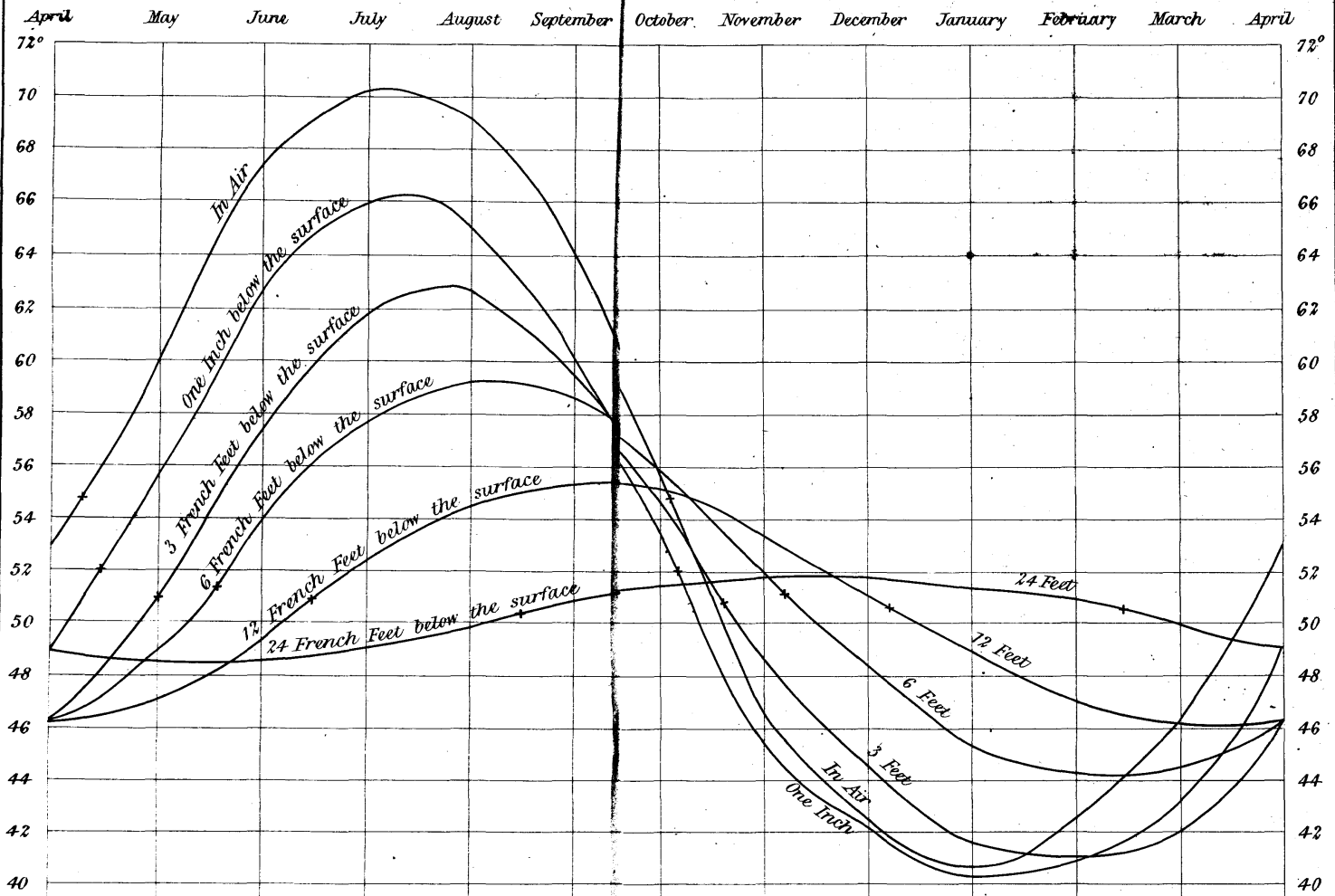


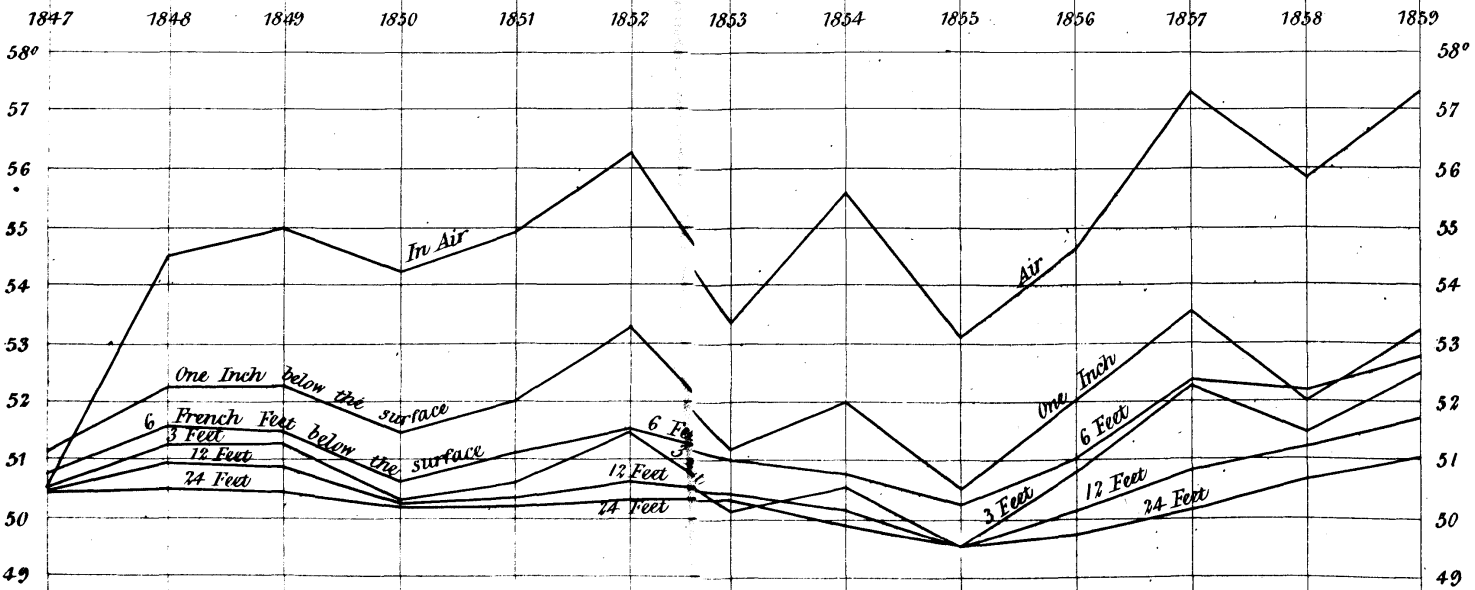
GREENWICH OBSERVATIONS 860, METEOROLOGICAL RESULTS.

MONTHLY TEMPERATURES OF THE DEEP-SUNK THERMOMETER FROM THE MEAN OF OBSERVATIONS EXTENDING FROM 1847 TO 1859.

(The crosses indicate the points corresponding to the mean annual temperature for each thermometer.)



MEAN ANNUAL TEMPERATURES OF THE DEEP SUNK THERMOMETERS.



R E S U L T S

OF THE

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS

MADE AT

THE ROYAL OBSERVATORY, GREENWICH,

1860.

(EXTRACTED FROM THE GREENWICH OBSERVATIONS, 1860.)



ROYAL OBSERVATORY, GREENWICH.

R E S U L T S

OF

MAGNETICAL AND METEOROLOGICAL
OBSERVATIONS.

1860.

ROYAL OBSERVATORY, GREENWICH.

INDICATIONS

OF

MAGNETOMETERS.

1860.

The establishment of Assistants in the Magnetical and Meteorological Department of the Royal Observatory consisted during the year 1860, of Mr. James Glaisher, the Superintendent, 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 1860, 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 Horizontal Circle of the Theodolite by which the DECLINATION MAGNET is observed, corresponding to the Astronomical Meridian, on February 3, 16, 25, March 14, May 2, June 7, August 4, 7, September 1, October 27, November 15, and December 5.

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 1859, December 29, and 1860, January 12, 23, and 24.

Observations of the Angle of Torsion of the HORIZONTAL FORCE MAGNETOMETER were made on 1860, January 2, 3, and 4. The angle determined was $43^{\circ}.15'$. Observations were made for the times of vibration and readings of the scale for different readings of the torsion-circle on the same days, and the general conclusion was, that the scale-readings and the times of vibration, had nearly the same value when the reading of the torsion-circle was $144^{\circ}.0'$ (marked end West); and $230^{\circ}.30'$ (marked end East). The reading adopted for the adjustment of the torsion-circle throughout the year (marked end West) was $143^{\circ}.0'$.

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 $0.0000809 \times (t-32) + 0.00000762 (t-32)^2$, where t is the temperature in degrees of Fahrenheit's scale. This formula, which represents the mean of the results deduced from temperature-experiments made with each end of the magnet alternately near the measuring apparatus, is preferable to that given in the volumes before 1850, which were based on experiments made in one position of the magnet. The correction for temperature is *not* applied to any of the results of observations.

Observations of the times of vibration of the VERTICAL FORCE MAGNETOMETER have usually been made three or four times a week. The adopted time of vibration for the year was $15^{\text{m}}.72$.

Observations for the time of vibration in a horizontal plane were made in 1859, April 19, when the time of vibration was found to be $24^{\text{m}}.258$ from 700 vibrations.

The value of the disturbing force, in terms of the whole vertical force, for one division of the scale, is inferred to be 0.001498 for the year : and this number has been used throughout the year.

The correction for temperature is $0.00013845 \times (t-32) + 0.000004054 + (t-32)^2$. This formula, like that for the Horizontal Force Magnetometer, is deduced from temperature-experiments made in both positions of the magnet. The correction 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 abscissa ; 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.		
h m o / "		Jan. 6 h m		h m		h m o o			h m o / "		Jan. 9 h m		h m		h m o o				
		12. 2	·0876								0. 0	·0895	0. 0	·02600	1. 0	44. 8	46. 0		
		12. 30	·0896								0. 36	·0892	2. 10	·02538	3. 0	46. 0	47. 3		
		12. 56	·0891								0. 56	·0896	6. 28	{·02190	9. 0	48. 0	48. 5		
		13. 14	·0895								1. 32	·0891		{·02223	21. 0	42. 0	44. 7		
			***								1. 53	·0892	13. 38:	·02262					
		14. 17	·0896								2. 20	·0890	21. 42	·02628					
		14. 46	·0893								2. 37	·0891	23. 59	·02687					
		15. 45	·0896								3. 42	·0885							
		16. 5	·0894									***							
		16. 43	·0898								7. 30	·0898							
		17. 20	·0896									***							
		18. 6	·0899								11. 17	·0897							
		19. 30	·0899								11. 39	·0904							
		20. 18	·0897								12. 8	·0897							
		21. 35	·0880								12. 25	·0897							
		21. 50	·0882								12. 39	·0901							
		22. 34	·0878								13. 12	·0900							
			***								16. 52	·0912							
		23. 59	·0879								20. 30	·0909							
											21. 41	·0896							

											23. 59	·0893							
		Jan. 7 o. o	·0879	Jan. 7	(†)	Jan. 7	1. 0	44. 0	45. 4		Jan. 10 o. o	·0893	Jan. 10	o. o	·02687	Jan. 10	1. 0	45. 0	47. 0
		0. 32	·0884	0. 57	·02770	3. 0	47. 0	48. 0			1. 45	·0890	1. 27	·02637	3. 0	48. 0	49. 0		
		1. 45	·0883	2. 4	·02750	9. 0	46. 6	48. 0			3. 30	·0883	5. 0	·02216	9. 0	48. 2	50. 5		
			***	9. 12:	·02186	22. 45	46. 0	47. 6				***	11. 53	·02290	21. 0	44. 0	46. 0		
		2. 36	·0876	16. 47	·02451						4. 56	·0891	17. 37	·02448					
		3. 3	·0876	23. 59	·02769						6. 17	·0896	22. 6	·02664					
		3. 29	·0887								6. 53	·0892	23. 59	·02685					
		3. 33	·0885								8. 45	·0897							
		3. 47	·0886								10. 0	·0896							
		4. 0	·0884								11. 46	·0903							
		6. 54	·0897									***							
		17. 38	·0911								14. 12	·0906							
		20. 20	·0908								14. 18	·0915							
		21. 3	·0904								14. 36	·0912							
		21. 48	·0895									***							
		22. 15	·0894								16. 33	·0921							
		23. 2	·0883								16. 54	·0919							
		23. 59	·0884								17. 38	·0941							

		Jan. 8 o. o	·0884	Jan. 8	·02769	Jan. 8	7. 0	47. 0	48. 5		18. 50	·0919							
		2. 16	·0895	7. 10	·02405	21. 0	42. 0	45. 0			19. 0	·0920							
		3. 15	·0894	13. 11:	·02230						19. 11	·0915							
		6. 36	·0900	21. 44	·02503						19. 22	·0916							
		8. 33	·0900	23. 59	·02600						19. 33	·0914							
		9. 49	·0898								19. 56	·0918							
		12. 50	·0901									***							
		15. 21	·0907								20. 33	·0914							
		19. 15	·0913								20. 45	·0907							
		20. 25	·0912									***							
		21. 10	·0909								22. 3	·0899							
		21. 43	·0899									***							
		23. 32	·0893								23. 20	·0884							
		23. 59	·0895								23. 46	·0887							
												(†)							

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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Jan. 13 20. 45 21. 6 23. 59	21. 15. 0 13. 30 18. 15	Jan. 13 22. 18 23. 59	.0883 *** .0880								Jan. 15 22. 38 23. 59	.0884 *** .0884					
Jan. 14 0. 0 1. 0 3. 0 9. 6 23. 0	21. 18. 15 21. 30* 17. 18* 11. 27* 17. 4*	Jan. 14 0. 0 1. 33 2. 4 3. 17 3. 34 4. 18 5. 19 7. 34 10. 55 11. 25 11. 38 12. 27 18. 46 22. 25 23. 3 23. 59	.0880 .0878 .0874 .0881 .0877 .0880 .0885 .0882 .0888 .0897 .0893 .0891 .0900 .0887 .0887 .0871	Jan. 14 0. 0 3. 29 6. 19 12. 22 23. 59	.02748 .02559 .02216 .02230 .02760	Jan. 14 1. 0 3. 0 9. 6 23. 0	50.0 52.5 53.0 49.0	51.0 52.7 53.2 50.0	Jan. 16 0. 54 1. 37 2. 13 2. 22 2. 30 2. 42 2. 57 3. 51 4. 43 4. 50 5. 44 6. 5 6. 19 6. 31 6. 56 7. 13 7. 34 7. 43 8. 0 8. 11 8. 30 8. 44 9. 9 9. 47 12. 0 14. 15 14. 36 16. 22 17. 14 18. 45 19. 59 20. 11 20. 30 20. 54 21. 15 23. 44 23. 54 23. 59	(†) 21. 22. 10 21. 30 23. 55 21. 0 22. 10 21. 30 25. 10 17. 20 20. 40 20. 10 26. 0 24. 30 19. 15 22. 50 16. 0 20. 10 17. 30 19. 20 9. 30 14. 0 10. 0 15. 0 9. 0 13. 0 (†) 14. 30 18. 10 17. 20 17. 5 18. 0 15. 10 14. 55 16. 0 14. 0 15. 30 13. 15 19. 45 21. 10 21. 0 17. 36 17. 43 20. 10 23. 59	Jan. 16 0. 0 0. 27 1. 30 2. 7 2. 25 2. 36 2. 54 3. 3 3. 17 3. 46 4. 28 4. 45 5. 6 5. 37 5. 45 5. 51 6. 4 6. 20 6. 40 7. 6 7. 19 7. 33 7. 45 7. 57 8. 15 8. 25 8. 46 9. 21 9. 38 9. 47 10. 3 13. 12 13. 27 13. 52 14. 3 14. 47 15. 2 15. 13 17. 36 17. 43 20. 10 23. 59	.0884 *** .0881 .0870 .0875 .0864 .0868 .0859 .0862 .0851 .0868 .0874 .0871 .0875 .0874 .0865 .0866 .0856 .0863 .0853 *** .0874 .0869 .0871 .0866 .0895 .0881 .0895 .0867 .0884 .0878 .0881 .0877 *** .0891 .0889 .0896 .0891 .0894 .0900 .0896 *** .0907 .0903 .0905 *** .0875	Jan. 16 0. 0 1. 59 5. 51 8. 48 12. 22 20. 39 22. 16 23. 59	.03009 .03000 .02509 .02338 .02512 .03149 .03240 .03069	Jan. 16 1. 0 3. 0 9. 0 21. 0	50.0 53.0 52.0 44.3	51.0 53.0 51.5 45.2
Jan. 15 9. 0 21. 0	21. 13. 48* 18. 16*	Jan. 15 0. 0 0. 25 0. 48 1. 40 2. 45 5. 12 9. 6 9. 18 9. 33 10. 17 11. 49 12. 7 12. 38 12. 46 13. 20 13. 32 13. 36 13. 50 14. 17 14. 42 15. 10 15. 32 15. 47 16. 46 19. 15 20. 13 20. 35 21. 9	.0871 .0876 .0872 .0875 .0872 .0891 *** .0897 .0914 .0908 .0896 *** .0898 .0903 *** .0897 .0903 *** .0903 .0897 .0899 .0886 .0904 .0893 .0887 .0892 .0905 *** .0894 *** .0906 *** .0906 .0899 .0899 ***	Jan. 15 0. 0 3. 10 8. 59 11. 43 15. 9 19. 54 21. 37 23. 59	.02760 .02872 .02765 .02656 .02613 .02842 .02996 .03009	Jan. 15 9. 0 21. 0	52.0 49.0	53.0 50.0	Jan. 17 0. 0 0. 15 0. 25	21. 21. 0 20. 40 21. 35	Jan. 17 0. 0 1. 57 4. 15	.0875 *** .0880 ***	Jan. 17 0. 0 1. 57 8. 48	.03069 .02991 .02622	Jan. 17 1. 0 3. 0 9. 0	47.5 49.7 48.3	47.8 49.8 49.0

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Jan. 17 0. 54 1. 12 1. 56 2. 28 2. 40 3. 15 4. 14 4. 39 5. 28 6. 43 10. 4 13. 15 13. 45 15. 47 17. 3 18. 0 18. 45 20. 38 21. 10 22. 39 22. 44 23. 6 23. 59	21. 21. 20 23. 0 20. 40 20. 0 20. 20 18. 40 17. 15 17. 30 19. 15 19. 20 17. 35 19. 40 19. 0 20. 50 20. 30 21. 0 19. 15 17. 0 13. 40 18. 30 18. 0 19. 10 19. 55	Jan. 17 9. 53 10. 53 11. 40 13. 52 19. 25 20. 43 21. 36 22. 32 22. 56 23. 59	0900 *** 0897 0901 0902 *** 0913 0910 0897 0888 0884 *** 0888	Jan. 17 19. 14 23. 59	03170 03128	Jan. 17 21. 9	40. 0 42. 0		Jan. 19 0. 33 0. 52 1. 44 1. 53 2. 7 3. 8 5. 29 6. 49 8. 57 9. 40 10. 43 11. 25 12. 14 12. 38 14. 27 15. 54 16. 30 17. 7 17. 15 17. 39 18. 7 18. 25 18. 43 18. 54 20. 51 21. 0 22. 26 22. 59 23. 15 23. 59	21. 16. 10 15. 0 15. 10 14. 30 15. 0 13. 30 11. 55 13. 30 13. 0 13. 45 13. 20 9. 40 13. 0 12. 30 14. 0 12. 20 12. 0 13. 20 12. 0 11. 30 12. 0 12. 15 11. 30 11. 30 10. 10 12. 30 14. 40 17. 30 16. 50 17. 30	Jan. 19 2. 21 6. 32 8. 43 9. 56 10. 25 10. 48 11. 15 12. 2 12. 20 12. 33 12. 47 13. 7 15. 2 16. 19 16. 45 17. 0 17. 7 17. 39 20. 55 22. 21 23. 59	0885 *** 0884 0896 0892 0897 0897 0904 0899 0903 0896 0906 0902 *** 0904 0908 *** 0907 0910 0906 0912 *** 0907 *** 0894 *** 0887	Jan. 19 11. 25 22. 30 23. 59	02258 03016 03050	Jan. 19 3. 0 9. 0 21. 0	52. 5 51. 8 46. 0 52. 9 52. 0 47. 0	
Jan. 18 0. 0 0. 25 0. 40 0. 52 1. 9 2. 0 3. 42 6. 14 6. 43 6. 55 8. 22 9. 10 9. 49 10. 45 11. 18 13. 0 15. 22 17. 11 17. 23 17. 39 18. 45 20. 5 20. 53 21. 39 21. 44 22. 57	21. 19. 55 20. 30 17. 0 18. 0 17. 30 18. 0 14. 40 14. 25 16. 20 15. 40 16. 15 14. 30 16. 30 15. 40 16. 30 16. 30 14. 10 13. 30 13. 50 13. 0 13. 45 12. 35 16. 30 15. 0 16. 5 17. 30 (+)	Jan. 18 0. 0 0. 12 2. 7 3. 39 5. 5 12. 50 14. 39 18. 4 19. 32 22. 4 23. 15 23. 59	0888 0891 *** 0895 0884 0897 *** 0906 0907 *** 0913 0912 0887 *** 0889 0877	Jan. 18 0. 0 1. 23 7. 47 17. 11 21. 54 23. 59	03128 03098 02729 02710 02678 02616	Jan. 18 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 18. 0 21. 0	41. 2 42. 1 44. 0 46. 1 45. 6 45. 0 44. 8 45. 8 42. 2 43. 0 45. 2 46. 2 46. 1 45. 9 46. 5 47. 0		Jan. 20 0. 0 0. 28 0. 45 0. 51 1. 11 1. 41 2. 11 2. 23 2. 53 3. 28 3. 39 4. 15 4. 36 5. 12 5. 59 6. 45 7. 30 8. 13 8. 30 8. 51 9. 12 9. 37 10. 7 10. 44	21. 17. 30 19. 30 17. 30 18. 0 16. 20 20. 40 18. 10 20. 25 20. 45 19. 20 20. 20 18. 30 20. 0 20. 15 15. 0 18. 0 10. 0 22. 0 12. 0 13. 15 11. 0 13. 20 13. 10	Jan. 20 0. 0 2. 57 5. 28 7. 51 8. 17 8. 40 13. 11 14. 39 17. 43 22. 43 23. 59	03050 02908 02551 02350 02357 02300 02231 02253 02488 03038 03077	Jan. 20 1. 0 3. 0 9. 0 21. 0	48. 9 51. 0 52. 6 45. 0 48. 8 51. 3 52. 6 46. 3			
Jan. 19 0. 14	(+) 21. 15. 30	Jan. 19 0. 0	0877 ***	Jan. 19 0. 0 3. 30	02616 02185	Jan. 19 0. 0 1. 0	48. 0 50. 0 49. 0 51. 0		Jan. 19 10. 7 10. 44	13. 20 13. 10	Jan. 19 7. 25 7. 55	0886 *** 0886					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (+) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Jan. 20 h m 11. 11	21. 12. 0	Jan. 20 h m 8. 18	.0923						Jan. 21 h m 14. 30	21. 7. 30	Jan. 21 h m 8. 0	.0908					
11. 28	9. 0	8. 36	.0876						14. 53	10. 20	(†)	.0880					
12. 12	4. 55	9. 0	.0891						15. 6	10. 15	8. 10	.0885					
12. 22	5. 30	9. 12	.0884						15. 25	13. 2	8. 20	.0885					
12. 30	4. 30	***	***							***	(†)	(†)					
12. 45	4. 45	10. 3	.0895						16. 45	14. 0	8. 36	.0879					
	(†)	10. 47	.0892						17. 12	12. 40	8. 45	.0887					
13. 57	14. 20	11. 1	.0897						17. 19	13. 45	8. 57	.0882					
14. 13	12. 30	***	***						17. 43	13. 30	9. 22	.0898					
14. 28	14. 30	11. 42	.0890						17. 57	14. 0	9. 45	.0902					
14. 57	9. 0	***	***						18 51	22. 0	***	***					
15. 14	11. 0	12. 12	.0893						19. 13	17. 45	11. 27	.0901					
15. 29	9. 30	***	***						19. 52	13. 50	11. 41	.0905					
15. 41	12. 20	12. 45	.0883						20. 29	17. 55	11. 48	.0901					
17. 24	16. 30	13. 6	.0886						21. 1	16. 15	12. 3	.0906					
17. 50	15. 50	13. 37	.0886						22. 12	22. 40	12. 25	.0900					
18. 9	17. 20	13. 48	.0882						22. 26	19. 0	12. 32	.0903					
18. 25	16. 20	14. 15	.0903						22. 44	18. 0	12. 44	.0901					
18. 42	16. 45	14. 26	.0904							(†)	12. 50	.0907					
19. 0	16. 0	***	***						23. 45	22. 10	13. 2	.0906					
19. 30	16. 0	14. 50	.0896						23. 59	20. 0	13. 10	.0920					
21. 9	13. 30	***	***								13. 17	.0925					
	***	16. 44	.0899								13. 42	.0908					
23. 27	16. 30	***	***									***					
23. 44	18. 30	18. 53	.0909								14. 50	.0913					
23. 59	17. 35	***	***								14. 56	.0910					
		20. 35	.0906								15. 15	.0909					
		***	***								15. 33	.0902					
		22. 25	.0888									***					
		23. 32	.0887								17. 5	.0904					
		23. 45	.0892								17. 14	.0909					
		23. 59	.0887								17. 43	.0907					
			***								17. 46	.0909					
			***								18. 6	.0897					
			***								19. 1	.0905					
Jan. 21	21. 17. 35	Jan. 21	.0887	Jan. 21	0. 0	.03077	1. 0	47. 0	47. 7		20. 18	.0903					
0. 13	17. 30	0. 15	.0885	2. 29	.03158	.02882	3. 0	48. 0	48. 0		20. 56	.0888					
2. 21	21. 35	***	***	5. 45	.02882	.02850	9. 0	48. 0	48. 0		21. 34	.0886					
2. 50	18. 0	0. 38	.0889	7. 46	.02850	.02890	22. 50	44. 7			22. 10	.0890					
3. 15	20. 50	0. 47	.0885	10. 27	.02890	.03080					23. 39	.0891					
4. 13	18. 30	2. 16	.0892	13. 31	.03080	.03065					23. 59	.0893					
4. 49	21. 0	2. 37	.0885	14. 6	.03065	.03172											
5. 18	20. 45	2. 56	.0887	17. 36	.03172	.03150				Jan. 22	0. 0	.0893	Jan. 22	0. 0	.03115	6. 38	46. 0
5. 39	19. 0	3. 20	.0897	***	***	.03105				0. 8	21. 0	.0887	1. 51	.03106	21. 0	41. 0	46. 3
6. 0	19. 30	***	***	23. 25	.03105	.03115				0. 31	17. 35	.0898	7. 43	.02856			
6. 22	17. 35	4. 15	.0892	23. 59	.03115					0. 48	20. 20	.0899	12. 30	.02900			
7. 0	21. 30	(†)	***							1. 29	18. 0	.0891	20. 4	.03200			
		5. 18	.0896							1. 44	18. 30	.0903	23. 59	.03208			
9. 0	17. 42*	5. 37	.0902							2. 0	17. 50	.0908					
11. 45	14. 50	6. 0	.0898							2. 22	17. 20	.0905					
12. 19	12. 0	***	***							2. 37	18. 10	.0910					
12. 30	13. 10	6. 45	.0905							2. 53	17. 0	.0908					
12. 49	9. 0	7. 2	.0899							4. 22	16. 55	.0912					
13. 13	14. 40	7. 20	.0907							4. 40	15. 40	.0908					
13. 40	7. 30	7. 33	.0896							4. 51	15. 35	.0911					
13. 51	7. 0	7. 44	.0904							5. 49	10. 30	.0904					
14. 13	8. 30	7. 47	.0898														

