	22. 25	12. 50	·1108					
	***	13. 15	·1120					
21. 27	25. 25	13. 25	·1120					
22. 0	28. 20	13. 45	·1129					
22. 30	28. 55	17. 35	·1130					
23. 41	32. 45		***					
23. 54	32. 0	20. 4	·1116					
23. 59	32. 30	21. 0	·1118					
			***					
		22. 13	·1097					
			***					
		22. 50	·1094					
		23. 15	·1100					
		23. 59	·1100					
May 18		May 18		May 18		May 18		
0. 0	21. 32. 30	0. 0	·1100	0. 12	·02190	1. 0	61 ·5	62 ·0
0. 45	35. 15	0. 46	·1106	0. 33	{·02187 ·02150	3. 0	64 ·0	64 ·0
	***	1. 5	·1104			9. 0	65 ·5	66 ·5
2. 43	34. 35		***	4. 22	·02278	21. 0	59 ·2	58 ·2
3. 10	33. 40	2. 30	·1100	5. 21	·02270			
3. 18	33. 50	3. 0	·1106	6. 7	·02284			
4. 0	32. 30	3. 15	·1100	8. 39	·02216			
4. 10	32. 45	3. 45	·1105	9. 51	·02230			
4. 58	30. 40		***	11. 30:	·02330			
5. 2	31. 20	4. 30	·1102	13. 52	·02764			
6. 10	25. 55		***	19. 27	·02656			
6. 37	27. 10	5. 8	·1113	21. 55	·02663			
7. 2	27. 5		***	23. 59	·02485			
10. 15	29. 35	5. 45	·1108					
10. 47	28. 45	6. 17	·1121					
13. 27	26. 50	7. 0:	·1113					
13. 40	27. 30	7. 55	·1117					
	***	8. 53	·1113					
17. 26	26. 0	11. 40	·1116					
19. 48:	22. 30	12. 45	·1120					
23. 30	34. 20	14. 0	·1120					
23. 59	34. 0	14. 40	·1124					
		17. 55	·1128					
		18. 11	·1121					
		18. 24	·1155					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	May 18 h m		h m		h m	°	°
		19. 0	·1150					
		19. 26	·1152					
		21. 15	·1136					
			***					
		22. 55	·1129					
		23. 59	·1126					
May 19		May 19		May 19		May 19		
0. 0	21. 34. 0	0. 0	·1126	0. 0	·02485	1. 0	61 ·0	60 ·4
1. 18	34. 30	0. 30	·1131	1. 19	·02406	3. 0	62 ·0	63 ·4
2. 52	32. 15	0. 45	·1128	2. 44	·02147	9. 0	63 ·5	64 ·0
4. 8	31. 10	1. 0	·1129	5. 45	{·02187 ·02242	21. 0	59 ·0	57 ·5
7. 15	27. 0	1. 15	·1125					
8. 40	28. 30	2. 40	·1126	6. 45	·02196			
	***	3. 5	·1130	6. 52	·02237			
9. 19	27. 20	3. 55	·1131	10. 2:	·02200			
9. 29	27. 55	4. 50:	·1156	14. 29	·02738			
9. 51	27. 30		***	21. 44	·02660			
9. 58	28. 0	7. 0	·1151	23. 37	·02395			
10. 24	26. 50	7. 45	·1158		(†)			
11. 15	27. 10		***					
11. 52	26. 10	9. 50	·1148					
12. 15	28. 0	10. 30	·1156					
13. 58	27. 35	12. 20	·1154					
16. 8	28. 15	17. 5	·1159					
16. 21	27. 20	18. 0:	·1152					
17. 38	27. 0	18. 44	·1140					
19. 10	24. 20	19. 30	·1144					
20. 33	26. 10		***					
22. 52	34. 30	19. 45	·1140					
23. 59	35. 35	21. 15	·1132					
		21. 50	·1136					
		22. 10	·1134					
		23. 0	·1136					
		23. 15	·1132					
		23. 59	·1132					
May 20		May 20		May 20		May 20		
0. 0	21. 35. 35	0. 0	·1132		(†)	1. 0	62 ·2	62 ·0
0. 8	34. 0	0. 40	·1134	0. 10	·02369	3. 0	65 ·0	65 ·2
2. 40	33. 55	2. 0	·1129	1. 43	·02147	9. 0	67 ·2	66 ·5
3. 0	33. 0	2. 40	·1136	3. 32	·02217	21. 0	60 ·5	59 ·7
5. 25	29. 10	3. 0	·1127	6. 12	·02164			
6. 40	29. 15	3. 25	·1127	6. 21	·02184			
10. 54	26. 50	3. 40	·1131	9. 0	{·02193 ·02230			
11. 18	28. 20	5. 45	·1138					
11. 47	26. 25	6. 0	·1146	12. 25:	·02349			
12. 1	27. 15	6. 30	·1138	15. 58	·02760			
14. 53	26. 20	8. 19	·1151	19. 54	·02700			
15. 39	24. 30	8. 31	·1145	21. 53	·02710			
15. 54	24. 50	8. 55	·1150	23. 59	·02520			
16. 45	23. 20	11. 0	·1154					
18. 13	22. 0	11. 26	·1160					
18. 40	23. 30	12. 45	·1154					
18. 55	22. 45	14. 25	·1143					
19. 29	23. 20	14. 40	·1159					
20. 38	25. 40	15. 5	·1167					
20. 47	25. 30	17. 0	·1166					
			***					

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

Greenwich Mean Solar Time.	Western Declination	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Readings of Thermometers. Of V.F. Magnet.
May 20		May 20						
h m	° ′ ″	h m		h m		m	°	°
22. 46	21. 31. 30	19. 6	·1152					
23. 25	33. 30	19. 25	·1154					
23. 39	33. 15	20. 45	·1142					
23. 59	34. 0	21. 0	·1148					
		21. 40	·1142					
		23. 14	·1144					
		23. 32	·1140					
		23. 59	·1143					
May 21		May 21		May 21		May 21		
0. 0	21. 34. 0	0. 0	·1143	0. 0	·02520	1. 0	64 ·2	63 ·5
1. 50	35. 20	0. 55	·1146	2. 22	·02145	3. 0	64 ·5	66 ·2
5. 22	27. 0	1. 15	·1148	5. 46	·02176	9. 0	67 ·0	67 ·0
6. 10	26. 0	2. 8	·1150	5. 53	·02226	21. 0	62 ·5	62 ·2
8. 7	26. 20	3. 0	·1155	7. 25	·02213			
8. 51	27. 20	3. 33	·1152	10. 10	·02256			
9. 46	27. 5	4. 0	·1154	12. 46	·02236			
11. 12	28. 10	4. 57	·1164		***			
12. 30	28. 0	5. 15	·1161	15. 26	·02407			
13. 4	29. 0	5. 50	·1166	17. 56	·02797			
13. 28	28. 55		***	21. 7	{·02757 ·02656			
13. 23	31. 20	7. 45	·1162					
13. 54	27. 30		***	23. 0	·02677			
14. 12	29. 55	10. 0	·1169	23. 59	·02650			
14. 23	28. 0		***					
14. 28	28. 55	13. 15	·1169					
14. 43	26. 0	13. 28	·1187					
15. 0	24. 0	13. 55	·1181					
15. 9	24. 30		***					
15. 25	20. 30	15. 10	·1190					
15. 42	24. 0	15. 30	·1177					
15. 54	24. 30		***					
16. 12	23. 45	16. 45	·1186					
16. 26	25. 0	17. 25	·1176					
16. 30	23. 55	17. 45	·1182					
16. 55	23. 55		***					
17. 17	29. 10	19. 14	·1172					
17. 44	27. 20	19. 30	·1181					
17. 50	30. 0	19. 56	·1173					
18. 11	25. 30	20. 13	·1178					
18. 15	26. 10	20. 35	·1168					
18. 28	24. 30	20. 45	·1173					
18. 43	26. 40	21. 35	·1160					
18. 51	22. 0		***					
19. 4	24. 30	22. 25	·1147					
19. 15	21. 0	22. 39	·1159					
19. 30	22. 55	23. 6	·1136					
19. 54	22. 45	23. 40	·1155					
20. 0	21. 0	23. 46	·1151					
20. 15	23. 30	23. 59	·1156					
20. 35	19. 30							
20. 48	26. 30							
	***							
21. 35	27. 0							
21. 45	25. 50							
21. 54	26. 25							
22. 12	27. 0							
22. 40	35. 0							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Readings of Thermometers. Of V.F. Magnet.
May 21								
h m	° ′ ″	h m		h m		h m	°	°
22. 54	21. 33. 0							
23. 10	33. 25							
23. 26	32. 25							
23. 59	33. 0							
May 22		May 22		May 22		May 22		
0. 0	21. 33. 0	0. 0	·1156	0. 0	·02650	1. 0	64 ·5	64 ·3
0. 38	33. 25	0. 15	·1154	4. 43	·02217	3. 0	66 ·0	65 ·4
1. 51	35. 30	0. 55	·1154		***	9. 0	66 ·5	66 ·0
	***	2. 0	·1171	8. 25	·02164	21. 30	60 ·3	60 ·7
3. 11	33. 0		***	10. 40	·02200			
3. 19	32. 0	4. 15	·1177	12. 44	·02407			
3. 30	32. 55		***	15. 12	·02786			
3. 45	31. 0	6. 25	·1168	20. 18	·02720			
	***	6. 50	·1178	23. 59	·02620			
6. 4	28. 20	7. 4	·1168					
6. 14	28. 40	7. 46	·1168					
7. 9	27. 20	7. 55	·1182					
	***	8. 0	·1172					
9. 30	27. 0	8. 9	·1179					
	***	8. 30	·1170					
10. 27	28. 15	10. 0	·1180					
11. 13	26. 50	10. 11	·1201					
14. 38	24. 20	10. 17	·1193					
15. 7	26. 0	10. 25	·1203					
	***		***					
16. 39	26. 0	10. 38	·1190					
16. 45	25. 0	11. 0	·1194					
17. 7	24. 55	11. 14	·1187					
17. 13	23. 20	11. 42	·1190					
	***		***					
18. 6	23. 45	12. 30	·1186					
18. 17	22. 30	12. 50	·1190					
	***		***					
18. 41	23. 20	13. 51	·1185					
	***	14. 22	·1187					
19. 0	23. 0	14. 39	·1176					
	***		***					
19. 16	24. 30	16. 0	·1170					
	***	16. 43	·1171					
19. 44	22. 45		***					
	***	17. 28	·1180					
20. 21	25. 30		***					
	***	18. 13	·1168					
21. 36	28. 0		***					
21. 57	29. 30	19. 25	·1172					
22. 3	30. 55	19. 50	·1162					
23. 26	33. 45	20. 30	·1158					
23. 59	32. 30		***					
		21. 45	·1171					
			***					
		23. 59	·1160					
May 23		May 23		May 23		May 23		
0. 0	21. 32. 30	0. 0	·1160	0. 0	·02620	9. 0	60 ·5	61 ·5
0. 14	33. 20	0. 40	·1170	1. 29	·02553	21. 0	54 ·5	55 ·7
1. 3	33. 30	0. 55	·1163	3. 36	·02327			
					***			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 23		May 23		May 23				
h m	° ′ ″	h m		h m		h m	°	°
1. 22	21. 34. 0	1. 14	·1172	5. 39	·02222			
1. 37	34. 50	1. 20	·1171		***			
2. 0	33. 30	1. 38	·1176	7. 6	·02210			
2. 22	33. 45	2. 2	·1166	7. 29	·02270			
2. 39	33. 0		***	7. 53	·02270			
4. 19	33. 10	3. 15	·1175	8. 23	·02339			
4. 38	31. 20	3. 35	·1167	9. 21	·02400			
4. 41	33. 40		***	9. 52	·02378			
4. 51	31. 35	4. 25	·1182	11. 25	·02529			
5. 12	32. 30	4. 36	·1168	11. 38	·02487			
5. 27	31. 30	4. 45	·1197	12. 4	·02530			
6. 28	32. 30	4. 57	·1180		·02468			
7. 17	29. 30	5. 0	·1187	12. 45	·02437			
7. 45	30. 0	5. 5	·1180	13. 18	·02504			
7. 51	26. 30	5. 20	·1199	13. 38	·02485			
7. 54	28. 10	5. 37	·1177		(†)			
8. 14	26. 15		***	21. 0	·02540			
8. 30	26. 30	6. 0	·1185	22. 40	·02627			
8. 48	20. 0	6. 8	·1192	23. 45	·02583			
8. 57	21. 20	6. 15	·1208	23. 59	·02565			
9. 10	18. 40	6. 24	·1196					
9. 18	20. 15	6. 30	·1204					
9. 58	14. 30	6. 34	·1200					
10. 15	21. 0	6. 40	·1205					
10. 26	18. 30	6. 47	·1194					
11. 17	17. 0	6. 58	·1167					
11. 26	18. 0	7. 25	·1204					
11. 43	14. 10	7. 40	·1187					
11. 50	17. 15	7. 44	·1212					
12. 2	16. 0	7. 55	·1158					
12. 16	34. 30	8. 16	·1175					
12. 29	34. 30	8. 38	·1156					
12. 55	25. 0		***					
13. 28	33. 55	9. 5	·1158					
13. 40	29. 10	9. 15	·1164					
13. 49	29. 0	9. 29	·1170					
14. 13	19. 10	10. 0	·1151					
14. 40	32. 30		***					
14. 50	30. 5	11. 1	·1141					
15. 0	34. 30	11. 25	·1161					
15. 15	28. 20	11. 55	·1137					
15. 35	44. 50	12. 11	·1166					
16. 7	27. 15	12. 25	·1148					
16. 22	27. 20	12. 40	·1162					
16. 39	30. 50	12. 54	·1164					
16. 50	31. 0	13. 5	·1157					
16. 54	30. 30	13. 18	·1169					
	(†)	13. 30	·1161					
21. 5	29. 55		***					
21. 41	30. 5	14. 40	·1158					
22. 26	32. 0		***					
	***	15. 30	·1140					
23. 13	36. 40	15. 44	·1147					
	***	16. 5	·1162					
23. 59	38. 0		(†)					
		21. 5	·1130					
		21. 40	·1120					
		22. 25	·1124					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		May 23						
h m	° ′ ″	h m		h m		h m	°	°
		23. 20	·1119					
		23. 59	·1130					
May 24		May 24		May 24		May 24		
0. 0	21. 38. 0	0. 0	·1131	0. 0	·02565	1. 0	59 ·7	59 ·0
0. 40	38. 0	0. 8	·1128	3. 0	·02149	3. 0	59 ·5	61 ·4
1. 41	37. 30	0. 25	·1134	4. 16	·02160	9. 0	61 ·1	61 ·5
1. 58	36. 50	0. 44	·1128	6. 58	·02086	21. 0	55 ·8	57 ·5
2. 10	38. 20	1. 15	·1142		·02170			
2. 18	37. 0	1. 45	·1141	9. 51	·02130			
2. 29	37. 0	1. 57	·1137	13. 40	·02230			
2. 36	39. 0	2. 10	·1158	17. 25	·02429			
2. 45	36. 30	2. 30	·1144	20. 0	·02693			
3. 11	39. 45	2. 41	·1168	22. 15	·02677			
3. 26	38. 55	3. 8	·1142	23. 59	·02693			
3. 28	39. 40	3. 17	·1134					
3. 49	36. 0	3. 25	·1146					
4. 26	36. 55	3. 30	·1137					
4. 40	35. 30		***					
4. 42	35. 40	4. 10	·1139					
5. 0	37. 30	4. 26	·1148					
5. 35	33. 5	4. 30	·1142					
6. 9	31. 25	4. 40	·1143					
6. 26	32. 10	4. 45	·1138					
6. 42	31. 30	5. 0	·1146					
8. 15	31. 0		***					
15. 14	27. 55	5. 31	·1142					
	***	5. 55	·1143					
17. 43	23. 30	6. 10	·1155					
18. 12	24. 30	7. 8	·1160					
18. 29	23. 30	9. 41	·1158					
18. 40	23. 45	11. 14	·1164					
18. 45	25. 20	11. 45	·1160					
19. 7	24. 30		***					
19. 39	23. 30	15. 0	·1158					
20. 0	24. 30		***					
20. 19	24. 0	16. 30:	·1160					
22. 52	30. 40		***					
	***	20. 30	·1138					
23. 39	34. 30	22. 25	·1136					
23. 43	34. 10	23. 0	·1133					
23. 59	37. 0	23. 25	·1136					
		23. 45	·1128					
		23. 59	·1132					
May 25		May 25		May 25		May 25		
0. 0	21. 37. 0	0. 0	·1133	0. 0	·02693	1. 0	57 ·6	58 ·5
0. 12	37. 10	0. 25	·1125	1. 45	·02674	3. 0	59 ·8	61 ·0
0. 20	36. 20	1. 0	·1128	4. 25	·02183	9. 0	61 ·4	62 ·3
2. 7	36. 0	1. 15	·1124	8. 59	·02129	21. 0	56 ·4	55 ·9
2. 29	35. 0	2. 45	·1136		·02190			
2. 42	35. 20	3. 15	·1129	11. 54	·02248			
3. 0	34. 30		***	15. 13	·02715			
3. 10	34. 50	4. 46	·1135	21. 7	·02666			
3. 18	33. 30	5. 8	·1130		·02590			
5. 12	30. 50	5. 57	·1142	21. 44	·02570			
5. 55	30. 15	6. 15	·1134	21. 51	·02504			
6. 26	28. 40	6. 25	·1138	23. 38	·02484			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V. F. Magnet.
May 25		May 25		May 25				
h m	° ′ ″	h m		h m		h m	°	°
6. 43	21. 28. 30	7. 0	·1135	23. 59	·02347			
7. 7	27. 30	8. 12	·1142					
7. 42	27. 30	8. 25	·1139					
8. 27	29. 30		***					
10. 25	29. 30	10. 2	·1139					
11. 7	26. 0	10. 16	·1143					
11. 54	27. 50	10. 29	·1138					
12. 11	27. 30		***					
13. 40	29. 30	12. 32	·1139					
13. 55	28. 30	13. 0	·1144					
14. 40	32. 15	13. 44	·1144					
15. 7	30. 55	14. 0	·1142					
15. 54	27. 30	14. 53	·1147					
17. 31	26. 0	15. 0	·1143					
17. 40	26. 30	15. 46	·1148					
18. 0	25. 30	17. 45	·1151					
18. 40	27. 10		***					
18. 51	26. 30	19. 5	·1130					
	***	19. 15	·1134					
19. 45	27. 15	20. 3	·1129					
20. 22	24. 20	21. 0	·1132					
20. 39	26. 0	21. 30	·1127					
21. 39	27. 30		***					
22. 15	29. 20	22. 50	·1136					
22. 57	33. 30	23. 0	·1134					
23. 38	35. 10	23. 56	·1135					
23. 45	33. 40							
23. 55	33. 30							
23. 59	34. 30							
May 26		May 26		May 26		May 26		
0. 0	21. 34. 30	0. 4	·1143	0. 0	·02347	1. 0	58 ·5	59 ·8
0. 43	35. 20	0. 40	·1130	1. 50	·02006	3. 0	60 ·0	61 ·6
1. 21	36. 35	1. 5	·1139	3. 0	·02037	9. 0	63 ·2	63 ·5
4. 11	33. 40	1. 35	·1138		·02340	21. 6	56 ·0	57 ·0
5. 12	30. 40	2. 29	·1143	4. 43	·02154			
5. 45	29. 30	2. 43	·1139	7. 45	·02072			
6. 58	28. 0		***	10. 12	·02083			
8. 17	27. 30	3. 41	·1148	12. 55	·02308			
8. 52	27. 50	3. 54	·1144	15. 43	·02773			
9. 16	27. 30	4. 30	·1144	22. 30	·02694			
10. 52	28. 30	5. 3	·1157	23. 59	·02646			
14. 13	28. 35	5. 40	·1154					
14. 30	28. 10		***					
15. 26	28. 15	12. 46	·1156					
15. 57	26. 30	12. 54	·1144					
17. 11	23. 30	13. 12	·1161					
17. 30	23. 40	13. 24	·1156					
17. 45	22. 40	15. 0	·1164					
18. 45	22. 30	17. 14	·1160					
19. 30	23. 45	20. 49	·1142					
21. 11	29. 20	21. 9	·1146					
21. 40	31. 50	21. 30	·1136					
22. 9	32. 30	21. 55	·1135					
22. 54	36. 40	22. 8	·1128					
23. 28	37. 10	22. 27	·1126					
23. 43	36. 10	23. 16	·1138					
23. 59	35. 45	23. 59	·1144					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V. F. Magnet.
May 27		May 27		May 27		May 27		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 35. 45	0. 0	·1145	0. 0	·02646	1. 0	58 ·6	59 ·0
0. 12	35. 20	0. 44	·1152	1. 45	·02530	3. 0	61 ·8	62 ·2
1. 17	36. 30	1. 45	·1137	3. 28	·02207	9. 0	65 ·5	66 ·5
1. 51	35. 55	2. 35	·1158	5. 7	·02256	21. 8	60 ·2	60 ·6
2. 20	36. 40	3. 13	·1128	7. 30	·02196			
2. 38	36. 40	3. 35	·1132	11. 40	·02148			
3. 11	32. 0	3. 49	·1130	13. 51	·02288			
4. 9	32. 0	4. 16	·1140	17. 30	·02884			
4. 30	30. 55	4. 40	·1133	20. 30	·02790			
5. 36	29. 0	5. 20	·1142	22. 52	·02837			
6. 52	28. 10	6. 30	·1140	23. 59	·02787			
8. 23	28. 45	8. 15	·1142					
8. 32	39. 40	9. 20:	·1148					
9. 6	28. 40	10. 15	·1146					
9. 30:	22. 0	10. 30	·1137					
9. 58	25. 10	10. 45	·1135					
10. 15	21. 30	11. 10	·1124					
10. 37	21. 0	11. 37	·1131					
12. 45	27. 30	11. 45	·1128					
14. 13	28. 5	12. 55	·1139					
14. 52	29. 0	14. 15	·1135					
15. 18	28. 10	15. 17	·1141					
15. 45	28. 20	17. 10	·1140					
16. 0	27. 30		***					
16. 14	28. 0	19. 20	·1126					
16. 59	27. 30	19. 40	·1128					
17. 30	25. 35	20. 50	·1111					
17. 51	26. 30	23. 2	·1130					
18. 22	25. 0	23. 18	·1127					
18. 30	26. 0	23. 59	·1129					
19. 12	26. 5							
19. 27	25. 5							
19. 45	26. 55							
20. 21	25. 30							
21. 15	32. 30							
21. 45	30. 40							
22. 30	30. 55							
23. 8	33. 15							
23. 59	34. 25							
May 28		May 28		May 28		May 28		
0. 0	21. 34. 25	0. 0	·1130	0. 0	·02787	1. 0	62 ·4	63 ·0
0. 40	36. 45	1. 5	·1124	1. 45	·02703	3. 0	63 ·5	64 ·5
2. 40	34. 40	4. 5:	·1141	5. 25	·02184	9. 0	64 ·7	65 ·0
3. 40	32. 50	4. 35	·1135	7. 11	·02178	21. 0	61 ·0	60 ·5
3. 57	32. 45	4. 59	·1147		·02253			
4. 14	32. 0	5. 16	·1127	10. 10	·02185			
4. 30	32. 10	5. 31	·1138	12. 48:	·02293			
4. 49	31. 0	5. 42	·1135	16. 54	·02857			
5. 7	31. 0	5. 51	·1141	22. 13	·02796			
5. 27	29. 10		***	23. 59	·02587			
5. 53	28. 20	7. 10	·1147					
7. 12	27. 25	8. 40	·1142					
7. 43	28. 5	9. 45	·1147					
7. 59	28. 0	10. 1	·1143					
8. 22	28. 15	10. 25	·1147					
8. 58	27. 20		***					
10. 4	29. 40	12. 53	·1147					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 28		May 28						
h m	° ′ ″	h m		h m		h m	°	°
10. 15	21. 29. 15	15. 20	·1152					
11. 4	29. 45	17. 0:	·1155					
11. 29	28. 30	19. 0	·1138					
13. 46	28. 45	19. 18	·1144					
16. 30	26. 40	20. 0	·1129					
17. 17	24. 40	20. 44	·1128					
18. 2	24. 0	21. 0	·1123					
18. 25	24. 50		***					
18. 43	23. 40	22. 30	·1122					
19. 51	23. 15	22. 44	·1107					
20. 4	24. 0		***					
20. 26	23. 20	23. 28	·1120					
20. 45	24. 45	23. 59	·1119					
20. 59	24. 10							
21. 45	26. 55							
23. 23	35. 30							
23. 59	36. 20							
May 29		May 29		May 29		May 29		
0. 0	21. 36. 20	0. 0	·1118	0. 0	·02587	1. 0	65 ·0	65 ·6
0. 37	36. 50	1. 21	·1126	1. 48	·02228	3. 0	68 ·0	68 ·6
1. 25	37. 0	2. 13	·1117	2. 42	·02277	9. 0	70 ·2	70 ·3
1. 52	36. 0	2. 17	·1119	5. 44	·02293	22. 45	64 ·0	66 ·0
2. 28	35. 20	2. 30	·1114	7. 30	·02222			
3. 38	33. 0	2. 50	·1119	11. 14:	·02390			
4. 0	33. 20	3. 10	·1112	14. 50	·02886			
5. 28	29. 30	3. 25	·1110	22. 55	·02784			
6. 44	26. 20	3. 58	·1128	23. 45	·02707			
7. 22	26. 0	4. 44	·1115					
9. 45	28. 15	5. 0	·1123					
11. 54	28. 20	5. 10	·1122					
12. 15	29. 40	5. 31	·1131					
12. 24	28. 20	5. 55	·1124					
13. 18	29. 35	6. 43	·1126					
13. 35	29. 0	7. 1	·1131					
13. 45	30. 10	7. 35	·1124					
14. 11	30. 40		***					
14. 29	28. 50	9. 0	·1126					
15. 6	28. 0	10. 30	·1132					
15. 12	28. 30	12. 0	·1129					
16. 26	26. 0	12. 27	·1136					
17. 21	25. 0	12. 41	·1133					
17. 48	25. 0		***					
18. 22	24. 20	15. 10	·1143					
18. 42	22. 30		***					
19. 6	24. 0	18. 40	·1140					
19. 29	24. 20	19. 35	·1130					
19. 42	23. 20	19. 55	·1131					
21. 5	28. 20	20. 52	·1117					
21. 25	28. 25		***					
23. 50	36. 50	22. 52	·1122					
	(†)	23. 10	·1116					
		23. 55	·1116					
May 30		May 30		May 30		May 30		
8. 15	21. 27. 46*	8. 15·	·1145*	8. 15	·02208*	8. 15	71 ·8	72 ·0
21. 0	28. 29*	21. 0	·1127*	21. 0	·02966*	21. 0	68 ·0	67 ·7

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 31		May 31		May 31		May 31		
h m	° ′ ″	h m		h m		h m	°	°
	(†)		(†)		(†)	1. 0	72 ·5	71 ·7
0. 26	21. 35. 30	0. 30	·1126	0. 28	·02543	3. 0	74 ·0	75 ·3
1. 10	36. 0	0. 45	·1128	1. 50	·02237	9. 0	76 ·5	75 ·0
1. 39	36. 50	1. 15	·1120	2. 40	{·02228	21. 0	69 ·8	69 ·4
1. 57	35. 30	2. 25	·1127		{·02297			
4. 7	31. 10	2. 44	·1133	4. 13	{·02195			
5. 21	29. 40	3. 0	·1125		{·02277			
5. 51	28. 10	3. 13	·1131		***			
6. 23	28. 20	3. 49	·1127	6. 30	·02212			
6. 40	28. 0	4. 7	·1121	7. 45	·02217			
7. 10	28. 30	4. 40	·1139	9. 39	·02316			
7. 51	26. 20	5. 13	·1126	13. 52	·02830			
8. 52	29. 10	6. 20	·1142	16. 40	·02795			
9. 29	28. 30	6. 33	·1137	20. 57	·02764			
10. 7	29. 30	7. 0	·1147	23. 59	·02403			
10. 22	28. 30	7. 30	·1142					
10. 44	28. 50	8. 14	·1148					
11. 17	28. 30	8. 30	·1145					
11. 39	29. 25	8. 55	·1150					
14. 7	29. 30	9. 15	·1147					
14. 58	27. 30	9. 55	·1152					
15. 23	27. 55	10. 10	·1148					
15. 35	27. 30	10. 31	·1152					
15. 59	27. 25	11. 1	·1148					
16. 11	28. 20	11. 55	·1152					
16. 27	28. 5		***					
16. 44	29. 50	16. 59	·1146					
16. 56	28. 35	18. 10	·1148					
17. 40	27. 30	19. 9	·1134					
17. 56	25. 30	19. 22	·1138					
18. 24	23. 30	19. 45	·1125					
	***	20. 40	·1118					
19. 14	21. 45		***					
19. 39	23. 30	22. 7	·1117					
19. 48	21. 40	23. 59	·1115					
20. 14	23. 0							
20. 24	22. 10							
20. 39	23. 0							
20. 42	22. 30							
21. 41	27. 30							
23. 15	32. 30							
23. 59	33. 20							
June 1		June 1		June 1		June 1		
0. 0	21. 33. 20	0. 0	·1115	0. 0	·02403	1. 0	74 ·0	74 ·5
1. 45	33. 30		***	1. 28	·02153	3. 0	77 ·0	77 ·4
3. 9	29. 10	1. 45	·1140	3. 40	·02198	9. 0	78 ·7	80 ·0
5. 29	26. 25	2. 5	·1136	3. 55	·02280	21. 0	69 ·5	68 ·5
6. 30	28. 30		***	4. 58	·02247			
7. 31	27. 30	3. 40	·1144	5. 43	·02350			
9. 40	29. 20	4. 17	·1152	6. 26	·02377			
11. 15	28. 10	4. 35	·1146	8. 11	·02653			
12. 38	29. 10	5. 0	·1146	10. 28	·02782			
12. 51	29. 35	5. 30:	·1154	13. 27	·02649			
13. 21	27. 30	7. 8	·1143	18. 10	·02547			
14. 12	27. 45	7. 40	·1150	20. 55	·02580			
14. 28	29. 0	7. 55	·1146	23. 59	·02260			
14. 54	29. 20	8. 25	·1178					
			***					

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

May 30. The Photographic Traces for Declination, Horizontal Force, and Vertical Force were too faint for use.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Readings of Thermometers. Of V.F. Magnet.
June 1		June 1						
h m	° ′ ″	h m		h m		h m	°	°
15. 22	21. 27. 10	9. 20	·1182					
			***					
15. 41	27. 0							
15. 51	28. 0	11. 30	·1175					
16. 12	28. 15	12. 55	·1179					
16. 27	26. 10	13. 40	·1176					
16. 41	27. 0	14. 5	·1176					
17. 11	25. 20	15. 25	·1183					
17. 15	26. 25	15. 45	·1178					
17. 31	25. 30	16. 25	·1186					
			***					
17. 49	26. 0							
18. 12	23. 10	18. 9	·1178					
18. 25	23. 20	18. 46	·1159					
18. 36	24. 30	19. 25	·1158					
18. 49	24. 0	20. 20	·1150					
19. 4	24. 30	21. 0	·1132					
20. 15	21. 15	21. 45	·1132					
20. 42	21. 30	22. 11	·1140					
20. 46	22. 45	22. 25	·1130					
21. 56	25. 30	22. 36	·1130					
			***					
23. 59	35. 30							
		23. 59	·1122					
June 2		June 2		June 2		June 2		
0. 0	21. 35. 30	0. 0	·1122	0. 0	·02260	1. 0	72 ·5	73 ·6
0. 40	36. 30	0. 30	·1114	0. 58	·02143	3. 0	75 ·0	76 ·5
					·02074	9. 0	77 ·0	77 ·4
1. 10	38. 30	1. 9	·1130					
1. 39	37. 30	1. 22	·1122	1. 50	·01893	21. 0	71 ·0	71 ·4
			***	3. 2	·01967			
2. 0	37. 0				·02100			
	***	2. 26	·1131					
			***	4. 12	·01970			
4. 12	31. 0				·02130			
4. 47	29. 50	3. 15	·1117					
5. 0	30. 10	3. 45	·1124	5. 12	·02000			
6. 0	27. 45	4. 25	·1126	8. 11	·01956			
6. 40	27. 30	4. 39	·1159	10. 44	·02047			
7. 9	28. 40	4. 46	·1152	12. 15	·02207			
7. 56	29. 20	5. 2	·1167	14. 39	·02647			
9. 12	28. 30	5. 15	·1162	20. 54	·02610			
9. 22	29. 35	5. 45	·1172	23. 13	·02440			
9. 50	28. 30	6. 31	·1160	23. 59	·02285			
10. 12	28. 35	7. 14	·1168					
10. 45	27. 0	7. 40	·1163					
11. 57	27. 30	7. 55	·1168					
	***		***					
15. 56	27. 30	8. 35	·1160					
17. 0	24. 30	9. 12	·1164					
	***		***					
18. 11	24. 55	9. 49	·1156					
	***	10. 55	·1164					
18. 50	22. 30	11. 10	·1157					
20. 0	21. 50	11. 36	·1157					
			***					
20. 30	24. 30							
20. 52	24. 25	12. 14	·1147					
			***					
22. 30	33. 0							
23. 0	33. 0	14. 20	·1159					
			***					
23. 59	34. 50							
		16. 30	·1159					
		17. 39	·1151					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Readings of Thermometers. Of V.F. Magnet.
June 2		June 2						
h m	° ′ ″	h m		h m		h m	°	°
		17. 56	·1156					
			***					
		19. 30	·1145					
		20. 13	·1146					
		20. 55	·1138					
		21. 30	·1138					
		23. 0	·1136					
		23. 59	·1142					
June 3		June 3		June 3		June 3		
0. 0	21. 34. 50	0. 0	·1142	0. 0	·02285	1. 0	75 ·5	76 ·6
0. 46	37. 15	1. 0	·1135	1. 40	·01960	3. 0	77 ·8	80 ·0
1. 54	37. 0		***	5. 11	·02001	9. 0	80 ·4	81 ·5
2. 20	35. 20	3. 0	·1144		·02200	21. 0	68 ·8	68 ·0
2. 49	34. 35	3. 26	·1135	7. 52	·02103			
2. 58	35. 10	3. 35	·1140	10. 29	·02247			
	***		***	11. 54	·02522			
3. 54	33. 0	4. 12	·1133	12. 36	·02530			
4. 10	31. 30		***	13. 57	·02363			
	***	4. 43	·1134	16. 25	·02400			
6. 14	29. 10	5. 24	·1144	17. 24	·02384			
6. 54	30. 0	5. 55	·1147	20. 54	·02493			
7. 11	20. 55	6. 23	·1138		·02450			
	***	7. 0	·1151	23. 45	·02395			
8. 22	28. 0	7. 32	·1142	23. 59	·02353			
8. 40	29. 0	7. 45	·1146					
9. 10	32. 0	8. 13	·1136					
9. 46	30. 45	8. 24	·1143					
10. 4	28. 0	8. 29	·1135					
10. 25	26. 10	9. 0	·1146					
10. 45	27. 10	9. 27	·1142					
	(†)	10. 2	·1143					
12. 2	27. 20	10. 14	·1159					
12. 24	30. 40		***					
12. 44	28. 20	11. 0	·1144					
13. 0	28. 35		***					
13. 59	37. 30	12. 30	·1147					
14. 50	27. 0	13. 40	·1159					
15. 40	17. 0	14. 26	·1133					
17. 9	26. 30	15. 8	·1159					
17. 25	31. 0	16. 2	·1129					
17. 40	32. 50		***					
18. 31	28. 20	17. 0	·1142					
19. 10	30. 10		***					
19. 30	25. 15	18. 29	·1116					
20. 4	28. 20		***					
20. 28	26. 0	19. 45	·1123					
20. 45	27. 55	22. 15	·1108					
21. 12	26. 50		***					
21. 44	27. 40	23. 35	·1080					
22. 11	28. 0	23. 47	·1096					
23. 13	36. 30	23. 58	·1087					
23. 24	36. 0							
23. 34	37. 30							
23. 40	37. 10							
23. 50	39. 0							
23. 59	37. 40							

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 4		June 4		June 4		June 4		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 37. 35	0. 0	·1090	0. 0	·02353	1. 0	72 ·3	73 ·0
0. 13	36. 40	0. 25	·1108	1. 13	·02220	3. 0	73 ·0	73 ·7
0. 17	37. 0	0. 57	·1108	3. 18	·01877	9. 0	71 ·0	71 ·6
0. 59	34. 0	1. 25	·1129		·02260	21. 0	62 ·5	64 ·5
1. 15	36. 40	1. 44	·1118		***			
1. 43	37. 40	1. 54	·1129	5. 40	·01950			
	***	2. 0	·1120	6. 58	·01950			
2. 32	32. 25	2. 11	·1126	8. 13	·02028			
2. 45	34. 40	2. 30	·1098	11. 11	·02440			
3. 6	32. 0	2. 51	·1128	20. 52	·02390			
3. 12	32. 40	3. 7	·1126	21. 58	·02316			
3. 27	31. 30	3. 30	·1135	23. 22	·02283			
3. 42	33. 5	3. 46	·1136		(†)			
3. 52	32. 40		***					
4. 0	33. 30	4. 30	·1147					
4. 15	32. 15	4. 48	·1218					
4. 29	32. 35	5. 0	·1182					
4. 43	23. 30		***					
4. 52	21. 20	5. 35	·1154					
5. 0	31. 30	5. 59	·1164					
5. 15	29. 35	6. 16	·1147					
5. 39	31. 30	6. 32	·1160					
6. 0	28. 10	7. 0	·1138					
6. 12	29. 0	7. 13	·1148					
6. 24	26. 35	7. 25	·1138					
6. 41	28. 55	7. 35	·1136					
6. 54	28. 30	8. 6	·1148					
7. 16	26. 30		***					
7. 44	26. 10	9. 0	·1143					
8. 10	28. 25	9. 11	·1163					
8. 21	27. 30		***					
8. 46	28. 35	9. 44	·1147					
9. 14	27. 30	10. 10	·1174					
9. 21	28. 30	10. 15	·1166					
9. 39	28. 30	10. 37	·1174					
9. 50	22. 30	10. 50	·1155					
10. 7	32. 45	11. 0	·1148					
10. 15	28. 30	11. 15	·1154					
10. 29	31. 0	11. 30	·1147					
10. 55	24. 10	11. 43	·1156					
11. 31	21. 30	11. 55	·1150					
12. 21	27. 30		***					
12. 39	26. 40	13. 20	·1150					
	***	14. 7	·1158					
13. 24	26. 30	15. 0	·1152					
13. 45	27. 0	15. 26	·1160					
14. 21	30. 0		***					
15. 10	29. 30	16. 55	·1163					
15. 26	26. 30		***					
16. 12	22. 30	17. 40	·1140					
16. 21	24. 45		***					
16. 51	21. 50	18. 39	·1138					
17. 3	23. 40	19. 54	·1151					
17. 28	22. 0		***					
17. 33	24. 30	21. 38	·1150					
17. 43	22. 40		***					
17. 49	25. 15	22. 40	·1117					
17. 57	24. 10	23. 0	·1118					
	***							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 4		June 4				June 5		
h m	° ′ ″	h m		h m		h m	°	°
18. 41	21. 26. 30	23. 15	·1106			1. 0	65 ·5	67 ·0
	***		(†)			3. 0	67 ·4	68 ·6
19. 29	24. 25					9. 0	69 ·5	71 ·2
20. 12	24. 0					22. 15	62 ·4	64 ·4
20. 30	26. 20							
20. 52	25. 30							
20. 57	26. 20							
21. 5	25. 30							
21. 26	22. 0							
21. 38	21. 55							
23. 19	35. 50							
	(†)							
June 5		June 5		June 5		June 5		
	(†)		(†)		(†)			
1. 0	21. 34. 36*	1. 0	·1102*	1. 0	·02184*			
3. 0	34. 27*	3. 0	·1101*	3. 0	·01998*			
5. 49	30. 0	5. 55	·1124	5. 45	·01766			
6. 9	22. 30	6. 15	·1151	6. 12	·01817			
6. 30	28. 30	6. 26	·1140	6. 52	·01777			
7. 21	29. 20		***	10. 30	·01710			
7. 52	25. 20	7. 0	·1131	12. 22	·01770			
8. 21	26. 10	7. 30	·1141	15. 21	·02167			
8. 35	23. 30	7. 44	·1136	16. 45	·02475			
8. 42	25. 0	8. 0	·1138	16. 58	·02430			
9. 3	24. 50	8. 20	·1126	17. 10	·02367			
9. 30	31. 30	8. 40	·1129	17. 30	·02417			
9. 50	31. 50	9. 0	·1116	23. 59	·02340			
10. 0	30. 30	9. 44	·1113					
10. 15	33. 50	10. 15	·1123					
11. 2	30. 55	10. 45	·1112					
11. 20	32. 10	12. 0	·1121					
11. 43	30. 20	12. 25	·1114					
11. 54	30. 30	13. 0	·1120					
12. 30	28. 40		***					
12. 45	29. 25	13. 55	·1116					
13. 25	28. 10	15. 0	·1124					
13. 42	29. 35	15. 32	·1109					
14. 0	32. 0	16. 11	·1118					
14. 18	30. 0	17. 40	·1102					
14. 45	29. 10	18. 41	·1096					
15. 11	24. 30		***					
	***	20. 55	·1097					
16. 0	24. 25	21. 45	·1088					
16. 22	25. 30		***					
16. 45	24. 30	23. 59	·1100					
17. 2	25. 30							
17. 18	23. 45							
	***							
18. 12	28. 30							
18. 30	26. 30							
18. 43	26. 30							
	***							
19. 7	24. 30							
19. 15	26. 0							
19. 40	25. 0							
19. 44	26. 25							
19. 56	25. 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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 5								
h m	° ′ ″	h m		h m		h m	°	°
20. 11	21. 26. 0							
20. 22	24. 30							
20. 29	26. 30							
	***							
21. 0	26. 10							
21. 12	27. 10							
21. 57	27. 40							
22. 12	28. 40							
22. 45	30. 40							
23. 2	29. 45							
23. 22	31. 40							
23. 35	31. 10							
23. 59	31. 15							
June 6		June 6		June 6		June 6		
0. 0	21. 31. 15	0. 0	·1100	0. 0	·02340	9. 15	68 ·4	70 ·0
0. 40	31. 50		***	1. 36	·02208	21. 0	60 ·3	62 ·0
0. 44	33. 0	0. 45	·1108	3. 45	·01737			
1. 4	32. 30	1. 2	·1102	5. 12	·01760			
1. 43	34. 55	1. 17	·1102	8. 30	·01723			
2. 13	33. 20	1. 42	·1118	9. 30	·01738			
3. 14	33. 30	1. 55	·1103	13. 7	·02178			
3. 37	32. 40	2. 15	·1100	14. 13	·02400			
3. 44	33. 40	3. 40	·1104	14. 26	·02357			
4. 39	30. 40	3. 47	·1117		***			
	***	4. 1	·1108	21. 26	·02360			
5. 45	30. 20	4. 52	·1122	23. 59	·02196			
6. 0	29. 30	5. 10	·1116					
6. 45	28. 40		***					
7. 11	29. 30	6. 25	·1118					
8. 7	28. 30	6. 55	·1124					
8. 15	29. 25	7. 22	·1124					
8. 30	27. 30		***					
8. 40	28. 20	8. 10	·1126					
8. 56	26. 30	8. 33	·1130					
9. 15	27. 0	8. 42	·1125					
9. 33	24. 55	9. 3	·1130					
9. 42	27. 30	9. 15	·1124					
10. 6	24. 20	9. 33	·1132					
10. 15	24. 30	9. 45	·1116					
10. 31	21. 30	10. 2	·1118					
10. 40	23. 30	10. 20	·1110					
10. 50	22. 50	10. 45	·1117					
11. 15	24. 30	11. 10	·1108					
11. 29	27. 25		***					
11. 43	27. 10	12. 17	·1109					
11. 58	29. 0	12. 51	·1122					
12. 33	30. 0	13. 15	·1116					
12. 40	34. 45	13. 40	·1126					
13. 22	29. 45	14. 17	·1128					
13. 55	28. 10	15. 1	·1110					
14. 11	29. 30	15. 40	·1105					
14. 27	26. 30	16. 30:	·1118					
14. 55	26. 0	17. 34	·1118					
15. 15	29. 20	17. 45	·1108					
15. 31	29. 20	19. 0	·1114					
15. 51	30. 45		***					
16. 7	29. 20	20. 15	·1096					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 6		June 6						
h m	° ′ ″	h m		h m		h m	°	°
16. 15	21. 29. 30	21. 20	·1107					
16. 22	28. 10	22. 30	·1106					
16. 51	26. 30	22. 55	·1094					
17. 6	26. 30	23. 59	·1105					
17. 11	27. 30							
17. 24	27. 35							
17. 40	26. 0							
	***							
18. 51	25. 10							
18. 58	26. 30							
19. 25	26. 30							
19. 32	27. 30							
19. 44	26. 40							
19. 59	29. 50							
20. 11	28. 35							
20. 15	30. 0							
20. 34	27. 30							
21. 18	28. 0							
23. 0	33. 30							
23. 50	33. 30							
23. 59	34. 0							
June 7		June 7		June 7		June 7		
0. 0	21. 34. 0	0. 0	·1105	0. 0	·02196	1. 0	64 ·4	66 ·2
1. 18	33. 30	0. 47	·1114	2. 16	·01666	3. 0	67 ·0	68 ·2
1. 33	35. 0	1. 25	·1118	3. 13	·01770	9. 0	67 ·0	69 ·0
2. 27	34. 20	1. 37	·1128	8. 22	·01693	21. 0	63 ·5	63 ·7
2. 41	35. 10	2. 8	·1126	10. 45	·01820			
3. 0	33. 25	2. 25	·1106	11. 25	·01864			
3. 14	33. 40	3. 0	·1106	13. 30	·02247			
3. 26	32. 30	3. 27	·1136		(†)			
3. 44	33. 20	4. 0	·1106	17. 24	·02373			
4. 13	30. 45	4. 55	·1124	19. 40	·02384			
5. 30	32. 30	5. 30	·1130	22. 11	·02067			
6. 5	28. 10	5. 52	·1120	23. 28	·01758			
6. 33	30. 20	6. 10	·1130		(†)			
7. 22	29. 40		***					
7. 52	22. 30	6. 55	·1131					
8. 15	28. 45	7. 4	·1139					
8. 36	27. 20	7. 22	·1125					
8. 50	30. 10	8. 0	·1154					
9. 7	27. 30	8. 58	·1116					
9. 45	27. 30	9. 30	·1121					
10. 12	30. 20	10. 0	·1122					
10. 30	26. 30	10. 25	·1126					
10. 41	26. 30	10. 40	·1146					
10. 52	22. 25	10. 48	·1135					
11. 15	30. 0	11. 0	·1143					
11. 26	26. 0	11. 14	·1142					
11. 41	25. 30	11. 22	·1128					
11. 57	30. 0	11. 40	·1122					
12. 26	23. 0	11. 55	·1132					
13. 13	31. 30	12. 14	·1110					
13. 39	28. 30	12. 25	·1118					
13. 54	27. 30	12. 47	·1107					
14. 7	28. 15	13. 13	·1124					
14. 13	26. 50		***					
14. 30	30. 0	14. 12	·1113					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 7		June 7						
h m	° ′	h m		h m		h m	°	°
14. 42	21. 29. 45	14. 30	·1122					
14. 57	32. 0	14. 39	·1114					
15. 30	30. 0	15. 15	·1121					
15. 54	28. 0		***					
	***	16. 0	·1117					
17. 11	29. 20		***					
17. 22	28. 0	16. 42	·1123					
17. 52	27. 10	17. 17	·1110					
	***	17. 55	·1114					
17. 56	29. 10		***					
	***	19. 4	·1096					
18. 36	24. 30		***					
18. 42	27. 10	19. 55	·1103					
	***	20. 25	·1101					
19. 21	26. 0		***					
	***	21. 30:	·1076					
19. 52	25. 50		***					
20. 6	23. 40	22. 25	·1081					
	***		***					
20. 30	25. 45	23. 15	·1089					
	***	23. 40	·1100					
21. 28	26. 30		(†)					
21. 40	28. 45							
21. 45	28. 30							
21. 55	30. 55							
22. 39	30. 0							
22. 42	31. 20,							
22. 50	30. 0							
23. 12	32. 40							
23. 29	31. 40							
23. 44	32. 40							
23. 59	32. 30							
June 8		June 8		June 8		June 8		
0. 0	21. 32. 30		(†)	0. 0	·01717	1. 0	69 ·0	70 ·6
0. 23	33. 0	1. 20	·1095	2. 57	·01893	3. 0	71 ·6	73 ·5
1. 0	33. 50		***		·01995	9. 0	74 ·0	75 ·0
1. 12	32. 55	4. 45	·1095	6. 6	·01990	21. 0	69 ·8	68 ·8
1. 19	34. 0	5. 24	·1102	7. 40	·01830			
1. 50	34. 40	6. 5	·1126	9. 58	·01963			
1. 57	34. 0	6. 45	·1102	13. 19	·02604			
2. 7	34. 40	7. 6	·1110	20. 7	·02525			
2. 50	34. 30	7. 35	·1106	21. 27	·02380			
3. 14	32. 10		***	23. 36	·01927			
3. 29	33. 20	9. 25	·1106					
3. 52	31. 40	9. 55	·1109					
4. 30	31. 45	10. 10	·1113					
4. 45	30. 40		***					
5. 8	30. 45	11. 10	·1106					
5. 17	29. 20		***					
5. 36	29. 20	14. 5	·1102					
5. 51	26. 10	15. 47	·1118					
6. 18	28. 20	16. 40	·1103					
6. 52	27. 35	18. 14	·1112					
7. 11	28. 30	18. 45	·1098					
7. 38	28. 0	19. 40	·1094					
8. 7	28. 30	20. 6	·1080					
8. 50	26. 50	21. 19	·1085					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 8		June 8						
h m	° ′ ″	h m		h m		h m	°	°
9. 52	21. 31. 10	22. 5	·1092					
10. 18	28. 20	23. 27	·1088					
10. 42	27. 30	23. 59	·1094					
11. 18	28. 45							
11. 43	28. 30							
13. 15	31. 0							
13. 40	30. 30							
14. 12	31. 0							
14. 16	31. 25							
14. 52	29. 50							
15. 17	29. 50							
15. 30	29. 0							
16. 12	29. 10							
16. 22	28. 0							
	***							
17. 39	28. 30							
18. 30	25. 0							
19. 15	24. 0							
20. 14	26. 30							
	***							
21. 40	28. 0							
21. 50	27. 0							
22. 0	29. 0							
22. 26	29. 30							
23. 4	33. 0							
23. 45	33. 0							
23. 59	34. 0							
June 9		June 9		June 9		June 9		
0. 0	21. 34. 0	0. 0	·1094	1. 0	·01739*	1. 0	72 ·5	74 ·0
0. 6	34. 0	0. 15	·1088	3. 0	·01836*	3. 0	75 ·5	76 ·7
	(†)	0. 38	·1096	9. 0	·01904*	9. 0	76 ·5	78 ·0
1. 0	33. 43*	0. 58	·1090	21. 0	·02477*	21. 0	66 ·0	67 ·6
2. 34	34. 10	1. 42	·1100					
3. 44	33. 45		***					
4. 30	31. 10	2. 45	·1098					
4. 56	30. 30	3. 5	·1104					
5. 30	28. 0	3. 30	·1103					
7. 19	28. 30	4. 30	·1106					
8. 21	27. 25	5. 8	·1095					
8. 40	24. 20	5. 32	·1106					
9. 0	24. 0	6. 13	·1104					
9. 20	27. 30	6. 21	·1094					
9. 24	27. 0	6. 47	·1092					
9. 41	29. 35	7. 7	·1097					
9. 51	29. 10	7. 30	·1092					
	(†)	8. 23	·1096					
13. 45	28. 10	8. 30	·1101					
14. 0	28. 20	8. 42	·1102					
14. 42	26. 30	8. 55	·1109					
16. 30	28. 0	9. 9	·1104					
16. 52	28. 45	9. 17	·1105					
18. 25	26. 20	9. 36	·1100					
18. 52	26. 30		***					
19. 11	26. 0	12. 40	·1100					
19. 33	24. 20	14. 30	·1109					
21. 48	24. 0		(†)					

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

June 9. There was no Photographic Trace for the Vertical Force, owing to a failure in the paper.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 9 h m 22. 12	° ′ ″ 21. 25. 0 (†)	h m 21. 0	·1111*	h m		h m	°	°
June10		June10		June10		June10		
0. 0	21. 30. 40	0. 8	·1099	0. 15	·02396	1. 0	67 ·8	69 ·6
1. 11	31. 10	0. 45	·1093	1. 10	·02380	3. 0	71 ·0	72 ·3
2. 6	33. 0	1. 25	·1097	2. 7	·02276	9. 5	73 ·0	74 ·2
3. 10	31. 45	2. 5	·1088	4. 13	·01807	21. 0	66 ·5	67 ·2
3. 39	32. 0	2. 15	·1085	6. 15	·01824			
5. 19	31. 10	2. 25	·1075	9. 14	·01780			
6. 8	29. 30	2. 45	·1074	11. 12	·01987			
7. 36	29. 0	3. 32	·1081	14. 11	·02610			
9. 29	27. 30	3. 47	·1078		·02547			
10. 42	29. 30	4. 55	·1076	20. 43	·02496			
11. 0	28. 35	5. 25	·1084	21. 45	·02440			
12. 30	28. 10	5. 55	·1084	23. 59	·02070			
13. 39	26. 45	6. 45	·1096					
15. 22	27. 55		***					
15. 52	26. 50	10. 7	·1090					
16. 43	26. 45	13. 40	·1089					
19. 33	22. 20		***					
20. 10	22. 30	16. 10	·1094					
21. 37	26. 0	19. 0	·1092					
23. 59	35. 50	21. 0	·1071					
		21. 55	·1070					
			***					
		23. 59	·1073					
June11		June11		June11		June11		
0. 0	21. 35. 50	0. 0	·1073	0. 0	·02070	1. 0	71 ·0	72 ·0
1. 56	37. 0	1. 30	·1084	1. 10	·01747	3. 0	73 ·2	74 ·4
2. 11	36. 20	2. 11	·1071	4. 20:	·01864	9. 0	75 ·2	76 ·0
2. 18	36. 40	2. 25	·1078	8. 15	·01810	21. 0	67 ·7	69 ·4
2. 40	34. 55	2. 42	·1074	10. 21	·01874			
5. 36	29. 10	3. 31	·1083	14. 21	·02656			
7. 0	28. 30	4. 0	·1078		·02630			
9. 28	28. 30		***	20. 56	·02618			
9. 42	25. 30	4. 58	·1078	22. 21	·02573			
10. 0	26. 0	5. 10	·1082	23. 22	02480			
10. 14	27. 10	5. 29	·1077		(†)			
10. 52	26. 30	6. 30	·1089					
11. 57	29. 45	7. 14	·1086					
12. 28	28. 30	8. 45	·1090					
13. 31	29. 10	9. 20	·1086					
13. 45	28. 40	9. 55	·1101					
13. 54	29. 30	10. 25	·1089					
14. 22	27. 10	11. 45	·1098					
15. 12	29. 30	13. 15	·1096					
16. 0	31. 40	13. 55	·1104					
16. 45	27. 0	14. 39	·1101					
17. 43	24. 30	15. 15	·1102					
	***	15. 29	·1097					
19. 44	22. 30	15. 53	·1097					
19. 55	23. 0	16. 10	·1103					
20. 30	22. 10	17. 13	·1106					
21. 29	28. 0	18. 0	·1096					
23. 40	33. 50		***					
23. 59	37. 20	20. 50	·1095					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	June11 h m 21. 6	·1088	h m		h m	°	°
			***					
		22. 30	·1080					
		23. 10	·1080					
		23. 30	·1085					
			(†)					
June12		June12		June12		June12		
0. 0	21. 37. 20	0. 0	·1100		(†)	1. 0	72 ·0	73 ·0
0. 15	36. 45	1. 45	·1102	1. 0	·02189*	3. 0	74 ·0	74 ·8
0. 51	38. 20	2. 30	·1109	1. 36	·02050	9. 0	74 ·5	75 ·0
1. 10	37. 30	3. 0	·1109	2. 40	·01783	22. 15	73 ·0	74 ·0
1. 25	38. 5	3. 40	·1121	5. 52:	·01866			
1. 51	37. 40	4. 22	·1108	9. 22	·01837			
2. 58	38. 10		***	11. 0	·02007			
3. 39	37. 40	5. 1	·1108	14. 17	·02666			
4. 21	35. 0	5. 25	·1118		·02595			
4. 52	35. 0	5. 55	·1098	14. 22	·02600			
5. 2	32. 20	6. 25	·1102	19. 28	·02555			
5. 22	32. 0	6. 50	·1117	20. 15	·02498			
5. 26	33. 0		***	21. 45	·02407			
5. 54	28. 25	8. 10	·1106	23. 59	·02036			
6. 39	27. 45	8. 55	·1108					
6. 57	28. 40	10. 10	·1106					
7. 26	26. 10	12. 20	·1108					
8. 10	27. 55	12. 55	·1116					
8. 24	27. 20	13. 15	·1128					
10. 58	29. 20	13. 40	·1119					
11. 12	28. 50	14. 11	·1128					
12. 15	28. 30	15. 0	·1117					
12. 55	32. 10	15. 45:	·1124					
13. 20	27. 10		***					
13. 38	28. 40	19. 0	·1117					
14. 30	23. 30		***					
15. 15	27. 0	21. 5	·1112					
15. 52	24. 25	21. 50	·1098					
16. 15	24. 10	22. 45	·1090					
16. 32	27. 20	23. 0	·1083					
16. 52	24. 25		***					
17. 13	26. 55	23. 59	·1089					
17. 39	25. 35							
17. 47	29. 40							
18. 42	26. 0							
18. 54	26. 45							
19. 10	25. 20							
19. 15	26. 45							
19. 30	25. 40							
19. 43	28. 0							
20. 0	27. 20							
20. 30	28. 20							
20. 43	27. 25							
21. 35	29. 50							
22. 19	33. 20							
22. 24	32. 50							
22. 40	32. 45							
23. 27	34. 30							
23. 59	33. 40							

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
0. 0	21. 33. 40	0. 0	·1089	0. 0	·02036	8. 0	76·4	78·0
0. 56	32. 30		(†)	0. 55	·01807	21 ·0	70·6	71·8
2. 10	33. 45	3. 15	·1106	4. 22	·01916			
2. 43	32. 40		***	8. 26	·01847			
3. 52	31. 35	5. 0	·1126	11. 41:	·02065			
4. 39	28. 40	5. 50	·1121	15. 13	{ ·02716			
6. 39	28. 45	6. 5	·1110		{ ·02663			
6. 51	29. 30		***	20. 36	·02696			
7. 39	26. 10	7. 0	·1124	23. 59	·02347			
7. 45	27. 0	7. 25	·1114					
8. 30	24. 30	7. 42	·1123					
9. 0	26. 30	8. 0	·1114					
9. 27	26. 10	8. 47	·1117					
9. 52	26. 40	9. 20	·1112					
10. 36	26. 0		***					
11. 7	28. 5	10. 47	·1118					
12. 21	28. 40	11. 10	·1114					
13. 0	27. 50	13. 26	·1128					
13. 26	28. 40	15. 25	·1131					
13. 44	27. 30	16. 52	·1142					
13. 51	27. 50	18. 30	·1127					
14. 5	27. 10	21. 30	·1112					
15. 54	28. 20	22. 7	·1112					
16. 15	27. 25	23. 15	·1100					
16. 39	28. 0		(†)					
17. 10	27. 30							
17. 43	25. 0							
18. 9	24. 20							
18. 39	22. 15							
18. 56	24. 0							
19. 21	24. 55							
19. 43	27. 0							
20. 16	26. 0							
21. 3	26. 55							
21. 45	26. 50							
23. 12	32. 0							
23. 59	35. 20							
June 14		June 14		June 14		June 14		
0. 0	21. 35. 25		(†)	0. 0	·02347	1. 0	76·7	77·0
0. 34	36. 50	1. 0	·1107*	1. 48	·02022	3. 0	77·6	79·5
		1. 7	·1102		{ ·01859	9. 0	81·0	82·0
1. 0	34. 20*	3. 45	·1102	2. 30	{ ·02300	21. 0	74·2	73·7
1. 28	34. 30	4. 55	·1108	3. 38	·02038			
2. 5	35. 0	5. 15	·1103	5. 45	·01927			
3. 40	32. 0	5. 59	·1103	5. 52	·01976			
5. 36	28. 30	6. 45	·1109	6. 40	·01907			
6. 12	28. 50	7. 40	·1099	7. 55	·01860			
6. 51	28. 20	8. 15	·1090	10. 24	·02050			
8. 22	27. 0	9. 14	·1105	13. 18	·02683			
9. 40	28. 45	9. 38	·1120	13. 29	·02650			
10. 15	26. 40		***	18. 51	·02583			
10. 40	27. 15	10. 25	·1126	20. 38	·02626			
11. 15	24. 25	10. 54	·1114	22. 36	{ ·02364			
11. 39	24. 0	12. 6	·1106		{ ·02283			
11. 59	27. 10	13. 0	·1112	23. 59	·02320			
13. 26	28. 35	14. 20	·1116					
14. 30	28. 40	15. 0	·1111					
16. 12:	30. 20	16. 10	·1120					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 14		June 14				June 15		
h m	° ′ ″	h m		h m		h m	°	°
18. 11	21. 25. 0	18. 2	·1113					
18. 44	25. 50	19. 0	·1095					
19. 43	25. 20	19. 30	·1094					
21. 40	29. 0	20. 0	·1086					
22. 12	29. 0	20. 54	·1082					
23. 59	32. 15	22. 45	·1086					
		23. 24	·1085					
		23. 59	·1081					
June 15		June 15		June 15		June 15		
0. 0	21. 32. 15	0. 0	·1081	0. 0	·02320	1. 0	80·6	80·8
0. 36	33. 30	0. 40	·1087	1. 0	·01887	3. 0	83·0	83·0
2. 12	33. 30	1. 0	·1085	1. 52	·01913	9. 0	82·3	83·5
3. 7	31. 50	2. 10	·1104	4. 30	·01847	21. 4	76·0	74·6
3. 30	32. 10	4. 14	·1104	8. 51	·02220			
4. 12	31. 0	5. 0	·1108	10. 50	{ ·02650			
4. 42	30. 40		***		{ ·02590			
6. 22	27. 0	6. 7	·1098	15. 45	·02507			
7. 40	27. 25		***	20. 11	·02520			
7. 52	26. 30	7. 0	·1102	23. 59	·01886			
8. 52	28. 35		***					
13. 29	29. 0	8. 5	·1118					
14. 31	28. 5	8. 28	·1114					
15. 18	30. 0		***					
17. 28	25. 30	10. 10	·1122					
18. 45	24. 35		***					
19. 58	25. 25	11. 40	·1120					
20. 30	26. 30		***					
21. 5	26. 0	15. 12	·1124					
22. 10	28. 30	16. 25	·1131					
22. 40	30. 25	17. 15	·1126					
22. 47	30. 15	18. 6	·1129					
23. 24	32. 0	19. 0	·1108					
23. 59	33. 10	19. 26	·1112					
		20. 0	·1097					
		20. 55	·1086					
		23. 15	·1071					
		23. 33	·1075					
		23. 50	·1068					
		23. 59	·1070					
June 16		June 16		June 16		June 16		
0. 0	21. 33. 10	0. 0	·1070	0. 0	·01886	1. 0	81·0	82·3
0. 10	33. 25	0. 13	·1072	0. 27	·01730	3. 0	83·5	85·0
0. 45	32. 15	0. 30	·1069	1. 15	·01806	9. 0	85·0	85·5
1. 54	32. 30		***	3. 14	{ ·01833	21. 0	73·3	74·8
2. 40	31. 30	1. 25	·1083		{ ·02100			
2. 51	32. 0		***	6. 15	·01850			
4. 9	30. 0	3. 45	·1078	6. 52	·01893			
5. 13	29. 40	4. 6	·1090	7. 53	·01833			
7. 7	27. 35	4. 40	·1090	9. 39	·01987			
7. 22	28. 10	4. 50	·1138	11. 33	·02323			
9. 12	27. 30		***	13. 0	·02350			
9. 33	26. 10	6. 6	·1146	14. 57	·02327			
9. 59	25. 20	6. 28	·1155	21. 13	·02330			
10. 22	27. 0		***	23. 0	·02287			
	***	8. 10	·1156		(†)			
12. 58	27. 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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June16		June16						
h m	° ′ ″	h m		h m		h m	°	°
14. 39	21. 26. 10	10. 0	·1144					
14. 53	23. 30	10. 7	·1148					
15. 40	28. 30	10. 14	·1142					
15. 56	28. 10	10. 20	·1148					
16. 47	31. 30	10. 30	·1142					
17. 7	30. 0	10. 38	·1150					
17. 21	31. 0		***					
17. 55	28. 30	11. 39	·1148					
18. 21	27. 0	11. 45	·1140					
18. 30	25. 0	11. 52	·1148					
18. 38	25. 30	12. 40	·1145					
19. 6	23. 30	12. 55	·1151					
19. 22	23. 40	13. 15	·1151					
19. 41	23. 10	13. 45	·1156					
20. 15	25. 50	14. 38	·1155					
20. 28	24. 20	14. 54	·1145					
21. 12	28. 30	15. 15	·1145					
21. 29	28. 25	15. 30	·1150					
22. 13	29. 30	16. 23	·1144					
23. 0	35. 55		***					
23. 40	35. 40	17. 40:	·1152					
23. 59	34. 55		***					
		19. 50	·1138					
		20. 30	·1132					
		23. 59	·1124					
June17		June17		June17		June17		
0. 0	21. 34. 55	0. 0	·1124		(†)	1. 0	74 ·5	75 ·8
0. 43	33. 0	0. 35	·1114	1. 0	·02269*	3. 0	75 ·4	77 ·0
1. 5	34. 0	1. 0	·1112	1. 43	·02254	9. 18	73 ·5	74 ·5
1. 36	33. 20	1. 50	·1125	5. 0	·02222	21. 0	62 ·0	64 ·0
2. 19	33. 40		***	9. 13	{·02396 ·02343			
3. 0	31. 15	2. 54	·1124					
3. 14	31. 50	3. 10	·1130	12. 45	·02273			
3. 39	30. 0	3. 25	·1124	13. 13	·02239			
4. 53	29. 20	3. 51	·1134	19. 30	·02317			
5. 52	31. 0	4. 10	·1128	21. 52	·02307			
6. 11	30. 30	4. 45	·1140	23. 21	·02233			
6. 23	30. 50		***	23. 59	·02210			
6. 39	29. 35	5. 10	·1135					
6. 52	30. 10	5. 18	·1146					
7. 44	30. 0	5. 25	·1140					
8. 7	28. 30	5. 33	·1148					
8. 22	29. 20	6. 7	·1129					
	(†)	6. 15	·1134					
9. 18	27. 13*	6. 25	·1131					
10. 52	29. 15	6. 40	·1145					
11. 15	26. 20	7. 10	·1135					
13. 52	27. 0	7. 40	·1140					
14. 39	29. 40	8. 12	·1124					
15. 15	27. 0	8. 29	·1138					
16. 12	29. 40	9. 27	·1134					
17. 0	30. 0		***					
17. 40	28. 20	12. 32	·1144					
19. 54	28. 35	12. 55	·1157					
20. 30	30. 0	13. 26	·1148					
21. 12	33. 0	14. 15	·1154					
	(†)	16. 18	·1155					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June17		June17						
h m	° ′ ″	h m		h m		h m	°	°
23. 40	21. 33. 45	17. 14	·1159					
23. 50	34. 0	18. 40	·1151					
23. 59	33. 0	20. 7	·1153					
		21. 15	·1146					
		23. 59	·1131					
June18		June18		June18		June18		
0. 0	21. 33. 0	0. 0	·1131	0. 0	·02210	1. 0	64 ·0	66 ·0
1. 45	34. 30	0. 15	·1134	4. 45	·01639	3. 0	65 ·5	67 ·0
2. 40	33. 20	0. 29	·1125	8. 55	·01437	9. 0	66 ·0	67 ·5
3. 39	32. 40	0. 40	·1127	12. 52	·01706	21. 0	63 ·7	63 ·4
4. 39	30. 40	1. 15	·1116	16. 29	·02027			
5. 29	30. 30	1. 30	·1116	20. 15:	·02180			
7. 26	27. 45	1. 55	·1114	22. 53	·01887			
8. 25	29. 20	4. 10	·1141		(†)			
9. 14	29. 20	4. 55	·1148					
9. 37	28. 30	5. 10	·1142					
9. 42	28. 50	5. 19	·1143					
10. 3	28. 0	5. 35	·1140					
10. 15	28. 30	5. 50	·1144					
12. 47	27. 30	6. 55	·1134					
14. 52	27. 35	7. 28	·1142					
15. 1	28. 45	8. 25	·1141					
15. 39	26. 5		***					
15. 52	26. 20	11. 0	·1149					
16. 22	30. 40	11. 20	·1147					
16. 29	31. 50		***					
16. 38	31. 25	15. 0	·1152					
16. 50	35. 0	16. 0	·1147					
17. 15	35. 0	16. 55	·1149					
18. 10	27. 0	17. 17	·1161					
18. 59	23. 30	18. 14	·1156					
19. 14	23. 40	19. 25	·1133					
19. 45	21. 30	20. 0	·1130					
	***		***					
20. 42	21. 30	21. 55	·1100					
21. 51	24. 30	22. 25	·1104					
21. 59	24. 0	22. 45	·1093					
22. 12	25. 30	23. 59	·1097					
22. 20	25. 25							
22. 57	29. 25							
23. 45	31. 40							
23. 59	30. 50							
June19		June19		June19		June19		
0. 0	21. 30. 50	0. 0	·1097		(†)	1. 0	68 ·5	69 ·0
0. 39	33. 0	0. 15	·1096	1. 0	·01427*	3. 0	71 ·0	71 ·0
1. 57	33. 40	1. 0	·1076	2. 42	·01480	9. 0	72 ·2	73 ·4
2. 15	35. 10	2. 17	·1106	3. 42	·01520	22. 36	67 ·3	67 ·5
3. 12	34. 30	2. 51	·1090	6. 43	·01520			
3. 29	35. 20	3. 15	·1094	8. 30:	·01472			
4. 15	34. 10	3. 55	·1120	12. 26	·01822			
4. 51	30. 20	4. 25	·1105	12. 43	·01819			
5. 40	32. 45	4. 50	·1119	15. 7	{·02260 ·02190			
7. 10	30. 25	5. 15	·1101					
7. 30	31. 0	5. 42	·1104	18. 39	·02300			
8. 10	29. 50	6. 0	·1115	20. 43	·02308			
8. 45	30. 20	6. 15	·1108	23. 59	·01957			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 19		June 19						
h m	° ′ ″	h m		h m		h m	°	°
9. 14	21. 29. 20	7. 0	·1120					
9. 30	30. 15	7. 35	·1110					
9. 52	28. 45	8. 10	·1114					
10. 10	29. 40	8. 30	·1124					
10. 22	29. 10	9. 1	·1115					
10. 39	29. 30	9. 20	·1119					
10. 51	28. 45		***					
11. 22	28. 0	10. 33	·1126					
12. 6	33. 0	11. 30	·1121					
12. 40	28. 0	12. 7	·1147					
12. 49	28. 35	12. 42	·1118					
13. 21	24. 0	13. 0	·1118					
13. 41	26. 0	14. 0	·1134					
13. 51	25. 45	14. 31	·1131					
14. 11	29. 10	14. 44	·1124					
14. 21	29. 10	15. 6	·1128					
14. 30	32. 5	15. 28	·1121					
14. 36	32. 0	16. 30	·1132					
14. 40	32. 55		***					
15. 12	25. 0	17. 40	·1132					
15. 24	24. 30	18. 10	·1142					
16. 11	26. 25	19. 0	·1136					
17. 0	23. 0	20. 0	·1120					
17. 4	23. 50	20. 39	·1120					
17. 50	20. 30	22. 45	·1086,					
17. 54	21. 50	22. 56	·1097					
18. 11	24. 0	23. 20	·1096					
18. 27	25. 0	23. 30	·1092					
18. 43	23. 35	23. 59	·1114					
19. 3	26. 0							
19. 43	27. 50							
20. 25	25. 30							
20. 51	28. 20							
21. 21	28. 0							
21. 30	29. 20							
22. 28	34. 0							
22. 47	33. 30							
23. 13	34. 30							
23. 26	37. 0							
23. 59	33. 30							
June 20		June 20		June 20		June 20		
0. 0	21. 33. 25	0. 0	·1114	0. 0	·01957	8. 2	72 ·2	72 ·7
0. 12	33. 0	0. 15	·1130	1. 43	·01527	21. 0	68 ·0	67 ·0
0. 24	34. 30	0. 38	·1120	3. 12	·01596			
0. 55	36. 0	1. 35	·1116	8. 0	·01520			
1. 21	38. 30	1. 44	·1102	9. 52	·01595			
1. 40	37. 50	1. 58	·1114	11. 28	·01707			
1. 45	35. 30	2. 11	·1113	14. 15	·02100			
1. 51	36. 20	2. 31	·1104	15. 50	{ ·02422			
2. 7	33. 50	2. 55	·1124		{ ·02356			
2. 22	33. 45	3. 4	·1115	19. 53	·02350			
2. 41	32. 0	3. 15	·1122	20. 0	·02315			
2. 52	32. 30	3. 28	·1114	20. 45	·02337			
3. 7	31. 40	3. 57	·1131	23. 59	·01897			
3. 15	32. 45	4. 25	·1129					
3. 31	32. 0	4. 52	·1132					
	***	5. 15	·1123					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 20		June 20						
h m	° ′ ″	h m		h m		h m	°	°
3. 51	21. 33. 20	5. 45	·1131					
4. 40	32. 45	6. 25	·1129					
4. 43	32. 20	6. 51	·1132					
5. 10	30. 5	7. 30	·1127					
8. 11	29. 30	8. 14	·1131					
8. 24	30. 5	9. 25	·1130					
9. 25	29. 40	9. 40	·1144					
9. 40	23. 0	10. 0	·1129					
9. 51	29. 0	10. 41	·1129					
10. 11	28. 45	11. 24	·1140					
10. 53	31. 40	11. 55	·1130					
11. 50	25. 45		***					
12. 28	29. 30	13. 10	·1132					
12. 52	29. 0	13. 15	·1128					
13. 10	28. 0		***					
13. 27	28. 30	15. 15	·1122					
13. 43	28. 30	15. 45	·1124					
13. 57	30. 0	16. 15	·1131					
14. 36	28. 20	18. 15	·1126					
	***	18. 54	·1114					
15. 12	29. 30	19. 30	·1121					
15. 22	28. 40	23. 0	·1082					
15. 45	30. 20	23. 27	·1084					
16. 46	26. 20	23. 31	·1089					
16. 58	26. 30	23. 59	·1087					
17. 18	24. 30							
17. 40	24. 0							
17. 56	24. 30							
18. 15	24. 0							
19. 12	23. 30							
19. 38	25. 0							
20. 45	25. 30							
22. 12	28. 20							
23. 15	32. 0							
23. 59	32. 55							
June 21		June 21		June 21		June 21		
0. 0	21. 32. 55	0. 0	·1087	0. 0	·01897	1. 0	71 ·6	72 ·0
1. 18	34. 0	2. 5	·1090	1. 45	·01844	3. 0	74 ·0	74 ·8
2. 51	31. 20	2. 30	·1086	3. 0	·01873	9. 0	74 ·0	75 ·5
3. 51	30. 30	3. 45	·1090	4. 33	·01844	21. 0	67 ·9	68 ·4
4. 56	28. 20	4. 7	·1086	7. 26	·01840			
6. 14	28. 0	5. 0	·1098	9. 28	·02017			
	***	5. 39	·1099	12. 15	{ ·02577			
6. 50	28. 40	5. 45	·1118		{ ·02527			
	***	6. 15	·1118	18. 52	·02450			
8. 21	28. 10	6. 50	·1113	21. 0	·02452			
10. 0	29. 20		***	22. 9	·02356			
10. 39	28. 30	8. 42	·1112	23. 59	·01987			
11. 56	29. 20	9. 22	·1114					
13. 22	28. 35	10. 0	·1126					
14. 29	29. 20	11. 17	·1125					
14. 51	28. 30		***					
15. 51	27. 30	17. 20	·1142					
16. 46	28. 20	17. 56	·1155					
	***		***					
18. 55	22. 30	18. 15	·1154					
19. 31	23. 50	18. 48	·1148					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 21		June 21						
h m	° ′ ″	h m		h m		h m	°	°
19. 46	21. 22. 30	19. 22	·1149					
20. 11	26. 0	19. 54	·1142					
20. 41	26. 5	21. 17	·1131					
21. 21	27. 30	22. 6	·1129					
21. 58	28. 0	22. 25	·1123					
23. 25	33. 25	22. 45	·1128					
23. 30	34. 50	23. 59	·1118					
23. 59	34. 0							
June 22		June 22		June 22		June 22		
0. 0	21. 34. 0	0. 0	·1118	0. 0	·01987	1. 0	73·0	74·4
0. 30	33. 20	1. 5	·1118	0. 43	·01758	3. 0	76·0	77·6
1. 52	33. 40	2. 30	·1108	2. 14	·01843	9. 0	79·5	79·5
3. 59	30. 0	4. 0	·1121	4. 43	·01888	21. 0	69·0	70·4
4. 37	29. 40	4. 52	·1140	7. 39	·01858			
4. 51	30. 0	5. 35	·1114	8. 22	·01867			
5. 10	29. 0	5. 59	·1118	9. 34	·01984			
5. 22	29. 40	6. 15	·1114	12. 0	·02360			
5. 40	29. 30	6. 50	·1162	12. 22	·02387			
6. 0	29. 50		***	12. 56	{·02490 ·02465			
6. 37	29. 20	8. 26	·1156					
6. 54	29. 0	9. 25	·1160	14. 52	·02487			
7. 11	30. 50	9. 47	·1148	18. 43	·02450			
7. 45	29. 45		***	19. 13	·02413			
9. 21	31. 0	11. 2	·1154	20. 15	·02412			
9. 59	17. 0	11. 16	·1161	20. 58	·02453			
10. 22	25. 20	11. 38	·1152	23. 59	·02160			
10. 51	30. 40	12. 0	·1162					
11. 56	32. 50	12. 39	·1151					
12. 13	28. 30	12. 55	·1160					
12. 56	21. 50	13. 13	·1160					
13. 16	22. 20	13. 42	·1163					
13. 35	26. 15	14. 20	·1158					
13. 57	25. 40	14. 26	·1178					
14. 21	27. 20	14. 34	·1167					
14. 27	31. 50	15. 2	·1178					
14. 39	26. 55		***					
14. 56	24. 30	16. 55	·1171					
15. 1	26. 0	17. 15	·1158					
15. 12	23. 45	17. 30	·1162					
15. 16	24. 50	18. 10	·1098					
15. 21	23. 55	18. 25	·1076					
15. 26	25. 50	19. 25	·1170					
15. 36	24. 30	19. 44	·1162					
15. 45	22. 10	20. 9	·1132					
15. 57	23. 0	20. 45	·1148					
16. 13	22. 0	21. 32	·1136					
16. 29	23. 50	22. 0	·1118					
17. 12	24. 30	22. 30	·1108					
17. 40	31. 30	23. 0	·1100					
17. 45	33. 40	23. 30	·1112					
17. 51	33. 40	23. 59	·1106					
18. 11	32. 10							
18. 30	53. 20							
18. 47	45. 30							
18. 51	47. 0							
19. 14	40. 30							
19. 42	37. 55							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 22								
h m	° ′ ″	h m		h m		h m	°	°
19. 45	21. 40. 50							
20. 16	32. 30							
20. 38	28. 10							
20. 45	30. 30							
21. 10	28. 30							
21. 27	29. 30							
21. 40	27. 45							
22. 14	38. 40							
22. 25	36. 30							
22. 29	37. 0							
22. 51	34. 20							
22. 56	36. 30							
23. 21	36. 0							
23. 50	37. 55							
23. 59	38. 0							
June 23		June 23		June 23		June 23		
0. 0	21. 38. 0	0. 0	·1105	0. 0	·02160	1. 0	74·6	75·6
0. 29	37. 55	0. 35	·1110	1. 22	·01824	3. 0	76·5	77·6
0. 55	35. 40	0. 44	·1102	2. 28	·01847	9. 0	77·7	79·2
2. 0	34. 40	1. 17	·1126	4. 30	·02038	21. 0	68·6	71·5
2. 14	35. 20	1. 40	·1125	5. 15	·01994			
2. 30	34. 20	2. 10	·1138	6. 29	·02020			
2. 52	36. 40		(†)	7. 18	·01963			
3. 0	36. 50	3. 0	·1143*	7. 40	·01990			
3. 25	41. 40	5. 45	·1176	8. 13	·01938			
3. 36	39. 0	6. 15	·1155	9. 7	·01960			
3. 45	43. 20	6. 29	·1180	9. 43	·01877			
4. 12	17. 50	7. 10	·1177	10. 58	·01960			
5. 14	36. 50	7. 29	·1140	11. 51	·02074			
5. 20	36. 0		***	12. 15	·02046			
5. 45	39. 55	8. 25	·1122	14. 29	{·02537 ·02480			
6. 45	27. 0		***					
6. 51	27. 35	9. 9	·1125	15. 13	·02420			
7. 4	25. 0	9. 27	·1111	15. 29	·02440			
7. 11	26. 30	9. 43	·1110	15. 59	·02410			
7. 13	25. 10	9. 46	·1136	16. 28	·02437			
7. 17	26. 15	9. 47	·1132	17. 0	·02370			
7. 40	22. 10	10. 2	·1167	18. 7	·02417			
7. 48	24. 55	10. 25	·1136	21. 22	·02495			
8. 0	20. 30	10. 45	·1116	23. 59	·02528			
8. 13	24. 10	11. 0	·1086					
8. 29	14. 30	11. 11	·1097					
8. 39	22. 50	11. 39	·1103					
8. 48	22. 30	11. 58	·1133					
8. 56	29. 0	12. 10	·1097					
9. 2	27. 10	12. 26	·1113					
9. 21	37. 40	12. 41	·1102					
9. 56	1. 0	12. 55	·1124					
10. 40	29. 30	13. 14	·1114					
10. 45	28. 30	13. 31	·1134					
10. 55	32. 30	13. 48	·1122					
11. 4	23. 30	14. 12	·1116					
11. 7	32. 0	14. 41	·1126					
11. 15	27. 5	15. 9	·1098					
11. 21	30. 40	15. 27	·1119					
11. 53	18. 10	15. 59	·1092					
12. 11	21. 30	16. 30	·1132					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 23		June 23						
h m	° ′ ″	h m		h m		h m	°	°
12. 21	21. 16. 10	17. 26	·1124					
12. 24	16. 50	18. 5	·1108					
12. 28	16. 25	18. 25	·1098					
12. 40	23. 40	18. 57	·1106					
12. 53	20. 10	19. 12	·1114					
13. 20	25. 20		***					
13. 38	26. 0	19. 50	·1112					
14. 9	37. 20	20. 14	·1102					
14. 19	37. 30	20. 31	·1104					
14. 39	45. 10	20. 42	·1096					
15. 25	36. 0	20. 53	·1097					
15. 45	42. 0		(†)					
16. 10	33. 30	21. 0	·1083*					
16. 30	28. 45							
16. 40	29. 40							
16. 44	28. 10							
17. 10	34. 0							
17. 16	33. 45							
17. 38	37. 0							
17. 52	34. 30							
18. 0	37. 0							
18. 39	33. 50							
18. 50	35. 50							
19. 7	35. 20							
19. 43	38. 50							
19. 56	37. 20							
20. 3	37. 40							
20. 15	34. 30							
20. 26	33. 30							
	(†)							
21. 0	31. 14*							
23. 42	40. 30							
23. 59	38. 30							
June 24		June 24		June 24		June 24		
0. 0	21. 38. 30	0. 0	·1087	0. 0	·02528	1. 0	70 ·0	71 ·6
0. 26	37. 5	0. 30	·1088	1. 57	·02600	3. 0	71 ·4	72 ·5
0. 30	38. 20	1. 30	·1107		***	9. 0	68 ·8	71 ·0
	***	1. 40	·1103	4. 25	·02595	21. 0	64 ·2	64 ·0
1. 0	36. 40	2. 0	·1120	5. 42	·02516			
1. 10	37. 15	2. 24	·1118	6. 11	·02537			
1. 28	36. 45	2. 33	·1126	7. 30	·02407			
1. 43	34. 40	2. 59	·1101	9. 6	·02446			
1. 57	35. 30	3. 20	·1119	9. 43	{·02526			
	***	3. 37	·1140		{·02437			
2. 27	33. 35	3. 45	·1108	10. 37	·02417			
	***	3. 59	·1126	11. 21	·02313			
3. 26	32. 30	4. 0	·1120	11. 44	·02386			
3. 36	35. 30	4. 15	·1166	12. 12	·02324			
3. 46	33. 30	4. 26	·1110	13. 26	·02330			
3. 58	34. 30	4. 40	·1137	13. 30	·02300			
4. 9	38. 45	4. 45	·1122	13. 51	·02322			
4. 22	33. 20	5. 5	·1148	15. 43	·02364			
4. 34	36. 30	5. 12	·1136	17. 29	·02351			
4. 44	35. 0	5. 26	·1135	21. 10	·02437			
4. 50	37. 30	5. 39	·1144	23. 59	·02308			
4. 56	32. 30	5. 55	·1127					
5. 0	36. 15	6. 8	·1135					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 24		June 24						
h m	° ′ ″	h m		h m		h m	°	°
5. 26	21. 30. 40	6. 29	·1166					
5. 44	33. 30	6. 36	·1156					
5. 53	27. 0		***					
6. 4	27. 0	7. 3	·1176					
6. 13	22. 30	7. 16	·1162					
	***	7. 35	·1134					
6. 20	22. 30	7. 45	·1136					
6. 26	23. 50	7. 55	·1121					
6. 43	21. 25	8. 8	·1125					
6. 47	23. 0		***					
6. 52	21. 20	8. 42	·1115					
7. 0	23. 40		***					
7. 8	21. 40	9. 16	·1110					
7. 22	26. 40	9. 55	·1116					
7. 39	21. 30	10. 12	·1110					
7. 45	23. 30	10. 36	·1110					
7. 56	21. 30	11. 0	·1116					
8. 2	21. 30	11. 38	·1087					
8. 15	19. 20	12. 1	·1147					
8. 32	21. 30	12. 24	·1124					
9. 15	15. 50	12. 45	·1124					
9. 52	24. 55	13. 0	·1144					
10. 7	25. 30	13. 31	·1154					
10. 30	22. 0		***					
10. 40	23. 40	14. 34	·1156					
10. 55	19. 30	15. 16	·1120					
11. 11	27. 20	15. 45	·1136					
11. 14	26. 30	16. 11	·1136					
11. 27	21. 30	16. 30	·1144					
11. 43	22. 0	16. 55	·1140					
12. 0	29. 30		***					
12. 39	20. 20	17. 42	·1117					
13. 17	22. 30		***					
13. 40	24. 30	18. 26	·1124					
13. 52	22. 30	18. 48	·1102					
14. 7	21. 50	19. 7	·1096					
14. 22	23. 30	19. 40	·1125					
14. 33	23. 30	20. 2	·1110					
14. 56	30. 40	20. 51	·1098					
15. 30	37. 30	21. 30	·1094					
15. 40	36. 30	21. 39	·1087					
16. 16	37. 20	21. 46	·1094					
16. 51	32. 20		***					
16. 54	32. 30	22. 50	·1094					
17. 6	31. 0	23. 0	·1105					
17. 15	31. 30		***					
17. 40	36. 45	23. 59	·1108					
17. 51	35. 10							
18. 10	35. 10							
18. 22	33. 30							
18. 30	34. 35							
18. 52	34. 20							
19. 18	25. 0							
19. 22	28. 55							
19. 27	28. 45							
19. 39	30. 30							
19. 56	30. 40							
20. 29	34. 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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
20. 34	21. 34. 30							
21. 9	32. 40							
21. 32	32. 0							
21. 43	34. 20							
22. 5	32. 30							
22. 35	33. 0							
22. 58	28. 55							
23. 14	31. 0							
23. 20	30. 50							
23. 40	33. 30							
23. 45	33. 10							
23. 53	34. 30							
23. 59	34. 0							
June25		June25		June25		June25		
0. 0	21. 34. 0	0. 0	·1108	0. 0	·02308	1. 0	67 ·0	68 ·0
	***	0. 9	·1110	2. 58	·01707	3. 0	69 ·0	70 ·0
0. 36	32. 35	1. 17	·1125	5. 36	·01785	9. 0	72 ·0	73 ·0
1. 11	32. 25	1. 41	·1123	8. 13	·01737	21. 0	68 ·0	66 ·0
1. 57	34. 30	1. 55	·1127	10. 44:	·01780			
2. 13	34. 30		***	15. 29	{·02537			
2. 43	32. 30	2. 30	·1118		{·02466			
3. 4	32. 30		***	19. 29	·02430			
3. 22	31. 20	3. 47	·1117	20. 40	·02470			
4. 39	30. 40	4. 30	·1124	22. 10	·02400			
5. 13	27. 40	5. 24	·1143	23. 59	·02100			
6. 18	29. 30	6. 17	·1132					
7. 43	29. 45		***					
10. 9	26. 0	7. 5	·1139					
10. 28	27. 30	7. 40	·1132					
10. 45	26. 35	8. 0	·1136					
12. 0	29. 20		***					
12. 40	27. 55	8. 55	·1129					
15. 28	27. 30	10. 0	·1141					
15. 56	29. 45	11. 18	·1142					
16. 15	30. 0	12. 0	·1150					
16. 30	31. 40	13. 30	·1152					
16. 54	30. 30	15. 20	·1170					
17. 26	32. 55	15. 39	·1168					
17. 54	31. 30	16. 24	·1172					
18. 0	32. 30	17. 20	·1165					
18. 15	31. 30		***					
18. 22	32. 55	18. 54	·1127					
18. 38	32. 20	19. 40	·1147					
18. 58	34. 45	20. 8	·1142					
19. 36	32. 30	21. 0	·1146					
19. 47	32. 30		***					
20. 0	31. 10	23. 59	·1124					
20. 23	31. 15							
20. 40	29. 50							
21. 30	28. 30							
23. 2	31. 35							
23. 59	31. 40							
June26		June26		June26		June26		
0. 0	21. 31. 40	0. 0	·1123	0. 0	·02100	1. 0	72 ·6	73 ·0
	***	0. 30	·1117	1. 0	·01796	3. 0	75 ·4	76 ·6
1. 43	31. 45	0. 55	·1123	2. 14	·01879	9. 0	75 ·6	77 ·2