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Jan. 22 6. 42 8. 5 8. 18 9. 8 10. 7 10. 45 11. 6 11. 30 17. 58 19. 43 20. 55 21. 42 22. 10 22. 41 23. 59	21. 15. 50 14. 30 15. 5 11. 30 14. 0 12. 35 12. 40 17. 25 15. 15 15. 25 13. 0 13. 30 17. 40 16. 20 19. 10	Jan. 22 10. 43 11. 0 11. 55 12. 22 13. 40 13. 51 14. 15 14. 27 18. 4 20. 36 22. 3 23. 59	.0914 *** .0900 .0911 .0899 *** .0900 .0904 .0904 .0909 *** .0913 .0904 .0886 *** .0886 .0883	h h		h h	o o	o o	Jan. 24 10. 35 11. 40 12. 30 12. 55 14. 43 14. 51 15. 28 16. 14 18. 14 19. 24 20. 58 23. 45 23. 59	21. 12. 40 13. 20 15. 20 13. 50 13. 30 14. 10 12. 20 13. 15 13. 5 14. 0 12. 45 17. 0 18. 15	Jan. 24 6. 37 7. 16 10. 52 11. 7 11. 43 11. 55 12. 33 12. 50 13. 12 14. 47 17. 56 20. 54 21. 50 23. 59	.0901 *** .0899 *** .0904 .0902 *** .0906 .0902 *** .0907 .0903 .0909 *** .0907 .0914 .0905 .0896 *** .0883	h h		h h	o o	o o
Jan. 23 0. 0 0. 13 0. 53 1. 16 1. 28 4. 30 5. 32 6. 42 7. 40 9. 0 10. 58 11. 29 11. 51 11. 59 12. 16 13. 44 14. 36 16. 44 17. 39 17. 56 18. 20 19. 29 21. 4 21. 57	21. 19. 10 19. 45 19. 5 21. 0 19. 30 15. 45 14. 15 15. 35 15. 40 15. 41* 11. 30 8. 40 10. 0 10. 0 12. 20 12. 45 15. 20 15. 20 13. 45 14. 45 14. 0 14. 55 13. 30 15. 30 (†)	Jan. 23 0. 0 0. 0 1. 2 4. 45 5. 0 5. 21 11. 23 11. 44 12. 7 12. 23 12. 38 13. 39 14. 20 20. 25 22. 15 22. 46 23. 59	.0883 *** .0878 *** .0897 .0891 .0894 *** .0901 .0907 .0899 .0899 .0896 .0904 .0900 *** .0903 .0878 *** .0874 .0881	Jan. 23 0. 0 2. 0 7. 37 13. 7 20. 10 23. 59	.03208 .03088 .02296 .02467 .02392 .02493	Jan. 23 1. 0 3. 0 9. 0 21. 0	45.0 45.3 48.5 48.4 49.0 48.7 47.0 47.3		Jan. 25 0. 0 0. 16 0. 30 0. 54 1. 8 1. 16 1. 50 1. 56 2. 8 2. 55 3. 19 3. 54 4. 11 4. 28 4. 45 4. 56 4. 59 5. 15 5. 29 5. 43 5. 49 5. 55 6. 14 6. 44 6. 49 7. 0 7. 28 7. 43 7. 51 8. 11 8. 15 8. 27 8. 38 8. 51 11. 15 12. 15	21. 18. 15 17. 20 18. 30 19. 0 21. 30 20. 40 21. 0 21. 30 21. 5 19. 35 20. 15 17. 35 18. 40 18. 30 14. 20 17. 30 17. 5 18. 50 19. 30 17. 55 18. 50 18. 30 22. 10 18. 30 18. 50 18. 0 13. 40 15. 30 16. 50 13. 0 13. 25 11. 10 12. 30 12. 45 13. 0 13. 15	Jan. 25 0. 0 1. 45 5. 52 8. 48 12. 18 21. 6 23. 37 23. 59	.0883 .0883 .0885 .0881 .0883 .0886 .0885 *** .0882 .0884 .0882 *** .0893 .0888 .0899 .0897 .0893 *** .0897 .0886 *** .0888 *** .0891 *** .0900 *** .0899 .0903 .0893 .0894 .0903 *** .0904 .0900 .0903	Jan. 25 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 18. 0 21. 0	44.8 45.7 46.0 47.0 47.8 47.8 46.0 47.0 42.5 44.4 41.0 43.7			
Jan. 24 2. 30 2. 46 4. 56 5. 10 5. 40 8. 29 8. 55 9. 26 10. 0 10. 13	(†) 21. 17. 40 18. 10 15. 0 13. 20 14. 30 13. 0 9. 30 13. 0 12. 40 13. 30	Jan. 24 0. 0 0. 26 0. 38 1. 47 2. 50 3. 5 4. 2 4. 50 5. 15 6. 25	.0881 .0885 .0880 .0881 *** .0895 .0891 .0889 .0893 .0887 *** .0897	Jan. 24 0. 0 4. 29 7. 12 7. 24 10. 57 14. 56 23. 59	.02493 .02222 .02226 .02252 .02330 .02610 .02948	Jan. 24 1. 0 3. 0 9. 0 21. 0	49.0 51.0 49.5 44.0 48.8 50.3 49.5 45.0		Jan. 24 6. 44 6. 49 7. 0 7. 28 7. 43 7. 51 8. 11 8. 15 8. 27 8. 38 8. 51 11. 15 12. 15	18. 30 18. 50 18. 0 13. 40 15. 30 16. 50 13. 0 13. 25 11. 10 12. 30 12. 45 13. 0 13. 15	Jan. 24 7. 33 7. 46 8. 15 8. 26 8. 37 8. 48 9. 37 10. 45 11. 42 12. 26	.0891 *** .0900 *** .0899 .0903 .0893 .0894 .0903 *** .0904 .0900 .0903					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol † attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Jan. 25 13. 31	21. 10. 0	Jan. 25 12. 55	0901						Jan. 26 22. 40	21. 17. 0	Jan. 27 0. 0	0892	Jan. 27 0. 0	02672	Jan. 27 1. 0	51. 0	51. 2
13. 50	11. 0	13. 26	0904						22. 51	14. 30	0. 13	***	4. 7	02240	3. 0	53. 7	53. 6
13. 58	10. 35	13. 47	0901						23. 0	16. 35	0. 25	0891	6. 48	02275	9. 0	52. 4	52. 5
14. 12	12. 30	14. 5	0901						23. 22	14. 30	0. 32	***	8. 28	02390	21. 0	42. 0	44. 7
14. 40	13. 30	14. 30	0905						23. 42	18. 15	1. 13	0881	10. 40	02393			
15. 27	12. 35	16. 33	0907						23. 51	17. 40	1. 31	0878	14. 0	02500			
16. 22	12. 50	17. 42	0911						23. 59	18. 0	1. 59	0883	22. 42	03227			
16. 40	11. 50	19. 26	0915								3. 12	***	2. 47	0882			
16. 53	12. 30	20. 18	0911								3. 21	19. 30	3. 11	0885			
17. 16	12. 30	22. 32	0885								3. 31	23. 0	3. 35	0901			
17. 35	11. 30	22. 47	0885								3. 42	19. 40	4. 3	0885			
18. 15	13. 30	23. 19	0884								4. 0	21. 0	4. 18	0895			
19. 40	12. 50	23. 59	0885								4. 13	18. 40	5. 17	0886			
19. 53	13. 30										4. 27	20. 0	5. 21	0890			
21. 37	12. 40										4. 40	19. 0	***	***			
23. 1	15. 30										4. 40	20. 0	5. 43	0885			
23. 59	17. 45										4. 58	18. 40	5. 56	0892			
Jan. 26 0. 0	21. 17. 45	Jan. 26 0. 0	0885	0. 0	03164	0. 0	42. 3	43. 5	Jan. 26 3. 12	19. 30	4. 40	20. 0	5. 43	0885			
0. 14	18. 30	0. 33	0881	2. 11	03120	1. 0	44. 0	45. 0	3. 21	23. 0	4. 58	18. 40	5. 56	0892			
0. 28	17. 40	0. 47	0882	6. 44	02756	3. 0	46. 0	47. 0	3. 31	19. 40	5. 34	18. 15	6. 15	0886			
0. 52	18. 0	1. 6	0880	10. 0	02811	9. 0	47. 5	47. 3	3. 42	21. 0	5. 52	19. 20	6. 42	0895			
1. 17	16. 30	1. 57	0883	12. 0	02820	21. 0	47. 5	48. 7	4. 0	18. 40	6. 38	19. 0	6. 47	0888			
1. 41	17. 35	3. 46	0891	15. 42	02752				4. 13	20. 0	6. 52	20. 40	7. 2	0891			
1. 55	16. 30	4. 11	0888	22. 49	02735				4. 27	19. 0	7. 21	18. 30	7. 15	0887			
2. 42	16. 0	4. 48	0895	23. 59	02672				4. 40	20. 0	7. 39	15. 0	7. 20	0881			
2. 54	17. 0	5. 36	0892						4. 58	18. 40	7. 54	17. 40	7. 33	0886			
3. 45	16. 0	6. 3	0897						5. 34	18. 15	8. 15	7. 45	7. 47	0872			
4. 19	14. 5	6. 50	0896						5. 52	19. 20	8. 28	8. 15	7. 58	0874			
6. 45	14. 0	8. 49	0907						6. 38	19. 0	8. 57	15. 55	8. 7	0871			
8. 35	12. 30	9. 18	0899						6. 52	20. 40	9. 12	13. 0	***	***			
9. 0	13. 0	(†)	(†)						7. 21	18. 30	9. 27	10. 25	8. 40	0882			
10. 11	4. 5	9. 51	0900						7. 39	15. 0	10. 42	15. 30	9. 3	0877			
10. 21	7. 20	10. 15	0915						7. 54	17. 40	10. 56	13. 30	9. 32	0889			
11. 40	12. 10	10. 43	0901						8. 15	7. 45	11. 28	13. 15	9. 42	0887			
12. 18	12. 20	10. 51	0903						8. 28	8. 15	11. 41	14. 10	10. 27	0895			
13. 29	10. 50	11. 2	0899						8. 57	15. 55	11. 55	12. 5	10. 38	0885			
13. 53	12. 10	***	***						9. 12	13. 0	12. 15	13. 10	10. 52	0885			
14. 40	10. 0	11. 43	0904						9. 27	10. 25	12. 29	11. 10	11. 17	0893			
15. 25	12. 50	***	***						9. 42	10. 25	12. 55	16. 45	11. 31	0891			
16. 5	12. 30	13. 38	0903						10. 42	15. 30	13. 8	16. 15	12. 6	0892			
16. 30	13. 20	13. 56	0900						10. 56	13. 30	13. 39	6. 20	12. 11	0888			
17. 0	11. 30	14. 33	0903						11. 28	13. 15	14. 0	11. 0	12. 27	0894			
17. 22	12. 20	15. 10	0897						11. 41	14. 10	14. 37	7. 50	12. 42	0890			
17. 44	12. 10	15. 45	0896						11. 55	12. 5	14. 44	8. 30	***	***			
18. 9	13. 20	16. 43	0902						12. 15	13. 10	15. 0	7. 15	13. 30	0894			
18. 30	12. 40	***	***						12. 29	11. 10	15. 18	12. 10	13. 48	0912			
19. 39	11. 50	20. 27	0902						12. 55	16. 45	15. 59	11. 30	14. 33	0898			
20. 10	13. 0	20. 55	0899						13. 8	16. 15	16. 30	13. 0	14. 45	0902			
20. 54	11. 25	21. 33	0886						13. 39	6. 20	16. 54	12. 40	***	***			
21. 21	13. 0	22. 0	0885						14. 0	11. 0	17. 11	13. 20	15. 33	0897			
21. 44	13. 0	(†)	(†)						14. 37	7. 50	17. 22	17. 20	***	***			
21. 51	8. 5	23. 45	0891						14. 44	8. 30	22. 14	11. 0					
22. 0	15. 0	23. 59	0892						15. 0	7. 15	22. 22	17. 20					
22. 14	11. 0								15. 18	12. 10	22. 31	16. 0					
22. 22	17. 20								15. 59	11. 30							
22. 31	16. 0								16. 30	13. 0							
									16. 54	12. 40							
									17. 11	13. 20							
									17. 24	13. 0							

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.					
Jan. 27 17. 48 18. 28 18. 54 19. 24 19. 39 20. 12 20. 28 20. 44 22. 8 22. 43 23. 14 23. 38 23. 45 23. 59	21. 14. 20 13. 35 15. 10 22. 30 22. 30 14. 30 14. 0 15. 40 11. 10 *** 14. 0 13. 50 20. 30 19. 40 24. 0	Jan. 27 17. 25 18. 12 18. 38 19. 4 20. 52 21. 47 23. 3 23. 17 23. 47 23. 59	.0908 *** .0903 .0907 .0902 *** .0923 .0907 .0901 .0896 .0903 .0891	h m		h m	o	o														
Jan. 28 0. 0 0. 14 0. 27 0. 32 0. 39 0. 44 0. 55 1. 6 1. 11 1. 20 2. 10 2. 44 2. 58 3. 16 4. 12 6. 12 8. 22 10. 57 13. 55 18. 22 19. 0 20. 0 20. 21 20. 52 21. 51 22. 15 22. 43 22. 54 23. 4 23. 25 23. 59	21. 24. 0 17. 0 22. 30 20. 0 21. 30 17. 40 22. 50 20. 50 21. 10 17. 45 15. 0 17. 10 15. 40 17. 0 14. 40 *** 12. 30 *** 12. 0 11. 45 13. 40 13. 0 16. 0 13. 30 14. 20 13. 0 13. 30 15. 30 14. 30 15. 35 14. 40 14. 30 16. 0	Jan. 28 0. 0 0. 14 0. 19 0. 25 0. 47 1. 13 2. 10 2. 21 2. 37 2. 46 3. 15 3. 45 3. 50 4. 2 4. 43 5. 6 5. 17 5. 32 5. 45 6. 6 6. 27 6. 45 7. 18 7. 30 7. 35 7. 43 8. 25 15. 15 18. 20 19. 7 20. 18 20. 45 21. 14	.0892 .0899 .0875 .0878 .0856 *** .0847 .0876 .0876 .0883 .0872 *** .0879 .0872 .0876 .0872 *** .0874 .0884 .0878 .0880 .0877 .0882 .0882 .0880 .0884 .0897 .0889 .0892 *** .0886 *** .0903 *** .0912 .0907 *** .0913 .0909 *** .0909	o. o 3. 1 12. 13; 21. 49 23. 59	.03148 .03170 .02720 .03165 .03180	Jan. 28 1. 0 3. 0 9. 0 21. 50	43. 5 45. 0 45. 0 43. 7	44. 8 46. 0 45. 0 45. 3	Jan. 29 0. 0 0. 12 0. 23 0. 30 1. 8 1. 44 1. 49 2. 0 2. 14 3. 4 3. 15 3. 33 3. 51 5. 57 6. 25 9. 38 14. 10 14. 22 14. 31 15. 15 15. 43 16. 30 17. 15 20. 7 20. 28 20. 44 21. 0 22. 44 23. 39 23. 59	21. 16. 0 17. 15 17. 20 18. 30 17. 20 17. 20 21. 25 19. 0 21. 0 18. 25 18. 55 17. 50 18. 20 16. 30 13. 0 13. 40 10. 25 14. 55 16. 20 15. 30 15. 0 16. 0 13. 0 13. 50 12. 50 11. 30 12. 0 10. 50 *** 14. 30 18. 35 17. 10	Jan. 29 0. 0 0. 33 *** 1. 15 1. 42 1. 52 1. 59 2. 20 3. 2 3. 11 4. 13 5. 27 5. 46 6. 52 8. 10 9. 27 13. 50 16. 15 *** 16. 50 *** 18. 53 20. 50 21. 51 *** 23. 18 (†)	Jan. 29 0. 0 1. 17 2. 58 7. 11; 13. 57 23. 59	.0894 .0893 *** .0883 .0884 .0880 .0880 .0877 .0889 .0887 .0893 .0894 .0882 .0897 *** .0898 *** .0896 *** .0905 *** .0913 *** .0911 *** .0917 .0909 .0891 *** .0891 (†)	Jan. 29 8. 40 21. 0	47. 3 48. 8 42. 0 44. 0	Jan. 30 0. 0 0. 14 0. 43 0. 52 1. 8 1. 24 1. 32 1. 41 2. 0 2. 21 2. 41 2. 58 3. 24 5. 39 10. 12 13. 26 13. 41 13. 59 14. 44 19. 45	21. 17. 10 19. 30 16. 55 17. 50 17. 20 20. 0 20. 0 18. 0 17. 20 18. 30 16. 20 15. 30 16. 30 13. 10 12. 0 14. 0 13. 35 14. 30 13. 40 12. 45	Jan. 30 (†) 0. 12 0. 27 0. 48 1. 5 2. 54 3. 55 5. 45 9. 24 9. 45 10. 3 *** 13. 48 14. 33 15. 47 18. 46 20. 40 *** 22. 13	Jan. 30 0. 0 2. 28 7. 47; 12. 0; 14. 46 22. 58 23. 59	.03260 .03071 .02410 .02260 .02283 .02600 .02606	Jan. 30 1. 0 3. 0 9. 0 21. 5	45. 0 46. 0 48. 0 49. 0 50. 0 51. 0 45. 0 47. 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Jan. 30 h m 21. 0	21. 10. 50	Jan. 30 h m 23. 10	·0882	h m		h m			Jan. 31 h m 23. 43	21. 20. 40	h m		h m		h m		
21. 43	10. 50	23. 37	·0881						23. 55	18. 0							
23. 34	16. 55	23. 47	·0877						23. 59	18. 35							
23. 59	17. 0	23. 59	·0879														
Jan. 31 h m 0. 0	21. 17. 0	Jan. 31 h m 0. 0	·0879	Jan. 31 h m 0. 0	·02606	Jan. 31 h m 1. 0	48. 0	49. 0	Feb. 1 h m 0. 0	21. 18. 35	Feb. 1 h m 0. 20	(+)	Feb. 1 h m 0. 0	·03223	Feb. 1 h m 0. 0	39. 0	41. 3
0. 50	16. 20	0. 18	·0879	1. 57	·02520	3. 0	49. 5	51. 0	0. 13	19. 30	0. 20	·0890	2. 0	·03218	1. 0	40. 0	43. 0
0. 55	16. 50	0. 49	·0885	4. 56	·02205	9. 0	47. 4	59. 5	0. 20	19. 0	0. 38	·0891	10. 19.	·02552	3. 0	43. 0	45. 3
1. 11	16. 10	1. 6	·0882	9. 44	·02210	21. 0	38. 0	42. 0	0. 28	19. 50	0. 48	·0885	16. 43	·02660	6. 0	45. 2	47. 0
1. 27	17. 0	1. 48	·0879	15. 30	·02565				0. 39	18. 45	1. 19	·0884	21. 4	·02799	9. 0	44. 2	46. 4
1. 59	15. 15	2. 10	·0886	23. 4	·03250				0. 44	19. 35	3. 0	·0895*	23. 25	·02968	12. 0	43. 8	46. 0
2. 12	16. 45	2. 55	·0880	23. 59	·03223				0. 59	18. 20	3. 0	·0895*	23. 59	·02950	18. 0	40. 0	42. 2
2. 30	15. 30	3. 43	·0887						2. 19	18. 30	3. 10	·0894			21. 0	39. 0	42. 0
2. 42	15. 45	4. 38	·0886						2. 27	17. 0	3. 33	·0898					
2. 54	15. 0	5. 11	·0871						4. 18	13. 40	4. 15	·0895					
3. 45	15. 45	5. 46	·0889						6. 14	13. 0	5. 47	·0902					
4. 41	14. 0	***	***						6. 30	12. 10	7. 20	·0902					
5. 8	10. 0	6. 37	·0890						16. 48	13. 30	11. 39	·0907					
5. 12	10. 30	7. 6	·0898						17. 40	13. 50	11. 47	·0906					
5. 31	8. 40	7. 25	·0890						20. 57	12. 30	18. 22	·0919					
6. 0	13. 50	***	***						21. 15	12. 0	20. 33	·0913					
6. 25	14. 30	8. 30	·0885						21. 43	12. 40	22. 15	·0898					
7. 4	13. 20	9. 20	·0903						21. 49	12. 5	23. 59	·0897					
7. 29	14. 40	***	***						22. 30	14. 0							
8. 17	12. 0	10. 38	·0897						22. 41	13. 50							
8. 44	5. 40	***	***						22. 54	15. 20							
9. 6	11. 35	15. 42	·0908						23. 14	15. 20							
9. 15	10. 0	***	***						23. 27	16. 45							
9. 24	10. 30	16. 33	·0905						23. 59	16. 25							
9. 41	9. 0	***	***														
10. 28	11. 50	18. 18	·0919						Feb. 2 h m 0. 0	21. 16. 25	Feb. 2 h m 0. 0	·0897	Feb. 2 h m 0. 0	·02950	Feb. 2 h m 0. 0	41. 5	43. 5
12. 16	13. 10	***	***						1. 42	17. 45	0. 57	·0892	2. 22	·02878	1. 0	42. 3	43. 5
12. 39	14. 5	18. 45	·0916						1. 56	16. 55	1. 30	·0887	6. 15.	·02590	3. 0	44. 0	46. 0
13. 57	13. 10	19. 7	·0919						2. 51	16. 30	***	***	11. 45	·02546	9. 0	43. 0	45. 5
14. 16	14. 0	19. 45	·0915						3. 8	15. 20	4. 10	·0897	22. 15	·02948	21. 0	40. 0	42. 0
14. 39	13. 35	***	***						4. 12	13. 50	***	***	23. 59	·02920			
16. 3	13. 55	20. 13	·0917						4. 29	13. 0	4. 45	·0897					
17. 0	15. 10	***	***						5. 9	13. 15	***	***					
17. 21	14. 15	22. 29	·0894						6. 10	12. 10	5. 42	·0903					
17. 41	14. 50	22. 42	·0897						6. 44	15. 0	***	***					
17. 49	13. 40	***	***						6. 58	14. 20	6. 45	·0899					
18. 13	13. 30	23. 21	·0897						7. 24	14. 45	***	***					
18. 21	14. 0	23. 34	·0893						8. 24	13. 15	8. 15	·0906					
18. 28	13. 15	23. 42	·0898						8. 51	11. 55	8. 42	·0903					
	***		(+)						9. 16	12. 15	9. 18	·0913					
21. 10	11. 45								10. 42	11. 20	***	***					
21. 26	13. 0								12. 10	12. 20	11. 13	·0914					
21. 39	11. 30								12. 40	13. 30	11. 42	·0924					
22. 12	13. 0								14. 14	14. 30	***	***					
22. 28	12. 30								16. 19	13. 35	12. 40	·0918					
22. 41	14. 25								16. 44	15. 10	18. 25	·0927					
22. 49	13. 55								21. 7	10. 25	18. 36	·0931					
22. 58	15. 0								22. 43	13. 0	19. 37	·0929					
23. 9	17. 0								23. 59	16. 40	***	***					
23. 16	16. 15										23. 59	·0899					
23. 21	17. 30																
23. 30	16. 10																

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.																					
Feb. 3 0. 0 0. 8 0. 11 0. 16 0. 39 0. 57 1. 14 1. 28 1. 57 2. 11 2. 52 3. 7 3. 36 3. 43 4. 0 5. 9 8. 39 9. 27 9. 45 10. 14 10. 37 10. 57 11. 52 12. 9 12. 30 14. 13 14. 53 15. 0 15. 46 16. 0 16. 56 17. 11 18. 22 18. 42 18. 56 19. 28 21. 4 21. 56 22. 30 23. 13 23. 59	21. 16. 40 16. 0 16. 40 16. 0 18. 0 16. 30 18. 15 17. 30 20. 20 18. 0 16. 0 16. 35 14. 40 15. 10 14. 5 13. 30 13. 10 12. 0 12. 40 9. 5 10. 45 15. 45 9. 0 10. 5 8. 5 13. 0 12. 30 20. 17 13. 40 14. 15 13. 30 14. 40 14. 0 13. 20 14. 0 13. 30 14. 10 12. 10 12. 40 15. 0 14. 30 17. 0	Feb. 3 0. 0 0. 48 1. 45 2. 4 3. 47 5. 10 7. 19 7. 40 8. 51 9. 42 10. 0 10. 15 10. 42 10. 55 11. 13 11. 52 14. 57 15. 6 15. 17 18. 45 20. 17 21. 46 22. 28 23. 12 23. 59	0.899 0.897 0.899 0.897 0.899 *** 0.906 *** 0.909 0.906 0.910 0.906 *** 0.907 0.903 0.907 0.913 0.914 *** 0.909 *** 0.917 0.922 0.920 *** 0.932 0.931 0.913 0.914 *** 0.906 0.909	Feb. 3 0. 0 1. 11 9. 24 15. 45 22. 48	(†) 0.2020 0.2390 0.2217 0.2423 0.2940	Feb. 3 1. 0 3. 0 9. 0 21. 0	43.0 45.8 45.4 39.0	44.0 47.0 46.7 41.0	Feb. 4 5. 7 7. 16 11. 7 11. 15 11. 59 12. 42 13. 16 14. 10 14. 49 15. 22 16. 0 16. 42 18. 23 20. 23 20. 50 21. 10 21. 49 22. 13 23. 35 23. 43 23. 51 23. 59	21. 13. 0 13. 25 12. 0 10. 15 12. 30 13. 0 11. 5 14. 10 12. 55 13. 35 12. 45 13. 50 13. 15 11. 30 12. 55 13. 0 15. 0 15. 15 15. 30 14. 35 16. 0 15. 30	Feb. 4 11. 52 12. 40 13. 27 14. 3 20. 42 23. 59	0.911 *** 0.911 0.920 0.915 0.924 0.900	Feb. 5 0. 0 0. 32 0. 47 0. 54 1. 43 3. 31 4. 0 4. 45 5. 30 6. 50 15. 45 16. 21 17. 9 21. 19 21. 41 21. 57 22. 28 23. 50 23. 59	21. 15. 30 15. 50 17. 45 17. 25 20. 10 17. 30 17. 50 16. 30 16. 15 14. 20 14. 25 15. 0 14. 0 11. 30 17. 7 11. 30 13. 0 12. 30 12. 50 16. 0 16. 0	Feb. 5 0. 0 1. 37 2. 43 3. 46 5. 0 5. 16 6. 10 6. 47 11. 30 16. 8 17. 7 20. 20 22. 41 23. 59	0.900 0.903 0.900 0.892 0.899 0.903 0.905 0.910 *** 0.914 *** 0.917 0.922 0.919 *** 0.903 *** 0.907	Feb. 5 0. 0 3. 23 4. 9 4. 27 9. 13 14. 15 19. 16 23. 59	0.2245 0.2260 0.2173 0.2207 0.2311 0.2308 0.2480 0.2562 0.2764	Feb. 5 7. 20 21. 5	49.7 45.7	50.5 47.0	Feb. 4 0. 0 0. 28 1. 9 1. 15 1. 28 1. 50 2. 4 2. 11 2. 26 2. 37 2. 56 3. 7 3. 40 4. 35	21. 17. 0 17. 30 16. 0 16. 15 15. 40 17. 20 16. 45 18. 0 17. 50 17. 0 16. 50 17. 20 16. 0 15. 0	Feb. 4 0. 0 0. 45 1. 24 2. 7 2. 21 2. 52 3. 25 4. 47 4. 56 7. 7 8. 18 11. 13	0.909 0.911 0.905 0.907 0.912 *** 0.912 0.906 0.913 0.910 0.919 0.920 0.914	(†) 0.2934 0.2893 0.2160 0.2218 0.2203 0.2245	Feb. 4 1. 0 3. 0 9. 0 22. 40	42.7 45.0 47.5 47.5	43.5 46.2 48.0 48.7	Feb. 6 0. 0 0. 44 0. 57 1. 16 1. 29 1. 38 1. 59 2. 19 3. 45 5. 10 7. 0 10. 22	21. 16. 0 16. 20 15. 25 17. 0 16. 20 17. 15 16. 10 17. 0 13. 50 13. 20 14. 0 13. 0	Feb. 6 0. 0 1. 5 1. 46 2. 7 4. 14 5. 48 9. 42 19. 3 20. 30 21. 52	0.907 0.904 0.909 0.904 0.903 0.907 *** 0.923 *** 0.935 0.932 0.919	Feb. 6 0. 0 1. 43 5. 49 9. 37 19. 54 22. 15 23. 59	0.2764 0.2790 0.2467 0.2470 0.3072 0.3272 0.3244	Feb. 6 1. 0 3. 0 9. 0 21. 0	47.3 48.6 45.4 38.7	48.0 48.3 47.2 41.5
Feb. 4 0. 0 0. 28 1. 9 1. 15 1. 28 1. 50 2. 4 2. 11 2. 26 2. 37 2. 56 3. 7 3. 40 4. 35	21. 17. 0 17. 30 16. 0 16. 15 15. 40 17. 20 16. 45 18. 0 17. 50 17. 0 16. 50 17. 20 16. 0 15. 0	Feb. 4 0. 0 0. 45 1. 24 2. 7 2. 21 2. 52 3. 25 4. 47 4. 56 7. 7 8. 18 11. 13	0.909 0.911 0.905 0.907 0.912 *** 0.912 0.906 0.913 0.910 0.919 0.920 0.914	(†) 0.2934 0.2893 0.2160 0.2218 0.2203 0.2245	Feb. 4 1. 0 3. 0 9. 0 22. 40	42.7 45.0 47.5 47.5	43.5 46.2 48.0 48.7	Feb. 6 0. 0 0. 44 0. 57 1. 16 1. 29 1. 38 1. 59 2. 19 3. 45 5. 10 7. 0 10. 22	21. 16. 0 16. 20 15. 25 17. 0 16. 20 17. 15 16. 10 17. 0 13. 50 13. 20 14. 0 13. 0	Feb. 6 0. 0 1. 5 1. 46 2. 7 4. 14 5. 48 9. 42 19. 3 20. 30 21. 52	0.907 0.904 0.909 0.904 0.903 0.907 *** 0.923 *** 0.935 0.932 0.919	Feb. 6 0. 0 1. 43 5. 49 9. 37 19. 54 22. 15 23. 59	0.2764 0.2790 0.2467 0.2470 0.3072 0.3272 0.3244	Feb. 6 1. 0 3. 0 9. 0 21. 0	47.3 48.6 45.4 38.7	48.0 48.3 47.2 41.5																						

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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.			
Feb. 6 h m 16. 52 18. 51 20. 39 21. 7 21. 56 23. 22	21. 14. 0 12. 55 13. 5 12. 20 11. 45 13. 45 (†)	Feb. 6 h m 23. 7 23. 59	•0927 •0919	h m		h m			h m											
Feb. 7 1. 26 2. 30 2. 51 3. 0 5. 7 11. 21 11. 45 11. 57 12. 12 12. 29 14. 52 15. 15 16. 52 17. 12 17. 51 18. 39 19. 22 20. 59 23. 59	(†) 21. 16. 30 17. 0 16. 10 16. 25 13. 20 12. 0 12. 15 13. 0 12. 45 10. 0 14. 10 13. 40 14. 30 13. 40 14. 30 12. 40 13. 30 11. 30 16. 35	Feb. 7 h m 0. 0 0. 52 2. 43 4. 32 6. 17 11. 15 11. 48 12. 2 12. 21 12. 55 *** 14. 29 17. 34 18. 40 19. 15 19. 52 22. 10 22. 30 22. 55 23. 59	•0919 •0922 •0914 •0916 •0927 •0929 •0927 •0936 •0938 •0931 *** •0927 •0928 •0935 •0932 •0933 •0909 •0910 •0900 •0896	Feb. 7 h m 0. 0 1. 37 6. 13 12. 24 20. 0 22. 48 23. 59	•03244 •03157 •02680 •02433 •02412 •02465 •02435	Feb. 7 h m 1. 0 3. 0 9. 0 21. 0	42. 5 45. 0 47. 0 46. 0 47. 0	43. 0 46. 0 48. 0 47. 0	Feb. 7 h m 12. 19 12. 52 13. 13 13. 30 15. 18 18. 28 18. 40 18. 51 20. 18 21. 5 22. 15 23. 51 23. 59	21. 15. 10 15. 0 15. 45 14. 10 14. 30 13. 30 11. 55 0. 50 10. 10 13. 20 13. 5 15. 0 14. 0 15. 20 13. 45 13. 20 13. 35 11. 0 10. 15 11. 45 18. 0 15. 55	Feb. 9 h m 7. 40 8. 23 9. 27 10. 11 10. 32 10. 46 11. 33 12. 20 12. 20 13. 6 13. 21 14. 8 16. 42 18. 15 19. 3 19. 52 20. 42 21. 46 22. 15 23. 37 23. 59	•0917 *** •0915 *** •0921 •0918 •0910 •0913 •0911 *** •0921 •0924 •0931 •0927 •0937 •0946 •0944 •0947 •0943 •0927 *** •0931 *** •0922 •0929	Feb. 9 h m 12. 19 12. 52 13. 13 13. 30 15. 18 18. 28 18. 40 18. 51 20. 18 21. 5 22. 15 23. 51 23. 59	21. 16. 55 16. 50 18. 0 18. 30 17. 20 18. 5 18. 0 16. 40 16. 40 5. 10 14. 10 14. 15 12. 20 14. 0 6. 15 8. 50 8. 40 11. 30 8. 0 8. 50 6. 20 0. 50 7. 30 5. 50 6. 0 11. 43 12. 13 3. 35 11. 25 12. 10 13. 50 12. 45	Feb. 10 h m 0. 0 0. 21 0. 37 1. 29 1. 42 1. 53 2. 15 2. 51 3. 27 5. 10 5. 35 6. 29 7. 0 7. 43 8. 11 8. 21 8. 49 9. 15 9. 30 9. 51 10. 24 11. 12 11. 24 11. 32 11. 43 12. 13 12. 47 13. 40 13. 54 14. 12 14. 28	Feb. 10 h m 0. 0 1. 43 7. 13 12. 26 20. 57 23. 59	•0929 •0920 *** •0921 *** •0908 •0918 •0916 •0922 •0919 •0925 •0921 *** •0923 •0914 •0913 •0909 •0920 •0911 •0915 •0907 *** •0913 •0921 •0917 •0919 •0912 *** •0925 •0921 •0921	Feb. 10 h m 1. 0 3. 0 9. 0 21. 0	38. 0 41. 0 41. 0 33. 7	40. 3 43. 0 43. 0 37. 2
Feb. 8 0. 0 0. 43 1. 12 2. 6 4. 9 11. 54 16. 25 16. 43 17. 26 17. 43 18. 30 21. 39 22. 15 23. 45 23. 59	21. 16. 35 18. 0 17. 15 17. 40 14. 40 13. 0 14. 15 15. 20 14. 0 14. 40 13. 15 9. 10 9. 30 12. 20 14. 0	Feb. 8 h m 0. 0 0. 6 0. 18 0. 43 1. 27 4. 48 14. 27 17. 15 17. 28 18. 40 21. 50 22. 41 23. 42 23. 59	•0896 •0895 •0899 •0899 •0894 •0904 *** •0919 •0929 •0926 •0935 •0913 •0908 •0900 •0902	Feb. 8 h m 0. 0 3. 15 4. 39 12. 45 16. 47 22. 7 23. 59	•02435 •02233 •02277 •02320 •02470 •02833 •02944	Feb. 8 h m 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 18. 0 21. 0	48. 7 49. 8 52. 0 52. 9 52. 3 51. 0 46. 8 45. 0	49. 7 49. 7 52. 7 52. 3 52. 5 52. 0 48. 8 47. 0	Feb. 8 h m 1. 29 1. 42 1. 53 2. 15 2. 51 3. 27 5. 10 5. 35 6. 29 7. 0 7. 43 8. 11 8. 21 8. 49 9. 15 9. 30 9. 51 10. 24 11. 12 11. 24 11. 32 11. 43 12. 13 12. 47 13. 40 13. 54 14. 12 14. 28	18. 30 17. 20 18. 5 18. 0 16. 40 16. 40 14. 10 14. 15 12. 20 14. 0 6. 15 8. 50 8. 40 11. 30 8. 0 8. 50 6. 20 0. 50 7. 30 5. 50 6. 0 11. 43 12. 13 3. 35 11. 25 12. 10 13. 50 12. 45	Feb. 10 h m 12. 26 20. 57 23. 59	•0921 *** •0908 •0918 •0916 •0922 •0919 •0925 •0921 *** •0923 •0914 •0913 •0909 •0920 •0911 •0915 •0907 *** •0913 •0921 •0917 •0919 •0912 *** •0925 •0921 •0921	Feb. 10 h m 1. 0 3. 0 9. 0 21. 0	38. 0 41. 0 41. 0 33. 7	40. 3 43. 0 43. 0 37. 2					
Feb. 9 0. 0 0. 8 0. 45 1. 10 1. 27 1. 32 1. 45 3. 15 3. 23 3. 54	21. 14. 0 13. 55 16. 20 15. 45 17. 0 16. 15 18. 50 17. 0 17. 45 16. 0	Feb. 9 h m 0. 0 1. 36 2. 2 2. 38 3. 17 3. 46 5. 7 5. 45 ***	•0902 •0901 •0908 •0908 *** •0902 •0909 •0909 •0906 ***	Feb. 9 h m 0. 0 1. 35 7. 35 15. 7 23. 59	•02944 •02980 •02777 •03260 •03113	Feb. 9 h m 0. 0 1. 0 3. 0 9. 0 21. 0	46. 0 46. 5 48. 0 44. 7 34. 0	47. 0 47. 3 48. 8 46. 4 38. 0	Feb. 9 h m 11. 12 11. 24 11. 32 11. 43 12. 13 12. 47 13. 40 13. 54 14. 12 14. 28	7. 30 5. 50 6. 0 4. 50 9. 0 3. 35 11. 25 12. 10 13. 50 12. 7	Feb. 9 h m 10. 2 10. 20 10. 24 10. 32 10. 47 11. 33 11. 52 12. 7	•0913 •0921 •0917 •0919 •0912 *** •0925 •0921 •0921	Feb. 9 h m 10. 2 10. 20 10. 24 10. 32 10. 47 11. 33 11. 52 12. 7	•0913 •0921 •0917 •0919 •0912 *** •0925 •0921 •0921	Feb. 9 h m 10. 2 10. 20 10. 24 10. 32 10. 47 11. 33 11. 52 12. 7	•0913 •0921 •0917 •0919 •0912 *** •0925 •0921 •0921				

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.	
Feb. 10 14. 40 14. 58 15. 24 15. 42 16. 37 17. 1 17. 14 17. 45 21. 21 22. 15 22. 43 22. 51 23. 59	21. 13. 0 11. 50 12. 10 13. 15 12. 20 13. 20 13. 0 13. 30 *** 11. 30 13. 0 15. 10 15. 0 17. 45	Feb. 10 12. 50 13. 2 12. 10 13. 43 14. 15 14. 26 14. 45 15. 20 16. 48 17. 5 18. 29 19. 45 20. 43 22. 2 23. 0 23. 59	.0929 .0924 *** .0920 .0931 .0927 .0930 .0929 .0936 .0935 *** .0944 *** .0943 *** .0947 .0936 *** .0917 *** .0911	h m		h m	o o		h m									
Feb. 11 0. 0 0. 14 0. 52 1. 2 1. 21 2. 10 3. 44 5. 41 11. 28 11. 57 12. 28 14. 24 14. 46 16. 10 16. 30 16. 45 16. 58 18. 3 19. 51 20. 1 20. 13 20. 21 20. 40 21. 37 21. 55 22. 22 23. 19 23. 51 23. 59	21. 17. 45 16. 50 18. 0 17. 10 18. 30 18. 55 15. 45 13. 40 13. 0 12. 15 12. 15 12. 15 13. 10 14. 35 13. 20 13. 45 14. 55 14. 10 15. 20 13. 20 12. 30 13. 20 12. 20 13. 0 12. 0 18. 50 16. 15 18. 20 17. 30 18. 30 18. 15	Feb. 11 0. 0 6. 45 7. 3 7. 26 9. 23 10. 2 12. 15 14. 52 16. 7 18. 10 19. 27 20. 26 21. 13 21. 44 21. 55 23. 59 .0911	.0911 .0927 .0934 .0931 *** .0934 .0931 .0931 *** .0937 .0936 .0945 .0947 .0942 .0925 .0923 .0925 *** .0911	Feb. 11 0. 0 1. 50 12. 5 23. 59	.03060 .02920 .02215 .02693	Feb. 11 1. 0 3. 0 9. 0 22. 48	38.0 41.0 42.7 36.0	39.0 41.7 43.8 38.0										
Feb. 12 0. 0 0. 29 0. 45 1. 3	21. 18. 15 17. 20 20. 10 18. 50	Feb. 12 0. 0 0. 40 1. 7 2. 10	.0911 .0917 .0909 .0912	Feb. 12 0. 0 1. 56 12. 38 22. 50	.02693 .02750 .02280 .02780	Feb. 12 9. 0 21. 0	41.0 35.0	42.5 37.0										
Feb. 12 2. 15 2. 30 2. 44 3. 23 3. 30 3. 46 3. 57 4. 10 4. 21 4. 30 4. 41 4. 49 5. 10 5. 24 5. 45 5. 53 6. 15 6. 45 7. 6 7. 11 7. 25 7. 39 8. 0 8. 29 8. 41 9. 6 9. 21 10. 4 10. 18 11. 52 12. 9 12. 51 14. 14 15. 7 18. 54 19. 13 20. 40 20. 53 21. 50 21. 55 22. 1 22. 21 23. 0 23. 26 23. 38 23. 59	21. 22. 40 20. 35 22. 5 22. 55 24. 15 22. 15 20. 0 19. 0 24. 30 22. 10 22. 20 21. 0 25. 5 25. 50 21. 30 22. 10 21. 0 16. 0 13. 50 14. 0 12. 50 13. 40 13. 30 11. 20 11. 20 1. 55 2. 0 9. 30 8. 0 *** 13. 30 12. 50 14. 0 14. 0 14. 55 14. 0 13. 15 12. 30 11. 20 14. 30 16. 0 14. 45 17. 30 *** 18. 20 21. 0 20. 20 22. 15	Feb. 12 2. 21 2. 21 3. 22 3. 36 3. 48 4. 13 4. 28 4. 36 4. 57 5. 31 5. 40 5. 46 6. 0 6. 9 6. 33 6. 47 7. 10 7. 22 7. 50 8. 10 8. 26 8. 48 8. 56 9. 10 9. 28 10. 2 10. 25 11. 10 12. 52 16. 10 17. 11 19. 15 20. 38 22. 2 22. 15 22. 50 23. 26 23. 59	.0909 *** .0920 .0909 .0909 .0925 .0912 .0918 *** .0915 .0898 .0892 .0897 .0896 .0906 .0891 .0896 *** .0893 .0900 .0903 .0897 .0904 .0905 .0902 .0887 .0887 .0903 .0905 .0915 *** .0919 .0921 .0927 .0925 .0919 .0894 .0897 .0890 .0893 *** .0883	Feb. 12 23. 59	.02785	h m	o o											
Feb. 13 0. 0 0. 17 1. 3 1. 28 2. 6 2. 23 3. 5 3. 41	21. 22. 15 23. 20 20. 5 21. 0 18. 0 20. 20 20. 10 18. 0	Feb. 13 0. 0 0. 17 6. 45 9. 30 21. 7	.0883 .0878 (†) .0886* .0894* .0891 .0898 .0895	Feb. 13 0. 0 1. 20 39. 0 21. 0	.02785 .02670 .02049 .02108 .02873 .02967 .02929	Feb. 13 1. 0 9. 0 39. 0 31. 3	40.0 43.0 39.0 31.3	41.0 44.0 41.5 35.7										

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Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.							
Feb. 13 3. 51 4. 40 6. 58 16. 37 21. 29 23. 51	21. 18. 30 13. 40 15. 0 13. 40 10. 20 17. 30	Feb. 13 5. 51 6. 52 7. 11 13. 47 18. 3 19. 39 23. 0 23. 30	'0911 *** '0913 '0907 *** '0917 '0927 '0925 '0899 '0897 (†)																					
Feb. 14 0. 28 1. 58 4. 12 8. 52 15. 7 15. 37 15. 54 16. 20 17. 45 17. 58 18. 23 18. 51 19. 15 20. 10 21. 54 23. 59	(†) 21. 16. 35 16. 45 13. 30 12. 30 14. 35 13. 20 13. 20 12. 25 12. 20 12. 55 15. 0 13. 40 16. 0 12. 30 10. 40 15. 45	Feb. 14 0. 46 3. 0 4. 34 4. 56 10. 2 13. 51 15. 33 16. 0 16. 42 18. 20 18. 50 19. 21 19. 43 21. 40 23. 17 23. 59	(†) '0899 '0894 '0898 '0891 '0908 '0916 '0924 '0920 '0924 '0925 '0929 '0923 '0924 '0913 '0891 '0887	Feb. 14 0. 0 1. 43 5. 24 7. 15 12. 14 20. 21 23. 59	'02929 '02833 '02240 '02050 '02089 '02110 '02438 '02623	Feb. 14 1. 0 3. 0 9. 0 21. 0	36. 0 39. 4 41. 0 35. 0	38. 0 41. 5 43. 0 38. 0																
Feb. 15 0. 0 0. 55 1. 37 2. 12 2. 23 2. 37 2. 45 4. 9 4. 25 5. 2 5. 21 5. 55 6. 21 6. 46 6. 56 7. 9 7. 51 7. 58 8. 29 9. 15 9. 40 9. 51 10. 14 10. 49 12. 12 12. 48	21. 15. 45 15. 55 15. 20 15. 45 17. 30 17. 5 17. 50 16. 0 17. 0 15. 20 15. 40 9. 0 11. 25 16. 40 15. 30 17. 0 15. 5 16. 0 13. 40 14. 0 5. 5 10. 30 9. 30 13. 0 14. 0 12. 50	Feb. 15 0. 0 0. 36 1. 0 3. 0 3. 27 4. 10 4. 48 5. 32 5. 49 6. 18 6. 42 6. 50 7. 7 7. 33 7. 55 8. 6 8. 33 9. 17 9. 38 10. 0 11. 9 11. 58 12. 15 12. 46 14. 7	'0887 '0888 (†) '0890* '0896* '0893 '0894 '0899 '0892 '0892 '0901 '0885 '0887 '0883 '0889 '0889 '0886 '0892 '0895 '0907 '0885 '0898 '0899 '0897 '0910 '0901	Feb. 15 0. 0 1. 36 5. 45 8. 37 13. 40 21. 36 22. 58 23. 59	'02623 '02617 '02130 '02162 '02192 '02140 '02309 '02360 '02349	Feb. 15 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 18. 0 21. 0	37. 3 39. 0 42. 5 44. 0 44. 5 43. 5 43. 0 41. 0 41. 2	39. 7 41. 0 44. 0 45. 5 45. 2 45. 1 44. 0 43. 8																
									Feb. 15 13. 21 13. 59 14. 30 15. 12 15. 19 15. 39 15. 51 16. 21 16. 56 17. 21 17. 28 17. 50 18. 37 18. 53 19. 24 19. 37 19. 49 20. 19 20. 38 21. 50 23. 59	21. 15. 5 11. 50 11. 20 13. 0 15. 15 13. 5 11. 30 8. 40 10. 10 13. 45 13. 30 14. 15 14. 0 12. 30 12. 0 12. 20 11. 20 *** 12. 40 11. 5 *** 13. 20 19. 0	Feb. 15 14. 43 16. 26 16. 47 17. 17 17. 30 21. 0	'0907 '0911 '0910 '0918 '0920 (†) '0902*												
									Feb. 16 0. 0 3. 26 4. 11 9. 15 10. 41 13. 9 13. 21 13. 31 13. 46 14. 9 14. 29 15. 13 15. 43 16. 12 16. 36 16. 43 17. 0 17. 43 17. 57 18. 58 19. 15 19. 55 20. 10 21. 39 22. 1 22. 15 23. 10 23. 26	21. 19. 0 15. 50 14. 20 *** 14. 15 12. 50 *** 12. 20 14. 0 12. 50 14. 20 11. 30 12. 0 8. 20 8. 0 11. 0 8. 15 8. 50 8. 0 9. 10 8. 30 *** 12. 0 13. 30 13. 30 12. 20 *** 13. 0 15. 30 15. 15 19. 10 17. 40	Feb. 16 1. 0 3. 0 5. 50 7. 1 10. 20 11. 52 12. 16 14. 0 14. 40 15. 15 15. 43 16. 6 17. 25 19. 20 20. 58 22. 52 23. 59	(†) '0890* '0902* '0904 *** '0911 '0926 '0925 '0930 *** '0926 '0919 '0922 '0915 '0918 '0911 '0922 *** '0914 '0913 '0909 '0914 '0906 '0909 '0904 '0916 '0904 '0906												
									Feb. 16 0. 0 1. 0 2. 42 3. 39 9. 24 20. 58 22. 52 23. 59	'02349 '02293 '02156 '02205 '02306 '02954 '03043 '03053	Feb. 16 0. 0 1. 0 3. 0 9. 0 21. 0	43. 6 44. 8 47. 0 44. 0 38. 7	45. 1 46. 5 48. 2 46. 2 41. 2											

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Feb. 16 23. 45 23. 59	21. 25. 30 24. 30								Feb. 17 21. 12 22. 0 23. 59	21. 11. 45 10. 20 15. 30							
Feb. 17 0. 0 0. 15 0. 36 0. 43 1. 10 1. 51 1. 59 2. 12 2. 25 2. 51 3. 12 3. 23 3. 44 4. 4 4. 19 4. 30 4. 39 4. 51 5. 0 5. 10 5. 30 6. 0 6. 41 7. 27 7. 52 7. 57 8. 19 8. 47 9. 54 10. 54 11. 5 11. 14 11. 45 11. 55 12. 7 12. 44 12. 55 13. 13 13. 30 13. 45 14. 13 14. 31 15. 6 15. 31 16. 10 16. 27 16. 45 17. 3 18. 4 18. 17 18. 44 20. 48 20. 57	Feb. 17 21. 24. 30 23. 0 26. 20 25. 50 27. 50 24. 20 29. 20 27. 5 27. 20 17. 20 20. 50 18. 45 21. 20 18. 30 18. 0 19. 10 18. 35 21. 20 18. 20 19. 45 12. 40 15. 20 13. 30 13. 45 11. 20 11. 40 8. 45 9. 30 12. 45 12. 10 13. 0 15. 20 14. 30 15. 20 8. 0 10. 0 9. 30 8. 0 10. 10 9. 30 12. 20 12. 50 8. 15 13. 20 10. 40 10. 15 12. 40 12. 0 13. 20 12. 15 11. 45 10. 20	Feb. 17 0. 0 0. 16 0. 24 (†) 0. 896* 0. 896* 0. 866 0. 875 *** 0. 886 0. 884 0. 887 *** 0. 885 0. 890 0. 888 0. 899 *** 0. 899 0. 908 0. 902 0. 909 0. 921 *** 0. 908 0. 912 *** 0. 901 *** 0. 896 *** 0. 901 0. 898 0. 900 *** 0. 906 0. 903 0. 907 0. 903 0. 909 0. 901 0. 907 0. 895 0. 894 0. 888 *** 0. 888 (†) 0. 888 (†) 0. 888 *** 0. 888 0. 888	Feb. 17 0. 0 2. 22 7. 11 8. 27 12. 19 23. 0	Feb. 17 0. 0 0. 3053 0. 2928 0. 2310 0. 2320 0. 2237 0. 2681 (†)	Feb. 17 1. 0 3. 0 9. 0 21. 8	42. 5 43. 8 45. 7 47. 0 42. 8 44. 2	Feb. 18 0. 0 0. 14 0. 36 0. 54 1. 10 1. 25 1. 50 1. 59 2. 26 2. 43 3. 8 3. 21 4. 24 5. 14 5. 43 5. 54 6. 10 6. 19 6. 36 6. 51 6. 57 7. 14 7. 30 7. 54 8. 11 9. 39 10. 0 10. 13 10. 21 10. 45 10. 54 11. 7 11. 19 11. 29 11. 42 12. 0 12. 12 12. 40 13. 0 13. 26 14. 10 14. 19 14. 44 14. 55 15. 31 16. 13 16. 54 17. 20 17. 54 18. 9 18. 20	Feb. 18 21. 15. 30 19. 30 16. 30 18. 40 17. 15 18. 30 20. 40 19. 0 22. 30 21. 30 14. 20 13. 0 16. 30 16. 15 13. 20 13. 55 13. 10 14. 0 13. 20 9. 20 11. 15 6. 50 11. 15 10. 20 12. 30 10. 30 6. 0 9. 5 1. 10 8. 15 6. 20 6. 45 6. 0 4. 0 6. 30 7. 0 8. 10 5. 30 8. 30 10. 20 9. 50 11. 5 9. 0 10. 55 4. 50 13. 30 11. 10 13. 50 12. 30 13. 55 13. 5	Feb. 18 1. 0 3. 0 3. 56 4. 27 4. 58 5. 20 5. 36 *** 6. 37 6. 42 6. 58 7. 22 7. 37 7. 46 8. 0 8. 17 8. 43 10. 15 (†) 11. 5 11. 22 11. 36 11. 47 12. 5 12. 30 12. 47 *** 14. 0 14. 12 14. 25 14. 44 14. 54 15. 47 16. 16 16. 28 16. 33 17. 13 17. 45 18. 41 19. 3 19. 51 20. 8 21. 2 (†) 21. 47 22. 32 (†) (†) (†) 22. 32 12. 30 13. 55 13. 5	Feb. 18 3. 30 5. 12 6. 22 6. 45 10. 55 14. 29 15. 37 20. 24 23. 59	Feb. 18 0. 2590 0. 2368 0. 2372 0. 2430 0. 2407 0. 2465 0. 2411 0. 2793 0. 2805	Feb. 18 1. 0 3. 0 9. 0 22. 30	45. 0 47. 5 47. 0 48. 0 42. 0 43. 2				

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

February 18. On this day the adjustments, &c. of the Vertical Force Magnet were examined.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Feb. 18 19. 15 19. 39 19. 53 20. 0 20. 31 20. 54 21. 44 21. 54 22. 15	21. 14. 30 12. 30 14. 50 14. 0 15. 10 13. 20 14. 30 13. 35 15. 30 (†)	h m		h m		h m			h m								
Feb. 19 6. 57 21. 0	21. 7. 46* 9. 57*	Feb. 19 6. 57 21. 0	*0909* *0913*	Feb. 19 0. 0 3. 39 9. 18 11. 9 13. 51 23. 59	*02805 *02853 *02680 *02684 *02805 *02710	Feb. 19 6. 57 21. 0	44. 2 35. 0	45. 0 38. 0	Feb. 19 13. 51 20. 24 23. 59		Feb. 19 13. 51 20. 24 23. 59	*02303 *02904 *02888	Feb. 22 9. 0 12. 0 18. 0 21. 0	*02303 *02904 *02888	Feb. 22 9. 0 12. 0 18. 0 21. 0	47. 1 44. 5 39. 0 37. 0	47. 5 46. 0 41. 4 40. 0
Feb. 20 1. 0 3. 0 9. 0 21. 0	21. 11. 41* 17. 26* 14. 18* 11. 54*	Feb. 20 1. 0 3. 0 9. 0 21. 0	*0900* *0884* *0912* *0908*	Feb. 20 0. 0 2. 30 6. 52 12. 43 23. 59	*02710 *02649 *02164 *02040 *02257	Feb. 20 1. 0 3. 0 9. 0 21. 0	39. 0 41. 5 42. 3 39. 0	40. 4 42. 2 44. 0 41. 7	Feb. 20 1. 0 3. 0 9. 0 21. 0	21. 21. 11* 18. 16* 8. 19* 10. 44*	Feb. 23 1. 0 3. 0 9. 0 21. 0	*0892* *0889* *0904* *0923*	Feb. 23 0. 0 1. 53 6. 5 10. 21 18. 39 23. 59	*02888 *02760 *02092 *02163 *02872 *02791	Feb. 23 0. 0 1. 0 3. 0 9. 0 21. 0	41. 0 42. 1 46. 0 45. 0 34. 0	42. 0 43. 0 47. 0 45. 7 37. 2
Feb. 21 1. 0 3. 0 9. 0 21. 0	21. 29. 16* 27. 32* 10. 23* 15. 50*	Feb. 21 1. 0 3. 0 9. 0 21. 0	*0912* *0904* *0853* *0862*	Feb. 21 0. 0 0. 55 3. 56 4. 42 5. 0 5. 10 7. 10 9. 12 10. 25 10. 37 11. 7 11. 12 11. 19 11. 30 11. 45 12. 15 13. 12 13. 30 15. 54 16. 28 23. 59	*02257 *02300 *02155 *02220 *02328 *02280 *02225 *02264 *02207 *02122 *01977 *02008 *01965 *02074 *02040 *02130 *02152 *02110 *02118 *02187 *02648	Feb. 21 1. 0 3. 0 9. 0 21. 0	42. 0 44. 0 45. 0 40. 8	43. 0 45. 3 46. 5 43. 0	Feb. 21 1. 0 3. 0 9. 0 21. 0	21. 19. 32* 19. 3* 10. 42* 12. 31*	Feb. 25 1. 0 3. 0 9. 0 22. 0	*0909* *0911* *0908* *0913*	Feb. 25 0. 0 2. 22 6. 42 10. 27 19. 50 23. 59	*02773 *02670 *02028 *02070 *02532 *02569	Feb. 25 1. 0 3. 0 9. 0 22. 0	39. 8 43. 0 44. 0 42. 3	40. 7 44. 0 45. 0 43. 8
Feb. 21 1. 0 3. 0 9. 0 21. 0	21. 29. 16* 27. 32* 10. 23* 15. 50*	Feb. 21 1. 0 3. 0 9. 0 21. 0	*0912* *0904* *0853* *0862*	Feb. 21 0. 0 0. 55 3. 56 4. 42 5. 0 5. 10 7. 10 9. 12 10. 25 10. 37 11. 7 11. 12 11. 19 11. 30 11. 45 12. 15 13. 12 13. 30 15. 54 16. 28 23. 59	*02257 *02300 *02155 *02220 *02328 *02280 *02225 *02264 *02207 *02122 *01977 *02008 *01965 *02074 *02040 *02130 *02152 *02110 *02118 *02187 *02648	Feb. 21 1. 0 3. 0 9. 0 21. 0	42. 0 44. 0 45. 0 40. 8	43. 0 45. 3 46. 5 43. 0	Feb. 21 1. 0 3. 0 9. 0 21. 0	21. 11. 42* 11. 7*	Feb. 26 9. 0 21. 0	*0914* *0904*	Feb. 26 0. 0 5. 10 8. 26 12. 44 16. 58 23. 28 23. 59	*02569 *02084 *02130 *02084 *02123 *02387 *02360	Feb. 26 9. 0 21. 0	49. 0 45. 7	50. 0 47. 5
Feb. 21 1. 0 3. 0 9. 0 21. 0	21. 29. 16* 27. 32* 10. 23* 15. 50*	Feb. 21 1. 0 3. 0 9. 0 21. 0	*0912* *0904* *0853* *0862*	Feb. 21 0. 0 0. 55 3. 56 4. 42 5. 0 5. 10 7. 10 9. 12 10. 25 10. 37 11. 7 11. 12 11. 19 11. 30 11. 45 12. 15 13. 12 13. 30 15. 54 16. 28 23. 59	*02257 *02300 *02155 *02220 *02328 *02280 *02225 *02264 *02207 *02122 *01977 *02008 *01965 *02074 *02040 *02130 *02152 *02110 *02118 *02187 *02648	Feb. 21 1. 0 3. 0 9. 0 21. 0	42. 0 44. 0 45. 0 40. 8	43. 0 45. 3 46. 5 43. 0	Feb. 21 1. 0 3. 0 9. 0 21. 0	21. 24. 19* 21. 57* 16. 59* 10. 32*	Feb. 27 1. 0 3. 0 9. 0 21. 0	*0885* *0886* *0902* *0931*	Feb. 27 0. 0 2. 24 5. 43 11. 21 15. 30 19. 28 21. 5 22. 40 23. 59	*02360 *02420 *02087 *02222 *02452 *02740 *02931 *02920 *02832	Feb. 27 1. 0 3. 0 9. 0 21. 0	48. 0 49. 0 47. 2 42. 7	49. 0 49. 0 48. 5 44. 2
Feb. 22 1. 0 3. 0 9. 0 21. 0	21. 25. 58* 25. 11* 7. 21* 9. 39*	Feb. 22 1. 0 3. 0 9. 0 21. 0	*0861* *0882* *0896* *0903*	Feb. 22 0. 0 1. 37 5. 15 9. 37	*02648 *02650 *02292 *02200	Feb. 22 0. 0 1. 0 3. 0 6. 0	42. 3 43. 6 46. 7 48. 2	43. 8 45. 0 47. 8 49. 0	Feb. 22 1. 0 3. 0 9. 0 21. 0	21. 21. 16* 18. 18*	Feb. 28 1. 0 3. 0	*0875* *0871*	Feb. 28 0. 0 1. 50	*02832 *02604	Feb. 28 1. 0 3. 0	48. 0 51. 2	49. 0 51. 5

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

From February 19 to March 21, the time-piece giving motion to the Horizontal Force and Declination Cylinder was away for repair.