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June26		June26		June26		June26		
h m	° ′ ″	h m		h m		h m	°	°
2. 0	21. 32. 30	1. 30:	·1114	8. 22	·01818	22. 20	64 ·0	65 ·0
2. 28	31. 25		***	10. 14	·01940			
3. 48	31. 15	5. 14	·1154	14. 10	{·02597			
4. 13	30. 0	5. 48	·1156		{·02538			
4. 39	30. 5	6. 8	·1148	20. 22	·02480			
5. 12	28. 30	6. 31	·1158	23. 59	·02447			
5. 21	28. 55	7. 0	·1161					
5. 43	28. 10	7. 15	·1151					
5. 51	28. 30	8. 40	·1144					
6. 28	25. 30	10. 45	·1142					
6. 39	26. 20	12. 45	·1148					
6. 50	24. 30	13. 41	·1146					
8. 20	29. 45	14. 25	·1154					
9. 43	30. 0	15. 15	·1156					
11. 30	28. 50	16. 0	·1164					
11. 50	27. 45	17. 30:	·1166					
13. 13	25. 30	18. 50	·1152					
13. 53	28. 20	19. 25	·1154					
16. 4	26. 25	20. 4	·1142					
16. 43	23. 10	21. 0	·1147					
17. 4	22. 30	22. 26	·1142					
19. 15	24. 0	22. 45	·1147					
19. 40	23. 30	23. 59	·1154					
20. 7	26. 30							
21. 4	26. 30							
23. 59	32. 45							
June27		June27		June27		June27		
0. 0	21. 32. 45	0. 0	·1155	0. 0	·02447	8. 19	66 ·8	68 ·0
1. 13	34. 30	1. 28	·1165	1. 14	·02473	21. 0	61 ·8	63 ·4
1. 58	32. 40	2. 14	·1184	3. 18	·02440			
2. 42	32. 45	2. 27	·1182	7. 4	·02274			
3. 11	33. 50	3. 14	·1187	8. 52	·02279			
4. 15	30. 45	3. 30	·1181	12. 45	{·02530			
5. 53	29. 50	3. 46	·1185		{·02478			
8. 15	29. 20	4. 35	·1178	22. 0	·02450			
12. 7	29. 50		***	23. 59	·02344			
12. 17	30. 40	6. 30	·1193					
12. 57	29. 45	6. 55	·1186					
13. 53	27. 0	7. 40	·1193					
14. 23	25. 30	8. 55	·1192					
14. 45	26. 40	9. 45	·1199					
15. 19	26. 15		***					
15. 53	27. 45	12. 58	·1202					
15. 58	27. 15	13. 28	·1208					
16. 19	28. 0	14. 25	·1204					
16. 43	26. 20		***					
16. 50	26. 50	15. 5	·1207					
17. 42	24. 50	15. 52	·1202					
18. 27	26. 0	16. 17	·1209					
19. 0	25. 30	17. 35:	·1210					
19. 37	27. 0		***					
20. 12	27. 40	18. 50	·1195					
20. 30	28. 35	19. 15	·1196					
21. 30	30. 0		***					
22. 21	29. 20	21. 7	·1182					
23. 59	31. 40	23. 0	·1172					
		23. 59	·1175					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 28		June 28		June 28		June 28	°	°
h m	° ′ ″	h m		h m		h m		
0. 0	21. 31. 40	0. 0	·1175	0. 0	·02344	1. 0	65·7	67·0
0. 17	32. 15	0. 45	·1178	3. 7	·01694	3. 0	68·0	70·0
0. 43	32. 10	1. 4	·1184	4. 30	·01738	9. 0	70·0	71·0
1. 48	36. 20		***	7. 26	·01719	21. 0	62·2	64·2
2. 9	35. 30	2. 45	·1174	9. 25	·01684			
3. 26	35. 10		***	10. 45	·01764			
4. 40	34. 0	3. 45	·1179	12. 10	·01920			
5. 28	33. 50	4. 6	·1175	15. 10	{·02508			
7. 19	29. 10		***		{·02420			
8. 12	28. 0	5. 59	·1198	18. 7	·02412			
9. 27	30. 20	8. 0	·1185	22. 25	·02437			
10. 13	30. 10		***	23. 59	·02350			
10. 28	30. 40	11. 40	·1199					
11. 30	29. 0	12. 23	·1216					
11. 45	30. 50	13. 25	·1198					
12. 17	25. 30	14. 14	·1210					
12. 35	25. 30		***					
12. 52	23. 10	16. 35	·1219					
13. 15	25. 30	17. 20	·1212					
13. 40	24. 20		***					
14. 13	27. 20	18. 10	·1211					
14. 29	27. 10		***					
15. 4	28. 30	20. 13	·1198					
15. 45	27. 0	20. 25	·1180					
16. 16	26. 20	22. 45	·1161					
17. 22	26. 30	23. 5	·1164					
17. 56	24. 10	23. 59	·1159					
18. 16	24. 45							
18. 39	23. 40							
18. 56	24. 0							
19. 21	23. 25							
19. 43	23. 50							
20. 12	25. 10							
20. 45	25. 35							
21. 28	28. 10							
22. 21	28. 40							
22. 52	28. 30							
23. 24	28. 30							
23. 59	30. 0							
June 29		June 29		June 29		June 29		
0. 0	21. 30. 0	0. 0	·1159	0. 0	·02350	1. 0	66·0	68·0
0. 21	30. 5	1. 24	·1160	2. 51	·01842	3. 0	67·7	69·5
0. 36	29 10	1. 41	·1167	4. 30	·01670	9. 7	69·6	71·5
1. 40	30. 25	2. 30	·1161	6. 31	·01704	21. 0	63·2	65·0
3. 9	29. 40	2. 55	·1170	9. 52	·01673			
3. 53	29. 40		***	11. 29	·01808			
5. 54	28. 30	5. 0	·1170	16. 11	{·02484			
7. 30	26. 30	5. 25	·1176		{·02410			
8. 58	27. 45	5. 50	·1173	20. 43	·02430			
9. 15	26. 30	6. 25	·1178	23. 23	·02353			
9. 45	28. 0	7. 8	·1172	23. 59	·02213			
11. 9	28. 10	7. 45	·1177					
	***	8. 30	·1172					
12. 58	26. 30	9. 50:	·1182					
13. 19	24. 20		***					
13. 58	29. 30	11. 14	·1183					
14. 12	29. 20		***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 29		June 29						
h m	° ′ ″	h m		h m		h m	°	°
14. 44	21. 24. 30	12. 30	·1194					
15. 1	26. 30	12. 42	·1191					
15. 13	27. 0	13. 5	·1201					
15. 31	25. 30	13. 28	·1196					
	***	13. 45	·1197					
16. 31	25. 5	14. 14	·1215					
16. 43	26. 40	15. 0	·1197					
16. 58	23. 40	15. 40	·1206					
17. 28	26. 30		***					
17. 44	23. 50	17. 51	·1207					
17. 52	25. 0		***					
18. 4	23. 40	18. 40	·1199					
18. 43	23. 0		***					
18. 53	23. 30	21. 42	·1182					
	***	21. 55	·1167					
19. 43	20. 0	22. 14	·1174					
19. 52	20. 20	22. 30	·1165					
20. 19	17. 50	22. 45	·1165					
20. 28	19. 30	22. 55	·1156					
20. 40	19. 40	23. 15	·1155					
20. 45	18. 30	23. 26	·1164					
20. 54	18. 20	23. 59	·1158					
21. 0	14. 50							
21. 12	17. 50							
21. 43	21. 50							
21. 51	27. 50							
22. 12	21. 30							
22. 22	26. 40							
22. 30	26. 0							
	***							
23. 56	35. 0							
June 30		June 30		June 30		June 30		
0. 0	21. 34. 30	0. 0	·1159	0. 0	·02213	1. 11	68·5	70·5
0. 22	35. 15	0. 15	·1168	2. 16	·01684	3. 0	70·6	72·0
0. 40	37. 10	0. 34	·1171	6. 11	·01730	9. 0	71·0	73·0
0. 56	34. 55	0. 55	·1152	9. 5	·01705	21. 0	62·0	64·2
1. 12	34. 10	1. 0	·1142	10. 7	·01738			
1. 45	36. 30	1. 20	·1157	12. 29	·01984			
2. 1	36. 0	1. 46	·1168	15. 14	{·02510			
2. 15	34. 30	2. 10	·1155		{·02453			
2. 44	34. 50	2. 30	·1166	17. 29	·02453			
3. 52	31. 30	2. 45	·1166	19. 16	·02427			
4. 3	31. 30		***	20. 4	·02440			
5. 24	29. 5	3. 44	·1147	22. 30	·02366			
5. 59	28. 30	4. 0	·1155	23. 59	·02377			
7. 1	27. 50	4. 55	·1156					
7. 22	28. 5	5. 27	·1153					
8. 15	25. 50	5. 47	·1160					
8. 42	25. 30	6. 28	·1160					
9. 10	21. 20	6. 59	·1154					
9. 25	22. 20	8. 10	·1170					
9. 54	26. 35		***					
10. 10	26. 30	9. 0	·1163					
	***	9. 14	·1172					
11. 13	28. 30	9. 25	·1170					
11. 42	31. 0	9. 38	·1176					
11. 59	31. 0	10. 35	·1171					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 30		June 30						
h m	° ′ ″	h m		h m		h m	°	°
12. 40	21. 27. 5	11. 4	·1178					
12. 51	27. 10	11. 20	·1174					
13. 4	26. 0	11. 43	·1176					
13. 39	24. 50	12. 1	·1170					
13. 59	24. 30	12. 43	·1179					
14. 21	25. 20	13. 44	·1171					
14. 40	24. 5	14. 45	·1174					
15. 7	28. 45		***					
15. 17	29. 10	17. 50	·1199					
16. 22	24. 20		***					
17. 28	20. 30	19. 25	·1182					
17. 59	21. 30	19. 45	·1182					
18. 10	20. 0		***					
18. 24	19. 50	21. 10	·1158					
18. 30	21. 0	21. 33	·1170					
18. 43	19. 20	22. 0	·1160					
18. 50	19. 30	22. 20	·1179					
19. 7	17. 30		***					
19. 15	19. 0	23. 50	·1182					
19. 30	18. 30		(†)					
19. 45	20. 0							
20. 11	17. 20							
20. 57	23. 15							
21. 28	24. 10							
21. 51	27. 0							
21. 55	26. 30							
21. 59	27. 30							
22. 11	26. 30							
22. 36	31. 10							
22. 44	30. 0							
22. 47	31. 10							
22. 51	30. 50							
22. 55	32. 30							
23. 6	30. 30							
23. 14	34. 30							
23. 19	34. 0							
23. 27	36. 30							
23. 32	35. 50							
23. 42	37. 30							
23. 59	34. 30							
July 1		July 1		July 1		July 1		
0. 0	21. 34. 30		(†)	0. 0	·02377	1. 0	64 ·0	66 ·0
0. 13	38. 30	0. 15	·1174	0. 45	·02407	3. 0	65 ·0	67 ·0
0. 41	30. 10	0. 26	·1180	3. 22	·02155	9. 0	64 ·8	66 ·4
0. 44	32. 30	0. 47	·1157	4. 40	·02136	21. 0	58 ·0	59 ·5
	***	1. 16	·1182	5. 50	·02147			
1. 12	33. 10	1. 30	·1172	7. 54	·02066			
1. 43	40. 0	1. 45	·1177	10. 12	·02085			
2. 12	40. 50		***	13. 13	·02370			
2. 51	39. 30	3. 20	·1177		·02338			
3. 15	36. 50		***	15. 34	·02311			
3. 54	35. 0	4. 25	·1187	20. 10	·02394			
4. 10	35. 50	4. 33	·1181	21. 2	·02376			
4. 25	34. 30	4. 59	·1180		(†)			
4. 41	34. 10	5. 14	·1191					
5. 0	27. 40	5. 28	·1184					
5. 14	28. 10	5. 51	·1201					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 1		July 1						
h m	° ′ ″	h m		h m		h m	°	°
5. 35	21. 25. 10	6. 15	·1187					
6. 25	29. 20	7. 0	·1183					
6. 56	29. 35	7. 27	·1187					
7. 11	28. 45		***					
9. 30	28. 10	9. 46	·1180					
10. 2	28. 30	10. 25	·1190					
10. 26	27. 30		***					
10. 36	27. 25	11. 6	·1192					
11. 33	23. 30	11. 16	·1184					
11. 46	24. 20	11. 32	·1190					
11. 56	24. 10	11. 44	·1185					
12. 3	26. 0	11. 51	·1192					
12. 33	24. 0	12. 10	·1188					
12. 41	25. 20	12. 52	·1201					
12. 46	24. 35	13. 14	·1193					
13. 14	26. 30		***					
13. 42	25. 30	14. 25	·1198					
13. 45	27. 35	14. 35	·1192					
13. 56	26. 30	15. 41	·1193					
14. 40	24. 40	16. 15	·1202					
14. 52	26. 30		***					
15. 42	26. 20	18. 13	·1202					
16. 22	22. 30		***					
	***	20. 15:	·1172					
17. 56	22. 50	20. 55	·1176					
18. 9	25. 0	21. 45	·1162					
18. 14	21. 20		(†)					
18. 20	21. 10							
18. 26	25. 0							
18. 52	23. 35							
19. 2	25. 30							
19. 30	24. 20							
19. 51	25. 30							
20. 10	25. 20							
20. 22	25. 30							
20. 30	27. 0							
20. 39	25. 30							
21. 6	30. 20							
21. 28	30. 0							
22. 10	32. 40							
	(†)							
July 2		July 2		July 2		July 2		
0. 0	21. 34. 20		(†)	0. 0	·02283	1. 0	60 ·6	61 ·0
0. 12	34. 40	0. 30	·1046	2. 13	·02230	3. 0	62 ·0	63 ·5
0. 27	33. 20	0. 47	·1053	5. 56	·01776	9. 0	64 ·0	65 ·0
1. 20	34. 10	1. 0	·1050	7. 40	·01606	21. 0	60 ·0	61 ·4
1. 53	32. 20	1. 29	·1062	8. 15	·01610			
2. 21	33. 30	1. 52	·1058	8. 30	·01550			
3. 51	28. 40	2. 20	·1075	9. 15	·01522			
3. 57	29. 20		***	11. 56	·01645			
4. 12	28. 30	3. 26	·1064	17. 50	·02240			
4. 29	29. 20	4. 0	·1090	20. 15	·02292			
4. 45	28. 30	4. 30	·1094	23. 22	·02273			
5. 54	28. 30	4. 55	·1078		(†)			
6. 15	29. 10	5. 12	·1081					
6. 22	30. 0	5. 25	·1080					
6. 54	26. 40	5. 36	·1088					

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

HORIZONTAL FORCE. July 1d. 22h. In consequence of the force appearing unusually large from June 27, the box containing the magnet was opened, and all parts connected with it examined. It seemed to move freely, but finally settled in a position differing by nearly six divisions of the scale, or indicating a less force by ·0·0122. It is possible that the numbers between June 27 and July 1 may be too large by this quantity, yet the magnet within this interval moved freely, as shown by the Photographic Traces.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 2		July 2						
h m	° ′ ″	h m		h m		h m	°	°
7. 1	21. 26. 40	5. 55	·1091					
7. 18	24. 0	6. 5	·1088					
7. 30	27. 45	6. 26	·1094					
7. 40	27. 35		***					
7. 51	29. 35	7. 8	·1085					
8. 15	24. 55	7. 25	·1094					
8. 23	22. 30	7. 30	·1086					
8. 38	32. 0	7. 42	·1096					
8. 52	28. 40	8. 5	·1074					
9. 10	29. 30	8. 30	·1102					
9. 30	28. 40	8. 45	·1080					
9. 45	28. 25	9. 0	·1082					
10. 13	25. 0	9. 24	·1068					
10. 40	26. 20	9. 40	·1072					
10. 56	26. 10	10. 8	·1067					
11. 30	28. 25	10. 24	·1071					
12. 44	23. 0	10. 30	·1068					
13. 14	26. 30	11. 5	·1066					
14. 15	25. 30	11. 30	·1071					
15. 28	25. 30	12. 2	·1084					
17. 12	22. 0	12. 25	·1075					
18. 28	18. 30	12. 45	·1080					
18. 36	17. 0	14. 0	·1075					
18. 41	17. 40	18. 54	·1079					
	***	20. 0	·1064					
19. 28	17. 50		***					
19. 41	16. 30	22. 38	·1068					
20. 26	18. 20	23. 10	·1060					
20. 36	20. 30	23. 59	·1068					
21. 0	20. 0							
22. 15	23. 30							
23. 6	27. 35							
23. 59	31. 40							
July 3		July 3		July 3		July 3		
0. 0	21. 31. 45	0. 0	·1068	0. 30	·02247	1. 0	62 ·0	63 ·0
0. 31	36. 0	0. 29	·1069		***	3. 0	62 ·7	64 ·0
0. 45	35. 15	0. 45	·1059	3. 27	·02106	9. 0	62 ·0	63 ·3
1. 1	37. 0	1. 0	·1076		***	22. 12	59 ·7	60 ·6
1. 27	33. 50	1. 15	·1052	5. 48	·02048			
1. 52	34. 30	3. 15	·1070	7. 15	·02053			
2. 15	37. 30		***	12. 39	·02175			
2. 53	37. 50	4. 5	·1075	14. 30	·02284			
3. 14	40. 30	4. 45	·1090	15. 40	·02300			
3. 29	34. 0	4. 58	·1108	16. 6	·02237			
3. 52	31. 30	5. 14	·1099	18. 21	·02406			
3. 59	32. 0	5. 28	·1107	19. 15	·02406			
4. 20	30. 0	6. 10	·1092	20. 18	·02366			
4. 51	32. 30	6. 37	·1104	22. 10	·02380			
4. 56	31. 35	6. 45	·1097	23. 59	·02192			
5. 10	33. 25	7. 0	·1096					
5. 21	31. 45	7. 15	·1082					
5. 32	33. 10	7. 50	·1101					
5. 49	31. 30	8. 17	·1082					
6. 13	30. 50	9. 15	·1072					
6. 24	31. 30	10. 25	·1086					
6. 36	30. 40	10. 45	·1086					
6. 43	30. 45	11. 35	·1064					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 3		July 3						
h m	° ′ ″	h m		h m		h m	°	°
7. 6	21. 26. 35	12. 2	·1072					
7. 51	20. 0	12. 25	·1084					
8. 12	22. 30	13. 55	·1082					
8. 27	21. 0	14. 30	·1074					
8. 45	22. 20	15. 0	·1077					
9. 14	24. 10	15. 40	·1091					
9. 26	26. 20	17. 10	·1093					
9. 45	26. 40	17. 45	·1083					
10. 13	26. 30		***					
10. 28	25. 0	19. 15	·1082					
11. 0	26. 30	20. 5	·1073					
11. 27	24. 30	20. 55	·1049					
11. 40	28. 30	21. 45	·1060					
11. 44	27. 50	21. 56	·1056					
11. 48	28. 50	22. 15	·1063					
12. 0	27. 30	22. 25	·1056					
12. 13	32. 0	23. 15	·1042					
12. 19	31. 40	23. 59	·1056					
12. 29	34. 0							
12. 52	28. 30							
13. 51	26. 15							
14. 13	28. 0							
15. 25	31. 0							
15. 43	31. 0							
16. 30:	23. 40							
17. 6	24. 30							
17. 40	22. 30							
17. 51	22. 45							
17. 56	22. 0							
18. 17	23. 40							
18. 32	22. 30							
18. 44	23. 20							
19. 0	19. 30							
19. 12	21. 0							
19. 27	22. 50							
19. 41	21. 0							
19. 51	21. 0							
20. 22	18. 45							
20. 40	20. 20							
20. 44	20. 10							
21. 9	26. 10							
21. 28	25. 30							
21. 40	26. 10							
21. 52	26. 10							
22. 11	28. 50							
22. 27	29. 30							
22. 41	30. 0							
22. 52	29. 45							
23. 12	31. 10							
23. 16	29. 20							
23. 59	32. 10							
July 4		July 4		July 4		July 4		
0. 0	21. 32. 15	0. 0	·1057	0. 0	·02192	8. 37	67 ·6	68 ·0
0. 14	33. 10	0. 11	·1058	1. 17	·01984	21. 0	61 ·4	62 ·3
	***	1. 17	·1054	3. 0	·01638			
1. 49	32. 15	2. 6	·1058	5. 10	·01663			
2. 13	31. 20	2. 21	·1092	6. 15	·01622			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 4		July 4		July 4		h m	°	°
h m	° ′ ″	h m		h m				
2. 29	21. 33. 30	2. 23	·1087	9. 14	·01644			
2. 40	31. 50	2. 28	·1087	10. 15	·01733			
2. 52	34. 20	2. 32	·1099	10. 30	·01710			
3. 13	34. 30	2. 52	·1075	12. 30	·01967			
3. 19	33. 30	3. 0	·1083	12. 56	·01983			
3. 44	32. 10	3. 3	·1077	14. 42	·02286			
4. 12	33. 40	3. 6	·1086	15. 15	·02365			
5. 30	31. 30	3. 24	·1064	15. 30	·02358			
5. 44	32. 10	3. 42	·1056	15. 58	·02407			
5. 58	32. 0	4. 15:	·1066		·02368			
6. 18	28. 40	5. 0	·1048	19. 55	·02438			
6. 25	29. 30	5. 30	·1052	23. 15	·02387			
6. 52	28. 10	5. 47	·1072	23. 59	·02392			
7. 53	27. 25	6. 10	·1055					
8. 27	25. 30	6. 18	·1037					
9. 15	27. 30	6. 21	·1054					
9. 39	26. 10		***					
9. 42	26. 30	7. 0	·1050					
9. 52	25. 25	7. 10	·1058					
10. 22	26. 25	7. 22	·1059					
10. 30	30. 30	7. 30	·1069					
10. 50	23. 35	7. 35	·1048					
11. 11	28. 30	8. 3	·1072					
11. 26	25. 45	8. 15	·1057					
11. 52	25. 10		***					
12. 12	27. 0	9. 6	·1070					
12. 26	32. 0	9. 28	·1062					
12. 30	30. 50	9. 42	·1070					
12. 39	30. 55	9. 49	·1064					
12. 57	26. 30	10. 15	·1073					
13. 11	27. 50	10. 27	·1086					
13. 26	25. 20	10. 39	·1080					
	***	10. 52	·1086					
14. 11	23. 45	11. 1	·1075					
14. 39	29. 45	11. 15	·1074					
14. 41	26. 50	11. 30	·1065					
14. 45	27. 30	11. 55	·1076					
15. 12	35. 50	12. 15	·1082					
15. 44	26. 25	12. 30	·1077					
16. 14	25. 30	12. 41	·1086					
	***	13. 2	·1077					
16. 49	27. 30	13. 8	·1081					
17. 18	32. 40	13. 29	·1066					
	***		***					
18. 12	30. 0	14. 15	·1092					
18. 35	33. 30	14. 35	·1091					
19. 0	26. 35	14. 44	·1097					
	***	15. 14	·1078					
19. 22	26. 10	15. 40	·1088					
	***	16. 49	·1095					
19. 49	27. 30		***					
	***	17. 24	·1088					
21. 28	23. 45	17. 57	·1092					
21. 40	25. 20	18. 25	·1090					
22. 0	22. 30	18. 47	·1079					
22. 10	24. 30	19. 55:	·1100					
22. 30	24. 10		***					
22. 45	22. 0	21. 36	·1062					
23. 6	24. 30	22. 10	·1060					
July 4		July 4						
h m	° ′ ″	h m						
23. 52	21. 25. 30	22. 40	·1043					
23. 59	26. 0	22. 50	·1052					
		23. 4	·1054					
		23. 45	·1072					
		23. 59	·1064					
July 5		July 5		July 5		July 5		
0. 0	21. 26. 0	0. 0	·1064	0. 0	·02392	1. 0	62 ·6	65 ·2
1. 10	32. 0		***	2. 56	·02162	3. 0	64 ·0	66 ·0
	***	0. 45	·1065		***	9. 0	65 ·0	66 ·3
2. 50	32. 30	1. 0	·1073	5. 25	·02117	21. 0	60 ·7	61 ·8
2. 57	33. 45	1. 26	·1066	5. 51	·02037			
3. 14	28. 10	1. 45	·1076	6. 0	·02068			
3. 25	30. 0		***	6. 11	·02000			
3. 29	29. 25	2. 18	·1079	6. 23	·02016			
3. 42	29. 45	2. 30	·1071	7. 4	·01954			
3. 45	31. 30	2. 50	·1075		***			
3. 52	31. 0	3. 0	·1100	10. 11	·01876			
4. 5	34. 0	3. 14	·1088	10. 24	·01822			
4. 15	30. 5	3. 23	·1099	11. 11	·01876			
4. 20	31. 30	3. 39	·1086	11. 39	·01835			
4. 27	31. 10	4. 1	·1104	12. 40	·02010			
4. 36	34. 30	4. 15	·1106	14. 44	·02273			
4. 45	26. 30	4. 30	·1137	14. 55	·02068			
5. 6	33. 0	4. 41	·1106	16. 44	·02495			
5. 14	35. 50	4. 54	·1133		·02468			
5. 27	30. 0	5. 1	·1114	21. 51	·02450			
	***	5. 15	·1116	23. 59	·02232			
5. 52	32. 15	5. 25	·1108					
6. 1	36. 35	5. 28	·1129					
6. 13	13. 50	5. 31	·1125					
6. 26	32. 50	5. 46	·1141					
6. 39	21. 30	5. 51	·1113					
6. 45	25. 40	6. 0	·1134					
7. 0	25. 0	6. 7	·1098					
7. 14	29. 10	6. 15	·1152					
7. 30	26. 10	6. 29	·1099					
7. 42	26. 45	6. 40	·1122					
7. 52	25. 30		***					
8. 12	26. 0	7. 5	·1113					
8. 28	27. 30	7. 24	·1092					
8. 40	26. 40	7. 32	·1094					
8. 45	27. 30	8. 0	·1089					
	***	8. 10	·1068					
9. 22	22. 30	8. 15	·1075					
9. 25	25. 40	8. 25	·1075					
9. 44	22. 30	8. 30	·1068					
9. 51	23. 30	8. 44	·1076					
10. 10	18. 15	8. 55	·1054					
10. 51	19. 30	9. 30	·1064					
10. 59	21. 30	9. 40	·1056					
	***	9. 48	·1062					
11. 19	18. 30	9. 59	·1051					
11. 33	12. 30	10. 24	·1071					
11. 40	12. 45	10. 40	·1043					
11. 49	8. 0	10. 58	·1045					
12. 12	20. 20	11. 1	·1042					
12. 22	21. 0	11. 30	·1066					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 5		July 5						
h m	° ′ ″	h m		h m		h m	°	°
12. 38	21. 27. 30	11. 45	·1045					
12. 46	23. 30	11. 55	·1060					
13. 15	20. 35	12. 9	·1066					
13. 36	24. 35	12. 13	·1062					
13. 51	24. 20	12. 25	·1068					
14. 14	27. 35	12. 39	·1088					
	***	12. 45	·1076					
			***					
14. 42	28. 20							
14. 53	35. 30	13. 12	·1080					
			***					
15. 24	28. 25							
15. 45	23. 30	13. 40	·1074					
			***					
16. 11	22. 20							
16. 21	22. 30	14. 35	·1081					
16. 40	21. 10	14. 44	·1094					
16. 59	21. 35	15. 9	·1071					
			***					
17. 21	20. 50							
	***	16. 30	·1092					
			***					
18. 30	21. 30							
	***	18. 0	·1084					
18. 43	20. 25	19. 25	·1054					
	***		***					
19. 27	23. 15	20. 33	·1054					
			***					
19. 40	22. 30							
	***	22. 15:	·1066					
			***					
20. 27	27. 30							
20. 31	27. 0	23. 55	·1058					
20. 45	27. 45		(†)					
21. 54	27. 40							
	***							
22. 35	29. 35							
22. 45	29. 45							
23. 28	32. 30							
23. 40	32. 0							
23. 55	32. 50							
July 6		July 6		July 6		July 6		
0. 0	21. 32. 50		(†)	0. 0	·02232	1. 0	63 ·3	65 ·0
0. 12	32. 30	0. 8	·1055	3. 2	·01830	3. 0	65 ·0	66 ·2
			***	4. 45	·01707	9. 0	66 ·4	68 ·4
1. 39	35. 10			5. 45	·01764	21. 0	61 ·7	61 ·9
1. 54	33. 20	0. 57	·1061	9. 43	·01685			
2. 6	32. 45	1. 42	·1059	10. 50	·01713			
2. 12	34. 10	2. 2	·1049					
	(†)	2. 10	·1058	16. 40	{ ·02480			
3. 0	30. 56*	2. 43	·1067		{ ·02433			
5. 4	31. 10	2. 47	·1061	22. 12	·02440			
5. 15	31. 0	3. 1	·1059	23. 59	·02390			
			***					
5. 28	28. 40							
5. 44	24. 0	3. 53	·1076					
5. 54	28. 20	4. 5	·1070					
6. 13	26. 45	4. 43	·1084					
6. 40	30. 20	5. 1	·1076					
6. 54	30. 40	5. 25	·1079					
7. 12	30. 0	5. 52	·1108					
7. 52	30. 30	5. 59	·1100					
8. 43	27. 40	6. 10	·1096					
9. 0	30. 20	6. 25	·1100					
9. 19	30. 0	6. 44	·1076					
9. 37	30. 50	7. 15	·1070					
			***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 6		July 6						
h m	° ′ ″	h m		h m		h m	°	°
10. 27	21. 26. 50	8. 0	·1086					
10. 40	30. 10	8. 12	·1077					
			***					
10. 52	25. 5							
11. 15	22. 30	9. 6	·1066					
11. 29	22. 15	9. 42	·1077					
			***					
12. 42	26. 40							
13. 26	24. 30	10. 26	·1070					
13. 38	26. 30	10. 44	·1093					
			***					
13. 43	25. 55							
13. 51	27. 30	11. 50	·1078					
14. 51	27. 30	12. 14	·1070					
15. 31	25. 10	13. 0:	·1078					
17. 7	25. 0	13. 57	·1074					
17. 22	25. 30	14. 13	·1078					
17. 51	25. 30	14. 32	·1078					
17. 57	23. 30	15. 30	·1086					
18. 6	24. 30	15. 55	·1082					
18. 15	23. 30	16. 46	·1086					
	***	17. 40	·1069					
18. 40	25. 5	18. 30	·1078					
19. 13	23. 30	19. 30	·1069					
	***		***					
20. 21	23.. 5	23. 7	·1062					
23. 53	28. 40	23. 55	·1066					
23. 59	29. 20		(†)					
July 7		July 7		July 7		July 7		
0. 0	21. 29. 20		(†)	0. 0	·02390	1. 0	62 ·7	63 ·8
0. 24	28. 30	0. 15	·1060	3. 13	·02093	3. 0	64 ·0	64 ·6
1. 56	31. 10	1. 20	·1060	4. 45	·02006	9. 0	63 ·2	64 ·8
3. 27	29. 30	1. 45	·1066	7. 22	·02057	21. 0	59 ·2	60 ·4
	***	3. 18	·1075	10. 12	·02072			
5. 40	30. 5	3. 40	·1081	12. 31	·02140			
6. 13	28. 40		***	16. 30	·02368			
9. 43	28. 25	4. 37	·1074	16. 40	·02273			
10. 1	26. 50	6. 0	·1088	19. 15	{ ·02447			
10. 40	27. 20	7. 50	·1086		{ ·02410			
11. 16	26. 30	8. 15	·1088	21. 0:	·02400			
11. 54	28. 30	9. 45	·1086	23. 59	·02044			
12. 44	27. 20	10. 0	·1090					
14. 31	27. 50	10. 45	·1085					
16. 48	24. 55	11. 1	·1087					
16. 59	25. 30	11. 40	·1084					
17. 26	25. 30	12. 11	·1090					
18. 4	23. 30	12. 40	·1087					
19. 42	22. 5	18. 0:	·1090					
22. 4	25. 30	22. 45	·1059					
23. 59	30. 0	23. 59	·1055					
July 8		July 8		July 8		July 8		
0. 0	21. 30. 0	0. 0	·1054	0. 0	·02044	1. 0	63 ·5	64 ·8
2. 16	33. 20	2. 26	·1073	2. 39	·01530	3. 0	63 ·7	65 ·0
2. 25	32. 30	2. 50	·1071	4. 27	·01526	9. 0	62 ·6	64 ·3
3. 40	32. 30	4. 25	·1088	10. 21:	·01727	21. 0	59 ·0	60 ·0
4. 11	31. 20		***	17. 52:	·02317			
5. 29	30. 40	5. 24	·1089	23. 59	·01944			
5. 45	29. 20	5. 48	·1096					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Readings of Thermometers. Of V.F. Magnet.
July 8		July 8						
h m	° ′ ″	h m		h m		h m	°	°
6. 57	21. 28. 10	6. 15	·1090					
7. 21	28. 30	6. 45	·1097					
7. 50	27. 50	6. 55	·1092					
8. 12	28. 10		***					
9. 28	26. 40	9. 14	·1095					
9. 40	27. 10	9. 25	·1090					
9. 51	26. 0	9. 45	·1089					
11. 44	27. 10	9. 56	·1086					
11. 57	26. 50	10. 24	·1094					
12. 13	28. 0	11. 25	·1086					
12. 51	26. 45	11. 45	·1094					
12. 58	26. 55	11. 55	·1086					
14. 39	24. 20		***					
14. 42	24. 45	13. 0	·1092					
15. 45	22. 30		***					
16. 22	23. 20	17. 17	·1097					
16. 40	22. 0		***					
17. 10	23. 30	19. 40:	·1089					
17. 16	22. 0	22. 0	·1052					
17. 27	23. 35	23. 59	·1062					
17. 43	22. 40							
17. 58	24. 20							
18. 12	22. 10							
18. 29	23. 35							
	***							
18. 52	21. 30							
	***							
20. 22	21. 0							
20. 40	22. 0							
20. 52	21. 30							
21. 37	22. 30							
23. 7	27. 30							
23. 59	33. 45							
July 9		July 9		July 9		July 9		
0. 0	21. 33. 45	0. 0	·1062	0. 0	·01944	1. 0	63 ·0	64 ·8
0. 40	34. 5	0. 45	·1050	1. 37	·01544	3. 0	64 ·6	65 ·6
0. 56	36. 20	1. 0	·1059	3. 42	·01580	9. 0	63 ·0	63 ·0
1. 11	35. 30	1. 15	·1052	8. 12	·01593	21. 0	56 ·8	58 ·8
1. 24	36. 30	1. 30	·1061	10. 29	·01740			
3. 10	33. 10		***	14. 7	·02083			
3. 39	33. 30	3. 13	·1084	16. 40	·02384			
4. 1	30. 50	3. 45	·1102	21. 5	{·02327 ·02133			
4. 44	30. 30	4. 15	·1082					
5. 6	29. 30		***	23. 59	·02008			
7. 4	26. 10	5. 18	·1087					
7. 56	27. 30	5. 38	·1083					
8. 39	24. 10	6. 45	·1091					
8. 45	25. 30	7. 0	·1088					
9. 24	25. 30	7. 50	·1094					
9. 57	26. 30	8. 15	·1090					
10. 29	25. 30	8. 42	·1095					
12. 21	27. 30	9. 0	·1087					
12. 40	26. 20	9. 30	·1088					
12. 45	26. 50	9. 48	·1084					
13. 6	24. 55	10. 51	·1087					
13. 22	27. 30	11. 13	·1082					
13. 52	28. 30	12. 17	·1090					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Readings of Thermometers. Of V.F. Magnet.
July 9		July 9						
h m	° ′ ″	h m		h m		h m	°	°
14. 12	21. 26. 30	12. 40	·1086					
14. 40	25. 20	12. 57	·1090					
15. 12	22. 20	13. 14	·1086					
16. 0	21. 25	13. 34	·1104					
16. 36	21. 30	13. 55	·1105					
17. 12	18. 0		***					
17. 28	19. 20	15. 10	·1093					
17. 32	18. 10		***					
17. 40	19. 15	17. 32	·1095					
17. 43	17. 30		***					
17. 52	19. 30	18. 37	·1085					
17. 59	16. 55	19. 0	·1089					
18. 15	19. 50		***					
18. 40	17. 40	20. 30	·1087					
19. 7	20. 45	22. 8	·1068					
19. 14	20. 10	22. 33	·1071					
19. 54	20. 15	22. 45	·1062					
20. 12	18. 10	23. 59	·1065					
20. 15	19. 10							
20. 24	18. 45							
22. 6	24. 30							
22. 29	27. 0							
22. 35	29. 0							
23. 59	32. 40							
July 10		July 10		July 10		July 10		
0. 0	21. 32. 40	0. 0	·1065	0. 0	·02008	1. 0	60 ·2	62 ·0
0. 56	36. 0	0. 30:	·1064	0. 42	·01920	3. 0	64 ·8	66 ·0
2. 42	36. 30	1. 0	·1076	2. 0	·01577	9. 0	65 ·3	66 ·7
3. 27	32. 30	1. 30	·1070	3. 25	·01650	21. 58	64 ·7	65 ·6
4. 14	30. 30	2. 40	·1090	7. 24	·01667			
4. 43	30. 45	2. 55	·1100	13. 12	·01636			
5. 14	28. 30	3. 40	·1079	17. 24	·01856			
5. 35	24. 40	4. 21	·1096	21. 11	·01995			
6. 5	25. 30	4. 45	·1098	23. 59	·01629			
6. 25	23. 30	5. 0	·1104					
6. 50	25. 0	5. 27	·1096					
7. 45	26. 10	5. 42	·1085					
9. 56	26. 35	6. 1	·1104					
10. 30	24. 30		***					
11. 30	24. 50	7. 20	·1086					
11. 51	28. 45	7. 30	·1091					
12. 0	26. 30	7. 42	·1087					
12. 21	27. 20		***					
12. 43	25. 30	8. 11	·1084					
13. 12	24. 45	8. 25	·1089					
13. 43	22. 30	8. 47	·1083					
14. 12	23. 40	9. 13	·1088					
	***	9. 42	·1080					
15. 10	22. 30	10. 14	·1086					
15. 30	21. 35	11. 15	·1078					
16. 11	22. 40		***					
17. 0	19. 45	12. 45	·1088					
17. 10	25. 10	13. 55	·1079					
17. 12	18. 0		***					
17. 22	21. 10	17. 45	·1081					
	***		***					
18. 19	18. 30	18. 30	·1079					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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. 43	21. 21. 20	18. 44	·1071					
20. 40	21. 0		***					
21. 58	26. 30	20. 50	·1058					
23. 59	34. 45	22. 16	·1048					
		23. 59	·1041					
July 11		July 11		July 11		July 11		
0. 0	21. 34. 45	0. 0	·1041	0. 0	·01629	6. 55	73 ·7	74 ·4
1. 40	37. 40	1. 15	·1042	2. 43	·01784	21. 0	65 ·2	64 ·8
2. 32	35. 40	2. 0	·1052	4. 10	·01808			
2. 45	35. 45	2. 16	·1046	8. 43	·01750			
3. 10	33. 40	2. 50	·1050	10. 47:	·01786			
3. 58	31. 25	3. 12	·1059	13. 0	·01946			
5. 42	28. 40	3. 39	·1052		(†)			
7. 14	28. 30	4. 0	·1059	21. 0	·02430*			
7. 40	28. 0		***		(†)			
8. 30	28. 0	5. 35	·1053					
9. 0	23. 0	6. 7	·1060					
9. 58	26. 20	6. 30	·1053					
10. 52	27. 30	7. 25	·1055					
11. 53	27. 10	7. 55	·1048					
	(†)	8. 25	·1054					
21. 3	27. 10	8. 44	·1053					
21. 59	29. 0	9. 12	·1057					
23. 12	29. 35	9. 36	·1049					
23. 45	30. 30	10. 0	·1053					
23. 59	31. 10	10. 28	·1049					
		11. 10	·1051					
		11. 38	·1057					
		12. 44	·1060					
			(†)					
		21. 3	·1057					
		23. 0	·1053					
		23. 59	·1062					
July 12		July 12		July 12		July 12		
0. 0	21. 31. 15	0. 0	·1063	0. 0	·02170	1. 0	69 ·0	70 ·0
1. 51	32. 20	0. 57	·1072	1. 40	·01730	3. 0	71 ·8	73 ·0
2. 43	31. 10	1. 15	·1069	4. 25	·01836	9. 0	75 ·4	77 ·0
3. 40	31. 20	1. 55	·1075	6. 12	·01838	21. 0	67 ·6	69 ·2
4. 26	30. 0	2. 50	·1070		***			
5. 25	29. 20	4. 14	·1071	9. 39	·01795			
6. 29:	26. 0	4. 39	·1066	11. 51:	·01840			
7. 51	27. 30	5. 18	·1076	13. 52	·02086			
9. 42	27. 30	5. 59	·1064	16. 30	·02636			
9. 50	28. 20	6. 29	·1068		·02584			
14. 43	27. 0	7. 5	·1066	20. 15	·02565			
14. 56	27. 30	8. 9	·1058		·02483			
17. 50	22. 30	11. 40	·1063	22. 49	·02525			
19. 30	23. 20	12. 15	·1069	23. 59	·02520			
19. 43	22. 30	16. 50	·1080					
21. 56	28. 30	21. 45	·1069					
22. 12	28. 30	23. 59	·1064					
23. 59	31. 30							
July 13		July 13		July 13		July 13		
0. 0	21. 31. 30	0. 0	·1064	0. 0	·02520	1. 0	69 ·0	70 ·4
2. 45	34. 30	0. 55	·1071	1. 58	·02457	3. 0	70 ·0	71 ·4

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 13		July 13		July 13		July 13		
h m	° ′ ″	h m		h m		h m	°	°
3. 19	21. 33. 45	1. 30	·1064	8. 21:	·01957	9. 0	70 ·7	71 ·7
4. 30	33. 40	2. 7	·1065	13. 26	·02546	21. 0	66 ·0	67 ·0
8. 0	27. 30	2. 55	·1070		·02496			
8. 50	27. 35	3. 17	·1065	19. 2	·02550			
9. 26	21. 40	4. 45	·1073	22. 5	·02506			
9. 58	24. 0	5. 14	·1069	23. 59	·02294			
10. 17	27. 30	5. 45	·1076					
14. 40	28. 40	8. 46	·1072					
15. 6	27. 35	9. 7	·1068					
15. 27	27. 30	9. 30	·1076					
16. 52	23. 45	9. 54	·1071					
17. 6	24. 15	10. 51	·1076					
17. 40	22. 35	11. 5	·1074					
17. 51	22. 50	12. 35	·1078					
19. 37	20. 30	15. 0	·1081					
21. 20	23. 0	18. 45	·1079					
23. 59	34. 10	21. 30	·1070					
		22. 45	·1056					
		23. 15	·1054					
		23. 59	·1060					
July 14		July 14		July 14		July 14		
0. 0	21. 34. 10	0. 0	·1060	0. 0	·02294	1. 0	69 ·8	70 ·6
1. 15	38. 10	0. 55	·1062	1. 22	·02044	3. 0	73 ·0	73 ·6
2. 39	38. 0	1. 31	·1068	2. 40	·01726	9. 0	77 ·0	77 ·2
3. 38	36. 10	1. 55	·1062		·01790	21. 0	74 ·0	72 ·0
4. 17	32. 45	2. 25	·1063	4. 30	·01836			
5. 8	32. 20	3. 15	·1076	6. 25	·01884			
5. 15	32. 45	3. 41	·1077	10. 15	·01776			
5. 30	32. 0		***	10. 56	·01793			
5. 39	32. 25	4. 29	·1053	11. 15	·01782			
6. 44	29. 20	4. 45	·1059	11. 33	·01802			
9. 4	29. 30		***	12. 21	·01803			
9. 53	31. 10	6. 0	·1050	14. 15	·02035			
10. 10	31. 0	6. 16	·1039	17. 52	·02650			
10. 28	28. 30		***		·02592			
10. 40	29. 0	8. 30	·1056	21. 10	·02626			
10. 46	29. 0	9. 5	·1054	23. 59	·02166			
10. 53	30. 20	10. 5	·1063					
11. 28	16. 20	10. 25	·1054					
11. 52	25. 20	10. 45	·1058					
12. 23	21. 30	11. 2	·1070					
12. 59	21. 40	11. 20	·1046					
13. 14	25. 0	11. 41	·1066					
13. 22	23. 30	12. 8	·1052					
13. 43	26. 30	12. 15	·1053					
15. 51	26. 25	12. 30	·1047					
16. 0	26. 50		***					
16. 15	25. 30	13. 45	·1062					
17. 3	25. 50	14. 25	·1060					
17. 15	24. 30		***					
17. 21	25. 40	18. 15	·1068					
17. 58	24. 45	18. 45	·1048					
18. 52	27. 20	20. 30	·1036					
19. 9	27. 5	21. 45	·1032					
19. 57	29. 40	23. 59	·1024					
21. 39	28. 20							
21. 56	30. 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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 14								
h m	° ′ ″	h m		h m		h m	°	°
23. 10	21. 31. 55							
23. 21	32. 55							
23. 45	33. 40							
23. 59	34. 25							
July 15		July 15		July 15		July 15		
0. 0	21. 34. 25	0. 0	·1024	0. 0	·02166	1. 0	79 ·0	78 ·0
0. 28	36. 20	0. 40	·1022	1. 0	·01850	3. 0	81 ·5	80 ·9
0. 59	36. 40	0. 55	·1016		***	9. 0	82 ·0	82 ·8
1. 49	34. 30	1. 41	·1020	5. 43	·01914	21. 10	73 ·0	73 ·7
2. 2	36. 40	2. 1	·1037	8. 21	·01820			
2. 15	36. 50	2. 11	·1032	10. 11:	·01865			
2. 41	38. 0	2. 40	·1038	10. 31	·02106			
3. 12	36. 40	3. 11	·1020	14. 52	·02616			
3. 22	36. 45	3. 55	·1008		·02560			
4. 10	33. 10	4. 30	·1013	16. 30	·02585			
4. 40	34. 30	4. 45	·1007	20. 14	·02562			
4. 58	32. 20	5. 0	·1013	21. 57	·02597			
5. 10	32. 30	5. 25	·1002	23. 37	·02530			
5. 36	31. 10	7. 3	·1015		(†)			
7. 43	29. 20	7. 14	·1027					
9. 41	28. 30		***					
10. 40	29. 5	12. 15	·1042					
11. 26	27. 50		***					
12. 12	28. 10	14. 0	·1058					
12. 30	27. 0	15. 0	·1050					
12. 50	28. 50	15. 30	·1056					
13. 21	27. 40	16. 40	·1055					
13. 40	26. 30	17. 29	·1045					
13. 50	26. 50	19. 0:	·1059					
14. 12	23. 0		***					
14. 44	28. 0	21. 0	·1028					
15. 22	27. 50	21. 30	·1032					
15. 52	36. 10	22. 15	·1024					
16. 22	27. 50	23. 59	·1033					
16. 45	26. 40							
17. 22	27. 0							
18. 28	25. 0							
19. 22	26. 0							
20. 13	25. 0							
20. 47	23. 30							
21. 10	25. 20							
21. 26	25. 30							
21. 59	27. 30							
22. 40	28. 0							
23. 59	33. 30							
July 16		July 16		July 16		July 16		
0. 0	21. 33. 30	0. 0	·1033		(†)	1. 0	73 ·3	75 ·0
0. 11	34. 20	0. 15	·1037	1. 0	·02474*	3. 0	73 ·0	75 ·0
0. 26	33. 40	0. 46	·1056	1. 25	·02460	9. 0	70 ·0	71 ·0
0. 44	35. 5	1. 0	·1052	1. 58	·02452	21. 0	66 ·0	68 ·0
1. 3	33. 40	1. 16	·1065	7. 0	·02647			
1. 28	35. 30	1. 31	·1058		·02592			
1. 45	34. 30	2. 14	·1068	14. 13	·02556			
2. 21	35. 30	2. 21	·1063	16. 25	·02570			
2. 31	34. 40	2. 47	·1074	21. 31	·02553			
2. 59	35. 30	3. 0	·1067	23. 59	·02407			

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 16		July 16						
h m	° ′ ″	h m		h m		h m	°	°
3. 43	21. 33. 30	3. 23	·1068					
3. 51	34. 0	3. 36	·1083					
4. 5	32. 30	3. 55	·1071					
4. 28	32. 30		***					
4. 42	31. 35	6. 0	·1078					
6. 16	29. 15		***					
7. 30	28. 40	7. 40	·1074					
7. 45	29. 30		***					
7. 58	29. 0	9. 25	·1078					
8. 10	29. 30		***					
8. 53	29. 30	11. 0	·1077					
9. 13	28. 30	11. 25	·1084					
9. 53	29. 15	11. 36	·1077					
10. 50	28. 30	12. 12	·1071					
11. 0	26. 0	14. 45	·1084					
11. 29	24. 45	16. 0	·1084					
11. 48	26. 40	17. 15:	·1093					
12. 8	25. 30	21. 7	·1068					
12. 40	27. 10	21. 45	·1068					
12. 58	25. 30	22. 30	·1051					
13. 10	27. 30	22. 50	·1052					
14. 45	28. 20		***					
15. 26	27. 25	23. 59	·1054					
15. 59	26. 20							
16. 29	26. 15							
16. 58	26. 30							
17. 10	25. 30							
18. 53	23. 0							
19. 5	23. 45							
19. 43	23. 30							
21. 26	27. 30							
21. 54	27. 35							
22. 43	30. 5							
22. 50	29. 15							
22. 55	30. 10							
23. 16	29. 5							
23. 30	30. 30							
23. 59	32. 35							
July 17		July 17		July 17		July 17		
0. 0	21. 32. 35	0. 0	·1053	0. 0	·02407	1. 0	69 ·4	71 ·0
0. 15	33. 30		***	1. 25	·02127	3. 0	72 ·0	73 ·4
1. 56	35. 5	2. 30	·1036	2. 50	·01670	9. 0	75 ·0	75 ·8
3. 16	34. 30	3. 19	·1044	6. 30	·01772	22. 23	63 ·0	64 ·0
4. 42	32. 30	4. 15	·1034	9. 22	·01722			
5. 43	30. 0	4. 30	·1036	10. 25:	·01786			
6. 11	30. 5	4. 55	·1033	13. 52	·02616			
7. 28	28. 35	5. 44	·1039		·02540			
11. 15	29. 10	7. 14	·1056	18. 25	·02560			
	(†)		***	21. 36	·02540			
16. 12	28. 0	9. 55	·1053	23. 59	·02396			
16. 32	27. 25		***					
16. 58	27. 20	13. 30	·1062					
	***	17. 0	·1075					
18. 45	23. 45		***					
20. 10	22. 45	20. 28	·1071					
21. 7	23. 30		***					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 17		July 17						
h m	° ′ ″	h m		h m		h m	°	°
22. 7	21. 27. 25	23. 59	·1062					
23. 59	31. 30							
July 18		July 18		July 18		July 18		
0. 0	21. 31. 30	0. 0	·1062	0. 0	·02396	7. 40	74 ·5	74 ·5
0. 57	33. 15	1. 17	·1056	1. 44	·02107	21. 0	65 ·0	66 ·0
2. 17	33. 30	2. 5	·1042	3. 11	·01684			
4. 10	31. 45	2. 20	·1048	5. 52	·01736			
6. 40	28. 55	3. 10	·1052	8. 52	·01690			
9. 26	28. 20	4. 6	·1038	10. 2:	·01766			
9. 43	28. 50	4. 39	·1043	11. 53	·02032			
14. 43	28. 0	5. 0	·1040	14. 28	{ ·02594			
15. 40	28. 30		***		{ ·02504			
16. 26	26. 15	6. 10	·1050	16. 45	·02530			
17. 13	26. 20		***	20. 2	·02510			
17. 40	24. 30	8. 50	·1050	21. 7	{ ·02532			
18. 5	24. 10	11. 31	·1058		{ ·02433			
20. 11	25. 0	13. 21	·1068	22. 33	·02372			
20. 56	26. 20	13. 30	·1065	23. 59	·02164			
21. 43	29. 20	15. 40	·1080					
22. 12	29. 35	17. 40:	·1084					
23. 10	32. 45	19. 5	·1070					
23. 47	33. 15	19. 40	·1071					
23. 59	32. 40	21. 7	·1056					
		22. 45	·1059					
		23. 59	·1057					
July 19		July 19		July 19		July 19		
0. 0	21. 32. 40	0. 0	·1057	0. 0	·02164	1. 0	70 ·0	71 ·4
2. 54	31. 45	0. 45	·1058	1. 44	{ ·01670	3. 0	71 ·0	72 ·3
3. 15	32. 25	1. 10	·1049		{ ·01740	9. 0	72 ·7	73 ·7
6. 50	28. 30	1. 35	·1049	7. 42	·01706	21. 0	65 ·0	64 ·7
7. 45	28. 30	2. 0	·1054	9. 32:	·01704			
8. 28	27. 10		***	11. 44	·01982			
8. 53	29. 0	3. 40	·1044	14. 15	{ ·02566			
10. 5	29. 35	5. 15	·1049		{ ·02493			
10. 25	28. 40	6. 30	·1068	18. 11	·02477			
11. 0	30. 0	6. 45	·1065	21. 3	·02512			
12. 52	28. 40	7. 10	·1075	23. 59	·02256			
13. 45	29. 30	8. 0	·1060					
14. 2	28. 45		***					
14. 30	31. 55	9. 54	·1071					
14. 51	29. 55	10. 10	·1063					
14. 57	30. 30	10. 57	·1071					
15. 13	29. 15	11. 30	·1066					
15. 30	29. 55		***					
16. 7	26. 30	12. 45	·1070					
16. 15	25. 30	13. 0	·1076					
16. 42	27. 0	14. 10	·1072					
17. 6	25. 0	14. 40	·1081					
17. 21	26. 0	16. 27	·1084					
18. 15	24. 55	17. 50:	·1086					
18. 21	25. 40	18. 38	·1074					
	***	19. 12	·1078					
18. 52	24. 0		***					
19. 11	24. 40	20. 40	·1054					
19. 13	24. 0	23. 40	·1057					
19. 23	26. 30	23. 59	·1049					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 19								
h m	° ′ ″	h m		h m		h m	°	°
19. 44	21. 23. 30							
19. 51	24. 30							
20. 6	24. 30							
20. 40	25. 45							
20. 56	27. 40							
22. 13	29. 30							
23. 43	34. 0							
23. 50	33. 45							
23. 59	34. 5							
July 20		July 20		July 20		July 20		
0. 0	21. 34. 5	0. 0	·1049	0. 0	·02256	1. 0	69 ·5	69 ·5
0. 31	35. 50	0. 35	·1049	1. 1	·02047	3. 0	72 ·0	71 ·8
0. 51	35. 40	1. 0	·1043	2. 31:	·01607	9. 0	75 ·2	74 ·5
1. 0	36. 30	1. 45	·1055	5. 12	·01750	21. 0	66 ·2	67 ·7
1. 13	36. 0	2. 0	·1050	7. 26	·01772			
1. 40	37. 20	2. 16	·1068	11. 13:	·01700			
2. 5	37. 10	2. 39	·1043	15. 54	·02164			
2. 12	39. 30	3. 5	·1064	18. 49	{ ·02600			
2. 36	36. 40	3. 15	·1038		{ ·02530			
2. 56	37. 30		***	23. 59	·02450			
3. 13	34. 45	4. 11	·1061					
3. 30	35. 50	5. 9	·1045					
3. 39	35. 30	5. 25	·1050					
3. 58	36. 30	5. 45	·1050					
4. 29	33. 30	6. 2	·1047					
4. 39	33. 40	6. 50	·1061					
5. 10	30. 0	7. 10	·1058					
5. 26	29. 40		***					
5. 45	30. 50	10. 15	·1060					
6. 13	30. 50	10. 45	·1064					
6. 37	30. 5	12. 30	·1067					
6. 44	30. 45	13. 10	·1063					
7. 31	28. 30	14. 15	·1070					
7. 40	28. 45	17. 15	·1071					
8. 9	28. 0	18. 45	·1076					
8. 58	29. 0	20. 0:	·1077					
9. 26	28. 30	21. 40	·1054					
10. 28	29. 10	23. 59	·1053					
10. 50	27. 45							
11. 55	28. 40							
12. 12	28. 0							
14. 6	28. 20							
14. 31	27. 10							
17. 12	26. 10							
17. 46	28. 0							
18. 18	26. 30							
19. 15	25. 0							
	***							
21. 44	27. 20							
23. 13	31. 45							
23. 27	31. 50							
23. 59	32. 35							
July 21		July 21		July 21		July 21		
0. 0	21. 32. 35	0. 0	·1054	0. 0	·02450	1. 0	66 ·0	67 ·2
1. 39	33. 0	1. 0	·1066	2. 15:	·02493	3. 0	67 ·0	68 ·4
6. 39	28. 10	2. 30	·1061	6. 58	·01847	9. 0	69 ·2	71 ·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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Readings of Thermometers. Of V.F. Magnet.
July 21		July 21		July 21		July 21	°	°
h m	° ′ ″	h m		h m		h m		
8. 14	21. 27. 30	3. 10	·1064	7. 6	·01864	21. 0	65·0	64·0
9. 40	27. 50	3. 27	·1061	9. 40:	·01755			
9. 52	28. 10	3. 40	·1065	14. 30	·02492			
10. 52	28. 10	4. 0	·1060		·02440			
11. 45	26. 40	4. 38	·1060	16. 31	·02479			
13. 15	28. 30	7. 0	·1071	20. 10	·02470			
14. 53	28. 30	7. 25	·1071	21. 30	·02494			
15. 41	27. 0	8. 15	·1075	23. 45	·02307			
15. 52	27. 0	9. 24	·1073		(†)			
16. 52	25. 30	9. 44	·1077					
17. 13	26. 5	10. 15	·1075					
18. 10	24. 15	10. 40	·1080					
19. 18	26. 20	12. 20	·1078					
20. 18	24. 45	14. 55	·1088					
20. 34	25. 0	15. 15	·1086					
20. 52	24. 0	16. 30	·1087					
22. 13	30. 15	17. 28:	·1092					
23. 30	33. 10	19. 0	·1082					
	(†)	20. 8	·1082					
			***					
		22. 0	·1065					
			***					
		23. 15	·1061					
		23. 55	·1066					
		23. 59	·1071					
July 22		July 22		July 22		July 22		
	(†)	0. 0	·1071		(†)	1. 0	67·9	67·4
1. 0	21. 34. 46*	0. 40	·1074	0. 30	·01926	3. 0	69·4	70·0
3. 0	33. 39*	1. 0	·1068	1. 37	·01608	9. 0	70·0	70·3
4. 12	32. 40	1. 40	·1071	2. 56	·01632	21. 0	66·5	67·3
6. 10	29. 5	2. 19	·1061	6. 36:	·01586			
11. 26	29. 0	2. 48	·1069	13. 0	·01986			
11. 52	28. 10	3. 40	·1064	19. 10:	·02200			
16. 6	26. 5	7. 50	·1081	21. 12	·02107			
16. 53	24. 30	8. 15	·1080		(†)			
17. 21	25. 30	10. 40	·1080					
17. 52	24. 25	16. 15	·1093					
19. 15	23. 25	17. 20	·1093					
19. 44	22. 20	20. 46	·1076					
20. 10	22. 20	22. 41	·1060					
21. 36	24. 30	22. 58	·1062					
23. 18	32. 5	23. 56	·1064					
	(†)	23. 59	·1061					
July 23		July 23		July 23		July 23		
	(†)	0. 0	·1062		(†)	1. 0	70·0	71·6
0. 21	21. 36. 0	1. 30	·1049	0. 50	·01886	3. 0	73·0	74·0
0. 39	37. 20	3. 47	·1061	1. 54	·01667	9. 0	70·0	71·0
2. 16	36. 30	4. 15	·1059	4. 6	·01742	21. 0	65·8	67·0
3. 29	33. 20	5. 0	·1067	6. 53	·01704			
5. 46	29. 10	5. 40	·1060	8. 21	·01773			
6. 44	28. 30	6. 5	·1063	13. 51	·02625			
11. 52	28. 30	7. 0:	·1060		·02547			
15. 12	27. 0	9. 24	·1071	16. 24	·02582			
16. 43	24. 45		***	22. 27	·02529			
	***	12. 45	·1078	23. 59	·02136			
16. 59	23. 30		***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Readings of Thermometers. Of V.F. Magnet.
July 23		July 23				July 24		
h m	° ′ ″	h m		h m		h m	°	°
17. 12	21. 23. 0	17. 30:	·1091					
17. 21	24. 30	19. 40	·1082					
17. 40	22. 0	20. 30	·1084					
17. 43	24. 20	21. 28	·1080					
	***	21. 55	·1083					
18. 39	23. 35	22. 10	·1076					
18. 50	22. 30	23. 59	·1071					
18. 55	23. 30							
19. 39	21. 30							
19. 58	23. 0							
20. 30	21. 0							
20. 44	22. 45							
22. 13	26. 30							
	(†)							
July 24		July 24		July 24		July 24		
	(†)	0. 0	·1071	0. 0	·02136	1. 0	68·8	70·0
0. 33	21. 35. 30		***	4. 13	·01680	3. 0	70·0	71·2
1. 30	37. 0	1. 10	·1075	9. 36	·01654	9. 0	70·5	71·4
2. 32	36. 50	1. 45	·1083	11. 39	·01673	21. 15	63·8	65·0
3. 0	35. 20	2. 12	·1082	13. 54:	·01773			
3. 52	34. 50	2. 44	·1089	17. 53	·02518			
4. 15	33. 45	3. 0	·1083		·02430			
4. 59	33. 30	3. 31	·1075	20. 13	·02454			
5. 40	30. 50	3. 55	·1079	23. 59	·02428			
5. 45	30. 55	4. 5	·1074					
6. 45	28. 30	4. 29	·1085					
6. 53	28. 40	5. 0	·1081					
7. 41	26. 50	5. 14	·1085					
7. 56	27. 30	5. 39	·1073					
9. 6	27. 40	6. 0	·1087					
9. 43	27. 25		***					
	(†)	8. 26	·1083					
14. 18	27. 0		***					
15. 10	27. 5	11. 55	·1087					
	***	14. 15:	·1074					
17. 52	21. 30	16. 15:	·1082					
18. 12	21. 40	18. 30	·1076					
18. 26	23. 5	18. 54	·1068					
18. 40	22. 0	20. 30	·1068					
19. 0	22. 30	20. 45	·1078					
19. 15	22. 30	22. 40	·1082					
19. 45	24. 35	23. 41	·1074					
21. 12	24. 35	23. 59	·1076					
23. 1	32. 30							
23. 29	33. 10							
23. 59	36. 0							
July 25		July 25		July 25		July 25		
0. 0	21. 36. 0	0. 0	·1077	0. 0	·02428	7. 35	69·6	70·2
0. 25	37. 0	1. 0	·1070	1. 40:	·02397	21. 0	65·5	65·0
1. 32	37. 0	1. 43	·1072	6. 29	·01617			
3. 24	33. 25	2. 40	·1066	10. 50	·01595			
3. 30	33. 50	3. 8	·1075	18. 13	·02530			
6. 40	28. 40	3. 24	·1068		·02452			
7. 11	28. 30	3. 31	·1075	21. 20	·02490			
8. 13:	26. 30	4. 35	·1078	23. 59	·02317			
9. 0	27. 30	5. 42	·1074					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July25		July25						
h m	° ′ ″	h m		h m		h m	°	°
9. 30	21. 26. 50	6. 15	·1080					
9. 59	24. 30		***					
10. 30	26. 30	9. 20	·1075					
11. 26	28. 40	9. 55	·1081					
13. 30	27. 30	10. 5	·1077					
	***	14. 50	·1088					
14. 45	28. 25	15. 14	·1086					
15. 9	27. 0	16. 53	·1096					
15. 52	27. 50	18. 0	·1094					
	***		***					
17. 45	23. 40	19. 7	·1069					
17. 53	25. 50	19. 51	·1079					
18. 10	23. 30	20. 25	·1068					
18. 14	25. 15	20. 35	·1072					
18. 27	23. 10	20. 52	·1070					
19. 25	30. 30	21. 25	·1070					
19. 45	30. 0	21. 36	·1062					
20. 7	25. 0	22. 0	·1060					
20. 15	28. 30	23. 0	·1064					
20. 32	29. 25	23. 15	·1061					
20. 51	28. 25	23. 44	·1045					
20. 59	29. 30	23. 59	·1054					
21. 27	29. 45							
21. 40	28. 30							
21. 52	30. 30							
22. 56	31. 45							
23. 42	35. 30							
23. 59	38. 20							
July26		July26		July26		July26		
0. 0	21. 38. 20	0. 0	·1054	0. 0	·02317	1. 0	67 ·0	67 ·5
0. 10	39. 30	0. 25	·1051	3. 49	·01659	3. 0	68 ·2	68 ·8
0. 57	41. 20	0. 45	·1059	5. 51	·01780	9. 0	70 ·0	71 ·6
1. 10	41. 0	1. 2	·1075	9. 45	·01643	21. 0	64 ·5	65 ·6
2. 0	44. 20	1. 30	·1068	11. 11	·01703			
2. 43	41. 50	1. 45	·1073	16. 54	·02577			
3. 3	43. 0	2. 40	·1046		·02503			
	***	3. 15	·1070	22. 39	·02500			
3. 52	39. 40	3. 30	·1071	23. 59	·02357			
3. 57	40. 30	3. 39	·1062					
4. 12	39. 10	3. 45	·1062					
4. 20	39. 15	3. 47	·1051					
4. 30	38. 30	4. 0	·1068					
4. 56	39. 20	4. 7	·1061					
	***	4. 30	·1088					
5. 27	37. 50	4. 45	·1092					
5. 50	28. 30	5. 0	·1086					
6. 10	25. 0		***					
6. 40	29. 50	5. 24	·1089					
7. 9	29. 0	5. 43	·1040					
7. 41	30. 15	6. 25	·1077					
8. 14	30. 5	6. 53	·1053					
8. 35	31. 20	7. 30	·1071					
9. 14	28. 25	8. 5	·1063					
9. 30	29. 30	8. 15	·1070					
10. 4	26. 25	8. 31	·1072					
10. 22	28. 45	8. 37	·1069					
10. 43	25. 55		***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July26		July26						
h m	° ′ ″	h m		h m		h m	°	°
10. 51	21. 26. 25	9. 29	·1081					
11. 30	16. 0		***					
12. 0	21. 40	9. 58	·1075					
12. 12	20. 30	10. 12	·1087					
12. 59	24. 0	10. 30	·1081					
13. 21	23. 20	10. 55	·1081					
13. 55	24. 0	11. 15	·1073					
14. 10	26. 10	11. 30	·1084					
15. 0	26. 30	11. 51	·1084					
15. 22	27. 40	12. 3	·1075					
15. 36	27. 0	12. 44	·1067					
15. 41	27. 35	13. 54	·1078					
	***	14. 0	·1071					
17. 0	24. 40	14. 10	·1078					
17. 15	25. 45	14. 54	·1074					
17. 34	24. 0	16. 15	·1080					
	***	18. 30	·1077					
18. 7	23. 40	19. 45:	·1075					
18. 13	24. 45	21. 30:	·1054					
18. 21	22. 30	23. 15	·1053					
18. 56	21. 45	23. 30	·1064					
19. 0	22. 30		(†)					
19. 15	22. 5							
19. 40	22. 30							
19. 45	24. 10							
19. 56	22. 35							
20. 12	23. 30							
20. 30	23. 0							
20. 39	24. 15							
20. 42	22. 0							
20. 52	22. 0							
21. 30	28. 5							
22. 7	28. 45							
23. 15	32. 40							
23. 45	34. 45							
23. 59	34. 30							
July27		July27		July27		July27		
0. 0	21. 34. 30	0. 0	·1056	0. 0	·02357	1. 0	67 ·2	67 ·8
0. 42	35. 50		***	1. 37	·02124	3. 0	69 ·2	70 ·5
2. 12	34. 45	6. 9	·1080	3. 45	·01665	9. 0	69 ·3	71 ·3
3. 12	32. 20	7. 41	·1088		·01700	21. 0	64 ·5	66 ·5
5. 22	28. 20	7. 55	·1082	8. 0	·01630			
7. 12	26. 25	8. 55	·1084	9. 43	·01676			
7. 52	27. 30	9. 25	·1096	11. 36	·01818			
8. 44	27. 25	10. 6	·1079	17. 26	·02536			
9. 22	24. 10	10. 24	·1085		·02453			
9. 40	25. 5	10. 42	·1079	23. 59	·02470			
9. 45	24. 45	11. 30	·1078					
10. 7	26. 55	12. 0	·1085					
10. 21	26. 30		***					
10. 39	27. 25	13. 10	·1091					
11. 0	22. 20	13. 40	·1086					
11. 12	23. 20		***					
11. 40	22. 0	14. 15	·1091					
11. 57	25. 0	14. 58	·1089					
12. 12	25. 5	15. 29	·1100					
12. 29	26. 30	16. 27	·1100					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 27		July 27						
h m	° ′ ″	h m		h m		h m	°	°
13. 20	21. 23. 30	17. 35	·1096					
13. 40	22. 0	18. 7	·1090					
13. 52	24. 0	18. 40	·1095					
14. 10	24. 5	19. 0	·1089					
14. 27	25. 20	19. 30	·1089					
15. 0	33. 25	20. 28	·1074					
15. 40	30. 0	21. 12	·1075					
15. 54	28. 15	21. 54	·1084					
16. 10	28. 0	22. 13	·1078					
16. 43	25. 5	23. 5	·1080					
16. 52	26. 0	23. 22	·1087					
17. 26	22. 30	23. 53	·1072					
17. 36	23. 0		(†)					
18. 39	20. 20							
18. 44	21. 15							
19. 1	20. 50							
19. 22	20. 30							
20. 12	21. 45							
20. 40	25. 5							
20. 51	24. 50							
21. 29	27. 30							
21. 44	26. 25							
21. 52	27. 20							
22. 7	27. 5							
22. 26	28. 30							
23. 10	29. 30							
23. 24	32. 0							
23. 45	31. 30							
23. 59	32. 30							
July 28		July 28		July 28		July 28		
0. 0	21. 32. 30	0. 0	·1074	0. 0	·02470	1. 0	65·8	67·0
0. 30	33. 5	0. 20	·1078	1. 37	·02427	3. 0	67·3	68·6
1. 54	37. 50	0. 45	·1072	5. 50	·01740	9. 0	68·0	68·8
2. 7	37. 40	2. 13	·1078	6. 44	·01661	21. 0	60·5	60·4
2. 22	36. 10	2. 45	·1047		·01696			
2. 28	36. 40		***	9. 29:	·01673			
3. 28	33. 20	3. 40	·1068	11. 57	·01962			
	***	3. 54	·1057	14. 28	·02440			
5. 30	31. 30		***		·02388			
5. 45	32. 45	4. 54	·1063	16. 21	·02344			
6. 28	28. 30	5. 0	·1060		(†)			
7. 0	29. 40	5. 15	·1067	21. 0	·02415*			
7. 44	28. 45	5. 30	·1064	21. 24	·02390			
8. 5	29. 20	5. 45	·1077	22. 42	·02393			
8. 43	28. 20	6. 0	·1069	23. 59	·02259			
9. 10	28. 30	6. 35	·1073					
9. 43	23. 30	6. 45	·1078					
10. 0	25. 20		***					
10. 14	25. 0	7. 7	·1071					
10. 33	27. 30		***					
10. 52	25. 10	8. 0	·1076					
11. 9	25. 30	8. 10	·1073					
11. 34	24. 5	8. 16	·1079					
11. 50	26. 30	8. 30	·1070					
12. 5	26. 20	9. 30	·1072					
12. 41	27. 20	9. 45	·1076					
13. 14	29. 55	10. 6	·1072					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 28		July 28						
h m	° ′ ″	h m		h m		h m	°	°
13. 52	21. 29. 45	10. 24	·1076					
14. 30	33. 30	10. 35	·1071					
14. 55	28. 50	12. 45	·1079					
15. 15	29. 30	13. 55	·1089					
15. 27	28. 50	14. 10	·1086					
15. 45	29. 0	14. 39	·1096					
16. 7	27. 15	14. 50	·1091					
16. 28	24. 0	15. 15	·1093					
16. 52	25. 0	15. 46	·1103					
17. 0	23. 45	16. 19	·1093					
17. 10	23. 40		***					
17. 13	24. 30	17. 14	·1100					
	***		***					
17. 45	22. 40	18. 35	·1096					
	***	19. 14	·1062					
18. 4	25. 20	19. 42	·1079					
18. 15	22. 20	20. 0	·1077					
18. 18	24. 0		***					
18. 32	24. 0	20. 45	·1088					
19. 36	35. 20		***					
19. 45	35. 5	22. 10	·1080					
20. 0	32. 30		***					
20. 13	32. 45	23. 16	·1065					
20. 30	29. 30		***					
22. 10	27. 0	23. 59	·1069					
23. 13	33. 30							
23. 21	33. 35							
23. 40	35. 10							
23. 59	35. 0							
July 29		July 29		July 29		July 29		
0. 0	21. 35. 0	0. 0	·1069	0. 0	·02259	1. 0	63·5	64·6
0. 38	36. 45	1. 15	·1061	2. 44	·01613	3. 0	65·8	67·0
0. 44	34. 55	1. 55	·1043	5. 48	·01672	9. 0	67·5	68·5
2. 12	37. 5	2. 16	·1051	9. 24	·01600	21. 0	61·0	61·8
2. 40	36. 0	2. 38	·1048	11. 14	·01686			
2. 44	36. 20	2. 46	·1057	13. 30	·01940			
3. 10	33. 40	3. 5	·1049	16. 0	·02332			
3. 14	33. 45	3. 30	·1052	16. 15	·02348			
3. 30	32. 30	3. 50	·1061	16. 52	·02427			
3. 43	32. 30		***		·02360			
4. 44	29. 30	4. 41	·1059	17. 45	·02407			
7. 13	28. 10		***	20. 29	·02406			
7. 28	29. 5	5. 24	·1070	22. 15:	·02470			
7. 40	28. 20	5. 30	·1063	23. 59	·02300			
8. 40	28. 20	5. 52	·1079					
9. 2	30. 10	6. 40	·1073					
9. 41	25. 20	7. 3	·1063					
9. 51	25. 50	7. 25	·1070					
10. 13	25. 30	7. 30	·1066					
10. 59	28. 0	8. 0	·1069					
11. 15	26. 30	8. 16	·1063					
11. 31	26. 30	9. 0	·1066					
12. 13	24. 10	9. 30	·1063					
12. 29	29. 0	9. 50	·1068					
12. 58	29. 0	10. 35	·1064					
13. 50	26. 10	11. 15	·1071					
	***	11. 45	·1064					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 29 h m	° ′ ″	July 29 h m		h m		h m	°	°
14. 12	21. 26. 0	12. 17	·1071					
15. 0	23. 0	12. 33	·1066					
15. 28	28. 30	13. 30	·1078					
15. 40	27. 30	13. 36	·1074					
15. 52	31. 0		***					
16. 14	22. 40	15. 15	·1079					
16. 24	23. 40		***					
16. 38	21. 30	16. 22	·1102					
16. 56	22. 0		***					
17. 14	25. 30	16. 55	·1087					
17. 44	30. 30		***					
18. 6	30. 35	17. 39	·1094					
18. 14	32. 30	18. 5	·1079					
18. 37	27. 30		***					
	***	19. 30	·1053					
18. 53	29. 45	19. 45	·1058					
19. 0	28. 10	19. 55	·1052					
	***		***					
19. 25	37. 0	20. 34	·1065					
19. 36	37. 20	20. 50	·1065					
19. 51	36. 0	21. 0	·1059					
19. 58	32. 30		***					
20. 22	29. 20	22. 0	·1062					
20. 33	31. 0	22. 10	·1071					
20. 42	30. 0		***					
	***	22. 55	·1060					
22. 7	30. 40		***					
	***	23. 59	·1057					
22. 50	33. 20							
23. 43	37. 20							
23. 59	36. 40							
July 30		July 30		July 30		July 30		
0. 0	21. 36. 40	0. 0	·1057	0. 0	·02300	1. 0	64 ·8	66 ·0
0. 41	35. 50	0. 40	·1056	0. 30	·02115	3. 0	67 ·6	68 ·7
0. 56	37. 20	0. 56	·1071	2. 13	·01670	9. 0	69 ·3	71 ·0
1. 7	36. 30	1. 25	·1065	2. 46	{·01713	21. 0	63 ·5	64 ·6
1. 22	37. 0	1. 45	·1049		{·02086			
1. 52	35. 15	2. 10	·1062	4. 13	·01854			
2. 15	36. 10	2. 25	·1082	5. 37	·01800			
2. 26	39. 30	2. 45	·1065	6. 13	·01818			
2. 44	37. 10	2. 55	·1070	9. 10	·01700			
3. 0	38. 10	3. 10	·1057	11. 29	·01707			
3. 11	37. 20	3. 36	·1055	11. 43	·01727			
3. 21	37. 30	3. 59	·1075	12. 6	·01664			
3. 40	36. 25	4. 25	·1054	16. 0	·02306			
3. 51	39. 0	4. 58	·1058	17. 12	{·02542			
4. 13	35. 0	5. 14	·1075		{·02480			
4. 35	34. 20	5. 23	·1068	21. 24	·02518			
5. 12	35. 10	5. 35	·1077	22. 28	·02555			
5. 22	33. 30	5. 45	·1074	23. 53	·02422			
5. 56	30. 30	5. 55	·1060		(†)			
6. 5	30. 35	6. 10	·1060					
6. 39	25. 0	6. 30	·1074					
6. 58	28. 20	6. 45	·1069					
7. 12	29. 0	7. 2	·1075					
7. 30	28. 40	7. 17	·1074					
7. 58	21. 0	7. 43	·1055					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 30 h m	° ′ ″	July 30 h m		h m		h m	°	°
8. 6	21. 21. 30	7. 53	·1066					
8. 10	21. 20	8. 8	·1062					
8. 26	24. 0	8. 20	·1051					
8. 40	17. 20	8. 35	·1068					
9. 10	22. 0	8. 55	·1071					
9. 15	21. 20	9. 13	·1062					
9. 39	25. 30		***					
10. 30	27. 25	10. 32	·1067					
10. 56	26. 40	10. 55	·1076					
11. 10	25. 0	11. 15	·1073					
11. 15	25. 45	11. 25	·1063					
11. 29	24. 10	11. 40	·1080					
11. 45	36. 0	12. 0	·1062					
12. 13	28. 30	12. 27	·1060					
12. 43	21. 40	12. 55	·1068					
13. 15	23. 30		***					
13. 44	23. 20	15. 36	·1071					
14. 0	24. 30	16. 39	·1081					
14. 39	24. 30	17. 0	·1089					
15. 27	32. 45	17. 45	·1079					
16. 12	30. 0	18. 15	·1079					
16. 49	29. 30	20. 0	·1063					
17. 0	30. 30	20. 25	·1066					
17. 44	26. 0	21. 59	·1049					
	***	22. 46	·1061					
18. 40	26. 30		***					
18. 58	24. 30	23. 59	·1060					
	***							
20. 8	23. 30							
21. 28	26. 20							
21. 52	25. 55							
	***							
23. 2	29. 15							
	***							
23. 59	33. 45							
July 31		July 31		July 31		July 31		
0. 0	21. 33. 45	0. 0	·1060·		(†)	1. 0	66 ·5	67 ·8
	***		***	1. 0	·02313*	3. 0	68 ·8	70 ·8
1. 52	35. 0	3. 51	·1068	1. 22	·02207	9. 0	73 ·2	73 ·8
4. 44	31. 30	4. 10	·1078	3. 0	{·01700	22. 0	66 ·5	66 ·5
5. 0	30. 5	4. 38	·1066		{·01746			
5. 40	29. 35	4. 55	·1071	6. 42	·01776			
	(†)	5. 45	·1071	10. 40:	·01710			
9. 0	27. 12*		(†)	13. 15	·01977			
22. 0	25. 10*	9. 0	·1078*	16. 36	{·02597			
		22. 0	·1062*		{·02527			
				17. 42	·02560			
				20. 25	·02566			
				21. 53	·02606			
				23. 26	·02526			
				23. 59	·02430			
Aug. 1		Aug. 1		Aug. 1		Aug. 1		
0. 0	21. 34. 5	0. 0	·1056	0. 0	·02430	8. 0	72 ·5	73 ·5
0. 25	36. 10	0. 20	·1054	1. 10	·02256	21. 0	62 ·5	64 ·3
	***	0. 30	·1060	3. 5	{·01740			
1. 39	36. 0	0. 45	·1064		{·01782			