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Feb. 28 9. 0 21. 0	21. 10. 5* 12. 43*	Feb. 28 9. 0 21. 0	.0893* .0908*	Feb. 28 4. 43 6. 12 7. 8 12. 30 19. 30 23. 59	.02080 .02100 .02152 .02338 .02956 .02757	Feb. 28 9. 0 21. 0	49. 0 41. 0	50. 8 43. 6	Mar. 4 7. 59 10. 45 13. 43 17. 8 22. 49 23. 59		Mar. 4 7. 59 10. 45 13. 43 17. 8 22. 49 23. 59	.02210 .02212 .02292 .02492 .02530 .02442 .02392	Mar. 4 7. 59 10. 45 13. 43 17. 8 22. 49 23. 59		Mar. 4 7. 59 10. 45 13. 43 17. 8 22. 49 23. 59		
Feb. 29 1. 0 3. 0 9. 0 21. 0	21. 19. 19* 17. 43* 5. 38* 11. 14*	Feb. 29 1. 0 3. 0 9. 0 21. 0	.0896* .0888* .0903* .0910*	Feb. 29 0. 0 0. 47 8. 45 21. 28 23. 59	.02757 .02770 .01972 .02870 .02825	Feb. 29 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 18. 0 21. 0	43. 0 44. 0 47. 8 49. 2 48. 2 46. 8 40. 5 40. 0	44. 0 45. 0 48. 3 51. 2 49. 5 47. 5 42. 5 42. 0	Mar. 5 1. 0 3. 0 9. 0 21. 0	21. 20. 46* 18. 51* 17. 33* 9. 47*	Mar. 5 1. 0 3. 0 9. 0 21. 0	.0892* .0890* .0908* .0913*	Mar. 5 0. 0 1. 30 7. 56 16. 52 22. 51 23. 59	.02392 .02300 .01624 .01972 .02418 .02405	Mar. 5 1. 0 3. 0 9. 0 21. 0	47. 0 49. 0 49. 0 40. 0	47. 7 50. 5 50. 3 43. 6
Mar. 1 1. 0 3. 0 9. 0 21. 0	21. 19. 47* 18. 18* 13. 49* 9. 54*	Mar. 1 1. 0 3. 0 9. 0 21. 0	.0876* .0876* .0898* .0890*	Mar. 1 0. 0 1. 27 6. 3 9. 15 9. 48 10. 57 14. 6 21. 0 23. 41	.02825 .02740 .01930 .01972 .02012 .02000 .02152 .02695 .02810 (†)	Mar. 1 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 18. 0 21. 0	43. 0 44. 0 44. 7 48. 5 49. 5 43. 0	44. 0 45. 8 49. 0 49. 5 44. 0	Mar. 6 1. 0 3. 0 9. 0 21. 0	21. 26. 8* 20. 56* 11. 10* 10. 14*	Mar. 6 1. 0 3. 0 9. 0 21. 0	.0902* .0898* .0913* .0914*	Mar. 6 0. 0 1. 15 6. 27 11. 7 15. 43 20. 57 23. 59	.02405 .02390 .01905 .01693 .01707 .01790 .01932	Mar. 6 1. 0 3. 0 9. 0 21. 0	44. 8 48. 0 49. 5 45. 0	45. 3 48. 8 51. 0 47. 7
Mar. 2 1. 0 3. 0 9. 0 21. 0	21. 22. 29* 20. 52* 13. 52* 10. 2*	Mar. 2 1. 0 3. 0 9. 0 21. 0	.0876* .0882* .0896* .0904*	Mar. 2 0. 26 2. 9 5. 57 8. 43 11. 23 14. 42 18. 23 21. 41 23. 59	(†) .02790 .02744 .02237 .02012 .02703 .02922 .02832 .02680 .02577 .02520	Mar. 2 1. 0 3. 0 9. 0 21. 0	47. 0 49. 0 49. 8 42. 0	47. 0 49. 6 51. 0 43. 0	Mar. 7 1. 0 3. 0 9. 0 21. 0	21. 20. 1* 18. 54* 12. 11* 8. 53*	Mar. 7 1. 0 3. 0 9. 0 21. 0	.0902* .0900* .0914* .0908*	Mar. 7 0. 0 2. 16 5. 57 6. 47 17. 48 19. 40 23. 59	.01932 .02008 .02000 .02025 .02542 .02520 .02379	Mar. 7 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 18. 0 21. 0	45. 8 46. 0 47. 3 45. 8 43. 7 42. 0 39. 6 39. 0	46. 8 47. 0 47. 5 46. 3 44. 9 42. 8 64. 2 42. 0
Mar. 3 1. 0 3. 0 9. 0 22. 30	21. 22. 56* 21. 40* 17. 4* 12. 53*	Mar. 3 1. 0 3. 0 9. 0 22. 30	.0873* .0880* .0898* .0896*	Mar. 3 0. 0 2. 12 7. 52 14. 48 18. 13 23. 59	.02520 .02326 .01788 .02000 .02018 .02240	Mar. 3 1. 0 3. 0 6. 0 9. 0 22. 30	46. 5 49. 0 50. 0 45. 0	46. 8 50. 0 50. 2 46. 7	Mar. 8 1. 0 3. 0 9. 0 21. 0	21. 28. 16* 19. 30* 5. 45* 16. 56*	Mar. 8 1. 0 3. 0 9. 0 21. 0	.0892* .0877* .0903* .0885*	Mar. 8 0. 0 2. 13 8. 30 21. 4 22. 57 23. 59	.02379 .02342 .01860 .02433 .02292 .02289	Mar. 8 0. 0 1. 0 3. 0 9. 0 21. 0	42. 0 43. 6 46. 0 43. 5 37. 3	43. 2 44. 4 46. 5 45. 0 40. 2
Mar. 3 1. 0 3. 0 9. 0 22. 30	21. 22. 56* 21. 40* 17. 4* 12. 53*	Mar. 3 1. 0 3. 0 9. 0 22. 30	.0873* .0880* .0898* .0896*	Mar. 3 0. 0 2. 12 7. 52 14. 48 18. 13 23. 59	.02520 .02326 .01788 .02000 .02018 .02240	Mar. 3 1. 0 3. 0 6. 0 9. 0 22. 30	46. 5 49. 0 50. 0 45. 0	46. 8 50. 0 50. 2 46. 7	Mar. 9 1. 0 3. 0 9. 0 21. 0	21. 22. 50* 19. 5* 16. 37* 9. 4*	Mar. 9 1. 0 3. 0 9. 0 21. 0	.0894* .0897* .0906* .0892*	Mar. 9 0. 0 3. 43 6. 42 10. 56 12. 50 22. 18 23. 59	.02289 .01938 .01660 .01572 .01610 .02273 .02265	Mar. 9 1. 0 3. 0 9. 0 21. 0	42. 7 45. 8 45. 0 36. 5	43. 0 46. 2 46. 2 38. 8
Mar. 4 6. 45 21. 0	21. 16. 50* 14. 6*	Mar. 4 6. 45 21. 0	.0911* .0905*	Mar. 4 0. 0 3. 21	.02240 .02302	Mar. 4 6. 45 21. 0	48. 0 41. 8	49. 0 44. 0	Mar. 10 1. 0 3. 0 9. 0	21. 22. 2* 21. 45* 13. 53*	Mar. 10 1. 0 3. 0 9. 0	.0879* .0888* .0896*	Mar. 10 0. 0 1. 39 10. 13	.02265 .02195 .01480	Mar. 10 1. 0 3. 0 9. 0	41. 0 44. 0 46. 3	42. 0 45. 0 46. 7

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Mar. 10 22. 34	21. 12. 0*	Mar. 10 22. 34	·0882*	Mar. 10 20. 22 23. 59	·01862 ·01928	Mar. 10 22. 34	40° 0'	42° 0'	Mar. 15 1. 0 3. 0 9. 0 21. 0	21. 20. 55* 19. 14* 13. 30* 10. 31*	Mar. 15 1. 0 3. 0 9. 0 21. 0	·0876* ·0892* ·0896* ·0888*	Mar. 15 0. 0 1. 30 6. 59 10. 57 23. 59	·02650 ·02563 ·01963 ·01850 ·02312	Mar. 15 1. 0 3. 0 9. 0 21. 0	42° 0' 44° 0' 46° 7' 48° 0' 44° 0'	43° 0' 45° 2' 48° 0' 48° 7' 45° 1'
Mar. 11 8. 45 21. 0	21. 13. 50* 7. 23*	Mar. 11 8. 45 21. 0	·0898* ·0900*	Mar. 11 0. 0 1. 37 6. 15 7. 29 12. 27 17. 12 22. 39	·01928 ·01903 ·01472 ·01513 ·01574 ·01700 ·01907 (†)	Mar. 11 8. 45 21. 0	48° 2'	47° 8'	Mar. 16 1. 0 3. 0 9. 0 21. 0	21. 17. 8* 20. 34* 14. 31* 8. 40*	Mar. 16 1. 0 3. 0 9. 0 21. 0	·0886* ·0894* ·0906* ·0891*	Mar. 16 0. 0 1. 57 5. 39 7. 10 12. 14 14. 15 18. 43 22. 36 23. 45	·02312 ·02222 ·01712 ·01788 ·01738 ·01847 ·02312 ·02558 (†)	Mar. 16 1. 0 3. 0 9. 0 21. 0	48° 2' 51° 4' 53° 0' 47° 5'	48° 5' 51° 7' 53° 5' 48° 0'
Mar. 12 1. 0 3. 0 9. 0 21. 0	21. 21. 44* 30. 29* 12. 47* 9. 15*	Mar. 12 1. 0 3. 0 9. 0 21. 0	·0891* ·0868* ·0874* ·0886*	Mar. 12 0. 25 2. 39 3. 19 5. 20 7. 0 9. 15 9. 40 14. 3 18. 10 22. 34 23. 59	(†) ·01870 ·01789 ·01730 ·01707 ·01808 ·01850 ·01776 ·01838 ·02085 ·02360 ·02344	Mar. 12 1. 0 3. 0 9. 0 21. 0	46° 0'	46° 3'	Mar. 17 1. 0 3. 0 9. 0 22. 43	21. 23. 37* 22. 14* 8. 15* 19. 15*	Mar. 17 1. 0 3. 0 9. 0 22. 43	·0887* ·0856* ·0868* ·0840*	Mar. 17 0. 57 2. 31 4. 28 8. 12 11. 41 11. 54 12. 22 13. 41 14. 42 21. 30 23. 59	(†) ·02493 ·02403 ·02137 ·01830 ·01764 ·01714 ·01693 ·01755 ·01712 ·02200 ·02237	Mar. 17 1. 0 3. 0 9. 0 22. 43	52° 0' 55° 0' 54° 5' 51° 6'	53° 0' 55° 1' 55° 5' 52° 3'
Mar. 13 1. 0 3. 0 9. 0 21. 0	21. 22. 40* 22. 26* 10. 13* 8. 42*	Mar. 13 1. 0 3. 0 9. 0 21. 0	·0873* ·0876* ·0894* ·0892*	Mar. 13 0. 0 1. 35 4. 15 4. 55 5. 28 6. 29 9. 45 10. 25 12. 26 12. 45 17. 15 19. 28 23. 59	·02344 ·02260 ·01928 ·01900 ·01923 ·01850 ·01830 ·01774 ·01852 ·01809 ·02157 ·02370 ·02560	Mar. 13 1. 0 3. 0 9. 0 21. 0	47° 3'	48° 5'	Mar. 18 8. 45 21. 0	21. 11. 31* 15. 19*	Mar. 18 8. 45 21. 0	·0870* ·0866*	Mar. 18 0. 0 2. 13: 4. 37 8. 30 9. 30 9. 49 15. 31 16. 56 21. 8 23. 59	·02237 ·02328 ·02110 ·01800 ·01830 ·01807 ·02200 ·02362 ·02698 ·02690	Mar. 18 8. 45 21. 0	52° 2' 45° 0'	53° 8' 46° 8'
Mar. 14 1. 0 3. 0 9. 0 21. 0	21. 21. 38* 21. 0* 7. 28* 10. 5*	Mar. 14 1. 0 3. 0 9. 0 21. 0	·0881* ·0864* ·0890* ·0885*	Mar. 14 0. 0 1. 15 6. 16 7. 36 8. 46 10. 28 11. 30 12. 36 13. 4 20. 39 23. 59	·02560 ·02498 ·01910 ·01812 ·01830 ·02090 ·02048 ·01960 ·01994 ·01967 ·02773 ·02650	Mar. 14 0. 0 1. 0 3. 0 9. 0 21. 0	45° 0'	45° 7'	Mar. 19 1. 0 3. 0 9. 0 21. 0	21. 26. 17* 20. 37* 5. 48* 11. 29*	Mar. 19 1. 0 3. 0 9. 0 21. 0	·0865* ·0859* ·0877* ·0876*	Mar. 19 0. 0 1. 11 3. 30 3. 53 5. 39 5. 59 7. 15 9. 37 10. 51 11. 12 11. 39 12. 30 15. 29	·02690 ·02688 ·02408 ·02413 ·02148 ·02150 ·02008 ·01911 ·01920 ·01877 ·01920 ·01920 ·02146	Mar. 19 1. 0 3. 0 9. 0 21. 0	50° 5' 53° 0' 53° 2' 48° 0'	51° 7' 53° 7' 53° 0' 49° 0'

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
				Mar. 19													
				22. 22	02572												
				23. 59	02580												
				Mar. 20													
1. 0	21. 18. 43*	1. 0	0876*	0. 0	02580	1. 0	52. 051. 2										
3. 0	18. 13*	3. 0	0877*	2. 12	02437	3. 0	54. 053. 7										
9. 0	8. 30*	9. 0	0886*	5. 21	02066	9. 0	53. 053. 0										
21. 0	9. 19*	21. 0	0869*	8. 58	01952	21. 0	50. 051. 3										
				12. 40	01994												
				13. 16	02030												
				13. 55	02018												
				15. 46	02138												
				20. 30	02310												
				22. 20	02322												
				23. 59	02228												
				Mar. 21													
1. 0	21. 23. 9†	1. 0	0878*	0. 0	02228	0. 0	52. 352. 8										
3. 0	21. 56*	3. 0	0878*	2. 13	02278	1. 0	53. 053. 0										
9. 0	9. 43*	9. 0	0883*	9. 12	01890	3. 0	54. 854. 3										
21. 0	8. 49*	21. 0	0876*	17. 5	02282	6. 0	54. 054. 0										
				21. 25	02712	9. 0	52. 053. 0										
				23. 59	02627	12. 0	49. 751. 6										
						18. 0	43. 746. 9										
						21. 0	43. 445. 3										
				Mar. 22													
0. 15	(†)	1. 0	0876*	0. 0	02627	1. 0	46. 047. 0										
0. 28	21. 22. 0	3. 0	0867*	1. 54	02570	0. 0	47. 048. 0										
1. 15	21. 45	6. 30	0882	6. 55	02132	3. 0	49. 651. 0										
1. 45	26. 0	6. 46	0884	10. 2	01947	9. 0	49. 851. 0										
2. 7	23. 0	7. 5	0882	16. 7	02312	21. 0	44. 045. 0										
2. 19	22. 10	7. 5	0882	21. 14	02711												
2. 40	24. 50	7. 36	0885	22. 58	02606												
2. 49	23. 30	7. 50	0882	23. 59	02580												
3. 12	24. 15	8. 22	0884														
3. 23	22. 10	8. 40	0894														
3. 54	22. 20	8. 51	0892														
4. 4	20. 15	9. 15	0880														
4. 42	17. 0	9. 32	0909														
4. 51	15. 10	9. 43	0903														
5. 53	16. 10	9. 52	0903														
6. 44	14. 30	10. 10	0878														
6. 55	14. 0	10. 37	0891														
7. 30	14. 45	10. 48	0885														
7. 53	13. 30	11. 20	0894														
8. 11	14. 30	14. 42	0899														
8. 19	13. 40	15. 18	0897														
8. 39	15. 0	16. 7	0903														
9. 9	11. 15	18. 36	0907														
9. 15	17. 30	20. 2	0900														
9. 39	16. 20	***	***														
9. 45	7. 10	22. 0	0871														
9. 55	13. 10	23. 59	0874														
10. 13	13. 25																
10. 40	16. 45																
12. 15	8. 30																
	14. 40																

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
		Mar. 23 h m 23. 49 23. 59	°0870 °0871														
Mar. 24 0. 0 0. 45 1. 44 2. 1 2. 13 2. 22 4. 7 5. 10 6. 52 7. 41 7. 55 8. 14 8. 39 8. 55 10. 7 10. 22 11. 5 11. 29 12. 7 13. 36 14. 0 14. 25 15. 9 19. 12 19. 21 20. 21 21. 30 23. 59	21. 24. 20 24. 5 23. 0 21. 50 22. 0 21. 10 15. 30 14. 20 13. 50 8. 0 10. 0 11. 0 10. 30 11. 45 11. 10 13. 0 12. 50 14. 20 13. 20 9. 30 18. 10 11. 30 10. 20 9. 30 8. 45 10. 30 18. 20	Mar. 24 0. 0 2. 4 2. 37 3. 6 4. 18 5. 43 6. 54 7. 17 8. 20 8. 33 8. 47 9. 6 9. 42 9. 51 11. 50 12. 32 13. 27 13. 53 14. 42 15. 8 19. 8 22. 57 23. 59	°0871 *** °0884 °0881 °0887 °0885 °0882 °0890 °0887 °0899 °0896 °0897 °0890 °0895 °0888 *** °0896 °0891 °0901 °0891 °0907 °0899 *** °0902 °0877 °0880	Mar. 24 0. 0 1. 51 5. 17 9. 12 14. 45 23. 59	°02063 °01972 °01620 °01430 °01482 °01882	Mar. 24 1. 0 3. 0 9. 10 21. 50	47. 3 50. 0 51. 0 44. 0	47. 0 48. 8 49. 7 45. 3									
Mar. 25 0. 0 0. 14 1. 10 3. 36 5. 11 6. 30 6. 44 7. 7 8. 12 9. 25 9. 51 10. 7 10. 29 11. 38 13. 1 17. 55 19. 51 20. 39 21. 15 22. 29 23. 28 23. 59	21. 18. 20 21. 0 22. 40 19. 0 16. 20 15. 40 16. 20 14. 30 14. 10 12. 45 10. 25 10. 50 9. 30 12. 0 13. 45 11. 30 6. 0 5. 40 7. 55 15. 0 23. 0 24. 45	Mar. 25 0. 0 3. 15 4. 10 4. 27 4. 43 5. 9 5. 23 5. 47 6. 10 6. 25 6. 44 6. 52 7. 3 7. 32 7. 45 8. 3 8. 16 8. 45 9. 22 9. 40 10. 28 11. 30	°0880 *** °0891 °0893 °0889 °0892 °0890 °0892 °0885 °0891 °0886 °0894 °0894 °0891 °0897 °0894 °0899 °0895 °0899 °0899 °0897 °0897 °0897 °0896	Mar. 25 0. 0 11. 12 22. 16 23. 59	°01882 °01870 °01430 °01812 °01798	Mar. 25 8. 55 21. 0	48. 7 44. 0	50. 2 46. 0									
Mar. 26 0. 0 0. 30 1. 49 4. 10 7. 0 7. 40 8. 12 9. 28 9. 43 10. 9 10. 32 11. 40 13. 35 15. 13 15. 30 15. 43 16. 5 16. 11 16. 17 16. 31 16. 45 17. 11 17. 16 17. 37 17. 45 17. 59 18. 8 18. 26 18. 40 18. 47 19. 4 19. 12 19. 21 19. 27 19. 41 20. 21 20. 37 20. 58 21. 9 21. 22 21. 43 21. 54 22. 13 22. 20 23. 37	21. 24. 45 25. 40 24. 50 16. 35 12. 30 12. 45 8. 10 10. 0 8. 30 7. 45 11. 0 13. 5 12. 50 (†) 21. 1. 0 20. 59. 30 21. 2. 10 8. 30 7. 30 9. 50 9. 15 11. 25 8. 0 11. 50 9. 45 11. 15 10. 20 10. 55 6. 40 12. 30 10. 40 12. 10 11. 30 16. 55 16. 20 19. 30 10. 0 7. 40 7. 10 8. 30 6. 55 11. 40 11. 0 14. 45 14. 5 *** 18. 40 18. 55 (†)	Mar. 26 0. 0 0. 46 1. 15 2. 14 2. 43 3. 8 3. 51 4. 7 6. 18 6. 37 7. 17 7. 36 7. 50 8. 13 9. 2 9. 42 10. 3 10. 37 12. 43 12. 49 13. 2 13. 40 14. 0 14. 10 14. 43 14. 50 15. 28 15. 42 16. 1 16. 42 16. 50 16. 54 17. 3 17. 17 18. 13 18. 28 18. 40 18. 51 19. 2 20. 6	°0871 *** °0881 °0878 °0887 °0888 °0885 °0888 °0885 *** °0894 °0890 °0889 °0892 °0887 °0887 °0871 °0883 °0883 °0897 *** °0899 °0897 *** °0899 *** °0900 °0908 °0905 °0907 °0903 °0911 *** °0912 °0917 °0911 °0911 °0908 *** °0913	Mar. 26 0. 0 1. 44 5. 40 8. 32 11. 29 14. 39 14. 45 15. 31 20. 21 22. 19 23. 59	°01798 °01677 °01310 °01516 °01544 °01674 °01640 °01775 °02192 °02310 °02270	Mar. 26 1. 0 3. 0 9. 0 21. 0	49. 0 51. 8 51. 2 43. 0	49. 0 51. 0 51. 2 45. 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Mar. 30 18. 21 18. 30 18. 44 20. 6 20. 25 20. 39 22. 0 23. 29 23. 59	21. 12. 45 11. 40 12. 20 9. 15 10. 0 9. 30 12. 20 19. 0 21. 55	Mar. 30 23. 46 23. 59	.0853 *** .0853														
Mar. 31 0. 0 0. 28 0. 42 1. 11 1. 17 2. 9 2. 29 2. 53 3. 2 3. 38 6. 8 6. 30 7. 37 7. 51 10. 8 10. 52 12. 11 12. 29 13. 16 13. 54 14. 9 14. 15 14. 43 15. 15 15. 43 15. 50 16. 21 16. 42 16. 54 17. 15 17. 57 18. 29 19. 11 20. 0 20. 45 21. 4 21. 12 21. 16 21. 30 21. 57 22. 10 23. 59	21. 21. 55 21. 30 23. 0 22. 30 24. 35 23. 40 19. 50 18. 25 18. 40 16. 45 12. 30 12. 20 10. 15 11. 0 13. 10 10. 30 9. 40 13. 40 6. 45 8. 10 9. 50 8. 30 11. 5 18. 30 14. 20 14. 45 10. 50 12. 30 13. 0 11. 45 13. 20 12. 30 9. 20 13. 0 10. 30 11. 45 11. 20 11. 50 11. 20 13. 15 13. 0 19. 30	Mar. 31 0. 0 2. 27 2. 38 2. 47 2. 58 4. 0 4. 47 5. 49 6. 50 8. 36 9. 2 10. 23 10. 40 11. 10 11. 21 11. 33 12. 15 12. 37 12. 44 12. 58 13. 23 13. 30 14. 4 14. 45 15. 10 15. 42 17. 0 19. 15 20. 3 20. 18 21. 2 22. 4 23. 59	.0853 .0864 .0861 .0863 .0861 .0875 .0871 .0878 .0874 .0883 .0881 .0881 .0879 .0881 .0877 .0877 .0888 .0885 .0891 .0890 .0884 .0877 .0878 .0875 .0889 *** .0892 *** .0865 .0864 .0859 .0860 .0851 .0856	Mar. 31 0. 0 3. 5 5. 22 6. 49 10. 58 12. 21 12. 52 15. 15 15. 40 20. 14 23. 59	.01851 .01850 .01772 .01765 {.01890 .01827 .01850 .01832 .01862 .01837 {.01810 .01772 .01776	Mar. 31 1. 0 3. 0 9. 0 22. 20	53.0 55.0 53.9 51.0	52.7 53.8 53.4 51.4	Apr. 1 2. 13 2. 31 3. 14 4. 54 5. 7 5. 17 6. 44 7. 16 9. 50 10. 25 11. 0 12. 43 12. 54 13. 16 13. 45 14. 14 18. 11 19. 44 20. 2 20. 50 21. 38 21. 54 23. 59	21. 19. 50 20. 35 18. 20 15. 20 15. 30 14. 40 14. 25 13. 20 14. 30 13. 45 15. 5 12. 15 12. 40 11. 50 13. 0 11. 40 10. 30 6. 0 7. 0 6. 40 11. 40 11. 40 21. 0	Apr. 1 2. 17 3. 26 3. 40 4. 15 5. 47 6. 5 6. 21 7. 43 8. 0 8. 37 11. 46 13. 36 13. 53 18. 15 20. 3 21. 41 22. 15 23. 43 23. 59	.0867 .0868 .0872 .0869 .0872 .0876 .0874 .0881 .0875 .0881 .0887 .0899 .0894 .0897 .0892 .0869 .0880 .0861 .0864	Apr. 1 19. 36 20. 43 23. 59	.01830 .01720 .01622	Apr. 1 1. 0 3. 0 9. 0 21. 0	50.0 52.0 49.0 43.8	49.3 51.0 50.0 45.3
Apr. 1 0. 0 0. 44 1. 13	21. 19. 30 19. 45 21. 40	Apr. 1 0. 0 1. 3 1. 45	.0856 .0860 .0856	Apr. 1 0. 0 1. 55 9. 30	.01776 .01769 .01422	Apr. 1 8. 0 21. 0	54.0 48.0	53.5 48.0	Apr. 1 18. 17 18. 30 18. 50 19. 11	13. 45 10. 40 16. 0 11. 10	Apr. 1 19. 16 21. 25 21. 38 22. 19	.0895 .0873 .0876 .0857	Apr. 2 0. 0 2. 16 8. 14 11. 3 12. 0 14. 12 16. 49 20. 57 23. 59	.01622 .01597 .01360 .01380 .01344 .01530 .01643 .01650 .01507	Apr. 2 1. 0 3. 0 9. 0 21. 0	50.0 52.0 49.0 43.8	49.3 51.0 50.0 45.3

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Apr. 2 h m 19. 27	21. 10. 30	Apr. 2 h m 22. 50	·0864	h m		h m	o	o	Apr. 3 h m 23. 41	21. 22. 50	h m		h m	h m	o	o	
19. 59	12. 50	23. 15	·0846						23. 50	21. 40							
20. 51	12. 50	23. 39	·0851						23. 59	23. 55							
21. 6	15. 50		(†)						Apr. 4 o. 0	21. 24. 5	Apr. 4 o. 0	·0860	Apr. 4 h m o. 0	Apr. 4 h m o. 0	o. 0	o. 0	
21. 43	14. 25								o. 7	25. 30	o. 16	·0855	1. 28	·02207	o. 0	50. 0	
21. 51	16. 15								o. 27	23. 35	o. 36	·0860	3. 52	·02130	1. 0	51. 9	
21. 56	15. 30								o. 53	24. 50	1. 20	·0850	5. 39	·01748	3. 0	55. 0	
23. 15	27. 10								1. 51	18. 35	2. 0	·0864	8. 0	·01550	6. 0	58. 0	
23. 30	26. 10								2. 15	18. 50	2. 7	·0861	10. 22	·01806	9. 0	56. 0	
23. 39	27. 30								2. 45	15. 40	2. 11	·0864	13. 0	·01848	12. 0	53. 6	
23. 59	25. 0								3. 27	14. 45	2. 40	·0855	21. 12	·01947	18. 0	47. 5	
Apr. 3 o. 0	21. 25. 0	Apr. 3 o. 0	(†)	Apr. 3 h m o. 0	·01507	Apr. 3 h m 1. 0	49. 0	50. 0	4. 10	11. 50	4. 50	·0872	23. 59	·02522	21. 0	47. 5	
1. 4	27. 20	1. 0	·0861*	1. 51	·01447	3. 0	53. 0	53. 8	4. 17	12. 5	12. 0	(†)				51. 0	
1. 40	25. 10	3. 0	·0873*	4. 29	·01007	9. 0	54. 5	54. 8	4. 30	10. 30	17. 40	·0885				52. 8	
1. 44	26. 30	9. 0	·0875*	5. 21	·01195	21. 0	46. 0	47. 0	5. 8	9. 30	10. 50	·0896				55. 0	
1. 58	25. 0	12. 12	·0881	9. 11	·01529				5. 26	10. 50	18. 45	·0884				57. 6	
2. 10	25. 10	15. 47	·0886	11. 14	·01552				6. 9	8. 20	19. 49	·0890				56. 0	
2. 40	20. 40	16. 23	·0881	11. 52	·01570				6. 56	11. 20	21. 7	·0867				56. 3	
3. 21	17. 45	17. 34	·0889	21. 52	·02256				7. 15	10. 30	23. 0	***				54. 8	
3. 51	18. 0	18. 16	·0888	23. 59	·02207				7. 29	11. 30	23. 55	·0851				54. 8	
4. 50	13. 30	18. 30	·0892						7. 55	8. 35	23. 55	·0861				50. 0	
5. 14	12. 20	19. 53	·0881						8. 14	10. 45		(†)				50. 0	
8. 7	13. 30	20. 17	·0883						8. 26	10. 10						51. 0	
8. 40	11. 0	20. 54	·0863						9. 19	12. 20						52. 8	
9. 30	13. 50	21. 22	·0868						9. 58	12. 20						52. 8	
10. 16	11. 20	22. 10	·0862						10. 18	17. 30						57. 6	
10. 28	12. 20	22. 36	·0850						10. 46	13. 0						56. 0	
10. 46	10. 0	23. 8	·0859						15. 59	13. 45						57. 6	
10. 52	11. 15	23. 23	·0854						18. 6	10. 0						56. 3	
11. 12	10. 40	23. 59	·0860						18. 54	9. 40						56. 3	
11. 30	12. 30								19. 14	7. 30						54. 8	
12. 6	11. 0								19. 42	7. 0						56. 0	
13. 55	11. 40								19. 51	5. 30						56. 5	
14. 10	10. 30								20. 30	9. 0						50. 0	
14. 43	13. 10								20. 42	8. 35						50. 5	
14. 58	12. 15								20. 54	10. 30							
15. 28	15. 45								21. 25	10. 0							
16. 0	12. 30								***	***							
17. 58	8. 55								23. 59	19. 30							
18. 10	10. 20								Apr. 5 o. 0	21. 19. 30	Apr. 5 o. 0	(†)	Apr. 5 h m o. 0	Apr. 5 h m o. 0	o. 0	51. 7	
18. 22	7. 30								o. 39	22. 40	o. 25	·0868	2. 15	·02522	1. 0	52. 7	
18. 30	9. 30								1. 38	20. 20	1. 15	·0855	6. 55	·02390	3. 0	54. 8	
19. 11	7. 50								2. 0	21. 0	2. 0	·0865	10. 47	·01847	9. 0	56. 2	
19. 21	5. 0								3. 14	16. 10	3. 7	·0856	14. 10	·01860	22. 30	50. 0	
19. 37	8. 10								4. 59	12. 0	4. 50	·0874	20. 15	·01984		50. 0	
20. 12	6. 20								5. 26	10. 10	5. 25	·0866	23. 59	·02285			
20. 36	8. 30								6. 41	10. 5	***	***		·02338			
21. 2	8. 20								7. 24	11. 30	8. 35	·0878					
21. 55	14. 10								11. 52	13. 0	***	***					
22. 15	18. 30								12. 49	12. 0	13. 30	·0887					
22. 30	17. 5								14. 40	14. 35	13. 56	·0882					
23. 10	22. 30								16. 28	12. 50	14. 35	·0887					
23. 28	20. 30								16. 56	11. 30	16. 0	·0886					
									17. 24	12. 0	18. 45	·0891					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Apr. 5 18. 58 19. 17 19. 28 19. 42 21. 9 21. 28 22. 10 23. 7 23. 20	21. 8. 5 8. 40 10. 10 7. 50 9. 45 11. 40 10. 20 14. 30 17. 0 (†)	Apr. 5 21. 30. 23. 0 23. 59	.0862 .0864 .0862														
Apr. 6 0. 0 1. 10 2. 27 4. 28 6. 19 10. 36 11. 42 11. 58 12. 13 13. 10 16. 59 17. 14 17. 43 17. 55 18. 45 19. 10 19. 53 20. 43 21. 9 21. 29 22. 13 22. 44 22. 54 23. 11 23. 59	21. 20. 55 23. 50 21. 40 14. 40 12. 0 12. 40 16. 0 13. 50 16. 20 12. 20 12. 5 13. 10 12. 30 13. 20 9. 20 9. 50 8. 0 9. 30 12. 50 12. 0 16. 40 16. 50 17. 40 17. 30 20. 10	Apr. 6 0. 0 0. 5 0. 39 1. 0 2. 7 2. 38 3. 20 3. 45 3. 58 4. 30 6. 22 *** 9. 12 *** 11. 15 11. 30 11. 46 12. 7 *** 13. 7 14. 19 16. 15 17. 15 17. 40 18. 0 18. 16 19. 38 20. 52 21. 15 21. 32 22. 35 22. 53 23. 59	.0862 .0865 .0859 .0865 .0867 .0875 .0869 .0872 .0877 .0873 *** .0882 *** .0879 *** .0883 .0890 .0890 .0898 *** .0884 .0880 .0888 .0882 .0888 18. 0 .0884 18. 16 19. 38 .0862 .0861 .0864 .0846 .0850 .0848	Apr. 6 0. 0 2. 39. 7. 42 9. 11 12. 44 21. 14 22. 43 23. 59	.02338 .02355 .01864 .01992 .01970 .02600 .02637 .02572	Apr. 6 7. 10 21. 5	57.0 58.0 51.4 52.8										
Apr. 7 0. 0 0. 43 2. 11 4. 21 5. 54 10. 44 11. 15 13. 45 14. 12	21. 20. 10 22. 35 22. 50 13. 0 12. 0 12. 30 11. 50 11. 50 13. 0	Apr. 7 0. 0 1. 30 2. 13 2. 40 4. 5 4. 41 5. 4 6. 6 6. 20	.0848 .0860 .0866 .0860 .0858 .0862 .0859 .0868 .0865	Apr. 7 0. 0 2. 3 5. 10 6. 4 8. 31 10. 11 10. 49 11. 43	.02572 .02442 .01963 .02008 .02263 .02063 .02056 .02106 .02110	Apr. 7 1. 0 3. 0 9. 0 21. 12	57.0 59.5 61.8 61.0 52.0 52.3										
Apr. 7 14. 54 15. 22 16. 3 16. 30 18. 8 18. 29 18. 50 19. 41 20. 51 22. 20 22. 37 22. 52 23. 59	21. 11. 10 12. 30 12. 0 12. 40 11. 10 8. 20 9. 30 6. 0 5. 40 12. 30 16. 30 16. 45 21. 30	Apr. 7 7. 25 12. 10 14. 31 15. 0 9. 30 16. 30 17. 45. 18. 30 19. 35 21. 45 23. 59	.0870 *** .0870 *** .0878 .0876 .0881 .0880 .0885 .0884 .0875 .0858 .0848														
Apr. 8 0. 0 0. 12 0. 45 2. 0 4. 0 5. 37 11. 9 17. 0 17. 12 17. 18 18. 24 18. 37 19. 27 19. 44 19. 55 20. 16 20. 43 20. 46 21. 21 21. 35 21. 45 21. 54 22. 18 23. 14 23. 37 23. 59	21. 21. 30 23. 0 21. 10 21. 50 16. 30 13. 20 11. 35 13. 30 12. 40 13. 20 12. 5 13. 10 10. 20 9. 25 13. 20 12. 50 13. 40 8. 0 14. 0 12. 20 14. 40 14. 0 21. 55 22. 0 26. 10	Apr. 8 0. 0 0. 22 2. 10 4. 40 4. 54 5. 0 5. 38 7. 7 9. 0 12. 25 13. 30 15. 16. 16. 40 18. 0. 18. 36 20. 30 20. 53 21. 40 22. 4 22. 21 22. 45 23. 35 *** 23. 59	.0848 .0843 .0871 .0882 .0879 .0884 .0876 *** .0886 .0889 *** .0885 .0889 .0888 .0891 .0900 .0907 .0886 .0885 .0860 .0868 .0865 .0868 .0860 *** .0863														
Apr. 9 0. 0 0. 12 0. 30 0. 37 0. 42 0. 59 1. 5 1. 14 1. 26 1. 30 1. 37 1. 42 1. 52 1. 59 2. 10	21. 26. 10 27. 0 26. 30 27. 40 27. 20 31. 55 30. 5 31. 30 29. 10 30. 0 29. 0 30. 5 27. 55 27. 40 31. 20	Apr. 9 0. 0 0. 30 0. 57 1. 6 *** 1. 39 1. 50 2. 7 *** 2. 26 2. 40 2. 50 2. 58 3. 6	.0863 .0873 .0883 .0871 *** .0871 .0867 .0874 .0892 *** .0881 .0902 .0886 .0899 .0893														
Apr. 7 18. 58 19. 17 19. 28 19. 42 21. 9 21. 28 22. 10 23. 7 23. 20	21. 8. 5 8. 40 10. 10 7. 50 9. 45 11. 40 10. 20 14. 30 17. 0 (†)	Apr. 5 21. 30. 23. 0 23. 59	.0862 .0864 .0862														
Apr. 6 0. 0 1. 10 2. 27 4. 28 6. 19 10. 36 11. 42 11. 58 12. 13 13. 10 16. 59 17. 14 17. 43 17. 55 18. 45 19. 10 19. 53 20. 43 21. 9 21. 29 22. 13 22. 44 22. 54 23. 11 23. 59	21. 20. 55 23. 50 21. 40 14. 40 12. 0 12. 40 16. 0 13. 50 16. 20 12. 20 12. 5 13. 10 12. 30 13. 20 9. 20 9. 50 8. 0 9. 30 12. 50 12. 0 16. 40 16. 50 17. 40 17. 30 20. 10	Apr. 6 0. 0 0. 5 0. 39 1. 0 2. 7 2. 38 3. 20 3. 45 3. 58 4. 30 6. 22 *** 9. 12 *** 11. 15 11. 30 11. 46 12. 7 *** 13. 7 14. 19 16. 15 17. 15 17. 40 18. 0 18. 16 19. 38 20. 52 21. 15 21. 32 22. 35 22. 53 23. 59	.0862 .0865 .0859 .0865 .0867 .0875 .0869 .0872 .0877 .0873 *** .0882 *** .0879 *** .0883 .0890 .0890 .0898 *** .0884 .0880 .0888 .0882 .0888 18. 0 .0884 18. 16 19. 38 .0862 .0861 .0864 .0846 .0850 .0848	Apr. 6 0. 0 2. 39. 7. 42 9. 11 12. 44 21. 14 22. 43 23. 59	.02338 .02355 .01864 .01992 .01970 .02600 .02637 .02572	Apr. 6 7. 10 21. 5	57.0 58.0 51.4 52.8										
Apr. 7 0. 0 0. 43 2. 11 4. 21 5. 54 10. 44 11. 15 13. 45 14. 12	21. 20. 10 22. 35 22. 50 13. 0 12. 0 12. 30 11. 50 11. 50 13. 0	Apr. 7 0. 0 1. 30 2. 13 2. 40 4. 5 4. 41 5. 4 6. 6 6. 20	.0848 .0860 .0866 .0860 .0858 .0862 .0859 .0868 .0865	Apr. 7 0. 0 2. 3 5. 10 6. 4 8. 31 10. 11 10. 49 11. 43	.02572 .02442 .01963 .02008 .02263 .02063 .02056 .02106 .02110	Apr. 7 1. 0 3. 0 9. 0 21. 12	57.0 59.5 61.8 61.0 52.0 52.3										
Apr. 7 14. 54 15. 22 16. 3 16. 30 18. 8 18. 29 18. 50 19. 41 20. 51 22. 20 22. 37 22. 52 23. 59	21. 11. 10 12. 30 12. 0 12. 40 11. 10 8. 20 9. 30 6. 0 5. 40 12. 30 16. 30 16. 45 21. 30	Apr. 7 7. 25 12. 10 14. 31 15. 0 9. 30 16. 30 17. 45. 18. 30 19. 35 21. 45 23. 59	.0870 *** .0870 *** .0878 .0876 .0881 .0880 .0885 .0884 .0875 .0858 .0848														
Apr. 8 0. 0 0. 12 0. 45 2. 0 4. 0 5. 37 11. 9 17. 0 17. 12 17. 18 18. 24 18. 37 19. 27 19. 44 19. 55 20. 16 20. 43 20. 46 21. 21 21. 35 21. 45 21. 54 22. 18 23. 14 23. 37 23. 59	21. 21. 30 23. 0 21. 10 21. 50 16. 30 13. 20 11. 35 13. 30 12. 40 13. 20 12. 5 13. 10 10. 20 9. 25 13. 20 12. 50 13. 40 8. 0 14. 0 12. 20 14. 40 14. 0 21. 55 22. 0 26. 10	Apr. 8 0. 0 0. 22 2. 10 4. 40 4. 54 5. 0 5. 38 7. 7 9. 0 12. 25 13. 30 15. 16. 16. 40 18. 0. 18. 36 20. 30 20. 53 21. 40 22. 4 22. 21 22. 45 23. 35 *** 23. 59	.0848 .0843 .0871 .0882 .0879 .0884 .0876 *** .0886 .0889 *** .0885 .0889 .0888 .0891 .0900 .0907 .0886 .0885 .0860 .0868 .0865 .0868 .0860 *** .0863														
Apr. 9 0. 0 0. 12 0. 30 0. 37 0. 42 0. 59 1. 5 1. 14 1. 26 1. 30 1. 37 1. 42 1. 52 1. 59 2. 10	21. 26. 10 27. 0 26. 30 27. 40 27. 20 31. 55 30. 5 31. 30 29. 10 30. 0 29. 0 30. 5 27. 55 27. 40 31. 20	Apr. 9 0. 0 0. 30 0. 57 1. 6 *** 1. 39 1. 50 2. 7 *** 2. 26 2. 40 2. 50 2. 58 3. 6	.0863 .0873 .0883 .0871 *** .0871 .0867 .0874 .0892 *** .0881 .0902 .0886 .0899 .0893														

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermo-meters.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermo-meters.	
							Of H. F. Magnet.	Of V. F. Magnet.								Of H. F. Magnet.	Of V. F. Magnet.
Apr. 9		Apr. 9		Apr. 9					Apr. 9		Apr. 9				Apr. 9		
2. 27	21. 30. 0	3. 9	0897	13. 13	01500				13. 20	21. 9. 0	15. 10	0882					
2. 44	37. 40	3. 17	0882	14. 14	01497				13. 44	3. 30	15. 24	0883					
2. 49	36. 40	3. 20	0866	15. 41	01590				14. 0	4. 20		***					
3. 0	38. 0	3. 28	0882	18. 31	01922				14. 14	3. 10	15. 58	0857					
3. 15	29. 0	3. 33	0858	22. 11	01600				14. 41	15. 50	16. 15	0854					
3. 20	32. 45	3. 42	0850	23. 59	01552				14. 47	15. 0	16. 35	0880					
3. 29	28. 0	4. 4	0882							***	16. 47	0872					
3. 46	23. 20	4. 7	0868						15. 12	15. 0	17. 10	0866					
3. 56	27. 0	4. 21	0886						15. 18	11. 30		***					
4. 11	27. 20	4. 28	0878						15. 38	13. 50	18. 19	0869					
4. 16	33. 0	5. 1	0918						15. 57	10. 40	18. 30	0864					
4. 29	30. 0	5. 20	0889						16. 40	15. 50	18. 33	0868					
4. 43	33. 10	5. 36	0919						17. 2	12. 30	18. 46	0866					
4. 59	29. 0	5. 58	0882							***	18. 55	0858					
5. 1	29. 50	6. 6	0891						18. 9	11. 0		***					
5. 16	21. 0	6. 20	0859						18. 42	16. 0	20. 23	0852					
5. 22	21. 20	6. 24	0863						19. 4	13. 0	20. 53	0830					
5. 28	20. 30	6. 33	0856						19. 20	15. 0	20. 59	0835					
5. 49	27. 5		***						19. 30	13. 0	21. 5	0834					
5. 59	23. 30	7. 2	0872						20. 25	12. 5	21. 47	0838					
6. 2	22. 30	7. 10	0864						20. 50	15. 40	22. 2	0827					
6. 11	28. 50	7. 16	0868						20. 54	14. 30	22. 8	0836					
6. 26	18. 20		***						20. 58	16. 20	22. 15	0827					
6. 30	22. 10	7. 30	0858						21. 10	17. 0	22. 25	0824					
6. 53	12. 0	7. 52	0870						21. 24	14. 30	22. 34	0832					
7. 7	9. 50	8. 7	0897						22. 0	17. 20		***					
7. 14	12. 10	8. 15	0870						22. 12	20. 0	23. 10	0842					
7. 21	11. 20	8. 21	0875						22. 25	20. 0	23. 59	0849					
7. 26	11. 50	8. 36	0831						23. 29	24. 0							
7. 37	10. 0	8. 46	0845						23. 59	22. 0							
7. 40	10. 30	8. 52	0842														
7. 59	6. 20	9. 5	0867						Apr. 10		Apr. 10		Apr. 10		Apr. 10		
8. 14	23. 0	9. 8	0853						0. 0	21. 22. 0	0. 0	0850	0. 0		1. 0	49. 0	49. 4
8. 22	18. 30	9. 11	0856						0. 16	22. 50		***	2. 7		3. 0	52. 3	52. 7
8. 30	25. 30	9. 38	0855						0. 40	21. 10	2. 25	0886	8. 17		9. 0	52. 0	52. 4
8. 53	21. 9. 50	9. 51	0828						0. 54	22. 30	2. 55	0872	9. 45		21. 0	43. 0	45. 0
9. 10	20. 55. 40	10. 5	0854						1. 15	22. 50		***	10. 52				
9. 20	21. 5. 30	10. 14	0814						1. 50	18. 30	3. 30	0880	15. 12				
9. 28	2. 10	10. 50	0846						1. 54	19. 20	3. 40	0872	21. 15				
9. 41	10. 0	10. 54	0837						2. 11	17. 10	3. 52	0876	23. 59				
9. 48	5. 20	11. 18	0888						2. 29	17. 55	4. 16	0868					
9. 58	9. 10	11. 30	0898						2. 44	15. 15	4. 35	0874					
10. 10	4. 0	11. 55	0864						3. 30	15. 20		***					
10. 16	25. 40	12. 10	0875						3. 43	14. 35	5. 9	0905					
11. 0	21. 8. 20		***						4. 12	15. 0	5. 23	0905					
11. 24	20. 49. 30	12. 24	0871						4. 30	13. 40	5. 36	0881					
11. 30	57. 15	12. 30	0879						5. 9	6. 40	5. 59	0906					
11. 37	20. 55. 30	12. 38	0858						5. 30	12. 30	6. 9	0894					
11. 54	21. 6. 0	12. 44	0866						5. 50	6. 0		***					
12. 0	21. 3. 55	12. 50	0856						6. 9	11. 30	6. 36	0893					
12. 14	20. 57. 30	13. 8	0864						6. 33	12. 30	6. 50	0883					
12. 20	56. 0	13. 12	0858						7. 0	9. 45	7. 30	0878					
12. 25	58. 50	13. 25	0865						7. 21	12. 20	7. 40	0897					
12. 41	20. 59. 0	13. 32	0860						7. 40	6. 30	7. 51	0893					
12. 51	21. 3. 0	13. 40	0865						7. 49	11. 40	8. 5	0906					
12. 55	2. 35	13. 51	0854						7. 57	9. 0	8. 25	0883					
13. 0	5. 20	14. 16	0842						8. 16	16. 0		***					
13. 10	3. 10	14. 35	0840						8. 36	12. 0	9. 16	0898					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol †; attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.	
Apr. 10		Apr. 10							Apr. 11		Apr. 11							
9. 14	21. 13. 40	9. 43	·0887	h	h	h	h	o	o	Apr. 11	9. 14	21. 2. 5	8. 57	·0886	h	h	o	o
9. 25	15. 40	10. 5	·0878							10. 49	21. 2. 5	8. 57	·0886					
9. 43	14. 0	10. 37	·0900							11. 11	7. 35	9. 22	·0880					
9. 50	14. 45	11. 6	·0886							11. 26	6. 0	9. 51	·0887					
10. 13	10. 5	.	***							11. 41	8. 0	10. 8	·0919					
10. 30	10. 0	12. 0	·0881							11. 48	7. 10	10. 39	·0873					
10. 46	13. 40	13. 0	·0888							11. 58	9. 30	11. 0	·0905					
11. 27	10. 15	10. 15	***							12. 0	9. 0	11. 43	·0875					
11. 54	11. 40	14. 15	·0884							12. 7	10. 0	11. 55	·0880					
12. 15	10. 20	15. 0	·0894							12. 18	5. 45	12. 20	·0882					
12. 49	12. 35	16. 5	·0889							12. 45	11. 0	12. 53	·0908					
12. 55	12. 20	16. 24	·0894							12. 50	10. 0	13. 12	·0894					
13. 34	16. 30	16. 30	***							13. 2	13. 10	13. 35	·0895					
14. 4	14. 30	18. 10	·0888							13. 41	3. 0		***					
15. 1	12. 0	19. 7	·0893							13. 51	3. 20	14. 7	·0884					
15. 43	12. 20	21. 2	·0886							13. 54	2. 50	14. 16	·0882					
17. 7	9. 30	21. 25	·0876							14. 15	13. 5	14. 55	·0900					
17. 14	10. 10	21. 25	·0876							14. 28	10. 10	15. 8	·0894					
18. 7	11. 0	21. 46	·0875							14. 41	10. 50	15. 33	·0891					
18. 39	9. 20	22. 1	·0863							14. 50	9. 20	16. 5	·0898					
19. 9	11. 30	22. 25	·0852							15. 8	10. 20	16. 37	·0900					
19. 30	9. 0	22. 55	·0856							15. 43	6. 10	16. 58	·0892					
20. 10	7. 55	23. 10	·0866							15. 56	7. 10	17. 50	·0901					
20. 30	11. 0		(†)							16. 1	6. 40	18. 1	·0895					
20. 52	8. 0									16. 12	7. 10	18. 25	·0897					
21. 22	11. 30									16. 29	6. 20	18. 54	·0894					
21. 37	11. 0									17. 25	11. 0	20. 11	·0906					
23. 37	16. 20									17. 48	8. 40	22. 15	·0871					
23. 46	15. 30									17. 58	10. 0	***	***					
23. 59	16. 30									18. 11	7. 40	23. 15	·0867					
										18. 25	7. 0	23. 35	·0859					
										18. 54	8. 45	23. 54	·0866					
										19. 4	8. 0	23. 59	·0863					
Apr. 11		Apr. 11	(†)	Apr. 11		Apr. 11				19. 18	10. 15							
0. 0	21. 16. 30	0. 15	·0872	0. 0	·01358	0. 0	45. 7	46. 8		19. 18	10. 15							
0. 12	16. 30	1. 7	·0878	3. 44	·01122	1. 0	47. 0	48. 0		19. 40	8. 30							
1. 13	20. 30	1. 30	·0873	8. 27	·00721	3. 0	49. 0	50. 0		20. 13	10. 0							
1. 50	18. 40	1. 47	·0875	9. 30	·00717	6. 0	51. 5	52. 2		20. 59	7. 45							
2. 3	18. 40	2. 0	·0883	10. 40	·00600	9. 0	51. 5	51. 5			***							
2. 15	20. 10	2. 18	·0885	11. 4	·00643	12. 0	50. 5	51. 0		22. 21	11. 30							
2. 46	17. 30	2. 51	·0899	13. 19	·00644	18. 0	47. 0	48. 0		23. 11	16. 45							
3. 35	17. 55	3. 22	·0905	16. 54	·00783	21. 0	46. 5	48. 3		23. 27	15. 15							
5. 39	13. 40	4. 25	·0901	20. 12	·00947					23. 59	17. 10							
5. 51	12. 50	5. 7	·0906	21. 59	·00988													
6. 2	13. 30	5. 36	·0904	23. 59	·00929					Apr. 12		Apr. 12		Apr. 12		Apr. 12		
6. 40	13. 5	6. 3	·0900							0. 0	21. 17. 10	0. 0	·0863	0. 0	·00929	0. 0	49. 8	50. 3
6. 51	10. 40	6. 13	·0901							0. 13	17. 50	1. 24	·0858	3. 15	·00707	1. 0	51. 4	51. 3
7. 6	11. 35	6. 25	·0898							0. 25	16. 55	2. 25	·0886	5. 42	·00970	3. 0	53. 8	53. 5
7. 15	10. 30	6. 42	·0904							0. 52	20. 0	3. 23	·0895	8. 43	·01113	9. 3	53. 7	53. 8
7. 20	11. 30	7. 1	·0908							1. 55	20. 40	3. 45	·0888	10. 27	·01067	21. 0	46. 6	48. 3
7. 43	6. 5	7. 23	·0911							2. 19	18. 10	4. 13	·0896	11. 59	·01075			
8. 0	8. 45	7. 32	·0910							2. 30	19. 0	4. 25	·0918	12. 43	·00950			
8. 17	5. 50	7. 40	·0913							3. 7	17. 30	4. 50	·0920	13. 22	·01044			
8. 26	8. 10	8. 7	·0899							3. 28	19. 10	5. 6	·0902	16. 10	·01327			
8. 53	3. 10	8. 16	·0901							3. 43	17. 0	5. 17	·0905	20. 10	·01500			
9. 28	7. 10	8. 40	·0885							3. 54	17. 10	6. 40	·0884	22. 45	·01717			
9. 40	7. 30									4. 15	13. 20			23. 59	·01648			
9. 57	11. 20									4. 24	13. 45							
10. 6	7. 0									4. 39	12. 20							
10. 29	17. 20									4. 54	14. 0							