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

Greenwich Mean Solar Time.	Western Declination	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 1		Aug. 1		Aug. 1		h m	°	°
h m	° ′ ″	h m		h m				
2. 30	21. 34. 20	2. 45	·1074	4. 30	·01793			
2. 45	35. 15	3. 30	·1072		***			
2. 51	34. 30	4. 7	·1061	7. 52:	·01760			
3. 0	34. 35	4. 36	·1081	13. 51	·02613			
3. 45	32. 40	4. 50	·1073		·02530			
4. 17	29. 10	5. 0	·1073	17. 40	·02569			
	***	5. 25	·1083	20. 30	·02540			
4. 50	28. 20	6. 2	·1081	22. 0	·02560			
4. 56	29. 5	6. 15	·1076	23. 59	·02435			
5. 13	28. 30	6. 29	·1078					
5. 26	29. 30	6. 44	·1075					
6. 36	29. 40	7. 0	·1096					
6. 40	30. 40	7. 20	·1082					
6. 57	22. 5	7. 55	·1063					
7. 28	28. 20	9. 41	·1074					
8. 0	28. 35	9. 53	·1078					
8. 13	27. 30	10. 12	·1072					
8. 59	27. 15	10. 30	·1072					
9. 20	28. 30	11. 12	·1085					
9. 43	27. 30	11. 32	·1078					
9. 58	24. 30	13. 2	·1078					
10. 28	27. 30	14. 15	·1084					
10. 50	24. 20	14. 53	·1079					
11. 22	27. 30	15. 45	·1086					
11. 43	26. 20	16. 40	·1082					
12. 2	26. 35	17. 45	·1086					
12. 30	24. 30	18. 10	·1078					
13. 0	26. 40	19. 9	·1081					
13. 45	25. 20	20. 10	·1076					
13. 52	26. 20	20. 50	·1066					
14. 51	24. 30	21. 45	·1060					
15. 30	27. 45	23. 0	·1062					
16. 59	25. 30		(†)					
17. 45	27. 0							
18. 10	24. 25							
18. 15	25. 30							
18. 45	23. 50							
19. 14	24. 40							
	***							
19. 55	23. 30							
20. 1	25. 0							
20. 16	23. 30							
20. 45	23. 30							
22. 15	27. 5							
23. 22	31. 50							
23. 52	31. 30							
23. 59	33. 25							
Aug. 2		Aug. 2		Aug. 2		Aug. 2		
0. 0	21. 33. 25		(†)	0. 0	·02435	1. 0	67 ·3	67 ·5
0. 20	33. 20	1. 40	·1068	3. 3	·01690	3. 0	71 ·0	69 ·0
0. 52	35. 30	2. 4	·1071		·01742	9. 0	71 ·4	72 ·8
1. 22	35. 15	2. 25	·1060	7. 35	·01695	21. 4	66 ·0	66 ·5
2. 0	35. 50	2. 55	·1074	9. 15:	·01683			
2. 13	33. 40	4. 8	·1071	14. 45	·02609			
2. 29	34. 20	4. 20	·1076		·02503			
2. 51	32. 30	4. 44	·1074	21. 45:	·02595			
3. 13	31. 50	5. 0	·1077	23. 59	·02337			

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F Magnet.	Of V. F. Magnet.
Aug. 2		Aug. 2		h m		h m	°	°
h m	° ′ ″	h m						
4. 31	21. 33. 0	5. 16	·1074					
6. 10	30. 30	5. 40	·1081					
7. 17	30. 20	7. 0	·1082					
7. 45	25. 30	7. 35	·1075					
8. 12	30. 0	7. 45	·1086					
8. 30	30. 20		***					
8. 49	28. 50	9. 0	·1074					
9. 22	28. 50	14. 11	·1089					
9. 40	30. 15		***					
11. 12	30. 0	17. 53	·1094					
12. 3	28. 40	18. 30	·1084					
12. 45	27. 50	19. 30	·1083					
13. 13	28. 0	20. 30:	·1068					
13. 28	28. 45		***					
13. 44	27. 40	23. 59	·1058					
14. 26	28. 0							
15. 41	25. 30							
16. 5	26. 0							
16. 22	24. 30							
18. 54	24. 10							
19. 6	22. 0							
19. 54	23. 40							
20. 8	23. 20							
21. 25	26. 30							
22. 22	26. 20							
23. 57	30. 30							
Aug. 3		Aug. 3		Aug. 3		Aug. 3		
0. 2	21. 31. 15	0. 0	·1058	0. 0	·02337	1. 0	70 ·5	70 ·5
0. 30	33. 5	0. 22	·1065	2. 25	·01680	3. 0	72 ·7	72 ·6
0. 55	31. 40	0. 46	·1054		·01740	9. 0	73 ·0	74 ·0
1. 31	33. 0	1. 30	·1054	3. 0	·01738	21. 0	66 ·0	67 ·4
2. 33	31. 30	2. 0	·1049		·01940			
3. 6	31. 40		***	4. 15:	·01795			
5. 10	28. 20	3. 10	·1062	6. 20	·01790			
6. 2	26. 50	4. 0	·1062		***			
6. 29	27. 20	5. 30	·1070	10. 0:	·01730			
6. 59	26. 30	6. 0	·1068	16. 30	·02649			
8. 40	28. 40	6. 28	·1074		·02560			
10. 30	28. 25	6. 54	·1070	23. 0	·02596			
11. 0	27. 10	7. 16	·1077	23. 59	·02510			
12. 10	28. 15	8. 15	·1071					
12. 51	25. 30	10. 33	·1068					
13. 15	28. 30	11. 45	·1072					
14. 21	23. 30	12. 15:	·1081					
14. 55	23. 30	13. 0	·1074					
15. 18	25. 30	13. 47	·1083					
15. 45	23. 30	14. 36	·1072					
16. 30	25. 30	15. 55	·1078					
16. 50	23. 10	17. 45:	·1089					
	***	19. 21	·1090					
18. 10	23. 30	19. 40	·1084					
18. 40	22. 30	20. 15	·1087					
18. 53	20. 35	20. 45	·1080					
19. 6	21. 30	22. 15	·1080					
19. 22	21. 40	22. 45	·1068					
	***	23. 59	·1060					
20. 13	25. 0							

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 3								
h m	° ′ ″	h m		h m		h m	°	°
20. 26	21. 27. 0							
20. 51	26. 10							
21. 55	28. 45							
22. 39	32. 40							
23. 13	33. 20							
23. 26	34. 55							
23. 59	36. 0							
Aug. 4		Aug. 4		Aug. 4		Aug. 4		
0. 0	21. 36. 0	0. 0	·1060	0. 0	·02508	1. 0	69 ·6	70 ·3
2. 39	35. 50		***	2. 45	{·01960	3. 0	71 ·0	72 ·4
3. 42	33. 20	5. 36	·1066		{·02125	9. 0	73 ·0	74 ·0
6. 28	28. 30	6. 30	·1073	4. 30	·01826	21. 0	69 ·2	70 ·3
7. 25	26. 20	7. 7	·1068	9. 30:	·01769			
7. 51	27. 40	7. 40	·1072	14. 0	·02285			
9. 28	28. 50	8. 0	·1069	18. 0	{·02680			
10. 13	26. 30		***		{·02585			
10. 43	26. 30	10. 38	·1080	20. 20	·02616			
10. 55	27. 55	11. 0	·1088	23. 0	·02500			
11. 15	26. 30	11. 30	·1079	23. 59	·02360			
11. 52	28. 0	12. 15	·1083					
12. 43	26. 50	14. 14	·1084					
13. 33	27. 40	14. 40	·1081					
13. 51	27. 0	16. 45	·1084					
14. 12	27. 30	17. 30	·1077					
14. 45	27. 10	19. 0:	·1082					
15. 29:	27. 20	22. 0	·1068					
16. 40	25. 0	23. 59	·1059					
	***							
18. 11	25. 30							
	***							
19. 15	24. 0							
19. 22	26. 45							
19. 30	24. 0							
19. 52	23. 15							
20. 10	24. 20							
20. 22	23. 0							
21. 40	24. 30							
22. 48	28. 45							
23. 59	29. 35							
Aug. 5		Aug. 5		Aug. 5		Aug. 5		
0. 0	21. 29. 35	0. 0	·1059	0. 0	·02360	1. 0	71 ·9	72 ·7
2. 43	32. 30	1. 6	·1048	2. 43	·01789	3. 0	73 ·4	74 ·6
4. 14	29. 20	3. 45	·1052	3. 0	{·01805	9. 0	74 ·4	75 ·5
5. 39	28. 25	4. 8	·1040		{·02170	21. 0	65 ·0	66 ·4
6. 51	26. 40	4. 30	·1046	7. 15:	·01880			
10. 51	27. 0	4. 51	·1047	12. 30	·02550			
11. 10	26. 0	5. 5	·1054	23. 53	·02549			
11. 53	26. 0	5. 47	·1056		(†)			
12. 22	23. 40	6. 0	·1060					
13. 15	28. 20	6. 15	·1054					
13. 42	26. 0		***					
14. 13	26. 15	8. 10	·1058					
14. 55	25. 0	8. 39	·1064					
15. 30	26. 45		***					
17. 25	25. 20	9. 30	·1060					
17. 34	26. 30	10. 0	·1065					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 5		Aug. 5						
h m	° ′ ″	h m		h m		h m	°	°
18. 28	21. 25. 20	11. 15	·1075					
19. 0	26. 30	11. 30	·1063					
19. 42	24. 30	12. 0	·1076					
19. 55	27. 20	12. 25	·1070					
20. 19	28. 0	13. 0	·1070					
21. 2	25. 30	13. 30	·1076					
22. 7	28. 0	14. 50	·1080					
22. 58	34. 0	17. 35	·1094					
23. 28	33. 0	18. 15	·1092					
23. 59	33. 30	18. 45	·1094					
		21. 10	·1085					
		21. 45	·1086					
		22. 0	·1080					
		22. 30	·1065					
		22. 55	·1074					
		23. 20	·1066					
		23. 59	·1062					
Aug. 6		Aug. 6		Aug. 6		Aug. 6		
0. 0	21. 33. 30	0. 0	·1062	0. 0	·02526	1. 0	66 ·7	68 ·2
0. 40	34. 10	0. 34	·1077		***	3. 0	68 ·4	70 ·0
0. 51	35. 40	0. 46	·1088	4. 8	·01910	9. 0	70 ·0	72 ·0
1. 11	34. 30	1. 15	·1078	7. 15	·01642	21. 0	63 ·5	64 ·4
1. 35	35. 40	1. 32	·1078	10. 0:	·01638			
2. 6	34. 45	1. 58	·1075	16. 44	{·02579			
2. 20	36. 10	2. 22	·1084		{·02510			
2. 35	35. 30	2. 36	·1078	22. 30:	·02505			
2. 42	36. 10	2. 45	·1082	23. 59	·02320			
3. 15	33. 35	3. 0	·1070					
3. 27	33. 55	3. 15	·1068					
4. 11	31. 20	3. 30	·1076					
4. 40	31. 35		***					
4. 55	30. 30	4. 6	·1066					
5. 14	30. 45	4. 34	·1075					
5. 51	30. 0	4. 45	·1072					
6. 14	28. 0	4. 53	·1078					
6. 24	24. 0	5. 6	·1077					
6. 40	26. 15	5. 23	·1084					
7. 0	24. 20	5. 31	·1081					
7. 19	25. 50	6. 10	·1082					
7. 40	25. 25	6. 22	·1092					
7. 54	26. 30	6. 47	·1076					
8. 10	25. 30	7. 0	·1079					
9. 7	27. 30	7. 25	·1077					
9. 21	26. 30	7. 39	·1078					
	***	7. 55	·1070					
10. 13	28. 20	8. 16	·1070					
10. 25	27. 30	8. 44	·1076					
10. 39	27. 25	9. 17	·1071					
10. 51	28. 20	9. 44	·1071					
11. 13	26. 5		***					
11. 52	25. 30	10. 37	·1074					
12. 12	22. 5	10. 55	·1080					
12. 27	23. 20		***					
12. 40	22. 30	11. 36	·1078					
13. 21	27. 20	11. 55	·1094					
14. 0	26. 20	12. 42	·1081					
14. 28	24. 35	12. 54	·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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 6		Aug. 6						
h m	° ′ ″	h m		h m		h m	°	°
15. 45	21. 25. 30	13. 17	·1074					
16. 19	24. 20	13. 55	·1080					
17. 26	26. 30	14. 30	·1078					
	***	16. 5	·1083					
18. 27	23. 40	17. 5	·1079					
19. 9	23. 25	17. 48	·1084					
19. 51	23. 50	21. 35	·1074					
21. 0	26. 30	23. 59	·1066					
22. 7	30. 40							
22. 41	32. 5							
23. 59	31. 40							
Aug. 7		Aug. 7		Aug. 7		Aug. 7		
0. 0	21. 31. 40	0. 0	·1065	0. 0	·02320	1. 0	68 ·0	68 ·8
2. 22	33. 15	0. 42	·1065	2. 52	·01610	3. 0	69 ·0	70 ·0
2. 30	32. 30	1. 25	·1058	5. 45:	·01709	9. 0	73 ·0	73 ·5
2. 52	32. 20		***	9. 40	·01630	21. 30	65 ·4	66 ·0
3. 52	29. 40	3. 36	·1056	15. 50	·02650			
5. 26	27. 0	4. 2	·1059		·02558			
6. 40	27. 20	4. 25	·1057	20. 30	·02540			
7. 39	26. 40		***	23. 45	·02500			
9. 20	28. 40	8. 20	·1062					
10. 35	27. 20		***					
13. 30	28. 20	10. 10	·1074					
14. 40	27. 20		***					
15. 12	27. 40	11. 55	·1075					
16. 28	26. 30	15. 30	·1085					
	***	17. 40	·1084					
19. 26	25. 30	18. 27	·1078					
19. 36	26. 30	18. 33	·1083					
20. 0	26. 10	18. 52	·1083					
21. 42	31. 30	19. 0	·1078					
22. 26	32. 20	19. 50	·1074					
23. 59	37. 5	20. 15	·1079					
		22. 15	·1076					
		22. 44	·1070					
		23. 40	·1074					
		23. 59	·1072					
Aug. 8		Aug. 8		Aug. 8		Aug. 8		
0. 0	21. 37. 5	0. 0	·1072	0. 0	·02460	7. 30	73 ·5	74 ·0
0. 12	37. 20	0. 36	·1068	4. 10	·01671	21. 0	63 ·0	64 ·7
1. 52	33. 30	1. 33	·1071	5. 45	·01710			
2. 30	33. 30	2. 10	·1064	9. 10:	·01680			
4. 16	28. 50	3. 8	·1064	14. 40	·02625			
5. 40	26. 40	3. 55	·1058		·02535			
9. 15	28. 20	4. 38	·1068	22. 0	·02530			
9. 52	27. 20	5. 0	·1068	23. 59	·02328			
10. 9	28. 10	5. 36	·1062					
16. 16	27. 0	6. 4	·1068					
17. 0	26. 15	6. 28	·1064					
17. 52	26. 45	7. 45	·1070					
	***	8. 5	·1074					
18. 41	26. 10		***					
18. 59	27. 10	9. 35	·1074					
19. 44	26. 20		***					
21. 7	27. 20	15. 55:	·1090					
22. 52	34. 35	17. 44	·1090					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 8		Aug. 8						
h m	° ′ ″	h m		h m		h m	°	°
23. 59	21. 35. 20	18. 0	·1086					
		18. 10	·1088					
		18. 21	·1083					
		18. 55	·1088					
		21. 0:	·1086					
		23. 59	·1076					
Aug. 9		Aug. 9		Aug. 9		Aug. 9		
0. 0	21. 35. 20	0. 0	·1076	0. 0	·02320	1. 0	67 ·7	69 ·3
2. 26	33. 30	1. 0	·1062	2. 30	·01640	3. 0	72 ·0	73 ·4
4. 27	29. 0	1. 55	·1066	3. 5	·01700	9. 0	74 ·8	75 ·4
5. 12	24. 50	2. 15	·1062		·01768	21. 0	66 ·5	67 ·0
7. 26	27. 10	2. 40	·1066	5. 30:	·01770			
8. 12	26. 30	4. 7	·1060	9. 30	·01689			
8. 52	28. 20	4. 30	·1066	14. 55	·02662			
11. 28	29. 0	4. 45	·1063		·02580			
11. 53	28. 0		***	20. 0	·02580			
13. 22	28. 0	6. 0	·1058	21. 39	·02609			
14. 14	27. 0	6. 55	·1068	22. 40	·02540			
14. 37	27. 40		***	23. 59	·02398			
15. 7	26. 20	9. 36	·1071					
15. 52	27. 5	11. 35	·1088					
	***	11. 47	·1082					
17. 45	25. 0	12. 0	·1090					
17. 56	22. 40	12. 13	·1087					
18. 41	21. 45	13. 29	·1094					
	***	15. 15	·1094					
19. 13	22. 30	16. 30	·1099					
19. 31	26. 30	17. 32	·1091					
19. 52	24. 0	18. 12	·1094					
20. 0	26. 30	19. 7	·1086					
20. 14	25. 15	19. 25	·1092					
21. 29	30. 30	19. 45	·1086					
21. 40	30. 25	20. 47	·1096					
22. 7	32. 35	21. 5	·1092					
23. 43	36. 40	22. 5	·1108					
23. 59	36. 25	23. 30	·1094					
		23. 59	·1081					
Aug. 10		Aug. 10		Aug. 10		Aug. 10		
0. 0	21. 36. 25	0. 0	·1081	0. 0	·02398	1. 0	70 ·4	72 ·0
0. 17	37. 20	0. 8	·1081	2. 30	·01770	3. 0	73 ·5	74 ·5
0. 43	36. 30	0. 13	·1088		·01820	9. 0	76 ·2	77 ·4
1. 0	37. 20	0. 41	·1070	3. 0	·01834	21. 0	68 ·4	69 ·5
1. 44	37. 40	1. 9	·1082		·02260			
2. 42	34. 55	1. 38	·1083	4. 10	·01968			
2. 47	35. 40	2. 0	·1071	9. 15:	·01788			
3. 40	35. 5	2. 37	·1066	15. 15	·02670			
4. 29	28. 30	2. 57	·1083		·02605			
	***	3. 14	·1080	20. 15	·02650			
5. 30	30. 0	3. 39	·1084		·02520			
5. 44	29. 0	4. 14	·1072	21. 35	·02500			
5. 56	29. 0	4. 44	·1090	23. 59	·02360			
6. 22	27. 5	4. 52	·1083					
8. 5	27. 30	5. 23	·1076					
8. 30	28. 30	5. 35	·1082					
9. 7	25. 30	6. 6	·1068					
10. 10	28. 40	6. 25	·1075					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 10		Aug. 10						
h m	° ′ ″	h m		h m		h m	°	°
10. 40	21. 27. 0	6. 50	·1074					
11. 12	26. 50	7. 24	·1078					
12. 11	30. 10	7. 30	·1083					
12. 40	28. 30	8. 12	·1085					
16. 45	26. 20	8. 30	·1078					
17. 29	24. 10	8. 50	·1086					
19. 58	21. 15	9. 2	·1083					
21. 40	23. 20		***					
23. 3	29. 10	10. 0	·1088					
23. 59	31. 40	10. 25	·1079					
			***					
		11. 25	·1077					
		12. 0	·1092					
		13. 0	·1083					
			***					
		15. 25	·1088					
		18. 30	·1092					
		21. 0	·1077					
		22. 24	·1072					
		23. 59	·1080					
Aug. 11		Aug. 11		Aug. 11		Aug. 11		
0. 0	21. 31. 40	0. 0	·1080	0. 0	·02360	1. 0	71 ·2	72 ·6
1. 59	34. 15	1. 54	·1082	2. 50	·01803	3. 0	73 ·0	75 ·5
3. 2	32. 10	2. 20	·1083	6. 15	·01860	9. 0	76 ·5	77 ·0
4. 22	30. 45	3. 0	·1070	9. 0:	·01800	21. 0	68 ·5	70 ·5
4. 38	30. 0	3. 15	·1070	14. 40	·02710			
5. 22	28. 30	3. 40	·1078		·02640			
5. 52	24. 45	4. 11	·1071	20. 55	·02650			
6. 31	26. 50	4. 17	·1076		·02558			
6. 56	25. 30	4. 26	·1068	22. 45:	·02390			
7. 35	27. 30	4. 45	·1076	23. 59	·02110			
	***	5. 23	·1070					
8. 22	22. 45	6. 14	·1082					
9. 6	26. 40	7. 0	·1067					
13. 52	26. 55	7. 12	·1068					
16. 11	25. 30	7. 22	·1063					
17. 56	22. 0	8. 0	·1062					
18. 52	21. 25	8. 11	·1068					
19. 4	22. 30	8. 32	·1065					
19. 15	21. 40	9. 25	·1073					
20. 14	23. 15	10. 0	·1071					
20. 45	26. 20	11. 14	·1079					
22. 56	31. 40	11. 16	·1074					
23. 59	36. 10	11. 30	·1077					
		16. 0	·1084					
		18. 44	·1088					
		19. 10	·1082					
		19. 45	·1083					
		20. 0	·1095					
		21. 0	·1084					
		21. 30	·1093					
		22. 45	·1086					
		23. 59	·1060					
Aug. 12		Aug. 12		Aug. 12		Aug. 12		
0. 0	21. 36. 10	0. 0	·1059	0. 0	·02110	1. 0	74 ·2	75 ·3
1. 53	37. 10	0. 45	·1060	2. 10:	·01790	3. 0	77 ·0	78 ·0

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 12		Aug. 12						
h m	° ′ ″	h m		h m		h m	°	°
2. 53	21. 33. 55	0. 55	·1054	3. 25	·01850	9. 0	79 ·3	80 ·0
3. 54	33. 50	1. 9	·1060	6. 7	·01872	21. 0	67 ·5	69 ·0
4. 36	31. 40	2. 0	·1063		***			
5. 37	29. 30	2. 16	·1051	9. 30	·01793			
5. 58	27. 10	2. 41	·1048	11. 15:	·01860			
6. 22	26. 55	3. 30	·1063	15. 4	·02650			
6. 31	27. 45	4. 0	·1054		·02583			
6. 51	26. 50	4. 30	·1057	21. 14	·02610			
7. 3	27. 20	4. 37	·1052	22. 45:	·02640			
7. 22	26. 0	5. 0	·1062	23. 59	·02520			
7. 32	27. 35	5. 28	·1061					
8. 10	27. 55	5. 40	·1066					
8. 30	23. 0	6. 0	·1055					
8. 52	28. 0	6. 24	·1063					
9. 44	28. 30	6. 42	·1053					
10. 43	25. 30	7. 9	·1060					
11. 13	21. 40	7. 15	·1058					
11. 36	22. 40	7. 41	·1065					
11. 44	22. 35	8. 7	·1057					
12. 3	24. 55	8. 35	·1073					
12. 19	24. 25	9. 11	·1064					
12. 43	28. 0	10. 31	·1066					
13. 46	27. 0	11. 2	·1077					
14. 26	34. 45	11. 42	·1059					
14. 58	29. 40		***					
15. 6	29. 40	13. 30	·1071					
15. 21	27. 20	14. 19	·1060					
16. 11	25. 30	15. 10	·1070					
17. 58	24. 0		***					
20. 58	26. 45	21. 14	·1081					
21. 15	28. 0	22. 27	·1077					
22. 0	29. 0	23. 40	·1076					
23. 41	32. 55	23. 59	·1084					
23. 59	35. 0							
Aug. 13		Aug. 13		Aug. 13		Aug. 13		
0. 0	21. 35. 5	0. 0	·1084	0. 0	·02520	1. 0	71 ·2	72 ·8
0. 29	36. 5	1. 30	·1059	3. 0	·01680	3. 0	74 ·0	75 ·7
1. 10	34. 20	1. 48	·1061	5. 45	·01788	9. 17	76 ·2	75 ·5
1. 47	36. 5	2. 0	·1053	9. 0:	·01700	21. 0	65 ·5	67 ·8
2. 8	34. 30	2. 36	·1059	14. 46	·02688			
3. 6	33. 15	3. 10	·1051		·02573			
5. 16	27. 10	3. 25	·1055	17. 15	·02627			
5. 29	24. 30	3. 45	·1048	21. 16	·02595			
6. 13	27. 0	4. 0	·1049		·02345			
6. 29	26. 30	4. 15	·1059	23. 15:	·02438			
8. 40	26. 30	4. 30	·1061	23. 59	·02410			
9. 13	28. 20	4. 45	·1054					
9. 45	22. 30	5. 15	·1060					
10. 18	23. 20	5. 26	·1057					
10. 29	27. 35	5. 40	·1062					
10. 44	25. 50	5. 59	·1053					
11. 2	21. 50	6. 20	·1061					
11. 38	27. 30		***					
11. 54	26. 0	7. 15	·1070					
12. 52	28. 20	7. 26	·1068					
	***		***					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 13		Aug. 13						
h m	° ′ ″	h m		h m		h m	°	°
14. 39	21. 25. 15	8. 54	·1071					
15. 46	27. 30	9. 40	·1078					
16. 0	26. 40	10. 0	·1072					
16. 56	27. 40	10. 24	·1074					
17. 8	29. 20	11. 8	·1081					
17. 31	27. 10	11. 23	·1079					
	***	11. 46	·1082					
17. 46	28. 20	12. 15	·1073					
18. 0	26. 20		***					
18. 45	26. 30	13. 25	·1083					
19. 4	27. 0		***					
19. 30	26. 0	15. 55	·1087					
20. 2	28. 20		***					
20. 58	29. 20	16. 51	·1079					
22. 28	34. 30		***					
22. 40	34. 25	17. 40	·1086					
23. 59	37. 40	20. 30:	·1079					
		22. 25	·1084					
		23. 59	·1080					
Aug. 14		Aug. 14		Aug. 14		Aug. 14		
0. 0	21. 37. 40	0. 0	·1080	0. 0	·02410	1. 0	68 ·7	70 ·0
2. 20	36. 0	0. 45	·1087	3. 10	·01700	3. 0	71 ·3	72 ·7
4. 13	29. 30	2. 0	·1080	6. 10:	·01585	9. 0	68 ·0	69 ·4
	***	2. 30	·1094	11. 30	·02270	22. 34	63 ·8	65 ·7
5. 40	27. 0		***	14. 40	·02610			
	***	5. 40	·1098		·02500			
9. 52	27. 30		***	17. 55	·02539			
10. 13	25. 50	7. 14	·1109	18. 7	·02270			
11. 58	26. 20	7. 25	·1116	20. 45:	·02450			
	***		***	23. 59	·02347			
12. 28	27. 30	8. 24	·1112					
12. 55	26. 0	8. 40	·1109					
14. 28	25. 0	8. 55	·1112					
14. 55	26. 20	9. 11	·1107					
16. 6	23. 40	9. 53	·1108					
16. 55	26. 30	10. 14	·1118					
17. 26	22. 30	10. 30	·1109					
17. 45	23. 35	11. 25	·1107					
17. 55	22. 40		***					
18. 13	23. 30	12. 40	·1116					
19. 12	22. 30		***					
19. 41	24. 45	13. 30	·1114					
20. 0	24. 20		***					
20. 40	25. 10	15. 15	·1124					
20. 48	24. 25		***					
21. 15	27. 10	16. 10	·1116					
21. 42	27. 20	16. 45	·1123					
23. 59	36. 0	17. 25	·1117					
		18. 25	·1118					
		19. 47	·1104					
		20. 14	·1106					
			***					
		22. 45	·1093					
		23. 24	·1087					
		23. 59	·1078					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 15		Aug. 15		Aug. 15		Aug. 15		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 36. 0	0. 0	·1078	0. 0	·02347	6. 49	71 ·0	71 ·9
1. 20	35. 15	1. 5	·1077	1. 45	·02068	21. 0	65 ·5	66 ·3
1. 39	34. 30	1. 40	·1075	3. 20	·01660			
1. 52	34. 20	2. 6	·1078	6. 0	·01675			
2. 28	34. 45	2. 30	·1070	9. 10:	·01630			
2. 40	32. 30	2. 45	·1075	16. 15	·02620			
3. 21	29. 20	3. 5	·1072		·02530			
5. 14	25. 0	3. 40	·1080	18. 9	·02568			
11. 22	27. 30	4. 0	·1076		·02520			
11. 49	26. 40	4. 54	·1082	21. 0:	·02507			
12. 40	27. 30	5. 15	·1079	23. 20	·02269			
14. 31	27. 15	6. 0	·1086		(†)			
14. 52	26. 10	7. 8	·1083					
15. 36	27. 0	8. 15	·1088					
18. 51	22. 0		***					
19. 26	22. 10	12. 30	·1100					
20. 33	24. 0	14. 15	·1107					
21. 36	27. 40	15. 13	·1106					
22. 18	28. 50	18. 0	·1114					
23. 59	33. 5	19. 30	·1106					
		21. 20	·1087					
		22. 0	·1084					
			***					
		23. 59	·1072					
Aug. 16		Aug. 16		Aug. 16		Aug. 16		
0. 0	21. 33. 5	0. 0	·1072		(†)	1. 0	68 ·0	68 ·5
	***		***	1. 0	·02008*	3. 0	69 ·4	70 ·2
2. 2	36. 30	2. 30	·1081	1. 5	·01988	9. 0	70 ·0	70 ·3
2. 40	35. 30	2. 45	·1071	3. 5	·01688	21. 0	63 ·7	64 ·8
2. 50	36. 30	3. 14	·1088		·02080			
3. 47	29. 30	3. 50	·1072	3. 33	·02048			
4. 7	31. 0	4. 12	·1084	5. 30:	·01790			
4. 42	30. 45		***	9. 30:	·01700			
5. 43	28. 40	6. 10	·1084	13. 36	·02259			
6. 30	28. 30	6. 54	·1078	13. 52	·02240			
6. 56	27. 0	7. 10	·1082	14. 15	·02302			
7. 14	27. 40	7. 30	·1082	20. 10:	·02491			
7. 40	25. 45	8. 30	·1085	23. 59	·01810			
8. 50	26. 30	9. 0	·1082					
9. 8	28. 0	9. 33	·1088					
9. 30	23. 50	9. 45	·1081					
9. 52	22. 50	10. 2	·1088					
10. 22	25. 0		***					
10. 45	21. 20	10. 27	·1078					
11. 54	25. 20		***					
12. 12	25. 30	11. 14	·1084					
12. 39	22. 15	11. 21	·1094					
13. 42	39. 15	11. 45	·1091					
14. 50	17. 10	12. 32	·1100					
15. 10	16. 45	12. 55	·1096					
15. 26	20. 20	13. 14	·1098					
17. 12	21. 50	13. 25	·1094					
18. 52	20. 25	13. 45	·1117					
20. 52	21. 0	14. 0	·1108					
21. 48	26. 0	14. 15	·1101					
22. 58:	29. 0	14. 45	·1104					
23. 59	35. 0		***					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 16 h m		h m		h m	°	°
		16. 45	·1100					
		17. 45	·1100					
		18. 12	·1097					
		18. 30	·1098					
		19. 8	·1096					
		21. 54	·1065					
		23. 59	·1070					
Aug. 17		Aug. 17		Aug. 17		Aug. 17		
0. 0	21. 35. 0	0. 0	·1070	0. 0	·01810	1. 0	71·6	72·0
0. 39	34. 0	0. 30	·1059	3. 2	·01705	3. 0	71·9	73·7
0. 52	36. 20	0. 45	·1064		·01911	9. 0	74·1	74·0
1. 13	35. 30	1. 15	·1051	5. 15	·01717	21. 0	69·0	70·8
2. 6	37. 20	2. 0	·1064	10. 0:	·01680			
2. 37	34. 40	2. 25	·1062	16. 0	·02100			
2. 45	35. 0	2. 36	·1052	22. 15:	·02581			
5. 59	27. 50	3. 24	·1058	23. 59	·02520			
7. 29	27. 0	4. 15	·1055					
8. 30	28. 15	4. 42	·1059					
8. 52	26. 40	5. 32	·1058					
9. 25	28. 30	5. 44	·1066					
10. 1	26. 45		***					
10. 54	27. 40	6. 15	·1054					
11. 29	27. 20	7. 0	·1057					
11. 58	29. 10	7. 44	·1065					
13. 44	27. 0	8. 7	·1063					
13. 52	27. 30		***					
16. 39	23. 55	9. 16	·1071					
16. 58	22. 30		***					
	***	11. 20	·1074					
19. 55	23. 20	12. 30	·1083					
20. 15	25. 40		***					
20. 30	25. 10	14. 30:	·1082					
21. 51	31. 30		***					
22. 40	31. 30	18. 30	·1088					
23. 59	33. 40	19. 25	·1080					
		19. 45	·1081					
		20. 45	·1068					
		21. 45	·1062					
			***					
		23. 20	·1062					
			***					
		23. 59	·1071					
Aug. 18		Aug. 18		Aug. 18		Aug. 18		
0. 0	21. 33. 40	0. 0	·1071	0. 0	·02520	1. 0	73·4	75·0
1. 10	35. 55	0. 36	·1078	5. 22	{·01710	3. 0	73·8	74·2
2. 29	35. 0	1. 7	·1073		{·01765	9. 0	73·5	74·2
3. 59	32. 0	2. 4	·1078	9. 15:	·01720	21. 0	68·2	70·0
4. 13	32. 0	3. 5	·1073	14. 40	·02160			
5. 26	29. 30	3. 20	·1076	17. 32	{·02618			
7. 51	26. 30	4. 0	·1072		{·02540			
	***	4. 25	·1078	22. 45:	·02575			
9. 20	29. 0	5. 15	·1072	23. 59	·02470			
9. 43	28. 0	7. 15	·1083					
10. 30	28. 20	7. 40	·1090					
10. 45	27. 0	7. 50	·1086					
11. 0	27. 5	8. 30	·1089					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 18 h m	° ′ ″	Aug. 18 h m		h m		h m	°	°
11. 11	21. 28. 30	9. 0	·1086					
11. 30	28. 30		***					
11. 57	26. 30	10. 39	·1084					
12. 14	27. 45	11. 7	·1090					
12. 43	24. 0	11. 21	·1084					
12. 53	25. 0	11. 39	·1086					
13. 26	25. 15	11. 53	·1081					
13. 51	28. 30	12. 15	·1091					
14. 14	28. 15	12. 45	·1091					
14. 53	26. 0	13. 17	·1084					
15. 11	26. 5	13. 46	·1086					
16. 4	24. 40	14. 16	·1097					
	***	16. 16	·1093					
17. 10	24. 30	17. 42	·1098					
17. 29	23. 15	19. 12	·1089					
17. 43	23. 40		***					
18. 12	23. 30	20. 0:	·1079					
18. 54	20. 30		***					
19. 26	20. 30	21. 0	·1088					
20. 34	26. 30	22. 7	·1078					
20. 52	26. 30	22. 53	·1076					
22. 5	31. 40	23. 59	·1082					
22. 39	34. 30							
23. 59	34. 55							
Aug. 19		Aug. 19		Aug. 19		Aug. 19		
0. 0	21. 34. 55	0. 0	·1083	0. 0	·02470	1. 0	73·5	75·0
0. 26	35. 30	1. 58	·1069	3. 28	{·01730	3. 0	73·5	74·5
0. 53	34. 0	2. 22	·1070		{·01790	9. 0	74·4	75·0
1. 32	32. 45	2. 52	·1064	7. 36	·01730	21. 0	66·0	67·0
6. 0	28. 5	3. 15	·1068	9. 15:	·01720			
6. 45	25. 55	3. 30	·1064	15. 18	{·02590			
8. 11	27. 30	4. 0	·1068		{·02531			
8. 40	25. 10	4. 46	·1063	20. 30	·02550			
8. 59	27. 10		***	23. 59	·02525			
11. 45	27. 0	5. 45	·1077					
11. 59	28. 50	6. 11	·1070					
12. 15	27. 15		***					
19. 42	23. 0	8. 49	·1082					
21. 22	25. 30	9. 18	·1078					
23. 9	30. 10	10. 13	·1079					
23. 59	31. 40	11. 20	·1086					
		12. 10	·1097					
		12. 44	·1093					
		15. 35:	·1098					
			***					
		21. 10:	·1080					
		23. 59	·1090					
Aug. 20		Aug. 20		Aug. 20		Aug. 20		
0. 0	21. 31. 40	0. 0	·1090	0. 0	·02525	1. 0	66·5	68·3
2. 15	33. 20	2. 0:	·1082	0. 35	{·02548	3. 0	65·0	66·3
3. 28	32. 30	3. 23	·1091		{·02380	9. 0	65·0	67·0
	***	3. 52	·1082	3. 25	·02420	21. 0	60·0	62·0
5. 6	28. 45	4. 36	·1081	7. 0:	·02315			
	***		***	11. 45:	·02496			
6. 45	28. 10	8. 10	·1086	16. 0	·02480			
	***		***		***			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug.20		Aug.20		Aug.20				
h m	° ′ ″	h m		h m		h m	°	°
9. 45	21. 28. 15	11. 55	·1099	23. 55	02470			
10. 12	26. 40	12. 20	·1093		(†)			
11. 39	25. 0		***					
11. 45	26. 5	13. 55	·1104					
12. 15	25. 0	14. 12	·1098					
12. 30	27. 0	14. 58	·1108					
13. 22	27. 30	15. 54	·1104					
13. 45	31. 30	17. 10:	·1112					
13. 53	31. 10	18. 15	·1106					
14. 24	27. 45	19. 11	·1106					
14. 59	25. 30	19. 45	·1093					
15. 42	24. 50	20. 0	·1094					
16. 7	26. 5	20. 55	·1079					
16. 21	24. 20	21. 54	·1084					
17. 2	24. 30	22. 30	·1062					
17. 28	21. 30	23. 0	·1087					
17. 41	22. 5		(†)					
17. 56	21. 35							
18. 9	22. 0							
18. 19	18. 30							
18. 24	19. 35							
18. 32	19. 15							
18. 45	21. 35							
19. 23	20. 45							
20. 24	26. 20							
20. 31	26. 0							
21. 14	30. 30							
21. 26	30. 0							
21. 37	30. 50							
21. 47	30. 5							
22. 0	32. 15							
22. 17	32. 0							
22. 30	34. 30							
22. 40	34. 45							
22. 52	36. 45							
23. 59	37. 0							
Aug.21		Aug.21		Aug.21		Aug.21		
0. 0	21. 37. 0		(†)		(†)	1. 0	62 ·0	63 ·2
0. 10	37. 45	0. 45	·1084	0. 15	·02450	3. 0	62 ·2	63 ·6
0. 30	37. 40	0. 57	·1098		***	9. 0	63 ·0	65 ·0
0. 42	39. 5	1. 40	·1094	4. 0	·02250	22. 20	64 ·0	65 ·0
	***	2. 6	·1108	6. 10	·02183			
2. 7	36. 20	2. 21	·1107	9. 50	·01852			
2. 30	36. 20	2. 30	·1121	10. 36	·01684			
3. 22	31. 40	2. 42	·1114	10. 53	·01711			
4. 43	26. 30	2. 51	·1116	15. 30:	·01542			
5. 25	26. 30	3. 22	·1098	20. 55:	·01734			
5. 44	24. 5	3. 30	·1108	23. 59	·01479			
6. 11	23. 45	3. 40	·1103					
6. 31	21. 45	3. 53	·1106					
6. 41	21. 40	4. 5	·1103					
7. 0	21. 0	4. 44	·1113					
7. 16	22. 20	5. 0	·1106					
7. 43	22. 10	5. 15	·1108					
8. 7	23. 20	5. 45	·1134					
8. 30	22. 0	6. 0	·1120					
8. 46	23. 0	6. 10	·1125					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
9. 0	21. 23. 0	6. 42	·1117					
9. 43	27. 50		***					
9. 50	31. 0	8. 8	·1133					
10. 25	22. 0	8. 30	·1133					
10. 39	12. 35	8. 44	·1125					
10. 52	21. 50	8. 55	·1128					
11. 12	23. 0	9. 7	·1124					
11. 25	25. 0	9. 24	·1120					
14. 16	26. 15	10. 0	·1141					
14. 49	25. 45	10. 43	·1096					
15. 15	27. 0	11. 0	·1124					
15. 41	25. 35	11. 15	·1113					
16. 42	26. 45	12. 0	·1120					
17. 11	25. 0		***					
18. 39	23. 35	15. 50	·1110					
18. 50	25. 10	16. 15	·1104					
19. 0	24. 20	17. 0	·1110					
19. 29	24. 10	17. 25	·1102					
20. 25	27. 30	17. 45	·1102					
20. 30	26. 50	18. 10	·1096					
23. 53	37. 45	18. 35	·1099					
23. 59	37. 50		***					
		20. 30	·1086					
			***					
		23. 45	·1087					
		23. 59	·1086					
Aug.22		Aug.22		Aug.22		Aug.22		
0. 0	21. 37. 50	0. 0	·1085	0. 0	·01479	7. 40	69 ·0	70 ·0
0. 20	37. 20	0. 24	·1076	0. 20	·01417	21. 0	62 ·0	64 ·1
1. 12	38. 20	2. 45	·1080	2. 48	·01589			
4. 39	28. 0	4. 39	·1074	5. 45:	·01635			
4. 44	28. 10	6. 0:	·1083	9. 0:	·01595			
5. 36	25. 55	6. 40	·1079	12. 43	·01880			
6. 12	25. 30		***	17. 10	{·02557			
6. 44	23. 30	7. 28	·1089		{·02450			
6. 56	24. 30	7. 39	·1086	21. 6	·02506			
7. 10	24. 30	9. 11	·1088	22. 45	·02490			
8. 11	27. 50	9. 29	·1083	23. 59	·02300			
9. 0	28. 30	10. 52	·1084					
9. 40	26. 25	12. 7	·1103					
10. 11	27. 30	13. 0	·1095					
11. 40	26. 10	14. 0	·1093					
11. 45	26. 45	14. 31	·1081					
12. 10	26. 30	14. 58	·1089					
12. 27	28. 20		***					
13. 29	24. 30	16. 25	·1099					
13. 59	24. 15		***					
14. 40	32. 0	18. 39	·1089					
15. 11	30. 0	19. 0	·1094					
16. 0	24. 20		***					
	***	21. 6	·1093					
17. 19	23. 0	21. 40	·1085					
	***	21. 55	·1088					
18. 15	24. 45	22. 30	·1073					
18. 33	22. 35		***					
18. 45	25. 30	23. 59	·1084					
	***							

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 22								
h m	° ′ ″	h m		h m		h m	°	°
20. 56	21. 26. 45							
21. 55	31. 45							
22. 13	31. 20							
23. 12	35. 30							
23. 59	35. 35							
Aug. 23		Aug. 23		Aug. 23		Aug. 23		
0. 0	21. 35. 35	0. 0	·1083	0. 0	·02300	1. 0	67 ·5	69 ·3
0. 28	36. 30	0. 25	·1085	2. 5	·01643	3. 0	70 ·0	71 ·6
2. 14	33. 45	0. 53	·1076		·01705	9. 0	70 ·2	71 ·5
2. 26	34. 5	1. 6	·1080	3. 0	:01705	21. 0	62 ·0	64 ·4
2. 54	32. 30	1. 23	·1071		·01975			
5. 55	27. 30		***	4. 0	·01818			
9. 36	28. 55	2. 35	·1079	5. 30	·01740			
12. 53	28. 30	2. 57	·1075	9. 15:	·01690			
13. 15	30. 45		***	14. 36	·02540			
13. 42	28. 20	4. 20	·1077		·02466			
14. 10	31. 45		***	21. 10	·02510			
14. 45	27. 0	6. 14	·1087	22. 40	·02520			
	***	7. 0:	·1079	23. 59	·02378			
16. 29	25. 20	7. 59	·1084					
17. 6	26. 10	9. 28	·1087					
17. 28	30. 20	9. 45	·1082					
17. 59	31. 45		***					
18. 29	29. 20	13. 7	·1093					
18. 56	28. 55	13. 27	·1098					
19. 15	26. 55	13. 45	·1093					
19. 42	26. 5	14. 29	·1096					
20. 52	27. 10		***					
21. 57	33. 0	15. 28	·1096					
22. 13	33. 20	16. 50:	·1104					
22. 50	36. 0	17. 30	·1088					
23. 14	36. 50		***					
23. 29	35. 10	19. 30:	·1097					
23. 40	36. 20	20. 41	·1084					
23. 59	34. 45	21. 5	·1088					
		21. 30	·1079					
		21. 56	·1080					
		22. 4	·1076					
		22. 50	·1087					
		23. 0	·1084					
			***					
		23. 59	·1089					
Aug. 24		Aug. 24		Aug. 24		Aug. 24		
0. 0	21. 34. 45	0. 0	·1090	0. 0	·02378	1. 0	66 ·2	68 ·0
0. 22	33. 10	0. 32	·1093	2. 13	·01800	3. 0	69 ·8	71 ·2
0. 29	33. 40	0. 45	·1086	3. 6	·01750	9. 0	72 ·0	73 ·0
0. 54	32. 30	1. 48	·1090		·01857	21. 0	66 ·0	67 ·6
1. 6	33. 20	2. 35	·1080	4. 11	·01774			
1. 39	33. 20	3. 15	·1081	9. 10	·01682			
2. 52	29. 10	4. 0	·1071	14. 39:	·01976			
4. 19	25. 30	5. 55	·1078	20. 0	·02595			
6. 31	24. 40	6. 21	·1085		·02513			
8. 15	27. 20	6. 45	·1084	23. 53	·02530			
10. 13	26. 30	7. 8	·1080		(†)			
10. 39	23. 30	9. 20	·1085					
11. 22	26. 30	10. 23	·1082					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F Magnet.
Aug. 24		Aug. 24						
h m	° ′ ″	h m		h m		h m	°	°
12. 11	21. 27. 30	10. 37	·1086					
13. 52	26. 45	15. 15	·1085					
14. 22	27. 30	19. 0:	·1088					
15. 43	26. 40	21. 30:	·1072					
15. 51	28. 10	23. 59	·1082					
17. 20	24. 30							
	***							
18. 51	22. 30							
19. 5	23. 30							
19. 29	23. 20							
20. 9	25. 40							
20. 30	25. 50							
22. 13	32. 30							
23. 11	34. 30							
23. 59	35. 10							
Aug. 25		Aug. 25		Aug. 25		Aug. 25		
0. 0	21. 35. 10	0. 0	·1082		(†)	1. 0	66 ·0	67 ·8
1. 18	35. 50	1. 30	·1091	0. 25	·02540	3. 0	67 ·6	68 ·8
1. 33	33. 45	1. 48	·1111	1. 51	·02518	9. 10	66 ·5	68 ·6
1. 41	39. 30	2. 0	·1105		***	21. 0	59 ·0	61 ·3
1. 50	38. 20	2. 6	·1112	4. 52	·02220			
1. 57	39. 25	2. 30	·1087	8. 13:	·02030			
2. 22	36. 50	3. 7	·1087		***			
	***	3. 24	·1100	12. 33	·02443			
3. 52	32. 35	3. 38	·1099	13. 0	·02417			
4. 40	33. 30	3. 42	·1093		·02311			
5. 51	29. 30	4. 0	·1091		***			
6. 11	23. 20	4. 30	·1097	14. 14	·02338			
6. 21	22. 45	4. 55	·1082	14. 22	·02317			
6. 45	27. 30	5. 25	·1101	14. 35	·02380			
7. 59	30. 0		***	14. 46	·02395			
8. 26	29. 25	6. 13	·1079	14. 56	·02350			
8. 52	29. 35		***		***			
9. 12	27. 30	7. 46	·1100	15. 30	·02396			
9. 26	26. 0	8. 15	·1097	15. 57	·02355			
9. 43	27. 40	8. 40	·1108		***			
10. 11	25. 30	8. 48	·1097	22. 21	·02457			
10. 22	26. 30	8. 58	·1107	23. 59	·02430			
10. 40	23. 45	9. 13	·1100					
10. 45	25. 0	9. 30	·1082					
10. 56	24. 45	9. 55	·1092					
	***	10. 7	·1075					
11. 23	28. 0	10. 23	·1099					
11. 51	25. 0	10. 40	·1097					
12. 15	28. 25	10. 45	·1081					
12. 35	38. 30	11. 0	·1090					
12. 52	29. 10	11. 21	·1092					
13. 7	34. 30	11. 30	·1106					
13. 30	29. 35	11. 55	·1092					
13. 40	31. 20	12. 6	·1102					
13. 56	27. 0	12. 20	·1083					
14. 7	26. 55	12. 45	·1120					
14. 13	28. 40		***					
14. 29	11. 50	13. 25	·1073					
14. 45	26. 55	13. 35	·1090					
15. 1	17. 15	13. 45	·1087					
15. 10	18. 45	14. 15	·1103					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 25		Aug. 25						
h m	° ′ ″	h m		h m		h m	°	°
15. 13	21. 16. 5	14. 26	·1075					
15. 40	30. 20	14. 30	·1098					
15. 52	33. 55	14. 40	·1096					
16. 11	30. 50	14. 48	·1109					
16. 26	32. 35	14. 53	·1097					
16. 37	31. 0	14. 58	·1080					
16. 41	31. 40	15. 8	·1093					
16. 51	29. 0	15. 12	·1084					
17. 0	32. 40	15. 15	·1093					
17. 12	27. 10	15. 30	·1096					
17. 21	30. 0		***					
17. 25	26. 0	16. 6	·1079					
17. 30	29. 0	16. 30	·1096					
17. 40	21. 30		***					
17. 44	24. 10	18. 14	·1089					
17. 52	22. 30		***					
18. 7	19. 35	19. 27	·1060					
18. 15	21. 45	19. 44	·1062					
18. 26	21. 20	21. 0:	·1048					
18. 30	23. 0		***					
18. 41	23. 0	23. 33	·1076					
18. 43	25. 30	23. 59	·1071					
18. 45	22. 10							
18. 51	23. 40							
18. 55	20. 0							
19. 1	22. 45							
19. 9	21. 10							
19. 13	28. 30							
19. 18	24. 0							
19. 22	25. 55							
19. 30	23. 15							
19. 44	23. 20							
19. 49	25. 15							
20. 29	26. 30							
21. 50	35. 20							
22. 43	35. 45							
23. 30	37. 50							
23. 59	37. 0							
Aug. 26		Aug. 26		Aug. 26		Aug. 26		
0. 0	21. 37. 0	0. 0	·1071	0. 0	·02430	1. 0	62 ·0	63 ·0
	***		***	2. 56	·02220	3. 0	64 ·2	64 ·8
4. 10	31. 0	1. 45	·1087	4. 56	·01866	9. 0	66 ·4	66 ·6
4. 56	23. 5	2. 15	·1081	6. 45	{·01547	21. 0	63 ·2	64 ·5
5. 14	23. 0	3. 20	·1087		{·01596			
5. 56	27. 20	4. 8	·1084	12. 13	·01450			
6. 40	27. 10		***	19. 15	·01792			
6. 52	28. 30	4. 40	·1071	21. 21	·01770			
7. 7	27. 30	5. 0	·1085	23. 59	·01794			
7. 13	27. 40	5. 25	·1090					
7. 30	27. 0	5. 45	·1082					
8. 14	28. 30	6. 0	·1088					
8. 43	17. 35	6. 17	·1081					
9. 28	29. 50	6. 47	·1082					
9. 40	27. 50	7. 0	·1079					
10. 18	27. 0	7. 58	·1084					
10. 44	29. 30	8. 25	·1073					
10. 54	28. 25	8. 50	·1099					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 26		Aug. 26						
h m	° ′ ″	h m		h m		h m	°	°
11. 0	21. 30. 0	9. 25	·1077					
11. 26	27. 50	9. 45	·1084					
11. 40	30. 30	10. 10	·1075					
11. 45	33. 0	10. 38	·1084					
11. 56	32. 30	11. 10	·1075					
12. 0	33. 30	11. 31	·1082					
12. 30	28. 50	11. 45	·1074					
12. 59	26. 45	11. 58	·1081					
13. 56	24. 45	12. 13	·1080					
14. 10	25. 30	12. 45	·1095					
14. 20	24. 45		***					
15. 7	26. 30	13. 40	·1086					
15. 41	24. 30		***					
15. 51	25. 10	15. 45	·1092					
16. 13	23. 30		***					
16. 30	24. 20	17. 10	·1081					
16. 40	23. 30	18. 0	·1084					
17. 11	26. 30	19. 12	·1080					
17. 44	25. 55	21. 45	·1063					
18. 40	23. 20	22. 20	·1062					
19. 30	24. 10	22. 40	·1070					
20. 10	23. 10	23. 0	·1054					
20. 57	24. 15	23. 59	·1072					
22. 19	27. 50							
22. 40	31. 20							
22. 56	29. 35							
23. 53	34. 45							
23. 59	34. 15							
Aug. 27		Aug. 27		Aug. 27		Aug. 27		
0. 0	21. 34. 15	0. 0	·1072	0. 0	·01794	1. 0	64 ·0	65 ·0
0. 10	36. 5	0. 36	·1091	3. 0	·01887	3. 0	64 ·8	65 ·5
0. 25	35. 35	1. 1	·1066	7. 59	{·01476	9. 0	65 ·4	67 ·0
0. 31	38. 30	1. 25	·1070		{·01597	21. 0	59 ·7	61 ·4
	(†)	1. 45	·1087	11. 4	·01540			
1. 0	35. 31*	2. 0	·1078	12. 10	·01586			
2. 30	36. 35	2. 15	·1082	12. 29	·01566			
2. 56	37. 20	2. 35	·1066	12. 56	·01595			
3. 12	35. 30	3. 0	·1077	19. 40	·02430			
3. 54	33. 40	3. 13	·1070		***			
4. 28	34. 0	3. 30	·1082	21. 40	·02370			
5. 45	31. 15	3. 45	·1077	23. 59	·02407			
6. 26	18. 30	4. 25	·1091					
6. 52	26. 40	4. 30	·1083					
6. 59	26. 30	4. 55	·1081					
7. 13	28. 45	5. 8	·1089					
7. 40	28. 20	5. 30	·1094					
8. 12	29. 20	5. 47	·1092					
8. 43	24. 45	6. 7	·1082					
8. 52	25. 10	6. 36	·1109					
9. 6	23. 0	6. 55	·1092					
9. 27	25. 55	7. 30	·1088					
9. 46:	16. 5	7. 45	·1093					
10. 13	21. 50	8. 10	·1090					
10. 28	22. 35	8. 55	·1091					
10. 39	21. 0	9. 0	·1102					
10. 55	21. 30	9. 24	·1092					
11. 11	23. 45	9. 50	·1113					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug.27		Aug.27						
h m	° ′ ″	h m		h m		h m	°	°
11. 26	21. 21. 20	10. 13	·1096					
11. 39	22. 0	10. 40	·1105					
11. 52	21. 0	11. 8	·1097					
12. 22	29. 55	11. 30	·1090					
12. 40	24. 10	11. 56	·1088					
12. 53	28. 10	12. 13	·1097					
13. 13	26. 30	12. 20	·1094					
13. 25	27. 10	12. 40	·1118					
13. 42	23. 20	13. 2	·1098					
13. 51	25. 0	13. 15	·1099					
14. 11	22. 30	13. 25	·1090					
	***	13. 40	·1084					
14. 44	22. 30	14. 8	·1096					
15. 30	27. 0		***					
15. 41	27. 35	14. 40	·1100					
16. 10	32. 30	15. 27	·1086					
	***	15. 57	·1090					
17. 43	28. 0	16. 15	·1077					
17. 51	29. 20	16. 54	·1084					
	***		***					
18. 28	26. 5	17. 42	·1082					
	***	18. 0	·1090					
20. 29	25. 30		***					
	***	20. 5	·1075					
20. 51	27. 30	20. 45	·1072					
	***	21. 25	·1064					
22. 25	28. 30	21. 40	·1071					
22. 30	30. 45	22. 15	·1063					
22 45	30. 50		***					
23. 10	32. 20	23. 59	·1077					
23. 41	32. 30							
	(†)							
Aug.28		Aug.28		Aug.28		Aug.28		
0. 2	21. 32. 50	0. 0	·1077	0. 0	·02407	1. 0	62 ·0	62 ·0
0. 30	33. 15	0. 35	·1077	1. 36	·02360	3. 0	63 ·2	64 ·7
0. 45	36. 5	0. 46	·1085	2. 18	·02277	9. 0	64 ·0	65 ·8
0. 59	34. 30	1. 0	·1076	5. 43	{·01536	21. 30	56 ·5	58 ·0
1. 33	37. 20	1. 14	·1076		{·01600			
2. 5	36. 30	1. 32	·1081	9. 44	·01540			
2. 13	36. 45	1. 51	·1072	11. 52:	·01620			
2. 38	34. 30	2. 7	·1068	17. 28	{·02427			
2. 52	33. 30	2. 20	·1074		{·02370			
3. 30	33. 45	2. 40	·1072	22. 45	·02417			
4. 39	32. 10	3. 10	·1084	23. 59	·02322			
4. 44	33. 0	3. 30	·1084					
8. 10	26. 30	3. 57	·1090					
9. 30	27. 45	4. 14	·1081					
10. 15	23. 45		***					
11. 9	26. 30	4. 41	·1084					
11. 15	28. 10	4. 55	·1092					
12. 22	27. 55	5. 15	·1093					
12. 36	30. 45	6. 0	·1084					
12. 53	28. 30	6. 20	·1090					
13. 0	29. 0	6. 55	·1091					
13. 35	28. 5	7. 25	·1081					
16. 53	26. 40	9. 11	·1087					
17. 22	25. 45	9. 25	·1082					
			***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug.28		Aug.28						
h m	° ′ ″	h m		h m		h m	°	°
18. 16	21. 25. 30	9. 29	·1088					
18. 39	24. 30	9. 47	·1084					
18. 52	25. 30	10. 16	·1094					
19. 22	24. 30	11. 12	·1087					
	***		***					
21. 12	27. 35	12. 45	·1089					
23. 59	34. 35	13. 2	·1095					
		13. 13	·1090					
		16. 0:	·1099					
		17. 36	·1096					
		18. 8	·1099					
		19. 0	·1086					
		19. 43	·1087					
		20. 30	·1079					
		23. 59	·1081					
Aug.29		Aug.29		Aug.29		Aug.29		
0. 0	21. 34. 35	0. 0	·1081	0. 0	·02322	8. 0	66 ·0	67 ·3
1. 10	37. 45	1. 15	·1090	3. 44	{·01526	21. 0	62 ·1	63 ·5
4. 0	32. 45		***		{·01563			
4. 59	32. 30	3. 15	·1092	8. 14	·01560			
5. 22	31. 30		***	10. 43:	·01518			
5. 58	31. 50	5. 7	·1104	14. 40	·01787			
7. 4	30. 10	5. 25	·1097	20. 45:	·02316			
7. 11	29. 10	5. 42	·1097	22. 43	·02287			
8. 19	30. 5	6. 4	·1109	23. 59	·02156			
8. 53	28. 30	6. 18	·1106					
10. 30	24. 40	6. 30	·1100					
10. 57	26. 10	6. 45	·1096					
11. 22	25. 5	6. 55	·1099					
11. 36	25. 30	7. 5	·1095					
11. 58	24. 55		***					
13. 13	28. 10	8. 25	·1101					
13. 52	27. 30	8. 45	·1095					
14. 26	28. 20	9. 8	·1095					
15. 15	23. 30	9. 30	·1104					
15. 57	23. 10	9. 52	·1098					
16. 40:	24. 30	10. 0	·1106					
17. 40	22. 15		***					
	***	10. 45	·1093					
19. 54	22. 30	11. 40	·1097					
	***		***					
21. 22	27. 10	13. 45	·1092					
21. 41	29. 20	14. 45	·1104					
22. 0	29. 15	15. 41	·1101					
22. 33	32. 30	16. 15	·1093					
22. 54	32. 0	17. 0	·1097					
23. 59	33. 40	17. 44	·1089					
		18. 20	·1090					
		21. 5	·1077					
		21. 36	·1079					
		22. 25	·1060					
		23. 59	·1068					
Aug.30		Aug.30		Aug.30		Aug.30		
0. 0	21. 33. 40	0. 0	·1068	0. 0	·02156	1. 0	64 ·0	65 ·2
1. 51	34. 30	1. 40	·1094	2. 8	·01986	3. 0	65 ·7	67 ·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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
2. 6	21. 35. 55	2. 30	·1084	4. 10	·01620	9. 0	66 ·5	67 ·0
3. 15	33. 50	3. 20	·1084		·01730	21. 0	57 ·0	59 ·0
3. 45	32. 30	3. 41	·1096	9. 28	·01607			
4. 53	32. 40		***	13. 21	·02056			
5. 13	30. 0	4. 30	·1093	15. 27	·02497			
5. 21	30. 30	4. 46	·1079		·02420			
5. 37	28. 10	5. 30	·1100	17. 58	·02456			
6. 6	29. 15	6. 5	·1090	20. 0	·02417			
6. 22	28. 0	6. 35	·1082	22. 11	·02437			
6. 43	29. 10	7. 0	·1093	23. 59	·02356			
7. 7	27. 0		***					
7. 30	28. 45	7. 39	·1082					
7. 52	27. 30	7. 55	·1083					
8. 15	27. 35	8. 15	·1093					
8. 29	29. 10	8. 29	·1112					
8. 44	28. 20	8. 56	·1094					
8. 51	25. 10	9. 9	·1108					
9. 0	28. 35	9. 28	·1076					
9. 29	20. 0	9. 39	·1086					
9. 45	27. 45	9. 55	·1088					
10. 9	20. 0	10. 14	·1071					
10. 14	21. 10	10. 25	·1066					
10. 41	24. 20	10. 40	·1068					
11. 6	20. 0	11. 15	·1085					
	***	12. 10	·1090					
11. 58	20. 50	12. 25	·1086					
12. 26	23. 35	13. 6	·1099					
12. 40	23. 0	13. 33	·1091					
13. 7	27. 30	13. 58	·1099					
13. 29	29. 0	14. 15	·1095					
13. 53	22. 0	14. 45	·1100					
14. 42	22. 30		***					
15. 45	26. 30	15. 33	·1096					
16. 0	24. 30	16. 10	·1103					
16. 42	28. 20		***					
16. 51	26. 10	17. 7	·1103					
17. 12	24. 55	17. 28	·1090					
17. 44	27. 30	17. 55	·1097					
17. 59	25. 25	18. 30	·1094					
18. 12	26. 10	19. 0	·1102					
18. 28	31. 0		***					
18. 40	31. 10	20. 23	·1088					
19. 10	27. 0	20. 53	·1092					
19. 40	26. 10	22. 15	·1082					
19. 52	24. 40	22. 32	·1089					
20. 11	26. 15	22. 50	·1077					
20. 26	24. 20	23. 3	·1082					
20. 40	28. 10	23. 59	·1074					
21. 50	28. 10							
22. 30	31. 10							
22. 55	33. 30							
23. 59	35. 30							
Aug. 31		Aug. 31		Aug. 31		Aug. 31		
0. 0	21. 35. 30	0. 0	·1074	0. 0	·02356	1. 0	62 ·0	63 ·0
0. 28	37. 30	0. 10	·1085	3. 0	·01818	3. 0	63 ·5	65 ·0
	***	0. 18	·1066	4. 13	·01522	9. 0	65 ·0	67 ·0
1. 30	35. 10	0. 40	·1082		·01596	21. 5	61 ·5	62 ·5
					***			

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 31		Aug. 31		Aug. 31				
h m	° ′ ″	h m		h m		h m	°	°
1. 49	21. 36. 45	0. 55	·1094	7. 43	·01572			
2. 0	35. 30	1. 30	·1087	8. 0	·01530			
2. 31	35. 0	1. 55	·1092	8. 45	·01510			
2. 47	37. 20	2. 5	·1088	10. 59	·01562			
	***	2. 40	·1088	14. 38	·01930			
4. 55	30. 40	2. 58	·1098	14. 46	·01927			
	***		***	19. 6	·02495			
5. 52	30. 45	4. 7	·1081		·02390			
6. 29	29. 30	4. 20	·1088	22. 13:	·02424			
6. 51	25. 30		***	23. 59	·02276			
	***	5. 30	·1094					
7. 28	26. 30	5. 38	·1090					
7. 31	25. 15	5. 55	·1094					
7. 44	28. 30	6. 9	·1088					
8. 0	21. 25	6. 30	·1094					
8. 26	25. 0	6. 40	·1089					
8. 45	24. 0	7. 0	·1100					
9. 15	27. 45	7. 25	·1106					
9. 38	27. 20	7. 36	·1115					
9. 51	28. 55	7. 47	·1101					
10. 11	25. 30	8. 10	·1114					
10. 33	29. 5	8. 40	·1091					
10. 45	30. 55	9. 25	·1086					
11. 11	23. 30	9. 53	·1102					
11. 42	20. 30	10. 8	·1096					
12. 22	24. 0	10. 14	·1098					
12. 29	23. 35	10. 25	·1092					
	***	10. 39	·1096					
12. 58	27. 25	10. 53	·1094					
13. 21	25. 30	11. 10	·1105					
	***		***					
14. 0	28. 20	12. 39	·1089					
14. 24	34. 30	13. 5	·1098					
14. 44	35. 30		***					
15. 29	29. 30	13. 50	·1097					
16. 0	26. 20	14. 7	·1087					
16. 11	26. 45		***					
16. 29	25. 30	14. 37	·1090					
17. 52	25. 30	15. 0	·1102					
	***	16. 10	·1107					
18. 10	23. 30	16. 45	·1096					
	***	18. 15	·1095					
20. 0	22. 50	20. 15	·1078					
20. 14	25. 30	22. 15	·1076					
20. 44	25. 35		***					
23. 3	36. 45	23. 59	·1077					
23. 12	39. 0							
23. 59	38. 30							
Sept. 1		Sept. 1		Sept. 1		Sept. 1		
0. 0	21. 38. 30	0. 0	·1077	0. 0	·02276	1. 0	65 ·2	66 ·5
0. 40	39. 45	1. 28	·1103	3. 55	·01680	3. 0	66 ·0	67 ·5
1. 30	38. 0	1. 47	·1117		***	9. 0	68 ·0	69 ·0
1. 47	40. 30	2. 10	·1113	6. 40	·01688	21. 0	59 ·8	61 ·8
2. 13	39. 30	2. 30	·1097	10. 55	·01586			
2. 39	34. 30	2. 40	·1105	13. 0	·01720			
3. 15	32. 10	2. 55	·1098	14. 12	·01893			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 1		Sept. 1		Sept. 1				
h m	° ′ ″	h m		h m		h m	°	°
3. 59	21. 32. 45	3. 23	·1116	17. 0	{·02522			
4. 12	31. 30	3. 45	·1102		{·02430			
4. 26	33. 30	4. 10	·1085	21. 12	{·02433			
4. 48	32. 0	4. 25	·1096		{·02290			
5. 0	33. 30	4. 50	·1087	22. 28	·02346			
5. 18	31. 45	5. 21	·1112	23. 59	·02286			
5. 51	18. 30	5. 40	·1107					
6. 11	26. 30	5. 55	·1147					
6. 29	21. 20	6. 11	·1111					
6. 44	22. 30	6. 30	·1116					
6. 53	26. 20	6. 57	·1092					
7. 25	27. 10	7. 25	·1097					
7. 45	26. 30	7. 48	·1088					
7. 56	25. 5	8. 7	·1092					
8. 18	24. 30	8. 30	·1082					
8. 31	22. 45	9. 0	·1084					
8. 52	26. 10	9. 22	·1081					
9. 15	30. 0	10. 0	·1084					
9. 39	28. 30	10. 10	·1094					
10. 6	30. 50	10. 47	·1086					
10. 16	30. 0	11. 9	·1092					
10. 44	32. 30	11. 25	·1088					
11. 7	30. 30	11. 45	·1092					
11. 22	31. 0	12. 27	·1091					
11. 44	29. 45	13. 8	·1100					
12. 7	30. 0	13. 25	·1089					
12. 40:	34. 20	13. 44	·1087					
13. 22	28. 40	14. 7	·1100					
13. 42	33. 45	14. 28	·1096					
13. 56	33. 40	15. 7	·1104					
14. 30	26. 50	15. 30	·1096					
14. 44	26. 50	16. 10	·1088					
15. 10	23. 50	17. 10	·1097					
	***	17. 25	·1108					
16. 12	27. 25	17. 32	·1100					
16. 35	26. 20	18. 5	·1100					
17. 15	26. 40	18. 40	·1070					
17. 28	29. 10	18. 57	·1070					
17. 41	27. 0	19. 30	·1098					
17. 52	26. 45	20. 0	·1097					
18. 14	31. 30	20. 50	·1084					
18. 40	33. 30	21. 8	·1086					
18. 59	29. 30	22. 5	·1060					
19. 18	32. 20		***					
19. 52	27. 25	23. 55	·1084					
	***		(†)					
20. 55	30. 0							
22. 11	36. 55							
22. 20	36. 30							
23. 0	38. 10							
23. 18	38. 15							
23. 45	40. 0							
23. 56	40. 30							
	(†)							
Sept. 2		Sept. 2		Sept. 2		Sept. 2		
	(†)	0. 10	·1079	0. 0	·02286	1. 0	63·2	64·4
0. 5	21. 37. 35		***	1. 40	·02106	3. 0	65·5	66·2
0. 40	38. 30	1. 55	·1088	4. 26	·01630	9. 0	67·3	67·4

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 2		Sept. 2		Sept. 2		Sept. 2		
h m	° ′ ″	h m		h m		h m	°	°
0. 59	21. 37. 20	2. 13	·1097	4. 43	·01650	21. 0	66·0	67·0
1. 10	38. 25		***	6. 18	·01587			
1. 52	34. 30	3. 47	·1101		***			
2. 21	35. 55	4. 15	·1092	10. 22	·01540			
2. 39	33. 40	4. 35	·1098	12. 42	·01566			
4. 0	31. 40	4. 53	·1124	13. 26	·01539			
4. 17	29. 0	5. 6	·1112	19. 39	{·01550			
4. 40	24. 0	5. 39	·1101		{·01640			
4. 56	26. 35	5. 57	·1104	22. 25	·01622			
5. 12	27. 20	6. 3	·1100	23. 59	·01660			
5. 32	26. 0		***					
6. 12	28. 0	7. 36	·1099					
7. 14	27. 30	7. 53	·1104					
8. 0	15. 30	8. 14	·1124					
8. 44	26. 20		***					
9. 0	24. 30	9. 15	·1098					
9. 43	28. 45	10. 15	·1115					
9. 55	28. 30	10. 28	·1094					
10. 15	29. 35	11. 38	·1105					
10. 40	28. 30	11. 50	·1102					
12. 29	28. 30		***					
12. 44	33. 30	13. 24	·1110					
12. 56	34. 10	14. 0	·1104					
13. 39	28. 10	18. 30:	·1104					
14. 13	26. 35		***					
15. 25	25. 30	22. 25	·1062					
15. 40	24. 30	23. 10	·1074					
16. 51	26. 0	23. 59	·1075					
	***							
19. 14	22. 30							
19. 56	23. 10							
21. 37	29. 30							
22. 30	34. 30							
23. 59	36. 0							
Sept. 3		Sept. 3		Sept. 3		Sept. 3		
0. 0	21. 36. 0	0. 0	·1075	0. 0	·01660	1. 0	69·0	71·5
0. 33	36. 0		***	3. 43	·01743	3. 0	71·0	73·0
0. 58	36. 40	3. 40	·1080	8. 27:	·01695	9. 0	71·8	72·5
1. 42	35. 30	4. 0	·1087	12. 55	·01964	21. 0	68·4	69·0
3. 43	27. 50		***		·02413			
4. 30	26. 10	5. 25	·1085	17. 33	{·02600			
5. 11	26. 0	6. 20	·1088	20. 15	{·02533			
6. 34	28. 10	6. 40	·1096		{·02557			
6. 52	26. 30	7. 45	·1096	22. 7	{·02440			
7. 10	27. 0	8. 14	·1107		·02447			
7. 44	25. 0	9. 0	·1100	23. 59				
8. 13	21. 55	11. 30	·1101					
8. 56	27. 10	12. 20	·1098					
15. 24	27. 15	16. 0	·1099					
15. 58	26. 20	21. 12	·1082					
16. 15	26. 45	23. 14	·1097					
16. 52	25. 30	23. 59	·1091					
17. 22	26. 25							
17. 55	24. 20							
	***							
19. 28	22. 30							
22. 10	27. 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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V.F. Magnet.
Sept. 3								
h m	° ′ ″	h m		h m		h m	°	°
22. 39	21. 29. 30							
23. 59	32. 20							
Sept. 4		Sept. 4		Sept. 4		Sept. 4		
0. 0	21. 32. 20	0. 0	·1091	0. 0	·02447	1. 0	69 ·0	69 ·0
2. 0	32. 10	1. 55	·1102	4. 30	·02419	3. 0	67 ·5	69 ·0
2. 29	30. 50	2. 25	·1098	7. 17	·02340	9. 0	68 ·8	68 ·0
2. 52	30. 45	2. 55	·1102	9. 56	·02347	22. 0	62 ·5	65 ·4
3. 10	29. 35	5. 0	·1093	13. 7:	·02320			
4. 55	27. 40	6. 0	·1093	18. 45:	·02544			
7. 51	27. 30	7. 11	·1102	23. 59	·02480			
8. 22	26. 20	8. 55	·1102					
8. 56	27. 15	9. 18	·1110					
9. 28	26. 20	9. 40	·1102					
10. 10	26. 50		***					
16. 44	26. 30	18. 15	·1100					
19. 35:	23. 30	20. 30	·1087					
22. 44	30. 0	22. 30	·1086					
23. 59	32. 0	23. 59	·1094					
Sept. 5		Sept. 5		Sept. 5		Sept. 5		
0. 0	21. 32. 0	0. 0	·1094	0. 0	·02480	7. 30	65 ·0	66 ·8
0. 26	32. 0	1. 15	·1095	2. 30:	·02516	21. 5	58 ·0	60 ·0
0. 54	33. 0	2. 15	·1089	5. 48	·02095			
2. 36	31. 50	2. 55	·1092	7. 44	·01916			
4. 21	28. 45	3. 15	·1087	10. 59:	·02076			
5. 1	29. 0	3. 30	·1090	14. 53	·02487			
6. 13	28. 10	4. 6	·1084		·02417			
7. 26	28. 50	4. 47	·1085	19. 44	·02443			
16. 10	27. 0	6. 10	·1097		(†)			
20. 11	24. 15	7. 30	·1092	21. 5	·02479*			
21. 22:	26. 30	12. 20	·1100		(†)			
22. 59	33. 20	17. 0:	·1105					
23. 59	33. 30	21. 30	·1091					
		22. 30	·1090					
		23. 59	·1090					
Sept. 6		Sept. 6		Sept. 6		Sept. 6		
0. 0	21. 33. 30	0. 0	·1090	0. 0	·02437	1. 0	60 ·7	62 ·0
0. 22	33. 40	5. 0	·1093	2. 36	·02086	3. 0	62 ·2	63 ·8
0. 45	33. 0	8. 0	·1101	6. 10	·01453	9. 0	63 ·0	65 ·0
2. 40	31. 50		***		·01526	21. 0	61 ·0	62 ·0
4. 40	28. 15	10. 20	·1104	9. 58	·01466			
6. 15	29. 10	10. 50	·1101	18. 10:	·01804			
9. 56	28. 30	12. 47	·1104	22. 0	·01850			
10. 58	27. 10	13. 15	·1108	22. 45	·01827			
12. 21	27. 30	13. 45	·1105		(†)			
12. 40	26. 40	16. 45:	·1108					
12. 52	27. 25	21. 0	·1086					
13. 40	24. 55	22. 30	·1080					
13. 51	25. 20	23. 59	·1085					
18. 40	22. 10							
19. 51	22. 35							
21. 19	26. 20							
22. 42	34. 0							
23. 59	36. 30							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V.F. Magnet.
Sept. 7		Sept. 7		Sept. 7		Sept. 7		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 36. 30	0. 0	·1085		(†)	1. 0	63 ·8	64 ·0
1. 45	37. 0	1. 7	·1084	0. 14	·01683	3. 0	64 ·7	65 ·6
2. 39	35. 20	2. 41	·1093	2. 11	·01470	9. 0	64 ·2	66 ·0
2. 51	35. 25	2. 59	·1101		·01566	21. 0	63 ·0	65 ·3
3. 13	33. 35	3. 13	·1097	10. 0	·01548			
3. 23	33. 40		***	14. 37	·01773			
4. 43	29. 0	4. 28	·1106	15. 22	·01737			
5. 51	28. 10	4. 45	·1102	17. 37	·01830			
6. 28	28. 30	5. 0	·1106	19. 45	·01817			
	***	5. 36	·1104		·01653			
7. 32	26. 20	5. 43	·1109	21. 36	·01618			
7. 59	26. 20	6. 35	·1110	23. 4	·01537			
8. 25	24. 30	6. 43	·1101		·01616			
8. 50	25. 50	7. 0	·1110	23. 59	·01607			
9. 0	23. 30	7. 25	·1112					
9. 12	25. 0	8. 0	·1104					
9. 51	19. 30	8. 37	·1102					
9. 58	20. 20	9. 0	·1108					
10. 13	16. 55	9. 16	·1100					
10. 24	17. 50	9. 35	·1108					
10. 40	16. 25	9. 39	·1104					
10. 54	17. 0	9. 47	·1107					
11. 26	15. 30	9. 58	·1088					
11. 51	16. 20	10. 9	·1100					
12. 14	13. 40	10. 30	·1090					
12. 51	23. 30	10. 41	·1094					
13. 13	21. 0	10. 55	·1103					
13. 22	21. 30		***					
13. 40	17. 0	12. 14	·1094					
13. 56	15. 55	12. 30	·1095					
14. 11	17. 25	13. 8	·1107					
14. 40	31. 20	13. 29	·1109					
15. 0	27. 20	13. 45	·1103					
15. 10	26. 50	14. 2	·1105					
15. 22	23. 10	14. 25	·1094					
15. 52	19. 40	14. 55	·1128					
16. 7	22. 35	15. 21	·1114					
	***	15. 55	·1125					
16. 54	21. 45	16. 24	·1112					
17. 14	20. 20	17. 45	·1113					
17. 28	21. 40	18. 45	·1100					
17. 42	21. 10	18. 57	·1103					
17. 58	22. 50		***					
18. 10	21. 20	19. 43	·1097					
18. 36	21. 10	20. 7	·1086					
18. 53	18. 50	20. 24	·1090					
	***	20. 50	·1078					
19. 40	21. 55	21. 6	·1079					
19. 43	24. 30	21. 40	·1072					
19. 49	23. 40	22. 0	·1080					
	***	22. 45	·1117					
20. 22	26. 30	23. 10	·1109					
	***	23. 59	·1108					
21. 15	32. 30							
21. 40	31. 0							
22. 0	33. 20							
22. 19	33. 10							
22. 50	36. 30							