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Apr. 12		Apr. 12							Apr. 13		Apr. 13		Apr. 13				
5. 13	21. 9. 50	7. 0	.0888						2. 2	21. 21. 0	3. 15	.0870	11. 0	.01095			
5. 34	13. 20	7. 31	.0884						2. 25	22. 20	3. 25	.0867	12. 5	.01107			
5. 51	12. 30	7. 55	.0893						2. 43	20. 30	3. 55	.0890	12. 45	.01150			
5. 58	12. 40	8. 14	.0877						2. 53	22. 30	4. 46	.0891	13. 21	.01143			
6. 13	10. 40	8. 25	.0881						3. 15	20. 0	5. 26	.0896	13. 37	.01070			
6. 45	11. 40	8. 40	.0874						3. 39	19. 0	5. 49	.0881	15. 11	.01252			
7. 11	13. 10	9. 21	.0894						3. 59	14. 30	6. 10	.0896	15. 19	.01222			
7. 29	11. 50	9. 29	.0893						4. 43	13. 40	6. 27	.0910	15. 29	.01247			
7. 45	11. 50	9. 50	.0906						5. 0	16. 10	6. 36	.0907	16. 5	.01094			
8. 7	18. 10	10. 0	.0905						5. 46	14. 50	6. 43	.0892	16. 11	.01111			
8. 22	15. 20	10. 15	.0896						5. 56	11. 50	6. 54	.0908	16. 22	.01069			
8. 30	16. 15	10. 27	.0899						6. 13	13. 20	7. 8	.0891	16. 57	.01152			
9. 13	7. 5	10. 52	.0890						6. 44	11. 20	7. 24	.0884	19. 16	.01679			
9. 28	9. 30	11. 10	.0897						6. 57	4. 50	7. 45	.0895	21. 19	.01905			
9. 31	8. 15	11. 28	.0881						7. 5	7. 50	8. 8	.0881	23. 15	.01830			
10. 11	13. 25	11. 57	.0870						7. 13	5. 10	8. 30	.0888	23. 32	.01758			
10. 41	10. 50	12. 9	.0882						7. 27	6. 0	8. 51	.0868	23. 48	.01749			
10. 58	7. 20	12. 15	.0878						7. 41	3. 50	9. 16	.0882		(†)			
11. 10	21. 8. 0	12. 21	.0882						8. 10	11. 20	9. 21	.0880					
11. 44	20. 58. 10	12. 30	.0876						8. 23	9. 0	9. 35	.0900					
11. 49	21. 0. 10	12. 38	.0878						8. 44	12. 0	10. 0	.0862					
12. 6	20. 59. 0	12. 50	.0862						9. 12	6. 30	10. 9	.0850					
	(†)	13. 11	.0892						9. 30	10. 30	10. 30	.0906					
13. 7	21. 1. 50	13. 25	.0869						9. 40	9. 0	10. 53	.0872					
13. 25	0. 20	13. 48	.0886						9. 47	14. 30		***					
13. 42	21. 5. 40	14. 22	.0880						10. 0	21. 17. 0	11. 26	.0890					
14. 6	20. 53. 20	14. 40	.0886						10. 30	20. 50. 0	11. 41	.0890					
15. 5	21. 8. 30		***						10. 44	21. 8. 0	11. 52	.0878					
15. 29	8. 40	15. 40	.0883						10. 51	10. 10	12. 15	.0870					
15. 40	7. 40	16. 7	.0890						11. 6	5. 30	12. 51	.0874					
16. 11	11. 10	16. 34	.0888						11. 25	3. 20	13. 25	.0866					
16. 38	11. 50		***						11. 31	5. 25	13. 41	.0888					
16. 57	11. 0	17. 5	.0878						11. 50	4. 50	14. 0	.0874					
17. 18	12. 20		***						11. 58	3. 5	14. 8	.0874					
17. 42	11. 0	18. 51	.0896						12. 26	2. 20	14. 14	.0862					
18. 27	19. 20		***						12. 44	5. 0	14. 39	.0876					
18. 43	16. 30	19. 47	.0880						13. 0	4. 30	14. 50	.0876					
18. 57	14. 30	19. 59	.0882						13. 27	15. 30	15. 11	.0898					
19. 37	14. 20	20. 20	.0863						14. 15	6. 30	15. 24	.0881					
20. 13	10. 40		(†)						14. 39	4. 20	15. 34	.0900					
20. 30	12. 30	21. 0	.0868*						14. 42	21. 5. 10	15. 55	.0833					
20. 44	11. 30								15. 6	20. 58. 40	16. 10	.0890					
20. 59	13. 25								15. 10	21. 6. 0	16. 20	.0878					
21. 30	13. 0								15. 39	20. 53. 55	16. 34	.0912					
22. 52	14. 50								15. 42	57. 0	16. 51	.0931					
23. 26	17. 20								15. 44	20. 56. 30	17. 11	.0867					
23. 45	21. 30								15. 55	21. 11. 0	17. 31	.0900					
23. 55	21. 30								16. 0	10. 20	18. 15	.0871					
23. 59	21. 10								16. 10	13. 10		***					
									16. 29	0. 30	18. 50	.0864					
									16. 42	20. 45		***					
Apr. 13		Apr. 13	(†)	Apr. 13	Apr. 13				16. 47	20. 5	19. 20	.0869					
0. 0	21. 21. 10	0. 3	.0852	0. 0	.01648	1. 0	51.3	51.8	16. 51	22. 30	19. 48	.0860					
0. 14	18. 55	1. 48	.0866	4. 18	.01408	3. 0	53.3	53.8	16. 57	20. 0	20. 3	.0866					
0. 51	19. 35	2. 15	.0878	8. 45	.01145	9. 0	54.0	54.0	17. 0	20. 45		***					
0. 59	20. 55	2. 38	.0872	9. 41	.01152	21. 0	44.8	47.0	17. 28	8. 40	20. 30	.0854					
1. 6	19. 45	2. 46	.0880	9. 56	.01102				17. 35	10. 30	21. 15	.0852					
1. 13	21. 30	3. 5	.0864	10. 16	.01090				17. 39	10. 10	21. 27	.0845					
1. 48	21. 40			10. 30	.01132												

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.	
Apr. 13		Apr. 13								Apr. 14								
17. 45	21. 14. 0	21. 35	·0823	h	n	h	n	o	o	7. 27	21. 10. 0	7. 48	·0907	h	n	h	n	
17. 54	9. 50	21. 55	·0838							7. 39	12. 10	7. 52	·0909					
18. 0	15. 5	22. 10	·0834							7. 45	10. 30	8. 0	·0903					
18. 12	14. 55	22. 40	·0843							8. 19	10. 20	8. 10	·0905					
18. 21	12. 30	22. 55	·0836							8. 42	13. 10	8. 21	·0898					
18. 29	14. 20	23. 5	·0842							8. 54	12. 50		***					
18. 38	11. 10	23. 17	·0820							9. 4	13. 35	8. 36	·0903					
18. 44	14. 0	23. 34	·0838							9. 30	12. 40	8. 45	·0900					
19. 16	12. 45	23. 39	·0831							10. 2	16. 30		***					
19. 27	13. 50	23. 59	·0850							10. 36	14. 50	9. 0	·0906					
19. 47	14. 0									10. 45	16. 50	9. 10	·0901					
19. 54	12. 50									11. 6	16. 20	9. 17	·0904					
20. 0	14. 30									11. 27	14. 0	9. 36	·0891					
20. 6	13. 10									11. 44	13. 45	9. 51	·0896					
20. 11	15. 0									12. 31	11. 30		***					
20. 14	13. 15										(†)	11. 0	·0884					
20. 19	14. 50									14. 14	13. 20	11. 15	·0887					
20. 23	13. 55									14. 37	15. 5	11. 36	·0885					
20. 29	14. 50									14. 52	14. 40	13. 0	·0899					
21. 28	15. 40									15. 5	16. 25	13. 32	·0884					
21. 39	8. 0									15. 54	11. 0	13. 51	·0899					
21. 58	18. 30									16. 11	11. 10	14. 10	·0883					
	***									16. 45	14. 30	14. 56	·0895					
22. 30	17. 30									17. 21	13. 45	15. 17	·0890					
22. 52	19. 0									18. 11	9. 50	15. 33	·0892					
23. 11	17. 0									18. 31	9. 50	16. 24	·0881					
23. 15	18. 5									18. 50	7. 30	16. 53	·0884					
23. 23	16. 0									18. 55	8. 0	17. 22	·0895					
23. 29	20. 10									19. 2	7. 0		***					
	***									19. 13	8. 0	18. 4	·0888					
23. 50	19. 50									19. 26	6. 30	18. 27	·0893					
23. 59	20. 55									19. 54	8. 40		***					
Apr. 14		Apr. 14		Apr. 14	(†)	Apr. 14				20. 18	7. 30	19. 38	·0885					
0. 0	21. 20. 55	0. 0	·0850			1. 0	48. 8	49. 0		21. 12	13. 20		***					
0. 15	20. 0		(†)	0. 23	·01772	3. 0	51. 3	51. 7		22. 11	13. 40	20. 0	·0871					
0. 19	20. 30	1. 0	·0868*	5. 55	·01428	9. 0	49. 4	51. 0		23. 1	18. 0		***					
0. 39	18. 0	2. 30	·0854	6. 43	·01440	21. 5	46. 0	48. 0		23. 20	21. 10	20. 52	·0865					
2. 14	17. 0	2. 53	·0866	8. 45	·01372					23. 59	23. 30		***					
2. 20	17. 50	3. 0	·0862	14. 56	·01470							22. 47	·0863					
2. 30	15. 0	3. 15	·0872	19. 24	·01752							23. 30	·0861					
2. 37	15. 30	3. 22	·0881	23. 59	·01546							23. 59	·0856					
2. 42	14. 50	3. 30	·0871							Apr. 15		Apr. 15		Apr. 15				
2. 51	16. 0	3. 37	·0876							0. 0	21. 23. 30	0. 0	·0855	0. 0	·01546	6. 45	55. 0	55. 3
3. 9	14. 0	3. 50	·0890							0. 15	22. 30	0. 20	·0851	1. 39	·01478	21. 0	50. 3	52. 7
3. 21	10. 45		***							1. 3	24. 0	1. 17	·0871	6. 4	·01025			
3. 39	12. 0	4. 15	·0881							2. 36	18. 45	2. 38	·0875	8. 52	·00867			
3. 54	10. 25	4. 26	·0892							3. 12	18. 0	3. 15	·0882	13. 11	·00840			
4. 21	12. 15	4. 32	·0883							3. 24	16. 30	3. 40	·0879	15. 17	·00884			
5. 0	11. 30	4. 40	·0890							3. 51	16. 0	4. 10	·0882	16. 44	·00865			
5. 21	12. 30	5. 3	·0900							4. 41	11. 20	4. 33	·0878	18. 7	·00970			
5. 58	7. 0	5. 42	·0885							7. 13	12. 40	5. 7	·0903	22. 50	·01144			
6. 11	7. 30	6. 15	·0893							7. 28	11. 45	5. 30	·0891	23. 59	·01122			
6. 28	4. 0		***							7. 46	12. 0	5. 50	·0886					
6. 43	10. 0	6. 45	·0883							8. 19	10. 20		***					
6. 54	10. 25	7. 4	·0904							8. 43	13. 30	8. 26	·0890					
7. 11	9. 30	7. 13	·0900							8. 56	7. 30	8. 40	·0893					
7. 19	10. 20	7. 36	·0922							9. 5	8. 0	8. 52	·0883					

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermo-meters.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermo-meters.	
							Of H. F. Magnet.	Of V. F. Magnet.								Of H. F. Magnet.	Of V. F. Magnet.
Apr. 15		Apr. 15							Apr. 16		Apr. 16						
9. 21	21. 6. 35	9. 7	.0890						7. 27	21. 11. 15	9. 25	.0867					
9. 37	7. 40	9. 24	.0885						7. 55	10. 30	9. 33	.0879					
9. 46	7. 0	9. 40	.0892						8. 21	11. 20	9. 45	.0870					
11. 15	8. 0		***						8. 36	10. 10	9. 51	.0872					
11. 40	10. 0	10. 22	.0883						8. 58	9. 0	10. 2	.0867					
12. 16	11. 20		***						9. 15	12. 0	10. 30	.0875					
12. 47	13. 40	11. 17	.0883						9. 46	8. 30	10. 45	.0871					
12. 59	13. 5	11. 33	.0881						9. 53	10. 20		***					
13. 21	14. 40	11. 45	.0884						10. 11	7. 10	11. 20	.0875					
14. 28	13. 45	12. 3	.0882						10. 58	12. 20	11. 45	.0874					
15. 6	10. 30	12. 30	.0885						11. 52	13. 5	12. 6	.0877					
15. 26	15. 10	12. 50	.0893						12. 3	12. 30	12. 24	.0877					
15. 45	12. 35	13. 21	.0886						13. 12	12. 30		***					
16. 11	15. 45	13. 52	.0894						13. 29	11. 30	14. 17	.0885					
17. 13	7. 30	14. 17	.0892						13. 32	12. 30	14. 46	.0879					
	***	14. 47	.0896						13. 46	11. 30	15. 20	.0877					
19. 14	9. 30	15. 21	.0895						14. 11	11. 50	15. 46	.0883					
19. 43	8. 20	15. 46	.0887						14. 22	10. 50	16. 36	.0884					
19. 51	10. 20	16. 3	.0892						15. 28	12. 0	17. 15	.0889					
20. 10	9. 40	16. 37	.0891						15. 53	10. 45	17. 40	.0889					
20. 14	11. 30	16. 51	.0887						16. 30	13. 20	18. 10	.0883					
20. 29	11. 20	17. 38	.0894						17. 26	10. 50	18. 22	.0886					
20. 44	13. 0	18. 43	.0893						17. 53	6. 20	18. 43	.0883					
21. 13	11. 30	19. 23	.0877						18. 28	10. 45	19. 3	.0874					
23. 59	23. 0	19. 45	.0874						19. 2	7. 0	19. 34	.0877					
		20. 0	.0877						19. 30	10. 40	20. 13	.0866					
		20. 22	.0868						20. 10	8. 20	20. 24	.0868					
		20. 40	.0871						20. 52	10. 0	20. 53	.0866					
		21. 17	.0864						21. 13	12. 20		***					
		21. 33	.0865						21. 52	13. 40	22. 2	.0848					
		22. 10	.0854						23. 0	18. 40		***					
		22. 26	.0855						23. 59	18. 30	22. 50	.0851					
		22. 40	.0860								23. 10	.0857					
		22. 51	.0860								23. 59	.0851					

		23. 20	.0854														
		23. 43	.0852														
		23. 59	.0859														
Apr. 16		Apr. 16		Apr. 16		Apr. 16			Apr. 17		Apr. 17		Apr. 17		Apr. 17		
0. 0	21. 23. 0	0. 0	.0859	0. 0	.01122	1. 0	53.0	54.0	0. 0	21. 18. 30	0. 0	.0851	0. 0	.01888	1. 0	54.8	55.0
0. 36	24. 45		***	1. 51	.01078	3. 0	57.0	57.7		19. 30	0. 56	***	0. 56	.01832	3. 0	58.0	58.0
0. 57	25. 15	2. 13	.0869	4. 52	.00790	9. 0	58.3	58.5	3. 35	14. 30	2. 50	.0868	6. 27	.01111	9. 0	58.3	57.8
1. 7	24. 30	2. 36	.0879	8. 41	.01192	21. 0	49.0	50.0	5. 4	11. 30	3. 4	.0873	8. 27	.01288	21. 0	49.0	50.0
1. 28	25. 0		***	9. 45	.01165				7. 2	10. 20	3. 22	.0868	11. 42	.01366			
2. 48	20. 5	3. 37	.0870	14. 10	.01405				9. 28	11. 30		***	20. 5	.02100			
3. 5	20. 0	3. 46	.0866	20. 59	.02085				9. 43	10. 20	4. 28	.0870	21. 28	.02167			
3. 40	17. 30	4. 30	.0886	23. 59	.01888				9. 59	10. 20	4. 47	.0875	23. 59	.01997			
3. 58	18. 30	4. 36	.0884						10. 13	9. 0	5. 18	.0875					
4. 22	15. 30	4. 49	.0900						10. 24	9. 30	5. 52	.0880					
4. 30	11. 30	5. 7	.0910						10. 57	5. 50	6. 39	.0875					
4. 40	13. 45	5. 50	.0881						11. 32	6. 10	6. 45	.0868					
4. 46	11. 10	6. 56	.0870						11. 54	8. 0	7. 7	.0869					
4. 58	13. 25	7. 47	.0866						12. 7	10. 50	7. 36	.0874					
5. 10	12. 55	8. 17	.0869						12. 17	9. 50	9. 0	.0872					
5. 20	13. 30	8. 40	.0864						12. 39	10. 15	9. 30	.0875					
5. 45	13. 0	8. 52	.0864						12. 55	8. 50	9. 50	.0872					
6. 22	10. 30	9. 10	.0876						14. 43	11. 10	10. 10	.0878					
									15. 22	9. 15	10. 28	.0882					
									16. 36	11. 10	10. 53	.0881					
									18. 0	10. 10	11. 6	.0883					
									18. 40	5. 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.		
Apr. 17 19. 11	21. 6. 55	Apr. 17 11. 28	.0876	h		h	o	o			Apr. 18 21. 4	.0893 ***	h		h	o	o		
19. 42	10. 10	11. 38	.0878								22. 9	.0869							
20. 43	8. 0	11. 54	.0871								22. 50	.0877							
22. 42	14. 0	12. 38	.0887								23. 10	.0870							
23. 2	17. 10	12. 51	.0882								23. 59	.0878							
23. 14	16. 20		***																
23. 37	17. 20	17. 38	.0895																
23. 59	17. 0	18. 51	.0891								Apr. 19 1. 0	.0879	Apr. 19 1. 0	.01674*	Apr. 19 0. 0	49. 0	49. 7		
		19. 38	.0879								3. 0	.0881*	3. 0	.01607*	1. 0	49. 3	50. 0		
		20. 10	.0881								9. 0	.0896*	9. 0	.01457*	3. 0	51. 4	51. 8		
		22. 42	.0863								21. 0	.0901*	21. 0	.01518*	9. 0	50. 0	51. 8		
		22. 51	.0863									.0880*			21. 0	46. 0	47. 0		
		23. 2	.0870								Apr. 20 0. 12	(†)	Apr. 20 0. 15	(†)	Apr. 20 1. 0	50. 3	51. 0		
		23. 20	.0858								0. 41	21. 21. 50	0. 38	.0871	3. 0	53. 0	53. 0		
		23. 36	.0861								2. 17	26. 0	1. 40	.0877	9. 0	54. 0	53. 7		
		23. 59	.0859								2. 29	25. 45	3. 20	***	21. 0	44. 8	46. 3		
Apr. 18 0. 0	21. 17. 0	Apr. 18 0. 0	.0859	Apr. 18 0. 0	.01997	Apr. 18 0. 0	53. 2	53. 8			2. 50	24. 55	4. 0	.0891	23. 59	.01267			
0. 40	19. 30	0. 40	.0872	1. 41	.01865	1. 0	55. 0	55. 1			3. 37	17. 40	4. 26	.0897					
0. 55	17. 35	0. 52	.0864	4. 41	.01447	3. 0	59. 0	58. 4			4. 0	17. 0	4. 45	.0896					
1. 47	22. 0	1. 10	.0870	6. 42	.01285	6. 0	59. 0	58. 0			4. 26	18. 35	5. 7	.0899					
2. 29	16. 50	1. 28	.0870	8. 57	.01300	9. 16	56. 0	56. 3			4. 58	17. 30	6. 15	.0888					
3. 5	19. 5	1. 50	.0880	9. 52	.01354	12. 0	53. 2	54. 0			5. 28	15. 25	6. 38	.0896					
	***	2. 2	.0880	11. 44	.01347	18. 0	46. 8	49. 3			6. 7	14. 0	6. 53	.0892					
4. 13	15. 30	2. 28	.0859	19. 57	.01450	21. 0	47. 0	49. 0			6. 29	10. 0	7. 6	.0894					
5. 54	14. 30	3. 20	.0878	22. 38	.02186						6. 44	10. 40	7. 30	.0882					
6. 55	12. 40	3. 45	.0877		(†)						7. 5	9. 20	7. 45	.0885					
8. 29	13. 5	4. 24	.0868								7. 17	12. 0	8. 8	.0883					
9. 10	10. 30	4. 52	.0874								7. 38	12. 0		***					
10. 0	13. 20	5. 8	.0872								9. 25	15. 0	9. 28	.0894					
10. 30	2. 45	6. 20	.0882								9. 44	14. 0		***					
10. 44	5. 20		***								10. 2	14. 0	10. 27	.0895					
10. 54	5. 0	7. 16	.0877								11. 1	5. 15	10. 40	.0892					
11. 11	7. 25		***								12. 13	13. 5	10. 56	.0897					
11. 20	5. 20	8. 38	.0887								12. 59	15. 40	11. 9	.0897					
11. 30	21. 7. 40	9. 3	.0882								14. 17	15. 40	11. 46	.0886					
12. 2	20. 59. 0	9. 45	.0912								14. 44	14. 30	12. 30	.0889					
14. 53	21. 10. 30	10. 11	.0869								15. 11	15. 30	12. 46	.0894					
15. 28	12. 45	10. 36	.0888								17. 44	13. 55		***					
16. 15	11. 30		***								20. 0	6. 50	15. 6	.0894					
16. 53	11. 50	10. 53	.0887								20. 10	7. 10	16. 22	.0901					
17. 7	10. 10	11. 10	.0876								20. 18	6. 20	17. 24	.0898					
17. 41	11. 30	11. 23	.0884								22. 9	11. 0	17. 53	.0899					
18. 21	8. 20	11. 54	.0898								23. 59	19. 40	19. 13	.0896					
19. 12	10. 0	12. 45	.0874										20. 32	.0888					
19. 25	11. 20	13. 36	.0883										22. 36	.0871					
20. 58	7. 0		***										23. 10	.0870					
23. 0	16. 0	14. 57	.0885										23. 30	.0872					
23. 11	15. 50		***										23. 42	.0870					
23. 45	17. 0	16. 15	.0895										23. 52	.0873					
	(†)		***										23. 59	.0872					
		18. 37	.0895								Apr. 21 0. 0	21. 19. 40	0. 0	.0872	Apr. 21 0. 0	.01267	Apr. 21 1. 0	49. 0	50. 0
		18. 52	.0890								0. 37	21. 20	0. 15	.0871	3. 45	.00974	3. 0	52. 0	52. 4
		19. 10	.0893																
		20. 20	.0896																
		20. 45	.0891																

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

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.	
Apr. 21 h m 0. 54	21. 22. 10	Apr. 21 h m 0. 50	0874	Apr. 21 h m 9. 10	00600	Apr. 21 h m 9. 0	53. 0	53. 0	Apr. 22 h m 19. 25	21. 9. 20	Apr. 22 h m 19. 25	0866	Apr. 22 h m 19. 25	0866	Apr. 22 h m 19. 25	1. 0	49. 0	50. 0
1. 44	22. 50	1. 4	0873	14. 0	00707	22. 25	44. 5	46. 0	20. 5	6. 30	20. 5	0868	20. 5	0868	20. 5	3. 0	52. 0	52. 7
2. 52	20. 45	5. 7	0900	19. 11	01172				20. 12	7. 0	20. 12	0863	20. 12	0863	20. 12	9. 0	54. 0	53. 5
3. 26	17. 10	5. 40	0889	21. 26	01342				20. 30	6. 15	20. 30	0865	20. 30	0865	20. 30	21. 0	46. 0	48. 0
4. 14	15. 45	6. 46	0899	23. 59	01193				21. 40	12. 50	21. 40	0866	21. 40	0866				
4. 51	13. 20	6. 58	0897						21. 54	12. 50	21. 54	0877	21. 54	0877				
5. 11	14. 30	7. 16	0897						23. 59	20. 45	23. 59	0885	23. 59	0885				
5. 28	13. 25	7. 36	0894									Apr. 23 h m 0. 0	Apr. 23 h m 0. 0	Apr. 23 h m 0. 0	Apr. 23 h m 0. 0			
7. 5	12. 15	8. 8	0902						Apr. 23 h m 0. 27	21. 20. 45	Apr. 23 h m 0. 13	0866	Apr. 23 h m 0. 52	0868	Apr. 23 h m 0. 52			
7. 21	13. 0	8. 30	0895						0. 52	22. 50	0. 27	0863	9. 52	0863	9. 52			
8. 0	10. 20	9. 10	0897						4. 40	15. 20	0. 46	0865	20. 36	0865	20. 36			
8. 27	11. 10	9. 32	0895						8. 10	13. 15	1. 20	0866	23. 59	0866	23. 59			
8. 45	10. 5	10. 13	0901						8. 39	11. 50	2. 28	0877		0877				
9. 26	12. 40	11. 3	0899						9. 52	14. 30	4. 15	0885		0885				
9. 54	12. 0	11. 33	0901						10. 54	15. 0	4. 46	0879		0879				
12. 7	16. 20	11. 46	0901						11. 36	11. 45	5. 10	0884		0884				
12. 45	13. 45	11. 55	0905						12. 38	13. 30	5. 53	0884		0884				
13. 11	13. 40		***						14. 52	14. 10	6. 13	0888		0888				
13. 42	18. 0	12. 50	0902						15. 15	13. 30	6. 39	0887		0887				
14. 26	14. 10	13. 36	0907						16. 14	16. 30	7. 0	0885		0885				
14. 57	13. 20		***						16. 27	16. 0	7. 22	0885		0885				
15. 37	16. 0	14. 47	0902						16. 43	16. 40	7. 43	0890		0890				
	***	15. 13	0895						18. 27	11. 45	8. 5	0886		0886				
17. 11	12. 55	15. 46	0902						18. 43	13. 0	8. 16	0886		0886				
17. 26	13. 30	15. 58	0897						19. 12	11. 20	8. 38	0881		0881				
17. 37	11. 40		***							***	9. 5	0887		0887				
18. 12	10. 45	18. 6	0907						20. 10	9. 45	9. 22	0885		0885				
18. 26	9. 20	18. 43	0902						20. 36	10. 0	10. 20	0888		0888				
18. 30	9. 35	18. 54	0902						21. 25	11. 40	10. 43	0887		0887				
18. 38	8. 45	19. 42	0887						22. 11	15. 45	11. 16	0892		0892				
18. 44	10. 50	20. 28	0891						23. 45	20. 30	11. 58	0893		0893				
18. 51	9. 0	20. 52	0888							(†)	13. 15	0890		0890				
18. 56	10. 0	21. 17	0891								15. 58	0896		0896				
19. 9	8. 50	22. 33	0878								16. 22	0895		0895				
19. 16	10. 50		(†)								17. 38	0902		0902				
19. 28	10. 0										21. 50	0867		0867				
19. 43	11. 0										22. 30	0876		0876				
19. 56	10. 20										23. 7	0873		0873				
20. 12	11. 15										23. 26	0866		0866				
21. 0	7. 20										23. 59	0861		0861				
21. 17	9. 30																	
23. 59	18. 10																	
Apr. 22 h m 0. 0	21. 18. 10	Apr. 22 h m 8. 0	0902*	Apr. 22 h m 0. 0	01193	Apr. 22 h m 8. 0	49. 6	51. 0	Apr. 24 h m 0. 13	(†)	Apr. 24 h m 0. 0	0861	Apr. 24 h m 0. 0	0861	Apr. 24 h m 0. 0	1. 0	47. 6	48. 4
1. 11	21. 0	21. 0	0880*	2. 0	01200	21. 0	44. 0	45. 3	0. 13	21. 20. 50	1. 5	0871	2. 13	0871	2. 13	3. 0	49. 0	50. 0
2. 26	20. 30	21. 0		11. 11	00792				1. 36	21. 15	2. 10	0883	8. 30	0883	8. 30	9. 0	50. 0	50. 7
4. 53	14. 30			19. 42	01257				4. 35	16. 0	4. 30	0893	17. 12	0893	17. 12	21. 0	46. 5	47. 3
5. 35	13. 40			19. 57	01200				6. 55	13. 45	***	***		***				
6. 10	11. 20			22. 0	01200				7. 42	14. 50	11. 6	0899	21. 22	0899	21. 22			
6. 43	12. 30			23. 59	01093				14. 5	14. 35	11. 52	0903	23. 59	0903	23. 59			
12. 48	14. 0								14. 55	15. 45	12. 34	0899		0899				
13. 19	15. 30								15. 56	14. 45	13. 47	0904		0904				
14. 7	14. 30								16. 58	15. 5	14. 8	0903		0903				
16. 23	14. 40								19. 23	10. 30	15. 26	0910		0910				
16. 54	13. 25								19. 30	11. 20	16. 52	0908		0908				
18. 30	11. 35								19. 58	8. 30	17. 56	0911		0911				
18. 44	10. 0								20. 12	10. 20	19. 50	0900		0900				

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

April 22. The Photographic Trace for the Horizontal Force Magnet was 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.									
Apr. 24 21. 55 23. 15	21. 13. 20 18. 15 (†)	Apr. 24 21. 38 23. 59	·0874 ·0865	h h		h h	o o		Apr. 26 17. 31 18. 12 19. 7 19. 58 20. 12 20. 25 21. 11 21. 57 22. 45 23. 16 23. 59	21. 25. 20 21. 50 19. 20 18. 20 15. 30 18. 30 20. 30 24. 10 23. 15 26. 30 27. 0	Apr. 26 15. 40 16. 30 17. 7 18. 23 20. 17 21. 43 23. 20 23. 59	·0897 *** ·0899 ·0881 ·0899 ·0890 ·0865 ·0877 ·0866	h h		h h	o o										
Apr. 25 3. 0 5. 40 8. 9 8. 43 8. 59 14. 19 14. 30 14. 45 14. 54 15. 10 16. 0 16. 29 17. 16 17. 35 18. 15 18. 44 18. 56 19. 10 19. 18 20. 11 20. 30 20. 54 21. 12 22. 30 23. 17 23. 59	(†) 21. 31. 45 24. 15 21. 55 22. 20 23. 45 23. 40 25. 0 24. 0 25. 0 24. 0 26. 10 23. 0 22. 50 20. 5 22. 10 21. 30 22. 30 21. 30 21. 20 17. 30 18. 20 18. 0 19. 45 24. 40 29. 55 31. 0	Apr. 25 0. 0 0. 33 3. 0 3. 6 3. 22 3. 47 6. 14 7. 18 7. 30 8. 3 8. 42 9. 43 10. 8 12. 45 16. 16 19. 40 22. 17 23. 32 23. 59	·0865 ·0872 ·0885 ·0887 ·0880 ·0878 *** ·0885 ·0881 ·0886 ·0884 *** ·0888 ·0884 ·0890 *** ·0890 *** ·0899 *** ·0893 *** ·0862 *** ·0857 ·0875	Apr. 25 0. 0 1. 40 6. 54 9. 9 13. 26 21. 12 23. 59	·01053 ·00937 ·00360 ·00612 ·00775 ·01205 ·01250	Apr. 25 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 18. 0 21. 10	49. 0 51. 0 54. 0 57. 0 56. 0 54. 0 49. 0 48. 0	49. 7 51. 3 54. 0 58. 0 56. 8 54. 5 51. 0 50. 0	Apr. 26 0. 0 0. 29 2. 30 4. 10 6. 2 6. 54 7. 21 7. 56 8. 28 9. 41 9. 54 10. 13 10. 29 10. 44 11. 9 11. 43 13. 55 14. 10 14. 24 14. 41 14. 57 15. 31 16. 45	21. 31. 0 33. 30 31. 50 25. 5 19. 20 20. 40 19. 10 19. 30 17. 25 22. 0 21. 30 22. 40 22. 0 21. 0 22. 50 25. 30 24. 0 25. 30 23. 50 27. 55 22. 0 20. 50	Apr. 26 0. 0 0. 58 2. 37 3. 17 3. 53 4. 35 4. 52 5. 30 6. 20 6. 47 7. 7 7. 53 8. 36 10. 15 11. 0 12. 21 13. 10 14. 35 14. 44 15. 6	·0875 *** ·0856 ·0888 ·0880 ·0880 ·0898 ·0884 ·0897 ·0879 ·0894 ·0884 ·0886 ·0872 ·0885 ·0880 *** ·0890 ·0886 *** ·0896 ·0892 ·0901	Apr. 26 0. 0 2. 43 4. 56 10. 17 15. 0 21. 51 23. 59	·01250 ·01170 ·00990 ·00864 ·01035 ·01420 ·01350	Apr. 26 0. 0 1. 0 3. 0 9. 0 21. 0	50. 0 51. 0 53. 3 54. 4 49. 0	51. 2 52. 0 54. 0 54. 4 49. 6	Apr. 28 1. 0 3. 0 9. 0 22. 20	21. 30. 41* 26. 9* 15. 53* 21. 6*	Apr. 28 1. 0 3. 0 9. 0 22. 20	·0872* ·0873* ·0892* ·0870*	Apr. 28 1. 0 3. 0 9. 0 22. 20	·01537* ·01280* ·00782* ·01707*	Apr. 28 1. 0 3. 0 9. 0 22. 20	52. 0 55. 8 58. 5 49. 0	52. 7 56. 0 57. 8 51. 0
Apr. 29 9. 22 21. 0	21. 21. 26* 17. 10*	Apr. 29 9. 22 21. 0	·0896* ·0880*	Apr. 29 0. 0 1. 48 6. 9 6. 48 10. 22 16. 27 21. 6 23. 59	·01638 ·01497 ·00848 ·00935 ·01037 ·01411 ·01811 ·01820	Apr. 29 9. 22 21. 0	58. 0 52. 3	61. 0 53. 8																		
Apr. 30 0. 58 1. 10 1. 14 1. 28	(†) 21. 29. 0 28. 10 29. 10 27. 20	Apr. 30 1. 0 3. 0 9. 0 21. 0	·0880* ·0870* ·0885* ·0877*	Apr. 30 1. 0 3. 0 9. 0 21. 0	·01767* ·01479* ·01245* ·01699*	Apr. 30 1. 0 3. 0 9. 0 21. 0	58. 0 61. 3 64. 7 55. 0	58. 3 61. 8 64. 5 56. 0																		

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

April 28 and 29. The Photographic Traces for the Declination Magnet were too faint for use.
 April 28, 29, and 30. The Photographic Traces for the Horizontal Force Magnet were too faint for use.
 April 28 and 30. The Photographic Traces for the Vertical Force Magnet were too faint for use.