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 7								
h m	° ′ ″	h m		h m		h m	°	°
23. 12	21. 36. 25							
23. 59	37. 45							
Sept. 8		Sept. 8		Sept. 8		Sept. 8		
0. 0	21. 37. 45	0. 0	·1108	0. 0	·01607	1. 0	66 ·3	67 ·5
3. 32	30. 0		***	3. 0	{·01690	3. 0	67 ·2	69 ·3
5. 28:	27. 30	3. 36	·1076		{·01784	9. 0	65 ·5	67 ·0
7. 43	28. 55	3. 44	·1079	7. 25:	·01664	21. 0	59 ·2	61 ·0
8. 30	29. 10	4. 15	·1071	12. 34	·02157			
10. 51	26. 20		***	15. 0	{·02470			
12. 11	26. 0	6. 0	·1083		{·02407			
12. 43	22. 20	6. 25	·1081	18. 11	·02416			
12. 59	24. 0	7. 14	·1087	19. 32	·02385			
13. 18	22. 40		***	22. 55	·02456			
13. 52	27. 30	8. 40	·1086	23. 59	·02392			
13. 59	27. 25	9. 15	·1091					
14. 12	29. 0	10. 50	·1086					
14. 51	22. 0	11. 30	·1090					
15. 0	26. 30	12. 5	·1105					
15. 7	26. 0	13. 0	·1094					
15. 15	28. 0	13. 26	·1098					
15. 44	22. 30	13. 32	·1094					
15. 51	23. 35	13. 57	·1105					
15. 59	21. 20	14. 25	·1113					
16. 7	22. 30		***					
16. 22	21. 30	17. 0	·1117					
16. 26	23. 0	17. 55	·1098					
17. 11	27. 50	18. 25	·1113					
17. 22	27. 45	19. 14	·1122					
17. 41	30. 50	19. 30	·1108					
17. 52	31. 40	20. 25	·1088					
18. 0	34. 0	21. 0	·1082					
18. 39	32. 45	21. 30	·1083					
18. 45	33. 20	22. 15	·1067					
19. 12	30. 50	22. 57	·1065					
19. 28	27. 30	23. 14	·1074					
19. 58	29. 40	23. 25	·1069					
20. 12	28. 20	23. 55	·1080					
	***							
20. 45	28. 0							
20. 51	28. 50							
21. 7	28. 20							
22. 10	34. 30							
	***							
22. 55	36. 35							
23. 0	35. 50							
	***							
23. 16	37. 20							
23. 30	35. 30							
23. 59	35. 20							
Sept. 9		Sept. 9		Sept. 9		Sept. 9		
0. 0	21. 35. 15	0. 0	·1077	0. 0	·02392	1. 0	63 ·0	64 ·8
	***	0. 19	·1084	1. 43	·02012	3. 0	66 ·5	68 ·0
0. 29	36. 0	0. 44	·1074	3. 9	{·01493	9. 0	67 ·4	68 ·2
0. 44	34. 20	1. 5	·1084		{·01556	21. 0	65 ·2	66 ·2
1. 0	36. 0	1. 45	·1075	4. 10	·01470			
1. 11	34. 20	2. 26	·1094	8. 36	·01396			

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 9		Sept. 9		Sept. 9				
h m	° ′ ″	h m		h m		h m	°	°
1. 40	21. 35. 30	2. 45	·1084	14. 0	·01412			
2. 11	31. 0		***	20. 56:	·01750			
2. 22	31. 40	4. 30	·1088	23. 59	·01560			
2. 51	30. 50	5. 17	·1083					
2. 56	31. 30		***					
5. 24	27. 30	6. 40	·1095					
6. 23	27. 30	7. 30	·1094					
6. 35	28. 35	7. 50	·1099					
8. 55	28. 0	8. 30	·1094					
12. 20	26. 30	10. 3	·1094					
12. 40	24. 0	11. 15	·1096					
12. 54	23. 30	12. 32	·1105					
13. 15	26. 20	13. 0	·1097					
13. 39	23. 30	13. 30	·1108					
13. 54	22. 15	14. 0	·1101					
14. 15	23. 0	14. 15	·1090					
14. 50	27. 55	14. 40	·1089					
15. 43	25. 30	15. 10	·1084					
	***	17. 36	·1099					
17. 45	25. 0	19. 55	·1088					
18. 42	23. 30	20. 54	·1074					
19. 21	23. 30		***					
19. 39	22. 0	22. 35	·1070					
20. 25	24. 20	23. 50	·1074					
20. 42	26. 55		(†)					
21. 12	27. 30							
22. 13	33. 40							
22. 22	33. 30							
23. 17	38. 45							
23. 43	40. 20							
23. 59	39. 50							
Sept. 10		Sept. 10		Sept. 10		Sept. 10		
0. 0	21. 39. 50		(†)	0. 0	·01560	1. 0	67 ·2	68 ·0
0. 33	36. 10	0. 30	·1078	1. 55	{·01387	3. 0	68 ·4	69 ·2
0. 42	37. 20	1. 6	·1082		{·01472	9. 0	68 ·0	69 ·0
1. 10	37. 30	1. 48	·1073	10. 28:	·01426	21. 0	66 ·0	68 ·0
1. 52	35. 30	2. 11	·1081	20. 0:	·01818			
2. 10	36. 30	2. 45	·1077	23. 52	·01720			
3. 26	31. 55	3. 45	·1086		(†)			
5. 22	28. 20		***					
6. 29	28. 0	5. 15	·1081					
6. 48	28. 30	5. 30	·1087					
7. 40	27. 0		***					
15. 36	25. 30	7. 45	·1088					
16. 15	26. 10	8. 45	·1096					
16. 28	27. 0		***					
17. 26	24. 30	14. 54	·1097					
18. 9	26. 10	16. 15	·1100					
18. 52	23. 0	17. 17	·1106					
19. 22	23. 30	18. 10	·1097					
19. 44	21. 30	18. 46	·1098					
19. 55	24. 30	20. 15	·1083					
20. 10	22. 30	21. 0	·1078					
20. 16	25. 0	22. 0	·1086					
21. 17	25. 30	22. 42	·1072					
22. 52	35. 20	23. 45	·1071					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 10		Sept. 10						
h m	° ′ ″	h m		h m		h m	°	°
23. 10	21. 34. 50	23. 59	·1066					
23. 59	38. 30							
Sept. 11		Sept. 11		Sept. 11		Sept. 11		
0. 0	21. 38. 30	0. 0	·1066	1. 0	·01671*	1. 0	68 ·7	69 ·0
0. 15	39. 45		***	3. 0	·01493*	3. 0	68 ·5	69 ·0
0. 43	38. 20	1. 45	·1077	9. 0	·01500*	9. 0	69 ·0	69 ·5
1. 7	38. 45	2. 0	·1087	21. 30	·01354*	21. 30	62 ·5	62 ·5
1. 46	37. 20	2. 20	·1090					
1. 57	39. 0	2. 40	·1076					
2. 10	38. 20		***					
2. 15	39. 30	3. 40	·1079					
2. 43	34. 30	4. 0	·1089					
3. 0	33. 45	4. 25	·1082					
3. 24	34. 40	4. 44	·1087					
3. 44	33. 40	5. 0	·1087					
3. 55	34. 10	5. 15	·1093					
4. 52	30. 50	5. 40	·1090					
5. 58	28. 20		***					
6. 26	25. 35	6. 10	·1094					
6. 55	20. 0	6. 27	·1084					
7. 12	24. 0	7. 0	·1102					
	***		***					
7. 35	21. 0	8. 0	·1097					
7. 44	21. 50	8. 10	·1102					
8. 10	21. 35	8. 24	·1082					
8. 16	22. 0	8. 45	·1111					
8. 38	7. 0	9. 4	·1112					
8. 59	14. 50	9. 30	·1094					
9. 40	24. 10	9. 40	·1101					
9. 45	22. 10	9. 53	·1093					
9. 59	24. 45	10. 0	·1098					
10. 11	20. 30	10. 10	·1094					
10. 15	21. 50	10. 23	·1099					
10. 45	19. 30	10. 32	·1092					
10. 51	20. 0	10. 40	·1093					
11. 0	17. 20	10. 55	·1086					
11. 40	23. 55	11. 45	·1095					
12. 39	24. 10	12. 20	·1092					
13. 9	23. 30	12. 45	·1097					
13. 39	25. 15	13. 22	·1095					
14. 52	25. 0	16. 55	·1104					
15. 25	26. 0	17. 52	·1099					
16. 0	25. 30		(†)					
16. 36	26. 30	21. 14	·1090					
16. 59	25. 0	21. 55	·1079					
18. 10	24. 20	23. 0	·1057					
	(†)		***					
21. 14	26. 0	23. 48	·1052					
23. 43	39. 40	23. 59	·1041					
23. 59	39. 15							
Sept. 12		Sept. 12		Sept. 12		Sept. 12		
0. 0	21. 39. 15	0. 0	·1041	7. 8	·01650*	7. 8	75 ·0	75 ·6
0. 45	42. 5	1. 10	·1048	21. 0	·02558*	21. 0	65 ·0	65 ·5
1. 28	40. 30	1. 29	·1045					
1. 40	42. 20	1. 40	·1050					
	***	1. 57	·1046					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 12		Sept. 12						
h m	° ′ ″	h m		h m		h m	°	°
2. 59	21. 35. 35	2. 14	·1057					
3. 39	35. 50	2. 24	·1052					
5. 0	30. 0	3. 20	·1059					
6. 0	20. 20	4. 22	·1051					
6. 11	20. 40	4. 41	·1060					
6. 15	17. 50	4. 53	·1051					
6. 30	16. 45	5. 10	·1057					
6. 44	20. 0	5. 35	·1050					
7. 58	26. 30	6. 0	·1058					
9. 39	22. 30	6. 27	·1068					
10. 30	25. 15	7. 10	·1061					
11. 6	21. 30	9. 2	·1077					
11. 26	26. 10	9. 15	·1072					
11. 34	24. 40	10. 20	·1079					
11. 45	26. 10	10. 40	·1076					
12. 11	22. 0	11. 12	·1114					
12. 36	21. 30	11. 53	·1082					
13. 27	22. 20	12. 15	·1091					
14. 30	29. 0	13. 15	·1082					
14. 44	28. 5	14. 1	·1084					
15. 6	29. 50	14. 15	·1079					
16. 0	24. 20	15. 40	·1093					
17. 7	25. 50	17. 37	·1098					
	***	17. 42	·1092					
19. 0	22. 30	17. 48	·1101					
19. 17	23. 20		***					
19. 39	22. 40	19. 10	·1097					
21. 5	25. 20		***					
22. 55	35. 15	21. 41	·1066					
23. 59	39. 35	22. 7	·1071					
		23. 1	·1064					
		23. 35	·1068					
		23. 59	·1064					
Sept. 13		Sept. 13		Sept. 13		Sept. 13		
0. 0	21. 39. 35	0. 0	·1064	1. 0	·02197*	1. 0	68 ·0	70 ·0
0. 28	40. 20	1. 15	·1058	3. 0	·01602*	3. 0	72 ·0	73 ·2
0. 59	39. 0		***	9. 0	·01645*	9. 0	73 ·0	72 ·5
1. 30	36. 5	4. 15	·1058	21. 6	·02341*	21. 6	64 ·4	64 ·8
1. 51	36. 30	6. 4	·1065					
3. 14	31. 50		***					
3. 50	29. 0	7. 54	·1075					
3. 56	29. 5	8. 6	·1071					
5. 0	26. 10	8. 33	·1074					
6. 49	25. 10	8. 45	·1082					
7. 22	23. 30	9. 0	·1089					
7. 55	25. 30	9. 30	·1084					
8. 13	24. 0	9. 55	·1088					
8. 40	26. 30	10. 13	·1087					
9. 0	24. 45	10. 30	·1096					
9. 15	26. 20	10. 47	·1094					
9. 30	24. 20	11. 6	·1098					
9. 46	26. 50	11. 26	·1093					
10. 15	26. 10	12. 42	·1091					
10. 42	28. 30		***					
10. 52	27. 5	13. 36	·1103					
11. 12	28. 50	14. 0	·1096					
12. 0	27. 0	14. 12	·1108					

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

September 11 to 24. The time-piece giving motion to the Vertical Force cylinder having been injured was away for repair.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 13		Sept. 13						
h m	° ′ ″	h m		h m		h m	°	°
12. 22	21. 28. 10	14. 23	·1101					
	***	15. 10	·1115					
13. 11	29. 30	16. 25	·1108					
14. 0	27. 0	18. 30	·1109					
14. 11	28. 50	19. 25	·1104					
14. 22	27. 30	19. 45	·1106					
14. 37	29. 0	22. 15	·1080					
15. 30	19. 10	23. 45	·1082					
15. 53	19. 45	23. 59	·1068					
16. 28	22. 15							
17. 7	23. 15							
18. 21	21. 50							
	***							
19. 30	22. 0							
20. 12	24. 45							
20. 40	24. 25							
22. 6	30. 50							
23. 42	34. 30							
23. 46	35. 50							
23. 59	33. 30							
Sept. 14		Sept. 14		Sept. 14		Sept. 14		
0. 0	21. 33. 30	0. 0	·1068	1. 0	·01960*	1. 0	69 ·0	68 ·6
0. 51	34. 30	0. 55	·1069	3. 0	·01474*	3. 0	72 ·0	71 ·7
1. 28	37. 30	1. 9	·1074	9. 0	·01471*	9. 0	70 ·7	70 ·6
1. 51	35. 0	1. 43	·1065	21. 0	·02367*	21. 0	65 ·0	65 ·2
3. 10	32. 30	2. 45	·1070					
3. 22	32. 45	3. 5	·1066					
4. 43	28. 20	3. 30	·1072					
16. 45	24. 35	4. 19	·1070					
17. 14	25. 35	6. 35	·1076					
17. 40	24. 30	7. 40	·1086					
17. 51	25. 30	9. 45	·1082					
19. 25	22. 45		***					
19. 39	23. 25	13. 25	·1091					
20. 10	21. 45		***					
21. 15	26. 30	16. 30:	·1098					
22. 5	31. 10	19. 0	·1093					
22. 22	33. 45	20. 15	·1071					
22. 51	35. 0	23. 0	·1063					
23. 15	35. 20	23. 35	·1068					
23. 59	35. 50	23. 59	·1061					
Sept. 15		Sept. 15		Sept. 15		Sept. 15		
0. 0	21. 35. 50	0. 0	·1061	1. 0	·02282*	1. 0	67 ·6	67 ·3
0. 40	37. 45	0. 40	·1074	3. 0	·01742*	3. 0	70 ·2	70 ·0
0. 51	37. 0	0. 50	·1068	9. 0	·01489*	9. 0	69 ·0	69 ·0
1. 15	39. 30	1. 40	·1064	21. 0	·02341*	21. 0	63 ·0	63 ·6
2. 15	32. 30	2. 30	·1077					
2. 28	32. 55		***					
3. 55	28. 45	3. 53	·1075					
4. 7	29. 0	4. 10	·1083					
4. 15	27. 0	4. 47	·1075					
6. 36	26. 20	5. 25	·1084					
6. 54	26. 55	5. 50	·1087					
7. 22	24. 5	6. 29	·1080					
7. 38	25. 30	6. 51	·1087					
7. 52	20. 20	7. 5	·1082					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
8. 7	21. 21. 45	7. 40	·1094					
8. 25	22. 0	7. 52	·1102					
9. 10	27. 55	8. 11	·1086					
9. 40	28. 20		***					
12. 40	25. 30	12. 33	·1090					
13. 10	28. 30	12. 45	·1086					
13. 50	25. 30	13. 19	·1096					
14. 10	26. 0	13. 40	·1092					
14. 45	24. 30	15. 12	·1094					
15. 22	26. 0	18. 10	·1103					
16. 29	25. 30		***					
16. 55	26. 10	23. 59	·1072					
17. 10	25. 30							
17. 51	25. 35							
18. 0	24. 30							
18. 51	24. 20							
19. 15	22. 50							
20. 10	23. 0							
21. 0	24. 30							
23. 13	32. 30							
23. 36	34. 30							
23. 59	33. 45							
Sept. 16		Sept. 16		Sept. 16		Sept. 16		
0. 0	21. 33. 45	0. 0	·1072	1. 0	·02039*	1. 0	67 ·0	66 ·7
0. 30	34. 0	3. 30	·1075	3. 0	·01474*	3. 0	70 ·2	70 ·4
4. 27	28. 40	4. 35	·1071	9. 0	·01415*	9. 0	69 ·7	69 ·0
8. 36	27. 30	6. 15	·1078	21. 0	·02341*	21. 0	64 ·0	64 ·0
9. 6	28. 5	7. 13	·1087					
9. 52	25. 0	8. 44	·1088					
10. 26	26. 20	9. 29	·1098					
10. 51	25. 35	9. 59	·1092					
11. 14	27. 0	10. 10	·1094					
11. 40	26. 20	10. 30	·1090					
11. 52	27. 35	11. 42	·1092					
13. 6:	23. 30	12. 0	·1104					
14. 6	25. 0	12. 25	·1098					
14. 35	24. 30	13. 55	·1094					
15. 40	26. 30	19. 15:	·1104					
18. 13	25. 30	21. 0	·1097					
20. 0	23. 30	22. 30	·1097					
23. 10	31. 40	23. 17	·1091					
23. 22	31. 0	23. 59	·1099					
23. 59	33. 45							
Sept. 17		Sept. 17		Sept. 17		Sept. 17		
0. 0	21. 33. 45	0. 0	·1099	1. 0	·02157*	1. 0	66 ·0	65 ·8
1. 43	32. 30	1. 35	·1099	3. 0	·01894*	3. 0	67 ·8	67 ·6
2. 10	30. 55	2. 7	·1094	9. 0	·01342*	9. 0	69 ·0	68 ·4
2. 40	30. 5	2. 15	·1098	21. 0	·02144*	21. 0	64 ·2	63 ·8
2. 50	31. 0	2. 42	·1098					
3. 10	29. 45	2. 49	·1105					
3. 40	29. 0	3. 7	·1094					
3. 46	30. 10	3. 41	·1097					
4. 58:	28. 20	3. 50	·1106					
6. 14	28. 40	4. 25	·1093					
7. 15:	26. 45	4. 31	·1098					
8. 10	27. 20	4. 45	·1086					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept.17		Sept.17						
h m	° ′ ″	h m		h m		h m	°	°
9. 10	21. 22. 30	5. 30	·1091					
9. 45	25. 10	5. 52	·1099					
11. 22	27. 0	6. 42	·1096					
13. 40	26. 0	7. 55	·1098					
18. 9	26. 0	8. 23	·1104					
20. 25:	22. 45	9. 12	·1100					
22. 12	27. 30	9. 40	·1104					
22. 59	31. 50	10. 8	·1102					
23. 59	34. 0	12. 14	·1106					
		12. 56	·1104					
		13. 15	·1108					
		15. 13	·1098					
		19. 20:	·1100					
		21. 45	·1075					
		23. 10.	·1071					
		23. 59	·1075					
Sept.18		Sept.18		Sept.18		Sept.18		
0. 0	21. 34. 0	0. 0	·1075	1. 0	·02013*	1. 0	65 ·3	64 ·6
0. 50	37. 20	3. 25	·1089	3. 0	·01714*	3. 0	67 ·0	66 ·0
3. 36	30. 40	3. 40	·1085	9. 0	·01369*	9. 0	66 ·0	65 ·0
5. 10	29. 10	4. 55	·1084	22. 30	·02249*	22. 30	55 ·0	56 ·0
5. 24	28. 30	6. 24	·1093					
7. 21	27. 30	7. 10	·1093					
7. 45	26. 0	7. 31	·1099					
8. 42	26. 30	8. 7	·1092					
9. 43	24. 10	9. 10	·1095					
10. 10	25. 30	9. 21	·1090					
11. 43	25. 35	11. 40	·1104					
12. 40	27. 50	18. 5	·1122					
17. 30	26. 30	19. 8	·1121					
18. 51	23. 30	19. 55	·1133					
19. 10	24. 0		***					
19. 13	18. 0	21. 44	·1108					
19. 17	22. 0	21. 59	·1114					
	***	22. 13	·1108					
19. 42	20. 30	22. 28	·1113					
	***	22. 57	·1136					
20. 11	22. 0	23. 13	·1104					
20. 15	18. 20		(†)					
20. 42	23. 30							
20. 50	21. 40							
21. 25	29. 30							
21. 30	29. 5							
22. 4	35. 10							
22. 52	38. 30							
23. 10	38. 5							
23. 33	44. 50							
23. 52	40. 30							
23. 59	41. 0							
Sept.19		Sept.19		Sept.19		Sept.19		
0. 0	21. 41. 0		(†)	6. 37	·01750*	6. 37	60 ·4	59 ·8
0. 9	40. 20	1. 0	·1021	21. 0	·01202*	21. 0	61 ·0	60 ·6
0. 15	42. 30	2. 0	·1118					
0. 22	40. 30	2. 30	·1106					
0. 29	41. 30	3. 20	·1128					
0. 41	38. 30		***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept.19		Sept.19						
h m	° ′ ″	h m		h m		h m	°	°
0. 45	21. 39. 45	4. 35	·1124					
1. 0	37. 20	4. 48	·1110					
1. 15	37. 50	5. 2	·1121					
1. 29	37. 20	5. 15	·1116					
1. 52	38. 45	5. 30	·1124					
2. 13	38. 40		***					
2. 56	33. 20	9. 5	·1126					
3. 50	33. 0		***					
4. 26	30. 20	12. 35	·1119					
4. 30	31. 10	12. 55	·1124					
4. 45	28. 0	13. 3	·1128					
5. 12	27. 20	13. 15	·1117					
	***	13. 35	·1113					
11. 40	27. 0	14. 0	·1120					
12. 39	25. 0	14. 25	·1117					
12. 45	25. 5	15. 40	·1126					
14. 22	23. 30	15. 55	·1116					
15. 0	22. 15	16. 18	·1116					
15. 14	23. 45	16. 50	·1122					
15. 29	23. 20	17. 14	·1114					
15. 52	19. 50		***					
16. 12	20. 0	18. 35	·1104					
16. 21	20. 50	19. 15	·1110					
16. 41	18. 30		***					
17. 15	21. 40	20. 45	·1098					
17. 40	21. 0	20. 55	·1106					
17. 44	22. 30	21. 27	·1101					
17. 56	21. 15	21. 41	·1088					
18. 2	22. 45	22. 0	·1098					
18. 40	21. 0		***					
19. 15	21. 10	23. 32	·1084					
19. 50	27. 40	23. 59	·1088					
19. 59	26. 0							
	***							
21. 10	24. 15							
21. 16	26. 45							
21. 29	25. 0							
21. 33	28. 20							
21. 40	27. 50							
22. 10	30. 0							
	***							
23. 30	36. 45							
23. 40	36. 0							
23. 59	39. 30							
Sept.20		Sept.20		Sept.20		Sept.20		
0. 0	21. 39. 30	0. 0	·1088	1. 0	·01447*	1. 0	62 ·0	61 ·2
0. 10	40. 35	0. 20	·1100	3. 0	·01453*	3. 0	63 ·7	62 ·8
0. 21	40. 5	1. 55	·1103	9. 0	·01432*	9. 0	64 ·5	64 ·5
0. 40	35. 35	2. 36	·1095	21. 0	·01737*	21. 0	61 ·0	61 ·2
1. 35	40. 0	2. 45	·1087					
2. 10	38. 30	3. 9	·1084					
2. 40	37. 40	3. 30	·1097					
2. 45	36. 0	3. 46	·1086					
	***	4. 15	·1124					
3. 19	34. 10	4. 41	·1108					
3. 39	36. 0	5. 15	·1100					
4. 10	23. 30	5. 30	·1111					
			***					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept.20		Sept.20						
h m	° ′ ″	h m		h m		h m	°	°
4. 40	21. 40. 0	5. 58	·1115					
4. 59	31. 30	6. 10	·1108					
5. 43	30. 30	6. 35	·1096					
6. 0	31. 10	6. 55	·1109					
6. 19	28. 40	7. 15	·1100					
6. 30	29. 15	7. 41	·1098					
6. 58	27. 0	7. 56	·1084					
7. 10	27. 30	8. 16	·1091					
7. 25	24. 55	8. 40	·1079					
	***	8. 55	·1089					
7. 45	25. 30	9. 16	·1087					
7. 52	27. 5	9. 31	·1077					
8. 14	20. 10	9. 45	·1082					
8. 41	25. 0	10. 0	·1081					
8. 58	20. 40	10. 28	·1122					
9. 10	21. 10	10. 44	·1093					
9. 21	19. 55	10. 58	·1099					
9. 30	21. 0	11. 14	·1091					
9. 45	17. 30		***					
10. 4	22. 30	11. 55	·1086					
10. 25	18. 5	12. 25	·1111					
10. 43	23. 40	12. 45	·1100					
10. 58	12. 30	12. 55	·1106					
11. 17	16. 0	13. 12	·1091					
11. 45	34. 50	13. 45	·1112					
12. 24	11. 0	14. 0	·1112					
12. 29	11. 0	14. 23	·1099					
12. 50	7. 25	15. 25	·1110					
13. 1	11. 30	15. 43	·1098					
13. 14	11. 50	16. 15	·1088					
13. 41	20. 15	17. 10	·1106					
14. 6	16. 0	17. 59	·1111					
14. 24	20. 30	18. 50	·1101					
14. 44	17. 55	19. 23	·1084					
14. 54	18. 10	19. 52	·1097					
15. 10	17. 10	20. 25	·1101					
15. 34	20. 30	20. 55	·1100					
15. 40	20. 5		***					
16. 29	31. 10	22. 45	·1074					
17. 14:	24. 30	23. 0	·1078					
18. 12	26. 45	23. 23	·1070					
18. 59:	31. 0	23. 45	·1072					
19. 29	28. 55	23. 59	·1078					
19. 51	31. 0							
20. 21	29. 0							
20. 52	30. 50							
21. 22	29. 35							
21. 52	30. 50							
22. 15	32. 55							
23. 59	36. 10							
Sept.21		Sept.21		Sept.21		Sept.21		
0. 0	21. 36. 10	0. 0	·1079	1. 0	·01329*	1. 0	62 ·3	61 ·6
0. 30	35. 10	0. 55	·1088	3. 0	·01421*	3. 0	63 ·6	63 ·2
0. 50	36. 40	1. 26	·1082	9. 0	·01361*	9. 0	63 ·4	63 ·2
1. 39	35. 30	2. 7	·1085	21. 0	·01539*	21. 0	62 ·2	62 ·0
	***	2. 32	·1076					
2. 43	36. 20		***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept.21		Sept.21						
h m	° ′ ″	h m		h m		h m	°	°
3. 28	21. 32. 20	3. 45	·1072					
3. 39	27. 55	4. 5	·1092					
4. 0	23. 20	4. 35	·1098					
4. 56	28. 20	5. 5	·1094					
5. 15	27. 25	5. 30	·1096					
5. 39	27. 50	5. 50	·1093					
6. 14	25. 30	6. 16	·1098					
6. 39	26. 35	6. 42	·1091					
7. 10	24. 30	7. 0	·1094					
7. 26	25. 40	7. 25	·1086					
8. 40	12. 0	7. 45	·1093					
9. 10	37. 10	7. 55	·1087					
9. 25	22. 0	8. 14	·1091					
9. 40	18. 50	8. 26	·1086					
9. 44	19. 0	8. 40	·1128					
9. 55	16. 0	8. 45	·1120					
10. 29	21. 15	8. 50	·1127					
10. 43	18. 20	9. 6	·1082					
11. 10	15. 30	9. 30	·1100					
11. 22	17. 35	9. 44	·1089					
11. 43	19. 10		***					
12. 10	14. 30	10. 35:	·1097					
13. 32	33. 55		***					
14. 28	19. 30	11. 30	·1090					
15. 15	31. 30	12. 30	·1100					
15. 48	31. 0	13. 25	·1092					
16. 0	32. 30	14. 10	·1126					
16. 49	33. 5	14. 54	·1096					
18. 39	30. 0	15. 30	·1110					
18. 45	30. 50	16. 6	·1096					
19. 6	28. 50	16. 30	·1100					
19. 14	28. 50	16. 45	·1096					
19. 27	27. 0	17. 40	·1113					
19. 50	27. 15	18. 25	·1102					
20. 7	26. 0	19. 11	·1106					
20. 39	25. 30	20. 7	·1094					
20. 54	27. 20		***					
21. 0	26. 0	21. 30	·1104					
21. 54	31. 50		***					
22. 26:	30. 15	22. 30	·1081					
23. 21	34. 0	23. 25	·1099					
23. 59	33. 35	23. 59	·1101					
Sept.22		Sept.22		Sept.22		Sept.22		
0. 0	21. 33. 35	0. 0	·1101	1. 0	·01400*	1. 0	64 ·7	64 ·0
2. 10	32. 50		***	3. 0	·01474*	3. 0	66 ·6	66 ·0
3. 10	31. 10	3. 0	·1100	9. 0	·01533*	9. 0	68 ·5	67 ·5
3. 33	32. 0	3. 38	·1113	21. 0	·02131*	21. 0	64 ·2	63 ·4
	***	4. 25	·1085					
6. 0	24. 30	4. 55	·1102					
6. 15	20. 20	5. 13	·1101					
6. 30	12. 55	5. 23	·1108					
6. 40	16. 0	5. 30	·1098					
6. 45	14. 30	5. 52	·1107					
6. 59	24. 30		***					
7. 12	22. 55	6. 16	·1104					
7. 26	26. 50	6. 18	·1096					
7. 51	24. 20	6. 32	·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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept.22		Sept.22						
h m	° ′ ″	h m		h m		h m	°	°
8. 10	21. 24. 20	6. 44	·1099					
8. 22	26. 20	6. 50	·1106					
8. 45	22. 50	7. 2	·1090					
9. 13	25. 10	7. 14	·1096					
9. 41	21. 17. 0	7. 27	·1086					
10. 12	20. 56. 10	7. 54	·1086					
10. 52	21. 24. 50	8. 28	·1106					
11. 0	25. 15	8. 55	·1101					
11. 24	21. 0	9. 1	·1118					
11. 40	20. 15	9. 14	·1088					
11. 47	21. 20	9. 30	·1112					
12. 15	17. 0	9. 39	·1102					
12. 45	19. 50		***					
13. 25	19. 0	10. 14	·1108					
13. 36	22. 50	10. 25	·1075					
13. 46	32. 0	10. 40	·1092					
13. 56	32. 0	11. 2	·1068					
15. 0	20. 20	11. 40	·1079					
15. 39	25. 30		***					
17. 0	26. 40	12. 21	·1072					
17. 24	25. 30	12. 39	·1080					
17. 40	26. 20		***					
19. 45	22. 55	13. 27	·1073					
21. 40	26. 20	13. 38	·1081					
23. 59	32. 55	13. 45	·1075					
			***					
		15. 15	·1092					
		15. 45	·1090					
		17. 40:	·1096					
		21. 40:	·1072					
			***					
		23. 59	·1072					
Sept.23		Sept.23		Sept.23		Sept.23		
0. 0	21. 32. 55	0. 0	·1073	1. 0	·01627*	1. 0	66 ·5	65 ·5
0. 20	33. 30	2. 5	·1071	3. 0	·01563*	3. 0	68 ·0	66 ·5
2. 1	32. 40	4. 25	·1084	9. 30	·01500*	9. 30	64 ·0	64 ·0
5. 9	28. 10		***	21. 0	·02078*	21. 0	62 ·0	61 ·8
7. 27	26. 35	10. 25	·1104					
12. 40	27. 20		***					
13. 21	26. 15	16. 7	·1116					
15. 0	26. 30	16. 45	·1102					
15. 45	24. 40	17. 10	·1112					
16. 9	25. 55	17. 43	·1096					
16. 21	24. 30		***					
16. 52:	28. 40	19. 5:	·1107					
17. 12	26. 40	21. 6	·1061					
17. 36	26. 40	21. 40	·1062					
17. 55	25. 40	22. 0	·1054					
18. 9	27. 0	22. 45	·1054					
18. 15	24. 15		***					
	***	23. 59	·1072					
18. 52	22. 30							
19. 8	23. 20							
19. 21	21. 30							
19. 59	21. 10							
20. 25	23. 30							
20. 52	23. 30							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept.23								
h m	° ′ ″	h m		h m		h m	°	°
21. 37	21. 30. 30							
	***							
22. 14	32. 10							
	***							
22. 36	34. 40							
	***							
23. 30	39. 10							
23. 50	37. 40							
23. 58	38. 30							
Sept.24		Sept.24		Sept.24		Sept.24		
0. 10	21. 37. 20	0. 0	·1072	1. 0	·02152*	1. 0	63 ·0	62 ·0
0. 41	37. 55	1. 30	·1094	3. 0	·01978*	3. 0	64 ·0	63 ·0
1. 0	40. 40	2. 20	·1068	9. 0	·02036*	9. 0	62 ·5	63 ·0
1. 10	40. 0	3. 5	·1088	21. 0	·02333*	21. 0	53 ·0	54 ·0
1. 26	40. 30	3. 51	·1076					
1. 30	41. 10	4. 10	·1099					
	***	4. 31	·1098					
2. 40	35. 0	5. 0	·1106					
3. 0	35. 30	5. 12	·1102					
3. 31	31. 55	5. 26	·1106					
3. 44	32. 0	5. 40	·1099					
4. 4	27. 30	5. 52	·1107					
	***	6. 15	·1100					
4. 51	24. 0	6. 29	·1083					
5. 3	24. 30	6. 55	·1098					
5. 22	22. 35	7. 23	·1094					
5. 39	24. 30	7. 46	·1093					
5. 45	21. 20	8. 6	·1101					
6. 11	20. 30	8. 12	·1096					
6. 24	26. 20	8. 30	·1126					
6. 39	22. 25	8. 55	·1085					
7. 13	28. 10	9. 15	·1132					
8. 10	26. 40	9. 25	·1124					
8. 28	13. 45	9. 40	·1093					
8. 45	19. 50	9. 45	·1097					
9. 21	4. 0	9. 55	·1084					
9. 32	8. 50	10. 9	·1094					
9. 42	8. 0	10. 26	·1084					
10. 15	20. 20	10. 49	·1091					
10. 43	16. 0	11. 0	·1088					
10. 51	16. 5	11. 15	·1106					
11. 0	15. 0	11. 40	·1082					
11. 14	15. 55	12. 10	·1113					
11. 56	23. 30	12. 36	·1107					
12. 0	21. 40		***					
12. 22	28. 0	13. 36	·1116					
12. 39	28. 40	13. 55	·1108					
12. 45	27. 0		***					
13. 39	24. 30	16. 30	·1124					
13. 45	26. 0		***					
13. 56	24. 50	19. 45	·1123					
14. 21	26. 0	21. 55	·1100					
14. 29	25. 30	22. 45	·1098					
14. 45	26. 50		(†)					
15. 27	25. 30							
15. 59	27. 20							
16. 13	26. 20							

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept.24								
h m	° ′ ″	h m		h m		h m	°	°
16. 21	21. 26. 45							
16. 41	25. 0							
16. 51	27. 30							
	***							
18. 41	24. 10							
	***							
20. 13	23. 40							
20. 18	22. 30							
20. 28	24. 30							
20. 45	24. 30							
21. 57	30. 50							
22. 29	32. 30							
22. 45	31. 30							
23. 10	33. 15							
23. 15	32. 20							
23. 29	33. 10							
23. 43	32. 20							
23. 59	32. 20							
Sept.25		Sept.25		Sept 25		Sept.25		
0. 0	21. 32. 20		(†)		(†)	1. 0	57 ·2	58 ·0
	***	1. 0	·1112*	1. 0	·01980*	3. 0	60 ·7	61 ·8
1. 0	33. 30	2. 0	·1108	1. 52	·01662	9. 0	63 ·0	64 ·0
	***		***	5. 33	·01659	22. 38	58 ·0	59 ·2
2. 39	31. 50	4. 0	·1107	5. 40	·01718			
3. 59	27. 50	4. 12	·1117	6. 10	{·01650			
4. 13	28. 30	4. 30	·1117		{·01683			
4. 43	27. 10	4. 45	·1106	11. 7	·01576			
4. 52	27. 50		***	13. 40	·01629			
5. 15	26. 30	5. 21	·1114	18. 15	·02087			
5. 50	27. 50	5. 35	·1106	21. 22	·02432			
6. 16	20. 20	5. 45	·1107	22. 13	·02453			
6. 40	23. 40	6. 7	·1087	23. 0	·02493			
6. 51	22. 15	6. 30	·1111	23. 59	·02460			
7. 11	26. 30	6. 40	·1101					
7. 27	25. 10	7. 5	·1108					
7. 56	26. 45		***					
9. 29	25. 25	8. 6	·1116					
9. 52	21. 10	9. 26	·1124					
10. 13	26. 30	9. 36	·1121					
10. 26	24. 20	9. 52	·1131					
10. 40	24. 50	10. 15	·1119					
11. 11	24. 0	10. 30	·1124					
11. 22	25. 0	10. 53	·1126					
12. 0	23. 55	11. 14	·1121					
13. 10	28. 30	11. 50	·1121					
13. 37	24. 5	12. 16	·1126					
14. 12	21. 15	12. 40	·1122					
	***	13. 15	·1135					
14. 52	24. 0		***					
	***	14. 30	·1129					
15. 40	23. 40		***					
15. 54	21 0	15. 53	·1138					
16. 13	21. 30	16. 36	·1126					
16. 58	26. 30	17. 55	·1130					
17. 21	25. 0	18. 7	·1122					
17. 51	26. 30		***					
18. 7	26. 20	18. 55	·1129					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept.25		Sept.25						
h m	° ′ ″	h m		h m		h m	°	°
18. 28	21. 23. 35	19. 45	·1127					
	***	20. 14	·1107					
18. 43	25. 0	20. 54	·1102					
	***	21. 24	·1114					
19. 35	22. 45	22. 1	·1100					
19. 44	24. 30	22. 15	·1084					
	***		***					
21. 6	22. 30	23. 20	·1105					
21. 22	26. 20	23. 59	·1102					
21. 56	29. 15							
22. 10	28. 40							
	***							
22. 39	31. 30							
	***							
23. 59	31. 40							
Sept.26		Sept.26		Sept.26		Sept.26		
0. 0	21. 31. 40	0. 0	·1102	0. 0	·02460	7. 0	64 ·0	65 ·0
0. 29	32. 20		***	1. 40	·02293	21. 0	62 ·5	64 ·0
0. 51	33. 40	1. 44	·1107	5. 6	{·01686			
1. 15	32. 30	1. 55	·1100		{·01737			
1. 39	33. 45	2. 55	·1097	10. 45	{·01640			
1. 58	31. 45	3. 30	·1110		{·01880			
2. 12	32. 20	3. 45	·1105	14. 51:	·01796			
2. 57	28. 40	4. 10	·1105	20. 52	·01856			
3. 27	29. 50	4. 55	·1118	23. 59	·01839			
3. 45	27. 20	5. 38	·1104					
4. 34	27. 25	5. 55.	·1113					
5. 57	23. 10	6. 25	·1120					
6. 0	22. 0	7. 25	·1121					
6. 15	21. 45	8. 44	·1115					
6. 31	23. 30	8. 54	·1136					
7. 30	26. 10	9. 13	·1124					
8. 0	25. 35	9. 30	·1137					
8. 51	23. 50	10. 39	·1114					
8. 58	20. 20	11. 0	·1108					
9. 7	21. 45	11. 30	·1112					
9. 29	17. 55	11. 55	·1109					
9. 45	21. 30	12. 15	·1116					
10. 23	19. 30	12. 55	·1111					
11. 13	20. 20	13. 10	·1116					
	***		***					
12. 58	27. 20	17. 14	·1111					
13. 28	24. 30	18. 40:	·1114					
	***	20. 54	·1095					
18. 0	24. 30		***					
20. 25	21. 30	23. 6	·1085					
21. 30	22. 50	23. 59	·1090					
23. 27	29. 50							
23. 59	30. 30							
Sept.27		Sept.27		Sept.27		Sept.27		
0. 0	21. 30. 30	0. 0	·1090	0. 0	·01839	1. 0	63 ·5	64 ·8
0. 30	30. 50	0. 40	·1091	2. 37	·01750	3. 0	64 ·2	66 ·0
0. 40	30. 0	1. 15	·1098	2. 45	·01843	9. 0	64 ·5	65 ·0
1. 11	31. 30	2. 25	·1096	4. 52	·01796	21. 0	61 ·2	63 ·0
1. 56	31. 30	3. 25	·1102	5. 12	·01849			
2. 33	33. 40	4. 29	·1101	12. 0:	·01886			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept.27		Sept.27		Sept.27				
h m	° ′ ″	h m		h m		h m	°	°
4. 11	21. 29. 30	6. 8	·1111	20. 27:	·02467			
5. 43	26. 20		***	23. 59	·02396			
9. 29	23. 35	8. 50	·1113					
9. 50	24. 30	10. 12	·1126					
10. 5	23. 45	10. 45	·1122					
11. 19	25. 30	12. 30	·1122					
12. 32	25. 10	14. 15	·1128					
12. 52	27. 5	18. 25	·1124					
13. 27	25. 50	20. 10	·1118					
13. 54	26. 20	21. 35	·1110					
15. 21	24. 0	23. 30	·1106					
16. 30	24. 30	23. 59	·1108					
19. 29	22. 0							
21. 8	20. 30							
22. 0	21. 20							
23. 49	29. 50							
23. 59	29. 55							
Sept.28		Sept.28		Sept.28		Sept.28		
0. 0	21. 29. 55	0. 0	·1108	0. 0	·02396	1. 0	61 ·8	63 ·3
0. 59	31. 10	0. 45	·1105	6. 30	·02087	3. 0	62 ·0	64 ·0
1. 21	32. 30		***	14. 5:	·01955	9. 0	62 ·1	64 ·0
1. 54	32. 30	2. 17	·1109	20. 16	·02040	21. 0	62 ·0	63 ·5
2. 5	33. 10	6. 0	·1128	23. 0	·01912			
2. 27	32. 10	6. 45	·1122	23. 59	·01895			
3. 13	32. 0	8. 7	·1127					
3. 37	30. 30	8. 40	·1122					
6. 30	25. 10	10. 2	·1126					
	***	10. 30	·1120					
8. 11	24. 30	11. 11	·1126					
9. 54	25. 0		***					
10. 2	23. 50	12. 55	·1124					
11. 37	22. 30	13. 50	·1130					
12. 2	24. 30	19. 50:	·1127					
12. 40	23. 30		***					
14. 28	25. 10	23. 0	·1093					
	***	23. 22	·1095					
18. 21	22. 30	23. 48	·1089					
19. 42	19. 20	23. 59	·1090					
20. 52	19. 20							
	***							
23. 7	26. 0							
23. 22	28. 20							
23. 45	28. 30							
23. 59	31. 0							
Sept.29		Sept.29		Sept.29		Sept.29		
0. 0	21. 31. 0	0. 0	·1091	0. 0	·01895	1. 0	65 ·0	65 ·8
0. 39	30. 40		***	1. 58	·01716	3. 0	67 ·3	68 ·2
1. 7	32. 35	3. 0	·1099		·01764	9. 0	68 ·0	69 ·0
2. 15	33. 45	3. 35	·1103	5. 7	·01760	21. 0	65 ·0	66 ·0
3. 25	32. 30	3. 50	·1096		01990			
3. 43	30. 30	4. 30	·1099	8. 10	·01872			
6. 7	26. 20	5. 5	·1095	12. 10	·01937			
7. 42	24. 0	6. 6	·1104	15. 55	·02096			
9. 5	25. 30		***	20. 55:	·02387			
9. 39	21. 30	7. 35	·1107	23. 59	·02308			
11. 10	21. 20	7. 53	·1112					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept.29		Sept.29						
h m	° ′ ″	h m		h m		h m	°	°
11. 54	21. 24. 0	8. 15	·1109					
12. 12	23. 30	8. 25	·1106					
13. 0	26. 0	8. 50	·1112					
13. 27	24. 20	9. 40	·1107					
15. 11	25. 25	9. 53	·1114					
15. 14	27. 45	10. 30	·1106					
15. 50	24. 20	11. 16	·1114					
15. 54	25. 0	11. 40	·1110					
16. 12	23. 30	12. 0	·1116					
16. 24	24. 20	12. 24	·1112					
16. 49	23. 0	13. 0	·1117					
18. 39	21. 15	14. 30	·1113					
18. 45	20. 0	15. 20	·1129					
19. 7	19. 30	19. 10	·1128					
19. 15	20. 0	20. 40	·1110					
19. 44	18. 30	21. 8	·1112					
20. 40	17. 10	21. 45	·1102					
21. 0	19. 50	23. 59	·1100					
21. 35	20. 5							
21. 53	22. 0							
22. 0	21. 45							
23. 53	33. 55							
23. 59	33. 45							
Sept.30		Sept.30		Sept.30		Sept.30		
0. 0	21. 33. 45	0. 0	·1100	0. 0	·02308	1. 0	67 ·0	67 ·3
1. 12	35. 45	0. 45	·1102	1. 43	·02157	3. 0	67 ·2	69 ·0
1. 40	38. 10	1. 13	·1092	3. 13	·01870	9. 0	64 ·0	66 ·0
1. 55	36. 20	1. 44	·1093		·02163	21. 0	53 ·0	55 ·2
2. 30	35. 30	2. 6	·1084	4. 49	·02190			
2. 37	37. 20	2. 32	·1079	4. 56	·02233			
2. 55	34. 40	3. 30	·1091	7. 43	·02346			
3. 40	33. 0	3. 40	·1103	9. 45	·02752			
3. 43	33. 50	4. 0	·1095		·02700			
4. 0	31. 50		***	14. 13	·02603			
4. 15	31. 45	6. 37	·1109	22. 54	·02517			
5. 40	28. 45	7. 8	·1097	23. 59	·02438			
6. 14	16. 30		***					
7. 0	26. 55	8. 45	·1092					
7. 52	27. 30	9. 54	·1101					
8. 27	25. 20	10. 14	·1100					
	***	10. 19	·1097					
9. 27	24. 30	11. 13	·1101					
9. 52	25. 35	11. 40	·1099					
10. 28	24. 30	12. 39	·1108					
11. 14	24. 55	13. 15	·1107					
11. 28	24. 15	13. 54	·1114					
12. 45	26. 15	15. 0:	·1110					
13. 14	26. 10		***					
13. 30	23. 20	19. 30:	·1125					
14. 12:	21. 0		***					
15. 11	23. 30	22. 45	·1098					
16. 14	24. 50	23. 30	·1104					
16. 21	24. 5	23. 44	·1097					
16. 37	24. 50	23. 59	·1101					
	***							
19. 17	21. 20							
19. 27	21. 50							

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 30								
h m	° ′ ″	h m		h m		h m	°	°
19. 59	21. 19. 40							
	***							
21. 22	24. 20							
21. 28	23. 25							
22. 30	26. 25							
22. 40	26. 20							
23. 28	31. 40							
23. 39	31. 0							
23. 50	33. 10							
23. 59	34. 15							
Oct. 1		Oct. 1		Oct. 1		Oct. 1		
0. 0	21. 34. 15	0. 0	·1101	0. 0	·02438	1. 0	60 ·0	62 ·5
0. 10	35. 0	0. 10	·1099	1. 22	·02160	3. 0	62 ·0	63 ·0
0. 40	35. 0	0. 31	·1091	3. 10	·01638	9. 0	62 ·0	63 ·0
0. 52	37. 20	0. 50	·1098	4. 43	·01673	21. 0	58 ·0	59 ·0
1. 9	36. 30	1. 5	·1092	8. 26	·01577			
2. 10	37. 10	2. 10	·1095	10. 26	·01606			
3. 2	33. 50	2. 30	·1093	12. 40	·01765			
3. 20	34. 20	3. 17	·1096	16. 57	·02258			
3. 51	32. 30	3. 30	·1092	19. 37	·02456			
4. 2	32. 55		***	21. 10	·02500			
4. 26	30. 30	4. 40	·1098		·02412			
4. 44	30. 10	5. 5	·1093	22. 37	·02366			
5. 21	26. 30	5. 23	·1098	23. 59	·02169			
5. 33	26. 55	5. 35	·1096					
6. 35	24. 30	6. 52	·1102					
	***	7. 37	·1092					
7. 56	16. 30	8. 0	·1109					
8. 21	20. 0	8. 30	·1104					
8. 29	19. 45		***					
9. 22	23. 55	9. 50	·1121					
9. 45	23. 50		***					
9. 52	22. 10	10. 41	·1122					
10. 0	22. 20	11. 30	·1117					
10. 31	18. 30	12. 25	·1129					
10. 57	21. 30	13. 9	·1128					
11. 20	22. 30	13. 50	·1121					
11. 40	21. 45	14. 15	·1127					
12. 26	25. 0	15. 0	·1124					
12. 43	22. 30	16. 36	·1135					
13. 39	21. 30	17. 55	·1129					
13. 48	27. 30	18. 15	·1136					
14. 19	26. 30		***					
14. 37	26. 50	20. 0:	·1138					
14. 50	25. 30	20. 52	·1125					
15. 40	28. 20	21. 30:	·1124					
16. 44	26. 20	22. 25	·1102					
16. 59	26. 30		***					
17. 29	28. 55	23. 30	·1101					
17. 40	28. 55	23. 59	·1095					
18. 0	31. 25							
18. 52	25. 30							
	***							
20. 22	21. 20							
20. 37	22. 30							
20. 52	21. 50							
22. 20	27. 30							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 1								
h m	° ′ ″	h m		h m		h m	°	°
22. 36	21. 30. 0							
23. 6	30. 0							
23. 14	31. 40							
23. 59	32. 30							
Oct. 2		Oct. 2		Oct. 2		Oct. 2		
0. 0	21. 32. 30	0. 0	·1095	0. 0	·02169	1. 0	62 ·0	62 ·8
0. 44	35. 50	1. 45	·1093	1. 7	·02036	3. 0	64 ·5	66 ·0
1. 28	34. 30	2. 30	·1113	2. 40	·01686	9. 0	64 ·0	65 ·5
1. 39	35. 55	2. 50	·1103		·01756	22. 30	59 ·0	60 ·0
1. 59	35. 30	3. 6	·1109	3. 30	·01782			
2. 22	36. 40	3. 14	·1097		·01950			
2. 45	33. 30	3. 24	·1102	6. 21:	·01737			
2. 52	34. 20	3. 45	·1122	11. 12	·01926			
3. 1	30. 0		***	12. 40	·02048			
3. 28	24. 45	4. 22	·1107	14. 28	·02356			
4. 4	29. 0	6. 10	·1110	15. 11	·02370			
5. 35	26. 30	6. 14	·1120	15. 52	·02516			
5. 43	27. 0		***	16. 52	·02616			
6. 5	25. 30	7. 8	·1111	21. 27	·02670			
6. 26	26. 40	7. 35	·1120	23. 59	·02509			
8. 40	23. 30	8. 0	·1109					
9. 0	21. 30	8. 15	·1117					
9. 36	17. 30	8. 25	·1111					
10. 1	19. 20	8. 36	·1110					
10. 12	21. 20	8. 59	·1117					
10. 21	18. 30	9. 25	·1113					
10. 28	19. 30	9. 44	·1117					
10. 43	12. 30	10. 0	·1113					
11. 9	20. 20	10. 13	·1100					
11. 26	17. 10	10. 30	·1100					
11. 40	22. 30	10. 45	·1126					
11. 48	22. 30	11. 2	·1128					
12. 3	24. 10	11. 15	·1118					
12. 40	19. 20	11. 30	·1118					
13. 1	18. 5	11. 42	·1131					
13. 15	18. 40	12. 7	·1124					
13. 27	17. 55	12. 37	·1131					
14. 30	33. 30		***					
15. 10	17. 50	13. 39	·1128					
15. 44	26. 10	14. 0	·1133					
16. 28	24. 50		***					
16. 52	29. 0	14. 40	·1127					
	***	15. 27	·1143					
17. 44	28. 25	16. 9	·1140					
17. 59	29. 30	16. 30	·1129					
18. 43	26. 40	17. 0	·1126					
19. 12	28. 50	17. 23	·1130					
19. 51	26. 55	17. 30	·1123					
20. 13	29. 20		***					
21. 0	35. 40	19. 0	·1134					
21. 50	31. 35	19. 43	·1125					
	***	19. 55	·1113					
22. 15	31. 30	20. 0	·1114					
22. 27	33. 55	20. 15	·1100					
	***	20. 50	·1100					
23. 45	34. 30	21. 6	·1106					
23. 59	33. 50	21. 24	·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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Readings of Thermometers. Of V.F. Magnet.
h m	° ′ ″	Oct. 2 h m		h m		h m	°	°
		22. 36	·1074 ***					
		23. 45	·1090					
		23. 59	·1087					
Oct. 3		Oct. 3		Oct. 3		Oct. 3		
0. 0	21. 33. 50	0. 3	·1086	0. 0	·02509	6. 45	65 ·0	65 ·5
0. 22	32. 35	0. 39	·1098	4. 58	·01684	21. 0	61 ·3	62 ·0
0. 40	34. 45	1. 0	·1088		·01788			
1. 10	32. 35	1. 48	·1104	6. 55	·01710			
	***	2. 0	·1096		·01773			
2. 12	34. 10	2. 28	·1091	11. 15:	·01736			
2. 40	31. 5	3. 42	·1110	21. 45	·02222			
2. 56	31. 20		***	23. 0	·02211			
3. 32	29. 0	4. 53	·1098		(†)			
3. 47	29. 30	5. 15	·1117					
4. 44	27. 10	5. 48	·1096					
5. 15	13. 20	6. 3	·1106					
5. 45	22. 55		***					
7. 24	26. 30	8. 55	·1120					
10. 50	25. 20	10. 45	·1123					
11. 40	26. 0		***					
11. 50	29. 10	13. 30	·1131					
12. 15	26. 40	14. 37	·1128					
12. 58	26. 45	15. 5	·1134					
13. 30	25. 20	15. 45	·1126					
13. 40	26. 30	17. 30	·1123					
13. 52	26. 20	19. 39	·1126					
14. 9	27. 20	21. 8	·1112					
15. 6	23. 30	23. 0	·1096					
16. 39	24. 30	23. 59	·1102					
16. 58	25. 50							
18. 59	21. 25							
	***							
19. 29	22. 50							
19. 56	21. 45							
21. 28	22. 0							
	***							
23. 59	33. 20							
Oct. 4		Oct. 4		Oct. 4		Oct. 4		
0. 0	21. 33. 20	0. 0	·1101		(†)	1. 0	64 ·0	64 ·0
0. 22	33. 40		***	1. 0	·02023*	3. 0	65 ·0	65 ·0
0. 29	33. 30	1. 0	·1104	1. 15	·02010	9. 0	64 ·0	64 ·7
0. 35	34. 45	1. 27	·1091	2. 40	·01826	21. 0	56 ·0	58 ·0
0. 45	33. 40	1. 50	·1103		·02000			
0. 50	34. 30	4. 20	·1107	3. 40	·01884			
1. 22	32. 50	5. 11	·1119	4. 39	·01882			
1. 45	34. 50	5. 45	·1106		·02042			
	***	6. 20	·1130	6. 21	·02076			
2. 11	32. 30	6. 55	·1120	7. 51	·02079			
2. 22	33. 10		***	9. 21	·02140			
5. 13	26. 30	11. 36	·1141	11. 52	·02170			
6. 10	12. 30	12. 15	·1132	14. 12	·02300			
6. 43	24. 30	12. 52	·1140	16. 43	·02604			
6. 52	24. 20	13. 15	·1136	19. 12	·02622			
7. 10	26. 30	13. 27	·1141		·02178			

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 4 h m	° ′ ″	Oct. 4 h m		Oct. 4 h m		h m	°	°
9. 43	21. 26. 30	13. 59	·1127	20. 52	·02444			
10. 13	25. 30	14. 30	·1129		·02368			
10. 35	25. 40	15. 15	·1142	21. 40	·02457			
10. 44	27. 45	16. 37	·1132		·02366			
10. 58	25. 50	17. 0	·1150	22. 15	·02396			
11. 15	26. 20		***		·02356			
11. 51	23. 20	18. 14	·1135	23. 5	·02376			
12. 28	25. 30	18. 32	·1132	23. 59	·02387			
12. 32	25. 0	19. 10	·1129					
13. 45	29. 35	19. 42	·1134					
13. 57	28. 30	21. 16	·1118					
14. 21	28. 0	22. 52	·1107					
14. 45	30. 20	23. 59	·1104					
15. 29	26. 5							
16. 10	25. 35							
16. 40	32. 30							
16. 53	30. 30							
17. 1	30. 20							
17. 37	27. 30							
18. 15	24. 50							
18. 33	25. 30							
18. 50	25. 0							
18. 55	23. 10							
19. 0	24. 50							
19. 10	21. 30							
19. 13	23. 35							
	***							
20. 0	21. 0							
20. 30	21. 10							
22. 13	24. 30							
23. 59	32. 30							
Oct. 5		Oct. 5		Oct. 5		Oct. 5		
0. 0	21. 32. 30	0. 0	·1104	0. 0	·02387	1. 0	60 ·0	60 ·0
0. 38	34. 20	1. 30	·1113	2. 10	·02130	3. 0	61 ·0	62 ·0
0. 43	36. 0		***	6. 40:	·01626	9. 0	58 ·0	60 ·0
0. 51	35. 20	2. 6	·1125	13. 40	·02507	21. 0	51 ·0	53 ·0
2. 14	37. 30	2. 30	·1112	14. 28	·02550			
2. 32	34. 5	3. 33	·1113		·02466			
3. 13	33. 0	6. 6	·1128	22. 22	·02517			
3. 21	33. 55	9. 7	·1133		·02277			
3. 36	31. 50	13. 36	·1140	23. 59	·02172			
4. 43	28. 0	13. 44	·1147					
7. 45	24. 50	13. 55	·1142					
8. 40	26. 10	15. 55	·1147					
9. 54	25. 30	16. 30	·1158					
11. 53	26. 30	17. 10	·1147					
13. 30	26. 30	17. 50	·1155					
13. 37	27. 40		***					
13. 59	26. 20	19. 22	·1148					
14. 42	25. 30	20. 5	·1122					
15. 39	27. 10	20. 15	·1122					
15. 58	30. 50	20. 30	·1126					
16. 52	23. 55	20. 55	·1128					
17. 42	27. 50	22. 30	·1102					
	***		***					
19. 7	25. 30	23. 8	·1106					
19. 59	21. 0	23. 59	·1090					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 5								
h m	° ′ ″	h m		h m		h m	°	°
20. 15	21. 21. 0							
20. 29	23. 45							
20. 39	23. 5							
21. 14	25. 20							
21. 39	23. 40							
22. 12	26. 30							
22. 37	27. 0							
23. 2	33. 30							
23. 25	33. 50							
23. 38	35. 40							
23. 52	37. 20							
Oct. 6		Oct. 6		Oct. 6		Oct. 6		
0. 4	21. 35. 30	0. 0	·1090	0. 0	·02172	1. 0	55 ·5	56 ·0
0. 39	39. 45	0. 35	·1117	0. 36	·02126	3. 0	59 ·0	59 ·0
1. 0	37. 35	1. 11	·1115	2. 31	·01700	9. 0	59 ·5	60 ·3
1. 11	39. 0	1. 40	·1108		***	21. 0	56 ·0	58 ·0
1. 43	38. 50	1. 55	·1114	5. 15	{·01687			
1. 50	40. 0	2. 0	·1108		{·01882			
2. 8	39. 35	2. 25	·1110	8. 43:	·01636			
2. 30	43. 30	2. 51	·1094	13. 25	·01827			
2. 51	39. 30	2. 58	·1098	14. 55	·01856			
3. 30	33. 10	3. 45	·1088	19. 43:	·02110			
3. 46	33. 30	4. 1	·1102	23. 59	·01948			
3. 55	31. 55	4. 15	·1096					
4. 10	32. 30	4. 30	·1106					
4. 27	29. 20	4. 44	·1101					
4. 40	30. 50	4. 17	·1113					
5. 15	26. 50	5. 46	·1100					
5. 40	30. 0	6. 15	·1112					
6. 15	25. 0	8. 5	·1121					
6. 44	25. 30	8. 27	·1120					
7. 42	23. 0		***					
8. 51	25. 0	13. 0	·1133					
9. 50	22. 30	13. 40	·1145					
10. 13	23. 45	14. 16	·1135					
11. 40	23. 30	14. 32	·1150					
11. 52	26. 30	14. 45	·1149					
12. 40	26. 45	15. 0	·1137					
13. 4	24. 0	15. 40	·1132					
13. 57	24. 45	16. 40:	·1141					
14. 21	33. 20	18. 8	·1138					
14. 50	26. 20	19. 30	·1123					
	***	20. 0	·1131					
17. 48	23. 30		***					
18. 13	24. 55	20. 45	·1124					
18. 39	23. 10	21. 15	·1124					
19. 25	25. 30	22. 41	·1108					
19. 59	24. 40	23. 59	·1104					
20. 4	26. 10							
20. 16	24. 30							
20. 23	25. 30							
20. 38	23. 0							
20. 42	23. 35							
21. 51	25. 30							
	***							
23. 59	34. 30							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 7		Oct. 7		Oct. 7		Oct. 7		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 34. 35	0. 0	·1104	0. 0	·01948	1. 0	59 ·0	60 ·0
0. 43	37. 50	0. 30	·1102	2. 10	{·01725	3. 0	61 ·0	63 ·0
2. 40	35. 50	0. 45	·1107		{·01810	9. 0	61 ·8	63 ·5
2. 48	36. 50	0. 58	·1101	2. 48	{·01796	21. 0	54 ·0	56 ·0
3. 29	33. 30	1. 39	·1101		{·01940			
3. 40	34. 20	1. 51	·1096	3. 45	·01825			
4. 5	31. 50	2. 20	·1105	7. 25	·01752			
4. 21	32. 0	2. 50	·1120	7. 56	·01710			
5. 30	26. 20	3. 25	·1103	9. 52	·01732			
5. 52	27. 10		***	13. 39:	·02016			
6. 15	25. 10	3. 54	·1104	17. 30	·02680			
6. 43	13. 20	4. 17	·1117	18. 10	{·02688			
6. 52	23. 0	4. 36	·1110		{·02438			
7. 12	16. 20	4. 52	·1110	20. 2	·02507			
7. 27	21. 10	5. 30	·1122	21. 36	{·02570			
7. 40	22. 30		***		{·02500			
7. 48	25. 5	6. 23	·1108	23. 59	·02550			
7. 56	24. 0	6. 39	·1118					
8. 5	24. 45	6. 45	·1138					
8. 28	23. 30	7. 0	·1127					
9. 40	24. 30	7. 13	·1140					
10. 11	23. 15	7. 46	·1117					
11. 13	25. 10	8. 15	·1115					
12. 0	23. 0	9. 45	·1124					
13. 7	25. 30	10. 30	·1120					
13. 28	27. 30	10. 54	·1122					
14. 30	26. 5	11. 12	·1130					
15. 39	28. 30	12. 55	·1123					
17. 38	27. 30	15. 45:	·1125					
19. 15	24. 20	18. 14	·1136					
19. 45	26. 30	19. 0	·1133					
20. 40	25. 30	20. 5	·1120					
21. 54	27. 45	20. 30	·1119					
22. 30	30. 30	21. 8	·1108					
23. 59	33. 20	23. 0	·1102					
		23. 59	·1106					
Oct. 8		Oct. 8		Oct. 8		Oct. 8		
0. 0	21. 33. 20	0. 0	·1106	0. 0	·02550	1. 0	56 ·0	57 ·0
	***	1. 23	·1116	1. 40	·02486	3. 0	58 ·0	59 ·5
1. 0	32. 45	1. 38	·1112	4. 50	·01925	9. 0	58 ·0	59 ·0
1. 26	33. 50		***	9. 52	·01833	21. 0	49 ·0	51 ·0
1. 45	33. 20	3. 35	·1124	12. 22	·02083			
2. 27	33. 20		***	15. 12	·02516			
2. 54	31. 0	4. 5	·1110	18. 40	·02507			
3. 11	31. 20		***	22. 12	{·02637			
3. 30	30. 40	4. 55	·1101		{·02607			
3. 45	28. 50		***	22. 51	·02613			
4. 10	31. 30	6. 20	·1115	23. 59	·02587			
5. 11	25. 30	6. 36	·1108					
5. 22	26. 0	6. 53	·1115					
5. 30	25. 0	7. 13	·1101					
5. 58	28. 20	7. 30	·1130					
6. 12	26. 35	7. 50	·1103					
6. 28	28. 30	8. 4	·1114					
6. 42	27. 35	8. 30	·1106					
6. 55	30. 30	8. 45	·1129					
7. 22	19. 20	9. 35	·1129					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 8		Oct. 8						
h m	° ′ ″	h m		h m		h m	°	°
7. 30	21. 28. 30	9. 40	·1134					
7. 43	29. 30	9. 55	·1127					
7. 54	25. 35		***					
8. 10	27. 55	10. 19	·1127					
8. 39	17. 10	10. 35	·1120					
9. 5	21. 45	10. 55	·1127					
9. 25	24. 50	11. 17	·1122					
9. 52	21 30	11. 45	·1144					
10. 45	23. 45	12. 6	·1119					
11. 25	20. 30	12. 29	·1122					
11. 40	20. 35	12. 55	·1129					
11. 44	22. 5	13. 15	·1129					
12. 45	18. 30		***					
13. 0	14. 30	14. 36	·1141					
13. 15	16. 20	14. 47	·1135					
13. 30	14. 10	15. 0	·1140					
14. 25	18. 50	15. 42	·1136					
14. 56	17. 50	16. 30	·1147					
15. 7	19. 10	16. 55	·1144					
15. 35	18. 25	18. 6	·1153					
16. 28	24. 0	18. 40	·1145					
16. 37	22. 30	19. 0	·1147					
17. 24	30. 0	19. 53	·1136					
17. 42	29. 30	21. 45	·1125					
17. 51	30. 20		***					
18. 25	26. 10	23. 59	·1120					
19. 11	26. 15							
19. 45	25. 10							
19. 57	23. 30							
20. 50	31. 0							
21. 44	31. 50							
22. 11	33. 30							
22. 40	33. 20							
23. 59	37. 20							
Oct. 9		Oct. 9		Oct. 9		Oct. 9		
0. 0	21. 37. 20	0. 0	·1120	0. 0	·02587	1. 0	54 ·5	54 ·0
0. 13	37. 0	0. 26	·1122	1. 0	·02467	3. 0	57 ·0	57 ·0
0. 29	38. 45	0. 55	·1115	3. 0	·02037	9. 0	59 ·2	59 ·3
0. 49	37. 20	1. 25	·1119		·02250	22. 15	55 ·1	56 ·5
1. 38	36. 50	2. 14	·1108	4. 10	·01970			
1. 52	37. 20	3. 20	·1122	5. 7	·01916			
2. 45	33. 45	4. 10	·1109	5. 51	·01918			
2. 52	34. 50	4. 50	·1104	8. 10	·01807			
3. 10	34. 20	5. 25	·1106	12. 40	·01727			
3. 22	36. 0	5. 44	·1117	15. 30	·01850			
4. 29	31. 45	6. 15	·1108	22. 12	·02295			
4. 52	26. 0	6. 30	·1118	23. 59	·02322			
5. 3	25. 30	6. 49	·1112					
5. 30	18. 0	7. 15	·1116					
5. 51	23. 35	7. 20	·1124					
5. 56	23. 25	7. 45	·1118					
6. 10	25. 20	8. 30	·1116					
6. 25	24. 5	9. 0	·1118					
6. 45	27. 25	9. 10	·1128					
7. 15	24. 10	9. 30	·1118					
7. 30	26. 0		***					
8. 0	21. 50	11. 16	·1131					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 9		Oct. 9						
h m	° ′ ″	h m		h m		h m	°	°
8. 39	21. 22. 30	11. 25	·1137					
9. 4	21. 40	11. 45	·1129					
9. 22	23. 50	11. 58	·1137					
9. 27	22. 10	12. 15	·1127					
	***	12. 51	·1141					
10. 13	22. 30	13. 25	·1131					
10. 41	24. 10	14. 0	·1128					
10. 52	21. 45		***					
11. 8	22. 30	15. 0	·1137					
11. 21	17. 10		***					
11. 26	18. 0	15. 45	·1127					
11. 39	15. 20	16. 10	·1130					
11. 51	24. 50	16. 27	·1128					
13. 14	12. 50	17. 6	·1140					
14. 15	26. 0	18. 15	·1115					
14. 40	27. 5		***					
15. 10	21. 10	19. 35	·1125					
15. 35	24. 20	21. 6	·1106					
15. 44	24. 0	22. 55	·1102					
15. 53	25. 0	23. 20	·1100					
16. 30	29. 10	23. 40	·1107					
16. 51	27. 55	23. 59	·1105					
17. 15	26. 30							
17. 40	27. 30							
17. 54	27. 10							
18. 10	39. 10							
18. 32	28. 20							
	***							
19. 44	22. 0							
20. 44	20. 25							
20. 53	21. 20							
21. 7	21. 10							
21. 54	24. 30							
22. 11	27. 30							
22. 29	27. 50							
22. 43	29. 55							
23. 21	30. 30							
23. 52	33. 40							
23. 59	33. 0							
Oct. 10		Oct. 10		Oct. 10		Oct. 10		
0. 0	21. 33. 0	0. 0	·1105	0. 0	·02322	7. 0	57 ·0	57 ·5
0. 43	33. 30	0. 55	·1108	1. 0	·02307	21. 0	55 ·0	56 ·0
1. 39	32. 10	3. 10	·1127	4. 12	·02145			
1. 51	32. 40		***	8. 0	·02036			
3. 30	30. 30	7. 4	·1129	11. 11	·01890			
4. 52	27. 40	7. 25	·1132	16. 52	·01876			
5. 50	26. 40	8. 15	·1127	23. 59	·02250			
6. 44	27. 0	9. 3	·1133					
7. 43	25. 55	9. 15	·1129					
8. 27	26. 30	9. 40	·1130					
8. 55	24. 10	9. 57	·1125					
9. 11	26. 50	10. 29	·1131					
9. 29	24. 0	10. 38	·1125					
9. 43	24. 0		***					
10. 11	18. 0	11. 25	·1125					
10. 30	21. 0	12. 44	·1128					
10. 44	20. 55	13. 35	·1135					

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

Greenwich Mean Solar Time.	Western Declination	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	
11. 0	21. 20. 0	14. 7	·1129					
12. 10	24. 30	14. 53	·1135					
12. 42	23. 20	15. 30	·1130					
13. 7	26. 10	16. 30	·1141					
13. 39	24. 35	17. 41	·1141					
14. 11	26. 10	20. 20	·1126					
14. 28	27. 50	21. 25	·1104					
14. 40	27. 50		***					
15. 15	29. 40	23. 59	·1111					
15. 40	28. 20							
15. 51	28. 50							
16. 52	24. 50							
19. 27	23. 0							
20. 10	21. 30							
21. 10	23. 40							
21. 27	23. 30							
21. 43	24. 30							
22. 39	31. 30							
23. 21	33. 40							
23. 45	36. 10							
23. 59	35. 55							
Oct. 11		Oct. 11		Oct. 11		Oct. 11		
0. 0	21. 35. 55	0. 0	·1111	0. 0	·02250	1. 0	56 ·5	57 ·0
0. 22	35. 30	0. 25	·1110	1. 30	·02191	3. 0	58 ·0	59 ·0
0. 45	33. 45	0. 47	·1104	4. 21	·01784	9. 0	57 ·3	58 ·8
1. 11	36. 0	1. 30	·1110	7. 42	·01733	21. 0	48 ·0	51 ·0
1. 54	33. 40	2. 0:	·1108	11. 22:	·01954			
2. 39	33. 50	2. 40	·1112	16. 12	·02736			
3. 32	30. 45	3. 45	·1110	21. 11	·02650			
5. 41	26. 30	5. 41	·1117		·02115			
15. 52	27. 10	6. 15	·1125	23. 0	·02186			
18. 26	26. 15	11. 15	·1134	23. 59	·02153			
20. 15	22. 30	15. 0	·1134					
22. 19	30. 30	17. 45:	·1142					
23. 59	33. 45	21. 45	·1120					
		23. 59	·1115					
Oct. 12		Oct. 12		Oct. 12		Oct. 12		
0. 0	21. 33. 45	0. 0	·1115	0. 0	·02153	1. 0	52 ·0	53 ·0
0. 29	35. 30	0. 51	·1122	2. 27	·01744	3. 0	57 ·0	57 ·0
3. 22	30. 50	1. 55	·1116	3. 11	·01730	9. 0	58 ·8	58 ·8
4. 27	28. 0	4. 0	·1121		·01812	21. 0	57 ·0	58 ·0
4. 31	30. 20	5. 5	·1126	6. 25	·01691			
4. 42	28. 20	6. 30	·1116	10. 40	·01653			
5. 22	27. 30	6. 48	·1125	18. 9:	·01754			
6. 4	27. 40		***	21. 43	·01650			
6. 44	24. 0	8. 8	·1126		·01713			
6. 53	24. 0	8. 25	·1131	22. 50	·01686			
7. 15	19. 30	8. 58	·1122		·02136			
7. 45	26. 10		***	23. 59	·02012			
8. 15	26. 35	12. 0	·1127					
8. 50	20. 0	12. 15	·1121					
9. 22	24. 30	13. 0	·1131					
11. 51	24. 30	13. 30	·1126					
12. 12	25. 55	17. 53:	·1137					
12. 26	23. 30	21. 0:	·1120					
12. 52	23. 45		***					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V.F. Magnet.
Oct. 12		Oct. 12						
h m	° ′ ″	h m		h m		h m	°	
13. 4	21. 22. 25	22. 55	·1117					
14. 18	26. 30	23. 30	·1108					
17. 21	25. 50	23. 59	·1112					
20. 15	22. 10							
20. 58	22. 35							
22. 57	30. 45							
23. 46	32. 30							
23. 59	34. 0							
Oct. 13		Oct. 13		Oct. 13		Oct. 13		
0. 0	21. 34. 5	0. 0	·1113	0. 0	·02012	1. 0	60 ·0	61 ·0
1. 36	36. 35	0. 40	·1104	1. 13	·01987	3. 0	62 ·5	63 ·0
2. 2	35. 55	1. 0	·1105	2. 51	·01930	9. 0	64 ·5	65 ·0
2. 14	36. 30	2. 21	·1119		·02063	21. 0	61 ·0	62 ·5
3. 7	33. 15	3. 10	·1113	5. 1	·01950			
3. 16	33. 45	3. 39	·1096		·02292			
3. 55	28. 20	4. 10	·1109	7. 0	·02117			
4. 22	28. 20	4. 44	·1107	7. 16	·02157			
4. 45	27. 0	5. 20	·1117	9. 43	·02066			
6. 13	27. 20	5. 38	·1116	12. 11	·02060			
6. 54	24. 30	6. 8	·1120	13. 52	·02137			
7. 26	25. 30	6. 40	·1116	20. 7	·02600			
8. 42	24. 20	7. 35	·1125	21. 7	·02616			
10. 10	25. 30	8. 0	·1116		·02568			
10. 41	17. 45	8. 30	·1121	22. 12	·02544			
10. 57	20. 30	8. 49	·1118		·02197			
11. 14	18. 30	9. 0	·1122	23. 59	·02066			
11. 39	24. 10	9. 20	·1117					
12. 45	21. 50	9. 45	·1120					
13. 38	19. 30	10. 18	·1117					
13. 52	20. 30	10. 42	·1138					
14. 40	21. 20	11. 6	·1123					
15. 14	24. 30	11. 25	·1131					
15. 55	22. 45	12. 15	·1118					
	***	12. 55	·1122					
17. 29	21. 30	13. 45	·1114					
18. 15	24. 30	14. 32	·1117					
20. 20	21. 50	15. 10	·1112					
21. 0	22. 25	16. 20:	·1123					
23. 40	31. 30	17. 42	·1125					
23. 59	32. 0	18. 15	·1117					
		19. 10	·1121					
		22. 0	·1106					
		23. 25	·1096					
		23. 59	·1098					
Oct. 14		Oct. 14		Oct. 14		Oct. 14		
0. 0	21. 32. 0	0. 0	·1098	0. 0	·02066	1. 0	63 ·0	64 ·0
0. 35	31. 45	0. 40	·1103	2. 11	·01863	3. 0	65 ·0	65 ·0
2. 30	29. 55	1. 8	·1098	3. 12	·01837	9. 0	65 ·0	65 ·0
3. 13	27. 50		***		·01986	21. 0	61 ·0	62 ·0
4. 21	26. 45	2. 30	·1105	5. 13	·01836			
7. 26	26. 30	4. 8	·1106	10. 7:	·01833			
10. 22	25. 20	9. 30	·1116	21. 15:	·02333			
14. 11	26. 0	13. 10	·1117	23. 59	·02306			
18. 25	24. 20	18. 30:	·1124					
20. 45:	20. 45	22. 2	·1098					
22. 12	25. 35	22. 20	·1100					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
22. 28	21. 25. 35	22. 55	·1097					
23. 59	32. 30	23. 15	·1092					
		23. 59	·1098					
Oct. 15		Oct. 15		Oct. 15		Oct. 15		
0. 0	21. 32. 30	0. 0	·1098	0. 0	·02306	1. 0	63 ·0	64 ·0
0. 14	32. 30	0. 44	·1101	4. 5	·01826	3. 0	65 ·0	66 ·0
0. 44	34. 0	1. 0	·1098		·01886	9. 0	65 ·0	66 ·0
0. 59	32. 45	2. 45	·1107	7. 24	·01807	21. 0	57 ·0	59 ·0
2. 28	31. 30	3. 20	·1101	10. 21:	·01873			
2. 41	31. 45	7. 15	·1117	16. 40	·02686			
3. 21	29. 10		***	21. 44	·02650			
6. 13	26. 20	12. 15	·1124		·02393			
7. 22	26. 30	12. 25	·1120	23. 59	·02397			
8. 29	25. 45	14. 6	·1121					
9. 22	26. 20	15. 45	·1129					
12. 50	26. 30	18. 10	·1130					
13. 52	25. 30	21. 20	·1116					
14. 56	25. 30	22. 20	·1114					
15. 22	26. 40	23. 59	·1099					
16. 14	25. 0							
18. 28	25. 30							
20. 45:	21. 35							
21. 32	23. 20							
23. 15	30. 45							
23. 45	32. 55							
23. 59	32. 45							
Oct. 16		Oct. 16		Oct. 16		Oct. 16		
0. 0	21. 32. 45	0. 0	·1099	0. 0	·02397	1. 0	60 ·0	61 ·5
0. 10	32. 30		***	1. 12	·02277	3. 0	64 ·0	65 ·0
0. 30	33. 30	4. 10	·1100	2. 43	·01924	9. 0	66 ·8	66 ·5
0. 51	32. 30	4. 30	·1096	4. 40	·01837	22. 0	61 ·0	62 ·0
2. 30	30. 50	6. 14	·1098	9. 16	·01756			
3. 52	28. 20		***		·01963			
4. 14	28. 30	10. 7	·1111	12. 37	·02033			
4. 39	27. 30	10. 12	·1120	15. 11	·02196			
5. 30	27. 30	10. 18	·1112	21. 28:	·02717			
5. 59	24. 50	10. 26	·1119	23. 59	·02686			
6. 20	26. 0	10. 31	·1108					
7. 5	26. 10	10. 55	·1105					
7. 28	23. 20	11. 10	·1110					
8. 21	26. 0	11. 45	·1106					
10. 25	26. 40	11. 55	·1119					
11. 6	25. 30	12. 10	·1121					
11. 58	24. 40		***					
12. 45	18. 30	13. 36	·1099					
13. 13	20. 30	13. 51	·1105					
13. 29	18. 30		***					
13. 56	20. 55	15. 38	·1106					
14. 27	21. 10	16. 30	·1114					
15. 6	25. 10		***					
15. 29	23. 55	17. 48	·1118					
15. 44	25. 0	18. 15	·1109					
16. 0	24. 30	19. 0:	·1112					
16. 31	26. 0	20. 40	·1091					
17. 21	25. 50	23. 59	·1099					
17. 31	24. 20							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 16								
h m	° ′ ″	h m		h m		h m	°	°
18. 10	21. 24. 55							
18. 13	26. 0							
18. 30	25. 0							
18. 39	25. 0							
20. 3	20. 40							
21. 0	20. 40							
23. 59	32. 15							
Oct. 17		Oct. 17		Oct. 17		Oct. 17		
0. 0	21. 32. 15	0. 0	·1099	0. 0	·02686	8. 47	61 ·0	62 ·2
0. 13	32. 5		***	2. 12:	·02637	21. 0	55 ·0	57 ·0
0. 40	33. 15	3. 43	·1108	6. 15	·02396			
2. 1	31. 50		***	7. 57	·02355			
2. 15	31. 40	5. 40	·1106	8. 21	·02396			
3. 28	29. 15	5. 55	·1117	8. 44	·02347			
4. 52	27. 30	6. 15	·1110	9. 45	·02386			
7. 27	26. 15	7. 0	·1110	11. 14	·02542			
7. 40	21. 27. 50	7. 7	·1100	11. 50	·02507			
7. 58	20. 57. 35	7. 10	·1124	12. 40	·02638			
8. 16	21. 4. 45	7. 34	·1111	13. 0	·02625			
8. 40	20. 57. 40		***	17. 13	·02687			
8. 47	21. 0. 55	8. 10	·1145		·02618			
8. 51	0. 5	9. 0	·1094	21. 14	·02620			
9. 40	8. 35	9. 17	·1097		·02366			
9. 52	11. 10	9. 45	·1082	23. 59	·02466			
	(†)	10. 15	·1091					
11. 41	15. 10		***					
12. 0	5. 45	11. 12	·1090					
12. 30	13. 40	11. 30	·1112					
12. 45	15. 55	11. 45	·1103					
12. 53	11. 50	11. 55	·1117					
13. 2	12. 0		***					
13. 20	16. 55	12. 30	·1113					
13. 59	21. 0	13. 0	·1100					
14. 21	21. 20	13. 22	·1101					
14. 42	23. 25	13. 45	·1108					
15. 22	24. 45	14. 20	·1104					
15. 42	24. 10	16. 30	·1118					
16. 44	25. 30		***					
17. 15	24. 10	19. 10	·1127					
19. 4	23. 20		***					
20. 29	21. 10	23. 59	·1130					
20. 37	21. 45							
21. 30	21. 20							
23. 42	30. 20							
23. 59	32. 10							
Oct. 18		Oct. 18		Oct. 18		Oct. 18		
0. 0	21. 32. 10	0. 0	·1130	0. 0	·02466	1. 0	56 ·0	57 ·0
0. 55	32. 30	1. 0	·1132	2. 45	·02463	3. 0	57 ·0	58 ·0
3. 10	26. 30	2. 5	·1103	7. 42:	·02210	9. 0	56 ·7	58 ·0
3. 27	26. 40	2. 40	·1111	11. 0	·02222	21. 0	56 ·4	58 ·0
3. 54	25. 30	3. 11	·1105	12. 51	·02165			
4. 10	25. 20	3. 34	·1112	13. 21	·02193			
4. 51	23. 40	4. 15	·1114	13. 43	·02156			
5. 30	25. 30	4. 50	·1110	14. 52	·02197			
6. 54	25. 45	5. 45	·1118	19. 43	·02237			
9. 0	26. 50		***	23. 59	·02154			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 18		Oct. 18						
h m	° ′ ″	h m		h m		h m	°	°
9. 14	21. 25. 40	7. 15	·1126					
9. 23	26. 40	7. 30	·1132					
9. 53	24. 35		***					
10. 0	24. 55	8. 25	·1122					
10. 11	30. 50	8. 43	·1126					
10. 31	24. 50	9. 5	·1125					
10. 50	17. 30	9. 15	·1131					
10. 59	19. 0	9. 40	·1120					
11. 37	9. 30	9. 55	·1130					
11. 55	7. 30	10. 15	·1109					
12. 38	15. 10	10. 29	·1106					
12. 49	15. 15	10. 51	·1129					
13. 0	18. 30		***					
13. 14	24. 20	12. 7	·1100					
13. 40	14. 15	12. 24	·1101					
14. 10	21. 55	12. 43	·1096					
14. 21	19. 30	13. 15	·1121					
14. 32	18. 20	13. 28	·1119					
14. 45	20. 30	13. 44	·1127					
14. 58	19. 45	13. 59	·1127					
15. 14	20. 50	14. 15	·1108					
15. 45	18. 5	14. 38	·1120					
16. 12	18. 55	15. 20	·1116					
16. 33	22. 30	16. 27	·1125					
16. 58	24. 30	16. 45	·1118					
	***	17. 45	·1121					
17. 58	23. 40	18. 30	·1107					
18. 30	27. 10	18. 50	·1120					
18. 43	26. 20	19. 10	·1110					
18. 46	27. 10	19. 25	·1115					
19. 5	27. 5		***					
19. 14	24. 55	20. 35	·1093					
19. 46	28. 40	20. 52	·1100					
19. 52	27. 30		***					
20. 9	31. 0	22. 55	·1110					
20. 19	31. 0	23. 16	·1100					
20. 30	29. 30	23. 35	·1104					
20. 44	32. 30	23. 59	·1106					
21. 7	30. 0							
21. 22	30. 30							
21. 57	25. 50							
	***							
22. 14	26. 30							
22. 25	24. 35							
22. 51	29. 0							
	***							
23. 16	28. 35							
23. 30	31. 50							
23. 59	31. 30							
Oct. 19		Oct. 19		Oct. 19		Oct. 19		
0. 0	21. 31. 30	0. 0	·1106	0. 0	·02154	1. 0	58 ·0	59 ·0
0. 14	26. 45	0. 10	·1098	2. 51	·01955	3. 0	60 ·0	60 ·2
0. 51	30. 10	2. 10	·1099	4. 56	·01730	9. 0	61 ·0	61 ·5
1. 26	29. 20	2. 21	·1095		***	21. 0	59 ·9	61 ·2
1. 39	30. 10	2. 44	·1095	8. 22	·01728			
1. 56	30. 20	3. 2	·1103		***			
2. 14	31. 30		***	11. 3	·01588			

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 19		Oct. 19		Oct. 19				
h m	° ′ ″	h m		h m		h m	°	°
2. 49	21. 26. 20	5. 15	·1110	15. 0	·01664			
3. 15	24. 40	5. 39	·1099	22. 39	{ ·01637			
3. 51:	26. 25	6. 6	·1101		{ ·01685			
4. 34	23. 0	6. 28	·1094	23. 59	·01668			
5. 27	24. 40	6. 40	·1102					
5. 35	26. 40	7. 5	·1083					
5. 44	24. 30	7. 10	·1090					
5. 55	27. 30		***					
6. 10	27. 20	8. 35	·1089					
6. 19	25. 0	8. 55	·1082					
6. 40	20. 0	9. 11	·1082					
6. 53	25. 15	9. 35	·1076					
6. 57	24. 20	9. 45	·1083					
7. 0	26. 0	9. 57	·1079					
7. 12	19. 20	10. 25	·1088					
7. 16	21. 15	11. 0	·1071					
7. 29	18. 30	11. 30	·1111					
8. 1	11. 30	11. 46	·1104					
8. 19	16. 15		***					
9. 15	11. 30	13. 52	·1110					
9. 28	9. 0	15. 45	·1120					
9. 30	9. 15	16. 24	·1116					
9. 44	7. 20	17. 15	·1115					
9. 58	8. 20	17. 55	·1118					
10. 12	6. 20		***					
10. 18	7. 30	21. 0	·1097					
10. 22	7. 15	23. 0	·1086					
10. 29	7. 55	23. 59	·1084					
10. 44	5. 30							
10. 53	8. 30							
11. 10	7. 0							
11. 48	16. 45							
12. 4	13. 55							
12. 39	19. 20							
12. 48	19. 15							
12. 56	20. 30							
13. 27	19. 45							
13. 39	21. 20							
14. 4	21. 20							
14. 15	21. 55							
14. 36	21. 20							
15. 14	21. 50							
15. 29	24. 40							
16. 43	20. 50							
17. 43	20. 40							
18. 29	19. 10							
18. 52	19. 35							
19. 7	18. 30							
20. 30	17. 20							
	***							
21. 52	18. 40							
	***							
23. 45	26. 20							
23. 59	26. 15							
Oct. 20		Oct. 20		Oct. 20		Oct. 20		
0. 0	21. 26. 15	0. 0	·1084	0. 0	·01668	1. 0	61 ·0	62 ·2
1. 28	28. 20	0. 35	·1085	2. 58	{ ·01770	3. 0	62 ·0	63 ·2
2. 15	27. 0	1. 15	·1094		{ ·01837	9. 0	63 ·0	64 ·0

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 20		Oct. 20		Oct. 20		Oct. 20		
h m	° ′ ″	h m		h m		h m	°	°
2. 21	21. 28. 10	2. 10	·1092	4. 0	·01807	21. 0	56·0	58·0
2. 36	28. 10	2. 21	·1098		·01975			
2. 50	27. 10	3. 0	·1099	6. 22	·01830			
3. 10	27. 45	3. 25	·1092	8. 58	·01784			
3. 21	25. 45	3. 45	·1099	11. 15	·01812			
3. 39	26. 0		***	14. 39	·02050			
5. 14	22. 20	5. 40	·1100	19. 10	·02654			
5. 30	22. 45	6. 4	·1106	23. 59	·02647			
5. 51	22. 10		***					
6. 51	21. 45	8. 14	·1104					
7. 26	22. 30	8. 28	·1134					
8. 15	20. 20	8. 55	·1107					
8. 30	12. 0	9. 24	·1102					
8. 36	14. 20		***					
8. 45	15. 15	10. 41	·1105					
9. 5	12. 30		***					
9. 38	15. 35	11. 55	·1114					
9. 50	16. 10	12. 30	·1112					
9. 54	15. 30	12. 42	·1105					
10. 45	17. 5	13. 55	·1115					
11. 0	16. 20	14. 10	·1112					
11. 15	17. 30	14. 36	·1120					
12. 28	18. 55	15. 21	·1114					
12. 50	18. 0	16. 30	·1121					
13. 10	20. 55	18. 50	·1119					
13. 40	21. 30	19. 16	·1128					
14. 1	28. 20	21. 40	·1106					
14 44	22. 20	22. 42	·1102					
15. 14	21. 0	23. 0	·1095					
15. 29	21. 55	23. 20	·1099					
16. 10	20. 50	23. 35	·1093					
18. 37	22. 30	23. 59	·1092					
18. 55	21. 20							
20. 29	18. 5							
21. 7	19. 30							
21. 42	17. 30							
23. 11	29. 40							
23. 30	32. 30							
23. 44	31. 55							
23. 59	32. 40							
Oct. 21		Oct. 21		Oct. 21		Oct. 21		
0. 0	21. 32. 40	0. 0	·1092	0. 0	·02647	1. 0	57·3	60·8
0. 17	34. 0	0. 9	·1093	2. 20	·02396	3. 0	60·9	61·8
0. 25	33. 10	0. 15	·1084	6. 25	·01756	9. 0	62·0	63·0
0. 42	35. 55	0. 42	·1083		·01807	21. 0	57·4	59·2
0. 49	34. 30	1. 8	·1089	11. 42	·01717			
1. 45	35. 30		***	12. 15	·01684			
2. 22:	33. 20	1. 55	·1085	13. 12	·01714			
2. 40	34. 30	3. 35	·1092	14. 43	·01666			
3. 11	32. 30	4. 15	·1089	18. 3	·01876			
3. 36	32. 45	4. 44	·1094	20. 22	·02117			
4. 15	28. 30		***	23. 59	·02293			
4. 40	27. 50	6. 7	·1091					
	***	7. 10	·1102					
5. 29	28. 10	7. 40	·1106					
6. 7	26. 50		***					
6. 42:	24. 30	8. 59	·1104					
7. 0	25. 0	9. 10	·1098					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 21		Oct. 21		h m		h m	°	°
h m	° ′ ″	h m						
7. 45	21. 23. 30	9. 30	·1113					
8. 26	24. 0		***					
9. 0	22. 50	10. 58	·1099					
9. 22	14. 5	11. 30	·1117					
9. 45	21. 30	11. 54	·1108					
	***		***					
10. 25	19. 30	12. 53	·1108					
10. 45	17. 20	13. 47	·1126					
11. 22	19. 30	14. 45	·1125					
11. 52	14. 30	15. 24	·1113					
12. 40	25. 30	15. 48	·1109					
12. 59	26. 45	16. 43	·1114					
13. 12	26. 30	17. 15	·1115					
13. 39	31. 45	17. 45	·1129					
14. 40	17. 30		***					
15. 4	16. 55	18. 50	·1121					
15. 50	22. 30		***					
16. 36	24. 50	19. 30	·1124					
16. 45	26. 5		***					
17. 28	35. 20	19. 55	·1118					
17. 43	34. 45		***					
18. 30	25. 30	20. 41	·1126					
19. 15	23. 15		***					
	***	22. 15	·1103					
19. 48	24. 0	22. 25	·1107					
20. 12	21. 50	23. 57	·1094					
	***							
20. 55	23. 25							
22. 10	25. 30							
22. 15	25. 5							
22. 25	28. 30							
23. 0	32. 10							
23. 15	33. 0							
23. 46	32. 30							
23. 58	33. 45							
	(†)							
Oct. 22		Oct. 22		Oct. 22		Oct. 22		
	(†)	0. 0	·1092	0. 0	·02293	1. 0	59·9	61·0
0. 10	21. 32. 20	0. 24	·1086	1. 13:	·02257	3. 0	61·8	63·0
	***		***	4. 43	·01758	9. 0	61·7	63·0
0. 45	33. 15	1. 6	·1089		·01808	21. 0	55·0	57·0
1. 10	35. 55	1. 50	·1108	10. 11:	·01773			
1. 30	34. 30	2. 5	·1102	20. 0	·02682			
1. 45	34. 30	2. 25	·1104	23. 59	·02683			
1. 53	33. 0	2. 35	·1101					
3. 0	31. 25	3. 3	·1105					
5. 10	26. 20	3. 15	·1100					
6. 10	24. 55	4. 53	·1100					
6. 15	25. 30	6. 30	·1104					
6. 52	25. 0	7. 15	·1112					
7. 43	25. 30	7. 55	·1105					
8. 12	23. 30	8. 20	·1110					
8. 30	22. 55	13. 10	·1117					
9. 15	23. 30	17. 0	·1128					
16. 22	26. 0	19. 40:	·1125					
17. 55	24. 30		***					
18. 54	25. 30	22. 47	·1096					
19. 43	22. 35	23. 59	·1103					

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

Greenwich Mean Solar Time.	Western Declination.
Oct. 22	
h m	° ′ ″
20. 7	21. 22. 30
20. 25	20. 30
20. 36	21. 30
21. 11	21. 10
21. 48	23. 30
22. 0	25. 35
22. 15	25. 55
22. 41	28. 30
23. 40	30. 30
23. 59	34. 50
Oct. 23	
0. 0	21. 34. 50
0. 40	32. 30
0. 46	33. 0
0. 55	32. 0
2. 5	33. 35
2. 40	32. 55
3. 15	31. 5
3. 30	31. 30
3. 52	29. 10
5. 51	26. 30
6. 43	26. 25
7. 6	25. 10
7. 13	25. 55
7. 51	15. 30
8. 11	17. 30
8. 17	17. 15
8. 43	21. 20
9. 25	15. 30
9. 43	20. 20
9. 54	19. 10
10. 50	21. 45
10. 59	21. 20
11. 29	24. 5
11. 56	21. 15
12. 14	20. 30
12. 29	22. 20
12. 50	21. 15
13. 15	25. 40
13. 36	23. 30
13. 52	26. 20
14. 1	25. 55
14. 19	27. 30
14. 39	26. 20
14. 59	27. 25
16. 10	25. 35
16. 44	26. 30
17. 0	23. 30
17. 21	23. 20
	***
18. 12	25. 45
20. 10	21. 30
20. 22	19. 50
21. 40	23. 10
23. 22	31. 40
23. 59	33. 0

Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Oct. 23	
h m	
0. 0	·1103
0. 15	·1109
0. 44	·1101
0. 57	·1106
1. 40	·1109
2. 46	·1105
3. 3	·1101
3. 25	·1108
3. 46	·1105
4. 40	·1113
	***
5. 45	·1117
6. 15	·1111
6. 27	·1114
7. 11	·1102
8. 0	·1117
8. 10	·1111
8. 40	·1111
8. 54	·1124
9. 25	·1120
9. 44	·1108
10. 10	·1113
	***
10. 44	·1107
11. 23	·1119
11. 44	·1112
11. 58	·1115
12. 35	·1111
13. 15	·1121
13. 56	·1104
14. 27	·1113
	***
17. 10	·1128
18. 10	·1118
19. 25	·1119
20. 25	·1104
21. 53	·1097
23. 59	·1103

Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Oct. 23	
h m	
0. 0	·02683
2. 0	·02484
6. 50	·01746
	·01795
13. 37	·01707
18. 12	·01846
20. 25	·01947
23. 59	·02056

Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 23		
h m	°	°
1. 0	57 ·2	58 ·5
3. 0	60 ·0	61 ·0
9. 0	60 ·7	62 ·0
22. 0	58 ·0	59 ·5

Greenwich Mean Solar Time.	Western Declination.
Oct. 24	
h m	° ′ ″
0. 0	21. 33. 0
1. 36	33. 5
4. 11	28. 0
7. 29	26. 45
7. 51	25. 5
8. 52	25. 50
9. 29	22. 30
9. 54	22. 30
10. 22	20. 20
10. 58	21. 10
11. 22	31. 0
11. 51	24. 30
12. 11	22. 45
13. 14	26. 30
13. 55	25. 40
14. 7	26. 30
14. 52	25. 35
15. 4	26. 30
15. 22	26. 5
15. 59	26. 30
16. 52	26. 20
17. 43	27. 20
17. 58	26. 0
18. 10	26. 35
18. 24	25. 15
	***
21. 0	20. 30
	***
23. 59	30. 30
Oct. 25	
0. 0	21. 30. 30
0. 40	30. 30
0. 46	31. 35
1. 18	31. 50
3. 0	28. 30
3. 32	26. 30
4. 51	23. 30
5. 22	24. 30
8. 0	24. 35
	***
9. 45	21. 35
9. 53	22. 30
10. 10	22. 50
10. 22	19. 50
11. 10	23. 30
11. 26	23. 35
11. 43	24. 45
13. 12	26. 0
17. 2	25. 0
17. 26	24. 20
18. 10	24. 30
20. 7	22. 0
20. 44	21. 55
21. 36	23. 30
23. 5	31. 55
23. 59	32. 30

Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Oct. 2	
h m	
0. 0	·1103
	***
5. 0	·1126
8. 30	·1127
8. 48	·1133
9. 55	·1124
10. 20	·1128
10. 48	·1120
11. 5	·1141
11. 30	·1125
12. 2	·1127
13. 2	·1121
	***
17. 0:	·1128
	***
21. 0	·1109
23. 59	·1101
Oct. 25	
0. 0	·1100
0. 35	·1095
2. 50	·1112
3. 13	·1109
3. 51	·1114
4. 10	·1109
5. 10	·1119
6. 53	·1120
7. 30	·1128
8. 8	·1124
9. 30	·1126
	***
10. 10	·1127
10. 30	·1149
	***
10. 45	·1132
18. 15	·1140
21. 25	·1125
23. 30	·1110
23. 59	·1113

Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Oct. 24	
h m	
0. 0	·02056
3. 0	·02095
11. 11	·02056
12. 0	·02018
21. 0	·02210
23. 59	·02190
Oct. 25	
0. 0	·02190
4. 22	·01747
	·01796
8. 25	·01723
10. 52	·01808
19. 30:	·02484
22. 43	·02570
23. 59	·02498

Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F Magnet.
Oct. 24		
h m	°	°
8. 15	58 ·5	58 ·5
21. 0	56 ·9	58 ·0
Oct. 25		
1. 0	58 ·8	59 ·6
3. 0	60 ·0	61 ·0
9. 0	59 ·0	60 ·2
21. 0	54 ·8	55 ·5

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

October 25^{d}. 9^{h}. After this hour the times both of the Declination and Horizontal Force are probably subject to an increasing error, not exceeding half an hour at the end of the day.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 26		Oct. 26		Oct. 26		Oct. 26		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 32. 30	0. 0	·1111	0. 0	·02498	1. 0	58 ·0	58 ·0
1. 6	32. 35		***	0. 50	{·02417	3. 0	60 ·0	61 ·0
1. 39	31. 40	3. 15	·1114		{·02140	9. 0	59 ·0	60 ·2
1. 59	31. 40	3. 40	·1120	2. 59	·01843	21. 0	54 ·0	56 ·0
3. 12	28. 30	4. 50	·1114	6. 15	{·01786			
4. 13	27. 45	5. 3	·1106		{·02104			
4. 30	28. 40	5. 16	·1107	9. 3	·02090			
4. 57	27. 30	5. 40	·1122	11. 0	·02184			
5. 29	19. 30	6. 14	·1110	15. 50	·02583			
5. 42	19. 0		***	16. 12	·02572			
5. 48	19. 30	7. 7	·1121	16. 54	·02622			
6. 13	24. 45	7. 25	·1115	19. 43	{·02654			
6. 26	24. 20	7. 45	·1114		{·02577			
6. 36	26. 20	8. 40	·1126	21. 14	{·02598			
7. 7	23. 35	8. 55	·1120		{·02447			
7. 19	23. 40	9. 15	·1126	22. 43	·02506			
8. 0	20. 40	9. 53	·1125	23. 59	·02343			
8. 15	21. 55	10. 35	·1133					
8. 51	22. 25	11. 45	·1135					
9. 12	20. 10	12. 0	·1140					
9. 35	21. 30	12. 45	·1137					
9. 50	21. 20		***					
10. 6	20. 0	14. 30	·1138					
10. 43	22. 10	15. 10	·1142					
12. 30	26. 45	15. 28	·1137					
12. 54	24. 0	16. 5	·1161					
13. 40	24. 15	16. 35	·1155					
14. 19	28. 15	17. 25:	·1159					
14. 36	26. 40	18. 55	·1145					
14. 51	26. 40	19. 40	·1142					
15. 0	28. 20		***					
15. 24	28. 20	22. 30	·1110					
15. 36	31. 50	22. 40	·1118					
16. 25	21. 50	22. 53	·1117					
17. 0	25. 0	23. 6	·1104					
17. 15	24. 30	23. 50	·1099					
17. 59	26. 10		(†)					
18. 30	25. 30							
18. 44	27. 50							
19. 19	26. 30							
19. 36	26. 50							
20. 32	25. 0							
20. 45	26. 10							
20. 56	25. 30							
21. 39	28. 10							
21. 43	27. 50							
22. 12	30. 20							
22. 22	31. 30							
22. 29	31. 15							
22. 51	38. 20							
23. 17	37. 20							
	(†)							
Oct. 27		Oct. 27		Oct. 27		Oct. 27		
	(†)		†	0. 0	·02343	1. 0	57 ·0	58 ·0
0. 10	21. 36. 10	0. 10	·1106	1. 27	·02211	3. 0	60 ·0	60 ·0
1. 17	35. 30	0. 45	·1104	3. 39	·01864	9. 0	59 ·0	60 ·0
1. 52	33. 40		***	8. 0	{·01756	21. 0	53 ·8	55 ·0
					{·01884			

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 27		Oct. 27		Oct. 27		h m	°	°
h m	° ′ ″	h m		h m				
2. 52	21. 27. 15	1. 55	·1108	10. 12	·01937			
3. 53	23. 30	2. 10	·1104		***			
5. 50	21. 10	4. 15	·1121	12. 19	·02046			
6. 10	18. 30	5. 15	·1124		***			
6. 25	17. 25	6. 15	·1118	13. 0	·01933			
6. 37	15. 30	6. 40	·1126	13. 28	·01910			
7. 11	16. 55	7. 10	·1128		***			
7. 30	18. 40	7. 30	·1124	14. 12	·02077			
7. 45	17. 40	8. 19	·1126	14. 34	·02008			
7. 59	18. 30		***	14. 44	·02074			
8. 11	18. 15	10. 0	·1132	15. 6	·01863			
8. 22	19. 30	10. 25	·1139	15. 14	·01953			
8. 39	18. 30	10. 54	·1137		***			
9. 10	20. 30	11. 3	·1144	16. 40	·02284			
9. 44	20. 30	11. 23	·1141	16. 54	·02284			
10. 11	21. 30	11. 25	·1168	17. 19	·02330			
10. 27	21. 15	11. 30	·1161	18. 40	{·02607			
10. 39	22. 0	11. 42	·1178		{·02563			
11. 1	21. 40	11. 48	·1170	21. 4	{·02628			
11. 29	23. 55	12. 6	·1215		{·02567			
11. 41	29. 30	12. 40	·1156	23. 59	·02576			
11. 53	20. 20	12. 58	·1117					
12. 11	33. 25	13. 20	·1130					
12. 45	19. 10	13. 30	·1119					
12. 52	21. 15	13. 40	·1119					
13. 16	4. 25	13. 54	·1138					
13. 50	28. 30	14. 14	·1070					
14. 0	22. 30	14. 30	·1104					
14. 18	52. 50	14. 39	·1087					
14. 53	13. 5	14. 47	·1133					
15. 21	20. 50	14. 58	·1146					
15. 36	16. 0	15. 4	·1135					
15. 58	24. 30	15. 28	·1132					
16. 15	31. 15	15. 40	·1138					
16. 31	35. 55	16. 0	·1132					
16. 40	34. 45	16. 8	·1140					
16. 51	39. 30	16. 18	·1140					
17. 12	26. 20	16. 35	·1120					
17. 24	28. 15	16. 50	·1120					
17. 42	23. 10	17. 0	·1095					
17. 45	24. 15	17. 25	·1119					
18. 7	22. 30	17. 45	·1114					
18. 11	24. 30		***					
18. 18	22. 30	18. 55	·1124					
	***		***					
18. 59	23. 0	20. 0	·1125					
19. 16	21. 0		***					
19. 29	21. 50	21. 24	·1121					
	***		***					
20. 10	21. 30	22. 28	·1106					
	***	22. 44	·1100					
20. 21	23. 0	23. 7	·1093					
20. 32	21. 10	23. 59	·1094					
20. 43	21. 20							
20. 46	22. 30							
20. 58	22. 30							
21. 7	21. 30							
	***							

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 27								
h m	° ′ ″	h m		h m		h m	°	°
21. 41	21. 22. 30							
	***							
23. 59	29. 20							
Oct. 28		Oct. 28		Oct. 28		Oct. 28		
0. 0	21. 29. 20	0. 0	·1095	0. 0	·02576	1. 0	56 ·0	57 ·0
0. 54	30. 40	0. 52	·1104	2. 45	·02354	3. 0	58 ·0	59 ·0
2. 26	27. 30		***	8. 3:	·01755	9. 0	58 ·0	58 ·5
4. 42	24. 45	2. 16	·1104	12. 52	·01872	21. 0	48 ·0	51 ·0
5. 19	21. 20	3. 0	·1114	13. 13	·01868			
5. 40	21. 15	4. 40	·1114	18. 30	·02576			
6. 15	25. 5	5. 10	·1110		·02538			
11. 32	24. 55	5. 55	·1125	23. 59	·02633			
11. 52	24. 0	6. 24	·1122					
12. 13	23. 40	7. 5	·1126					
	(†)	10. 40	·1127					
13. 58	23. 45		***					
14. 43	22. 45	11. 58	·1130					
15. 0	23. 50	12. 27	·1127					
15. 11	23. 30	12. 40	·1131					
15. 28	23. 50	13. 0	·1127					
15. 43	25. 0	13. 55	·1136					
15. 52	24. 5	14. 30	·1130					
16. 10	25. 30	15. 25	·1128					
16. 31	24. 0	15. 45	·1133					
17. 10	26. 0	17. 0	·1134					
17. 54	26. 0	18. 0	·1144					
19. 10	23. 55	18. 30	·1142					
	***	19. 15	·1145					
19. 44	23. 55		***					
19. 57	22. 15	20. 39	·1121					
	***		***					
20. 32	23. 30	21. 45	·1131					
20. 44	20. 30	22. 15	·1123					
20. 57	24. 0	22. 30	·1127					
21. 6	22. 30	23. 24	·1117					
	***	23. 59	·1112					
21. 37	24. 30							
	***							
22. 13	23. 30							
22. 45	28. 40							
23. 15	29. 20							
	(†)							
Oct. 29		Oct. 29		Oct. 29		Oct. 29		
	(†)	0. 0	·1112	0. 0	·02633	1. 0	51 ·0	52 ·5
0. 10	21. 30. 35	0. 53	·1089	1. 12	·02615	3. 0	53 ·0	54 ·3
0. 28	29. 10	1. 35	·1113	5. 14:	·02084	9. 0	52 ·8	54 ·0
0. 45	31. 55		***	8. 45	·01852	21. 0	46 ·8	49 ·0
1. 40	33. 30	3. 40	·1115	13. 24	·01892			
3. 30	29. 20	5. 0	·1124	17. 52	·02163			
3. 40	30. 50	5. 25	·1112	20. 43	·02530			
4. 5	27. 0	5. 55	·1134		·02472			
4. 11	27. 0	6. 5	·1127	22. 40	·02533			
4. 39	24. 30	6. 25	·1131		·02456			
4. 56	25. 30	6. 40	·1125	23. 59	·02475			
5. 11	24. 10	7. 15	·1128					
5. 40	22. 30	8. 0	·1140					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 29		Oct. 29						
h m	° ′ ″	h m		h m		h m	°	°
5. 54	21. 20. 0	8. 45	·1112					
6. 22	10 20	9. 6	·1131					
6. 58	21. 0		***					
7. 12	22. 40	10. 0	·1131					
7. 30	21. 30		***					
7. 56	22. 50	11. 55	·1142					
8. 29	21. 45	12. 30	·1153					
8. 47	18. 40	12. 40	·1147					
8. 54	20. 10	12. 50	·1153					
9. 0	19. 30	13. 0	·1144					
9. 12	21. 10	13. 3	·1152					
9. 43	13. 30	13. 45	·1146					
10. 0	18. 30	13. 51	·1152					
	***	14. 0	·1142					
10. 59	19. 0	14. 12	·1147					
11. 15	19. 50	14. 21	·1142					
11. 30	19. 15	14. 55	·1151					
12. 22	22. 45	15. 55	·1143					
12. 37	22. 40	16. 24	·1148					
12. 55	26. 20	16. 35	·1147					
	(†)	16. 54	·1131					
13. 44	23. 0	17. 15	·1151					
13. 49	22. 30	17. 40	·1163					
13. 52	23. 10	18. 5	·1137					
14. 4	21. 45		***					
14. 14	23. 0	18. 55	·1155					
14. 40	21. 0		***					
14. 57	21. 30	20. 30	·1134					
15. 5	23. 0		***					
15. 14	23. 40	21. 4	·1137					
15. 22	22. 30		***					
15. 43	26. 30	21. 40	·1136					
15. 48	26. 10		***					
15. 58	27. 0	22. 25	·1113					
16. 21	27. 5	22. 40	·1113					
16. 52	33. 15	22. 55	·1128					
17. 10	32. 30	23. 10	·1118					
17. 20	34. 50	23. 30	·1126					
17. 39	29. 35	23. 52	·1123					
17. 52	28. 30		(†)					
18. 4	31. 45							
18. 11	31. 0							
18. 15	32. 0							
18. 28	30. 0							
18. 40	31. 30							
18. 52	30. 50							
19. 15	25. 10							
19. 22	26. 55							
19. 28	26. 10							
19. 31	27. 10							
19. 46	24. 30							
19. 58	27. 0							
20. 7	25. 5							
20. 12	26. 40							
20. 22	25. 20							
20. 28	27. 0							
20. 52	24. 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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 29								
h m	° ′ ″	h m		h m		h m	°	°
21. 22	21. 25. 50							
21. 29	24. 10							
21. 44	28. 50							
21. 55	27. 55							
22. 0	29. 0							
22. 10	29. 40							
22. 26	26. 30							
23. 0	31. 20							
23. 30	31. 50							
	(†)							
Oct. 30		Oct. 30		Oct. 30		Oct. 30		
3. 0	21. 35. 35*	1. 0	·1111*	0. 0	·02475	1. 0	50 ·0	51 ·5
9. 0	29. 25*	3. 0	·1115*	1. 4:	·02396	3. 0	53 ·8	54 ·5
22. 22	33. 55*	9. 0	·1138*	4. 10	·01795	9. 0	54 ·5	55 ·0
		22. 22	·1131*	9. 59:	·01656	22. 22	49 ·0	51 ·0
				17. 51	·02018			
				23. 59	·02412			
Oct. 31		Oct. 31		Oct. 31		Oct. 31		
0. 0	21. 38. 0	0. 0	·1126	0. 0	·02412	8. 46	51 ·5	52 ·5
1. 17	39. 30	1. 10	·1126	0. 40:	·02400	21. 0	44 ·0	46 ·5
1. 30	42. 30	1. 30:	·1129	6. 0	·01952			
2. 15	39. 30	2. 39	·1121	7. 22	·01866			
4. 22	33. 50		***	7. 53	·01920			
6. 10	33. 30	4. 25	·1138	8. 15	·01830			
7. 10	39. 20	5. 54	·1138	9. 43	·01793			
7. 45	6. 15	6. 0	·1160	10. 32	·01837			
8. 10	30. 0	6. 6	·1150	10. 53	·01787			
8. 13	28. 20	6. 30	·1147	11. 34	·01794			
8. 15	29. 15	6. 50	·1152	14. 50	·02056			
8. 24	26. 30	7. 7	·1148	15. 0	·02050			
8. 30	28. 15	7. 30	·1113	18. 0	·02512			
8. 52	13. 30	7. 40	·1120		·02456			
9. 5	24. 20	7. 52	·1120	19. 52	·02538			
9. 30	16. 35	8. 0	·1151		·02492			
9. 56	19. 30		***	21. 15	·02550			
10. 14	19. 20	8. 26	·1150		·02455			
10. 36	22. 40	8. 39	·1134	23. 59	·02580			
10. 43	17. 50	8. 55	·1151					
10. 52	30. 50	9. 5	·1135					
11. 0	29. 30	9. 16	·1126					
11. 7	32. 10	9. 45	·1113					
	(†)	10. 24	·1117					
11. 45	36. 15	10. 34	·1161					
11. 52	33. 30	10. 45	·1134					
12. 12	34. 0	11. 2	·1162					
12. 25	31. 55	11. 15	·1167					
12. 50	22. 35	11. 40	·1140					
13. 21	28. 40	11. 55	·1148					
13. 45	23. 55		***					
13. 50	24. 40	12. 30	·1128					
13. 56	24. 10	12. 57	·1143					
14. 32	36. 30	13. 15	·1130					
14. 52	28. 30	13. 43	·1140					
15. 4	27. 50	13. 54	·1132					
15. 54	33. 20	14. 15	·1129					
16. 13	32. 10	14. 40	·1138					
16. 46	38. 0	15. 10	·1164					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 31		Oct. 31						
h m	° ′ ″	h m		h m		m	°	°
17. 10	21. 40. 20	15. 39	·1150					
17. 45	41. 10	16. 23	·1162					
	***	17. 15	·1137					
18. 56	32. 45	17. 39	·1142					
	***	18. 0	·1135					
19. 36	33. 30		***					
	***	19. 14	·1148					
20. 24	32. 30	20. 0	·1146					
	***	21. 14	·1148					
21. 40	32. 0		***					
	***	22. 30	·1131					
23. 6	37. 0	23. 59	·1133					
	(†)							
Nov. 1		Nov. 1		Nov. 1		Nov. 1		
	(†)	0. 0	·1133	0. 0	·02580	1. 0	45 ·0	47 ·0
0. 50	21. 37. 30		***	1. 57	·02618	3. 0	47 ·5	48 ·8
	***	1. 20	·1126		·02537	9. 0	50 ·8	51 ·7
2. 40	38. 20		***	3. 11	·02476	21. 0	49 ·0	51 ·0
2. 51	36. 15	3. 19	·1128	6. 33	·01932			
3. 0	36. 30	3. 45	·1135	8. 0	·01746			
3. 28	33. 50	3. 57	·1128	10. 25	·01684			
3. 53	37. 25		***	15. 25	·01645			
4. 25	36. 0	4. 36	·1127	18. 52	·01686			
4. 45	32. 50	5. 0	·1139	23. 59	·01872			
5. 11	33. 30	5. 14	·1130					
5. 36	31. 30		***					
5. 58	30. 40	6. 15	·1134					
6. 13	31. 0	6. 30	·1128					
6. 46	28. 0	6. 55	·1139					
7. 5	29. 10	7. 9	·1141					
7. 18	28. 30	7. 24	·1149					
7. 30	29. 50	7. 55	·1143					
	***	8. 32	·1148					
8. 45	28. 20	9. 20	·1144					
9. 30	20. 30	9. 40	·1158					
9. 51	27. 35	10. 6	·1138					
9. 57	27. 30		***					
10. 3	29. 30	10. 44	·1150					
10. 39	19. 30	11. 0	·1138					
10. 52	20. 10	11. 25	·1138					
11. 0	19. 0	11. 54	·1146					
11. 40	23. 50	12. 17	·1138					
12. 0	24. 30	12. 44	·1137					
12. 28	22. 30	14. 55	·1148					
14. 14	26. 35		***					
14. 48	25. 0	16. 25	·1138					
15. 14	25. 35	16. 54	·1141					
15. 37	28. 50		***					
16. 30	32. 0	19. 55	·1143					
17. 17	29. 50		***					
18. 5	30. 30	22. 55	·1117					
20. 7	28. 15	23. 25	·1117					
	***	23. 55	·1122					
21. 30	30. 30		(†)					
21. 43	32. 30							
21. 58	31. 45							
	***							
22. 44	34. 30							

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

October 30. There was no trace for the Declination and Horizontal Force Magnets, owing to a stoppage of the time-piece.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 1								
h m	° ′ ″	h m		h m		h m	°	°
23. 14	21. 34. 25							
23. 43	36. 30							
23. 59	35. 30							
Nov. 2		Nov. 2		Nov. 2		Nov. 2		
0. 0	21. 35. 30		(†)	0. 0	·01874	1. 0	52 ·0	52 ·8
0. 7	35. 5	0. 6	·1118	1. 10	·01760	3. 0	55 ·0	55 ·2
0. 37	36. 30	0. 30	·1121	3. 51	·01886	9. 0	54 ·0	55 ·0
0. 59	35. 30	0. 55	·1113	7. 7	·01796	21. 0	46 ·0	48 ·0
1. 15	37. 20	1. 17	·1118		·01966			
1. 43	35. 0		***	10. 30	·02026			
2. 30	33. 30	1. 50	·1113	13. 24	·02256			
3. 7	31. 15	2. 25	·1121	17. 22	·02717			
3. 40:	28. 10		***	19. 8	·02725			
4. 13	29. 50	3. 17	·1116		·02606			
5. 50	27. 40	4. 6	·1131	22. 11	·02652			
8. 36	28. 10	8. 23	·1139		·02427			
10. 44	30. 5	11. 0	·1150	23. 55	·02477			
10. 59	29. 15	11. 26	·1147		(†)			
11. 41	30. 50	11. 52	·1152					
12. 6	29. 30	12. 0	·1147					
12. 40	33. 20	12. 15	·1151					
	***	12. 20	·1150					
13. 10	31. 55	12. 40	·1152					
13. 24	33. 0	12. 47	·1146					
14. 45	29. 30	12. 55	·1151					
16. 0	30. 0	13. 8	·1149					
16. 56	31. 30	13. 22	·1155					
17. 29	33. 30	15. 15:	·1161					
18. 28	29. 30	17. 1	·1155					
20. 39	28. 10	18. 0	·1166					
	***		***					
23. 39	37. 35	19. 4	·1170					
23. 45	35. 30		***					
23. 59	36. 30	21. 55	·1160					
		22. 25	·1145					
		23. 23	·1133					
		23. 39	·1135					
		23. 45	·1127					
		23. 59	·1127					
Nov. 3		Nov. 3		Nov. 3		Nov. 3		
0. 0	21. 36. 30	0. 0	·1127		(†)	1. 0	49 ·0	51 ·0
0. 15	35. 45	0. 46	·1128	0. 45	·02472	3. 0	54 ·0	54 ·8
0. 40	36. 30	0. 55	·1125	1. 43	·02375	9. 0	55 ·0	57 ·0
0. 44	37. 45	1. 38	·1136	3. 40	·01887	21. 0	51 ·4	53 ·0
0. 56	33. 20	1. 44	·1130	7. 28	·01826			
1. 0	35. 10	2. 15	·1129		·01925			
1. 18	33. 20	2. 30	·1123	11. 45	·01873			
1. 44	34. 15	2. 54	·1128	19. 15	·02184			
2. 14	37. 5	3. 35	·1126	22. 30	·02230			
2. 33	35. 0		***	23. 59	·02186			
2. 43	36. 0	4. 30	·1113					
	***		***					
3. 54	34. 35	5. 10	·1121					
4. 30	31. 30	5. 28	·1120					
4. 44	32. 10	6. 1	·1128					
5. 18	32. 30	6. 15	·1124					
5. 36	30. 40	6. 45	·1126					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 3		Nov. 3						
h m	° ′ ″	h m		h m		h m	°	°
5. 58	21. 25. 35	7. 20	·1121					
6. 30	30. 0	7. 36	·1123					
6. 50	29. 5	7. 43	·1121					
7. 40	28. 35	8. 29	·1134					
8. 0	26. 20	8. 40	·1124					
8. 25	25. 45	9. 4	·1128					
8. 40	28. 30	9. 17	·1142					
9. 12	26. 30	9. 30	·1133					
9. 50	27. 30	9. 51	·1135					
10. 26	20. 30	10. 15	·1130					
10. 30	22. 0	10. 40	·1152					
10. 51	12. 10	10. 50	·1148					
11. 22	28. 30	11. 13	·1136					
11. 43	24. 0	11. 28	·1141					
12. 7	20. 50	11. 46	·1130					
12. 26	22. 30		***					
13. 2	30. 30	12. 45	·1132					
14. 54	30. 30	13. 30	·1144					
15. 10	33. 30	14. 7	·1142					
15. 36	31. 30	14. 42	·1144					
15. 52	32. 40	15. 12	·1139					
16. 29	30. 0	15. 38	·1147					
18. 5	28. 20	15. 55	·1145					
19. 37	27. 30	16. 15	·1151					
21. 56	29. 20	17. 53	·1152					
22. 58	32. 55	19. 45	·1144					
23. 11	32. 0	20. 10	·1138					
23. 40	34. 20	21. 20	·1133					
23. 59	34. 30	22. 0	·1124					
		23. 25	·1121					
		23. 59	·1123					
Nov. 4		Nov. 4		Nov. 4		Nov. 4		
0. 0	21. 34. 30	0. 0	·1123	0. 0	·02186	1. 0	54 ·0	55 ·0
2. 15	33. 30	0. 22	·1125	1. 22	·02092	3. 0	45 ·0	47 ·0
3. 43	30. 45	0. 40	·1121	3. 15	·01847	9. 0	56 ·5	58 ·0
5. 12	29. 20	4. 45	·1126		·01868	21. 0	53 ·0	55 ·0
5. 44	26. 45	5. 10	·1124	4. 12	·01864			
6. 4	28. 30	5. 50	·1129		·01950			
	***	7. 10	·1135	4. 53	·01917			
10. 49	25. 30	8. 0	·1133	12. 45	·01952			
	***		***	22. 30	·02312			
14. 52	31. 15	9. 40	·1133	23. 59	·02332			
19. 18	29. 30		***					
21. 42	31. 40	14. 15	·1143					
23. 33	37. 0	16. 30	·1149					
23. 59	35. 30	18. 40	·1147					
		19. 21	·1140					
		20. 45	·1139					
		22. 30	·1125					
		23. 15	·1122					
		23. 45	·1126					
			(†)					
Nov. 5		Nov. 5		Nov. 5		Nov. 5		
0. 0	21. 35. 30		(†)	0. 0	·02332	1. 0	55 ·0	56 ·0
0. 10	35. 0	0. 15	·1118	0. 57	·02323	3. 0	56 ·8	57 ·0
1. 15	36. 30	1. 25	·1125	6. 0	·01868	9. 0	56 ·5	58 ·0
1. 31	35. 20		***		·02020	21. 0	49 ·0	51 ·5

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 5		Nov. 5		Nov. 5				
h m	° ′ ″	h m		h m		h m	°	°
3. 0	21. 34. 45	2. 45	·1123	7. 24	·01960			
3. 30	32. 40	3. 0	·1127	12. 13	·02056			
4. 59	29. 15	3. 35	·1125	15. 15	·02280			
10. 25	30. 15	4. 30	·1135	19. 50	·02763			
11. 44	29. 30	6. 30	·1139	23. 59	·02780			
12. 15	26. 10	7. 15	·1137					
13. 20	28. 20	9. 55	·1147					
13. 29	28. 0	11. 33	·1144					
14. 30	29. 35	11. 53	·1152					
20. 44	27. 30	12. 10	·1142					
20. 56	28. 30	12. 28	·1147					
21. 27	28. 30	12. 45	·1142					
23. 53	32. 30		***					
	(†)	14. 45	·1146					
		18. 10:	·1152					
		22. 57	·1133					
		23. 55	·1137					
			(†)					
Nov. 6		Nov. 6		Nov. 6		Nov. 6		
0. 6	21. 33. 20	0. 0	·1135	0. 0	·02780	1. 0	52 ·0	53 ·0
0. 43	34. 0		***	1. 19	·02724	3. 0	54 ·0	55 ·0
3. 30	31. 0	3. 10	·1141	6. 30:	·02164	9. 0	51 ·5	53 ·0
5. 24	30. 30	3. 30	·1125	9. 7	·02217	22. 0	46 ·0	48 ·5
6. 0	29. 45	3. 45	·1125	14. 45	·02580			
7. 11	29. 35	4. 0	·1112	16. 40	·02743			
7. 42	27. 30	7. 0	·1128	21. 40	·02738			
8. 44	30. 0		***		·02670			
9. 40	29. 30	9. 41	·1127	23. 59	·02693			
9. 53	28. 20	10. 39	·1132					
11. 26	24. 40	11. 0	·1127					
12. 50	25. 0	11. 44	·1127					
13. 7	24. 30	12. 15	·1134					
13. 23	25. 50		***					
13. 45	25. 10	14. 15	·1139					
14. 12	26. 15	14. 30	·1137					
14. 27	26. 55	15. 45	·1140					
15. 10	28. 30	16. 25	·1139					
15. 36	27. 20		***					
16. 15	28. 35	18. 30	·1146					
17. 11	28. 50	21. 30	·1131					
17. 29	28. 10	23. 15	·1125					
17. 59	28. 30	23. 23	·1125					
18. 26	27. 10	23. 59	·1127					
18. 46	28. 30							
20. 39	27. 30							
21. 12	28. 30							
22. 18	32. 30							
23. 13	37. 20							
23. 30	34. 15							
23. 59	34. 55							
Nov. 7		Nov. 7		Nov. 7		Nov. 7		
0. 0	21. 34. 55	0. 0	·1128	0. 0	·02693	6. 40	49 ·5	51 ·6
2. 49	31. 50	2. 55	·1135	1. 12	·02690	21. 0	47 ·0	48 ·3
3. 30	30. 30	4. 53	·1135	8. 28:	·02200			
5. 52	30. 0	8. 30	·1143	12. 40	·02244			
6. 30	30. 25	9. 35	·1138	20. 10	·02508			
7. 13	28. 30	9. 55	·1140	23. 59	·02512			

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 7		Nov. 7						
h m	° ′ ″	h m		h m		h m	°	°
9. 28	21. 29. 10	10. 22	·1138					
10. 5	24. 20	10. 41	·1130					
10. 45	25. 35		***					
11. 18	20. 50	13. 30	·1134					
12. 4	23. 35	14. 10	·1139					
12. 36	23. 20	14. 30	·1137					
12. 59	25. 0		***					
13. 26	28. 0	18. 5:	·1147					
14. 45	30. 0	22. 7	·1123					
17. 28	29. 10	23. 0	·1120					
20. 3	26. 30	23. 59	·1117					
21. 24	26. 30							
22. 40	30. 0							
22. 50	31. 30							
23. 10	31. 45							
23. 15	33. 20							
23. 36	32. 15							
23. 59	33. 35							
Nov. 8		Nov. 8		Nov. 8		Nov. 8		
0. 0	21. 33. 35	0. 0	·1117	0. 0	·02512	1. 0	49 ·2	51 ·0
0. 13	34. 20	0. 45	·1122	2. 30	·02330	3. 0	52 ·0	52 ·0
1. 8	33. 30	1. 7	·1120	6. 22	·01770	9. 0	54 ·0	55 ·0
1. 20	34. 0		***	11. 55	·01724	21. 0	50 ·0	51 ·5
2. 10	31. 30	2. 24	·1131	20. 11	·02016			
2. 20	32. 30	2. 38	·1126	22. 50	·02150			
3. 59	29. 30	4. 0	·1124	23. 59	·02173			
5. 50	28. 30	4. 55	·1128					
8. 40	28. 30	9. 46	·1134					
11. 10	30. 15	10. 4	·1136					
	***		***					
16. 12	31. 0	12. 54	·1135					
17. 10	29. 35	17. 10	·1141					
20. 43	28. 40	19. 55	·1137					
20. 52	30. 10	21. 45	·1126					
21. 25	29. 30	22. 30:	·1117					
21. 52	31. 20	23. 40	·1121					
22. 11	31. 50	23. 59	·1123					
23. 59	33. 40							
Nov. 9		Nov. 9		Nov. 9		Nov. 9		
0. 0	21. 33. 40	0. 0	·1123	0. 0	·02173	1. 0	52 ·0	52 ·7
0. 56	34. 5	0. 30	·1127	1. 45	·02097	3. 0	54 ·2	54 ·7
1. 14	35. 30	1. 0	·1118	4. 11	·01766	9. 0	52 ·0	53 ·0
1. 54	33. 30	2. 7	·1116		·01807	21. 0	42 ·2	44 ·8
3. 43	30. 5	6. 6	·1128	6. 50	·01733			
5. 36	28. 40	11. 30	·1140	8. 11	·01770			
6. 13	29. 30	11. 55	·1136		·01928			
	***	12. 9	·1139	11. 0	·02136			
11. 58	29. 10	12. 20	·1136	15. 12	·02684			
	***	15. 45	·1147		·02618			
12. 36	28. 10	19. 40	·1151	22. 45	·02653			
	***	21. 25	·1142		·02564			
13. 22	29. 35	23. 14	·1126	23. 59	·02570			
	***	23. 45	·1127					
19. 6	29. 10	23. 59	·1129					
21. 21:	27. 30							
23. 59	34. 10							

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 10		Nov. 10		Nov. 10		Nov. 10		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 34. 10	0. 0	·1129	0. 0	·02570	1. 0	44 ·3	46 ·0
0. 40	33. 15	0. 21	·1130	1. 45	·02508	3. 0	47 ·0	48 ·0
0. 50	33. 40	1. 9	·1131	5. 52:	·01897	9. 0	48 ·3	49 ·1
1. 25	33. 55		***	8. 25	·01706	21. 0	44 ·0	46 ·0
1. 44	34. 30	2. 50	·1127	11. 39:	·01675			
2. 27	33. 40	5. 40:	·1138	20. 0	·02166			
2. 52	31. 30	7. 54	·1132	22. 43	·02264			
5. 12	29. 15	8. 30	·1132	23. 45	·02261			
7. 45	30. 20	8. 47	·1122		(†)			
8. 16	29. 0	9. 55	·1134					
8. 32	30. 30	10. 5	·1132					
8. 54	27. 30	10. 40	·1140					
9. 10	26. 35	11. 0	·1137					
	***	11. 19	·1142					
9. 45	27. 25	11. 34	·1140					
9. 55	28. 50		***					
10. 15	27. 30	14. 25	·1148					
10. 54	28. 50	15. 15	·1153					
11. 7	28. 20	15. 38	·1151					
13. 27	31. 40	15. 55	·1158					
14. 0	30. 0	16. 46	·1163					
14. 52	30. 5	17. 39	·1155					
15. 6	29. 30		***					
15. 29	32. 30	20. 10	·1151					
16. 6	33. 0	21. 48	·1141					
17. 7	21. 45	22. 12	·1131					
17. 30	24. 50		***					
18. 10	27. 0	23. 58	·1124					
18. 38	27. 0							
19. 0	27. 55							
19. 12	27. 25							
19. 28	28. 5							
	***							
20. 37	26. 30							
21. 24	27. 20							
	***							
22. 0	28. 45							
22. 10	27. 40							
	***							
23. 15	34. 30							
23. 59	34. 0							
Nov. 11		Nov. 11		Nov. 11		Nov. 11		
0. 0	21. 34. 0	0. 0	·1125		(†)	1. 0	47 ·0	48 ·3
0. 8	33. 45	1. 57	·1121	0. 55	·02163	3. 0	51 ·0	51 ·4
0. 21	35. 20	4. 15	·1125	2. 0	·02063	9. 0	52 ·0	52 ·0
0. 33	34. 10	5. 26	·1128	3. 10	·01783	21. 0	43 ·8	46 ·0
0. 45	35. 5	5. 50	·1122	9. 7	·01692			
2. 40	32. 30	6. 30	·1125	16. 39	·01922			
4. 14	30. 40	6. 54	·1122	22. 15	·02700			
5. 32	30. 30	8. 40	·1131	23. 59	·02713			
5. 47	29. 0	12. 35	·1140					
6. 44	31. 50	13. 24	·1138					
9. 0	29. 15	17. 25	·1148					
13. 12	29. 0	17. 55	·1157					
14. 21	31. 30		***					
	***	19. 30	·1156					
15. 6	30. 50		***					
	***							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
17. 15	21. 31. 50	21. 12	·1142					
	***	21. 25	·1144					
18. 31	29. 40	21. 49	·1131					
19. 0	30. 5	22. 15	·1132					
19. 25	28. 45	22. 45	·1132					
19. 34	29. 10	22. 52	·1125					
19. 57	27. 45	23. 55	·1115					
	***		(†)					
20. 26	29. 0							
20. 52	27. 20							
	***							
22. 43	30. 10							
22. 59	32. 10							
23. 36	33. 40							
23. 45	33. 0							
23. 57	36. 30							
23. 59	35. 30							
Nov. 12		Nov. 12		Nov. 12		Nov. 12		
0. 0	21. 35. 30		(†)	0. 0	·02713	1. 0	47 ·3	48 ·4
0. 25	36. 0	0. 5	·1118	1. 57	·02558	3. 0	50 ·8	51 ·0
0. 30	38. 40		***	3. 58	·02167	9. 0	50 ·6	51 ·0
0. 44	36. 40	0. 30	·1112	7. 44:	·01744	21. 0	43 ·0	45 ·0
0. 48	37. 15	0. 39	·1118	12. 48	·01964			
1. 15	33. 0		***	20. 35	·02718			
1. 24	34. 55	1. 23	·1102	21. 20	{ ·02718			
1. 30	34. 0	1. 40	·1108		{ ·02529			
1. 41	34. 15	1. 55	·1102	23. 45	·02596			
1. 52	31. 30	2. 27	·1126		(†)			
1. 58	32. 45		***					
2. 13	33. 0	3. 38	·1124					
2. 26	34. 40	3. 53	·1113					
	***	4. 30	·1121					
2. 45	33. 10	6. 40	·1121					
	***	7. 39	·1124					
3. 30	32. 30	8. 0	·1129					
3. 45	30. 0	8. 28	·1129					
3. 51	30. 45	8. 57	·1136					
6. 12	28. 40		***					
6. 45	29. 30	15. 10	·1142					
8. 15	29. 10	16. 55	·1142					
8. 52	28. 15	18. 35	·1150					
11. 40	30. 10	19. 12	·1145					
16. 0	30. 40	20. 0	·1147					
	***	21. 0	·1135					
21. 30	28. 30	21. 4	·1138					
	***	21. 40	·1130					
23. 15	33. 30	21. 50	·1135					
23. 33	33. 20	21. 55	·1130					
23. 40	34. 20	22. 10	·1134					
23. 45	33. 0	23. 59	·1125					
23. 59	34. 10							
Nov. 13		Nov. 13		Nov. 13		Nov. 13		
0. 0	21. 34. 10	0. 0	·1125		(†)	1. 0	46 ·7	47 ·5
0. 36	34. 20	0. 15	·1126	0. 14	·02580	4. 0	49 ·8	50 ·0
0. 41	35. 55	0. 28	·1122	1. 52	·02447	9. 0	51 ·0	51 ·5
1. 5	33. 30	0. 44	·1128	5. 43	·01776	22. 0	48 ·5	50 ·5

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 13		Nov. 13		Nov. 13		h m	°	°
h m	° ′ ″	h m		h m				
2. 16	21. 35. 20	2. 22	·1129	9. 11	·01764			
2. 26	34. 0		***	12. 58	·01717			
2. 36	35. 30	3. 30	·1114	21. 11	·01906			
4. 37	31. 30	4. 0	·1119	23. 59	·01950			
5. 50	30. 40	4. 16	·1118					
6. 45	32. 10	5. 0:	·1123					
7. 26	30. 55	5. 51	·1118					
7. 45	28. 20	6. 25	·1121					
8. 11	25. 30	7. 18	·1117					
8. 15	30. 30	7. 30	·1112					
9. 7	17. 15	8. 9	·1119					
10. 22	27. 30	8. 30	·1099					
12. 40	29. 50	8. 42	·1104					
13. 14	28. 45	8. 46	·1099					
14. 27	30. 0	9. 14	·1117					
15. 59	30. 10	9. 40	·1118					
17. 11	28. 15	9. 45	·1114					
	***	10. 55	·1126					
18. 55	28. 30		***					
19. 15	27. 35	14. 12	·1128					
	***	17. 25	·1137					
21. 28	26. 30	18. 15	·1134					
21. 35	27. 0	19. 30:	·1134					
22. 58	31. 30		***					
23. 20	31. 15	22. 30	·1119					
23. 45	32. 30	23. 59	·1121					
23. 59	32. 30							
Nov. 14		Nov. 14		Nov. 14		Nov. 14		
0. 0	21. 32. 30		(†)	0. 0	·01950	8. 35	48 ·3	49 ·0
2. 8	31. 40	0. 47	·1124	2. 39	·01972	21. 0	45 ·5	47 ·0
3. 32	29. 20	2. 40	·1119	8. 22	·01980			
4. 0	29. 40	3. 25	·1124	12. 45	·01855			
4. 30	31. 15	3. 46	·1123	19. 27	·02277			
5. 14	31. 0	4. 14	·1127	23. 59	·02517			
6. 10	28. 30	4. 45	·1120					
9. 22	28. 30		***					
9. 39	26. 30	5. 45	·1126					
10. 22	28. 15	6. 15	·1132					
10. 55	27. 40	9. 30	·1128					
11. 30	29. 0	9. 55	·1131					
11. 43	28. 30	11. 54	·1133					
11. 52	28. 20	12. 15	·1144					
12. 13	25. 40	12. 55	·1133					
13. 15	28. 30	16. 40	·1137					
13. 30	28. 0	17. 45:	·1146					
14. 44	29. 50	19. 30	·1128					
16. 15	29. 30.	19. 45	·1129					
17. 23	32. 45	20. 35	·1122					
17. 55	31. 30	22. 6	·1110					
	***	23. 59	·1094					
19. 38	32. 30							
19. 55	30. 45							
20. 17	29. 55.							
	***							
22. 62	34. 15							
23. 22	37. 30							
23. 59	37. 0							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 15		Nov. 15		Nov. 15		Nov. 15		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 37. 0	0. 0	·1094	0. 0	·02517	1. 0	47 ·2	47 ·6
0. 30	35. 20	1. 40	·1106	2. 6	·02475	3. 0	49 ·6	49 ·0
0. 54	31. 15	2. 15	·1096	4. 13	·02276	9. 0	48 ·0	47 ·7
1. 42	33. 30	2. 52	·1102		·02470	21. 0	43 ·5	45 ·0
1. 45	34. 45	3. 25	·1100	6. 54	·02476			
2. 13	33. 20	3. 58	·1103	12. 15	·02727			
2. 54	34. 20	4. 40	·1086		·02644			
3. 12	32. 40	5. 10	·1104	21. 10	·02643			
3. 57	31. 55	5. 30	·1104		·02457			
4. 22	28. 30	5. 55	·1099	23. 59	·02478			
4. 30	28. 35	6. 55	·1114					
4. 43	26. 55	7. 40	·1118					
5. 12	30. 40	9. 15	·1115					
5. 39	30. 55	10. 0	·1118					
6. 0	29. 35	11. 0	·1114					
6. 12	30. 0	11. 40	·1118					
6. 24	29. 10	12. 0	·1127					
6. 57	30. 5	12. 30	·1128					
7. 14	29. 10	12. 54	·1124					
8. 45	29. 10	13. 39	·1127					
9. 25	26. 30	14. 25	·1124					
9. 36	28. 0	15. 0	·1132					
10. 12	28. 15	15. 31	·1134					
	***	15. 55	·1128					
10. 58	25. 20	16. 35	·1135					
	***	17. 45	·1129					
11. 32	26. 15	18. 25	·1131					
11. 43	25. 0	19. 10	·1127					
11. 55	27. 30	19. 41	·1127					
12. 15	26. 35	22. 14	·1111					
12. 44	28. 15	22. 31	·1115					
12. 59	27. 30	23. 0	·1106					
13. 54	28. 0	23. 15	·1109					
14. 51	33. 35	23. 45	·1106					
15. 40	28. 50		(†)					
16. 0	30. 0							
16. 15	28. 40							
17. 2	28. 45							
17. 27	31. 30							
18. 0	32. 35							
18. 45	28. 10							
19. 1	28. 30							
19. 28	27. 35							
21. 6	27. 20							
21. 40	29. 10							
22. 15	29. 25							
22. 45	32. 30							
23. 0	31. 30							
23. 22	33. 30							
23. 59	33. 30							
Nov. 16		Nov. 16		Nov. 16		Nov. 16		
0. 0	21. 33. 30	0. 0	·1103	0. 0	·02478	1. 0	45 ·7	47 ·0
0. 14	35. 35	0. 20	·1093	1. 11	·02433	3. 0	48 ·0	49 ·6
0. 22	35. 20	0. 30	·1097	6. 22	·01973	9. 0	47 ·4	49 ·0
0. 39	36. 50	0. 55	·1092	10. 20	·01895	21. 0	45 ·0	46 ·2
1. 28	34. 0	1. 31	·1099	16. 26	·01970			
1. 41	35. 20	2. 8	·1093	22. 25	·02148			
1. 58	33. 45	2. 35	·1104	23. 59	·02149			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov.16		Nov.16		Nov.16				
h m	° ′ ″	h m		h m		h m	°	°
2. 27	21. 33. 30	3. 15	·1106					
2. 39	34. 10	4. 0	·1103					
2. 51	33. 0		***					
4. 5	30. 20	5. 16	·1104					
4. 43	30. 5	5. 44	·1111					
4. 55	31. 30	5. 55	·1102					
5. 13	31. 30	6. 14	·1102					
5. 43	28. 30	6. 53	·1116					
5. 48	28. 55	7. 39	·1111					
6. 35	19. 35	7. 55	·1114					
7. 19	25. 45	8. 10	·1111					
7. 42	25. 50	8. 30	·1115					
7. 57	27. 20	8. 51	·1112					
8. 10	27. 30	9. 45	·1120					
8. 26	25. 30		***					
8. 44	27. 0	11. 40	·1126					
9. 45	26. 30	12. 50	·1124					
10. 51	29. 20	14. 0	·1127					
14. 11	28. 50	14. 30	·1131					
14. 24	30. 0	17. 45	·1136					
14. 42	29. 15	20. 28	·1132					
20. 45	28. 20	20. 45	·1126					
	***	21. 55	·1114					
21. 57	30. 10	22. 21	·1120					
22. 10	31. 30	23. 7	·1110					
22. 14	31. 0	23. 59	·1114					
22. 25	32. 40							
22. 37	33. 10							
23. 12	33. 0							
23. 30	34. 20							
23. 59	34. 0							
Nov.17		Nov.17		Nov.17		Nov.17		
0. 0	21. 34. 0	0. 0	·1114	0. 0	·02149	1. 0	48 ·0	48 ·0
0. 31	33. 30	2. 15	·1107	1. 40	·02055	3. 0	50 ·0	50 ·0
0. 42	34. 0	2. 55	·1102	3. 28	·01856	9. 0	49 ·5	50 ·0
2. 0	31. 45	4. 50	·1117		·01949	21. 0	42 ·8	44 ·0
2. 15	31. 50	8. 30	·1126	5. 51	·01937			
3. 0	29. 50	11. 15	·1128	10. 21 :	·02063			
5. 45	28. 10	13. 15	·1133	13. 41	·02277			
9. 30	27. 50	13. 43	·1141	16. 58	·02577			
13. 30	30. 0	14. 10	·1134	21. 7	·02649			
13. 42	31. 0		***	23. 59	·02566			
14. 15	27. 0	14. 55	·1141					
14. 51	28. 50	16. 38	·1139					
15. 22	27. 25	17. 30	·1146					
15. 30	28. 45	20. 30	·1130					
15. 41	27. 45	21. 0	·1124					
15. 56	27. 25		(†)					
16. 10	28. 30	23. 45	·1114					
17. 7	28. 30	23. 59	·1117					
17. 15	27. 20							
17. 40	26. 30							
19. 12	28. 25							
19. 30	30. 10							
20. 10	30. 0							
21. 57	33. 20							
22. 24	32. 40							
22. 55	33. 30							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov.17								
h m	° ′ ″	h m		h m		h m	°	°
23. 22	21. 32. 20							
23. 29	32. 45							
23. 43	31. 55							
23. 52	32. 25							
	(†)							
Nov.18		Nov.18		Nov.18		Nov.18		
	(†)	0. 0	·1117	0. 0	·02566	1. 0	45 ·2	45 ·8
0. 7	21. 33. 50	1. 10	·1113	2. 10	·02467	3. 0	47 ·8	48 ·0
0. 21	35. 25	1. 15	·1107	7. 52 :	·01865	9. 0	47 ·8	48 ·0
0. 33	34. 20	1. 43	·1100	13. 40	·02093	21. 0	40 ·0	42 ·0
0. 41	35. 30	2. 8	·1102	18. 30	·02025			
0. 51	34. 20	3. 0	·1097		·02497			
1. 5	34. 45	3. 28	·1085	21. 52	·02626			
1. 41	32. 30	3. 45	·1095	23. 0	·02607			
2. 10	35. 30	4. 10	·1099	23. 59	·02625			
3. 10	33. 0		***					
3. 39	27. 30	5. 15	·1103					
4. 12	30. 45	6. 14	·1113					
4. 28	31. 20	6. 50	·1114					
4. 52	29. 45	7. 30	·1110					
5. 10	30. 40	7. 45	·1116					
5. 39	28. 15	7. 56	·1108					
6. 11	27. 35	8. 15	·1105					
7. 11	29. 30	8. 40	·1113					
7. 41	27. 20		***					
7. 52	23. 0	9. 55	·1113					
8. 39	25. 30	10. 15	·1120					
	***	10. 30	·1115					
10. 10	25. 55		***					
10. 18	27. 30	12. 5	·1115					
10. 53	22. 30		***					
11. 10	24. 20	12. 58	·1124					
11. 21	22. 30	13. 15	·1117					
	***	13. 30	·1125					
12. 3	22. 35		***					
12. 25	26. 20	15. 8	·1132					
12. 40	24. 10		***					
12. 55	26. 30	16. 0	·1128					
13. 12	22. 30	16. 24	·1140					
14. 0	30. 5	16. 30	·1134					
14. 15	27. 30	17. 24	·1130					
14. 40	29. 50		***					
15. 0	28. 45	18. 27	·1143					
15. 44	33. 45	18. 50	·1131					
15. 58	33. 30	20. 0	·1122					
16. 12	31. 50	20. 10	·1113					
16. 30	32. 30	20. 20	·1124					
16. 52	31. 40	20. 24	·1114					
17. 12	32. 35	21. 0	·1114					
17. 38	30. 40	22. 1	·1094					
18. 14	31. 0	22. 24	·1106					
18. 40	33. 30	23. 16	·1095					
18. 50	33. 25	23. 36	·1105					
19. 13	34. 30	23. 59	·1100					
19. 20	36. 35							
19. 38	36. 30							
19. 43	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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov.18								
h m	° ′ ″	h m		h m		h m	°	°
20. 0	21. 39. 20							
20. 11	37. 20							
20. 17	38. 55							
20. 44	33. 0							
21. 45	35. 20							
21. 58	33. 45							
22. 15	37. 35							
	***							
23. 56	39. 20							
	(†)							
Nov.19		Nov.19		Nov.19		Nov.19		
	(†)	0. 0	·1100	0. 0	·02625	1. 0	43 ·0	43 ·8
0. 7	21. 37. 45		***	2. 30	·02597	3. 0	45 ·8	45 ·8
	***	0. 53	·1095	5. 24	·02284	9. 0	46 ·0	46 ·0
0. 53	39. 30	1. 9	·1099	7. 10	·02153	21. 0	39 ·0	41 ·0
1. 28	39. 0	1. 40	·1095	10. 43	·02072			
1. 40	38. 15	1. 55	·1099	14. 15	·02243			
1. 52	40. 55	2. 15	·1084	19. 15	·02646			
2. 16	33. 50		***		·02567			
2. 40	30. 45	3. 10	·1097	21. 24	·02612			
3. 10	34. 35	3. 17	·1093		·02510			
3. 28	32. 40	3. 57	·1101	22. 47	·02520			
3. 43	33. 45	4. 3	·1098	23. 59	·02467			
4. 5	33. 20	4. 15	·1101					
4. 14	34. 0	4. 44	·1068					
4. 43	5. 15	5. 0	·1123					
5. 11	26. 35	5. 27	·1085					
5. 24	25. 30	5. 38	·1091					
5. 36	29. 0	5. 45	·1085					
5. 45	28. 0	6. 35	·1098					
6. 22	27. 30	6. 48	·1090					
6. 30	29. 20	7. 0	·1094					
6. 50	28. 45	7. 10	·1090					
7. 0	29. 30	7. 26	·1094					
7. 15	25. 30	7. 48	·1089					
7. 43	27. 20	8. 23	·1096					
8. 2	25. 30	8. 30	·1095					
8. 26	27. 20	8. 45	·1100					
8. 35	27. 5	9. 10	·1103					
8. 52	28. 20	9. 27	·1120					
9. 25	26. 0	9. 40	·1110					
9. 43	30. 0	9. 54	·1118					
9. 52	27. 20	10. 5	·1108					
10. 26	34. 40	10. 14	·1118					
10. 48	30. 40	10. 29	·1108					
11. 15	26. 20	11. 14	·1129					
11. 45	28. 50	11. 52	·1115					
12. 7	28. 30	12. 14	·1117					
12. 28	29. 30	12. 41	·1125					
13. 0	26. 55		***					
13. 11	27. 30	14. 0	·1131					
	***	14. 45	·1126					
14. 21	23. 30		***					
14. 38	26. 5	16. 0	·1131					
14. 53	26. 15		***					
15. 22	29. 0	17. 45	·1129					
15. 30	28. 10	18. 0	·1133					
15. 52	28. 55	18. 24	·1128					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov.19		Nov.19						
h m	° ′ ″	h m		h m		h m	°	°
16. 10	21. 27. 45	19. 0	·1135					
16. 21	30. 0	19. 30	·1129					
16. 38	30. 45		***					
17. 11	30. 0	20. 0	·1138					
17. 30	32. 10		***					
17. 45	30. 10	20. 30	·1136					
18. 25	32. 40	20. 55	·1128					
19. 15	30. 40	21. 30	·1129					
19. 26	28. 30	22. 10	·1124					
19. 29	30. 40		***					
	***	23. 59	·1114					
20. 25	31. 0							
	***							
20. 58	29. 10							
	***							
21. 32	30. 20							
21. 45	29. 10							
23. 13	23. 0							
23. 44	32. 0							
23. 52	32. 40							
23. 59	32. 30							
Nov.20		Nov.20		Nov.20		Nov.20		
0. 0	21. 32. 30	0. 0	·1114	0. 0	·02467	1. 0	44 ·0	45 ·0
0. 12	31. 50	1. 13	·1108	1. 54	·02220	3. 0	45 ·7	45 ·7
0. 18	33. 40	1. 41	·1115	4. 52	·01713	9. 0	46 ·0	47 ·0
0. 38	34. 30	2. 37	·1107	7. 36	·01672	22. 30	41 ·0	41 ·7
1. 13	32. 30	3. 47	·1115	10. 53	·01680			
1. 40	34. 0		***	13. 43	·01772			
1. 45	33. 5	4. 52	·1115	23. 59	·02323			
2. 13	33. 40	4. 58	·1105					
2. 39	31. 45	5. 10	·1110					
2. 53	32. 25	5. 14	·1106					
4. 40	30. 40		***					
4. 52	31. 45	6. 0	·1120					
5. 15	28. 30		***					
7. 12	31. 0	7. 20	·1119					
7. 50	20. 45	7. 36	·1108					
8. 0	20. 20	7. 53	·1116					
8. 21	22. 55	8. 5	·1103					
8. 40	30. 0	8. 15	·1105					
9. 10	27. 50	8. 28	·1115					
9. 15	28. 20	8. 44	·1110					
9. 43	26. 30	9. 0	·1116					
10. 0	29. 45	9. 10	·1113					
10. 22	29. 35	9. 33	·1113					
10. 36	31. 20	9. 55	·1119					
11. 0	30. 5	10. 7	·1117					
11. 33	30. 0	10. 18	·1121					
12. 0	31. 20	10. 30	·1117					
15. 28	31. 55		***					
20. 39	29. 30	11. 33	·1125					
	***	13. 30	·1126					
23. 45	33. 20	16. 55	·1134					
23. 59	33. 15	19. 20	·1130					
		21. 20	·1122					
		22. 30	·1124					
		23. 59	·1125					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	21. 33. 15	0. 0	·1125	0. 0	·02323	7. 35	44 ·0	45 ·5
0. 14	32. 55	2. 0	·1125	2. 0:	·02357	21. 0	40 ·0	42 ·0
1. 7	33. 30	6. 25	·1134	7. 11	·02096			
1. 15	32. 40	7. 43	·1134	11. 3	·02032			
3. 37	30. 50	8. 2	·1130	15. 10:	·02156			
5. 24	29. 0	8. 24	·1131	19. 30	{·02396			
7. 44	28. 30	8. 42	·1123		{·02322			
8. 30	29. 45	9. 30:	·1131	22. 4	·02412			
8. 52	26. 45	11. 45	·1127	23. 59	·02367			
9. 10	26. 50	12. 15	·1131					
9. 43	29. 30	12. 40	·1133					
10. 40	29. 35	13. 24	·1128					
10. 51	28. 0	16. 40	·1136					
12. 0	30. 30	17. 25	·1139					
12. 22	28. 5	18. 30	·1132					
13. 12	30. 0	18. 47	·1134					
13. 23	29. 30	19. 24	·1147					
13. 52	28. 0	20. 13	·1140					
14. 45	31. 25	21. 10	·1122					
15. 43	31. 30	23. 59	·1113					
16. 14	29. 25							
17. 19	28. 30							
18. 42	32. 10							
19. 30	29. 10							
19. 52	30. 40 ***							
20. 42	30. 15 ***							
21. 44	32. 25							
21. 59	31. 30							
22. 40	33. 40							
22. 58:	32. 30							
23. 30	34. 40							
23. 48	33. 40							
23. 59	34. 0							
Nov. 22		Nov. 22		Nov. 22		Nov. 22		
0. 0	21. 34. 0	0. 0	·1113	0. 0	·02367	1. 0	44 ·0	44 ·6
0. 44	36. 20	0. 45	·1114	1. 40	·02195	3. 0	47 ·5	47 ·8
1. 15	34. 35	1. 10	·1110	3. 43	{·01766	9. 6	47 ·3	47 ·8
1. 41	35. 30	2. 5	·1110		{·01862	21. 0	37 ·8	40 ·0
2. 43	31. 25	3. 5	·1116	7. 50	·01700			
3. 14	32. 10	3. 44	·1108	11. 52:	·01872			
3. 45	29. 50	4. 30	·1115	18. 22	{·02696			
5. 58	28. 30	5. 14	·1116		{·02633			
7. 14	29. 30	5. 35	·1113	21. 7	{·02637			
8. 10	28. 30	6. 0	·1115		{·02552			
	***	8. 35	·1118	23. 59	·02666			
10. 12	28. 20 ***	13. 7	·1129					
		18. 15:	·1141					
14. 19	32. 15 ***	21. 28	·1136					
		21. 55	·1133 ***					
19. 59	30. 10							
21. 6	29. 30	23. 13	·1129					
21. 43	29. 55	23. 59	·1129					
21. 55	29. 20							
22. 16	31. 0							
23. 11	31. 30							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 22								
h m	° ′ ″	h m		h m		h m	°	°
23. 45	21. 32. 35							
23. 59	32. 25							
Nov. 23		Nov. 23		Nov. 23		Nov. 23		
0. 0	21. 32. 25	0. 0	·1129	0. 0	·02666	1. 0	40 ·3	41 ·8
0. 25	31. 45		***	0. 45	·02646	3. 0	43 ·0	43 ·6
0. 40	33. 30	1. 40	·1130	7. 28:	·02023	9. 0	43 ·0	42 ·5
0. 51	32. 20	1. 51	·1123	16. 28	{·02657	21. 0	34 ·5	37 ·0
1. 14	33. 20	2. 30	·1126		{·02603			
1. 20	32. 0	2. 45	·1122	19. 22	{·02666			
1. 40	33. 10	3. 10	·1130		{·02596			
1. 49	31. 30	3. 55	·1125	20. 28	·02675			
2. 29	31. 55	5. 30	·1128	22. 58	·02719			
2. 40	30. 45 ***	6. 15	·1126	23. 59	·02699			
		6. 45	·1133					
3. 24	31. 15	7. 23	·1131					
4. 42	39. 30	8. 57	·1133					
6. 44	30. 0	9. 45	·1131					
7. 12	31. 10	10. 43	·1136					
7. 41	30. 15 ***	11. 0	·1131					
		11. 34	·1134					
13. 55	30. 0	11. 51	·1138					
14. 26	31. 20	12. 15	·1134 ***					
14. 50	30. 40 ***	13. 6	·1133 ***					
17. 13	30. 40							
18. 7	29. 35 ***	14. 40	·1142					
		15. 15	·1139					
20. 25	30. 40	16. 55	·1147					
20. 50	29. 50	18. 25	·1146					
22. 43	30. 15	21. 55	·1142					
22. 58	32. 35	22. 47	·1140					
23. 12	30. 50 ***	23. 0	·1146					
		23. 14	·1138 ***					
23. 29	32. 30 ***	23. 59	·1131					
23. 59	31. 50							
Nov. 24		Nov. 24		Nov. 24		Nov. 24		
0. 0	21. 31. 50	0. 0	·1131	0. 0	·02699	1. 0	38 ·0	39 ·0
0. 40	32. 30 ***	2. 39	·1125	1. 36	·02597	3. 0	41 ·0	42 ·0
		3. 26	·1130	6. 10	·01900	9. 0	44 ·0	44 ·0
1. 6	31. 0	4. 12	·1127	7. 55	·01722	21. 0	43 ·0	44 ·0
1. 39	31. 45	5. 25	·1131	11. 30	·01673			
2. 54	29. 30	5. 40	·1129	21. 28	·01694			
3. 14	30. 15 ***	5. 58	·1131	23. 59	·01778			
		6. 48	·1127					
4. 0	29. 50	7. 0	·1130					
4. 15	28. 40	7. 40	·1130					
4. 30	29. 10	8. 10	·1139					
5. 0	28. 20	8. 45	·1128					
5. 28	28. 45	9. 5	·1132					
6. 0	28. 10	9. 24	·1128					
6. 19	28. 30	10. 1	·1127					
7. 0	27. 30	10. 38	·1132					
7. 39	27. 45	11. 40	·1125					
8. 0	22. 30	12. 55	·1125					
8. 36	26. 30	13. 11	·1129					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich 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	°	°
8. 44	21. 25. 30	14. 44	·1132					
9. 10	27. 30	16. 52	·1135					
10. 30	25. 0	17. 45	·1133					
11. 16	26. 0	18. 12	·1137					
11. 44	24. 40	18. 35	·1133					
12. 30	26. 10	19. 7	·1137					
12. 55	24. 30	19. 45	·1133					
13. 43	27. 0	20. 0	·1136					
14. 6	26. 45	20. 14	·1134					
15. 13	28. 30	20. 45	·1136					
16. 45	28. 10	21. 45	·1124					
17. 12	29. 20	23. 59	·1121					
17. 16	29. 0							
17. 40	30. 50							
18. 10	29. 0							
18. 59	30. 50							
19. 12	30. 5							
	***							
21. 39	31. 30							
21. 57	30. 40							
22. 43	31. 20							
23. 12	33. 20							
23. 32	31. 30							
23. 45	32. 0							
23. 58	33. 30							
Nov.25		Nov.25		Nov.25		Nov.25		
	(†)	0. 0	·1120	0. 0	·01778	1. 0	47 ·0	47 ·0
0. 11	21. 32. 15	1. 0	·1113	3. 28	·01917	3. 0	49 ·0	49 ·3
0. 39	34. 5	1. 44	·1113	12. 7	·01886	9. 0	51 ·5	52 ·0
0. 59	34. 0	2. 30	·1109	23. 45	·01952	21. 0	53 ·0	53 ·5
	***		***		(†)			
1. 44	35. 50	3. 0	·1103					
2. 32	32. 35	5. 40	·1120					
2. 51	33. 20	5. 53	·1117					
3. 14	30. 50	6. 22	·1121					
3. 36	32. 30		***					
4. 0	32. 20	11. 41	·1126					
4. 29	33. 20	11. 55	·1134					
5. 27	29. 50	12. 15	·1128					
5. 45	30. 0		***					
	***	14. 10	·1126					
8. 28	27. 30	17. 35	·1130					
10. 46	28. 30	18. 15	·1127					
11. 16	26. 15	19. 56	·1132					
11. 44	28. 0		***					
11. 55	26. 20	21. 35	·1126					
	(†)	23. 59	·1107					
22. 8	30. 0							
23. 27	31. 50							
23. 38	33. 40							
	(†)							
		Nov.26		Nov.26		Nov.26		
		0. 0	·1104		(†)	1. 0	56 ·0	56 ·0
		0. 35	·1104	0. 13	·01944	3. 0	58 ·0	58 ·7
		0. 57	·1098	3. 39	·02058	9. 0	58 ·0	58 ·5
		1. 25	·1102	6. 50	·02053	21. 0	53 ·0	53 ·8
		1. 40	·1095	11. 39	·02175			

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F Magnet.
		Nov.26		Nov.26				
h m	° ′ ″	h m		h m		h m	°	°
		2. 1	·1094	12. 12	·02166			
			***	14. 4	·02273			
		3. 0	·1108	15. 58	·02448			
		4. 0	·1089	23. 10	·02800			
		4. 30	·1100	23. 59	·02796			
		4. 40	·1104					
		5. 11	·1106					
		5. 24	·1102					
		5. 45	·1106					
		6. 10	·1112					
			***					
		7. 7	·1113					
		7. 46	·1102					
		8. 0	·1109					
		8. 14	·1101					
		8. 30	·1106					
		8. 42	·1103					
		9. 27	·1106					
		9. 56	·1115					
		10. 8	·1112					
		10. 22	·1117					
		10. 25	·1114					
		11. 15	·1121					
		11. 30	·1142					
		12. 0	·1119					
		12. 43	·1118					
		12. 55	·1123					
		13. 8	·1122					
		13. 25	·1126					
		14. 9	·1120					
			***					
		15. 30	·1124					
		16. 56	·1132					
		17. 25	·1126					
		17. 54	·1124					
		18. 30	·1130					
		18. 45	·1129					
		19. 25	·1134					
		21. 0	·1113					
		21. 55	·1100					
			***					
		22. 45	·1087					
		23. 20	·1101					
		23. 30	·1099					
		23. 45	·1102					
		23. 59	·1098					
Nov.27		Nov.27		Nov.27		Nov.27		
	(†)	0. 0	·1098	0. 0	·02796	1. 0	55 ·0	55 ·0
0. 33	21. 34. 0	3. 5	·1096	3. 28	·02600	3. 0	56 ·5	56 ·4
1. 9	34. 30		***	10. 0:	·02207	9. 0	56 ·0	57 ·0
1. 44	33. 5	4. 58	·1098	16. 53	·02363	22. 20	53 ·1	54 ·8
2. 31	31. 50	5. 14	·1102	23. 59	·02484			
2. 44	32. 30		***					
3. 45	31. 30	6. 30	·1101					
4. 30	27. 50	6. 55	·1108					
	***	7. 16	·1106					
6. 0:	31. 0	7. 50	·1114					

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

November 25. The Declination Magnet was in contact with some portion of its apparatus from 12h to 22h; the results therefore are not trustworthy and are omitted.