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Apr. 30																	
1. 43	21. 28. 0										May 2	4. 43	0.888	10. 20	0.00397	9. 0	65.3
2. 30	24. 0											8. 7	0.881	13. 40	0.00570	12. 0	63.7
2. 45	24. 5											8. 24	0.875	17. 35	0.00780	18. 0	56.3
3. 1	20. 50												***	22. 0	0.01274	21. 0	56.0
3. 30	19. 20												***	23. 59	0.00760		56.9
3. 43	20. 0												13. 40	0.887	0.00628		
4. 58	18. 0												16. 41	0.885	0.00524		
5. 14	18. 30												21. 16	0.872			
5. 39	16. 35												21. 52	0.875			
6. 54	16. 30												(+)				
7. 9	15. 30																
8. 4	14. 10																
9. 10	17. 30																
9. 35	19. 35																
10. 9	18. 20																
12. 22	20. 45																
13. 0	20. 0																
	(+)																
21. 0	21. 14*																
May 1	(+)	May 1		May 1	(+)	May 1											
0. 52	21. 23. 30	1. 0	0.867*	1. 0	0.1340	1. 0	60.3	60.0									
2. 6	23. 50	3. 0	0.872*	6. 52	0.0549	3. 0	63.0	62.3									
3. 13	21. 10	9. 0	0.883*		0.0727	9. 0	64.5	64.0									
3. 30	21. 20	21. 0	0.878*	8. 52	0.00727	21. 0	56.3	56.2									
3. 43	20. 25			11. 7	0.00880												
3. 45	21. 20			14. 32	0.00904												
4. 10	19. 25			19. 27	0.01183												
6. 7	17. 20			23. 0	0.01627												
7. 48	16. 30				0.01274												
8. 30	11. 50				(+)												
8. 43	12. 30																
8. 57	11. 55																
9. 50	17. 10																
10. 13	16. 50																
10. 54	18. 35																
11. 28	17. 45																
13. 31	18. 0																
13. 51	19. 15																
14. 28	18. 10																
15. 14	19. 55																
16. 27	17. 20																
18. 36	15. 10																
18. 52	16. 10																
19. 43	13. 50																
20. 4	16. 20																
20. 39	13. 40																
21. 5	16. 30																
22. 40	21. 50																
23. 22	23. 30																
	(+)																
May 2	21. 25. 16*	May 2	(+)	May 2	(+)	May 2											
1. 0	21. 45*	1. 0	0.879*	0. 42	0.00910	1. 0	58.2	58.0									
3. 0	12. 57*	2. 46	0.872	6. 19	0.00205	3. 0	62.5	61.8									
21. 0	13. 26*	3. 20	0.874	7. 40	0.00360	6. 0	64.0	64.0									
May 2		May 2		May 2		May 2											
17. 12	19. 55																
17. 21	18. 10																
18. 0	18. 10																
18. 40	21. 30																
19. 40	17. 0																
19. 46	17. 35																
May 4	21. 27. 0	May 4		May 4		May 4											
0. 0	27. 40	0. 6	0.874	0. 0	0.00345	1. 0	55.8	57.2									
1. 0	21. 0	0. 27	0.875	1. 40	0.00265	3. 0	60.0	62.0									
3. 15	18. 20	0. 53	0.873	4. 5	0.00120	9. 0	65.0	66.0									
3. 30	18. 20	***	0.879	21. 0	(+)	21. 0	55.0	57.0									
	15. 15	1. 10	0.873	9. 0	0.00287												
	15. 25	1. 52	0.872	14. 27	0.00025												
	17. 12	2. 10	0.877	18. 0	0.00390												
	19. 55	2. 45	0.877	21. 56	0.00704												
	18. 10	3. 13	0.878	23. 59	0.00612												
	18. 10	3. 30	0.888														
	21. 30	4. 2	0.872														
	17. 0	4. 13	0.884														
	17. 35	4. 13	0.880														

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

On May 1, the Photographic Trace for the Horizontal Force Magnet, and on May 2 that for the Declination Magnet, 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
May 4 20. 6	21. 16. 30	May 4 4. 23	·0887						May 5 6. 30	21. 19. 30	May 5 5. 40	·0880					
20. 14	14. 0	4. 32	·0884						7. 15	20. 50	5. 49	·0878					
20. 28	21. 30	4. 38	·0888						8. 28	20. 55	6. 0	·0882					
21. 10	17. 0		***						8. 48	22. 35	6. 43	·0878					
21. 52	18. 50	4. 54	·0881						9. 48	18. 0	7. 4	·0887					
22. 39	26. 0		***						10. 10	19. 25	7. 38	·0887					
22. 56	25. 30	5. 57	·0878						10. 18	19. 0	7. 52	·0893					
23. 24	30. 40		***						10. 54	23. 15	8. 4	·0889					
23. 41	28. 30	6. 20	·0881						11. 15	23. 10	8. 23	·0889					
23. 55	31. 0		***						12. 13	17. 0	9. 5	·0899					
23. 59	30. 30	6. 53	·0875						12. 50	18. 15	9. 25	·0885					
		7. 26	·0878							(†)		***					
		8. 47	·0875						14. 43	14. 30	10. 10	·0885					
		9. 33	·0879						15. 13	14. 55	10. 58	·0900					
		9. 50	·0874						15. 43	17. 0	11. 24	·0901					
		10. 22	·0875						16. 15	16. 20	11. 40	·0897					
			***						16. 56	21. 10	12. 10	·0897					
		11. 3	·0878						17. 18	19. 15	12. 47	·0881					
		12. 6	·0885						17. 25	19. 55	12. 58	·0884					
		12. 20	·0893						17. 42	17. 30	13. 23	·0900					
		12. 45	·0887						17. 55	22. 0	13. 45	·0893					
		13. 8	·0894						19. 5	13. 40	14. 10	·0885					
			***						19. 22	14. 0	15. 22	·0903					
		14. 26	·0898						19. 35	15. 30	16. 21	·0901					
			***						19. 44	14. 10	17. 0	·0884					
		15. 17	·0906						19. 59	13. 50	17. 36	·0896					
			***						20. 11	14. 15	17. 50	·0897					
		15. 45	·0904						20. 28	12. 40	18. 9	·0905					
			***						21. 50	18. 50	18. 44	·0898					
		16. 43	·0915							(†)	19. 0	·0899					
		16. 54	·0912								19. 10	·0893					
			***								19. 40	·0898					
		19. 45	·0904								20. 11	·0897					
		19. 54	·0908								20. 35	·0884					
			***								21. 45	·0879					
		20. 17	·0904								(†)						
		20. 28	·0910						May 6 8. 26	21. 10. 23*	May 6 8. 26	·0886*	May 6 8. 26	·02764*	May 6 8. 26	58. 0	59. 0
			***						21. 0	20. 41*	21. 0	·0850*	21. 0	·03012*	21. 0	51. 8	51. 7
		20. 56	·0903						May 7 1. 0	21. 28. 22*	May 7 1. 0	·0856*	May 7 0. 0	·02735	May 7 1. 0	57. 2	57. 3
		21. 7	·0905						3. 0	23. 17*	3. 0	·0869*	1. 15	·02668	3. 0	60. 0	61. 0
		23. 6	·0874						9. 0	13. 38*	9. 0	·0893*	3. 11	·02380	9. 0	58. 0	60. 0
		23. 24	·0896						21. 0	18. 51*	21. 0	·0881*	6. 32	·02649	21. 0	54. 0	55. 7
			(†)										9. 15	·02715			
May 5 0. 0	21. 30. 30	May 5 1. 0	(†)	May 5 1. 0	·02528*	May 5 1. 0	56. 7	58. 0					13. 1	·02966			
0. 33	28. 0	1. 0	·0869*	3. 0	·02702*	3. 0	58. 2	59. 1					16. 18	·03292			
0. 49	30. 50	2. 30	·0856	9. 0	·02672*	9. 0	57. 2	58. 3					19. 37	·03120			
1. 3	29. 40	2. 47	·0856	22. 0	·02941*	22. 0	49. 3	51. 0						(†)			
1. 28	33. 40	3. 10	·0872										21. 0	·02959*			
2. 14	32. 20	3. 18	·0873										21. 42	·02870			
2. 58	32. 30	3. 40	·0887										23. 59	·02833			
3. 41	30. 35	3. 50	·0886						May 8 1. 0	21. 30. 21*	May 8 1. 0	·0882*	y 8 1. 0	·02761*	May 8 1. 0	57. 3	58. 0
3. 53	28. 0	4. 6	·0868						3. 0	30. 18*	3. 0	·0884*	3. 0	·02651*	3. 0	59. 4	59. 7
4. 9	30. 40	4. 48	·0879														
4. 43	21. 45		***														
5. 21	22. 40	5. 29	·0876														

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

May 5, 6, 8 and 10. The Photographic Traces for the Vertical Force Magnet were too faint for use.

VERTICAL FORCE.—May 5. The adjustments were altered so that the scale reading was increased by about 13 divisions, or by 0.01947 parts of the whole Vertical Force.

May 6 to 10. Owing to defects in the paper, the Photographic Traces for the Horizontal Force and Declination Magnets were too faint for use.

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermo-meters.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermo-meters.										
							Of H. F. Magnet.	Of V. F. Magnet.								Of H. F. Magnet.	Of V. F. Magnet.									
May 8 9. 0 21. 0	21. 29. 27* 27. 52*	May 8 9. 0 21. 0	.0881* .0871*	May 8 9. 0 21. 0	.02334* .02719*	May 8 9. 0 21. 0	60. 3 57. 5	61. 8 59. 8	May 11 17. 18 17. 42 17. 56 18. 10 18. 35	21. 16. 10 17. 10 15. 50 17. 0 15. 40 (†)	May 11 17. 40 18. 10 19. 0 19. 16 20. 30	.0945 .0947 .0941 .0945 .0931 ***	h h	h h	o o	o o										
May 9 1. 0 3. 0 21. 0	21. 4. 52* 28. 16* 20. 5*	May 9 1. 0 3. 0 9. 0 21. 0	.0874* .0881* .0891* .0888*	May 9 (†) 1. 0 1. 49 3. 45 8. 53 12. 54 14. 59 17. 10 19. 7 21. 0	(†) .02654* .02570 .02517 .02223 .02325 .02477 .02736 .02790 (†) .02786*	May 9 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 18. 0 21. 0	59. 5 60. 0 61. 3 63. 0 62. 7 60. 0 53. 3 54. 0	60. 3 61. 3 62. 1 63. 8 63. 0 60. 7 55. 1 55. 4	May 12 0. 54 1. 52 2. 10 2. 59 3. 42 4. 27 5. 9 6. 10 7. 25 7. 30 7. 44 8. 30 8. 50 9. 40 10. 21 10. 40 10. 58 11. 43 12. 12 12. 43 13. 10 13. 24 13. 41 14. 18 15. 10 16. 3 17. 13 17. 45 17. 58 19. 6 19. 44 19. 51 20. 39 21. 17 21. 36 21. 49 23. 59	(†) 21. 24. 45 22. 50 24. 0 20. 40 19. 50 20. 10 19. 0 15. 20 15. 15 16. 5 15. 40 16. 30 18. 30 14. 0 14. 40 13. 30 14. 30 13. 40 11. 10 13. 40 11. 20 12. 30 12. 10 13. 15 8. 0 12. 30 13. 50 12. 40 14. 0 11. 30 13. 10 12. 30 16. 15 17. 0 18. 40 18. 20 24. 0	May 12 (†) 1. 0 2. 13 3. 39 6. 0 10. 22 14. 36 17. 30 23. 59	(†) .02264* .02550 .02478 .02590 .02612 .02772 {.03008 .02937 .03033	May 12 1. 0 2. 13 3. 39 6. 0 10. 22 14. 36 17. 30 23. 59	h h	h h	o o	o o									
May 10 1. 0 3. 0 9. 0 21. 0	21. 24. 33* 20. 12* 19. 51* 18. 7*	May 10 1. 0 3. 0 9. 0 21. 0	.0873*	May 10 1. 0 3. 0 9. 0 21. 0	.02743* .02968* .02279* .02609*	May 10 0. 0 1. 0 3. 0 9. 0 21. 0	57. 0 57. 3 59. 0 61. 8 59. 3	58. 0 58. 2 60. 2 63. 0 61. 2	May 12 0. 54 1. 52 2. 10 2. 59 3. 42 4. 27 5. 9 6. 10 7. 25 7. 30 7. 44 8. 30 8. 50 9. 40 10. 21 10. 40 10. 58 11. 43 12. 12 12. 43 13. 10 13. 24 13. 41 14. 18 15. 10 16. 3 17. 13 17. 45 17. 58 19. 6 19. 44 19. 51 20. 39 21. 17 21. 36 21. 49 23. 59	(†) 21. 28. 52* 25. 40* 21. 0 22. 0 19. 55 21. 10 20. 5 19. 30 17. 50 19. 10 15. 20 16. 0 15. 20 19. 0 17. 10 17. 0 18. 50 18. 20 19. 50 17. 5 18. 15 18. 10 19. 0 14. 20 19. 0 16. 15 (†) 19. 0 15. 0 15. 25 18. 40 16. 40 18. 0	May 11 1. 0 3. 0 4. 25 4. 44 5. 0 5. 8 5. 24 6. 0 6. 24 6. 32 7. 11 7. 15 7. 29 7. 42 7. 54 8. 16 8. 35 8. 49 8. 56 9. 13 9. 30 10. 0 10. 8 10. 26 10. 54 11. 13 12. 11 14. 52 15. 17 15. 44 16. 10 16. 30	(†) .0946* .0944 .0942 .0952 .0950 .0962 .0958 *** .0965 *** .0961 .0958 .0949 .0954 (†) .0945 .0940 .0948 .0946 .0947 .0941 .0958 .0944 .0947 *** .0944 .0944 .0947 *** .0950 .0945 .0945 .0949 .0944 .0950	May 11 1. 0 3. 0 4. 56 5. 43 8. 36 11. 27 14. 0 15. 12 16. 17 16. 42 19. 33 21. 0	(†) .02609* .02594* .02607 .02627 .02525 .02505 .02610 .02567 .02625 .02588 .02650 (†) .02571*	May 11 1. 0 3. 0 9. 30 21. 0	61. 3 62. 0 63. 0 62. 0	62. 4 63. 7 64. 3 63. 0	May 12 0. 54 1. 52 2. 10 2. 59 3. 42 4. 27 5. 9 6. 10 7. 25 7. 30 7. 44 8. 30 8. 50 9. 40 10. 21 10. 40 10. 58 11. 43 12. 12 12. 43 13. 10 13. 24 13. 41 14. 18 15. 10 16. 3 17. 13 17. 45 17. 58 19. 6 19. 44 19. 51 20. 39 21. 17 21. 36 21. 49 23. 59	(†) 21. 24. 45 22. 50 24. 0 20. 40 19. 50 20. 10 19. 0 15. 20 15. 15 16. 5 15. 40 16. 30 18. 30 14. 0 14. 40 13. 30 14. 30 13. 40 11. 10 13. 40 11. 20 12. 30 12. 10 13. 15 8. 0 12. 30 13. 50 12. 40 14. 0 11. 30 13. 10 12. 30 16. 15 17. 0 18. 40 18. 20 24. 0	May 12 1. 0 2. 13 3. 39 6. 0 10. 22 14. 36 17. 30 23. 59	(†) .02264* .02550 .02478 .02590 .02612 .02772 {.03008 .02937 .03033	May 12 1. 0 2. 13 3. 39 6. 0 10. 22 14. 36 17. 30 23. 59	h h	h h	o o	o o

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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 10 and 11. Workmen were engaged in the room and deranged the adjustments of the Horizontal Force Magnet, and thus interrupted the series.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
May 13		May 13		May 13		May 13			May 14		May 14				May 14		
0. 0	21. 24. 0	0. 0	*0934	0. 0	*03033	8. 0	64. 0	65. 0	15. 52	21. 14. 50	13. 9	*0947					
1. 30	25. 40	0. 34	*0931	3. 14	*03082	21. 0	58. 7	60. 8	16. 39	14. 20	14. 0	*0952					
2. 14	24. 0		***	9. 2	*02600				16. 52	13. 15	14. 58	*0950					
3. 24	23. 0	1. 42	*0940	13. 41	*02764				18. 0	13. 0	15. 25	*0944					
3. 30	23. 40		***	19. 7	*03172				18. 35	14. 40	16. 57	*0944					
4. 32	19. 55	2. 50	*0939	23. 59	*03210				18. 43	14. 0	17. 30	*0959					
4. 54	20. 10		***						19. 9	13. 50	18. 15	*0948					
5. 14	18. 30	3. 41	*0949						19. 27	11. 35	18. 30	*0942					
5. 43	18. 55		***						20. 21	13. 20		***					
6. 15	17. 30	4. 20	*0949						22. 17	20. 30	22. 0	*0928					
6. 52	17. 50	4. 38	*0946						23. 54	22. 0		***					
8. 5	14. 0	4. 51	*0948						23. 59	22. 45	23. 59	*0935					
8. 43	16. 30	5. 4	*0955														
8. 52	16. 20	5. 11	*0950						May 15		May 15		May 15		May 15		
9. 12	17. 15	5. 29	*0948						0. 0	21. 22. 45	0. 0	*0935	0. 0	*03174	1. 0	63. 0	64. 0
13. 11	17. 0	5. 55	*0961						0. 12	23. 30	0. 22	*0939	2. 58	*02992	3. 0	64. 0	65. 3
13. 49	15. 30	6. 16	*0943						0. 27	23. 0	1. 24	*0931	6. 59	*02643	9. 0	67. 7	68. 2
14. 10	17. 20		***						0. 43	24. 20		***	9. 12	*02793	21. 0	58. 3	60. 1
14. 52	15. 0	7. 0	*0950						1. 39	21. 40	3. 0	*0936	11. 51	*02844			
15. 12	15. 20	7. 25	*0943						4. 45	15. 0	3. 15	*0934	14. 7	*02963			
15. 52	13. 0	7. 46	*0931						5. 51	14. 15		***	20. 13	*03566			
16. 30	13. 5		***						6. 52	15. 10	4. 42	*0935	23. 59	*03294			
16. 50	10. 50	9. 10	*0936						7. 57	14. 20	5. 23	*0943					
17. 4	10. 20	9. 30	*0932						8. 58	16. 0	5. 50	*0938					
17. 54	11. 35	11. 7	*0939						9. 14	15. 10	6. 15	*0944					
18. 10	13. 0	11. 46	*0935						9. 28	15. 50		***					
18. 17	11. 55		***						9. 50	13. 45	7. 16	*0942					
18. 51	15. 0	14. 0	*0940						10. 10	14. 30	7. 37	*0939					
19. 52	15. 30	14. 22	*0936						10. 39	14. 30		***					
20. 12	18. 0	15. 14	*0940						10. 54	15. 45	8. 48	*0940					
21. 24	20. 0		***						11. 45	12. 50	9. 11	*0953					
23. 29	27. 55	17. 50	*0941						12. 10	9. 30	9. 51	*0942					
23. 40	27. 30		***						12. 27	10. 0	10. 17	*0939					
23. 44	28. 0	19. 9	*0936						12. 43	10. 20	10. 43	*0941					
23. 59	27. 0	20. 8	*0948						13. 27	14. 30	11. 37	*0935					
			***						15. 4	17. 20		***					
		22. 10	*0938						15. 48	15. 10	11. 56	*0937					
		22. 29	*0945						16. 15	16. 20	12. 37	*0926					
		22. 45	*0938							***		***					
		23. 59	*0930						17. 54	12. 0	13. 33	*0937					
May 14		May 14		May 14		May 14			18. 12	12. 30	17. 12	*0948					
0. 0	21. 27. 0	0. 0	*0930	0. 0	*03210	1. 0	61. 3	62. 8	19. 18	10. 45		***					
0. 58	24. 20	0. 47	*0931	5. 14	*02977	3. 0	63. 2	64. 7	19. 30	11. 30	23. 7	*0931					
1. 30	26. 10	1. 28	*0944	7. 16	*02828	9. 0	63. 5	66. 0	19. 50	10. 20	23. 59	*0930					
2. 42	22. 35	2. 8	*0931	10. 11	*02764	21. 0	58. 3	60. 2	20. 12	10. 30							
3. 44	22. 25	2. 31	*0928	11. 52	*02780				20. 23	12. 10							
4. 15	21. 0	4. 0	*0943	14. 47	*02930				22. 12	16. 20							
4. 52	20. 30	4. 15	*0943	20. 15	*03290				23. 59	23. 30							
5. 33	18. 25	5. 20	*0961		*03250				May 16		May 16		May 16		May 16		
5. 41	18. 45	5. 40	*0952	21. 40	*03280				0. 0	21. 23. 30	0. 0	*0930	0. 0	*03294	0. 0	59. 7	60. 6
6. 30	13. 50	5. 50	*0952	23. 59	*03174				0. 40	25. 10	1. 47	*0930	2. 57	*03260	1. 0	60. 0	60. 8
7. 29	17. 0	6. 17	*0960						2. 21	23. 45	2. 40	*0934	5. 23	*03105	3. 0	62. 3	62. 2
13. 8	16. 40	6. 55	*0945						4. 10	17. 30		***	10. 0	*03005	6. 0	63. 0	62. 8
13. 40	18. 5		***						5. 8	15. 40	4. 18	*0948	14. 10	*03140	9. 0	62. 2	62. 2
14. 0	17. 45	8. 12	*0947						5. 59	15. 35	5. 3	*0948	17. 52	*03373	12. 0	61. 2	61. 7
14. 17	19. 5	9. 36	*0942						6. 27	14. 20	5. 57	*0961	18. 10	*03338	18. 0	58. 1	59. 0
15. 22	13. 55	12. 6	*0950														

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
May 16		May 16		May 16		May 16			May 17		May 17				May 17		
7. 15	21. 14. 50	6. 15	.0967	18. 52	{ .03350	21. 0	58° 0	59° 0	20. 28	21. 13. 40	22. 5	.0938					
7. 54	16. 20	7. 10	.0947		.03190				20. 43	13. 25		***					
9. 30	18. 0		***	21. 58	.03253				21. 50	20. 30	23. 59	.0936					
10. 12	14. 10	7. 40	.0947	23. 59	.03198				22. 41	24. 30							
10. 35	16. 15	7. 55	.0952						23. 59	27. 30							
10. 56	14. 45	8. 13	.0952														
11. 20	16. 0	8. 20	.0950														
13. 16	17. 30	9. 6	.0956														
13. 30	17. 30	9. 26	.0955						May 18	21. 27. 30	0. 0	.0936	0. 0	.03230	1. 0	59. 2	59. 6
14. 10	17. 20	9. 36	.0968						1. 0	29. 45	0. 56	.0950	1. 54	.02760	3. 0	61. 5	61. 5
14. 41	15. 0	10. 22	.0957						2. 36	25. 0	2. 6	.0942	4. 44	.02518	9. 0	63. 2	64. 0
15. 0	13. 30	10. 47	.0940						3. 16	25. 0	2. 50	.0955	7. 37	.02730	21. 0	57. 0	58. 0
15. 37	15. 15	11. 2	.0941						3. 44	22. 5	3. 18	.0960	14. 35	.02917			
16. 10	15. 45	11. 25	.0947						5. 12	19. 20	3. 53	.0947	20. 43	.03322			
16. 41	13. 30		***						5. 21	19. 50	4. 46	.0957	22. 28	.03370			
17. 14	12. 30	12. 54	.0944						6. 23	17. 10	5. 6	.0955	23. 59	.03333			
17. 52	12. 20	13. 53	.0951						6. 43	14. 0	5. 45	.0964					
18. 7	13. 0	14. 15	.0960						7. 27	13. 20	6. 21	.0960					
19. 10	10. 25	15. 20	.0948						7. 52	15. 35	6. 30	.0962					
19. 24	11. 40	17. 17	.0948						8. 39	17. 20	6. 46	.0953					
20. 27	10. 30	17. 45	.0946						10. 30	17. 40		***					
22. 28	18. 45	18. 22	.0947						12. 14	17. 0	7. 38	.0966					
23. 59	26. 50	22. 3	.0937						12. 44	18. 0		***					
		23. 10	.0940						14. 11	15. 10	8. 47	.0949					
		23. 59	.0939						14. 55	11. 0		***					
									15. 26	13. 0	12. 15	.0952					
									15. 57	16. 55		***					
May 17		May 17		May 17		May 17			16. 24	14. 10	13. 8	.0958					
0. 0	21. 26. 50	0. 0	.0939	0. 0	.03198	0. 0	59° 56' 0	60° 0	16. 50	15. 0	13. 27	.0954					
0. 44	25. 30	0. 18	.0931	2. 57	.03186	1. 0	60° 0	60° 5	17. 8	13. 40	14. 15	.0958					
0. 54	26. 15	1. 20	.0938	6. 13	.03078	3. 0	61° 5	62° 3	17. 12	14. 10	14. 52	.0954					
1. 28	24. 10	1. 56	.0948	10. 6	.03040	9. 0	61° 8	62° 0	17. 27	12. 50	15. 10	.0948					
2. 1	24. 40	2. 27	.0937	13. 57	.03228	21. 0	56° 0	57° 3	17. 54	13. 30	15. 20	.0951					
2. 43	20. 40		***	15. 10	.03255				18. 19	12. 30	15. 35	.0946					
5. 17	17. 0	5. 11	.0970	16. 26	{ .03330				18. 48	12. 15		***					
5. 43	15. 35		***		.03303				18. 57	13. 0	16. 13	.0954					
6. 44	14. 10	6. 13	.0968	17. 26	.03370				19. 10	12. 0	16. 23	.0948					
7. 27	12. 0	6. 30	.0950	18. 40	{ .03360				19. 26	13. 30	17. 48	.0949					
7. 54	12. 0	6. 45	.0962		.03238				19. 51	11. 40	18. 12	.0944					
9. 16	16. 45	7. 7	.0955	22. 19	.03288				20. 0	12. 55		***					
9. 40	19. 30	7. 27	.0958	23. 59	.03230				20. 53	13. 40	20. 51	.0944					
10. 30	16. 30	7. 40	.0954						22. 39	22. 30		***					
12. 55	18. 20		***						23. 21	22. 45	22. 7	.0932					
13. 30	17. 45	9. 5	.0951						23. 59	25. 0	22. 20	.0934					
13. 51	19. 35	9. 22	.0956									***					
14. 21	17. 20	10. 45	.0958								22. 45	.0927					
14. 51	13. 50		***									***					
15. 14	13. 20	11. 42	.0954								23. 47	.0939					
15. 52	16. 30	12. 37	.0955								23. 59	.0938					
16. 14	14. 30	13. 15	.0960														
16. 42	12. 30	13. 47	.0959						May 19	21. 25. 0	0. 0	.0939	0. 0	.03333	1. 0	60. 3	61. 1
16. 59	12. 10	14. 40	.0977						1. 7	26. 5	0. 11	.0937	0. 41	.03330	3. 0	63. 7	64. 8
17. 14	13. 30	15. 40	.0949						1. 39	24. 45	1. 4	.0947	2. 51	.03133	9. 0	65. 8	67. 2
17. 44	10. 35	16. 15	.0957						2. 12	25. 0	1. 13	.0942	4. 59	.02785	22. 0	63. 0	63. 5
18. 54	9. 40	16. 38	.0954						2. 22	26. 45	1. 36	.0939	6. 37	.03155			
19. 10	11. 30		***						2. 58	22. 40	2. 2	.0946	9. 12	.03487			
19. 16	10. 20	17. 15	.0956						5. 9	17. 50	2. 17	.0962	14. 10	.03652			
19. 30	10. 30		***								(†)	***	20. 40	.04050			
19. 43	12. 30	21. 8	.0932														