November 26. The Declination Magnet was in contact with some part of its apparatus; the results therefore are not considered worthy of confidence.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov.27		Nov.27						
h m	° ′ ″	h m		h m		h m	°	°
6. 41	21. 26. 30	10. 11	·1120					
6. 52	27. 0	10. 39	·1128					
7. 17	30. 10	10. 54	·1120					
7. 43	28. 25	11. 13	·1130					
8. 0	28. 50	11. 38	·1118					
10. 10	27. 50	12. 25	·1118					
10. 50	23. 20	13. 0	·1124					
11. 22	26. 30	14. 20	·1121					
11. 41	25. 30		***					
12. 0	26. 55	17. 45	·1129					
12. 32	26. 45	18. 15	·1126					
13. 31	29. 35	21. 30	·1124					
13. 50	29. 10	23. 59	·1107					
14. 55	30. 5							
15. 40	28. 30							
16. 9	29. 55							
16. 27	29. 5							
17. 12	29. 55							
21. 14	28. 20							
23. 59	33. 50							
Nov.28		Nov.28		Nov.28		Nov.28		
0. 0	21. 33. 50	0. 0	·1107	0. 0	·02484	8. 25	53 ·2	54 ·5
0. 35	35. 5	1. 45:	·1119	1. 40	·02482	21. 0	52 ·0	52 ·5
1. 5	33. 20	3. 20	·1114	6. 22:	·02378			
2. 2	33. 50	3. 30	·1109	11. 37	·02553			
2. 50	32. 20	3. 44	·1109	16. 29	·02797			
2. 58	32. 30	5. 0:	·1125	21. 6	·02890			
3. 45	30. 20	7. 45	·1126	23. 59	·02852			
4. 36	31. 20	9. 15	·1127					
5. 59	30. 0	10. 42	·1130					
6. 52	30. 20	11. 8	·1128					
7. 59	29. 20	11. 24	·1143					
10. 35	30. 45	11. 38	·1138					
10. 56	29. 50	11. 57	·1143					
11. 29	31. 10	12. 21	·1129					
12. 6:	24. 0		***					
12. 22	24. 30	13. 15	·1126					
12. 50	27. 35		***					
13. 14	26. 50	16. 40	·1132					
14. 0	28. 30	18. 45	·1129					
14. 33	28. 5	21. 30	·1129					
15. 10	29. 20	21. 55	·1154					
	***		***					
18. 21	27. 55	23. 59	·1113					
21. 45	31. 20							
22. 28	33. 20							
	***							
23. 59	33. 45							
Nov.29		Nov.29		Nov.29		Nov.29		
0. 0	21. 33. 45	0. 0	·1113	0. 0	·02852	1. 0	54 ·2	54 ·5
0. 30	33. 30	2. 18	·1111	2. 25	·02620	3. 0	56 ·3	56 ·2
0. 44	33. 50	3. 0	·1106	7. 55:	·02070	9. 0	56 ·2	56 ·5
1. 30	32. 30	5. 0	·1114	12. 30	·02177	21. 0	52 ·0	53 ·0
2. 16	32. 55	6. 55	·1112	22. 25	·02525			
2. 52	31. 45	7. 15	·1116	23. 59	·02554			
5. 16	30. 0	10. 10	·1120					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov.29		Nov.29						
h m	° ′ ″	h m		h m		h m	°	°
10. 30	21. 29. 30	15. 15	·1127					
14. 55	30. 30	17. 45	·1128					
16. 40	29. 20	20. 40	·1124					
21. 27	29. 30	21. 45	·1116					
23. 12	33. 10	23. 59	·1115					
23. 59	33. 25							
Nov.30		Nov.30		Nov.30		Nov.30		
0. 0	21. 33. 25	0. 0	·1115	0. 0	·02554	1. 0	53 ·0	53 ·6
0. 49	33. 50	0. 30	·1116	2. 0	·02550	3. 0	54 ·8	54 ·5
1. 13	32. 30		***	6. 22	·02273	9. 0	53 ·7	53 ·0
5. 26	27. 55	1. 6	·1109	11. 45	·02447	21. 0	50 ·0	51 ·0
5. 47	28. 40	2. 0	·1113	15. 30	·02679			
6. 59	27. 30	3. 15	·1110	18. 40	·02766			
7. 52	28. 30	5. 45	·1110	23. 59	·02830			
11. 13	27. 50	6. 47	·1117					
14. 40	30. 0	15. 50	·1134					
15. 30	28. 45	18. 40:	·1136					
18. 15	28. 20	22. 6	·1124					
21. 12	29. 10	23. 59	·1117					
22. 29	33. 5							
23. 59	32. 40							
Dec. 1		Dec. 1		Dec. 1		Dec. 1		
0. 0	21. 32. 40	0. 0	·1117	0. 0	·02830	1. 0	52 ·0	52 ·0
0. 30	32. 30	0. 30	·1119	1. 36	·02776	3. 0	53 ·8	53 ·4
1. 0	33. 20	1. 48	·1121	6. 44:	·02266	9. 0	53 ·0	53 ·0
4. 11	32. 20	2. 45	·1119	9. 2	·02296	21. 0	51 ·8	52 ·0
4. 52	30. 30	3. 55	·1121	12. 12	·02392			
	***	4. 10	·1118	12. 36	·02280			
7. 40	31. 20	5. 7	·1123	14. 10	·02420			
8. 30	11. 35	5. 50	·1122	23. 59	·02360			
9. 4	26. 30		***					
9. 22	27. 20	7. 36	·1113					
9. 52	25. 0	8. 4	·1106					
10. 28	27. 45	8. 35	·1136					
10. 55	27. 30	9. 9	·1100					
11. 10	28. 10	9. 50	·1116					
11. 58	26. 50	11. 12	·1126					
12. 14	23. 50	11. 28	·1123					
12. 41	21. 0	12. 10	·1129					
12. 53	23. 30	13. 8	·1118					
13. 39	26. 30	14. 6	·1127					
13. 52	26. 15	14. 30	·1124					
14. 7	28. 10	14. 44	·1129					
14. 26	24. 35	15. 20	·1126					
14. 36	24. 30		***					
14. 44	26. 30	17. 0	·1128					
15. 24	26. 0	17. 28	·1132					
15. 36	27. 30	18. 15	·1128					
	***		***					
17. 0	27. 30	21. 25	·1127					
17. 50	28. 30	21. 55	·1121					
	***	23. 59	·1111					
21. 12	28. 0							
21. 44	31. 0							
22. 7	30. 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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V.F. Magnet.
Dec. 1								
h m	° ′ ″	h m		h m		h m	°	°
22. 45	21. 31. 30							
23. 59	33. 15							
Dec. 2		Dec. 2		Dec. 2		Dec. 2		
0. 0	21. 33. 15	0. 0	·1111	0. 0	·02360	1. 0	54 ·0	54 ·3
1. 11	33. 20	1. 35	·1115	1. 30	·02260	3. 0	56 ·0	56 ·0
1. 31	34. 20	2. 30	·1114	3. 54	·01947	9. 0	55 ·0	55 ·0
2. 42	32. 30	4. 9	·1114		·02046	21. 0	47 ·0	48 ·0
3. 15	32. 30	8. 31	·1126	8. 20	·01937			
4. 40	29. 55		***	10. 24	·02000			
8. 50	29. 50	9. 30	·1121	12. 24	·02156			
9. 12	28. 0	10. 0	·1120	15. 36	·02496			
9. 52	28. 30	10. 14	·1114	19. 16	·02977			
10. 15	26. 10		***		·02940			
10. 51	28. 30	11. 50	·1128	21. 11	·02954			
10. 56	27. 55	13. 25	·1131		·02880			
11. 31	30. 30	15. 0	·1136	22. 0	·02896			
11. 44	29. 50	19. 30	·1132		·02766			
13. 44	30. 55	20. 0	·1136	23. 59	·02763			
15. 45	30. 30	21. 30	·1136					
16. 52	29. 15		***					
17. 11	29. 35	23. 55	·1138					
17. 29	29. 0		(†)					
17. 57	30. 15							
20. 28	29. 35							
21. 27	29. 0							
22. 10	30. 20							
23. 14	34. 35							
23. 24	33. 30							
23. 44	33. 40							
23. 51	35. 30							
23. 59	34. 30							
Dec. 3		Dec. 3		Dec. 3		Dec. 3		
0. 0	21. 34. 30		(†)	0. 0	·02763	1. 0	49 ·0	49 ·5
	***	0. 7	·1131	1. 30	·02715	3. 0	52 ·0	52 ·2
0. 50	34. 30	0. 55	·1120	5. 43	·01955	9. 0	54 ·0	54 ·0
1. 15	36. 0	1. 29	·1125	11. 30	·01892	21. 0	53 ·0	53 ·0
2. 44	31. 30	2. 7	·1118	15. 16	·01900			
3. 21	32. 15	4. 36	·1124	16. 28	·01877			
4. 51	30. 5	6. 0	·1128	18. 15	·01897			
6. 7	30. 0	6. 16	·1122	23. 59	·01937			
6. 30	27. 10		***					
6. 40	27. 35	7. 7	·1131					
6. 52	26. 45		***					
7. 10	27. 30	8. 3	·1123					
7. 21	26. 10	9. 0	·1128					
7. 40	29. 30	15. 0	·1128					
7. 59	28. 10	15. 20	·1135					
8. 51	28. 30	15. 38	·1135					
13. 21	29. 30	16. 8	·1142					
	***	17. 6	·1129					
14. 51	28. 40	17. 24	·1132					
15. 28	32. 30	18. 15	·1127					
16. 31	24. 30	18. 45	·1128					
17. 10	27. 30	19. 17	·1127					
17. 36	27. 15	19. 54	·1129					
18. 21	28. 30	21. 45	·1126					
	***	23. 59	·1114					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V.F. Magnet.
Dec. 3								
h m	° ′ ″	h m		h m		h m	°	°
21. 14	21. 28. 30							
	***							
23. 32	33. 35							
23. 59	32. 50							
Dec. 4		Dec. 4		Dec. 4		Dec. 4		
0. 0	21. 32. 50	0. 0	·1114	0. 0	·01937	1. 0	54 ·0	54 ·0
0. 28	33. 30	0. 42	·1121	1. 52	·01967	3. 0	56 ·0	55 ·0
4. 0	31. 15	4. 16	·1120		·02053	9. 0	56 ·0	56 ·2
	***	4. 20	·1137	7. 14	·02018	22. 45	51 ·0	51 ·8
5. 21	34. 45		***	9. 22	·02095			
	***	5. 0	·1134	10. 26	·02090			
6. 7	31. 0	5. 19	·1138	10. 55	·02117			
	***	5. 30	·1128	11. 13	·02023			
6. 42	33. 15		***	11. 17	·02057			
6. 57	31. 30	6. 42	·1132	11. 30	·02040			
	***	6. 45	·1120		·02092			
7. 15	34. 0	6. 55	·1128	11. 54	·01988			
7. 27	33. 0	7. 0	·1123	12. 19	·02040			
7. 44	34. 10	7. 4	·1130	13. 51	·01947			
8. 11	33. 55	7. 8	·1118	14. 55	·02017			
8. 30	29. 20	7. 15	·1125	15. 13	·01980			
8. 36	32. 50	7. 18	·1114	15. 45	·02047			
9. 2	12. 5	7. 46	·1111	16. 16	·01957			
9. 12	18. 30	8. 9	·1118	16. 25	·02016			
9. 15	15. 0	8. 22	·1108	16. 36	·01940			
9. 51	22. 0	8. 30	·1096	16. 58	·02022			
10. 4	20. 45	8. 32	·1099	17. 42	·01973			
10. 22	24. 0	8. 44	·1078	18. 40	·02120			
10. 43	19. 50	8. 55	·1078	19. 15	·02227			
10. 51	21. 5	9. 10	·1105	22. 27	·02615			
11. 1	19. 30	9. 20	·1080	23. 59	·02838			
11. 10	8. 30	9. 30	·1095					
11. 45	41. 0	10. 5	·1077					
11. 58	12. 15	10. 15	·1081					
12. 28	23. 45		***					
12. 39	21. 30	10. 43	·1072					
12. 45	21. 45	10. 53	·1084					
13. 1	18. 30	11. 0	·1082					
13. 11	19. 5	11. 10	·1122					
13. 22	17. 30	11. 16	·1085					
13. 40	21. 35	11. 21	·1114					
13. 58	8. 45	11. 30	·1085					
14. 13	13. 30	11. 47	·1131					
14. 24	12. 30	12. 5	·1046					
14. 42	17. 5	12. 24	·1096					
14. 51	13. 45	12. 38	·1081					
15. 7	7. 10	12. 53	·1087					
15. 15	6. 30	12. 58	·1095					
15. 43	22. 30	13. 11	·1098					
16. 12	40. 40	13. 30	·1086					
16. 30	32. 30	13. 50	·1061					
16. 52	38. 30	14. 10	·1071					
17. 7	41. 45	14. 21	·1066					
17. 22	41. 20	14. 34	·1073					
17. 36	35. 0	14. 44	·1071					
18. 0	41. 35	14. 59	·1095					
18. 12	37. 50	15. 13	·1087					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 4		Dec. 4						
h m	° ′ ″	h m		h m		h m	°	°
18. 23	21. 38. 35	15. 35	·1104					
18. 36	32. 20	15. 50	·1124					
18. 53	48. 40	16. 3	·1129					
19. 0	50. 30	16. 12	·1098					
	***	16. 24	·1118					
20. 11	35. 30	16. 35	·1089					
	***	16. 55	·1112					
21. 11	32. 0	17. 7	·1104					
	***	17. 24	·1098					
21. 53	33. 20	17. 29	·1104					
	***	17. 43	·1086					
22. 40	37. 30	17. 53	·1091					
23. 7	32. 50	18. 10	·1076					
23. 59	30. 20	18. 30	·1094					
		18. 45	·1070					
		19. 2	·1092					
		19. 7	·1086					
		19. 25	·1093					
		19. 30	·1089					
		20. 5	·1104					
			***					
		21. 15	·1085					
		21. 41	·1074					
		22. 15	·1050					
		22. 34	·1064					
		22. 47	·1071					
		23. 59	·1071					
Dec. 5		Dec. 5		Dec. 5		Dec. 5		
0. 0	21. 30. 25	0. 0	·1071	0. 0	·02838	6. 43	50 ·0	51 ·0
0. 38	36. 30	0. 25	·1088	2. 0	·03057	21. 0	44 ·8	46 ·0
0. 45	33. 40	0. 40	·1084	5. 16	·02977			
1. 5	34. 30	1. 46	·1080	9. 37	·02967			
	***	1. 8	·1097	12. 54	·03073			
1. 52	27. 30	1. 15	·1090	18. 0	{·03077			
2. 30	28. 35	1. 30	·1090		{·02976			
2. 44	30. 40	1. 53	·1087	23. 59	·03018			
3. 15	28. 15	2. 16	·1100					
3. 40	30. 40	2. 29	·1097					
3. 50	30. 25	2. 55	·1105					
4. 0	32. 0	3. 14	·1099					
4. 15	30. 55	3. 27	·1105					
4. 53	37. 0		***					
5. 15	45. 30	4. 0	·1105					
5. 28	37. 25	4. 15	·1097					
5. 58	33. 40	4. 53	·1112					
7. 40	31. 45	5. 0	·1109					
7. 54	32. 50	5. 12	·1113					
8. 43	29. 35	5. 28	·1082					
9. 22	31. 50		***					
9. 45	31. 15	6. 12	·1096					
12. 40	34. 55		***					
13. 12	37. 30	6. 45	·1094					
14. 45	33. 30	7. 30:	·1100					
15. 15	34. 5	8. 5	·1096					
15. 46	32. 30	9. 10	·1108					
16. 40	32. 15	9. 30	·1108					
17. 31	33. 20	10. 24	·1114					
18. 10	31. 20	11. 0	·1111					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 5		Dec. 5						
h m	° ′ ″	h m		h m		h m	°	°
19. 24	21. 28. 30	11. 55	·1113					
21. 0	28. 20	12. 8	·1118					
23. 59	31. 0	13. 12	·1110					
			***					
		15. 40	·1116					
		16. 30	·1121					
		17. 30	·1117					
		18. 20	·1120					
		19. 35	·1121					
		21. 4	·1115					
		22. 30:	·1103					
		23. 52	·1105					
			(†)					
Dec. 6		Dec 6.		Dec. 6		Dec. 6		
0. 0	21. 30. 55	0. 0	·1102	0. 0	·03018	1. 0	45 ·0	46 ·5
0. 28	31. 0		***	3. 0	·02953	3. 0	47 ·0	47 ·5
0. 37	32. 0	3. 0	·1109	5. 31:	·02750	21. 0	43 ·8	45 ·0
	***	3. 45	·1112	9. 24	·02672			
2. 24	31. 20	5. 0	·1118	13. 10	·02687			
4. 42	29. 35	5. 53	·1115	17. 44	·02807			
4. 58	28. 30	6. 15	·1119	21. 11	{·02973			
6. 30	27. 30	9. 0	·1128		{·02920			
6. 58	29. 10		***	23. 59	·02955			
7. 21	28. 30	13. 40	·1131					
9. 45	28. 0	17. 25	·1136					
15. 26	31. 30	20. 40	·1136					
19. 45	29. 5	21. 30	·1127					
21. 28	28. 0	22. 25	·1120					
22. 22	28. 20		***					
23. 59	29. 50	23. 59	·1116					
Dec. 7		Dec. 7		Dec. 7		Dec. 7		
0. 0	21. 29. 50	0. 0	·1115	0. 0	·02955	1. 0	45 ·2	46 ·0
1. 21	31. 45	3. 35	·1117	2. 0:	·02847	3. 0	47 ·5	48 ·0
1. 30	31. 0	3. 40	·1113	7. 10:	·02290	9. 0	48 ·0	48 ·5
1. 56	31. 30		***	11. 45	·02177	21. 0	45 ·8	47 ·0
	***	4. 41	·1123	14. 51	·02172			
8. 56	28. 10	5. 0	·1120	21. 49	·02287			
11. 10	28. 45	6. 20	·1126	23. 59	·02098			
13. 7	29. 30	6. 40	·1125					
14. 31	31. 20	8. 4	·1129					
15. 8	30. 0	8. 14	·1126					
15. 31	30. 45	9. 59	·1129					
15. 50	29. 55	14. 14	·1128					
19. 47	29. 30	15. 25	·1132					
21. 26	22. 30	15. 40	·1130					
22. 52	29. 0	19. 45:	·1133					
23. 59	30. 30	23. 0	·1115					
		23. 59	·1114					
Dec. 8		Dec. 8		Dec. 8		Dec. 8		
0. 0	21. 30. 30	0. 0	·1114	0. 0	·02098	1. 0	48 ·0	48 ·0
1. 22	31. 20	1. 15	·1119	1. 5	·02057	3. 0	50 ·0	51 ·0
4. 15	28. 45	4. 20	·1115	3. 12	{·01852	9. 0	49 ·0	49 ·8
6. 12	28. 20	6. 14	·1119		{·01937	21. 0	46 ·0	47 ·2
7. 31	28. 40	6. 24	·1124	7. 43	·01872			
7. 50	27. 10	7. 30	·1122	10. 36	·01869			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 8		Dec. 8		Dec. 8				
h m	° ′ ″	h m		h m		h m	°	°
8. 12	21. 28. 40	7. 45	·1118	14. 44	·01935			
8. 44	27. 40	8. 10	·1120	23. 59	·02244			
13. 10	29. 0	8. 35	·1117					
13. 45	27. 35	9. 20	·1124					
14. 15	29. 30	12. 53	·1128					
14. 43	28. 20	13. 44	·1131					
19. 26	28. 30	15. 15	·1128					
21. 15	27. 0	16. 45	·1132					
23. 59	30. 45	21. 9:	·1131					
		22. 15	·1123					
		22. 55	·1121					
		23. 11	·1125					
		23. 35	·1120					
		23. 59	·1116					
Dec. 9		Dec. 9		Dec. 9		Dec. 9		
0. 0	21. 30. 45	0. 0	·1116	0. 0	·02244	1. 0	48 ·5	48 ·8
	***		***	1. 26	·02150	3. 0	50 ·0	51 ·0
3. 11	30. 40	3. 15	·1123	3. 45	·01886	9. 18	51 ·0	51 ·0
4. 45	28. 30	4. 44	·1119	8. 39	·01330	21. 0	47 ·0	48 ·0
8. 0	28. 20	6. 30	·1127	11. 22	·01837			
9. 22	27. 30	7. 16	·1122	21. 30	·02084			
10. 17	28. 40	7. 42	·1125	23. 59	·02246			
11. 11	27. 30	10. 0	·1126					
11. 51	29. 35	11. 0	·1128					
13. 15	30. 15	11. 42	·1136					
20. 39	28. 40	12. 30	·1130					
23. 14	30. 25	15. 10	·1131					
23. 59	29. 20	18. 54	·1140					
		21. 15:	·1138					
		23. 20	·1124					
		23. 59	·1117					
Dec. 10		Dec. 10		Dec. 10		Dec. 10		
0. 0	21. 29. 20	0. 0	·1117	0. 0	·02246	1. 0	48 ·0	48 ·3
0. 13	30. 20	0. 14	·1119	2. 20	·02170	3. 0	50 ·0	51 ·0
	***	1. 15	·1114	4. 22	·02046	9. 0	49 ·0	49 ·0
2. 18	31. 30	2. 17	·1120		·02262	21. 0	43 ·5	45 ·0
2. 30	30. 0	2. 30	·1115	8. 6	·02233			
2. 43	31. 10	3. 5	·1120	10. 30	·02275			
	***	3. 45	·1115	12. 52	·02376			
5. 4	28. 50	4. 0	·1117	19. 37	·02786			
5. 30	30. 30	5. 24	·1113	23. 54	·02942			
5. 52	29. 0	6. 25	·1105		(†)			
6. 28	31. 45	7. 45	·1119					
7. 0	31. 0	8. 7	·1116					
7. 40	27. 40	8. 24	·1120					
7. 52	27. 50	8. 55	·1123					
8. 18	25. 20	9. 57	·1120					
8. 30	23. 45	11. 5	·1126					
8. 49	26. 20	11. 20	·1124					
9. 15	25. 45	12. 25	·1127					
9. 51	26. 30	12. 40	·1131					
10. 18	22. 30	14. 7	·1129					
12. 2	27. 25	17. 28	·1137					
	***	19. 30	·1137					
12. 52	26. 30	23. 44	·1109					
13. 32	27. 40	23. 59	·1112					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 10								
h m	° ′ ″	h m		h m		h m	°	°
13. 54	21. 27. 30							
14. 28	28. 50							
15. 40	27. 55							
16. 32	28. 45							
18. 39	28. 35							
19. 12	30. 0							
21. 33	28. 35							
23. 43	32. 0							
23. 59	33. 40							
Dec. 11		Dec. 11		Dec. 11		Dec. 11		
0. 0	21. 33. 40	0. 0	·1111		(†)	1. 0	46 ·0	46 ·0
	***	1. 14	·1112	1. 0	·02093*	3. 0	48 ·0	49 ·0
1. 49	33. 20	1. 35	·1118	1. 30	·02064	9. 0	46 ·0	46 ·8
2. 30	33. 30		***	2. 45	·02058	22. 30	44 ·0	45 ·0
2. 58	32. 0	4. 45	·1106		·02195			
	***	5. 28	·1113	4. 33	·02087			
4. 42	33. 45	6. 7	·1102	6. 45	·02097			
4. 56	32. 0	6. 17	·1103	11. 39	·02030			
5. 27	30. 10	6. 24	·1109	19. 58	·02148			
6. 0	32. 20	6. 45	·1101	23. 59	·02226			
6. 29	27. 30	6. 55	·1109					
6. 35	29. 30	7. 3	·1106					
6. 43	28. 20	7. 47	·1122					
6. 58	28. 30		***					
7. 11	31. 10	10. 2	·1125					
7. 15	30. 30	10. 16	·1118					
7. 44	31. 20	10. 45	·1118					
8. 28	28. 40	11. 8	·1126					
8. 52	29. 10	11. 20	·1137					
9. 57	27. 10	11. 40	·1134					
10. 15	27. 50	11. 59	·1124					
10. 42	28. 30	15. 40	·1128					
11. 10	25. 30	16. 35	·1135					
11. 21	23. 30	19. 30	·1137					
11. 37	23. 40		***					
11. 45	21. 20	21. 54	·1134					
13. 40	27. 50	22. 1	·1127					
14. 10	27. 45	22. 11	·1133					
15. 11	28. 55	23. 9	·1121					
15. 29	30. 5	23. 59	·1127					
16. 13	29. 0							
16. 38	29. 40							
16. 58	29. 10							
	***							
21. 22	28. 30							
	***							
23. 30	33. 40							
23. 59	32. 45							
Dec. 12		Dec. 12		Dec. 12		Dec. 12		
0. 0	21. 32. 45	0. 0	·1127	0. 0	·02226	8. 30	43 ·0	44 ·3
0. 11	33. 5	1. 10	·1132	1. 39	·02269	21. 0	43 ·8	45 ·0
0. 30	32. 20	1. 30	·1129	2. 30	·02348			
0. 51	33. 55	1. 42	·1122	5. 34	·02422			
1. 32	34. 0	2. 26	·1123	6. 10	·02465			
2. 0	37. 30	2. 40	·1108	11. 11	·02362			
2. 12	36. 45	2. 47	·1111	20. 32	·02347			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 12		Dec. 12		Dec. 12				
h m	° ′ ″	h m		h m		h m	°	°
2. 20	21. 38. 10	3. 14	·1108	23. 59	·02142			
2. 40	30. 30	3. 39	·1123					
	***	3. 46	·1122					
3. 13	30. 30	4. 24	·1126					
3. 43	34. 30	5. 0	·1113					
3. 52	33. 0	5. 20	·1119					
4. 27	33. 30	5. 30	·1106					
4. 42	35. 0	5. 45	·1102					
5. 12	31. 15	6. 15	·1125					
5. 15	31. 20	7. 10	·1118					
5. 37	27. 0	7. 54	·1126					
5. 52	24. 30	8. 3	·1124					
6. 0	26. 30	8. 15	·1128					
6. 13	30. 20	8. 44	·1123					
7. 40	26. 15		***					
7. 53	27. 30	9. 15	·1129					
8. 25	24. 30	9. 30	·1127					
8. 52	25. 10	9. 40	·1129					
9. 4	23. 20	9. 48	·1126					
9. 43	17. 10	10. 30	·1142					
9. 52	18. 20	11. 0	·1130					
10. 8	18. 20		***					
10. 44	28. 5	11. 58	·1129					
11. 17	27. 0	12. 14	·1136					
12. 15	28. 55	12. 38	·1129					
12. 28	30. 40	12. 50	·1136					
12. 50	28. 20	13. 8	·1137					
13. 6	26. 20	13. 23	·1131					
13. 30	28. 40	13. 45	·1137					
13. 55	26. 40		***					
14. 43	31. 20	14. 40	·1133					
15. 29	28. 0	15. 25	·1144					
15. 55	27. 0	16. 26	·1146					
16. 36	32. 20	16. 45	·1139					
17. 11	32. 30	17. 25	·1139					
18. 0:	30. 0	17. 54	·1145					
18. 52	32. 30	18. 45	·1134					
	***	19. 30	·1128					
19. 50	30. 50	19. 53	·1119					
	***		***					
21. 56	31. 40	21. 7	·1123					
	***	21. 55	·1113					
22. 36	33. 45	23. 59	·1118					
	***							
23. 29	33. 30							
23. 59	34. 55							
Dec. 13		Dec. 13		Dec. 13		Dec. 13		
0. 0	21. 34. 55	0. 0	·1118	0. 0	·02142	1. 0	47 ·0	48 ·6
0. 35	37. 0	0. 25	·1118	1. 44	{·02167	3. 0	49 ·5	50 ·4
1. 12	32. 20	0. 53	·1090		{·02260	9. 0	51 ·5	52 ·0
1. 28	33. 15	1. 25	·1107	2. 29	·02106	21. 0	49 ·0	50 ·0
1. 32	36. 0	1. 34	·1102	4. 58	{·02120			
1. 45	34. 30	1. 45	·1112		{·02254			
1. 57	37. 20	1. 54	·1104	5. 36	·02209			
2. 14	34. 55	2. 5	·1102	6. 44	·02238			
2. 30	36. 30	2. 14	·1107	7. 2	·02187			
2. 54	34. 40	2. 54	·1108	8. 58	·02168			

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 13		Dec. 13		Dec. 13				
h m	° ′ ″	h m		h m		h m	°	°
3. 5	21. 35. 30	3. 9	·1101	12. 14	·02176			
3. 28	32. 10		***	17. 57	·02285			
	***	4. 22	·1103	19. 51	·02372			
4. 29	31. 50	4. 36	·1097	23. 18	·02550			
4. 46	28. 30		***		(†)			
5. 0	27. 20	5. 42	·1100	23. 50	·02436			
5. 13	28. 25	5. 55	·1104	23. 59	·02424			
5. 22	27. 40	6. 14	·1091					
5. 35	28. 55	6. 21	·1094					
5. 45	26. 30	6. 31	·1087					
5. 54	26. 45	6. 50	·1115					
6. 13	30. 20	6. 54	·1108					
6. 19	28. 0	7. 0	·1116					
6. 30	30. 5	7. 8	·1114					
6. 42	26. 40	7. 30	·1086					
6. 46	27. 5	7. 40	·1083					
6. 55	21. 50	7. 55	·1114					
6. 58	23. 30	8. 6	·1112					
7. 2	21. 25	8. 22	·1104					
7. 30	31. 55	8. 45	·1112					
8. 0	9. 30		***					
8. 28	25. 30	11. 35	·1113					
8. 40	24. 20	11. 58	·1126					
	***	12. 40	·1115					
9. 56	28. 15		***					
	***	15. 8	·1115					
10. 51	27. 45	15. 55	·1125					
11. 28	25. 30	16. 30	·1122					
11. 48	26. 0	17. 40	·1135					
11. 55	27. 30	18. 0	·1134					
12. 21	25. 30	18. 30	·1120					
12. 40	27. 45	19. 25	·1121					
13. 0	27. 15	19. 51	·1111					
13. 28	29. 30	20. 9	·1117					
13. 46	28. 30		***					
14. 27	30. 15	21. 30	·1104					
14. 44	39. 50	21. 55	·1110					
15. 11	31. 15		***					
15. 52	30. 30	23. 6	·1107					
16. 22	35. 30	23. 50	·1086					
16. 39	36. 20		(†)					
16. 53	32. 50							
17. 10	32. 15							
17. 30	33. 20							
17. 45	32. 45							
18. 52	36. 30							
19. 29	39. 20							
20. 4	33. 15							
	***							
20. 59	32. 45							
21. 34	30. 30							
21. 55	32. 30							
22. 44	33. 0							
23. 8	35. 30							
23. 26	35. 15							
23. 53	40. 0							
23. 59	39. 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.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V. F. Magnet.
Dec. 14		Dec. 14		Dec. 14		Dec. 14		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 39. 45	0. 0	·1087	0. 0	·02424	1. 0	50 ·8	50 ·8
	***	0. 30	·1100	2. 39	·02487	3. 0	50 ·0	51 ·0
2. 43	32. 30		***	2. 55	·02540	9. 0	50 ·5	51 ·0
2. 59	30. 40	1. 31	·1098	4. 22	·02500	21. 0	46 ·7	47 ·5
3. 42	28. 30		***	7. 52	·02460			
4. 7	30. 0	2. 15	·1106	12. 17	·02528			
4. 22	29. 15	3. 0	·1107	15. 25	·02540			
4. 49	31. 20	3. 31	·1101	16. 0	·02522			
5. 9	30. 10	4. 25	·1109	19. 30	·02520			
5. 15	30. 15	4. 40	·1106	23. 15	·02546			
5. 25	28. 20	6. 5	·1117	23. 59	·02548			
	***	6. 55	·1117					
6. 55	27. 45	7. 30	·1125					
7. 15	25. 30	8. 15	·1119					
7. 40	25. 30	9. 31	·1127					
8. 4	22. 50	9. 55	·1124					
8. 28	26. 15		***					
8. 43	23. 25	13. 50	·1127					
8. 58	28. 30		***					
9. 24	22. 30	15. 11	·1130					
9. 44	26. 30	15. 39	·1140					
10. 46	29. 10	16. 0	·1135					
11. 16	28. 30		***					
12. 28	29. 45	16. 46	·1135					
14. 0	29. 40	17. 20	·1139					
14. 27	28. 30	17. 46	·1136					
15. 0	28. 20	18. 59	·1140					
15. 18	31. 55	20. 0	·1123					
15. 31	29. 35	23. 45	·1109					
15. 44	29. 40	23. 59	·1119					
16. 10	26. 35							
16. 26	28. 30							
	***							
18. 10	28. 55							
19. 21	31. 20							
19. 52	30. 40							
20. 27	31. 0							
20. 43	30. 0							
	***							
22. 21	32. 45							
	***							
22. 58	31. 20							
23. 13	32. 30							
23. 29	31. 20							
	***							
23. 59	34. 15							
Dec. 15		Dec. 15		Dec. 15		Dec. 15		
0. 0	21. 34. 15	0. 0	·1119	0. 0	·02548	1. 0	48 ·0	48 ·5
	***	0. 25	·1113	0. 15	{·02540	3. 0	49 ·0	50 ·0
0. 30	32. 0	2. 35	·1119		{·02080	9. 0	49 ·5	49 ·8
0. 45	31. 30	3. 8	·1097	1. 0	·02065	21. 0	44 ·8	45 ·4
1. 22	32. 45	3. 50	·1114	3. 20	·02140			
1. 58	31. 50	4. 40	·1120	9. 0:	·02052			
2. 28	33. 30	5. 6	·1117	14. 0	·02174			
2. 43	32. 45	7. 53	·1128	18. 5	·02409			
2. 52	33. 0		***	23. 59	·02160			
3. 15	26. 30	12. 0	·1128					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V. F. Magnet.
Dec. 15		Dec. 15						
h m	° ′ ″	h m		h m		h m	°	°
4. 7	21. 30. 30	15. 45	·1130					
4. 29	29. 30		***					
4. 54	30. 0	17. 39	·1141					
6. 52	27. 30	17. 47	·1136					
7. 22	27. 40	18. 19	·1139					
7. 54	26. 45	18. 39	·1130					
8. 10	27. 30	19. 10	·1129					
8. 19	26. 30	19. 45	·1146					
8. 40	27. 35	20. 40	·1141					
9. 10	26. 20	21. 41	·1127					
9. 28	27. 45	23. 15	·1124					
10. 10	26. 30	23. 59	·1126					
11. 51	28. 30							
16. 7	29. 20							
16. 15	28. 30							
17. 0	28. 30							
17. 28	26. 55							
17. 43	27. 45							
18. 15	27. 20							
19. 16	32. 0							
	***							
20. 30	27. 30							
21. 30	28. 30							
23. 35	32. 30							
23. 59	32. 30							
Dec. 16		Dec. 16		Dec. 16		Dec. 16		
0. 0	21. 32. 30	0. 0	·1126	0. 0	·02160	1. 0	45 ·0	45 ·6
2. 15	32. 30	0. 30	·1125	1. 40:	·02190	3. 0	46 ·0	46 ·5
2. 43	31. 0	3. 16	·1133	4. 0	·02141	9. 0	46 ·6	47 ·2
3. 42	30. 50	4. 0	·1131	12. 0:	·02108	21. 0	44 ·6	45 ·2
4. 29	28. 30	5. 8	·1139	23. 59	·02316			
5. 15	28. 30	5. 25	·1136					
5. 31	29. 20	6. 10	·1139					
	***	6. 23	·1135					
7. 22	29. 20	6. 55	·1138					
8. 0	26. 30	7. 39	·1130					
8. 18	28. 20	8. 6	·1136					
8. 43	27. 45	8. 25	·1134					
	***		***					
12. 22	29. 10	9. 50	·1138					
13. 28	28. 20	12. 5	·1138					
17. 12	29. 0	12. 52	·1141					
	***	15. 15	·1142					
21. 0	27. 10	17. 45	·1148					
	***		***					
22. 30	30. 30	19. 50	·1147					
	***		***					
23. 45	31. 0	23. 41	·1127					
23. 52	32. 50	23. 59	·1135					
23. 59	31. 45							
Dec. 17		Dec. 17		Dec. 17		Dec. 17		
0. 0	21. 31. 45	0. 0	·1135	0. 0	·02316	1. 0	45 ·3	46 ·0
4. 28	28. 0	1. 40	·1143	2. 0:	·02260	3. 0	47 ·0	48 ·0
	***	4. 33	·1142	3. 16	·02148	9. 0	47 ·5	47 ·5
7. 29	29. 20	4. 44	·1150	7. 30	·02120	21. 0	47 ·8	48 ·0
	***		***	11. 0	·02130			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 17		Dec. 17		Dec. 17				
h m	° ′ ″	h m		h m		h m	°	°
10. 28	21. 27. 20	5. 30	·1146	12. 25	·02170			
10. 43	27. 45	6. 23	·1151	22. 30	·02165			
11. 29	27. 20	6. 36	·1146	23. 59	·02190			
11. 40	27. 50	6. 55	·1150					
	***	7. 8	·1145					
12. 47	25. 20	8. 0	·1146					
	***	8. 35	·1150					
13. 56	27. 10		***					
14. 7	29. 0	10. 0	·1150					
14. 25	28. 20	10. 11	·1154					
14. 36	29. 30		***					
14. 53	27. 30	10. 28	·1147					
15. 15	26. 25	10. 38	·1148					
	***	10. 44	·1159					
16. 45	27. 45	10. 52	·1150					
17. 30	31. 40	11. 20	·1150					
18. 11	25. 35	11. 42	·1132					
18. 30	29. 20	12. 0	·1134					
18. 39	27. 0	13. 0:	·1146					
	***		***					
19. 14	29. 40	13. 53	·1141					
19. 22	28. 5	13. 55	·1145					
19. 52	30. 30	14. 2	·1134					
	***	14. 13	·1147					
21. 40	30. 30	14. 30	·1144					
	***	14. 45	·1153					
21. 59	31. 50	14. 59	·1147					
22. 38	37. 20	15. 12	·1150					
23. 15	38. 15	15. 45	·1146					
23. 25	37. 20	15. 57	·1151					
23. 40	38. 0	16. 16	·1145					
23. 59	35. 30	16. 58	·1153					
		18. 0	·1174					
		18. 35	·1148					
		18. 45	·1158					
		19. 10	·1156					
		19. 16	·1150					
		19. 40	·1153					
		20. 10	·1148					
		20. 15	·1151					
		20. 50	·1143					
		21. 9	·1142					
		22. 0	·1133					
		23. 5	·1129					
		23. 25	·1124					
		23. 59	·1129					
Dec. 18		Dec. 18		Dec. 18		Dec. 18		
0. 0	21. 35. 30	0. 0	·1129	0. 0	·02190	1. 0	49 ·0	49 ·0
0. 39	33. 45	0. 15	·1133	1. 20	·02248	3. 0	50 ·0	51 ·0
1. 58	32. 30	3. 6	·1130	11. 15	·02285	9. 0	51 ·0	52 ·0
	***	3. 37	·1135	14. 0	·02260	22. 35	51 ·5	52 ·0
3. 30	29. 5	4. 6	·1134	17. 7	·02320			
4. 40	28. 5	4. 15	·1138	17. 35	·02295			
6. 21	28. 20	4. 37	·1134	18. 50	·02320			
6. 45	27. 40	4. 44	·1139	22. 10	·02272			
7. 44	28. 40	4. 58	·1135	23. 59	·02296			
9. 22	28. 30	6. 20	·1137					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 18		Dec. 18						
h m	° ′ ″	h m		h m		h m	°	°
9. 52	21. 25. 50	7. 20	·1135					
10. 0	26. 0	7. 55	·1137					
10. 44	23. 10	8. 40:	·1131					
11. 25	29. 0	10. 30	·1133					
11. 42	28. 50	11. 0	·1127					
	***	12. 3	·1131					
12. 27	29. 45	12. 29	·1128					
	***	13. 35	·1137					
12. 52	33. 35	14. 24	·1130					
14. 0	27. 0	16. 0	·1136					
14. 26	26. 45	16. 45	·1131					
14. 42	29. 10	17. 15	·1148					
14. 45	29. 0	17. 32	·1148					
15. 10	30. 55	18. 23	·1130					
15. 44	29. 45	18. 44	·1140					
15. 52	28. 40	19. 30	·1130					
16. 22	28. 0		***					
16. 45	31. 10	20. 55	·1128					
17. 6	35. 30	21. 8	·1122					
17. 30	29. 10	23. 59	·1124					
18. 0	27. 15							
	***							
18. 43	28. 20							
19. 22	27. 20							
19. 40	28. 10							
	***							
21. 10	27. 20							
22. 8	30. 0							
22. 37	33. 30							
22. 50	33. 20							
23. 10	34. 30							
23. 30	32. 50							
23. 43	33. 30							
23. 59	33. 5							
Dec. 19		Dec. 19		Dec. 19		Dec. 19		
0. 0	21. 33. 5	0. 0	·1125	0. 0	·02296	8. 0	51 ·5	52 ·0
0. 43	33. 30	2. 10	·1131	2. 6	·02270	21. 0	46 ·0	47 ·0
1. 7	32. 30	3. 44	·1126	6. 0	·02292			
2. 0	32. 30	6. 6	·1132	9. 45:	·02340			
3. 15	30. 50	7. 10	·1128	15. 14	·02565			
4. 40	31. 10	7. 54	·1133	22. 10:	·02484			
6. 42	29. 30	9. 0	·1131	23. 59	·02480			
7. 11	28. 20	14. 40	·1138					
8. 54	28. 0	17. 0:	·1143					
14. 40	29. 50	20. 30	·1137					
21. 22	28. 10	23. 59	·1136					
22. 40	31. 55							
23. 59	31. 55							
Dec. 20		Dec. 20		Dec. 20		Dec. 20		
0. 0	21. 31. 55	0. 0	·1136	0. 0	·02480	1. 0	47 ·2	47 ·5
2. 4	31. 45	0. 35	·1136	1. 20:	·02461	3. 0	49 ·7	50 ·0
3. 30	30. 40	1. 0	·1132	2. 53	·02250	9. 0	50 ·0	50 ·5
5. 0	28. 30	3. 15	·1127	4. 0	·02268	21. 0	47 ·5	48 ·2
6. 30	27. 40	6. 14	·1131	9. 30	·02223			
6. 55	28. 35	7. 5	·1125	13. 45	·02340			
7. 44	26. 30		***	19. 0	·02460			

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 20		Dec. 20		Dec. 20				
h m	° ′ ″	h m		h m		h m	°	°
8. 0	21. 27. 30	12. 13	·1141	23. 59	·02483			
8. 15	27. 5	12. 23	·1136					
8. 50	27. 50		***					
10. 4	27. 10	18. 14	·1147					
12. 34	30. 0	18. 40	·1145					
	***	19. 50	·1147					
20. 15	29. 5		***					
20. 56	27. 55	21. 25	·1144					
21. 28	30. 40	22. 10	·1138					
	***	22. 40	·1142					
23. 22	33. 15	23. 30	·1132					
23. 40	30. 50	23. 59	·1134					
23. 59	31. 30							
Dec. 21		Dec. 21		Dec. 21		Dec. 21		
0. 0	21. 31. 30		(†)	0. 0	·02483	1. 0	49 ·7	50 ·5
0. 27	32. 0	0. 23	·1136	1. 25	·02260	3. 0	52 ·0	52 ·5
1. 2	31. 0	2. 51	·1126	3. 40	·02351	9. 0	54 ·5	54 ·5
1. 33	31. 40	3. 50	·1129	13. 15	·02326	21. 0	53 ·0	54 ·0
1. 45	30. 40	4. 17	·1118	18. 0:	·02350			
3. 12	30. 50	4. 45	·1121	23. 0	·02558			
3. 39	30. 30	5. 25	·1130	23. 59	·02572			
4. 5	31. 0	5. 56	·1128					
4. 27	39. 30	6. 30	·1132					
5. 15	29. 0	7. 46	·1123					
5. 32	30. 30	8. 37:	·1132					
5. 57	29. 15	9. 45	·1127					
6. 29	28. 30	10. 41	·1131					
6. 59	28. 40	11. 8	·1129					
7. 38	27. 45	11. 31	·1138					
8. 2	22. 35	12. 0	·1133					
8. 14	24. 5	13. 11	·1135					
8. 40	22. 30	13. 30	·1131					
9. 15	27. 0		***					
11. 21	26. 40	16. 30	·1131					
11. 43	28. 20	18. 0	·1139					
12. 40	29. 20	19. 38	·1133					
12. 51	30. 50	20. 0	·1134					
	***	20. 30	·1128					
14. 12	27. 40	21. 20	·1127					
14. 29	28. 30		***					
14. 55	28. 30	23. 20	·1113					
15. 21	30. 30	23. 59	·1107					
16. 4	29. 30							
16. 30	26. 30							
16. 52	29. 0							
17. 43	30. 0							
17. 55	29. 10							
18. 28	29. 10							
18. 44	28. 30							
	***							
20. 10	28. 30							
	***							
21. 30	30. 10							
21. 40	29. 0							
	***							
23. 20	33. 20							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F Magnet.
Dec. 21								
h m	° ′ ″	h m		h m		h m	°	°
23. 51	21. 32. 40							
23. 57	33. 40							
Dec. 22		Dec. 22		Dec. 22		Dec. 22		
	(†)	0. 0	·1107	0. 0	·02572	1. 0	53 ·5	53 ·7
0. 13	21. 31. 45	1. 26	·1110	3. 23	·02600	3. 0	54 ·8	55 ·0
	***	1. 38	·1104		·02732	9. 0	53 ·0	53 ·0
1. 30	34. 30	1. 50	·1104	7. 10	·02740	21. 0	50 ·0	50 ·8
1. 48	33. 30	2. 10	·1114	8. 30	·02690			
2. 4	35. 30	2. 45	·1109	11. 35	·02622			
3. 26	35. 0		***	12. 10	·02580			
3. 48	33. 45	3. 56	·1107	16. 0	·02610			
3. 57	34. 20	4. 7	·1102	18. 0	·02580			
4. 22	31. 20	4. 31	·1106	23. 59	·02546			
4. 37	32. 0		***					
4. 46	30. 50	5. 29	·1105					
5. 12	30. 0	5. 45	·1110					
5. 18	30. 50	6. 0	·1105					
5. 31	29. 10		***					
	***	6. 52	·1104					
6. 38	29. 5	7. 6	·1098					
7. 0	26. 10	7. 15	·1099					
7. 12	26. 5	7. 30	·1107					
7. 28	22. 40	8. 25	·1119					
7. 36	24. 20	8. 53	·1113					
7. 48	24. 30	9. 23	·1120					
7. 59	26. 30	9. 30	·1113					
8. 15	26. 0	9. 51	·1121					
8. 28	26. 30	10. 14	·1112					
8. 51	25. 40	10. 44	·1117					
9. 15	21. 15		***					
9. 30	24. 30	11. 5	·1126					
9. 51	21. 20	11. 23	·1113					
10. 5	23. 55	12. 0	·1142					
10. 45	20. 30	12. 10	·1142					
11. 10	29. 40	12. 21	·1134					
11. 16	25. 10	12. 37	·1138					
11. 31	29. 45		***					
12. 12	21. 20	13. 30	·1131					
12. 29	19. 45	13. 45	·1136					
13. 52	27. 50	13. 55	·1131					
14. 43	30. 0	15. 0	·1134					
15. 21	28. 0	16. 12	·1144					
16. 10	29. 55		***					
16. 15	28. 50	17. 20	·1135					
16. 30	30. 40	17. 45	·1148					
16. 43	30. 30	18. 54	·1139					
17. 14	37. 25	19. 15	·1145					
17. 30	37. 55	19. 53	·1142					
17. 58	33. 40	20. 39	·1127					
18. 16	33. 20	21. 0	·1128					
18. 33	31. 30		***					
18. 58	30. 25	23. 30	·1106					
19. 0	31. 45	23. 59	·1108					
19. 12	30. 50							
19. 15	32. 30							
19. 43	30. 20							
20. 0	31. 45							
20. 44	30. 50							

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V.F. Magnet.
Dec. 22								
h m	° ′ ″	h m		h m		h m	°	°
21. 0	21. 32. 45							
21. 28	31. 20							
	***							
22. 15	36. 20							
22. 40	33. 20							
23. 6	33. 55							
23. 29	40. 0							
23. 45	41. 40							
23. 55	40. 30							
23. 59	41. 15							
Dec. 23		Dec. 23		Dec. 23		Dec. 23		
0. 0	21. 41. 15	0. 0	·1108	0. 0	·02546	1. 0	52 ·5	52 ·7
0. 25	32. 30		(†)	3. 6	·02380	3. 0	54 ·2	54 ·5
	***	2. 47	·1119	4. 45	·02439	9. 0	54 ·0	53 ·8
0. 58	32. 30	3. 10	·1123	7. 13	·02408	21. 0	49 ·0	49 ·0
1. 28	37. 45	4. 2	·1089	7. 54	·02360			
1. 58	36. 40	4. 14	·1106	10. 41	·02357			
2. 14	33. 15	4. 20	·1090	10. 47	·02460			
2. 37	32. 0		***	13. 14	·02510			
2. 45	34. 35	4. 50	·1113	13. 44	·02456			
	***	5. 2	·1114	15. 44	·02632			
3. 43	35. 0	5. 10	·1108	18. 15	·02590			
3. 56	37. 50	5. 42	·1113	22. 25	·02560			
4. 12	33. 20	6. 0	·1105	23. 59	·02588			
4. 15	33. 45	6. 12	·1112					
4. 43	23. 15	6. 30	·1105					
4. 50	24. 0	6. 41	·1110					
5. 11	32. 30	7. 1	·1096					
5. 14	31. 30	7. 15	·1118					
5. 20	33. 20	7. 21	·1117					
5. 36	31. 30	7. 29	·1110					
5. 57	33. 40	7. 39	·1114					
6. 12	32. 10	7. 51	·1104					
6. 16	32. 35	8. 13	·1117					
6. 41	23. 50	9. 7	·1108					
	***	9. 40	·1115					
6. 52	24. 45	11. 22	·1119					
6. 59	27. 45	12. 15	·1114					
7. 14	18. 10	12. 40	·1104					
7. 29	26. 10	12. 50	·1106					
7. 40	25. 10	13. 6	·1119					
7. 50	27. 15	13. 18	·1114					
8. 10	23. 50	13. 30	·1126					
8. 20	26. 30	13. 45	·1103					
8. 40	27. 25	14. 0	·1117					
9. 0	26. 15		***					
9. 40	27. 30	16. 25	·1121					
10. 54	27. 5	16. 40	·1130					
11. 28	28. 10	17. 7	·1132					
	***		***					
12. 28	22. 0	17. 51	·1125					
12. 43	18. 30	18. 9	·1130					
13. 0	7. 30		***					
13. 29	22. 15	21. 25	·1117					
13. 42	19. 30	21. 41	·1105					
13. 48	21. 15	22. 25	·1111					
14. 5	13. 30	23. 0	·1111					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V.F. Magnet.
Dec. 23		Dec. 23						
h m	° ′ ″	h m		h m		h m	°	°
14. 15	21. 18. 15	23. 16	·1118					
14. 45	26. 30	23. 44	·1110					
	***	23. 59	·1117					
16. 11	28. 40							
16. 28	28. 20							
16. 40	30. 15							
	***							
16. 59	29. 30							
	***							
17. 43	35. 30							
18. 25	30. 20							
	***							
19. 55	29. 0							
20. 4	31. 20							
	***							
20. 44	27. 45							
	***							
21. 48	29. 20							
	***							
23. 7	35. 55							
23. 12	34. 15							
	***							
23. 33	39. 30							
	***							
23. 59	34. 15							
Dec. 24		Dec. 24		Dec. 24		Dec. 24		
0. 0	21. 34. 15	0. 0	·1117	0. 0	·02588	1. 0	51 ·0	51 ·0
	***	0. 20	·1122	2. 15	·02420	3. 0	53 ·5	53 ·7
0. 29	32. 40	1. 15	·1125		***	9. 0	52 ·5	52 ·2
1. 1	32. 40	1. 45	·1113	3. 39	·02926	22. 33	45 ·5	47 ·5
1. 15	36. 0	2. 10	·1084	3. 47	·02856			
1. 43	35. 0	2. 20	·1082	3. 55	·02985			
1. 52	41. 0		***	4. 50	·02680			
	***	2. 57	·1130		***			
2. 25	37. 10	3. 16	·1120	6. 55	·02664			
2. 30	38. 45	3. 25	·1141	7. 15	·02706			
2. 36	37. 30	3. 38	·1115	12. 24	·02640			
2. 43	43. 10	3. 45	·1155	12. 41	·02660			
	***	3. 59	·1104	13. 15	·02593			
2. 58	45. 50	4. 5	·1118	22. 0	·02540			
3. 3	44. 30	4. 17	·1094	23. 59	·02540			
3. 12	49. 15	4. 23	·1100					
3. 21	40. 15	4. 32	·1088					
3. 36	49. 30	4. 44	·1093					
3. 46	21. 0	4. 50	·1082					
3. 55	41. 15	5. 0	·1089					
4. 7	19. 30	5. 11	·1082					
4. 21	21. 30	5. 18	·1085					
4. 27	21. 10	5. 36	·1080					
4. 41	26. 30	5. 50	·1081					
4. 48	33. 30	6. 0	·1088					
4. 54	30. 40	6. 16	·1083					
5. 12	35. 40	6. 30	·1095					
5. 20	34. 0	6. 50	·1065					
5. 30	35. 30	7. 10	·1094					
5. 44	32. 30		***					
5. 46	33. 0	8. 16	·1104					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 24		Dec. 24						
h m	° ′ ″	h m		h m		h m	°	°
5. 57	21. 30. 0	8. 30	·1102					
6. 12	30. 15	9. 36	·1108					
6. 21	37. 30	9. 51	·1104					
6. 43	33. 10	10. 4	·1108					
7. 6	20. 30	11. 15	·1110					
7. 40	26. 40	11. 41	·1099					
	***	12. 0	·1096					
9. 44	26. 40	12. 30	·1131					
10. 30	22. 45	12. 40	·1126					
	***	12. 55	·1132					
10. 58	24. 30	13. 20	·1124					
	***	13. 30	·1127					
11. 42	23. 10	13. 44	·1117					
11. 55	19. 55		***					
12. 12	15. 35	14. 25	·1125					
12. 38	36. 10		***					
12. 58	29. 30	16. 24	·1127					
13. 13	28. 45	17. 8	·1136					
13. 26	27. 0	17. 45	·1135					
13. 31	28. 40	18. 15	·1140					
13. 45	25. 45	20. 0	·1134					
	***	20. 35	·1136					
14. 36	29. 30	21. 45	·1124					
14. 51	28. 40	23. 25	·1118					
15. 27	30. 30	23. 59	·1122					
15. 41	29. 15							
16. 10	31. 15							
17. 10	30. 40							
18. 11	32. 35							
18. 51	30. 50							
19. 27	30. 45							
20. 28	29. 45							
	***							
21. 52	32. 45							
22. 6	30. 40							
22. 15	32. 30							
22. 30	31. 20							
22. 37	33. 30							
23. 59	32. 50							
Dec. 25		Dec. 25		Dec. 25		Dec. 25		
0. 0	21. 32. 50	0. 0	·1122	0. 0	·02520	6. 15	47 ·0	48 ·5
	***	1. 0	·1131	3. 0	·02560	22. 49	46 ·3	47 ·4
1. 22	33. 30	2. 2	·1130	5. 0	·02522			
	***	3. 45	·1131	13. 0:	·02241			
2. 32	31. 50	4. 9	·1124	20. 45	·02452			
	***	5. 0	·1137	23. 59	·02448			
3. 15	31. 30		***					
3. 54	29. 15	14. 40	·1133					
4. 30:	25. 10	14. 59	·1137					
5. 16	28. 45	16. 25	·1137					
7. 42	28. 0	18. 27	·1142					
11. 44	28. 0	21. 30	·1130					
12. 12	27. 30	23. 59	·1128					
13. 15	28. 40							
14. 7	27. 55							
14. 43	28. 30							
14. 55	30. 0							

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 25								
h m	° ′ ″	h m		h m		h m	°	°
15. 58	21. 26. 30							
17. 22	25. 40							
18. 30	28. 10							
	***							
21. 27	28. 30							
	***							
23. 40	32. 20							
23. 52	33. 40							
23. 59	33. 30							
Dec. 26		Dec. 26		Dec. 26		Dec. 26		
0. 0	21. 33. 30	0. 0	·1128	0. 0	·02448	6. 39	48 ·2	48 ·8
	***	0. 45	·1131	2. 32	·02337	21. 0	47 ·0	47 ·8
0. 40	34. 30	3. 20	·1129	5. 53	·02161			
2. 14	33. 15	3. 45	·1131	13. 0	·02190			
4. 51	28. 30	4. 25	·1129	19. 30	·02157			
5. 4	29. 40	5. 0	·1135	21. 40	·02190			
5. 28	29. 40	5. 32	·1132		(†)			
5. 46	26. 45	6. 11	·1142					
6. 0	26. 35	6. 44	·1136					
6. 26	28. 40	6. 58	·1152					
6. 52	25. 10	7. 15	·1143					
7. 45	28. 20	8. 16	·1136					
8. 28	27. 45	8. 53	·1141					
8. 45	26. 30	9. 10	·1137					
9. 0	27. 30	10. 0	·1139					
9. 15	26. 30	10. 35	·1136					
	***	16. 15	·1140					
10. 55	28. 0	20. 10:	·1142					
11. 7	28. 40	22. 20	·1130					
11. 50	28. 20	22. 53	·1128					
12. 12	29. 30	23. 59	·1126					
21. 28	29. 30							
	***							
23. 28	33. 0							
23. 59	31. 40							
Dec. 27		Dec. 27				Dec. 27		
0. 0	21. 31. 40	0. 0	·1126			1. 0	47 ·0	
0. 10	32. 40	0. 21	·1131			3. 0	49 ·0	
0. 13	32. 20	1. 30	·1122			9. 0	48 ·9	
0. 20	33. 40	4. 30	·1127			21. 0	46 ·0	
0. 30	31. 55	4. 50	·1130					
2. 15	31. 50	6. 18	·1127					
2. 30	32. 30	7. 30	·1133					
2. 44	31. 30		***					
5. 17	30. 0	12. 25	·1134					
6. 9	28. 40	20. 30	·1138					
6. 24	26. 15	22. 40	·1122					
7. 0	27. 30	23. 59	·1124					
7. 22	26. 40							
7. 43	28. 15							
	***							
11. 44	28. 15							
13. 12	28. 45							
17. 28	27. 50							
18. 12	28. 45							
20. 50	27. 50							

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

December 27. The Vertical Force Magnet was removed from its box for re-adjustment.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 27								
h m	° ′ ″	h m		h m		h m	°	°
23. 0	21. 30. 30 (†)							
		Dec. 28				Dec. 28		
		0. 0	·1124			1. 0	47 ·0	
		1. 15	·1117			3. 0	48 ·5	
		9. 45	·1136			9. 0	48 ·6	
		10. 15	·1133 ***			21. 0	45 ·0	
		12. 30	·1136					
		14. 10	·1135					
		19. 15	·1141					
		20. 27	·1139					
		21. 45	·1128					
		23. 59	·1135					
Dec. 29		Dec. 29				Dec. 29		
	(†)	0. 0	·1135			1. 0	46 ·0	
2. 30	21. 31. 15	1. 6	·1142			3. 0	46 ·5	
2. 46	31. 0	1. 19	·1137			9. 0	46 ·4	
3. 10	29. 25	2. 50	·1145			21. 0	43 ·0	
3. 30	30. 10	3. 11	·1142					
4. 15	29. 10	4. 39	·1146					
5. 15	31. 0 ***	5. 0	·1139					
		5. 36	·1141					
6. 15	28. 0	6. 5	·1135					
6. 45	30. 0	6. 38	·1132					
7. 0	28. 5	6. 54	·1135					
7. 17	30. 40	7. 8	·1131					
7. 45	25. 0	7. 25	·1116					
8. 8	26. 30	7. 33	·1116					
9. 13	26. 0	7. 57	·1124					
9. 30	21. 35	8. 24	·1122					
10. 0	22. 30	9. 3	·1127					
10. 25	27. 0	9. 27	·1119					
10. 45	21. 50 ***	9. 45	·1126					
		10. 0	·1126					
12. 7	19. 35	10. 10	·1132					
12. 50	24. 30	10. 29	·1120					
13. 12	21. 30	10. 45	·1125					
13. 37	24. 30 ***	11. 1	·1118					
		11. 16	·1122					
16. 55	27. 0	11. 42	·1139					
17. 24	25. 0	12. 0	·1129 ***					
18. 22	26. 25 ***	13. 6	·1127					
19. 25	26. 30	13. 25	·1131 ***					
19. 37	24. 30							
19. 48	26. 30	16. 10	·1138					
20. 17	25. 0	19. 2	·1138					
22. 0	28. 45 (†)	19. 26	·1145					

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Dec. 29						
h m	° ′ ″	h m		h m		h m	°	°
		19. 35	·1142					
		19. 50	·1148					
		20. 30	·1148					
		21. 45	·1138					
		23. 41	·1134					
		23. 51	·1129					
		23. 59	·1130					
Dec. 30		Dec. 30				Dec. 30		
	(†)	0. 0	·1130			1. 0	43 ·5	
1. 30	21. 30. 0	0. 53	·1131			3. 0	45 ·0	
4. 0	27. 15	1. 15	·1125			9. 0	47 ·2	
10. 0	24. 30	2. 45	·1132			21. 14	47 ·3	
11. 55	25. 40	3. 10	·1128					
13. 4	23. 30	3. 47	·1132					
15. 0	26. 0	4. 40	·1132 ***					
16. 57	24. 30 ***	5. 51	·1138					
18. 20	25. 35	6. 40	·1136 ***					
19. 35	24. 50 ***	12. 52	·1134					
22. 35	25. 0	17. 10	·1140					
23. 59	27. 0	19. 20	·1145					
		20. 28	·1142					
		20. 57	·1137					
		22. 40	·1130					
		23. 59	·1116					
Dec. 31		Dec. 31				Dec. 31		
0. 0	21. 27. 0	0. 0	·1116			1. 0	51 ·2	
1. 14	30. 35	5. 0	·1117			3. 0	53 ·8	
3. 6	28. 0	5. 29	·1113			9. 0	52 ·7	
6. 25	23. 0	5. 55	·1116			21. 12	48 ·3	
6. 54	25. 0	6. 10	·1113					
7. 45	25. 30 ***	7. 10	·1124					
		7. 40	·1118					
10. 45	22. 55	9. 0	·1126					
11. 15	24. 15	10. 6	·1126					
12. 10	24. 10 ***	10. 32	·1133					
		12. 15	·1129					
14. 45	24. 0	12. 30	·1134 ***					
15. 16	27. 0							
15. 50	24. 50 ***	14. 44	·1134					
		15. 45	·1139					
18. 30	25. 0	19. 50	·1141					
19. 45	26. 10	23. 0	·1125 (†)					
21. 12	23. 40							
22. 50	27. 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.

December 28. The Declination Magnet was under adjustment.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

OBSERVATIONS

OF THE

MAGNETIC DIP.

1858.

During the year 1858, the observations of the Magnetic Dip were made generally with the instrument by Robinson used in preceding years, and described in the volume of *Greenwich Magnetical and Meteorological Observations* for 1847, and in preceding volumes. With this instrument are used four nine-inch needles, two of which, marked A and A 2, were made by Barrow, and two, marked A 1 and A 3, were made by Dent. In the tabular statement of the values of the Magnetic Dip these needles are called Barrow A and Barrow A 2, and Dent A 1 and Dent A 3.

In addition to these observations, others were made in the months of February, March, and November with three other instruments, carrying three-inch needles, all of which were made by Barrow.

The first of these was made for Father Secchi of Rome, and its needles are distinguished as Secchi A 1 and Secchi A 2.

The second was intended for employment in the operations connected with the Oregon Boundary Commission, and observations were made with it at this Observatory by Captain Haig, R.A., an officer employed on that service. The needles of this instrument are distinguished as Haig A 1 and Haig A 4.

The third instrument was brought to the Observatory, and observations were made with it, by the Rev. Alfred Weld, of Stonyhurst College. Its needles, for distinction, are called Weld A 1 and Weld A 2.

MAGNETIC DIP, observed at the ROYAL OBSERVATORY, GREENWICH, in the Year 1858.

Day and Approximate Hour, 1858.	Needle.	Magnetic Dip.	Observer.
		° ′	
January 14. 0	Barrow A 2	68. 34 ·25	T D
15. 0	,, ,,	68. 33 ·50	H C
29. 0	Dent A 1	68. 17 ·50	T D
February 1. 0	Barrow A 2	68. 30 ·75	H C
3. 23	,, ,,	68. 28 ·50	T D
8. 21	,, ,,	68. 32 ·75	T D
11. 22	,, ,,	68. 32 ·25	H C
15. 22	,, ,,	68. 30 ·25	T D
16. 22	,, ,,	68. 31 ·25	H C
17. 21	,, ,,	68. 34 ·25	T D
17. 22	Secchi A 1	68. 30 ·25	H C
17. 23	,, A 2	68. 26 ·25	H C
18. 0	,, ,,	68. 26 ·88	H C
18. 2	Dent A 1	68. 17 ·25	T D
18. 22	Secchi A 1	68. 22 ·25	T D
19. 0	,, A 2	68. 21 ·50	T D
19. 2	,, ,,	68. 24 ·72	T D
19. 3	,, ,,	68. 20 ·25	H C
19. 21	,, A 1	68. 19 ·50	H C
19. 22	,, A 2	68. 20 ·00	H C
22. 21	Barrow A 2	68. 28 ·25	H C
22. 22	,, ,,	68. 33 ·25	T D
23. 21	,, ,,	68. 32 ·25	T D
23. 22	Haig A 1	68. 13 ·50	H C
23. 23	,, A 4	68. 18 ·75	H C
24. 21	,, A 1	68. 14 ·13	H C
25. 0	,, ,,	68. 20 ·18	H C
25. 21	,, A 4	68. 17 ·75	H C
26. 0	,, A 1	68. 17 ·50	H C
26. 1	,, A 4	68. 21 ·25	H C
27. 23	,, A 1	68. 18 ·25	R W H
March 5. 22	Haig A 1	68. 23 ·25	H C
5. 23	,, A 4	68. 19 ·63	H C
9. 21	,, A 1	68. 18 ·50	T D
9. 22	,, A 4	68. 25 ·75	T D
10. 22	,, ,,	68. 22 ·85	R W H
23. 0	,, A 1	68. 15 ·75	T D
23. 21	,, A 4	68. 23 ·25	T D
April 5. 1	Dent A 3	68. 28 ·25	H C
5. 23	,, ,,	68. 28 ·25	T D
13. 21	,, ,,	68. 31 ·00	T D
14. 23	,, ,,	68. 31 ·12	H C
21. 22	,, ,,	68. 23 ·50	T D
24. 1	,, A 1	68. 18 ·75	T D
26. 21	,, ,,	68. 17 ·25	H C
26. 22	,, A 3	68. 26 ·00	H C
27. 21	Barrow A 2	68. 29 ·00	H C
28. 21	Dent A 1	68. 18 ·25	H C
29. 21	Barrow A 2	68. 27 ·00	H C
30. 21	Dent A 3	68. 27 ·00	H C
May 3. 21	Dent A 1	68. 14 ·75	T D
4. 21	Barrow A 2	68. 27 ·00	T D
5. 21	Dent A 3	68. 26 ·75	T D
May 6. 21	Dent A 1	68. 19 ·75	T D
7. 21	Barrow A 2	68. 28 ·75	T D
9. 21	Dent A 3	68. 24 ·25	T D
10. 21	,, A 1	68. 15 ·82	T D
11. 21	Barrow A 2	68. 35 ·30	T D
13. 21	Dent A 3	68. 18 ·53	T D
June 1. 23	Barrow A	68. 21 ·75	T D
6. 23	,, ,,	68. 26 ·67	H C
7. 0	,, ,,	68. 25 ·25	H C
8. 0	Dent A 1	68. 18 ·75	T D
8. 1	,, ,,	68. 11 ·28	T D
8. 22	Barrow A 2	68. 36 ·55	H C
9. 0	,, ,,	68. 35 ·25	H C
10. 1	Dent A 3	68. 28 ·75	H C
10. 2	,, ,,	68. 27 ·25	H C
12. 1	,, A 1	68. 17 ·75	T D
14. 23	Barrow A 2	68. 36 ·75	T D
15. 0	,, ,,	68. 27 ·42	T D
15. 23	Dent A 3	68. 24 ·75	T D
16. 21	,, ,,	68. 20 ·17	T D
18. 0	Barrow A	68. 28 ·00	H C
18. 1	,, ,,	68. 30 ·61	H C
20. 22	Dent A 3	68. 33 ·50	H C
20. 23	,, ,,	68. 32 ·10	H C
22. 0	Barrow A	68. 20 ·75	T D
22. 1	,, ,,	68. 26 ·82	T D
22. 23	Dent A 1	68. 18 ·75	T D
23. 0	,, ,,	68. 20 ·22	T D
25. 0	,, A 3	68. 30 ·75	T D
30. 1	Barrow A 2	68. 37 ·50	T D
July 2. 0	Dent A 1	68. 21 ·75	T D
9. 1	,, ,,	68. 21 ·75	T D
12. 1	,, A 3	68. 27 ·00	T D
13. 1	Barrow A 2	68. 40 ·50	T D
15. 2	Dent A 1	68. 23 ·25	T D
20. 0	,, A 3	68. 24 ·25	T D
23. 21	Barrow A	69. 0 ·25	H C
26. 22	Dent A 1	68. 28 ·25	H C
29. 21	Barrow A 2	69. 1 ·50	H C
August 5. 0	Dent A 1	68. 22 ·50	T D
13. 1	,, A 3	68. 26 ·00	T D
17. 22	Barrow A	69. 4 ·00	H C
23. 21	Dent A 1	68. 20 ·75	T D
26. 21	Barrow A 2	68. 26 ·50	H C
28. 0	Dent A 3	68. 25 ·75	T D
30. 22	,, A 1	68. 19 ·25	H C
September 1. 23	Barrow A 2	68. 27 ·00	T D
2. 21	,, A	68. 40 ·50	H C
6. 21	Dent A 3	68. 31 ·25	H C
10. 1	Barrow A 2	68. 30 ·25	H C
10. 21	Dent A 1	68. 20 ·50	H C
13. 23	,, A 3	68. 26 ·75	T D

The initials T D, H C, R W H, and A W are those of Mr. Downs, Mr. Henry Criswick, Capt. Haig, R.A., and the Rev. Alfred Weld, of Stonyhurst, respectively.

MAGNETIC DIP, observed at the ROYAL OBSERVATORY, GREENWICH, in the Year 1858—*concluded.*

Day and Approximate Hour, 1858.	Needle.	Magnetic Dip.	Observer.	Day and Approximate Hour, 1858.	Needle.	Magnetic Dip.	Observer.
d h		° ′		d h		° ′	
September 24. 0	Dent A 1	68. 20 ·75	T D	November 11. 23	Weld A 1	68. 19 ·75	A W
28. 21	Barrow A	68. 48 ·25	H C	12. 0	,, ,,	68. 19 ·75	H C
30. 1	Dent A 3	68. 29 ·50	T D	16. 23	,, ,,	68. 20 ·50	T D
				17. 22	,, A 2	68. 18 ·50	H C
October 26. 21	Dent A 1	68. 18 ·75	T D	24. 22	,, ,,	68. 20 ·25	A W
30. 0	Barrow A 2	68. 28 ·00	H C	24. 23	,, ,,	68. 21 ·25	H C
				25. 0	,, ,,	68. 21 ·42	H C
November 3. 22	Barrow A	68. 29 ·00	H C	25. 1	,, ,,	68. 21 ·42	A W
10. 1	Dent A 3	68. 27 ·50	T D				
11. 21	Barrow A 2	68. 27 ·25	T D	December 21. 23	Barrow A	68. 20 ·75	H C

September 28. A very damp morning.

MONTHLY MEANS of MAGNETIC DIPS, at the ROYAL OBSERVATORY, GREENWICH, in the Year 1858.

1858, Month.	Barrow, A. (9-inch needle.)	Number of Observations.	Dent, A 1. (9-inch needle.)	Number of Observations.	Barrow, A 2. (9-inch needle.)	Number of Observations.	Dent, A 3. (9-inch needle.)	Number of Observations.
	° ′		° ′		° ′		° ′	
January	....	..	68. 17 ·50	1	68. 33 ·88	2	....	..
February	....	..	....	..	68. 31 ·38	10	....	..
March	....	..	....	..	....	..	....	..
April	....	..	68. 18 ·08	3	68. 28 ·00	2	68. 28 ·06	6
May	....	..	68. 16 ·77	3	68. 30 ·35	3	68. 24 ·13	4
June	68. 25 ·70	7	68. 17 ·35	5	68. 34 ·69	5	68. 28 ·18	7
July	69. 8 ·38	2	68. 23 ·81	4	68. 51 ·00	2	68. 25 ·63	2
August	69. 4 ·00	1	68. 20 ·83	3	68. 26 ·50	1	68. 25 ·88	2
September	68. 44 ·38	2	68. 20 ·63	2	68. 28 ·63	2	68. 29 ·17	3
October	....	..	68. 18 ·75	1	68. 28 ·00	1	....	..
November	68. 29 ·00	1	....	..	68. 27 ·25	1	68. 27 ·50	1
December	68. 20 ·75	1	....	..	....	..	....	..
Mean	....	..	68. 19 ·22	..	68. 31 ·97	..	68. 26 ·94	..

1858, Month.	Secchi, A 1. (3-inch needle.)	Number of Observations.	Secchi, A 2. (3-inch needle.)	Number of Observations.	Haig, A 1. / Weld, A 1. (3-inch needles.)	Number of Observations.	Haig, A 4. / Weld, A 2. (3-inch needles.)	Number of Observations.
	° ′		° ′		° ′		° ′	
January	....	..	....	..	....	..	....	..
February	68. 23 ·28	5	68. 22 ·54	5	68. 16 ·71	5	68. 19 ·25	3
March	....	..	....	..	68. 19 ·17	3	68. 22 ·73	4
April	....	..	....	..	....	..	....	..
May	....	..	....	..	....	..	....	..
June	....	..	....	..	....	..	....	..
July	....	..	....	..	....	..	....	..
August	....	..	....	..	....	..	....	..
September	....	..	....	..	....	..	....	..
October	....	..	....	..	....	..	....	..
November	....	..	....	..	68. 20 ·00	3	68. 20 ·57	5
December	....	..	....	..	....	..	....	..
Mean	....	..	....	..	....	..	....	..

As there appeared to be no certain 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.

1858.

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 the preceding Volume for 1846. The Magnet marked $\frac{D}{X}$ (the same which was used from September 1845), 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 weight of $\frac{D}{XX}$ is 507·302 grains, or 32·873 grammes.

The length of $\frac{D}{XX}$ is 0·3025 foot, or 92·198 millimètres.

The diameter of $\frac{D}{XX}$ is 0·025 foot, or 7·620 millimètres.

Its moment of inertia, therefore, (using the English grain and foot as the units of weight and measure,) is 3·88826.

The weight of the embracing frame and mirror is 108·242 grains, or 7·014 grammes; and, on examining the distribution of this weight, it was thought probable that its moment of inertia would be nearly the same as if it were uniformly distributed over the mirror, whose horizontal length is 0·0658 foot; its moment of inertia is therefore 0·03905.

The weight of the suspending stalk with a pulley is 39·377 grains, or 2·552 grammes, and its moment of inertia (estimated as probably the same as if it had been condensed on the pulley whose diameter is 0·0233 foot), is 0·00135.

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, using the English foot and grain as the unit of length and weight.

π the circumference of circle to diameter 1.

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 computation of the values of m and X has, in preceding years, been made in English measure only, using the foot and the grain as the units of length and weight; but, for comparison with foreign observations of the Absolute Intensity of Magnetism, it is desirable that X should be expressed also in French measure, in terms of the millimètre and milligramme. If an English foot be supposed equal to α times the millimètre, and a grain be equal to β times the milligramme, then it is plain that, for the reduction of $\frac{m}{X}$ and $m X$ to French measure, these must be multiplied by α^3 and $\alpha^2\beta$ respectively. Hence, X^2 must be multiplied by $\frac{\beta}{\alpha}$, and X by $\sqrt{\frac{\beta}{\alpha}}$. Assuming that the mètre is equal to 39·37079 inches, and the gramme equal to 15·432349 grains, $\log.\sqrt{\frac{\beta}{\alpha}}$ will be found to be = 9·6637805, and the factors for reducing the English values of X to French measures will be 0·46108, or $\frac{1}{2 \cdot 1689}$. The values of X in French measure thus derived from those in English measure are given in the proper table.

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

$$\frac{a^1}{(\text{distance})} + \frac{b^1}{(\text{distance})^5}$$

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, 1858.	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 14	Lateral	1. 0	38·6	8. 38. 0·77	5·839	100	33·7	H C
	Axial.....			4. 35. 15·24				
	Lateral	1. 6		2. 36. 34·95				
	Axial.....			1. 20. 39·27	5·844	100	41·0	
February 8	Lateral	1. 0	36·4	8. 35. 29·50	5·803	100	32·3	H C
	Axial.....			4. 36. 17·62				
	Lateral	1. 6		2. 35. 31·49				
	Axial.....			1. 21. 23·54	5·829	100	38·5	
March 26	Lateral	1. 0	48·5	8. 34. 59·45	5·829	100	44·5	H C
	Axial.....			4. 36. 33·82				
	Lateral	1. 6		2. 35. 51·10				
	Axial.....			1. 21. 3·61	5·840	100	53·7	
April 12	Lateral	1. 0	42·4	8. 35. 23·02	5·832	100	42·5	H C
	Axial.....			4. 34. 41·46				
	Lateral	1. 6		2. 36. 27·94				
	Axial.....			1. 20. 41·08	5·847	100	42·0	
May 29	Lateral	1. 0	70·2	8. 30. 11·19	5·848	100	68·0	H C
	Axial.....			4. 32. 56·73				
	Lateral	1. 6		2. 36. 21·47				
	Axial.....			1. 20. 4·51	5·802	100	71·0	
June 16	Lateral	1. 0	90·1	8. 18. 48·31	5·854	100	86·0	H C
	Axial.....			4. 25. 13·57				
	Lateral	1. 6		2. 29. 13·62				
	Axial.....			1. 16. 52·04	5·952	104	92·0	
July 17	Lateral	1. 0	77·0	8. 9. 39·30	5·950	100	70·7	H C
	Axial.....			4. 28. 53·63				
	Lateral	1. 6		2. 29. 47·76				
	Axial.....			1. 15. 19·14	5·982	100	78·0	
August 24	Lateral	1. 0	73·9	8. 7. 19·32	5·946	100	72·0	H C
	Axial.....			4. 23. 46·22				
	Lateral	1. 6		2. 28. 17·70				
	Axial.....			1. 15. 43·83	5·946	100	76·0	
Sept. 13	Lateral	1. 0	82·0	8. 9. 37·74	5·892	100	76·5	H C
	Axial.....			4. 24. 5·21				
	Lateral	1. 6		2. 28. 34·15				
	Axial.....			1. 16. 21·21	5·960	100	82·5	
October 21	Lateral	1. 0	59·2	8. 10. 36·56	5·915	100	57·0	H C
	Axial.....			4. 27. 38·16				
	Lateral	1. 6		2. 30. 36·26				
	Axial.....			1. 17. 40·20	5·938	100	58·2	
November 3	Lateral	1. 0	51·1	8. 11. 8·45	5·947	100	46·0	H C
	Axial.....			4. 26. 18·02				
	Lateral	1. 6		2. 28. 31·16				
	Axial.....			1. 14. 34·86	5·950	100	53·8	
December 31	Lateral	1. 0	42·8	8. 2. 49·27	5·935	100	41·5	H C
	Axial.....			4. 24. 55·00				
	Lateral	1. 6		2. 31. 22·42				
	Axial.....			1. 17. 57·27	5·940	100	43·6	

The lengths of 1 foot and 1 foot 6 inches answer to 304·8 and 457·2 millimètres respectively.
The initials H C are those of Mr. Henry Criswick.

COMPUTATION of the VALUES of ABSOLUTE MEASURE of HORIZONTAL FORCE.

Month and Day, 1858.	In English Measure. Apparent Value of a.	Apparent Value of b.	Apparent Value of a^1.	Apparent Value of b^1.	Adopted Value of a, assuming the Value of b ($-0{\cdot}00793$) as applicable to all.	Log. $\frac{1}{2}a = \text{Log.}\frac{m}{X}$	Adopted Time of Vibration of Deflecting Magnet.	Log. $m\,X$.	Value of X.	Value of m.	Value of X. In French Measure.
January 14	+0·15652	−0·00641	0·07853	0·00145	+0·15782	8·89713	5·842	0·05542	3·794	0·299	1·749
February 8	+0·15523	−0·00584	0·07959	0·00069	+0·15703	8·89496	5·816	0·05929	3·821	0·300	1·762
March 26	+0·15592	−0·00667	0·07894	0·00142	+0·15700	8·89485	5·835	0·05646	3·809	0·299	1·756
April 12	+0·15692	−0·00756	0·07871	0·00111	+0·15722	8·89547	5·840	0·05571	3·803	0·299	1·753
May 29	+0·15792	−0·01006	0·07805	0·00126	+0·15604	8·89220	5·825	0·05795	3·827	0·299	1·765
June 16	+0·14795	−0·00336	0·07416	0·00292	+0·15201	8·88084	5·903	0·04639	3·826	0·291	1·765
July 17	+0·15106	−0·00911	0·07059	0·00755	+0·15001	8·87508	5·966	0·03717	3·811	0·286	1·757
August 24	+0·14897	−0·00771	0·07249	0·00416	+0·14913	8·87255	5·946	0·04009	3·835	0·286	1·768
September 13	+0·14888	−0·00690	0·07353	0·00321	+0·14975	8·87434	5·926	0·04302	3·840	0·288	1·771
October 21	+0·15227	−0·01004	0·07644	−0·00044	+0·15041	8·87624	5·926	0·04302	3·832	0·288	1·767
November 3	+0·14847	−0·00609	0·06987	0·00752	+0·15005	8·87521	5·949	0·03965	3·821	0·287	1·762
December 31	+0·15543	−0·01544	0·07615	0·00084	+0·14885	8·87171	5·938	0·04126	3·844	0·286	1·773
	Mean -	−0·00793									

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

Month and Day, 1858.	Adopted Time of Vibration.	Temperature.	Log. $m\,X$. In English Measure.	Value of m interpolated from the Deflexion Observations. In English Measure.	Inferred Value of X. In English Measure.	Value of X. In French Measure.	Observer.
January 27	5·814	40·2	0·05959	0·299	3·836	1·768	N
February 5	5·830	51·6	0·05720	0·300	3·803	1·753	N
15	5·833	41·2	0·05676	0·300	3·799	1·751	N
March 18	5·830	54·2	0·05720	0·299	3·815	1·759	N
25	5·826	46·0	0·05780	0·299	3·821	1·762	N
29	5·815	61·0	0·05944	0·299	3·835	1·768	N
April 22	5·847	66·0	0·05467	0·299	3·793	1·748	E J H
27	5·830	48·2	0·05720	0·299	3·815	1·759	E J H
29	5·834	52·0	0·05660	0·299	3·810	1·756	E J H
May 1	5·828	48·0	0·05750	0·299	3·818	1·760	E J H
8	5·863	54·0	0·05230	0·299	3·773	1·739	E J H
26	5·847	56·0	0·05467	0·299	3·793	1·748	E J H
June 3	5·833	80·0	0·05676	0·296	3·850	1·775	E J H
10	5·853	76·7	0·05378	0·294	3·850	1·775	E J H
July 7	5·937	58·2	0·04141	0·288	3·820	1·761	N
29	5·933	64·5	0·04199	0·286	3·852	1·776	N
September 9	5·940	63·6	0·04097	0·287	3·829	1·765	N
27	5·960	66·2	0·03805	0·288	3·790	1·747	N
October 12	5·944	48·7	0·04038	0·288	3·811	1·756	N
November 2	5·935	46·3	0·04170	0·287	3·835	1·768	N
12	5·941	38·0	0·04082	0·287	3·828	1·765	N
22	5·928	40·5	0·04272	0·287	3·845	1·773	N
December 3	5·950	48·3	0·03951	0·286	3·830	1·766	N
20	5·957	45·5	0·03848	0·286	3·821	1·762	N
28	5·929	43·0	0·04258	0·286	3·857	1·778	N

The number of vibrations employed in each determination was 100.
The initials N and E J H are those of Mr. Nash and Mr. E. J. Hallam.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1858.

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 January 12, 13, 21; February 8, 22; March 1, 2, 3, 21, 23; April 9, 10, 15, 16, 17; May 4, 9, 14, 21, 23, 29; June 7, 9, 23, 24, 26; July 9, 17, 30; August 3, 24, 25; October 22; November 1.

The thermometer for the maximum temperature in the sun was out of order on February 19; March 7; August 3.

The thermometer for the maximum temperature of the water of the Thames was out of order on August 29, 30, 31; October 29, 31; from November 1 to 6; that for the minimum was out of order on August 29, 30, 31; from October 29 to November 6.

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, 1858.	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	..	30·344	48·0	31·6	40·0	38·7	53·5	28·8	44·8	43·2	1·3	4·2	0·0	+ 3·5	SE; S	Calm	0·0	0·0	0·0	30	0·00
2	..	30·314	44·4	33·7	40·4	38·8	45·5	30·0	44·3	42·8	1·6	4·0	0·0	+ 4·0	Calm	Calm	0·0	0·0	0·0	10	0·00
3	..	30·380	42·2	32·0	35·5	32·3	41·0	26·5	44·3	43·1	3·2	4·8	2·1	— 0·9	SW	SE	0·0	0·0	0·0	65	0·00
4	..	30·325	36·6	27·1	30·8	27·4	42·2	21·6	43·5	43·0	3·4	4·9	0·5	— 5·5	SE	NE	0·0	0·0	0·0	80	0·00
5	In Equator	30·177	29·0	25·2	27·6	25·5	30·3	15·0	42·5	41·9	2·1	3·1	0·5	— 8·5	NE	NE	1·5	0·0	0·0	85	0·00
6	..	30·068	29·8	20·9	25·4	22·0	30·0	13·0	40·3	39·7	3·4	5·9	2·3	—10·6	Calm	S	0·0	0·0	0·0	80	0·00
7	Last Qr.	30·090	38·0	23·8	31·2	27·4	38·2	15·0	40·3	39·7	3·8	7·0	2·1	— 4·6	S	S; SW	1·0	0·0	0·0	105	0·00
8	..	30·018	50·4	33·1	44·6	43·5	50·4	23·0	39·1	38·6	1·1	2·9	1·1	+ 9·1	SW	SW	2·0	0·0	0·2	225	0·10
9	..	29·978	51·9	41·5	46·0	43·7	52·0	44·0	42·1	40·5	2·3	3·6	0·0	+10·6	SW	W	3·5	0·0	0·8	225	0·00
10	Apogee	30·093	50·9	37·7	46·4	43·1	53·0	29·0	38·8	38·3	3·3	5·5	0·0	+10·7	SW	SW	3·3	0·0	0·5	240	0·06
11	..	30·101	49·2	34·9	41·9	38·4	51·0	33·9	40·3	39·7	3·5	9·1	0·0	+ 6·3	SW	NW	2·5	0·0	0·3	80	0·09
12	..	30·376	46·0	29·4	38·0	32·5	50·7	..	40·3	39·7	5·5	7·9	3·8	+ 2·4	SW	SW	0·0	0·0	0·0	175	0·00
13	Greatest Declination S.	30·159	46·3	32·3	39·7	35·9	44·7	..	40·3	39·7	3·8	6·8	1·8	+ 4·1	SW	NW; Calm	0·0	0·0	0·0	25	0·00
14	..	30·233	43·2	30·4	35·3	34·3	43·5	21·6	40·3	39·7	1·0	3·0	0·0	— 0·3	SW	SW	0·0	0·0	0·0	80	0·00
15	New	30·216	42·0	31·5	36·5	35·0	42·0	25·2	40·3	39·7	1·5	2·2	0·0	+ 1·0	SW	WSW	0·0	0·0	0·0	130	0·00
16	..	30·287	49·0	33·8	40·6	37·1	50·0	30·0	40·3	38·8	3·5	5·5	1·8	+ 5·1	SW	N	0·0	0·0	0·0	65	0·00
17	..	30·530	38·0	33·0	34·6	26·9	38·2	27·0	39·3	38·8	7·7	8·2	2·6	— 1·3	N	WSW	0·0	0·0	0·0	85	0·00
18	..	30·306	45·5	31·6	38·3	36·3	49·2	22·7	39·3	38·8	2·0	4·8	1·2	+ 2·0	SW	SW	0·0	0·0	0·0	120	0·00
19	..	30·154	47·0	36·3	41·6	37·9	48·5	30·2	39·1	37·3	3·7	7·4	1·2	+ 5·1	SW	WSW	3·5	0·0	0·3	245	0·00
20	In Equator	29·753	50·0	38·3	44·1	34·7	55·2	35·2	38·8	38·3	9·4	14·9	5·5	+ 7·3	SW	NW	5·0	0·3	1·8	320	0·00
21	..	30·092	38·0	33·2	35·3	25·2	47·4	..	39·1	38·3	10·1	12·7	4·2	— 1·8	NW	NNE	4·5	0·0	1·3	205	0·00
22	First Qr.	30·340	39·2	30·5	34·5	27·0	48·0	21·7	37·8	37·6	7·5	10·7	3·9	— 2·8	NNE	N; NW	0·0	0·0	0·0	70	0·00
23	..	30·440	40·2	30·7	34·2	30·1	41·3	19·6	38·3	37·8	4·1	8·4	1·5	— 3·3	W	Calm	0·0	0·0	0·0	40	0·00
24	..	30·445	41·8	25·3	32·0	28·8	51·2	15·2	38·8	38·3	3·2	7·8	2·0	— 5·8	WNW	WNW	0·0	0·0	0·0	15	0·00
25	..	30·260	42·2	21·4	32·9	28·0	48·4	10·2	38·3	37·8	4·9	10·1	0·0	— 5·1	W; SW	S	0·0	0·0	0·0	65	0·00
26	Perigee	29·990	33·0	26·7	29·6	22·1	41·6	16·7	38·3	37·8	7·5	9·9	3·7	— 8·7	SSE	SSE	0·0	0·0	0·0	105	0·00
27	Greatest Declination N.	29·997	44·4	29·5	36·2	30·3	56·5	21·7	38·3	37·8	5·9	9·5	4·1	— 2·1	SSE	S	0·0	0·0	0·0	55	0·00
28	..	30·113	50·0	28·0	38·7	32·6	62·5	19·0	38·8	36·5	6·1	13·9	1·4	+ 0·6	S	SW	0·0	0·0	0·0	105	0·00
29	Full	30·126	50·0	40·0	44·7	42·0	55·4	26·0	36·1	35·9	2·7	6·1	1·8	+ 6·8	SW	SW	2·0	0·0	0·1	235	0·00
30	..	29·794	51·0	43·9	48·3	47·8	51·0	41·0	38·3	36·0	0·5	3·2	0·0	+10·7	SW	W	3·0	0·0	0·3	230	0·26
31	..	29·818	45·0	34·3	37·8	33·3	53·5	40·0	37·8	37·4	4·5	5·8	3·0	+ 0·5	W; NE	NE; W	0·0	0·0	0·0	110	0·25
Means	..	30·171	43·6	31·7	37·5	33·5	47·3	25·1	39·9	39·1	4·0	6·9	1·7	+ 0·9	...	...	..	..	..	Sum 3705	Sum 0·76

BAROMETER READINGS.

The first maximum in the month was 30in·455 on the 12th; the second minimum ,, was 30in·144 on the 13th.
The absolute maximum ,, was 30in·557 on the 17th; the absolute minimum ,, was 29in·733 on the 20th.
The third maximum ,, was 30in·489 on the 24th; the fourth minimum ,, was 29in·930 on the 26th.
The fourth maximum ,, was 30in·160 on the 29th.
The first minimum in the month was 29in·920 on the 9th.
The range in the month was 0in·824. The mean for the month was 30in·171, being 0in·449 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 51°·9 on the 9th; the lowest was 20°·9 on the 6th; and the range in the month was 31°·0.
The mean ,, of all the highest daily readings was 43°·6, being 0°·6 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 31°·7, being 1°·9 *lower* than the average of the preceding 17 years.
The mean daily range was 11°·9, being 2°·5 *higher* than the average of the preceding 17 years.
The mean for the month was 37°·5, being 0°·6 *lower* than the average of the preceding 17 years.

MONTH and DAY, 1858.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Jan. 1	s	s	o	o : 10, ci, ci.-cu
2	s	s	10, cu, ci.-cu, th.-f	10, cu, ci.-cu
3	s	s	10	10 : o
4	m	m : s	o	8, ci, ci.-cu
5	m	m	10, sn	10, sn
6	o	o : w	8	10 : 8
7	s	s	8, ci.-cu, ci	o
8	o	o	10, r	10, oc.-r
9	v	v	10, s, ci.-s, th.-r	10, cu, ci.-cu, ci.-s, r : o, f
10	s	s	8, ci.-s, ci	10 : th.-r
11	w	w	10, r	o
12	m	s	o, h.-fr	o : 8, ci.-s
13	s	s : sps, g cur	8	8 : o, f
14	s, sps, g cur	s, sps, g cur	o, h.-fr	8, cu, ci.-cu, ci : 1
15	s	s	10	10 : 8, ci, f
16	ss, sps, g cur	w : ss, sps, g cur	o, h : 10, r	10
17	v	v	10, th.-f	10 : o, f
18	s	s	8, ci.-cu, h.-fr	7, ci.-cu, ci.-s, f : o
19	s	s	10, ci.-s	5, ci, ci.-s : o
20	w	w	10	o
21	w	w	o : 10, sn	10, sn : o
22	w	w	10, ci.-cu, ci.-s	o : 10, f, sn
23	w	w	7, ci, f	7, ci, h : o, f
24	s	s : s, sps, g cur	o, h.-fr	7, ci.-cu, ci : 10, ci.-s
25	w	w	7, ci.-cu	7, ci, ci.-s : o : 10, cu.-s, sc
26	w	w	o, h.-fr	7, cu, ci.-cu : o
27	w	w	o	o
28	w	w	o	o : f
29	w	w	10, ci.-cu, cu.-s, ci, sl.-r	10
30	o	o	10, r	10, r
31	v	v	7, ci : o	o : f

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 49°·5 on the 30th; and the lowest was 17°·9 on the 26th.
The mean ,, was 33°·5, being 1°·9 *less* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}\cdot192$, being $0^{in}\cdot013$ *less* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $2^{gr}\cdot2$, being $0^{gr}\cdot2$ *less* 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 3 *less* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 563 grains, being 10 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 5·6.

WIND.

The proportions were of N. 5, S. 11, W. 12, and E. 3. The greatest pressure in the month was 5^{lbs} on the square foot on the 20th.

RAIN.

Fell on 5 days in the month, amounting to $0^{in}\cdot8$ as measured in the simple cylinder gauge partly sunk below the ground; being $1^{in}\cdot2$ *less* than the average fall of the preceding 17 years.

MONTH and DAY, 1858.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	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.	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.
Feb. 1	In Equator	29·742	37·8	29·5	32·0	21·1	43·0	22·5	38·3	37·8	10·9	14·6	9·2	— 5·2	W ; NW	NW	3·3	0·0	0·2	160	0·00
2	..	29·675	34·2	26·3	29·5	23·9	37·7	17·0	38·3	37·8	5·6	11·5	0·3	— 7·5	W ; SW	S ; ESE	0·0	0·0	0·0	30	0·30
3	..	29·650	47·0	30·5	37·9	37·8	46·0	28·0	38·1	37·7	0·1	2·9	0·0	+ 0·6	ESE	SW	2·0	0·0	0·0	270	0·00
4	..	29·469	50·0	41·7	44·2	42·2	49·5	14·7	38·8	38·3	2·0	2·6	0·9	+ 6·5	SW	SW	3·0	0·0	0·3	160	0·47
5	Last Qr.	29·876	52·8	36·2	43·4	41·2	52·5	30·0	39·6	39·1	2·2	8·0	1·3	+ 5·0	SW	SW	0·0	0·0	0·0	135	0·00
6	..	29·934	47·2	35·9	40·1	37·2	58·2	32·0	40·8	40·2	2·9	6·5	0·0	+ 1·1	SE	SE	0·0	0·0	0·0	70	0·00
7	Apogee	29·860	45·7	27·7	35·4	31·6	57·8	20·0	42·3	40·6	3·8	8·6	3·3	— 3·8	SE	ESE	0·0	0·0	0·0	45	0·00
8	..	29·934	39·5	27·0	31·7	24·5	56·0	..	41·3	40·6	7·2	12·5	4·1	— 7·5	ESE	ESE	0·0	0·0	0·0	95	0·00
9	Greatest Declination S.	29·969	38·0	27·7	32·0	25·8	45·8	21·0	40·3	39·7	6·2	8·6	4·1	— 7·0	SE	SE	0·0	0·0	0·0	100	0·00
10	..	29·963	39·0	29·3	31·8	28·9	52·0	23·0	40·8	39·7	2·9	5·0	0·4	— 6·9	ESE	ENE	0·0	0·0	0·0	60	0·00
11	..	29·896	35·8	28·5	31·2	29·6	36·0	28·0	39·8	38·3	1·6	7·8	1·9	— 7·3	NE	NE	0·0	0·0	0·0	10	0·00
12	..	30·062	43·8	32·0	37·4	37·3	45·0	29·0	39·3	37·8	0·1	1·8	0·0	— 0·9	NE	ENE	0·0	0·0	0·0	25	0·01
13	New	29·995	43·8	38·8	40·4	40·3	45·8	38·0	39·8	37·8	0·1	0·4	0·0	+ 2·2	ENE	ENE	0·0	0·0	0·0	20	0·07
14	..	29·784	41·5	34·0	36·7	36·5	40·5	39·2	39·8	39·3	0·2	0·7	0·0	— 1·3	ENE	ENE	0·0	0·0	0·0	110	0·81
15	..	29·804	42·9	30·5	36·0	33·3	49·8	24·1	39·1	38·3	2·7	7·1	1·3	— 2·1	NE	NNE	0·0	0·0	0·0	70	0·06
16	In Equator	29·871	47·0	33·2	37·3	31·5	61·4	25·2	40·1	38·8	5·8	7·8	3·9	— 0·8	NNE	NNE	0·0	0·0	0·0	45	0·00
17	..	30·027	46·0	27·9	35·6	32·4	62·2	28·2	39·1	38·6	3·2	7·9	2·6	— 2·6	N	ESE	0·0	0·0	0·0	20	0·00
18	..	30·002	38·0	27·7	30·8	22·9	49·2	20·0	39·3	38·8	7·9	10·6	5·1	— 7·5	SE	E	0·0	0·0	0·0	85	0·00
19	..	29·865	37·0	24·0	30·0	26·4	..	12·2	38·8	38·3	3·6	7·8	2·2	— 8·4	ESE	E	0·0	0·0	0·0	50	0·00
20	..	29·753	39·6	25·9	31·6	26·0	52·0	17·2	38·1	37·6	5·6	11·5	4·8	— 6·9	ESE	SE	0·0	0·0	0·0	90	0·00
21	First Qr.	29·785	42·0	28·0	33·3	29·4	55·2	20·2	38·3	37·8	3·9	8·3	3·1	— 5·2	SE	ESE	0·0	0·0	0·0	65	0·00
22	Perigee ; Greatest Dec. N.	29·687	39·7	27·5	33·1	31·0	53·0	..	38·8	38·3	2·1	7·7	0·8	— 5·5	SE	E	2·5	0·0	0·3	130	0·00
23	..	29·633	40·2	29·9	35·1	31·7	42·5	23·0	37·3	36·9	3·4	6·7	1·8	— 3·8	E	ESE	0·0	0·0	0·0	50	0·00
24	..	29·957	44·1	31·3	35·4	27·9	59·0	25·8	36·8	36·4	7·5	9·7	4·3	— 3·7	E	E	1·0	0·0	0·0	70	0·00
25	..	30·136	40·0	25·7	31·4	22·5	53·7	19·4	37·3	36·9	8·9	13·7	4·2	— 8·1	NE	NE	3·0	0·0	0·3	105	0·00
26	..	29·924	37·2	23·5	30·3	24·2	50·8	14·0	36·8	36·0	6·1	10·7	4·8	— 9·4	NE	NE	1·0	0·0	0·1	70	0·00
27	Full	29·735	41·0	28·3	33·0	25·6	54·6	25·6	37·3	36·0	7·4	13·6	3·8	— 6·8	NNE	E	0·0	0·0	0·0	75	0·00
28	..	29·558	40·2	25·3	32·3	27·2	44·0	17·0	36·8	36·0	5·1	8·3	1·5	— 7·7	NE	ENE	3·0	0·0	0·2	115	0·00
Means	..	29·841	41·8	29·8	34·6	30·3	50·1	23·6	39·0	38·2	4·2	8·0	2·5	— 3·9	...	...	..	..	..	Sum 2330	Sum 1·72

BAROMETER READINGS.

The absolute minimum in the month was 29in·393 on the 4th.

The first maximum in the month was 30in·017 on the 10th; the second minimum ,, was 29in·863 on the 11th.

The second maximum ,, was 30in·089 on the 12th; the third minimum ,, was 29in·782 on the 14th.

The third maximum ,, was 30in·042 on the 17th; the fourth minimum ,, was 29in·566 on the 23d.

The absolute maximum ,, was 30in·206 on the 25th;

The range in the month was 0in·813.

The mean for the month was 29in·841, being 0in·063 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 52°·8 on the 5th; the lowest was 23°·5 on the 26th; and the range in the month was 29°·3.

The mean ,, of all the highest daily readings was 41°·8, being 2°·7 *lower* than the average of the preceding 17 years.

The mean ,, of all the lowest daily readings was 29°·8, being 3°·6 *lower* than the average of the preceding 17 years.

The mean daily range was 12°·0, being 0°·9 *higher* than the average of the preceding 17 years.

The mean for the month was 34°·6, being 3°·9 *lower* than the average of the preceding 17 years.

MONTH and DAY, 1858.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Feb. 1	w	o	o	10, cu, s : o
2	ss, sps, g cur	ss, sps, g cur	10, sn	10, sn
3	s	s	10	10 : r
4	w	w	10, sl.-r : h.-r	10, h.-r : o
5	w	w	7, s	7, ci, ci.-s : o, h
6	m	m	10, cu, ci.-cu	7, cu, ci.-cu, ci : o
7	m	m	3, s, ci	o
8	m	m	o	o
9	v, sps, g cur	v, sps, g cur	7, h.-fr	8, ci, ci.-s : o
10	m	m	10, ci.-cu, ci	10, cu, ci.-cu, ci
11	w	o	10	10
12	o	o : s	10, r	10 : th.-r
13	N, s, sps, g cur	N, s, sps, g cur	10, f	10, h.-r
14	o	o	10, h.-r	10, h.-r : sn, sl
15	s	o	10	10
16	w	s	10, cu, ci-cu, ci	10, cu, ci.-cu, ci, sl.-r
17	s, sps, g cur	s, sps, g cur	o, h.-fr	o
18	v	v	o	o
19			o	o
20			o	o
21			3, ci, ci.-s, h.-fr : 9, cu, ci.-cu, ci	o
22			o	o
23			10, sn	10 : sl.-r
24			7 : o	o
25			o, h.-fr	o
26			o	o : 10
27			o	o
28			10, ci.-cu, cu.-s, ci.-s	10, ci.-cu, cu.-s, ci.-s

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 46°·0 on the 4th ; and the lowest was 18°·8 on the 25th.

The mean ,, was 30°·3, being 4°·4 *less* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}·169$, being $0^{in}·034$ *less* than the average of the preceding 17 years.

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

Degree of Humidity.—The mean for the month was 84 (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 560 grains, being 7 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 5·1.

WIND.

The proportions were of N. 7, S. 4, W. 3, and E. 14. The greatest pressure in the month was $3^{lbs}·3$ on the square foot on the 1st.

RAIN.

Fell on 6 days in the month, amounting to $1^{in}·7$, 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.—February 19, the insulating lamp was not burning till March 5.

MONTH and DAY, 1858.	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 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.
Mar. 1	In Equator	29·415	34·3	26·2	29·6	23·6	41·2	..	36·8	35·1	6·0	11·2	2·2	—10·5	ENE	E	3·0	0·0	0·3	165	0·00
2	..	29·496	34·2	26·3	29·4	25·1	33·0	..	36·8	35·1	4·3	6·4	2·0	—10·6	E	ENE	4·0	0·0	1·0	195	0·04
3	..	29·567	33·7	27·2	29·6	24·7	33·7	..	34·8	34·1	4·9	9·1	2·3	—10·3	ENE	NE	2·0	0·0	0·1	95	0·30
4	..	29·539	43·0	25·9	33·3	24·0	58·6	24·6	34·8	34·5	9·3	14·0	8·0	— 6·6	NE	NE	0·0	0·0	0·0	35	0·00
5	..	29·435	39·8	28·4	33·1	29·6	40·0	21·1	34·3	34·1	3·5	7·4	2·0	— 6·9	N	NE; NW	0·0	0·0	0·0	140	0·00
6	..	28·930	39·5	27·7	32·9	24·2	48·0	24·8	35·0	35·0	8·7	11·1	3·6	— 7·2	SW; NW	NW	0·0	0·0	0·0	165	0·01
7	Apogee; Last Qarter.	29·113	40·5	27·5	33·1	30·2	..	21·0	34·8	34·8	2·9	9·1	0·8	— 7·0	W	W; SW	0·0	0·0	0·0	200	0·00
8	Greatest Declination S.	29·262	41·7	26·7	31·1	29·1	50·0	26·0	35·1	34·9	2·0	8·1	0·0	— 9·0	SW; NW	NW	4·0	0·0	0·2	135	0·00
9	..	29·521	41·6	27·5	33·2	24·8	49·5	21·5	35·3	35·1	8·4	11·6	5·8	— 7·0	WSW	WNW	0·0	0·0	0·0	145	0·00
10	..	29·691	44·0	30·3	35·3	30·0	51·0	22·8	35·3	35·1	5·3	11·7	1·4	— 5·0	W	NW; NE	0·0	0·0	0·0	15	0·00
11	..	29·858	43·0	23·6	32·4	22·9	60·5	15·0	35·3	35·1	9·5	15·9	7·4	— 8·1	NE	N	0·0	0·0	0·0	20	0·00
12	..	30·009	41·4	25·2	32·6	29·2	50·2	15·0	35·3	35·1	3·4	6·2	1·0	— 8·0	N; NW	WNW	0·0	0·0	0·0	170	0·00
13	..	29·231	50·8	35·0	44·9	43·2	53·2	27·3	35·6	35·4	1·7	3·8	0·0	+ 3·9	SW	W; WSW	3·0	0·0	0·1	180	0·25
14	..	29·333	49·2	36·9	42·8	35·8	58·0	31·8	36·8	36·5	7·0	9·9	2·6	+ 1·5	W	W; NW	5·0	0·0	0·5	215	0·08
15	New; In Equator	29·786	51·4	39·5	45·8	38·8	52·0	39·0	37·3	37·0	7·0	12·8	0·7	+ 4·3	NW	W; NW	2·0	0·0	0·2	100	0·00
16	..	29·940	60·0	42·7	50·8	43·2	77·0	35·8	38·5	38·1	7·6	13·7	5·5	+ 9·1	W	W	0·0	0·0	0·0	105	0·00
17	..	30·121	54·4	44·2	48·3	43·0	58·0	38·0	39·6	38·9	5·3	8·4	3·8	+ 6·5	W	WSW	0·0	0·0	0·0	40	0·02
18	..	30·070	57·0	41·5	48·5	39·0	71·7	41·5	39·3	38·8	9·5	14·2	4·2	+ 6·7	WSW	W	0·0	0·0	0·0	30	0·00
19	Perigee	30·185	61·4	41·9	49·5	42·3	78·6	36·5	41·3	40·7	7·2	14·8	2·2	+ 7·7	Calm	Calm	0·0	0·0	0·0	0	0·00
20	..	30·306	59·7	42·5	50·3	39·9	81·8	40·2	42·8	41·4	10·4	17·6	2·0	+ 8·4	Calm	Calm	0·0	0·0	0·0	5	0·00
21	..	30·354	61·7	33·9	47·4	38·0	77·0	..	45·3	43·8	9·4	18·4	3·6	+ 5·5	Calm	Calm	0·0	0·0	0·0	5	0·00
22	Greatest Dec. N. First Quarter	30·422	61·6	31·7	46·1	38·8	80·2	24·6	46·7	45·0	7·3	16·7	4·8	+ 4·2	Calm	SE	0·0	0·0	0·0	15	0·00
23	..	30·326	65·0	33·0	49·0	42·3	74·4	..	45·6	44·3	6·7	17·8	2·1	+ 7·0	Calm	Calm	0·0	0·0	0·0	5	0·00
24	..	30·013	68·7	40·7	54·8	43·4	84·6	35·0	46·3	45·0	11·4	22·5	1·4	+12·7	Calm	NW	0·0	0·0	0·0	10	0·00
25	..	30·106	53·7	37·3	42·5	32·9	67·0	36·2	46·3	45·0	9·6	13·0	5·2	+ 0·3	NE	NE	0·0	0·0	0·0	55	0·00
26	..	30·072	54·2	31·1	42·6	33·1	72·6	21·0	46·6	45·2	9·5	17·8	5·2	+ 0·3	E	W	0·0	0·0	0·0	40	0·00
27	..	30·034	54·0	33·6	43·5	35·7	68·0	26·8	47·3	45·0	7·8	16·2	4·6	+ 1·1	WSW	N	0·0	0·0	0·0	10	0·00
28	In Equator	29·994	57·0	36·9	46·7	38·8	77·0	29·0	46·3	45·0	7·9	16·0	0·7	+ 4·1	SE	SW	0·0	0·0	0·0	50	0·00
29	Full	29·820	61·8	37·5	49·0	37·2	81·7	28·0	47·3	45·5	11·8	20·5	7·0	+ 7·1	SSW	SW	0·0	0·0	0·0	75	0·00
30	..	29·553	59·0	35·9	48·2	44·1	78·7	26·0	47·3	45·8	4·1	11·2	3·8	+ 5·2	SSW	SW	2·0	0·0	0·0	115	0·02
31	..	29·102	54·5	43·0	48·1	44·6	63·0	40·0	47·7	46·1	3·5	6·8	2·5	+ 4·7	SW	SW	2·5	0·0	0·2	150	0·10
																				Sum	Sum
Means	..	29·761	50·7	33·6	41·4	34·5	62·3	28·8	40·2	39·4	6·9	12·7	3·2	+ 0·1	...	...	..	..	..	2685	0·82

BAROMETER READINGS.

The first maximum in the month was 29in·656 on the 3rd; the second maximum ,, was 30in·071 on the 12th; the third maximum ,, was 29in·508 on the 14th; the absolute maximum ,, was 30in·448 on the 22nd; the fifth maximum ,, was 30in·158 on the 25th.

The first minimum in the month was 29in·388 on the 1st; the absolute minimum ,, was 28in·882 on the 6th; the third minimum ,, was 29in·143 on the 13th; the fourth minimum ,, was 29in·378 on the 14th; the fifth minimum ,, was 29in·951 on the 24th; the sixth minimum ,, was 28in·938 on the 31st.

The range in the month was 1in·566.

The mean for the month was 29in·761, being 0in·041 *lower* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 68°·7 on the 24th; the lowest was 23°·6 on the 11th; and the range in the month was 45°·1.

The mean ,, of all the highest daily readings was 50°·7, being 1°·0 *higher* than the average of the preceding 17 years.

The mean ,, of all the lowest daily readings was 33°·6, being 1°·5 *lower* than the average of the preceding 17 years.

The mean daily range was 17°·1, being 2°·4 *higher* than the average of the preceding 17 years.

The mean for the month was 41°·4, being 0°·2 *lower* than the average of the preceding 17 years.

MONTH and DAY, 1858.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Mar. 1			10	10, sn
2			10, sn	10
3			10, sn	10, sn
4			0	10
5		m	10, sn	v, ci.-cu
6	N, s	m	10, sn, r	0
7	w	w	v, li.-cl	v, li.-cl
8	o	o : w	10, sn, hl, f	10, sn
9	s	s : s, sps	0 : 8	0
10	s	s	5, oc.-sn	5, ci.-cu, ci
11	m	s	0	0
12	s	s	10, ci.-cu	10
13	o	o : w	10, r	10, cu, ci.-cu : o
14	w	w	7, cu, ci.-s, s	10, r : o
15	w	N, s : s	0	10, ci.-cu, ci : 7
16	o	w	0	0 : 10
17	o	o	10, ci.-cu, ci.-s, ci, h	10, cu, ci.-cu, n : 7
18	s	s	0	9, cu, ci.-cu : 7, ci, h
19	v	v	10, cu, ci.-cu	10, cu, ci.-cu
20	s	s	0	7, ci.-cu
21	w	w	0	0
22	s	s : s, sps	0	0
23	s	s	0, h	0
24	s	s	0	0 : f
25	v	v : s, sps	10, ci.-cu	10, cu, ci.-cu
26	v	v	0	7, cu, ci.-cu, ci : o
27	v	v	10, h	5, ci : 10, cu, ci.-cu
28	s	s	3, ci	3, ci, ci.-s
29	v	v	0	0
30	s	s	10, shs.-r	10, cu, ci.-cu, sl.-r
31	w	o	10	10, sl.-r

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 48°·1 on the 30th; and the lowest was 20°·2 on the 1st.
The mean ,, was 34°·5, being 1°·8 *less* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}\cdot199$, being $0^{in}\cdot017$ *less* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $2^{gr}\cdot3$, being $0^{gr}\cdot2$ *less* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 78 (that of Saturation being represented by 100), being 4 *less* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 551 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 5·4.

WIND.

The proportions were of N. 7, S. 4, W. 15, and E. 5. The greatest pressure in the month was $5^{lbs}\cdot0$ on the square foot on the 14th.

RAIN.

Fell on 8 days in the month, amounting to $0^{in}\cdot8$, as measured in the simple cylinder gauge partly sunk below the ground; being $0^{in}\cdot5$ *less* than the average fall of the preceding 17 years.

MONTH and DAY, 1858.	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	..	29·439	48·3	34·7	38·4	32·5	51·0	31·2	48·8	46·8	5·9	9·2	0·8	— 5·2	N	NNE	3·0	0·0	0·5	135	0·12
2	..	29·684	44·0	27·2	34·7	29·1	53·2	29·0	48·1	45·8	5·6	13·6	2·6	— 9·4	Calm	WSW; SSE	0·0	0·0	0·0	60	0·00
3	..	29·450	59·5	33·3	47·3	44·3	75·2	34·0	48·3	46·8	3·0	9·8	2·3	+ 2·8	Calm; WSW	W	3·5	0·0	0·5	215	0·18
4	Apogee; Greatest Dec. S.	29·912	54·4	36·5	43·1	39·1	69·8	38·4	48·9	45·8	4·0	8·6	2·6	— 1·7	W	NE	0·0	0·0	0·0	90	0·00
5	..	29·764	47·6	34·4	39·9	32·2	61·4	28·3	48·8	45·8	7·7	11·0	2·2	— 5·2	SE	SE	5·0	0·0	0·5	225	0·00
6	Last Qr.	29·721	43·3	37·4	38·9	34·4	46·0	36·8	47·8	45·4	4·5	8·1	3·4	— 6·5	ESE	E	2·0	0·0	0·1	75	0·03
7	..	29·587	43·2	37·1	39·3	37·5	45·0	31·1	47·3	45·0	1·8	4·4	0·0	— 6·2	E	E	2·5	0·0	0·1	140	0·20
8	..	29·405	57·0	39·2	44·5	43·4	58·0	39·0	47·3	45·0	1·1	5·0	0·0	— 1·0	Calm	E	0·0	0·0	0·0	135	0·59
9	..	29·617	44·6	34·3	37·1	32·6	48·5	..	47·3	45·0	4·5	6·0	1·9	— 8·3	E	ENE	2·0	0·0	0·0	100	0·20
10	..	29·699	49·0	34·0	39·4	31·1	64·0	..	46·3	43·6	8·3	13·2	5·9	— 5·7	NE	NE	1·8	0·0	0·0	110	0·03
11	..	29·755	56·2	27·9	39·2	31·8	70·4	18·0	44·3	42·5	7·4	19·4	3·9	— 5·8	N	NW; NE	0·0	0·0	0·0	25	0·00
12	In Equator	29·789	44·0	34·7	37·9	30·8	63·0	33·2	44·3	42·9	7·1	10·6	2·6	— 7·0	NE	Calm; NE	0·0	0·0	0·0	10	0·00
13	New	29·902	49·0	34·5	39·6	30·0	64·0	30·5	45·3	43·6	9·6	14·3	5·4	— 5·6	NE	E; SE	0·0	0·0	0·0	25	0·00
14	..	30·009	57·2	30·9	44·7	34·8	69·4	22·3	45·8	44·0	9·9	18·4	3·0	— 0·8	SE	SE	0·0	0·0	0·0	75	0·00
15	..	29·870	68·0	44·9	55·5	42·2	82·5	..	46·9	44·4	13·3	21·2	5·5	+ 9·8	S	SSW	0·0	0·0	0·0	85	0·00
16	Perigee	29·778	76·0	48·8	60·1	49·9	102·3	..	49·3	46·6	10·2	21·1	2·5	+14·1	SW	Calm	0·0	0·0	0·0	10	0·00
17	..	29·644	58·6	46·5	49·8	46·7	61·7	..	50·3	46·0	3·1	8·0	2·0	+ 3·6	NE	NE	0·0	0·0	0·0	20	0·22
18	Greatest Declination N.	30·055	62·0	36·7	47·8	40·6	84·2	30·0	52·3	49·5	7·2	18·4	0·8	+ 1·4	NE	E	0·0	0·0	0·0	10	0·00
19	..	29·931	65·7	34·3	49·8	40·2	87·2	22·6	52·3	49·5	9·6	21·7	1·0	+ 3·3	E	SE	0·0	0·0	0·0	30	0·00
20	First Qr.	29·948	68·0	37·1	52·6	44·3	88·5	29·2	53·8	49·5	8·3	19·1	1·7	+ 5·9	SE; N	NNE; ESE	0·0	0·0	0·0	0	0·00
21	..	30·112	71·1	38·1	55·0	45·0	91·9	28·8	54·7	50·9	10·0	24·7	1·2	+ 8·0	ESE	Calm	0·0	0·0	0·0	5	0·00
22	..	30·251	72·9	42·7	56·2	44·7	94·7	37·3	56·7	53·2	11·5	23·9	6·9	+ 8·7	ESE	E	0·0	0·0	0·0	40	0·00
23	..	30·107	69·3	40·3	54·2	43·3	89·6	30·4	56·7	52·7	10·9	22·1	6·7	+ 6·6	E	ENE	0·0	0·0	0·0	90	0·00
24	In Equator	29·971	67·0	42·0	54·3	41·5	89·0	31·8	56·7	53·2	12·8	22·7	1·5	+ 6·7	ENE; SW	W	0·0	0·0	0·0	110	0·00
25	..	29·860	60·7	44·5	49·6	45·3	77·3	34·5	58·7	53·2	4·3	12·9	2·0	+ 2·0	SW	Calm	0·0	0·0	0·0	110	0·07
26	..	29·922	61·8	42·6	48·2	43·0	80·0	34·0	57·7	53·2	5·2	14·3	1·8	+ 0·6	NW	NE; Calm	0·0	0·0	0·0	15	0·00
27	..	29·945	50·0	38·9	44·0	41·1	55·0	31·0	57·7	53·2	2·9	7·6	1·4	— 4·0	Calm; N	NE	0·0	0·0	0·0	10	0·00
28	Full	29·873	65·0	44·0	51·4	42·5	87·3	42·2	56·9	53·2	8·9	18·7	2·6	+ 2·0	NE; Calm	SW	0·0	0·0	0·0	0	0·00
29	..	29·394	58·0	40·9	48·8	44·4	77·3	31·2	56·7	53·2	4·4	10·1	3·0	— 0·3	S	SW	0·0	0·0	0·0	40	0·60
30	..	28·988	56·4	40·8	44·6	35·6	74·2	39·8	56·9	53·2	9·0	16·6	6·2	— 4·9	SW	SW	0·0	0·0	0·0	200	0·10
Means	..	29·779	57·6	38·0	46·2	39·1	72·1	31·8	51·1	48·1	7·1	14·5	2·8	— 0·1	...	...	..	..	..	Sum 2195	Sum 2·34

BAROMETER READINGS.

The first maximum in the month was 29in·798 on the 2nd; the first minimum in the month was 29in·427 on the 3rd.
The second maximum ,, was 30in·003 on the 4th; the absolute minimum ,, was 29in·367 on the 8th.
The third maximum ,, was 30in·035 on the 14th; the third minimum ,, was 29in·738 on the 16th.
The fourth maximum ,, was 30in·087 on the 18th; the fourth minimum ,, was 29in·911 on the 19th.
The absolute maximum ,, was 30in·270 on the 22nd. The lowest reading was 28in·976 on the 30th, the barometer still falling.
The range in the month was 0in·903.
The mean for the month was 29in·779, being 0in·043 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 76°·0 on the 16th; the lowest was 27°·2 on the 2nd.
The range ,, was 48°·8.
The mean ,, of all the highest daily readings was 57°·6, being 0°·6 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 38°·0, being 0°·9 *lower* than the average of the preceding 17 years.
The mean daily range was 19°·6, being 1°·5 *higher* than the average of the preceding 17 years.
The mean for the month was 46°·2, being 0°·3 *lower* than the average of the preceding 17 years.

MONTH and DAY, 1858.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
April 1			10, r	10, oc.-r : 0
2			10, ci.-s, ci, h	10, ci.-cu, cu.-s, shs.-sn.-hl
3			10, cu, ci.-cu	10, cu, ci.-cu, ci.-s, shs.-r, t : 0
4			7, ci.-cu, s	7, ci.-cu, s, sl.-r : 0
5			7, ci.-cu	7, ci.-cu : 10, r
6			10, sl.-r	10, sl.-r
7			10, sl.-r	10, r
8			10, ci-cu, ci	10, cu, ci.-cu, ci, sl.-r
9			10, ci.-s, sn	10, s, ci.-s
10			7, ci.-cu, ci.-s, ci	10, ci.-cu, ci.-s : 3, ci : 0
11			0	0
12			7, li.-cl	10, ci.-s
13	m	m	10, cu, ci.-cu, ci	10, ci.-cu, ci.-s, ci : 0
14	s	s	0 : 10	10, ci.-cu, ci
15	w	w : s	7, ci.-cu, ci.-s	7, ci.-s : 0
16	ss	ss	3, ci.-cu, ci	3, ci.-cu : 10, l, h.-r
17	s	s	10, r	10, ci.-cu, ci.-s : 0, f
18	s	s	0, h	0
19	s	s	0	0
20	v	v : s, sps	10, ci.-cu, ci.-s, ci	10, cu.-s, ci.-s
21	s	s	0, h	0
22	m	m : s	0	0
23	s	s	0	0
24	w	v	7, ci.-cu, ci	7, ci.-cu, ci : 0
25	s	s	10, ci.-s, r	7, cu, cu.-s, ci.-s, r : 10, s, ci.-s
26	s	s : s, sps	10, s, ci.-s	10, s : 0 : 0, f
27	v	v	0, ci.-s, th.-f	10, ci.-s
28	s	s	10, s, f : 7, cu.-s	7, ci.-cu, cu.-s, ci.-s
29	o : v	v	10, ci.-cu, cu.-s, h.-r	10
30	P, N, s, sps, g cur	P, N, s, sps, g cur	10, cu, cu.-s, s, hl, h.-r	10, cu, n, t, h.-r : 7, s

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 52°·0 on the 16th; and the lowest was 25°·4 on the 1st.
The mean ,, was 39°·1, being 1°·0 *less* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0in·238, being 0in·012 *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·8, being 0gr·1 *less* 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 2 *less* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 545 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 6·2.

WIND.

The proportions were of N. 6, S. 6, W. 6, and E. 12. The greatest pressure in the month was 5lbs·0 on the square foot on the 5th.

RAIN.

Fell on 11 days in the month, amounting to 2in·3, as measured in the simple cylinder gauge partly sunk below the ground; being 0in·7 *greater* than the average fall of the preceding 17 years.

ELECTRICITY.—The apparatus was under repair from April 1 to April 12.

MONTH and DAY, 1858.	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.
May 1	Apogee	28·977	54·5	36·5	43·1	38·4	71·2	28·0	56·5	52·2	4·7	6·2	2·6	— 6·9	S	SW; NW	0·0	0·0	0·0	130	0·09
2	Greatest Declination S.	29·240	53·2	40·1	42·5	36·7	58·0	37·0	56·7	53·2	5·8	9·9	3·0	— 8·0	NW; NE	NE; N	0·0	0·0	0·0	55	0·15
3	..	29·405	57·0	37·5	45·9	37·1	78·0	33·8	56·7	52·7	8·8	15·6	2·2	— 5·0	N	E; NE	0·0	0·0	0·0	70	0·01
4	..	29·741	54·7	37·2	43·6	40·2	74·6	..	55·7	51·7	3·4	9·5	0·9	— 7·7	N	N	0·0	0·0	0·0	40	0·05
5	..	29·892	63·4	33·4	48·6	41·5	84·0	27·2	55·8	51·7	7·1	17·9	1·8	— 3·0	NW	NE	0·0	0·0	0·0	50	0·00
6	Last Qr.	30·179	60·0	38·3	48·2	37·4	82·5	29·8	53·3	51·7	10·8	18·1	6·9	— 3·6	NE	NE	0·0	0·0	0·0	55	0·00
7	..	30·233	58·4	32·1	44·8	37·5	77·5	23·8	54·0	51·7	7·3	15·6	5·5	— 7·1	NE	NE	0·0	0·0	0·0	45	0·00
8	..	30·133	59·7	32·7	45·5	37·4	81·5	24·5	54·0	51·7	8·1	17·4	1·5	— 6·3	NE	ENE	0·0	0·0	0·0	40	0·00
9	In Equator	29·990	62·0	36·1	46·9	35·8	87·5	..	53·8	51·7	11·1	18·4	1·8	— 4·7	...	...	..	..	..	45	0·00
10	..	29·908	65·3	41·1	52·8	41·8	87·0	33·1	53·8	51·7	11·0	20·3	5·3	+ 1·4	...	...	..	..	..	80	0·00
11	..	29·794	63·0	50·5	49·8	41·5	82·0	31·7	54·7	51·7	8·3	15·0	2·5	— 1·5	...	...	..	..	..	110	0·04
12	..	29·588	55·6	41·1	45·8	41·4	63·8	31·2	53·8	51·2	4·4	8·2	2·9	— 5·5	...	...	..	..	..	80	0·03
13	New	29·553	65·5	36·7	49·1	43·2	85·8	29·0	55·2	52·2	5·9	18·8	1·1	— 2·3	...	...	..	..	..	95	0·24
14	Perigee	29·488	61·0	42·1	50·9	43·8	61·0	..	55·2	52·2	7·1	11·0	1·0	— 0·9	...	...	..	..	..	55	0·19
15	Greatest Declination N.	29·290	61·0	47·5	52·2	47·7	69·7	41·0	55·7	52·7	4·5	9·3	2·4	0·0	...	...	..	..	..	205	0·07
16	..	29·576	64·2	47·0	53·0	46·7	79·8	42·7	57·2	53·2	6·3	10·5	2·7	+ 0·4	...	...	..	..	..	195	0·09
17	..	29·833	59·6	47·3	52·5	49·3	67·4	43·3	57·2	53·2	3·2	5·8	2·0	— 0·3	...	...	..	..	..	275	0·06
18	..	29·767	66·0	50·1	54·8	48·3	79·7	50·0	57·2	53·2	6·5	12·9	2·0	+ 1·7	...	...	..	..	..	135	0·04
19	First Qr.	29·798	66·0	43·7	53·5	40·1	86·3	37·2	57·7	53·2	13·4	23·0	7·8	+ 0·2	...	...	..	..	..	160	0·03
20	..	29·941	69·6	42·7	55·6	45·5	95·8	42·0	56·7	52·7	10·1	20·9	5·2	+ 2·0	...	...	..	..	..	75	0·00
21	..	29·701	71·0	47·5	59·5	43·9	88·0	..	58·7	53·2	15·6	21·6	4·0	+ 5·7	...	...	..	..	..	135	0·00
22	In Equator	29·708	65·7	49·0	55·3	44·8	83·7	46·0	59·7	53·2	10·5	15·4	4·8	+ 1·2	...	...	..	..	..	150	0·07
23	..	29·622	62·9	47·7	53·0	48·2	84·5	..	60·2	56·2	4·8	9·5	3·6	— 1·3	...	...	..	..	..	135	0·33
24	..	29·587	62·7	45·4	55·4	44·8	84·0	39·8	60·2	56·0	10·6	14·6	0·4	+ 1·0	...	...	..	..	..	150	0·34
25	..	29·895	60·2	46·1	51·0	44·3	74·0	46·0	60·2	55·8	6·7	13·1	1·5	— 3·6	...	...	..	..	..	120	0·16
26	..	29·353	64·6	38·9	49·9	43·1	87·7	32·2	59·7	55·2	6·8	13·9	1·2	— 4·8	...	...	..	..	..	90	0·00
27	Full	30·008	70·0	46·1	54·8	50·0	90·5	41·2	59·2	54·7	4·8	14·2	1·5	— 0·1	...	...	..	..	..	80	0·00
28	..	29·977	63·7	47·1	54·1	43·3	90·3	41·1	58·7	55·2	10·8	16·3	0·8	— 1·1	...	...	..	..	..	30	0·00
29	Apogee; Greatest Dec. S.	29·962	75·0	46·6	59·1	50·2	93·0	..	59·7	56·2	8·9	17·5	2·5	+ 3·7	...	...	..	..	..	30	0·00
30	..	29·949	76·7	50·1	63·2	51·7	101·4	45·0	61·7	58·4	11·5	22·3	4·6	+ 7·5	...	...	..	..	..	40	0·00
31	..	29·903	81·2	54·0	67·7	53·2	103·8	45·4	61·5	59·0	14·5	23·0	4·4	+11·6	...	...	..	..	..	25	0·00
Means	..	29·742	63·7	42·7	51·7	43·5	81·8	36·9	57·1	53·5	8·2	15·0	2·9	— 1·2	...	...	..	..	..	Sum 2980	Sum 1·99

BAROMETER READINGS.

The absolute minimum in the month was 28in·951 on the 1st.
The first maximum in the month was 30in·257 on the 7th; the second minimum ,, was 29in·262 on the 15th.
The second maximum ,, was 29in·972 on the 20th; the third minimum ,, was 29in·322 on the 24th.
The absolute maximum ,, was 30in·393 on the 26th.
The range in the month was 1in·442.
The mean for the month was 29in·742, being 0in·022 *lower* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 81°·2 on the 31st; the lowest was 32°·1 on the 7th; and the range in the month was 49°·1.
The mean ,, of all the highest daily readings was 63°·7, being 0°·7 *lower* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 42°·7, being 1°·5 *lower* than the average of the preceding 17 years.
The mean daily range was 21°·0, being 0°·9 *higher* than the average of the preceding 17 years.
The mean for the month was 51°·7, being 1°·2 *lower* than the average of the preceding 17 years.

Osler's Anemometer was under repair from May 9 to the end of the month.

MONTH and DAY, 1858.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
May 1	P, N, s, sps, g cur	P, N, s, sps, g cur	9, cu, ci.-cu, ci.-s, shs.-hl.-r	9, cu, ci.-cu, ci.-s, shs.-hl.-r
2	m	m	10, n, cu.-s, ci.-s, r	10, s, ci.-s, oc.-r, hl : 7, cu.-s, ci.-s, hl, r
3	v	v	7, cu.-s, ci.-s	6, cu, ci.-cu, shs.-r : 0
4	P, N, s, sps, g cur	P, N, s, sps, g cur	10, ci.-s, sl.-r	10, ci.-cu, ci.-s, h.-r : 0
5	w	w	10, s, f : 7, cu, li.-cl, h	7, s : 10
6			10, ci.-cu, ci.-s	10, ci.-cu, ci.-s
7			0, h.-f : 9, cu, ci.-cu, ci.-s	9, ci.-cu : 0
8			0	9, ci.-s : 0
9			7, ci.-cu, ci.-s	7, cu, ci.-cu, ci
10			7, ci.-cu	0 : 10, ci. s
11	v : N, w	v	10, ci.-s	10, n, cu.-s, ci.-s, r : 7, ci.-cu, ci.-s
12	N, s	s	10, r	10, r : 7, ci.-cu
13	N, w	m	10, ci.-s, oc.-r	10, cu, ci.-cu, cu.-s, hl, r : 0
14	s	s	10, cu, cu.-s	10, cu.-s, ci.-s, n, r
15	w	w	10, ci.-s, r	10, ci.-s. h.-r : 2, cu.-s, ci.-s
16	v	v	9, cu.-s, ci.-s, r	9, cu, cu.-s, n, shs.-hl.-r, t
17	0	0	10, cu.-s, ci.-s	10, cu.-s, n
18	0	0	9, r	9, ci.-cu, ci, ci.-s, r : 0
19	P, N, s, g cur	P, N, s, g cur	10, cu, cu.-s : cu, cu.-s, r	10, cu, ci.-cu, h.-r, t : 0
20	0	0 : s	3, ci.-cu, ci	3, cu, ci.-cu
21	w	w	7, ci.-cu, s	10, s, ci : r
22	0	v	5, cu, ci.-cu, ci.-s	5, cu, ci.-cu, ci : 0
23	P, N, ss	P, N, ss	8, cu, ci.-cu, ci, shs.-r	8, shs.-r, t
24	s, g cur	s, g cur	10, ci.-s, r	10, ci.-cu, ci.-s : r
25	w	0	10, ci.-cu, ci.-s, r	7, cu.-s, ci.-s, s, r
26	0	0	5, ci.-cu : 10, cu.-s	2, ci.-cu : 10, s, ci.-s
27	s	s	10, ci.-s	10, ci.-s
28	s	s	7, cu, cu.-s	7, cu, ci.-s : 10, cu, cu.-s
29	v	v	3, ci, ci.-s	3, ci.-cu, ci.-s : 10, ci.-s
30	v	v	2, ci.-cu, ci.-s, li.-cl	2, ci.-cu, ci, li.-cl
31	s	s	0	0 : 1

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 56°·3 on the 31st; and the lowest was 33°·7 on the 6th.

The mean ,, was 43°·5, being 2°·0 *less* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0in·283, being 0in·017 *less* than the average of the preceding 17 years.

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

Weight of a Cubic Foot of Air.—The mean for the month was 539 grains, being 1 grain *greater* than the average of the preceding 17 years.

CLOUDS.

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

WIND.

The proportions were of N. 7, S. 8, W. 12, and E. 4.

RAIN.

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

ELECTRICITY.—May 6 to 10. The insulating lamp was out.

MONTH and DAY, 1858.	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.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in
June 1	..	29·903	85·0	58·5	70·7	56·5	119·5	44·0	62·7	60·2	14·2	27·9	8·6	+14·3	...	W ; N	0·0	0·0	0·0	15	0·00
2	..	29·888	84·4	54·0	68·1	57·6	104·5	53·7	64·0	60·5	10·5	25·5	7·9	+11·5	Calm ; SE	S	0·0	0·0	0·0	25	0·00
3	..	29·735	81·7	59·3	70·0	60·6	116·4	55·0	65·2	62·2	9·4	16·5	1·7	+13·2	S ; Var.	E ; SW	0·0	0·0	0·0	40	0·00
4	Last Qr.	29·992	77·0	54·1	64·2	52·0	105·5	50·5	63·7	61·2	12·2	21·4	3·0	+ 7·1	SW	SW	0·0	0·0	0·0	35	0·00
5	In Equator	29·888	70·6	53·5	59·4	56·7	81·2	45·7	65·3	63·2	2·7	8·5	1·9	+ 2·3	SW	Var.	0·0	0·0	0·0	15	1·16
6	..	30·026	73·0	54·5	60·3	51·7	91·6	49·4	66·2	63·5	8·6	19·4	6·2	+ 3·1	NE	NE	2·0	0·0	0·0	55	0·00
7	..	29·922	72·0	51·7	59·3	49·8	90·0	..	65·9	63·2	9·5	19·4	6·2	+ 2·0	NE	NE	0·0	0·0	0·0	15	0·00
8	..	29·735	79·8	49·1	63·8	57·1	100·6	51·7	66·0	63·7	6·7	18·3	..	+ 6·4	NE	SW	0·0	0·0	0·0	15	0·01
9	..	29·737	82·9	55·6	68·5	59·0	105·7	..	66·7	64·2	9·5	18·2	1·8	+11·0	SW	Calm	0·0	0·0	0·0	10	0·00
10	..	29·846	80·0	54·8	63·7	59·0	98·0	54·0	67·7	65·2	4·7	19·6	2·5	+ 6·0	E	NE ; Calm	0·0	0·0	0·0	5	0·00
11	New ; Perigee	29·856	79·8	52·5	65·1	56·1	101·5	45·0	68·2	65·5	9·0	17·9	7·2	+ 7·1	S	Calm	0·0	0·0	0·0	5	0·00
12	Greatest Declination N.	29·799	79·0	57·0	66·1	57·2	105·0	52·0	68·7	66·2	8·9	19·4	5·1	+ 7·8	Calm	SW	0·0	0·0	0·0	25	0·00
13	..	29·792	82·5	51·9	66·9	56·7	108·5	44·0	68·7	66·2	10·2	20·7	1·0	+ 8·4	SW	SW	0·0	0·0	0·0	40	0·00
14	..	29·758	88·5	59·4	72·0	61·0	109·7	47·7	69·7	67·2	11·0	23·0	5·1	+13·2	SW	SSW	2·0	0·0	0·1	..	0·00
15	..	29·833	88·5	60·5	73·8	62·1	111·2	47·0	71·4	68·2	11·7	22·1	4·2	+14·8	SW ; SE	E	1·5	0·0	0·3	30	0·00
16	..	29·709	94·5	61·5	76·9	62·3	117·7	47·8	72·4	69·2	14·6	31·5	4·9	+17·6	E	Calm	1·0	0·0	0·1	35	0·00
17	..	29·663	78·6	59·2	64·9	58·2	100·5	51·8	71·4	69·2	6·7	14·6	5·9	+ 5·5	Calm	SW	3·0	0·0	0·4	65	0·00
18	First Quarter. In Equator.	29·885	70·1	50·3	56·7	53·0	80·0	42·4	71·4	69·7	3·7	9·2	1·8	− 2·8	SW	Calm	0·0	0·0	0·0	5	0·01
19	..	29·980	78·0	48·5	62·6	49·9	103·0	41·5	70·4	68·2	12·7	22·5	1·6	+ 3·0	S	SW	0·0	0·0	0·0	30	0·00
20	..	30·012	77·7	53·1	62·7	56·1	98·8	45·0	70·4	68·2	6·6	20·1	5·1	+ 2·9	SW	SW ; E	0·0	0·0	0·0	15	0·02
21	..	30·166	80·8	51·6	63·3	50·8	105·5	46·0	70·1	67·2	12·5	25·8	1·2	+ 3·4	NE	NE ; SE	0·0	0·0	0·0	10	0·04
22	..	30·180	86·0	55·0	68·4	55·9	112·4	45·5	71·1	69·2	12·5	27·9	9·2	+ 3·4	SW	NNE	0·0	0·0	0·0	25	0·00
23	..	30·155	84·0	54·0	68·3	58·4	105·7	..	71·1	69·7	9·9	24·8	3·6	+ 8·1	Calm	NE ; SE	0·0	0·0	0·0	20	0·00
24	..	30·110	73·2	53·9	60·9	49·6	88·5	..	71·4	69·7	11·3	19·6	8·4	+ 0·5	Calm ; N	NE	3·0	0·0	0·6	60	0·00
25	Apogee ; Greatest Dec. S.	30·129	74·2	48·9	61·1	46·9	99·5	50·0	70·4	69·2	14·2	23·4	4·8	+ 0·5	Calm	NW	1·0	0·0	0·0	45	0·00
26	Full	29·887	82·5	51·7	66·9	53·2	110·0	..	69·9	68·2	13·7	24·8	4·2	+ 6·1	SW	W ; NW	3·0	0·0	0·8	105	0·00
27	..	29·928	72·4	55·5	59·6	42·3	91·7	50·4	68·7	64·6	17·3	26·6	10·2	− 1·4	NW	NNW	1·5	0·0	0·3	65	0·00
28	..	29·963	76·5	45·3	60·8	44·9	103·5	35·0	69·9	68·2	15·9	25·7	6·4	− 0·5	Calm	W	2·0	0·0	0·3	90	0·00
29	..	29·987	73·0	50·1	59·6	46·7	98·0	43·2	67·7	66·2	12·9	21·6	3·4	− 1·9	SW ; NW	NNW	1·5	0·0	0·1	40	0·00
30	..	29·978	79·0	51·8	63·4	49·8	104·5	40·8	67·7	64·2	13·6	23·8	5·8	+ 1·9	SW ; NW	NW ; N	1·3	0·0	0·2	75	0·00
																				Sum	Sum
Means	..	29·915	79·5	53·9	64·9	54·4	102·3	47·2	68·5	66·0	10·5	21·3	4·8	+ 5·8	...	...	..	..	..	1015	1·24

BAROMETER READINGS.

The first maximum in the month was 30in·011 on the 4th; the second maximum was 30in·036 on the 6th; the third maximum was 29in·860 on the 15th; the absolute maximum was 30in·207 on the 23rd; the fifth maximum was 30in·017 on the 28th.

The first minimum in the month was 29in·648 on the 3rd. The second minimum was 29in·859 on the 5th. The third minimum was 29in·713 on the 8th. The absolute minimum was 29in·596 on the 17th. The fifth minimum was 29in·849 on the 26th.

The range in the month was 0in·611.

The mean for the month was 29in·915, being 0in·117 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 94°·5 on the 16th; the lowest was 45°·3 on the 28th; and the range in the month was 49°·2.

The mean of all the highest daily readings was 79°·5, being 8°·6 *higher* than the average of the preceding 17 years.

The mean of all the lowest daily readings was 53°·9, being 4°·0 *higher* than the average of the preceding 17 years.

The mean daily range was 25°·6, being 4°·6 *higher* than the average of the preceding 17 years.

The mean for the month was 64°·9, being 6°·2 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1858.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
June 1	o	o	o, h	o
2	w	w	o	7, ci.-cu, s : oc.-shs : 10, ci.-s, l
3	w	o : w	9, ci.-cu, cu.-s, ci.-s	9, ci.-s : 1, ci.-cu, l
4	w	w	o	o : 7, ci.-cu, ci.-s
5	P, N, ss, sps, g cur	P, N, ss, sps, g cur	10, t.-s	10, ci.-cu, ci-s, shs.-r, t
6	m	m	9, ci.-cu, ci.-s	9, ci.-cu, ci.-s
7	w	w	7, ci.-cu, ci.-s	7, ci.-cu, ci : o
8	w	w	o	o : 7, cu.-s, ci.-s, t.-s
9	s	s	7, ci.-cu, ci.-s	o : l
10	v	v	10, h	o
11	v	v : sps	10, ci.-s	10, cu, ci.-cu, ci
12	w	w	7, ci.-cu, ci.-s	7, ci.-cu, ci.-s : o
13	w	w	3, ci.-cu, ci	3, ci.-cu, ci : 10, l, r
14	s	s	8, ci.-cu : 2, s	7, s
15	w	w	o	o
16	w	w	o, l	o : 7, ci.-cu, ci.-s, l
17	s	s	10, s, ci.-s, oc.-r	10, ci.-s, oc.-r : o
18	w	w	10, ci.-s	10, ci.-s, h.-shs.-r : o
19	o	o : w	7, ci.-cu, cu.-s	7, ci.-cu, ci.-s : o
20	o	o	10, cu.-s	10, cu.-s, ci.-s : oc.-r
21	o	o	o : 3, li.-cl	3, ci.-cu, ci.-s
22	o	o	o	7, ci.-cu, ci : o
23	o	o	o	10, ci.-cu, ci.-s : o
24	o	o	10, cu, ci.-cu, ci.-s	10, cu, ci.-cu, ci.-s : o, lu.-co
25	w	w	o	o
26	w	w	o	o : 10, ci.-s
27	w	w	9, cu.-s, ci.-s	8, cu.-s, ci.-s : 10, s
28	P, N, w	P, N, w	o, h	5, ci.-cu, ci : o
29	o	o	10, ci.-cu, ci.-s	5, ci.-cu, ci
30	s	s : w	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s, s : o

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 67°·3 on the 16th; and the lowest was 42°·9 on the 27th.

The mean ,, was 54°·4, being 3°·8 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}\cdot424$, being $0^{in}\cdot055$ *greater* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $4^{gr}\cdot6$, being $0^{gr}\cdot5$ *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 69 (that of Saturation being represented by 100), being 5 *less* than average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 527 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 5·2.

WIND.

The proportions were of N. 7, S. 9, W. 10, and E. 4. The greatest pressure in the month was $3^{lbs}\cdot0$ on the square foot on the 17th, 24th, and 26th.

RAIN.

Fell on 5 days in the month, amounting to $1^{in}\cdot2$, as measured in the simple cylinder gauge partly sunk below the ground; being $0^{in}\cdot6$ *less* than the average fall of the preceding 17 years.

MONTH and DAY, 1858.	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.
July 1	..	29·914	69·6	50·5	56·9	41·5	85·0	49·0	67·2	5·7	15·4	24·7	8·6	— 4·6	NW	NW	2·5	0·0	0·8	110	0·00
2	..	29·885	71·0	48·3	54·8	46·0	84·0	47·0	66·0	5·2	8·8	16·0	7·4	— 6·6	N	N	2·0	0·0	0·3	105	0·00
3	In Equator	30·024	62·7	52·2	55·0	44·6	74·0	43·8	65·7	64·4	10·4	16·2	9·2	— 6·4	N	N	2·5	0·0	0·8	85	0·00
4	Last Qr.	29·958	73·0	48·7	58·4	46·4	93·4	46·4	65·7	64·2	12·0	26·3	6·0	— 3·1	N	SW	3·0	0·0	0·3	110	0·04
5	..	29·604	66·0	49·5	56·1	49·6	74·6	50·0	65·0	63·2	6·5	13·3	2·7	— 5·5	SW	NW; SW	1·5	0·0	0·3	60	0·12
6	..	29·500	70·7	49·9	56·5	45·9	93·2	43·8	64·2	62·7	10·6	23·2	3·4	— 5·2	SW	Calm	1·0	0·0	0·0	20	0·00
7	..	29·516	66·9	47·3	54·2	47·6	80·2	39·0	64·2	62·7	6·6	19·8	4·4	— 7·6	Calm	SW	0·0	0·0	0·0	20	0·20
8	..	29·589	69·6	48·7	55·4	49·3	94·3	44·0	63·2	62·4	6·1	18·9	4·2	— 6·3	SW	NE	2·0	0·0	0·1	55	0·07
9	Greatest Declination N.	29·695	66·0	47·5	54·4	49·6	82·0	..	63·7	61·7	4·8	14·6	1·4	— 7·1	NNE	NE	2·5	0·0	0·5	150	0·40
10	Perigee, New	29·707	70·6	48·5	56·2	52·7	83·0	48·0	62·2	60·5	3·5	12·6	2·2	— 5·3	NNW	N	4·0	0·0	0·8	125	0·57
11	..	29·940	77·6	54·9	64·7	52·2	102·3	52·3	63·2	61·5	12·5	21·4	3·0	+ 3·1	N	NW; N	0·5	0·0	0·0	40	0·00
12	..	29·937	79·5	51·5	65·2	57·4	102·5	43·0	63·7	61·8	7·8	17·1	2·2	+ 3·5	N; NW	SW	0·0	0·0	0·0	85	0·00
13	..	29·865	73·5	59·0	64·1	57·0	84·7	54·5	64·2	61·7	7·1	17·9	2·7	+ 2·3	SW	SW	1·0	0·0	0·0	160	0·00
14	..	29·803	80·7	57·5	66·7	58·5	102·4	57·0	64·5	62·4	8·2	19·0	4·0	+ 5·0	SW	S	0·0	0·0	0·0	45	0·00
15	In Equator	29·672	88·2	58·5	73·5	59·5	111·1	51·0	66·2	63·4	14·0	25·3	1·0	+11·8	SE	S; Calm	3·5	0·0	0·0	60	0·00
16	..	29·750	75·2	60·5	64·5	59·8	83·0	45·0	67·0	64·5	4·7	13·3	0·7	+ 2·6	Calm; N	W	3·0	0·0	0·0	15	0·61
17	First Qr.	29·872	79·7	57·0	66·1	54·8	90·0	..	67·0	64·2	11·3	25·8	5·2	+ 4·4	Calm	SW	0·0	0·0	0·0	35	0·00
18	..	29·954	78·0	52·1	62·8	54·4	91·3	43·0	69·2	64·2	8·4	15·3	3·8	+ 1·1	S	SW	2·5	0·0	0·3	55	0·09
19	..	29·962	77·2	50·7	62·8	53·3	103·6	41·0	69·2	64·7	9·5	18·5	2·7	+ 1·1	SW	N	0·0	0·0	0·0	10	0·00
20	..	29·756	78·0	51·7	64·6	51·8	102·0	44·0	70·4	66·2	12·8	21·6	5·2	+ 3·0	SSW	SE	2·5	0·0	0·2	70	0 00
21	..	29·661	73·8	56·7	60·7	49·0	90·2	44·5	69·2	65·2	11·7	21·1	4·6	— 0·8	NW	SW	3·5	0·0	0·8	110	0·00
22	Apogee	29·808	74·5	49·3	60·6	52·9	101·8	41·0	69·2	64·7	7·7	19·6	1·0	— 0·9	SW	S	3·0	0·0	0·5	70	0·03
23	Greatest Declination S.	29·771	79·2	57·5	65·7	55·0	105·5	56·5	69·2	66·2	10·7	19·2	2·0	+ 4·2	SW; W	SW	2·0	0·0	0·0	60	0·00
24	..	29·559	71·9	54·9	62·9	58·1	92·7	52·5	69·3	66·2	4·8	11·0	1·0	+ 1·3	S	S; SW	4·5	0·0	0·8	255	0·25
25	..	29·440	74·3	53·1	60·7	47·7	90·0	49·8	69·2	64·7	13·0	20·7	11·0	— 1·1	SW	WSW	15·0	0·0	6·6	160	0·00
26	Full	29·789	74·0	51·3	60·5	48·2	97·5	42·0	68·7	64·7	12·3	20·5	8·4	— 1·6	SW	W; SW	2·0	0·0	0·0	15	0·00
27	..	29·637	73·5	51·3	61·3	51·8	96·4	42·3	69·3	64·2	9·5	19·4	2·7	— 1·0	SW; SE	SE	2·2	0·0	0·0	80	0·17
28	..	29·767	70·6	53·3	58·6	50·6	81·8	57·0	68·2	62·2	8·0	16·2	2·7	— 2·9	NE	NNE	3·0	0·0	0·3	70	0·42
29	..	29·894	71·0	43·8	56·3	47·8	90·8	44·0	66·3	63·2	8·5	19·1	3·1	— 6·2	NNW	N	0·0	0·0	0·0	20	0·00
30	In Equator	29·956	74·8	44·0	60·0	47·2	97·8	..	65·7	63·2	12·8	24·7	3·5	— 2·5	NW	NW	0·5	0·0	0·0	15	0·00
31	..	30·028	78·2	48·1	60·1	49·6	99·7	39·0	65·9	63·7	10·5	21·4	5·3	— 2·4	NW	N; SE	0·0	0·0	0·0	110	0·00
Means	..	29·781	73·9	51·9	60·7	51·3	92·3	46·8	66·5	63·7	9·4	19·2	4·0	— 1·1	...	...	..	..	..	Sum 2380	Sum 2·97

BAROMETER READINGS.

The first minimum in the month was 29in·869 on the 2nd.
The absolute maximum in the month was 30in·073 on the 3rd; the second minimum ,, was 29in·473 on the 6th.
The second maximum ,, was 29in·968 on the 12th; the third minimum ,, was 29in·659 on the 15th.
The third maximum ,, was 30in·002 on the 19th; the fourth minimum ,, was 29in·597 on the 21st.
The fourth maximum ,, was 29in·820 on the 22nd; the absolute minimum ,, was 29in·311 on the 25th.
The fifth maximum ,, was 29in·814 on the 26th; the sixth minimum ,, was 29in·569 on the 27th.
The range in the month was 0in·762.
The mean for the month was 29in·781, being 0in·015 *lower* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 88°·2 on the 15th; the lowest was 43°·8 on the 29th; and the range in the month was 44°·4.
The mean ,, of all the highest daily readings was 73°·9, being 0°·3 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 51°·9, being 1°·3 *lower* than the average of the preceding 17 years.
The mean daily range was 22°·0, being 1°·6 *higher* than the average of the preceding 17 years.
The mean for the month was 60°·7, being 1°·0 *lower* than the average of the preceding 17 years.

MONTH and DAY, 1858.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
July 1	N, w	N, w	10, cu, ci.-cu, ci.-s	10, cu, ci.-cu, ci.-s : o
2			10, ci.-s, shs.-r	10, ci.-s, shs.-r. : cu.-s, s
3			10, cu-s, ci.-s. oc.-r	10, ci.-cu, ci.-s
4			7, ci.-cu, ci	7, ci.-cu, ci.-s : 10, ci.-s, r
5			10, r : gt.-glm	10, cu.-s, ci.-s
6	w	N, v : w	10, cu.-s, ci.-s : shs.-r	10,cu.-s, ci.-s
7	v : N w	v	10, ci.-cu, s, r	10, cu.-s, ci.-s, l : h.-r, l, t
8	s s	N, s, sps, g cur : w	7, ci.-cu, ci.-s, h.-r	10, t, h.-r : 7, ci.-s
9	o	s, sps, g cur : N	10, cu, ci.-cu, ci	10, cu.-s, ci.-s, r
10	o	o	10, fr.-shs	10, h.-r : h.-r
11	w	w	3, ci.-cu	3, ci.-cu, ci
12	v	v	7, cu, ci.-cu, ci	10, ci.-cu, ci.-s
13	o	v	10, ci.-cu, cu.-s, ci.-s	7, cu.-s, ci.-s
14	v	v	10, cu.-s, ci.-s : 2, ci	2, ci
15	w	w	5, ci	5, ci.-s : 10 : t.-s
16	s	s, sps, g cur	10, ci.-cu, ci.-s	10, h.-r, t : 9, s, ci.-s
17	o	o : w	10, h : 2, ci	o
18	s	s	10, h.-shs.-r	3, ci
19	v	v	10, ci.-s	8, cu, ci.-cu : 2, ci : o
20	m	m	2, ci	2, ci : 10, ci.-s
21	o	o : w	10, ci.-cu, ci.-s, sl.-r	7, ci.-cu, ci.-s : o
22	o	o	10, ci.-cu, ci.-s	10, cu, cu.-s, sl.-r 10, r
23	o	o : w	10, ci-cu, ci.-s, sl.-r	10, ci.-cu, ci.-s
24	o	o	10, r : 7, ci.-cu, ci.-s	10, oc.-shs-r
25			7, st.-w	7, st.-w : o
26			9, ci-cu, ci.-s	9, ci.-cu, ci.-s : o
27			3, ci	10, ci.-cu, ci.-s, r
28			10, r : 10, ci.-cu, ci.-s	7, ci.-cu, ci.-s : o
29			10, ci.-cu, ci.-s	10, cu.-s, ci.-s : 5, ci.-cu, ci.-s
30			o : 3, ci.-cu	7, ci.-cu, ci.-s
31			o, f : 7, cu, ci.cu, ci	2, ci.-cu, ci.-s : o

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 62°·5 on the 16th; and the lowest was 40°·1 on the 1st.

The mean ,, was 51°·3, being 2°·6 *less* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}\cdot 378$, being $0^{in}\cdot 039$ *less* than the average of the preceding 17 years.

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

Degree of Humidity.—The mean for the month was 71 (that of Saturation being represented by 100), being 5 *less* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 529 grains, being 2 grains *greater* than the average of the preceding 17 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by o and a cloudy sky by 10, was 6·9.

WIND.

The proportions were of N. 10, S. 11, W. 7, and E. 3. The greatest pressure in the month was $15^{lbs}\cdot 0$ on the square foot on the 25th.

RAIN.

Fell on 12 days in the month, amounting to $3^{in}\cdot 0$, as measured in the simple cylinder gauge partly sunk below the ground; being $0^{in}\cdot 4$ *greater* than the average fall of the preceding 17 years.

ELECTRICITY.—July 2 to 5. The insulating lamp was not burning. July 25. The electrometer pole was broken during a heavy gale and other parts of the apparatus injured; it was not in working order again till November 14.

MONTH and DAY, 1858.	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.	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	..	30·117	76·4	48·5	60·8	50·2	100·0	40·5	66·7	64·2	10·6	23·8	2·3	— 1·7	Calm	E	2·0	0·0	0·1	105	0·00
2	Last Qr.	29·902	74·5	45·1	59·7	48·9	99·7	34·0	66·7	64·2	10·8	22·1	1·5	— 2·6	SE	ESE	1·0	0·0	0·0	15	0·00
3	..	29·685	80·9	53·5	64·7	50·8	..	..	66·7	64·2	13·9	24·1	5·4	+ 2·5	Calm; SSE	SW	3·5	0·0	0·5	15	0·01
4	..	29·813	79·7	51·5	62·7	52·3	103·3	39·2	67·2	64·7	10·4	23·9	2·2	+ 0·6	SW	SW	3·0	0·0	0·6	..	0·00
5	Greatest Declination N.	29·855	79·7	58·7	66·7	51·0	104·7	58·0	68·3	65·2	15·7	25·5	4·0	+ 4·7	SW	SW	2·5	0·0	0·8	..	0·03
6	..	30·049	76·0	50·1	61·1	46·7	102·0	45·0	67·9	65·2	14·4	22·1	2·1	— 0·9	SW; NW	NNW	2·0	0·0	0·3	..	0·00
7	Perigee	30·245	78·0	47·2	60·8	50·1	100·5	38·0	67·5	64·2	10·7	24·1	4·9	— 1·2	Calm	E	0·0	0·0	0·0	..	0·00
8	..	30·232	76·0	46·5	60·4	51·3	97·5	39·0	67·2	64·2	9·1	23·1	1·2	— 1·6	NE	E; NE	1·0	0·0	0·0	..	0·00
9	New	30·070	80·8	47·5	63·7	51·7	102·9	36·4	67·2	64·2	12·0	24·3	1·6	+ 1·8	NE	NE	1·0	0·0	0·0	..	0·00
10	..	29·877	81·6	56·5	65·8	60·7	102·4	37·8	67·2	64·2	5·1	14·3	0·6	+ 4·0	N	NE	0·0	0·0	0·0	..	0·20
11	..	29·853	82·2	59·3	67·6	60·4	102·5	53·0	67·3	64·2	7·2	16·8	1·0	+ 5·9	N	E; ESE	0·0	0·0	0·0	..	0·00
12	In Equator	29·837	86·9	56·1	71·8	60·0	108·5	47·3	67·9	65·7	11·8	25·2	1·0	+10·2	ESE; NNE	S; N	1·0	0·0	0·0	..	0·00
13	..	29·830	82·2	55·5	66·5	52·9	107·6	35·0	68·9	66·2	13·6	29·2	4·4	+ 5·0	N; SW	NW	0·0	0·0	0·0	..	0·00
14	..	29·748	78·5	55·7	62·1	56·8	98·5	46·7	69·5	66·2	5·3	13·3	1·3	+ 0·6	NE	Calm	3·0	0·0	0·0	..	0·69
15	..	29·877	74·4	54·5	62·4	53·8	94·5	51·2	69·3	66·2	8·6	19·6	3·0	+ 1·0	WSW	SW	2·0	0·0	0·2	..	0·00
16	First Qr.	29·870	73·7	55·2	63·5	52·4	92·4	53·5	69·0	66·2	11·1	17·2	2·8	+ 2·1	SW	SSW; SSE	3·0	0·0	0·3	..	0·00
17	..	29·600	83·0	54·1	67·5	53·8	104·0	46·5	69·0	66·2	13·7	24·1	6·7	+ 6·2	SE	SSW	2·5	0·0	0·1	..	0·02
18	..	29·547	78·9	60·4	67·0	56·5	99·1	37·9	69·0	65·7	10·5	23·8	1·9	+ 5·9	Calm	SE	0·0	0·0	0·0	..	0·04
19	Greatest Dec. S.; Apogee.	29·583	79·4	59·1	67·3	55·3	104·6	41·3	69·0	66·2	12·0	23·1	3·4	+ 6·4	SW	SW	1·5	0·0	0·0	..	0·10
20	..	29·701	69·7	57·3	60·7	49·7	75·0	52·2	69·4	66·2	11·0	18·2	7·2	— 0·1	NW	NW	2·5	0·0	0·4	..	0·00
21	..	29·647	61·4	47·8	54·8	53·9	62·0	32·2	68·8	66·2	0·9	3·8	0·0	— 5·8	SW; NW	NNW	7·0	0·0	1·5	..	0·44
22	..	29·800	72·2	52·9	60·8	52·0	92·8	44·8	67·4	64·8	8·8	17·3	2·2	+ 0·4	ENE	NE; E	2·0	0·0	0·0	..	0·00
23	..	29·925	75·6	48·6	62·4	55·4	97·4	39·8	67·4	64·8	7·0	18·5	3·2	+ 2·1	NNE	E; NE	0·0	0·0	0·0	..	0·00
24	Full	29·988	77·0	52·5	63·0	53·8	102·5	..	67·4	64·7	9·2	18·2	2·2	+ 2·7	N	N; S	0·0	0·0	0·0	..	0·00
25	..	29·876	72·8	51·5	58·6	50·0	95·2	..	67·3	64·7	8·6	19·1	4·2	— 1·6	NW	N	3·8	0·0	0·3	..	0·00
26	In Equator	29·930	68·0	47·7	56·9	43·3	91·2	39·3	67·2	63·7	13·6	20·7	5·5	— 3·0	NNW	NW; SW	3·0	0·0	0·8	..	0·00
27	..	29·751	67·5	53·3	57·6	44·6	83·5	46·7	66·8	62·7	13·0	17·8	9·2	— 2·1	SW; NW	NW; W	3·0	0·0	0·8	..	0·00
28	..	29·627	68·7	48·6	55·3	43·0	87·0	47·0	65·3	61·7	12·3	22·1	4·6	— 4·3	W; NW	NW; SW	2·5	0·0	0·4	..	0·00
29	..	29·632	69·0	43·3	56·2	49·8	90·0	34·0	..	..	6·4	17·8	2·8	— 3·2	SW	SW	3·0	0·0	0·4	120	0·00
30	..	29·557	69·5	51·8	57·9	44·3	91·5	43·8	..	..	13·6	20·5	7·6	— 1·2	SW	SW	4·5	0·0	1·0	220	0·00
31	Last Qr.	29·590	70·5	45·5	56·8	45·1	97·0	37·5	..	..	11·7	21·8	4·6	— 2·2	SW	SW	3·0	0·0	0·5	120	0·00
Means	..	29·826	75·6	52·1	62·0	51·6	96·3	42·8	67·8	64·9	10·4	20·5	3·4	+ 1·0	...	...	..	..	..	Sum 595	Sum 1·53

BAROMETER READINGS.

The first maximum in the month was 30in·136 on the 1st; the first minimum in the month was 29in·670 on the 3rd.
The absolute maximum ,, was 30in·264 on the 7th; the second minimum ,, was 29in·718 on the 14th.
The third maximum ,, was 29in·919 on the 16th; the absolute minimum ,, was 29in·505 on the 18th.
The fourth maximum ,, was 29in·769 on the 20th; the fourth minimum ,, was 29in·525 on the 21st.
The fifth maximum ,, was 30in·026 on the 24th; the fifth minimum ,, was 29in·530 on the 30th.
The range in the month was 0in·759. The mean for the month was 29in·826, being 0in·029 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 86°·9 on the 12th; the lowest was 43°·3 on the 29th; and the range in the month was 43°·6.
The mean ,, of all the highest daily readings was 75°·6, being 2°·9 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 52°·1, being 1°·4 *lower* than the average of the preceding 17 years.
The mean daily range was 23°·5, being 4°·2 *higher* than the average of the preceding 17 years.
The mean for the month was 62°·0, being 0°·6 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1858.	ELECTRICITY.		CLOUDS AND WEATHER.			
	A.M.	P.M.	A.M.		P.M.	
Aug. 1			7, ci.-cu, ci		7, cu, ci.-cu : o	
2			o		o : 7, s, ci.-s	
3			3, ci.-cu, ci		10, r : 7, ci.-cu	
4			10, cu.-s		10, ci.-cu, cu.-s : shs.-r	
5			10, cu.-s, ci.-s : o		o	
6			2, ci.-cu, cu.-s		2, cu, ci.-cu	
7			o	5	5, cu, ci.-cu, ci : o	
8			5, cu, ci.-cu : o		o	
9			3, ci.-cu : o		o	
10			10, r		10, cu.-s, ci.-s : 7, cu : 1	
11			10, ci.-s		10, ci.-cu : o : 1	
12			7, ci.-cu		7, cu.-s, ci.-s, t : 1	
13			5, s, ci		o : h	
14			10, ci.-s, oc.-r		10, shs.-r : gt.-glm, l, t, r : 10	
15			10, oc.-r		3, ci.-cu, ci	
16			5, ci.-cu, cu.-s		10, cu.-s, ci.-s : o	
17			5		10, ci.-cu : r	
18			10, r		5, ci.-cu : 10, r, l	
19			5, ci.-cu		3, cu, ci.-cu	
20			10, r		2, ci.-cu	
21			10, r		10, r	
22			7, cu, li.-cl		7, cu, li.-cl : o	
23			o	8	8, cu, cu.-s : o	
24			o		o : 7, s, ci, li.-cl	
25			10, ci.-cu, ci.-s		10, ci.-cu, ci.-s : o	
26			5, ci.-cu, ci		5, ci.-cu, ci : o	
27			10, ci.-cu, cu.-s		10, cu.-s, ci.-s : 7 : o	
28			10, cu, ci.-cu, shs.-r :	7	7, cu.-s, ci.-s : o	
29			7, ci.-cu, ci.-s		7, ci.-cu, ci.-s : o	
30			7, ci.-cu, ci.-s, r		5, cu, ci.-cu : 1	
31			3, ci.-cu, ci		10, cu.-s, ci.-s	

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 64°·6 on the 12th; and the lowest was 43°·5 on the 30th.
The mean ,, was 51°·6, being 2°·7 *less* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}·382$, being $0^{in}·044$ *less* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $4^{gr}·2$, being $0^{gr}·6$ *less* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 69 (that of Saturation being represented by 100), being 9 *less* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 529 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 5·1.

WIND.

The proportions were of N. 9, S. 7, W. 8, and E. 7. The greatest pressure in the month was 7^{lbs} on the square foot on the 21st.

RAIN.

Fell on 8 days in the month, amounting to $1^{in}·5$ 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.

MONTH and DAY, 1858.	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.
Sept. 1	..	29·564	71·4	49·7	58·8	51·4	92·0	40·3	62·9	60·7	7·4	17·6	5·1	0·0	SSW	W	5·0	0·0	1·0	150	0·00
2	Greatest Declination N.	29·722	69·3	46·5	58·0	49·2	88·4	37·0	61·7	59·2	8·8	15·7	5·5	— 0·6	SSW	SW	3·5	0·0	1·5	230	0·00
3	..	29·668	74·0	57·7	65·2	58·8	99·0	55·0	62·7	59·5	6·4	12·2	1·0	+ 6·7	SW	SW	8·0	0·0	2·0	220	0·04
4	Perigee	29·656	67·8	60·7	62·7	58·4	75·0	48·0	62·7	61·0	4·3	6·8	0·6	+ 4·3	SW	SSW	7·0	0·0	2·3	210	0·15
5	..	29·655	71·0	52·7	56·8	49·3	87·0	47·3	62·7	61·2	7·5	20·5	3·0	— 1·4	SW	SW	4·5	0·0	0·0	115	0·21
6	..	29·706	66·2	45·5	55·4	48·4	84·8	36·7	63·2	61·2	7·0	14·6	2·3	— 2·6	WSW	SSW	3·0	0·0	0·4	165	0·00
7	New	29·684	66·8	52·7	57·6	51·5	87·7	46·4	61·7	60·7	6·1	13·5	4·6	— 0·2	SW	SW	2·5	0·0	0·3	30	0·04
8	In Equator	29·776	72·0	54·3	61·4	53·4	85·5	34·0	62·2	60·7	8·0	15·1	5·2	+ 3·7	SSW	NNW	1·5	0·0	0·0	85	0·05
9	..	29·862	73·0	47·5	59·2	53·0	94·5	46·6	62·2	60·7	6·2	18·7	2·5	+ 1·6	Calm	SW	2·5	0·0	0·5	165	0·00
10	..	29·824	70·8	57·5	62·6	55·5	82·0	54·0	62·7	60·2	7·1	12·1	2·7	+ 5·1	SW	SW	8·0	0·0	1·0	175	0·00
11	..	30·034	70·9	58·1	62·9	57·8	79·1	52·1	62·0	61·5	5·1	11·3	2·9	+ 5·5	SW	S	1·0	0·0	0·0	40	0·00
12	..	30·019	83·8	48·7	65·3	56·8	105·0	43·0	63·7	61·2	8·5	24·3	0·6	+ 8·0	Calm	SE; E	0·0	0·0	0·0	35	0·00
13	..	29·942	83·1	50·5	65·9	57·2	102·0	41·9	64·2	62·4	8·7	22·6	3·8	+ 8·7	NE	E	0·0	0·0	0·0	40	0·00
14	..	30·024	81·0	53·3	64·6	56·5	101·7	45·3	64·7	62·7	8·1	23·1	3·2	+ 7·6	Calm; NE	NE	2·5	0·0	0·0	55	0·00
15	Greatest Dec. S. First Quarter.	30·030	75·0	54·3	62·6	54·1	96·0	47·0	65·2	63·2	8·5	18·0	2·3	+ 5·9	NE	E	0·0	0·0	0·0	35	0·00
16	Apogee	29·899	78·0	52·4	63·4	57·8	96·5	45·0	65·0	63·2	5·6	17·7	1·3	+ 6·9	E	ENE	2·0	0·0	0·0	55	0·00
17	..	29·589	72·8	54·7	62·9	59·5	81·8	49·3	64·7	63·2	3·4	13·7	0·4	+ 6·6	Calm	SE	2·3	0·0	0·0	105	0·03
18	..	29·899	69·4	52·3	58·7	47·1	91·5	45·6	64·7	63·2	11·6	18·0	7·2	+ 2·7	SW	SW; S	3·0	0·0	0·1	40	0·10
19	..	29·932	62·0	44·9	53·9	53·4	75·0	33·8	64·7	62·4	0·5	5·5	0·0	— 2·0	Calm	NE	2·5	0·0	0·3	50	0·17
20	..	30·060	66·0	55·2	59·0	56·1	73·0	53·2	64·5	62·0	2·9	7·9	0·6	+ 3·4	SW; Calm	Calm; NE	0·0	0·0	0·0	35	0·00
21	..	30·008	67·7	55·2	59·0	51·6	74·6	50·0	63·9	62·2	7·4	16·0	4·8	+ 3·5	NE	NE	3·5	0·0	0·8	150	0·00
22	In Equator	29·593	72·2	56·8	62·7	58·6	79·2	52·0	63·2	62·0	4·1	9·1	3·6	+ 7·3	NE	ENE; SSE	2·8	0·0	0·7	125	0·03
23	Full	29·530	70·7	58·9	63·2	54·6	85·0	52·0	62·2	61·5	8·6	13·1	4·8	+ 7·9	S	SW	9·0	0·0	2·6	215	0·00
24	..	30·092	67·2	49·9	56·9	46·8	83·0	49·0	62·7	61·6	10·1	15·4	8·2	+ 1·9	W	NNW	3·0	0·0	0·8	100	0·00
25	..	30·380	68·7	41·5	55·2	47·0	92·0	34·0	62·7	60·2	8·2	19·1	4·6	+ 0·3	Calm	Calm	0·0	0·0	0·0	65	0·00
26	..	30·297	67·5	47·5	56·9	53·3	77·5	48·0	61·7	59·2	3·6	12·4	2·3	+ 2·2	SW	Calm	0·0	0·0	0·0	25	0·00
27	..	30·120	66·0	56·1	59·3	51·1	73·5	54·0	62·2	59·7	8·2	11·6	3·6	+ 4·8	Calm	SW	0·0	0·0	0·0	75	0·00
28	..	30·059	60·2	53·5	56·9	53·8	62·0	55·0	61·7	59·4	3·1	5·1	1·7	+ 2·6	SW	Calm	0·0	0·0	0·0	30	0·00
29	Greatest Dec. N. Perigee	29·784	71·8	55·3	61·6	54·9	85·0	51·8	61·2	59·2	6·7	15·8	2·9	+ 7·6	Calm; SE	E; SE	0·0	0·0	0·0	65	0·00
30	Last Qr.	29·549	70·5	52·5	59·2	52·3	85·0	52·0	61·7	60·2	6·9	14·2	1·9	+ 5·4	SW	NW	4·0	0·0	0·0	155	0·06
																				Sum	Sum
Means	..	29·865	70·9	52·6	60·3	53·6	85·8	46·6	63·0	61·2	6·6	14·7	3·1	+ 3·8	...	...	..	..	..	3040	0·88

BAROMETER READINGS.

The first maximum in the month was 30in·060 on the 14th; the first minimum in the month was 29in·510 on the 17th.
The second maximum ,, was 30in·093 on the 20th; the second minimum ,, was 29in·497 on the 23rd.
The absolute maximum ,, was 30in·416 on the 25th; the absolute minimum ,, was 29in·466 on the 30th.
The range in the month was 0in·950.
The mean for the month was 29in·865, being 0in·027 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 83°·8 on the 12th; the lowest was 41°·5 on the 25th.
The range ,, was 42°·3.
The mean ,, of all the highest daily readings was 70°·9, being 3°·4 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 52°·6, being 3°·7 *higher* than the average of the preceding 17 years.
The mean daily range was 18°·3, being 0°·3 *lower* than the average of the preceding 17 years.
The mean for the month was 60°·3, being 3°·4 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1858.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Sept. 1			10, ci.-cu ci.-s	10, ci.-cu, ci.-s, oc.-r : 0
2			7, ci.-s	10, ci.-cu, cu.-s, ci.-s
3			5, s, ci, sc, sl.-r : 10	10, ci.-s, sc : r
4			10	10, m.-r : h-r
5			10, f	5, ci.-s : 10, t, r : 0, 1
6			10	10, cu, ci.-cu, ci.-s : 0
7			10, cu.-s, ci.-s	10, cu.-s, ci.-s, oc.-r
8			10, r, ci.-cu, ci.-s	5, cu.-s, ci.-s : h
9			5, ci.-cu, ci : 0	10, cu.-s, ci.-s : m.-r
10			10, ci.-cu, cu.-s, ci.-s	10, cu.-s, ci.-s
11			10	10, ci.-cu, ci.-s : 5, ci
12			0, h	0
13			0	0
14			0	0 : 10, ci.-cu, cu.-s, ci.-s
15			10, ci.-cu, cu.-s, ci.-s : 0	0
16			5 : 0	0
17			10, oc.-r	10, oc.-r : 5 h.-r, 1
18			3, ci.-cu, ci	10, ci.-cu, cu-s, ci.-s : 0
19			10, h : r	10, r
20			10, f	10 : 5, cu.-s, s, lu.-cor
21			10, cu.-s, ci.-s	5, ci.-cu, ci.-s : 10, ci.-cu, ci.-s
22			10, cu.-s, ci.-s, oc.-r	10, ci.-cu, ci.-s
23			10, ci.-cu, ci.-s	10, ci.-cu, cu.-s ci.-s : m.-r
24			0	5, ci.-cu, ci.-s : 0
25			2, ci	2, ci
26			10, h	10, ci.-cu, ci.-s
27			10, h	10, ci.-cu, cu.-s, ci.-s : 0
28			10, f	10
29			5, ci.-cu. ci.-s	5, ci.-cu, ci : 10, r
30			10, r	3, ci.-cu, cu.-s

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 61°·9 on the 17th; and the lowest was 42°·2 on the 24th.
The mean ,, was 53°·6, being 2°·6 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0^{in}·412, being 0^{in}·029 *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}·6, being 0^{gr}·4 *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 78 (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 531 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 7·1.

WIND.

The proportions were of N. 3, S. 10, W. 10, and E. 7. The greatest pressure in the month was 9^{lbs}·0 on the square foot on the 23d.

RAIN.

Fell on 10 days in the month, amounting to 0^{in}·9, as measured in the simple cylinder gauge partly sunk below the ground; being 1^{in}·3 *less* than the average fall of the preceding 17 years.

MONTH and DAY, 1858.	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 45 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Oct. 1	..	29·892	65·4	40·1	52·5	44·4	88·1	31·0	60·7	59·2	8·1	20·3	4·8	— 1·0	SW	SW	3·5	0·0	0·3	205	0·00
2	..	29·894	67·5	49·8	57·1	48·5	87·0	43·2	60·7	59·2	8·6	19·6	4·2	+ 3·7	SW	SW	3·5	0·0	1·2	260	0·00
3	..	29·870	69·5	49·7	57·7	49·4	88·1	42·0	60·2	58·2	8·3	14·4	7·0	+ 4·6	SW	SW	5·0	0·0	2·0	90	0·00
4	..	29·758	69·0	52·5	58·7	48·9	82·2	45·0	60·2	58·4	9·8	18·1	4·2	+ 5·7	SSW	SSW	4·0	0·0	1·5	155	0 00
5	In Equator	29·687	62·8	43·2	50·6	44·1	81·0	39·0	59·7	57·4	6·5	10·8	4·4	— 2·2	SW	SW	6·0	0·0	1·5	175	0·25
6	..	29·878	60·5	39·5	48·8	41·6	75·2	41·5	58·7	57·2	7·2	13·4	6·7	— 3·7	WSW	W ; SW	2·0	0·0	0·5	180	0·00
7	New	29·247	64·0	44·7	53·7	51·9	70·0	42·5	56·7	56·2	1·8	6·1	1·4	+ 1·4	SW	W by S	14·0	0·0	3·5	205	0·19
8	..	29·594	57·5	41·3	47·6	38·1	68·0	39·0	58·7	57·2	9·5	17·0	3·1	— 4·5	Var.	NW ; Calm	2·0	0·0	0·1	75	0·09
9	..	29·761	61·0	35·4	47·9	42·6	79·5	30·0	57·7	57·2	5·3	14·8	1·7	— 4·0	WSW	SSW	2·5	0·0	0·2	160	0·00
10	..	29·341	57·2	42·3	50·5	43·8	68·2	41·2	57·7	56·2	6·7	13·2	2·0	— 1·2	SSW	SW ; Calm	10·0	0·0	3·0	145	0·10
11	..	29·494	57·8	40·1	46·3	41·2	73·8	36·5	56·7	55·2	5·1	11·2	2·3	— 5·1	Var.	WNW; W	0·0	0·0	0·0	95	0 00
12	Greatest Declination S.	29·864	60·5	39·7	48·6	41·4	77·0	35·0	57·7	56·2	7·2	14·2	5·3	— 2·4	W	W ; SW	2·0	0·0	0·0	185	0·00
13	Apogee	29·904	63·7	47·5	55·8	54·8	66·0	45·0	56·7	55·2	1·0	3·2	0·0	+ 5·3	SW; W	Calm	5·0	0·0	2·0	120	0·03
14	..	30·052	63·0	52·5	57·5	56·1	64·9	48·0	57·7	56·2	1·4	4·4	1·3	+ 7·4	Calm ; W	WSW	0·0	0·0	0·0	105	0·04
15	First Qr.	29·898	67·1	51·5	56·8	55·1	78·1	50·2	57·7	56·2	1·7	7·0	0·4	+ 7·0	Calm ; SW	SW	0·0	0·0	0·0	55	0·00
16	..	29·644	69·0	44·6	55·9	53·4	83·8	38·2	57·7	56·2	2·5	12·2	0·4	+ 6·3	Calm	SW ; W	0·0	0·0	0·0	75	0·00
17	..	29·703	61·7	46·3	51·3	48·1	66·0	45·3	57·7	56·2	3·2	7·0	1·1	+ 1·9	W	WNW ; NE	0·0	0·0	0·0	40	0·00
18	..	29·586	50·2	43·2	47·1	46·5	60·1	36·0	57·7	56·2	0·6	2·3	0·4	— 2·1	ENE	ENE	3·0	0·0	0·7	150	0·24
19	..	29·488	56·7	47·7	52·5	51·5	57·2	45·5	55·7	54·2	1·0	2·2	0·1	+ 3·4	ENE ; E	ESE	9·0	0·0	2·5	105	0·14
20	In Equator	29·528	59·4	49·7	53·9	52·5	61·3	48·2	57·2	55·2	1·4	4·2	1·3	+ 4·8	E	E	0·0	0·0	0·0	35	0·00
21	..	29·747	61·5	43·6	51·2	50·0	72·8	38·0	57·7	56·2	1·2	6·4	0·0	+ 2·3	Calm	ESE	0·0	0·0	0·0	30	0·00
22	Full	29·904	61·0	46·0	50·9	47·1	75·0	..	57·7	56·2	3·8	9·8	0·2	+ 2·3	NE	E ; Calm	0·0	0·0	0·0	40	0·00
23	..	29·901	61·0	43·5	50·8	49·2	68·0	38·2	57·7	56·2	1·6	6·5	0·6	+ 2·5	NE ; ESE	ESE ; ENE	0·0	0·0	0·0	40	0·00
24	..	29·925	54·5	49·3	51·3	48·4	56·4	48·0	56·7	55·2	2·9	4·0	2·0	+ 3·4	NE	NE	0·0	0·0	0·0	85	0·00
25	Perigee	30·104	57·8	45·3	50·1	45·0	61·5	45·0	56·7	55·2	5·1	8·9	3·2	+ 2·6	NE	E	0·0	0·0	0·0	40	0·00
26	Greatest Declination N.	30·145	54·5	42·7	49·1	45·1	63·5	39·4	55·7	54·2	4·0	9·6	2·2	+ 1·7	ENE	NE	1·5	0·0	0·0	60	0·00
27	..	30·083	57·6	43·0	48·6	42·9	71·2	38·1	55·7	54·6	5·7	9·8	3·1	+ 1·4	NE	NE ; W	0·0	0·0	0·0	90	0·00
28	..	29·884	54·0	43·5	49·3	48·4	54·0	39·0	55·7	54·9	0·9	2·5	0·0	+ 2·3	W	W; NE	4·5	0·0	0·5	140	0·28
29	Last Qr.	30·251	48·2	34·8	41·1	35·7	60·0	30·0	..	..	5·4	9·2	4·7	— 5·7	NNE	NNE	5·3	0·0	0·8	100	0·00
30	..	30·432	52·5	33·0	41·1	37 6	65·7	27·0	53·8	..	3·5	10·1	1·2	— 5·5	NE	NE ; Calm	0·0	0·0	0·0	15	0·00
31	..	30·399	52·0	35·1	41·1	37·4	63·0	34·0	..	..	3·7	10·1	1·5	— 5·4	Calm	NE	0·0	0·0	0·0	25	0·00
Means	..	29·834	59·9	43·9	50·8	46·5	70·5	40·0	57·6	56·3	4·3	9·8	2·3	+ 0·9	...	...	..	..	..	Sum 3280	Sum 1·36

BAROMETER READINGS.

The first maximum in the month was 29in·925 on the 2nd ; the first minimum in the month was 29in·661 on the 5th.
The second maximum ,, was 29in·919 on the 6th ; the absolute minimum ,, was 29in·207 on the 7th.
The third maximum ,, was 29in·808 on the 9th ; the third minimum ,, was 29in·254 on the 10th.
The fourth maximum ,, was 30in·085 on the 14th ; the fourth minimum ,, was 29in·476 on the 19th.
The fifth maximum ,, was 30in·158 on the 26th ; the fifth minimum ,, was 29in·823 on the 28th.
The absolute maximum ,, was 30in·446 on the 30th.
The range in the month was 1in·239.
The mean for the month was 29in·834, being 0in·152 *higher* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 69°·5 on the 3rd ; the lowest was 33°·0 on the 30th ; and the range in the month was 36°·5.
The mean ,, of all the highest daily readings was 59°·9, being 1°·7 *higher* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 43°·9, being 0°·3 *higher* than the average of the preceding 17 years.
The mean daily range was 16°·0, being 1°·4 *higher* than the average of the preceding 17 years.
The mean for the month was 50°·8, being 1°·3 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1858.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Oct. 1			0	5, ci.-cu, ci.-s, s : 0
2			7, ci	7, ci.-cu, ci : 0
3			3, cu, ci.-cu	10, cu, cu.-s, ci.-s
4			10, cu.-s, ci.-s	10, ci.-cu, ci.-s : oc.-r
5			0 : 10, shs.-r	5, h, shs.-r : t
6			5	5, cu, ci.-cu, ci : 10
7			10	10, cu, ci.-cu, ci, oc.-r
8			2, ci	4, cu, ci.-cu : 0
9			0	5, ci.-cu, ci, oc.-r
10			10, ci.-cu, ci	10, oc.-r
11			5, cu, ci.-cu, ci	5, cu, ci.-cu, ci : 0, l
12			7, cu, cu.-s, ci.-s	5, cu, ci.-cu, ci : 0
13			10, r	10 : 0, h
14			10, r	10, ci.-cu, ci
15			10, ci.-cu, ci.-s	10, cu, ci.-cu, ci : 0
16			0	0
17			10, f	3 : 10, ci.-s
18			10, r	10, r
19			10, r	10, n, ci, sc
20			10	7, ci.-cu, ci, n
21			10, f : 10, ci.-cu, ci	10, ci.-cu, ci
22			10 : 5	8, ci.-cu, ci, sc : 0
23			7, ci, f	7, ci.-cu, cu.-s, ci.-s : 10, ci.-s
24			10	10
25			10	5, ci : 0
26			10, ci.-cu, ci.-s, ci	5, cu, ci.-cu, cu.-s : 0, f
27			10, ci, f : 0	0 : f
28			10, r	10, gt.-glm : 0
29			7, cu, ci.-cu, ci	10, oc.-r
30			3, ci.-s, ci, h.-f	3, ci.-s, ci : f
31			2, ci, h	2, cu.-s, li.-cl : th.-f

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 58°·4 on the 15th; and the lowest was 34°·4 on the 31st.
The mean ,, was 46°·5, being 0°·7 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0^{in}·317, being 0^{in}·007 *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}·6, being 0^{gr}·1 *greater* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 85 (that of Saturation being represented by 100), being 1 *less* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 541 grains, being 2 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 6·6.

WIND.

The proportions were of N. 6, S. 6, W. 11, and E. 8. The greatest pressure in the month was 14^{lbs}·0 on the square foot on the 7th.

RAIN.

Fell on 9 days in the month, amounting to 1^{in}·4, as measured in the simple cylinder gauge partly sunk below the ground; being 1^{in}·8 *less* than the average fall of the preceding 17 years.

MONTH and DAY, 1858.	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.	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. Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Nov. 1	..	30·335	46·5	28·2	37·9	36·9	47·7	..	..	..	1·0	4·6	0·9	— 8·5	Calm	Calm	0·0	0·0	0·0	15	0·00
2	In Equator	30·241	52·0	36·0	42·9	39·8	61·0	29·8	..	..	3·1	9·4	1·6	— 3·3	NE	NE ; E	0·0	0·0	0·0	30	0·00
3	..	30·199	54·0	33·2	43·8	38·7	65·0	27·0	..	..	5·1	13·2	0·0	— 2·3	Calm	E	0·0	0·0	0·0	20	0·01
4	..	30·122	52·0	40·5	47·2	45·5	57·0	37·8	..	..	1·7	5·7	0·3	+ 1·3	Calm ; NE	E ; NE	0·0	0·0	0·0	35	0·00
5	New	30·018	51·4	43·8	47·5	41·8	55·0	40·2	..	..	5·7	9·2	2·3	+ 1·8	NNE	NE	3·5	0·0	0·3	110	0·02
6	..	30·172	51·0	37·0	43·0	34·2	60·0	31·2	..	..	8·8	13·9	4·6	— 2·5	NE	NE	5·0	0·0	1·3	110	0·00
7	..	30·255	50·5	35·3	41·5	36·7	60·0	30·0	48·8	47·8	4·8	10·5	1·8	— 3·6	NE	N	2·0	0·0	0·0	60	0·00
8	..	30·170	49·5	38·0	43·7	40·8	55·1	32·0	46·9	46·4	2·9	6·1	1·3	— 1·1	N	N	2·0	0·0	0·0	45	0·00
9	Greatest Declination S.	30·316	47·0	29·3	38·1	32·6	60·0	31·8	46·9	46·0	5·5	13·4	0·0	— 6·4	N ; NE	NE ; Calm	0·0	0·0	0·0	10	0·00
10	Apogee	30·257	43·0	26·8	34·6	31·5	43·0	22·5	45·3	45·0	3·1	6·6	0·6	— 9·7	Calm ; SW	SW ; Calm	0·0	0·0	0·0	0	0·00
11	..	30·144	49·5	30·0	39·8	36·5	58·0	23·0	45·0	45·0	3·3	11·3	0·0	— 4·2	Calm	E	1·8	0·0	0·1	40	0·00
12	..	29·888	45·9	30·0	36·9	34·2	53·0	24·0	44·5	44·5	2·7	9·3	2·0	— 7·0	ESE	E	0·0	0·0	0·0	50	0·00
13	First Qr.	29·407	45·0	31·4	38·7	35·6	47·8	25·0	44·3	44·0	3·1	7·7	1·4	— 4·8	E	ENE	2·0	0·0	0·2	75	0·00
14	..	29·325	45·8	39·5	42·9	36·0	47·0	36·5	43·8	43·8	6·9	9·2	4·4	— 0·4	NE	ENE	13·0	0·0	3·5	230	0·00
15	..	29·509	43·0	33·7	37·5	28·1	47·0	36·2	43·3	43·2	9·4	10·6	9·2	— 5·5	ENE	E	12·0	3·0	5·0	240	0·00
16	In Equator	29·285	39·3	32·0	35·9	30·8	40·0	28·8	42·3	42·3	5·1	6·2	5·0	— 6·7	E	NE	9·0	0·0	2·5	85	0·00
17	..	29·466	42·4	32·4	36·2	30·1	48·9	34·0	42·1	42·1	6·1	8·9	3·3	— 6·2	NE	NE	3·0	0·0	0·3	35	0·00
18	..	29·522	41·6	29·0	35·4	30·4	43·0	24·0	41·8	41·8	5·0	10·6	1·3	— 6·8	NE	NE	3·0	0·0	0·2	40	0·00
19	..	29·733	33·5	26·5	29·1	27·5	33·5	22·3	40·3	40·3	1·6	3·6	0·0	—13·1	Calm	SW	0·0	0·0	0·0	0	0·00
20	..	29·903	37·0	24·6	31·7	30·6	45·0	19·8	39·8	39·8	1·1	3·0	0·7	—10·5	SW	Calm	0·0	0·0	0·0	0	0·00
21	Full	30·000	42·2	27·9	34·1	30 8	48·0	20·8	39·6	39·6	3·3	6·9	0·0	— 7·9	N	Calm	0·0	0·0	0·0	0	0·00
22	Perigee ; Greatest Dec. N.	30·051	43·5	26·0	32·9	28·7	49·3	23·2	39·8	39·8	4·2	12·8	0·0	— 8·8	E	E	2·0	0·0	0·0	10	0·00
23	..	29·919	34·0	21·0	26·5	25·0	37·0	14·0	37·8	37·8	1·5	6·2	1·1	—15·0	E	E	0·0	0·0	0·0	0	0·00
24	..	29·675	30·5	20·5	26·4	24·3	31·0	13·0	37·6	37·6	2·1	5·6	1·4	—14·5	ESE	SE ; E	0·0	0·0	0·0	20	0·00
25	..	29·241	49·5	33·5	42·5	41·6	50·0	26·0	38·6	38·6	0·9	5·3	0·0	+ 1·0	SE	SE	3·0	0·0	0·6	140	0·00
26	..	29·181	58·0	47·7	51·9	48·4	61·5	43·0	39·0	39·0	3·5	5·5	1·1	+11·0	SE ; S	S	2·0	0·0	0·2	115	0·02
27	Last Qr.	28·875	50·0	44·8	47·6	47·2	54·0	40·0	39·8	39·8	0·4	2·9	0·0	+ 6·5	SE	Calm	2·5	0·0	0·3	120	0·21
28	..	29·051	53·8	44·5	47·8	46·4	54·4	39·0	40·8	40·4	1·4	3·2	0·0	+ 6·3	SW ; S	SW	0·0	0·0	0·0	130	0·16
29	In Equator	29·062	53·8	45·0	49·0	47·0	55·6	39·8	41·7	41·7	2·0	3·6	0·8	+ 7·4	SW ; S	SW	3·0	0·0	0·3	135	0·02
30	..	29·168	48·5	40·6	43·8	38·9	48·0	41·0	41·5	41·5	4·9	7·5	2·6	+ 2·2	SW	WSW	7·0	0·0	1·5	205	0·01
Means	..	29·750	46·1	33·6	39·6	35·9	50·5	29·5	42·1	42·0	3·7	7·8	1·6	— 3·7	...	...	..	..	..	Sum 2005	Sum 0·45

BAROMETER READINGS.

The first minimum in the month was $29^{in}\cdot988$ on the 5th.
The absolute maximum in the month was $30^{in}\cdot341$ on the 9th; the second minimum ,, was $29^{in}\cdot268$ on the 14th.
The second maximum ,, was $29^{in}\cdot550$ on the 15th; the third minimum ,, was $29^{in}\cdot273$ on the 16th.
The third maximum ,, was $30^{in}\cdot060$ on the 22nd; the absolute minimum was $28^{in}\cdot844$ on the 27th.
The range in the month was $1^{in}\cdot497$.
The mean for the month was $29^{in}\cdot750$, being $0^{in}\cdot006$ *lower* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 58°·0 on the 26th; the lowest was 20°·5 on the 24th; and the range in the month was 37°·5.
The mean ,, of all the highest daily readings was 46°·1, being 3°·6 *lower* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 33°·6, being 4°·6 *lower* than the average of the preceding 17 years.
The mean daily range was 12°·5, being 1°·1 *higher* than the average of the preceding 17 years.
The mean for the month was 39°·6, being 4°·2 *lower* than the average of the preceding 17 years.

MONTH and DAY, 1858.	ELECTRICITY.		CLOUDS AND WEATHER.			
	A.M.	P.M.	A.M.		P.M.	
Nov. 1			10, f, h.-f		5, ci, f	: 10, r
2			10, ci.-cu, ci.-s	: oc.-r	10, ci.-cu, ci, oc.-r	: 0
3			0, h.-f		5, ci	: 10, r
4			10, r		10, ci.-cu, ci	
5			10, ci.-cu, ci		5, ci.-cu, cu.-s	: 10, r
6			5, ci.-cu, cu.-s		10, ci.-cu, ci	
7			5, ci.-cu, ci		5, cu, ci.-cu, ci	: 0
8			10, ci		10, ci.-cu, cu.-s, ci	: 0
9			3, ci.-cu, cu.-s		3, cu, ci.-cu, ci	
10			7, ci.-cu, ci, f, h.-f		10, ci, f	: 0 th.-f
11			10, f		0	
12			0		8	: 0
13			7, ci.-s, h.-f		10, cu.-s, ci.-s, h	
14	0	0	10		10, ci.-cu, ci.-s, ci	
15	0	0	10, cu.-s, ci.-s		10, ci.-cu, ci.-s	
16	0	0	10		10	: r
17	0	0	10, ci.-cu, ci		10, ci.-cu, ci.-s	
18	0	0	7 ci.-cu, cu.-s	: 0	0	: f
19	0	0	10, f, h.-f		10, f	
20	0	0	1		1	: h, f
21	w	w	10, ci.-cu, ci, f.		0	: 10, ci.-s, sc
22	w	w	0		5, ci.-cu, ci	: 0, h.-f
23	w	w	10, f, h.-f		0, f	
24	w	w	10		10	
25	w	w	10, ci.-cu, ci.-s		10, ci,-s, m.-r	
26	w	w	10, r		10, cu.-s, ci.-s	: 0
27	0	0	10, r		10, r	
28	0	0	10, f, gt.-glm		5, ci.-cu, cu.-s	: 0
29	0	0	10, r		10, ci.-cu, cu.-s, s	: m.-r
30	0	0	10, ci.-cu, cu.-s	: r	10, ci.-cu, ci.-s	

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 50°·5 on the 26th ; and the lowest was 20°·6 on the 23d.

The mean ,, was 35°·9, being 4°·6 *less* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}·211$, being $0^{in}·049$ *less* than the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $2^{gr}·4$, being $0^{gr}·5$ *less* than the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 87 (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 552 grains, being 5 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 7·0.

WIND.

The proportions were of N. 7, S. 5, W. 4, and E. 14. The greatest pressure in the month was $13^{lbs}·0$ on the square foot on the 14th.

RAIN.

Fell on 7 days in the month, amounting to $0^{in}·5$, as measured in the simple cylinder gauge partly sunk below the ground; being $1^{in}·7$ *less* than the average fall of the preceding 17 years.

MONTH and DAY, 1858.	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 45 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Whewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Dec. 1	..	29·627	46·8	40·5	44·3	38·0	47·0	38·0	41·5	41·5	6·3	9·5	3·5	+ 2·6	NW	SW	6·0	0·0	1·8	155	0·12
2	..	29·614	51·0	39·6	46·2	43·6	51·3	39·8	42·8	42·8	2·6	5·7	1·9	+ 4·4	S by W	W ; SW	3·0	0·0	0·3	85	0·04
3	..	30·007	51·9	33·5	43·7	42·0	54·0	28·0	41·9	41·9	1·7	5·5	1·3	+ 2·0	SW	SW	3·0	0·0	0·2	135	0·00
4	..	29·801	52·0	46·2	49·4	49·0	53·0	42·5	41·5	41·5	0·4	1·5	0·0	+ 7·9	SW	SW	3·0	0·0	0·4	85	0·09
5	New	29·953	49·2	38·5	43·0	38·6	47·8	40·0	43·5	43·5	4·4	6·3	4·0	+ 1·6	W	NNW	2·0	0·0	0·2	60	0·00
6	Greatest Declination S.	30·159	37·0	30·5	33·5	33·3	37·0	25·0	43·0	43·0	0·2	0·3	0·0	— 7·6	N ; W	W	0·0	0·0	0·0	0	0·00
7	..	30·080	39·0	30·3	34·6	33·4	39·0	25·0	42·8	42·8	1·2	3·5	0·7	— 6·1	Calm	NE	0·0	0·0	0·0	0	0·00
8	Apogee	30·111	39·5	34·7	36·7	35·1	39·5	32·0	42·4	42·4	1·6	5·8	1·0	— 3·9	ESE	Calm	0·0	0·0	0·0	0	0·00
9	..	30·168	40·0	35·5	38·2	35·5	40·0	32·0	42·8	42·8	2·7	5·5	2·2	— 2·3	Calm	Calm	0·0	0·0	0·0	10	0·00
10	..	30·171	39·8	33·1	35·3	31·4	39·8	31·0	42·3	42·3	3·9	4·4	3·3	— 5·1	SE	Calm	0·0	0·0	0·0	0	0·00
11	..	30·160	37·5	31·5	34·5	31·6	37·6	29·0	41·8	41·8	2·9	3·3	2·8	— 5·7	S	S	0·0	0·0	0·0	35	0·00
12	..	29·928	37·7	35·3	36·2	30·4	38·0	34·0	41·5	41·5	5·8	6·0	4·5	— 3·8	S	S	1·5	0·0	0·0	55	0·00
13	First Quarter In Equator	29·774	46·0	34·8	41·9	40·5	46·4	33·0	41·5	41·5	1·4	2·9	0·7	+ 2·3	Variable	SW ; W	0·0	0·0	0·0	0	0·07
14	..	30·049	40·0	37·0	38·2	36·4	42·0	33·4	41·5	41·5	1·8	3·6	0·0	— 1·5	Calm	Calm	0·0	0·0	0·0	0	0·00
15	..	30·069	43·0	33·5	38·1	36·1	45·0	30·7	41·2	41·2	2·0	4·8	0·0	— 1·9	NE ; N	E ; SE	2·5	0·0	0·1	50	0·00
16	..	30·018	40·0	34·5	36·9	33·8	42·0	32·0	41·0	41·0	3·1	3·8	2·6	— 3·4	SE ; S	SE	2·5	0·0	0·1	30	0·00
17	..	29·804	41·2	34·5	37·4	34·3	41·2	32·2	40·5	40·5	3·1	4·1	2·6	— 2·7	SE	SE ; S	0·0	0·0	0·0	90	0·00
18	..	29·424	51·0	34·9	43·3	41·8	52·5	32·0	40·5	40·5	1·5	4·2	1·4	+ 3·4	S	S ; SW	10·0	0·0	2·5	210	0·26
19	..	29·379	48·5	42·0	45·2	41·6	51·8	24·0	42·0	42·0	3·6	5·7	2·6	+ 5·7	SW	SW	4·0	0·0	1·5	150	0·25
20	Greatest Dec. N. Full	29·528	46·5	34·9	40·6	37·0	46·5	32·0	42·0	42·0	3·6	5·5	1·9	+ 1·6	SW	SSW	0·0	0·0	0·0	110	0·00
21	Perigee	29·566	53·5	39·5	48·0	47·7	53·5	35·0	41·5	41·5	0·3	3·2	0·0	+ 9·6	S	SW	7·0	0·0	3·0	230	0·06
22	..	29·573	49·3	42·5	45·2	38·1	53·0	39·0	41·9	41·9	7·1	8·2	6·6	+ 7·3	SW	WSW	12·0	0·5	4·0	215	0·05
23	..	29·234	52·2	40·5	47·3	44·0	53·0	39·0	42·6	42·6	3·3	6·5	1·1	+ 9·9	SW ; S	SW	16·0	0·5	4·5	255	0·14
24	..	29·402	48·0	39·5	43·1	36·6	53·0	34·5	42·4	42·4	6·5	8·0	4·1	+ 6·1	WSW	SW	11·0	0·0	2·5	155	0·00
25	..	29·387	47·5	35·1	42·3	41·7	48·8	28·8	42·9	42·9	0·6	3·7	0·0	+ 5·6	Calm	S ; SW	4·0	0·0	0·5	175	0·35
26	In Equator	29·156	49·8	39·5	43·7	39·1	55·0	33·0	42·4	42·4	4·6	7·6	0·9	+ 7·3	SW	WSW	14·0	0·0	3·2	245	0·18
27	Last Qr.	29·288	44·0	38·4	41·5	36·1	45·2	34·0	42·4	42·4	5·4	6·2	3·0	+ 5·0	WSW	W	8·0	0·0	1·0	130	0·00
28	..	29·589	45·0	36·5	41·1	36·7	45·7	34·0	42·1	42·1	4·4	6·9	1·4	+ 4·1	NW	SW	4·0	0·0	0·5	55	0·02
29	..	29·820	45·0	35·2	39·2	34·4	46·8	29·0	41·5	41·5	4·8	6·8	2·5	+ 1·9	NW	NW	3·0	0·0	0·4	85	0·00
30	..	29·963	43·8	31·9	39·2	39·2	43·4	24·0	41·5	41·5	0·0	2·5	0·0	+ 1·8	Calm	SW	0·0	0·0	0·0	10	0·02
31	..	30·101	44·0	39·5	41·8	41·1	44·3	35·3	41·2	41·2	0·7	1·8	0·0	+ 4·2	Calm	S	0·0	0·0	0·0	35	0·02
Means	..	29·771	45·1	36·6	41·0	38·0	46·3	32·6	41·9	41·9	3·0	4·9	1·8	+ 1·6	...	...	..	..	..	Sum 2850	Sum 1·67

BAROMETER READINGS.

The first maximum in the month was 30in·030 on the 3rd; the first minimum in the month was 29in·783 on the 4th.
The absolute maximum ,, was 30in·200 on the 6th; the second minimum ,, was 29in·744 on the 13th.
The third maximum ,, was 30in·138 on the 15th; the third minimum ,, was 29in·382 on the 19th.
The fourth maximum ,, was 29in·639 on the 21st; the absolute minimum ,, was 29in·091 on the 23rd.
The fifth maximum ,, was 29in·515 on the 25th; the fifth minimum ,, was 29in·145 on the 26th.
The range in the month was 1in·109.
The mean for the month was 29in·771, being 0in·065 *lower* than the average of the preceding 17 years.

TEMPERATURE OF THE AIR.

The highest in the month was 53°·5 on the 21st; the lowest was 30°·3 on the 7th; and the range in the month was 23°·2.
The mean ,, of all the highest daily readings was 45°·1, being 0°·3 *lower* than the average of the preceding 17 years.
The mean ,, of all the lowest daily readings was 36°·6, being 0°·8 *higher* than the average of the preceding 17 years.
The mean daily range was 8°·5, being 1°·1 *lower* than the average of the preceding 17 years.
The mean for the month was 41°·0, being 0°·5 *higher* than the average of the preceding 17 years.

MONTH and DAY, 1858.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Dec. 1	0	0	2, ci, h	2, ci : 10, h.-r
2	0	0	10, r	10, ci.-cu, cu.-s, ci.-s : 0
3	0	0	2, ci	2, ci.-cu, ci.-s
4	0	0	10, r	10, r
5	0	0	0, h	9, cu, ci.-cu : 0
6	0	0	10, f	10, th.-f
7	0	0	10, th.-f	10, ci.-cu, ci.-s
8	0	0	10	10, r
9	0	0	10	10
10	0	0	10	10
11	0	0	10	10
12	0	0	10	10
13	0	0	10	10
14	0	0	10, f	10, f
15	0	0	10, th.-f, oc.-r	10, cu, ci.-cu : 7, ci : 10
16	0	0	10	10, cu.-s, ci.-s : oc.-r
17	0	0	10	10, ci.-cu, cu.-s
18	0	0	10, ci.-cu, ci.-s	10, h.-r : 0
19	0	0	2	2 : 7, ci.-cu, ci
20	0	0	0, h.-f	0 : 10
21	0	0	10, r	10, r
22	s s : 0	0	8, ci.-cu, ci.-s	0 : 10, s
23	0	0	10, r	10, r
24	0	0 : w	0	0
25	0	0	10, oc.-r	10, oc.-r
26	0	0	10, ci.-cu, ci.-s	0 : 2
27	0	w : 0	3, ci	5, ci.-s : 0
28	0	0 : w	10	10, ci.-cu, ci
29	w : 0	0	5, ci.-cu, ci	5, ci.-cu, ci : 0
30	0	m	10	10, r
31	0	0	10, m.-r, f	10

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 51°·5 on the 4th; and the lowest was 30°·3 on the 7th.

The mean ,, was 38°·0, being 0°·8 *higher* than the average of the preceding 17 years.

Elastic Force of Vapour.—The mean for the month was 0^{in}·229, being the same as the average of the preceding 17 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2^{gr}·6, being the same as the average of the preceding 17 years.

Degree of Humidity.—The mean for the month was 89 (that of Saturation being represented by 100), being 1 *greater* than the average of the preceding 17 years.

Weight of a Cubic Foot of Air.—The mean for the month was 551 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 7·7.

WIND.

The proportions were of N. 3, S. 14, W. 10, and E. 4. The greatest pressure in the month was 16^{lbs}·0 on the square foot on the 23rd.

RAIN.

Fell on 14 days in the month, amounting to 1^{in}·7, 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.

MEMORANDUM

REGARDING THE APPEARANCE OF A CLOUD, 1858, MARCH 16.

THE Annular Eclipse of the Sun took place on March 15. I was stationed, for the purpose of observing it, at Harrowden, near Wellingborough. The sky for some time before, and during, and after the Eclipse, was the most hopeless that I ever saw. After a bright morning there came a uniform dull leaden cirro-stratus over every part of the heavens. The Sun's form was scarcely seen at all; once only, when a crescent seemed partly visible to the naked eye, I directed the telescope to it, but could see nothing whatever, except an appearance as of fog-drops crossing the field. The air must have been in a singular state as regards moisture, and this, probably, may lead to the explanation of the following phænomena:—

On March 16, about $\frac{1}{2}$ an hour after noon, at Keysoe, near Kimbolton, the Sun being partially hidden by a cloud of a long shape,—possibly 12° long and 6° broad,—I perceived that this cloud was edged all round by stripes of pink and green, like those in Newton's rings of a high order; they were most brilliant, but, I think, narrowest, in that part to which the Sun was nearest. In that part there were certainly four pinks and four greens, and so I believe there were in the whole circumference, but I am not quite so certain of it. Within the cloud, the Sun himself was surrounded by irregular rings, four pinks and four greens.

The cloud seemed so stationary while there was a sensible N.W. wind blowing below, that I thought for a long time that it must be local, like a mountain cloud. It moved away at last, but very slowly, as carried by the wind. If its motion was simply a wind-motion, it was very high. I watched it nearly an hour.

G. B. AIRY.

MAXIMA AND MINIMA READINGS OF THE BAROMETER.

The following table contains the highest and lowest readings of the Barometer, reduced to 32° Fahrenheit, abstracted 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, 1858.		Reading.	Approximate Mean Solar Time, 1858.		Reading.	Approximate Mean Solar Time, 1858.		Reading.	Approximate Mean Solar Time, 1858.		Reading.
	d h m	in.		d h m	in.		d h m	in.		d h m	in.
January	11. 21. 0	30·455	January	9. 3. 0	29·920	July	11. 21. 0	29·968	July	6. 9. 0	29·473
	16. 22. 30	30·557		13. 3. 0	30·144		18. 21. 0	30·002		15. 3. 0	29·659
	23. 22. 20	30·489		20. 0. 0	29·733		21. 21. 0	29·820		20. 21. 0	29·597
	28. 21. 0	30·160		26. 9. 0	29·930		26. 9. 0	29·814		24. 21. 15	29·311
February	9. 21. 0	30·017	February	3. 21. 0	29·393	August	0. 22. 0	30·136		27. 9. 0	29·569
	12. 9. 0	30·089		10. 21. 0	29·863		6. 21. 0	30·264	August	3. 0. 0	29·670
	17. 9. 0	30·042		14. 1. 0	29·782		15. 21. 0	29·919		14. 3. 0	29·718
	24. 21. 0	30·206		22. 21. 0	29·566		20. 9. 0	29·769		18. 9. 0	29·505
March	3. 9. 0	29·656	March	1. 3. 0	29·388		23. 21. 0	30·026		21. 9. 0	29·525
	11. 21. 0	30·071		5. 21. 0	28·882	September	14. 9. 0	30·060		29. 21. 0	29·530
	13. 22. 30	29·508		13. 3. 0	29·143		20. 9. 0	30·093	September	17. 9. 0	29·510
	21. 21. 0	30·448		14. 7. 40	29·378		24. 21. 0	30·416		23. 0. 0	29·497
	25. 9. 0	30·158		24. 9. 0	29·951	October	1. 21. 0	29·925		29. 21. 0	29·466
April	1. 21. 45	29·798		31. 9. 0	28·938		6. 0. 0	29·919	October	5. 3. 0	29·661
	4. 9. 30	30·003	April	3. 3. 0	29·427		8. 21. 0	29·808		7. 3. 0	29·207
	14. 0. 0	30·035		7. 21. 0	29·367		13. 21. 0	30·085		10. 7. 0	29·254
	17. 22. 0	30·087		16. 9. 0	29·738		26. 0. 0	30·158		19. 0. 0	29·476
	21. 21. 0	30·270		19. 3. 0	29·911		30. 9. 0	30·446		28. 3. 0	29·823
May	6. 21. 0	30·257	May	0. 21. 0	28·951	November	9. 9. 0	30·341	November	5. 3. 0	29·988
	19. 21. 0	29·972		15. 3. 0	29·262		14. 21. 0	29·550		13. 22. 0	29·268
	26. 0. 0	30·393		24. 9. 0	29·322		22. 0. 0	30·060		16. 3. 0	29·273
June	4. 9. 0	30·011	June	3. 9. 0	29·648	December	3. 0. 0	30·030		27. 3. 0	28·844
	6. 9. 15	30·036		4. 21. 0	29·859		6. 9. 0	30·200	December	4. 9. 0	29·783
	14. 21. 0	29·860		8. 3. 0	29·713		14. 21. 0	30·138		12. 21. 0	29·744
	22. 21. 0	30·207		16. 21. 0	29·596		20. 21. 0	29·639		18. 22. 30	29·382
	27. 21. 0	30·017		26. 9. 0	29·849		24. 22. 30	29·515		23. 9. 0	29·091
July	3. 9. 0	30·073	July	2. 3. 0	29·869					26. 1. 0	29·145

MONTHLY MEANS of RESULTS for METEOROLOGICAL ELEMENTS at the ROYAL OBSERVATORY, GREENWICH, in the Year 1858.

1858, 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	30·171	51·9	20·9	31·0	43·6	31·7	11·9	37·5	33·5
February	29·841	52·8	23·5	29·3	41·8	29·8	12·0	34·6	30·3
March	29·761	68·7	23·6	45·1	50·7	33·6	17·1	41·4	34·5
April	29·779	76·0	27·2	48·8	57·6	38·0	19·6	46·2	39·1
May	29·742	81·2	32·1	49·1	63·7	42·7	21·0	51·7	43·5
June	29·915	94·5	45·3	49·2	79·5	53·9	25·6	64·9	54·4
July	29·781	88·2	43·8	44·4	73·9	51·9	22·0	60·7	51·3
August	29·826	86·9	43·3	43·6	75·6	52·1	23·5	62·0	51·6
September	29·865	83·8	41·5	42·3	70·9	52·6	18·3	60·3	53·6
October	29·834	69·5	33·0	36·5	59·9	43·9	16·0	50·8	46·5
November	29·750	58·0	20·5	37·5	46·1	33·6	12·5	39·6	35·9
December	29·771	53·5	30·3	23·2	45·1	36·6	8·5	41·0	38·0
Means	29·836	72·1	32·1	40·0	59·0	41·7	17·3	49·2	42·7

1858, 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 the 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	0·192	2·2	0·4	86	563	SW	0·18	120	5·6	5	0·8
February	0·169	2·0	0·3	84	560	NE	0·05	83	5·1	6	1·7
March	0·199	2·3	0·7	78	551	NW; W	0·10	87	5·4	8	0·8
April	0·238	2·8	0·9	77	545	E	0·05	73	6·2	11	2·3
May	0·283	3·2	1·2	75	539	SW	..	96	7·0	17	2·0
June	0·424	4·6	2·1	69	527	SW	0·10	34	5·2	5	1·2
July	0·378	4·2	1·7	71	529	SW	0·43	77	6·9	12	3·0
August	0·382	4·2	2·0	69	529	SW	0·29	..	5·1	8	1·5
September	0·412	4·6	1·3	78	531	SW; NE	0·49	101	7·1	10	0·9
October	0·317	3·6	0·6	85	541	SW; NE	0·66	106	6·6	9	1·4
November	0·211	2·4	0·4	87	552	NE	0·54	67	7·0	7	0·5
December	0·229	2·6	0·4	89	551	SW	0·86	92	7·7	14	1·7
Means	0·286	3·2	1·0	79	543	..	..	..	6·2	Sum 112	Sum 17·8

READINGS OF THERMOMETERS SUNK IN THE GROUND.

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

Day of the Month, 1858.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	52 ·21	51 ·65	50 ·95	49 ·98	49 ·13	48 ·82	48 ·94	*S*	50 ·74	51 ·62	52 ·13	52 ·32
2	52 ·20	51 ·62	50 ·92	Good Friday.	*S*	48 ·83	48 ·96	49 ·77	50 ·70	51 ·56	52 ·25	52 ·35
3	*S*	51 ·66	50 ·84	49 ·93	49 ·11	48 ·83	48 ·97	49 ·83	50 ·75	*S*	52 ·18	52 ·32
4	52 ·14	51 ·62	50 ·82	*S*	49 ·07	48 ·82	*S*	49 ·84	50 ·80	51 ·78	52 ·20	52 ·40
5	52 ·13	51 ·60	50 ·83	49 ·85	49 ·07	48 ·81	49 ·03	49 ·86	*S*	51 ·80	52 ·20	*S*
6	52 ·07	51 ·62	50 ·74	49 ·77	49 ·07	*S*	49 ·03	49 ·90	50 ·83	51 ·81	52 ·23	52 ·29
7	52 ·10	*S*	*S*	49 ·97	49 ·03	48 ·80	49 ·04	49 ·94	50 ·85	51 ·90	*S*	52 ·29
8	52 ·12	51 ·53	50 ·74	49 ·74	49 ·02	48 ·81	49 ·09	*S*	50 ·90	51 ·90	52 ·25	52 ·32
9	52 ·10	51 ·48	50 ·70	49 ·70	*S*	48 ·83	49 ·10	49 ·98	50 ·93	51 ·80	52 ·22	52 ·30
10	*S*	51 ·43	50 ·67	49 ·66	48 ·97	48 ·82	49 ·11	50 ·06	50 ·95	*S*	52 ·22	52 ·26
11	52 ·08	51 ·42	50 ·62	*S*	48 ·96	48 ·84	*S*	50 ·06	51 ·03	51 ·76	52 ·25	52 ·25
12	52 ·05	51 ·44	50 ·63	49 ·69	48 ·94	48 ·82	49 ·18	50 ·13	*S*	51 ·80	52 ·24	*S*
13	53 ·06	51 ·40	50 ·60	49 ·60	48 ·94	*S*	49 ·20	50 ·14	51 ·08	51 ·84	52 ·24	52 ·30
14	52 ·00	*S*	*S*	49 ·58	48 ·93	48 ·83	49 ·27	50 ·13	51 ·10	51 ·86	*S*	52 ·28
15	51 ·98	51 ·35	50 ·55	49 ·58	48 ·89	48 ·84	49 ·29	*S*	51 ·12	51 ·80	52 ·25	52 ·26
16	52 ·00	51 ·32	50 ·56	49 ·56	*S*	48 ·83	49 ·27	50 ·20	51 ·18	51 ·91	52 ·25	52 ·25
17	*S*	51 ·32	50 ·47	49 ·49	48 ·88	48 ·83	49 ·30	50 ·29	51 ·20	*S*	52 ·30	52 ·24
18	51 ·95	51 ·26	50 ·47	*S*	48 ·86	48 ·82	*S*	50 ·32	51 ·20	51 ·80	52 ·28	52 ·26
19	51 ·94	51 ·24	50 ·40	49 ·44	48 ·78	48 ·83	49 ·37	50 ·32	*S*	51 ·90	52 ·26	*S*
20	51 ·92	51 ·21	50 ·40	49 ·44	48 ·87	*S*	49 ·40	50 ·32	51 ·24	51 ·98	52 ·28	52 ·22
21	51 ·90	*S*	*S*	49 ·43	48 ·99	48 ·86	49 ·37	50 ·50	51 ·28	52 ·00	*S*	52 ·22
22	51 ·85	51 ·17	50 ·35	49 ·40	48 ·83	48 ·87	49 ·42	*S*	51 ·30	52 ·04	52 ·32	52 ·20
23	51 ·82	51 ·14	50 ·34	49 ·37	*S*	48 ·87	49 ·50	50 ·43	51 ·32	52 ·07	52 ·30	52 ·18
24	*S*	51 ·13	50 ·28	49 ·33	48 ·84	48 ·87	49 ·50	50 ·44	51 ·36	*S*	52 ·36	52 ·17
25	51 ·80	51 ·09	50 ·20	*S*	48 ·82	48 ·90	*S*	50 ·46	51 ·40	52 ·14	52 ·32	Christ. Day.
26	51 ·76	51 ·04	50 ·20	49 ·26	48 ·23	48 ·92	49 ·56	50 ·51	*S*	52 ·10	52 ·35	*S*
27	51 ·79	51 ·00	50 ·17	49 ·20	48 ·80	*S*	49 ·60	50 ·50	51 ·42	52 ·10	52 ·35	52 ·12
28	51 ·75	*S*	*S*	49 ·23	48 ·81	48 ·93	49 ·60	50 ·55	51 ·48	52 ·11	*S*	52 ·10
29	51 ·75		50 ·10	49 ·20	48 ·80	48 ·93	49 ·64	*S*	51 ·53	52 ·10	52 ·35	52 ·07
30	51 ·74		50 ·08	49 ·17	*S*	49 ·00	49 ·68	50 ·61	51 ·55	52 ·14	52 ·33	52 ·03
31	*S*		50 ·02		48 ·84		49 ·72	50 ·63		*S*		52 ·00
Means	51 ·97	51 ·36	50 ·50	49 ·54	48 ·92	48 ·85	49 ·30	50 ·22	51 ·12	51 ·91	52 ·27	52 ·23

(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, 1858.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	51 ·73	49 ·26	47 ·14	45 ·62	46 ·50	48 ·40	51 ·90	*S*	56 ·05	56 ·35	55 ·32	52 ·60
2	51 ·66	49 ·12	47 ·08	Good Friday.	*S*	48 ·50	52 ·00	54 ·48	56 ·00	56 ·30	55 ·35	52 ·50
3	*S*	49 ·14	47 ·02	45 ·65	46 ·63	48 ·52	52 ·12	54 ·56	56 ·08	*S*	55· 32	52 ·35
4	51 ·50	49 ·05	46 ·90	*S*	46 ·68	48 ·63	*S*	54 ·61	56 ·12	56 ·35	55 ·26	52 ·38
5	51 ·44	48 ·90	46 ·85	45 ·70	46 ·83	48 ·67	52 ·40	54 ·67	*S*	56 ·30	55 ·20	*S*
6	51 ·30	48 ·95	46 ·73	45 ·70	46 ·88	*S*	52 ·52	54 ·67	56 ·10	56 ·30	55 ·14	52 ·06
7	51 ·30	*S*	*S*	45 ·81	46 ·93	48 ·80	52 ·60	54 ·73	56 ·11	56 ·30	*S*	51 ·90
8	51 ·30	48 ·65	46 ·62	45 ·76	47 ·00	48 ·90	52 ·72	*S*	56 ·15	56 ·25	55 ·00	51 ·93
9	51 ·22	48 ·52	46 ·51	45 ·80	*S*	49 ·06	52 ·85	54 ·87	56 ·20	56 ·28	54 ·88	51 ·78
10	*S*	48 ·45	46 ·45	45 ·80	47 ·13	49 ·14	52 ·92	54 ·93	56 ·16	*S*	54 ·72	51 ·65
11	51 ·12	48 ·38	46 ·40	*S*	47 ·12	49 ·30	*S*	54 ·97	56 ·25	56 ·20	54 ·72	51 ·60
12	50 ·94	48 ·33	46 ·35	45 ·89	47 ·23	49 ·36	53 ·08	55 ·07	*S*	56 ·20	54 ·62	*S*

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

Day of the Month, 1858.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
13	50·89	48·29	46·30	45·90	47·23	*S*	53·21	55·07	56·28	56·23	54·50	51·58
14	50·80	*S*	*S*	46·00	47·35	49·67	53·28	55·08	56·25	56·20	*S*	51·46
15	50·72	48·15	46·11	46·00	47·32	49·80	53·43	*S*	56·24	56·20	54·33	51·40
16	50·62	48·05	46·13	46·07	*S*	49·96	53·38	55·19	56·26	56·16	54·21	51·32
17	*S*	47·98	46·02	46·01	47·47	50·01	53·46	55·36	56·22	*S*	54·13	51·25
18	50·48	47·87	45·98	*S*	47·50	50·10	*S*	55·36	56·20	56·00	54·04	51·20
19	50·40	47·83	45·88	46·06	47·61	50·26	53·56	55·40	*S*	55·95	53·90	*S*
20	50·35	47·71	45·80	46·08	47·60	*S*	53·62	55·38	56·20	55·97	53·80	51·05
21	50·20	*S*	*S*	46·12	47·77	50·54	53·62	55·41	56·20	55·92	*S*	51·00
22	50·13	47·62	45·70	46·10	47·70	50·77	53·71	*S*	56·25	55·87	53·66	50·90
23	50·00	47·56	45·73	46·15	*S*	50·87	53·80	55·63	56·27	55·84	53·48	50·80
24	*S*	47·53	45·67	46·11	47·86	51·00	53·84	55·67	56·24	*S*	53·35	50·75
25	49·82	47·40	45·60	*S*	47·85	51·12	*S*	55·67	56·31	55·71	53·30	Christ. Day.
26	49·72	47·37	45·60	46·23	47·96	51·30	53·97	55·73	*S*	55·70	53·27	*S*
27	49·71	47·24	45·60	46·21	48·00	*S*	54·06	55·73	56·32	55·65	53·12	50·52
28	49·63	*S*	*S*	46·32	48·13	51·54	54·08	55·80	56·32	55·57	*S*	50·45
29	49·56		45·56	46·38	48·12	51·65	54·16	*S*	56·36	55·46	52·90	50·35
30	49·48		45·63	46·42	*S*	51·90	54·27	55·90	56·36	55·49	52·72	50·20
31	*S*		45·59		48·36		54·32	55·93		*S*		50·12
Means.	50·62	48·22	46·18	46·00	47·41	49·91	53·29	55·22	56·21	56·03	54·24	51·35

(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, 1858.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	49·73	45·14		44·92	48·57	51·68	59·09	*S*	60·65	59·43	55·60	49·00
2	49·54	45·13		Good Friday.	*S*	51·94	59·17	59·94	60·53	59·30	55·43	49·02
3	*S*	45·15		45·22	48·83	52·24	59·22	59·95	60·45	*S*	55·20	49·03
4	49·20	45·12		*S*	48·80	52·62	*S*	59·95	60·40	59·23	54·90	49·30
5	49·07	45·04		45·36	48·86	52·95	59·28	60·03	*S*	59·12	54·64	*S*
6	48·86	45·20		45·42	48·83	*S*	59·25	60·05	60·20	59·01	54·39	49·10
7	48·66	*S*		45·52	48·84	53·70	59·11	60·15	60·20	58·95	*S*	49·10
8	48·50	44·95		45·52	48·88	54·02	59·12	*S*	60·12	58·76	54·00	49·15
9	48·22	44·92		45·64	*S*	54·36	59·05	60·22	60·10	58·65	53·70	48·96
10	*S*	44·90		45·52	49·03	54·56	58·96	60·43	59·97	*S*	53·48	48·80
11	47·73	44·80		*S*	49·09	54·80	*S*	60·45	59·99	58·24	53·30	48·72
12	47·60	44·78		45·49	49·15	55·10	58·78	60·62	*S*	58·10	53·10	*S*
13	47·59	44·55		45·50	49·30	*S*	58·67	60·65	59·94	57·95	52·83	48·70
14	47·62	*S*		45·43	49·44	55·76	58·64	60·70	59·88	57·70	*S*	48·50
15	47·56	44·17		45·50	49·50	56·10	58·80	*S*	59·90	57·50	52·30	48·38
16	47·42	44·11		45·52	*S*	56·42	58·72	60·95	59·94	57·38	52·04	48·34
17	*S*	44·14		45·51	49·68	56·61	58·85	61·20	59·95	*S*	51·80	48·20
18	47·24	44·11		*S*	49·72	56·93	*S*	61·20	60·00	57·10	51·52	48·16
19	47·10	44·14		45·92	49·85	57·32	59·22	61·18	*S*	57·10	51·30	*S*
20	46·97	44·04		46·18	49·94	*S*	59·38	61·13	60·10	57·02	51·10	47·90
21	46·80	*S*		46·46	50·16	57·82	59·40	61·13	60·08	56·92	*S*	47·90
22	46·78	44·01		46·56	50·20	58·02	59·53	*S*	60·10	56·83	50·60	47·85
23	46·54	43·79		46·82	*S*	58·12	59·72	61·31	60·00	56·74	50·31	47·82
24	*S*	43·64		47·10	50·57	58·19	59·77	61·25	59·90	*S*	50·03	47·80
25	46·36	43·50	43·60	*S*	50·71	58·33	*S*	61·08	59·90	56·55	49·85	Christ. Day
26	46·20		44·02	47·61	50·92	58·55	59·90	61·01	*S*	56·48	49·60	*S*

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

Day of the Month, 1858.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
27	46·03	43·30	44·14	47·84	50·98	*S*	60·00	60·92	59·74	56·40	49·30	47·80
28	45·80	*S*	*S*	48·12	51·15	58·77	59·95	60·92	59·64	56·28	*S*	47·80
29	45·60		44·48	48·31	51·20	58·90	60·02	*S*	59·60	56·05	49·00	47·70
30	45·50		44·62	48·44	*S*	59·12	60·05	60·82	59·50	56·02	48·96	47·46
31	*S*		44·60		51·48		60·02	60·72		*S*		47·35
Means.	47·47	44·46	44·24	46·22	49·76	55·88	59·32	60·69	60·03	57·65	52·24	48·38

At temperatures below 43°·50 the fluid of this thermometer descends below the scale; the readings from March 1 to March 24 were all less than 43°·50.

(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, 1858.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	45·13	40·92		44·80	49·86	55·40	63·96	*S*	61·80	60·18	52·26	45·70
2	44·96	40·71		Good Friday.	*S*	56·53	63·74	62·66	61·57	59·77	51·62	45·73
3	*S*	40·34		44·28	49·26	57·50	63·30	62·91	61·50	*S*	51·22	45·85
4	44·62	40·07		*S*	49·10	58·35	*S*	63·21	61·71	59·35	50·80	45·90
5	44·24	40·50		44·65	49·15	58·87	62·52	63·44	*S*	59·25	50·70	*S*
6	43·30	41·30		44·48	49·03	*S*	62·37	63·64	61·70	58·90	50·70	46·00
7	42·67	*S*		44·40	49·23	59·12	62·00	63·70	61·28	58·30	*S*	45·55
8	42·14	40·90		44·18	49·24	59·24	61·74	*S*	61·00	57·82	50·10	45·20
9	42·12	40·39		44·28	*S*	59·65	61·20	63·74	61·03	57·50	49·78	44·80
10	*S*	39·88		44·03	49·64	60·20	60·80	63·94	60·90	*S*	49·40	44·55
11	43·16	39·88		*S*	50·08	60·80	*S*	64·16	61·15	56·40	48·87	44·38
12	43·42	39·60		43·70	50·45	61·19	60·62	64·63	*S*	56·10	48·32	*S*
13	43·32	39·40		43·72	50·48	*S*	61·06	64·94	61·53	55·64	47·80	43·98
14	43·07	*S*		43·80	50·33	62·12	61·60	65·22	61·70	55·64	*S*	43·85
15	42·72	39·91		43·90	50·30	62·70	62·22	*S*	61·93	55·98	47·09	44·00
16	42·32	39·84		44·55	*S*	63·49	62·80	64·94	62·18	56·30	46·88	44·00
17	*S*	40·00		45·07	50·81	64·01	63·42	64·95	62·30	*S*	46·54	43·90
18	42·28	39·70	40·25	*S*	50·95	64·38	*S*	64·75	62·32	56·26	46·33	43·80
19	41·90	39·74	41·18	46·75	51·36	64·10	63·60	64·82	*S*	55·92	45·90	*S*
20	41·98	39·30	41·70	47·17	51·45	*S*	63·60	64·79	61·60	55·72	45·38	44·25
21	42·03	*S*	*S*	47·63	51·85	63·40	63·52	64·60	61·30	55·73	*S*	44·20
22	41·91	39·10	42·76	48·02	52·30	63·45	63·80	*S*	61·20	55·62	44·44	44·25
23	41·47	39·10	43·01	48·64	*S*	63·70	63·73	63·69	61·10	55·56	44·00	44·60
24	*S*	38·90	43·13	49·15	52·97	63·88	63·70	63·50	61·05	*S*	43·50	44·80
25	40·70	38·80	43·48	*S*	52·92	64·08	*S*	63·50	60·95	55·25	43·08	Christ. Day.
26	40·24		43·80	49·92	52·92	64·10	63·54	63·55	*S*	55·10	42·90	*S*
27	39·92	38·50	43·78	49·86	52·74	*S*	63·42	63·12	60·22	54·92	43·60	44·40
28	39·58	*S*	*S*	49·96	52·92	64·30	63·21	62·90	60·12	54·59	*S*	44·30
29	39·40		43·88	49·94	53·12	64·10	63·06	*S*	60·12	54·13	45·00	44·05
30	39·50		44·11	50·00	*S*	64·20	62·71	62·26	60·10	53·70	45·40	43·60
31	*S*		44·34		54·45		62·43	61·90		*S*		43·23
Means.	42·23	39·84	42·95	46·29	51·03	61·65	62·73	63·82	61·28	56·52	47·37	44·57

At temperatures below 39°·70 the fluid of this thermometer descends below the scale; the readings on those days, which are slightly below this value, are estimated readings only, and therefore liable to some uncertainty. From March 1 to March 17 the readings were all below 39°.

(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, 1858.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	41·1	37·6	34·5	46·0	49·0	68·0	65·0	*S*	63·0	56·8	42·0	45·0
2	42·9	35·2	34·4	Good Friday.	*S*	68·7	62·8	64·6	61·2	59·0	45·8	48·0
3	*S*	37·9	34·7	48·5	49·3	70·4	62·2	68·4	66·0	*S*	44·8	43·5
4	38·6	45·0	35·0	*S*	48·6	68·0	*S*	66·9	65·0	59·5	48·0	48·0
5	34·7	42·6	35·9	44·6	49·9	64·1	62·7	68·4	*S*	56·5	48·5	*S*
6	33·0	43·0	36·2	43·2	52·3	*S*	62·7	65·7	59·0	53·0	46·7	39·7
7	34·7	*S*	*S*	43·8	50·8	63·4	61·0	66·4	61·0	56·0	*S*	37·8
8	42·2	37·2	36·2	47·2	51·2	66·0	61·3	*S*	63·0	52·5	45·8	40·5
9	45·8	36·0	35·5	42·8	*S*	69·4	60·8	66·6	61·0	56·3	45·7	41·0
10	*S*	36·6	36·4	44·0	54·6	66·4	58·0	67·9	63·5	*S*	40·6	40·0
11	47·2	35·0	35·0	*S*	54·0	68·3	*S*	69·1	64·5	51·7	42·7	38·4
12	39·1	38·4	34·4	43·8	51·3	69·2	65·0	72·3	*S*	49·7	41·4	*S*
13	42·7	41·7	41·2	43·4	52·8	*S*	65·4	69·9	65·0	56·0	40·2	42·0
14	38·0	*S*	*S*	45·0	53·7	72·3	66·4	68·4	66·0	58·0	*S*	41·8
15	37·8	39·0	42·8	51·0	53·7	75·0	72·1	*S*	65·7	58·5	42·0	40·5
16	42·0	39·0	46·4	55·2	*S*	76·5	69·0	66·8	65·6	56·4	40·9	40·0
17	*S*	38·3	46·2	52·0	55·1	73·3	67·0	68·4	65·0	*S*	41·5	38·5
18	39·1	36·5	46·9	*S*	56·0	66·0	*S*	69·0	63·2	52·3	39·8	44·8
19	41·0	35·3	46·9	51·8	55·7	67·0	67·0	68·8	*S*	54·2	36·5	*S*
20	44·8	35·2	48·8	54·0	56·2	*S*	66·2	65·2	60·8	56·3	37·0	42·5
21	38·7	*S*	*S*	54·0	59·4	67·8	65·4	61·6	60·8	54·3	*S*	45·0
22	38·7	36·0	45·2	56·8	58·2	70·5	66·0	*S*	62·8	54·8	37·3	46·0
23	36·3	36·3	45·8	56·6	*S*	71·4	67·4	65·0	63·7	53·0	34·0	46·0
24	*S*	38·1	60·2	56·2	54·8	68·0	66·3	65·0	61·2	*S*	34·0	44·0
25	35·7	35·5	47·0	*S*	53·7	66·8	*S*	64·6	57·5	53·7	39·8	Christ. Day
26	34·0	34·8	44·0	52·6	54·7	70·0	64·4	61·3	*S*	53·5	48·0	*S*
27	36·3	36·3	44·2	50·3	55·4	*S*	65·0	62·5	60·8	52·0	47·0	42·0
28	36·3	*S*	*S*	53·2	57·0	65·0	63·0	60·7	60·0	52·0	*S*	43·0
29	41·0		48·0	51·9	59·0	65·7	62·0	*S*	61·5	47·0	49·0	40·8
30	46·0		48·8	51·2	*S*	67·6	62·9	61·4	63·0	46·0	46·4	40·4
31	*S*		50·0		65·7		63·5	60·8		*S*		42·3
Means.	39·6	37·8	42·2	49·6	54·3	68·6	64·5	66·0	62·7	54·2	42·2	42·4

(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, 1858.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	42·8	34·5	32·4	43·4	49·9	82·2	64·8	*S*	67·0	62·5	38·5	45·5
2	43·7	34·2	32·1	Good Friday.	*S*	80·0	62·4	71·9	67·7	65·3	48·6	50·5
3	*S*	40·1	32·5	56·5	55·6	82·0	63·0	76·3	72·8	*S*	50·7	48·0
4	36·0	46·7	40·0	*S*	51·0	76·1	*S*	94·1	66·0	63·0	50·0	51·4
5	29·4	48·2	36·8	48·0	58·9	65·7	61·0	95·7	*S*	60·0	49·6	*S*
6	27·6	43·5	35·2	43·0	59·7	*S*	66·2	69·8	62·5	56·0	47·9	34·8
7	35·0	*S*	*S*	43·6	57·0	69·0	60·4	74·0	64·6	59·8	*S*	34·0
8	47·7	37·8	36·6	54·5	60·0	76·2	67·7	*S*	61·0	54·7	46·6	37·6
9	49·0	35·6	37·0	41·5	*S*	79·3	65·0	75·7	68·8	58·3	48·0	39·0
10	*S*	38·0	40·0	46·8	65·6	69·0	63·6	78·6	67·8	*S*	37·6	36·8
11	47·3	35·8	41·0	*S*	60·7	76·5	*S*	76·7	69·7	52·9	47·0	36·0
12	41·0	40·9	37·3	44·7	51·0	77·0	73·8	84·0	*S*	56·7	44·0	*S*
13	43·9	42·8	47·5	46·8	59·8	*S*	68·8	77·8	77·2	61·0	42·8	44·5
14	39·9	*S*	*S*	54·2	59·4	84·6	73·0	75·0	77·5	61·8	*S*	38·5
15	36·9	39·8	49·0	65·0	56·0	88·5	84·0	*S*	73·2	59·8	40·4	39·0

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

Day of the Month, 1858.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
16	45·9	41·0	56·0	71·3	*S*	91·1	70·8	70·9	73·8	57·0	38·0	37·8
17	*S*	41·8	50·3	54·8	56·8	74·4	73·3	80·0	70·4	*S*	40·5	37·8
18	39·8	36·5	52·3	*S*	58·8	66·0	*S*	75·0	66·8	50·0	40·8	47·0
19	43·9	36·7	54·4	64·3	61·3	74·0	64·7	76·6	*S*	54·5	30·9	*S*
20	48·4	38·0	57·8	66·2	66·8	*S*	73·2	63·9	63·0	57·8	37·5	45·3
21	38·2	*S*	*S*	68·2	67·5	75·0	63·9	59·7	62·0	58·8	*S*	50·0
22	38·6	38·7	56·0	71·0	63·0	81·5	69·3	*S*	68·8	58·0	41·2	48·5
23	36·0	36·9	53·7	68·9	*S*	82·0	73·4	74·8	68·2	56·2	31·8	47·5
24	*S*	42·2	63·9	65·0	59·8	70·0	69·3	73·0	64·8	*S*	30·4	47·5
25	40·3	39·0	49·7	*S*	53·7	71·2	*S*	68·0	65·6	54·8	45·0	Christ. Day.
26	31·4	37·0	50·0	53·2	59·6	80·8	69·0	63·6	*S*	55·0	54·8	*S*
27	41·4	41·0	48·7	49·9	59·5	*S*	70·0	61·4	63·5	56·3	49·2	43·0
28	44·8	*S*	*S*	60·8	60·9	71·0	63·8	63·8	60·2	52·1	*S*	43·5
29	47·0		59·0	55·8	70·2	68·9	67·4	*S*	67·7	46·8	52·8	42·8
30	50·3		56·4	51·8	*S*	73·5	71·7	65·4	66·4	50·8	45·9	41·3
31	*S*		53·5		78·3		72·0	66·5		*S*		42·7
Means.	41·0	39·4	46·6	55·6	60·0	76·4	68·3	73·5	67·6	56·9	43·0	42·7

WEEKLY MEANS of READINGS of THERMOMETERS.

1858. Period.				Thermometers sunk in the ground. Bulb 24 French Feet deep.	Bulb 12 French Feet deep.	Bulb 6 French Feet deep.	Bulb 3 French Feet deep.	Bulb 1 Inch deep.	Thermometer inclosed in the box which covers the scales of the deep-sunk Thermometers, and placed on a level with their scales.
	d		d	°	°	°	°	°	°
January	1	to	7	52·14	51·49	49·18	44·15	37·5	35·7
	8	to	14	52·07	51·04	47·88	42·87	42·5	44·8
	15	to	21	51·95	50·46	47·18	42·20	40·6	42·2
	22	to	28	51·79	49·83	46·28	40·64	36·2	38·7
	29	to February	4	51·67	49·27	45·27	40·16	40·4	42·0
February	5	to	11	51·51	48·64	44·97	40·43	38·4	39·8
	12	to	18	51·35	48·11	44·31	39·71	38·8	40·5
	19	to	25	51·16	47·61	43·85	39·16	36·1	38·6
	26	to March	4	50·93	47·12	. .	...	34·9	35·8
March	5	to	11	50·72	46·59	...	...	35·9	37·8
	12	to	18	50·55	46·15	...	...	42·9	48·7
	19	to	25	50·33	45·73	...	42·54	49·0	55·9
	26	to April	1	50·09	45·60	44·46	44·12	46·8	51·8
April	2	to	8	49·85	45·72	45·41	44·40	45·5	49·1
	9	to	15	49·64	45·90	45·51	43·90	45·0	49·8
	16	to	22	49·46	46·07	46·02	46·58	54·0	66·0
	23	to	29	49·26	46·23	47·63	49·58	53·5	58·9
	30	to May	6	49·10	46·66	48·72	49·40	50·0	54·5
May	7	to	13	48·98	47·11	49·05	49·85	52·4	59·0
	14	to	20	48·87	47·47	49·69	50·87	55·1	69·8
	21	to	27	48·85	47·86	50·59	52·62	56·0	60·5
	28	to June	3	48·82	48·34	51·61	54·99	64·8	75·6
June	4	to	10	48·81	48·87	53·70	59·24	66·2	72·5
	11	to	17	48·83	49·68	55·80	62·38	72·4	82·0
	18	to	24	48·85	50·59	57·73	63·82	68·4	74·7
	25	to July	1	48·94	51·57	58·79	64·12	66·7	71·7
July	2	to	8	49·02	52·39	59·19	62·61	62·1	63·4
	9	to	15	49·19	53·13	58·82	61·25	64·6	71·4
	16	to	22	49·35	53·56	59·18	63·46	66·8	69·2
	23	to	29	49·57	53·98	59·89	63·44	64·7	68·8
	30	to August	5	49·78	54·48	59·99	62·89	65·8	80·3
August	6	to	12	50·01	54·87	60·32	63·97	68·0	76·5
	13	to	19	50·23	55·24	60·98	64·94	68·5	75·9
	20	to	26	50·44	55·58	61·15	63·94	63·8	67·2
	27	to September	2	50·62	55·90	60·76	62·26	61·6	65·3
September	3	to	9	50·84	56·13	60·24	61·37	62·5	65·9
	10	to	16	51·08	56·24	59·94	61·56	65·0	73·2
	17	to	23	51·26	56·22	60·04	61·64	62·7	66·5
	24	to	30	51·46	56·32	59·71	60·43	60·7	64·7
October	1	to	7	51·74	56·32	59·17	59·29	56·8	61·1
	8	to	14	51·83	56·23	58·23	56·52	54·0	57·6
	15	to	21	51·90	56·03	57·17	55·98	55·3	56·3
	22	to	28	52·09	55·72	56·55	55·17	53·2	55·4
	29	to November	4	52·17	55·37	55·53	52·29	45·6	47·6
November	5	to	11	52·23	54·94	53·92	49·92	45·0	46·1
	12	to	18	52·26	54·30	52·26	47·16	44·3	44·4
	19	to	25	52·31	53·58	50·53	44·38	36·4	36·1
	26	to December	2	52·34	52·85	49·15	44·72	47·2	49·8
December	3	to	9	52·32	52·07	49·11	45·55	41·7	40·8
	10	to	16	52·27	51·50	48·57	44·13	40·4	38·8
	17	to	23	52·22	51·03	47·97	44·17	43·8	46·0
	24	to	31	52·08	50·40	47·65	44·06	42·1	43·5

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.

1857. Dec. 31. 12. The direction of the wind was S.E.
1858. Jan. 31. 12. ,, ,, W., which implies a direct motion of 135°.
Therefore the whole excess of direct motion in the month of January was 135°.

1858. Jan. 31. 12. The direction of the wind was W.
Feb. 28. 12. ,, ,, E.N.E., which implies a direct motion of $157\frac{1}{2}$°.
On Feb. 27. 22, the trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
Therefore the whole excess of retrograde motion in the month of February was $202\frac{1}{2}$°.

1858. Feb. 28. 12, the direction of the wind was E.N.E.
March 31. 12. ,, ,, S.W., which implies a retrograde motion of $202\frac{1}{2}$°.
On March 19. 22, $23^{d}.\ 22^{h}$, $25^{d}.\ 22^{h}$, $27^{d}.\ 22^{h}$, the trace was shifted to the next set of lines downwards, implying direct motion of 1440°.
Therefore the whole excess of direct motion in the month of March was $1237\frac{1}{2}$°.

1858. March 31. 12. The direction of the wind was S.W.
April 30. 12. ,, ,, S.S.W., which implies a retrograde motion of $22\frac{1}{2}$°.
On April 7. 22, the trace was shifted to the second set of lines downwards; and on April $20^{d}.\ 22^{h}$, $23^{d}.\ 22^{h}$, $25^{d}.\ 6\frac{1}{2}^{h}$, $27^{d}.\ 22^{h}$, the trace was shifted to the next set of lines downwards, implying direct motion of 2160°.
Therefore the whole excess of direct motion in the month of April was $2137\frac{1}{2}$°.

1858. April 30. 12. The direction of the wind was S.S.W.
May 31. 12. ,, ,, S.S.W., which implies a retrograde motion of 360°.
Therefore the whole excess of retrograde motion in the month of May was 360°.

1858. May 31. 12. The direction of the wind was S.S.W.
June 30. 12. ,, ,, N.N.W., which implies a direct motion of 135°.
On June 2. 22, $8^{d}.\ 22^{h}$, $16^{d}.\ 22^{h}$, $22^{d}.\ 22^{h}$, the trace was shifted to the second set of lines downwards; and on June $11^{d}.\ 22^{h}$, $15^{d}.\ 22^{h}$, $18^{d}.\ 22^{h}$, $21^{d}.\ 22^{h}$, $24^{d}.\ 21\frac{1}{2}^{h}$, to the next set of lines downwards; on June $5^{d}.\ 22^{h}$, to the second set of lines upwards; and on $10^{d}.\ 22^{h}$, to the next set of lines upwards.
Therefore the whole excess of direct motion in the month of June was 3735°.

1858. June 30. 12. The direction of the wind was N.N.W.
July 31. 12. ,, ,, E.S.E., which implies a direct motion of 135°.
On July 6. 22, $8^{d}.\ 8\frac{1}{4}^{h}$, $17^{d}.\ 22^{h}$, $27^{d}.\ 22^{h}$, $28^{d}.\ 2\frac{3}{4}^{h}$, the trace was shifted to the next set of lines upwards; and on $30^{d}.\ 22^{h}$, to the second set of lines upwards; on $7^{d}.\ 2\frac{3}{4}^{h}$, $7^{d}.\ 8\frac{1}{2}^{h}$, $15^{d}.\ 21^{h}$, $18^{d}.\ 0^{h}$, $19^{d}.\ 22^{h}$, to the next set of lines downwards.
Therefore the whole excess of retrograde motion in the month of July was 585°.

1858. July 31. 12. The direction of the wind was E.S.E.
Aug. 31. 12. ,, ,, S.W., which implies a retrograde motion of $247\frac{1}{2}$°.
On Aug. 1. 22, $12^{d}.\ 22^{h}$, the trace was shifted to the second set of lines downwards; on $18^{d}.\ 2^{h}$, to the next set of lines downwards; on $8^{d}.\ 22^{h}$, $17^{d}.\ 1^{h}$, $22^{d}.\ 22^{h}$, to the next set of lines upwards.
Therefore the whole excess of direct motion in the month of August was $472\frac{1}{2}$°.

1858. Aug. 31d. 12h. The direction of the wind was S.W.
Sept. 30. 12. ,, ,, W., which implies a direct motion of 45°.
On Sept. 8. 22, 17d. 22h, 28d. 22h, the trace was shifted to the next set of lines downwards; on 12d. 22h, 18d. 22h, to the next set of lines upwards.
Therefore the whole excess of direct motion in the month of September was 405°.

1858. Sept. 30d. 12h. The direction of the wind was W.
Oct. 31. 12. ,, ,, N.E., which implies a direct motion of 135°.
On Oct. 18. 22, 25d. 22h, the trace was shifted to the next set of lines downwards; on 23d. 22h, 26d. 22h, to the next set of lines upwards.
Therefore the whole excess of direct motion in the month of October was 135°.

1858. Oct. 31d. 12h. The direction of the wind was N.E.
Nov. 30. 12. ,, ,, W.S.W., which implies a retrograde motion of 157½°.
On Nov. 0. 22, 2d. 22h, 3d. 22h, 9d. 22h, 25d. 22h, the trace was shifted to the next set of lines downwards; on 5d. 22h, 16d. 22h, to the next set of lines upwards.
Therefore the whole excess of direct motion in the month of November was 922½°.

1858. Nov. 30d. 12h. The direction of the wind was W.S.W.
Dec. 31. 12. ,, ,, S., which implies a retrograde motion of 67½°.
On Dec. 10. 22, 14d. 22h, the trace was shifted to the next set of lines downwards.
Therefore the whole excess of direct motion in the month of December was 652½°.

The whole excess of direct motion to the end of the year was 8685°.

The revolution-counter which is attached to the vertical spindle of the vane, whose readings increase with change of direction of the wind in the order N., E., S., W., &c., or in direct motion, and decrease with change of direction in the order N., W., S., E., &c., or in retrograde motion, gave the following readings:—

	rev.
On 1858, January 1	3·8
December 31	27·8

Implying an excess of direct motion, during the year, of 24 revolutions, or 8640°.

AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1858.

1858, MONTH.	Monthly Amount of Rain collected in each Gauge.			
	Osler's Anemometer Gauge.	On the Roof of the Library.	Crosley's.	Cylinder partly sunk in the Ground.
	in.	in.	in.	in.
January - -	0·3	0·6	0·7	0·8
February - -	1·5	1·7	1·7	1·7
March - -	0·2	0·4	0·7	0·8
April - -	1·2	2·3	1·9	2·3
May - - -	0·6	1·7	1·6	2·0
June - - -	1·2	1·5	1·2	1·2
July - - -	1·9	2·8	2·7	3·0
August - -	0·2	1·5	1·5	1·5
September - -	0·6	0·6	0·9	0·9
October - -	0·7	1·0	1·2	1·4
November - -	0·4	0·4	0·5	0·5
December - -	1·1	1·2	1·5	1·7
Sums - -	9·9	15·7	16·1	17·8

The heights of the receiving surfaces are as follows:

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