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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 19. The Declination Magnet was in contact with some portion of its apparatus from 5^h. 10^m.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
May 19 2. 53		May 19 22. 27	0946 ***	May 19 23. 59	04038 03880				May 22 0. 44		May 22 0. 0	0918 ***	May 22 0. 0	01970	May 22 1. 0	67.5	68.2
3. 37			0951						1. 0	21. 30	0. 47	0923	1. 36	01980	3. 0	70.0	70.8
3. 45			0958						2. 14	19. 20	1. 0	0930	3. 5	02145	9. 0	70.5	72.0
3. 52			0952 ***						2. 22	19. 55		***	5. 40	02205	21. 0	61.6	62.0
4. 16			0953						4. 43	13. 10	2. 50	0923	7. 12	02628			
4. 22			0957						5. 22	12. 0	3. 17	0926	8. 24	02810			
4. 45			0953 (†)						5. 31	15. 0		***	8. 29	0292			
9. 0			0941*						5. 48	13. 30	3. 58	0921	9. 11	02828			
16. 8			0947						6. 14	12. 20	4. 40	0923	12. 34	02911			
17. 47			0949						6. 26	13. 15	4. 51	0920	16. 21	03363			
18. 50			0932						6. 51	12. 20	5. 17	0925	21. 12	02800			
19. 9			0935 ***						7. 10	13. 0	5. 31	0922	23. 59	02670			
22. 13			0923 (†)						7. 43	11. 45	5. 40	0924					
									7. 56	12. 0	5. 52	0947					
									8. 13	10. 30	6. 17	0928					
									8. 59	12. 0	6. 42	0948					
									9. 36	11. 0	7. 16	0925					
									9. 57	8. 15	7. 58	0934					
									10. 26	10. 40	8. 8	0931					
									11. 13	6. 0	8. 30	0936					
									11. 27	7. 20	9. 4	0928					
									11. 57	3. 50		***					
									12. 35	16. 30	10. 15	0925					
									13. 0	5. 25	10. 26	0930					
									13. 40	8. 45	10. 45	0927					
									14. 2	7. 20	11. 4	0931					
									14. 56	12. 10	11. 16	0924					
									17. 58	7. 0	11. 30	0924					
									19. 18	7. 0	11. 45	0935					
									20. 51	8. 40	12. 15	0916					
									22. 28	16. 0	12. 30	0932					
									23. 36	23. 35	12. 46	0909					
									23. 59	23. 55	13. 17	0934 ***					
											14. 16	0928					
											14. 30	0933 ***					
											17. 6	0937 ***					
											22. 27	0905					
											22. 46	0912 ***					
											23. 17	0914					
											23. 30	0930					
											23. 59	0922					
									May 23 0. 0	21. 23. 55	0. 0	0922 ***	May 23 0. 0	02670	May 23 0. 0	63.5	64.7
									1. 43	23. 0		1. 43	02590	1. 0	64.4	65.2	
									1. 53	24. 30	0. 47	0930	5. 15	02103	3. 0	67.2	68.0
									2. 13	22. 40	0. 52	0935	5. 58	02380	6. 0	71.2	71.9
									2. 27	23. 30	1. 3	0929	7. 57	02660	9. 0	70.7	71.6
									2. 51	21. 20	1. 25	0933	8. 25	02603	12. 0	68.8	69.9
									3. 12	21. 30	1. 46	0952	9. 54	02600	18. 0	63.7	64.0
									3. 21	20. 30	1. 57	0952 ***	14. 18	02817	21. 0	64.2	64.3
									3. 43	23. 10		***	14. 44	02790			
									4. 9	21. 15	2. 15	0936	18. 31	03285			

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

May 20 and 21. The Declination Magnet was in contact with some part of its apparatus; the results therefore are omitted, not being trustworthy.

VERTICAL FORCE.—May 20^d. 12^h. After this time the Photographic Trace was lost, owing to the pencil of light falling beyond the paper. On May 22^d. at 0^h. the adjustments were altered, so that the scale-reading was diminished by 22^{div}.7 or by 0.034005 parts of the whole Vertical Force.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
May 24 18. 58 19. 10 19. 25 20. 30 20. 50 21. 28 23. 59	21. 10. 5 12. 0 9. 0 9. 30 11. 30 9. 30 18. 15	May 24 21. 5 22. 15 23. 4 23. 37 23. 59	.0913 .0916 .0911 .0915 .0914														
May 25 0. 0 0. 15 0. 37 1. 0 1. 18 2. 44 3. 33 5. 56 6. 18 6. 28 7. 6 7. 55 8. 11 8. 43 9. 13 9. 16 9. 27 9. 41 10. 42 11. 0 11. 44 14. 44 16. 10 16. 39 18. 38 18. 44 19. 0 19. 12 20. 40 20. 54 21. 37 21. 44 21. 58 22. 25 22. 30 22. 43 22. 59 23. 10 23. 15 23. 59	21. 18. 15 20. 25 21. 50 20. 50 21. 40 20. 35 18. 5 17. 0 15. 55 16. 10 15. 5 16. 0 19. 20 16. 20 18. 30 17. 20 19. 0 17. 20 14. 30 18. 0 15. 30 18. 0 16. 0 14. 0 13. 40 13. 0 14. 30 13. 55 15. 30 14. 30 20. 30 19. 10 23. 30 22. 30 24. 10 23. 20 26. 0 25. 40 27. 0 27. 50	May 25 0. 0 4. 9 8. 51 23. 59	.0914 .0921 .0915 .0921 .0916 .0924 .0913 .0936 *** .0931 .0949 .0941 .0956 .0947 .0941 .0942 .0935 .0937 .0934 .0944 .0944 .0936 .0941 .0950 .0940 .0978 .0947 *** .0948 .0968 .0946 .0964 .0953 .0956 .0955 .0949 .0956 .0945 .0933 .0941 .0946 *** .0932 *** .0918 .0916 .0922 .0920 .0923	May 25 0. 0 4. 9 8. 51 23. 59	.02260 .02225 .02126 .02352 .02088	May 25 1. 0 3. 0 9. 0 21. 0	64.0 65.2 65.1 59.8	64.0 65.0 65.1 60.7	May 26 0. 0 0. 41 1. 0 1. 19 2. 7 2. 57 4. 0 5. 7 6. 15 6. 29 6. 49 7. 10 7. 45 8. 7 8. 20 9. 15 10. 11 10. 42 11. 8 11. 15 12. 10 12. 24 12. 31 13. 28 14. 15 14. 39 15. 11 15. 50 16. 42 17. 10 17. 38 17. 49 18. 44 19. 0 19. 40 20. 10 20. 41 20. 59 21. 5 21. 28 22. 45 22. 57 23. 59	21. 27. 50 25. 50 28. 30 27. 15 27. 50 25. 0 19. 10 16. 10 15. 0 15. 30 14. 30 15. 20 14. 30 15. 0 14. 10 15. 10 14. 10 15. 20 14. 30 15. 5 14. 30 16. 10 15. 30 17. 40 16. 0 16. 30 18. 20 15. 0 14. 20 12. 30 11. 10 12. 10 11. 20 13. 10 17. 55 16. 20 19. 10 18. 15 19. 5 19. 0 25. 25 24. 20 27. 30	May 26 0. 0 0. 37 *** 3. 20 3. 33 *** 4. 17 5. 47 6. 8 6. 32 6. 54 *** 7. 52 8. 42 9. 3 9. 15 9. 46 10. 2 10. 26 *** 13. 45 14. 17 16. 40 18. 36 19. 17 22. 10 22. 24 22. 53 (†)	.0923 .0913 *** .0936 .0935 *** .0949 *** .0948 .0946 .0952 .0944 *** .0951 .0945 .0949 .0946 .0946 .0948 .0944 *** .0939 .0945 .0945 .0938 .0926 .0925 .0919 .0929 (†)	May 26 1. 0 3. 0 3. 57 8. 26 13. 12 17. 26 18. 40 19. 26 23. 59	(†) .02043* .01972* .01920 .01554 .01793 .02188 .02090 .02109 .01870	May 26 1. 0 3. 0 22. 40	62.4 64.2 63.2 57.0	62.7 65.0 65.0 58.0
May 27 0. 0 0. 41 1. 18 1. 52 2. 17 3. 14 3. 46 5. 42 6. 55 8. 58 9. 47 10. 7	21. 27. 30 27. 40 25. 30 27. 0 25. 10 22. 30 18. 0 (†) 13. 0 13. 10 16. 10 15. 10 16. 30	May 27 0. 0 0. 37 1. 13 1. 42 2. 0 2. 15 2. 42 3. 7 3. 40 4. 4 4. 33 5. 0 5. 30	.0918 .0932 .0936 .0956 .0959 .0948 .0945 .0955 .0938 .0920 .0957 .0963 .0949	May 27 0. 0 4. 18 9. 35 16. 40 23. 59	.01870 .01588 .01194 .01682 .01790	May 27 8. 30 21. 0	60.0 58.0	61.7 58.6									

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.																																		
May 27 10. 45 11. 45 12. 32 13. 11 13. 30 14. 0 14. 44 15. 12 15. 28 16. 8 16. 42 16. 45 17. 36 17. 46 18. 11 19. 8 19. 15 19. 29 19. 47 19. 54 21. 44 21. 56 22. 12 23. 0	21. 12. 20 14. 15 16. 30 14. 50 20. 20 16. 30 17. 20 19. 10 18. 30 22. 30 21. 30 23. 0 15. 30 15. 30 12. 0 13. 20 11. 30 12. 30 10. 30 12. 20 15. 0 16. 30 15. 55 20. 30 (†)	May 27 5. 53 6. 20 7. 6 8. 58 9. 15 10. 0 11. 36 12. 50 13. 12 13. 27 14. 4 14. 47 21. 0	.0949 .0945 .0951 *** .0955 .0952 .0957 *** .0949 *** .0951 .0946 .0959 .0926 .0916 (†) .0926*	h n	h n	h n	o o	o o	May 28 0. 11 0. 51 2. 59 5. 40 6. 41 6. 55 9. 49 10. 42 11. 4 12. 59 15. 12 16. 54 17. 24 17. 57 18. 35 19. 8 19. 35 19. 47 19. 59 20. 31 20. 51 21. 21 21. 31 21. 42	(†) 21. 24. 20 22. 0 21. 5 13. 10 13. 20 15. 0 16. 0 13. 40 15. 30 15. 30 17. 10 13. 30 15. 0 12. 50 11. 25 15. 10 14. 45 13. 5 14. 30 12. 0 16. 0 15. 0 16. 30 15. 45	May 28 0. 0 2. 26 2. 47 3. 9 3. 27 3. 45 4. 7 4. 20 4. 47 5. 10 5. 30 5. 51 8. 45 9. 10 14. 45 15. 15 16. 0 17. 16	.0935 *** .0944 .0943 .0949 .0943 .0950 .0950 .0943 .0957 .0950 .0954 .0950 .0954 *** .0954 .0959 *** .0961 .0957 .0965 *** .0965 *** .0938 .0930 .0937 *** .0942 ***	May 28 0. 0 2. 15 8. 57 15. 32 17. 21 18. 20 23. 59	.01790 .01753 .01512 .01911 .01788 .01785 .01498	May 28 1. 0 3. 0 9. 0 21. 0	58.2 58.4 59.3 59.6 53.9 54.1	o o	o o	May 28 22. 18 22. 30 22. 40 23. 11 23. 59	21. 19. 0 18. 30 20. 0 19. 0 22. 0	May 28 23. 0 23. 59	.0936 *** .0944	h n	h n	May 28 23. 0 23. 59	.0936 *** .0944	h n	h n	May 29 0. 0 0. 40 1. 28 2. 12 2. 30 5. 10 9. 54 10. 54 12. 25 13. 18 14. 45 17. 13 18. 56 21. 51 22. 31 23. 30 23. 59	21. 22. 0 24. 50 21. 50 23. 0 21. 0 15. 30 15. 20 13. 30 15. 0 13. 10 15. 10 12. 0 10. 50 18. 40 19. 10 22. 30 22. 55	May 29 0. 0 0. 40 1. 10 1. 27 2. 7 2. 26 3. 33 3. 53 5. 2 5. 15 5. 33 6. 20 6. 33 6. 50 7. 15 7. 23 7. 34 8. 4 8. 17 8. 46 9. 51 10. 40 12. 37 13. 17 16. 46 18. 50 19. 50 20. 2 23. 30 23. 45 23. 59	0. 0 2. 51 10. 12 20. 29 23. 59	.0944 *** .0943 .0949 *** .0953 *** .0947 *** .0957 .0951 *** .0958 .0956 .0959 .0954 .0959 .0959 .0957 .0956 .0960 .0957 .0960 *** .0962 *** .0955 *** .0959 *** .0956 *** .0957 *** .0938 .0942 *** .0936 *** .0941 .0948 .0949	h n	h n	May 29 1. 0 3. 0 9. 0 21. 0	56.4 57.9 59.3 56.7 58.8 58.8 60.7 57.2	May 29 0. 0 2. 51 10. 12 20. 29 23. 59	.01498 .01328 .00862 .01342 .01248	h n	h n	May 30 0. 0 0. 47 4. 4 6. 7 6. 57 9. 43	21. 22. 55 23. 30 15. 20 14. 30 15. 50 16. 0	May 30 0. 0 0. 46 1. 10 1. 46 2. 10 2. 37	.0949 .0954 .0952 .0959 .0957 .0960	0. 0 1. 22 6. 44 9. 30 12. 30 17. 16	.01248 .01203 .00780 .00920 .01008 .01342	h n	h n	May 30 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0	58.0 58.7 60.0 62.4 61.5 61.2

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.																								
May 30 9. 58 10. 51 12. 55 13. 9 13. 16 13. 24 13. 47 15. 21 16. 0 16. 47 17. 27 17. 43 17. 58 18. 30 19. 41 22. 9 23. 43 23. 59	21. 17. 20 15. 30 15. 0 16. 10 15. 30 16. 10 14. 30 17. 10 14. 30 10. 30 8. 45 10. 30 9. 0 8. 30 9. 50 19. 5 27. 10 27. 20	May 30 3. 20 4. 16 4. 33 6. 32 9. 46 10. 11 11. 0 11. 58 13. 37 15. 24 17. 15 17. 32 18. 15 20. 32 23. 8	*0954 *** *0962 *0956 *** *0955 *** *0954 *0960 *0954 *** *0957 *** *0955 *** *0967 *** *0960 *0964 *0948 *0915 *0913 (†)	May 30 22. 30 23. 59	*01608 *01603	May 30 18. 0 21. 0	56. 0 56. 4	58. 0 58. 5	May 31 0. 0 0. 43 0. 57 1. 12 1. 50 2. 11 2. 35 3. 49 3. 58 4. 14 4. 22 4. 53 5. 7 5. 46 6. 51 9. 44 10. 13 10. 36 10. 55 11. 30 12. 30 14. 26 14. 55 15. 48 16. 51 17. 20 18. 10 18. 47 19. 12 19. 44 20. 39 22. 0 22. 36	21. 27. 20 27. 40 26. 0 26. 45 24. 50 25. 15 23. 0 20. 35 21. 0 19. 55 20. 10 18. 30 19. 30 17. 40 22. 0 21. 10 18. 30 18. 50 15. 50 19. 0 19. 55 18. 50 18. 30 *** 10. 55 15. 50 19. 0 19. 55 18. 50 18. 30 *** 16. 0 15. 50 13. 10 13. 45 12. 30 14. 5 15. 0 21. 20 21. 30	May 31 1. 32 2. 2 2. 30 3. 31 3. 58 4. 9 4. 18 4. 56 5. 0 5. 7 5. 24 6. 5 6. 59 7. 17 8. 4 9. 20 9. 55 10. 5 10. 20 10. 55 11. 4 11. 23 16. 45 17. 46 19. 10 19. 40 20. 22	(†) *0987 *1002 *0982 *** *0994 *1005 *1001 *1003 *0990 *0998 *0994 *0996 *0985 *0981 *0995 *0988 *0992 *** *0990 *** *0995 *0990 *0991 *0980 *0985 *0979 *** *0984 *0979 *** *0962 *0969 *0961	May 31 0. 0 3. 15 8. 27 14. 39 14. 51 15. 37 23. 59	*01603 *01630 *01560 *01672 *01643 *01672 *01340	May 31 0. 0 1. 0 3. 0 9. 0 21. 0	57. 6 57. 7 58. 1 58. 3 60. 0 61. 0 59. 0 59. 3	May 31 23. 59	21. 26. 0 23. 35 17. 30 16. 10 11. 40 13. 10 14. 15 16. 0 16. 0 17. 30 16. 20 17. 5 16. 10 16. 30 14. 50 14. 30 11. 10 10. 50 13. 0 19. 0 24. 30 (†)	May 31 23. 10 23. 59	*0948 *0961	June 1 0. 0 1. 0 3. 27 4. 12 4. 54 5. 15 7. 11 7. 40 8. 47 10. 12 10. 25 10. 36 10. 51 15. 13 16. 44 16. 53 18. 15 19. 25 20. 30 22. 17 23. 11	21. 26. 0 23. 35 17. 30 16. 10 11. 40 13. 10 14. 15 16. 0 16. 0 17. 30 16. 20 17. 5 16. 10 16. 30 14. 50 14. 30 11. 10 10. 50 13. 0 19. 0 24. 30 (†)	June 1 0. 0 1. 15 10. 25 19. 42 23. 0 23. 59	*0962 *0969 *0976 *0971 *0972 *0979 *0977 *0986 *0988 *0979 *0977 *0982 *0978 *0993 *0984 *0989 *** *0968 *0971 *0966 *** *0973 *0970 *0978 *0972 *0956 *0956 *0961 (†)	June 1 0. 0 1. 15 10. 25 19. 42 23. 0 23. 59	*01340 *01293 *00722 *0120 *01312 *01300	June 1 1. 0 3. 0 9. 0 21. 0	63. 0 63. 0 65. 2 66. 6 61. 7	June 2 1. 0 3. 0 5. 54 7. 0 9. 15 10. 56 15. 28 16. 43 17. 0 18. 51 19. 19 19. 29 20. 45 21. 28 22. 4 23. 51 23. 59	(†) 21. 25. 39* 23. 32* 16. 50 16. 45 18. 50 19. 30 17. 20 15. 0 13. 0 9. 30 10. 30 9. 30 13. 0 16. 20 16. 30 24. 50 24. 20	June 2 0. 0 1. 0 3. 0 5. 45 7. 28 8. 29 13. 42 16. 30 23. 59	*01300 (†) *01416* *01407* *01360 *01452 *01373 {*01178 *01026 *01183 *00738	June 2 1. 0 3. 0 9. 0 22. 30	61. 0 62. 3 61. 0 60. 7 56. 2 62. 0 63. 2 60. 7 56. 8	June 3 0. 0 1. 20 1. 35	21. 24. 20 26. 0 25. 30	June 3 0. 0 0. 41 1. 25	*0970 *0969 *0980	June 3 0. 0 {*00740 *00958	June 3 8. 30 21. 0	60. 2 61. 0 61. 2 59. 8

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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.				
June 3 2. 41 3. 54 5. 11 5. 29 6. 57 13. 13 15. 29 16. 45 17. 29 18. 2 18. 25 18. 45 19. 23 19. 48 20. 14 20. 44 21. 7 22. 44 23. 59	21. 25. 20 23. 0 18. 50 18. 55 16. 0 17. 15 16. 5 13. 35 8. 45 12. 30 10. 30 13. 20 11. 0 12. 30 11. 30 13. 55 13. 30 21. 20 27. 50	June 3 1. 45 2. 35 3. 30 4. 10 4. 23 5. 15 5. 45 6. 8 6. 25 6. 45 7. 11 10. 30 17. 0 18. 25 18. 39 18. 45 18. 50 19. 15 20. 16 22. 43 23. 59	*0977 *0987 *0988 *0995 *0988 *0988 *** *0988 *0995 *0987 *0996 *** *0987 *** *0984 *** *0972 *0980 *0976 *0981 *0970 *0958 *0941 *0952	June 3 3. 45 11. 41 20. 43 23. 59	*00943 *00639 *00924 *00770	June 3 h h o o			June 4 20. 10 20. 45 21. 6 21. 21 22. 40 23. 59	21. 9. 0 13. 30 14. 30 13. 40 19. 0 27. 0	June 4 21. 36 23. 0 23. 10 23. 59	*0937 *** *0946 *0941 *** *0940	June 4 h h o o			June 4 h h o o					
June 4 0. 0 0. 20 1. 45 2. 5 5. 54 5. 58 6. 28 7. 11 7. 51 8. 43 8. 57 9. 28 11. 7 11. 16 11. 37 11. 44 11. 57 12. 10 12. 26 13. 51 14. 28 15. 44 16. 27 17. 1 17. 26 17. 48 17. 53 18. 10 18. 23 19. 11 19. 47	21. 27. 50 28. 55 28. 40 28. 15 16. 40 16. 55 14. 35 14. 0 15. 50 16. 40 10. 0 10. 20 15. 40 15. 0 16. 20 15. 40 17. 0 16. 30 17. 20 16. 10 19. 0 15. 30 15. 0 13. 45 16. 20 14. 5 14. 30 13. 30 13. 10 8. 30 7. 50	June 4 0. 0 0. 35 1. 30 2. 5 2. 55 3. 6 3. 42 3. 48 4. 40 5. 0 5. 13 5. 46 6. 9 7. 2 7. 17 7. 52 8. 37 9. 15 11. 6 12. 38 13. 45 13. 15 13. 57 17. 56 19. 30 20. 33	*0952 *0952 *0963 *0976 *0980 *0976 *0982 *0980 *0986 *0981 *0991 *0979 *0988 *** *0978 *0986 *0981 *0988 *0970 *** *0967 *** *0975 *** *0970 *0977 *** *0972 *0950 *0953 ***	June 4 0. 0 5. 57 7. 40 12. 27 17. 37 21. 11 23. 59	*00770 *00450 *00526 *00633 *00982 *01183 *01100	June 4 1. 0 3. 0 9. 0 21. 0	63. 2 64. 3 63. 9 57. 3 62. 9 64. 4 64. 8 58. 5	June 4 h h o o		June 5 0. 0 0. 49 0. 57 1. 56 2. 43 3. 11 3. 19 3. 44 4. 10 5. 33 6. 30 7. 0 7. 38 7. 51 8. 22 9. 7 9. 42 9. 58 10. 11 11. 5 11. 53 12. 26 13. 0 14. 24 15. 43 18. 18 18. 30 18. 41 18. 44 18. 50 18. 58 19. 15 19. 30 19. 42 20. 41 20. 59 21. 40 21. 51 23. 17 23. 33 23. 46 23. 59	21. 27. 0 27. 5 26. 10 27. 45 24. 0 22. 50 23. 30 20. 25 19. 0 18. 0 16. 20 15. 0 15. 35 14. 50 14. 55 9. 30 14. 10 14. 15 15. 45 15. 55 14. 20 19. 0 13. 45 16. 20 16. 0 9. 50 10. 30 9. 40 10. 5 9. 0 10. 0 7. 40 9. 30 8. 50 12. 15 12. 10 14. 55 14. 30 25. 0 25. 0 26. 10 26. 40	June 5 0. 0 9. 45 20. 22 21. 6 23. 59	*0940 *** *0944 *0959 *0966 *0957 *0971 *0977 *0959 *0977 *0976 *0979 *0960 *0968 *0968 *0959 *0968 *0962 *0969 *0971 *0960 *0970 *0977 *** *0962 *0963 *0956 *0967	June 5 0. 0 9. 45 20. 22 21. 6 23. 59	*01100 *00624 *01330 *01265 *01128 *01203	June 5 1. 0 3. 0 9. 0 21. 0	61. 2 63. 0 63. 7 56. 3 61. 8 63. 0 64. 1 57. 2	June 5 h h o o		June 5 h h o o	
June 6 0. 0 0. 19 1. 0	21. 26. 40 26. 45 (†) 27. 1*	June 6 0. 0 3. 4 3. 38	*0967 *** *0979 *0971	June 6 0. 0 3. 0 9. 0	*01203* *01186* *01108* *00710*	June 6 0. 0 1. 0 3. 0 6. 0	57. 3 58. 0 59. 0 62. 0 58. 1 58. 3 60. 0 62. 0	June 6 h h o o		June 6 h h o o											

These indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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 6. The Photographic Trace for the Vertical Force Magnet was 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.																						
June 6 3. 0 6. 10 8. 38 10. 55 11. 18 11. 33 11. 59 12. 43 13. 3 14. 11 14. 28 15. 2 15. 17 15. 30 16. 10 16. 15 16. 32 16. 41 17. 24 18. 10 19. 26 20. 4 20. 16 21. 50 23. 0	21. 25. 56* 16. 0 15. 50 17. 55 15. 30 16. 20 12. 40 14. 15 12. 30 15. 45 14. 50 17. 45 16. 40 17. 25 14. 10 16. 0 14. 0 8. 30 10. 20 9. 30 14. 50 21. 20 (†)	June 6 3. 51 4. 13 4. 40 4. 52 6. 45 10. 0 11. 33 12. 10 19. 15 22. 5 22. 23 23. 15 23. 59	0.83 0.979 0.983 0.979 0.986 0.969 0.972 0.977 (†) 0.966 0.948 0.952 0.951 0.963	June 6 21. 0	0.1099*	June 6 9. 0 12. 0 18. 0 21. 0	62.5 62.0 58.0 59.0	62.5 61.9 58.8 59.0	June 6 20. 45 23. 59	21. 12. 0 24. 30	June 7 14. 4 15. 0 15. 47 16. 40 17. 6 19. 33 20. 53 22. 20 23. 59	0.970 0.971 0.976 0.973 0.974 0.959 0.955 0.937 0.958	June 7 0. 0 0. 16 0. 30 1. 14 1. 54 2. 40 5. 41 8. 59 9. 45 10. 15 10. 45 11. 16 11. 57 12. 20 12. 48 15. 39 16. 17 17. 39 17. 52 18. 9 18. 21 19. 30 20. 12 20. 39 20. 55 21. 56 23. 18 23. 45 23. 59	21. 24. 30 25. 15 22. 20 24. 40 22. 50 23. 0 14. 0 14. 15 10. 30 15. 20 8. 40 16. 5 10. 30 12. 20 11. 30 11. 50 14. 30 11. 30 10. 25 11. 0 9. 20 8. 30 10. 20 9. 0 14. 15 11. 40 18. 30 22. 30 21. 55	June 8 0. 0 0. 32 0. 48 1. 46 2. 17 2. 30 3. 3 3. 45 5. 0 5. 21 6. 35 6. 54 7. 5 7. 26 7. 50 10. 5 10. 40 11. 2 11. 19 11. 40 12. 5 13. 13 13. 40 15. 4 15. 55 16. 51 18. 8 19. 50 21. 21 23. 23 23. 47 23. 59	0.958 0.966 0.964 0.984 0.974 0.979 0.984 0.977 0.986 0.991 0.990 0.984 0.987 0.979 0.986 0.965 0.971 0.965 0.968 0.965 0.974 0.971 0.976 0.974 0.978 0.970 0.972 0.961 0.961 0.975 0.988 0.980	June 8 0. 0 4. 26 7. 39 10. 16 12. 27 13. 56 20. 29 23. 59	0.961 0.9590 0.9874 0.9995 0.9111 0.91070 0.91442 0.91488	June 8 1. 0 3. 0 9. 0 21. 0	61.0 63.3 64.8 59.0	61.3 63.7 65.2 60.0	June 7 0. 30 1. 12 1. 46 3. 42 4. 24 6. 44 9. 28 9. 59 10. 30 10. 44 11. 15 11. 30 12. 2 13. 30 15. 0 15. 49 16. 16 16. 42 17. 41 18. 13 19. 14 19. 41 19. 50 20. 17 20. 30	21. 26. 40 29. 30 29. 30 22. 20 18. 30 16. 40 17. 30 9. 30 14. 20 14. 30 12. 20 12. 55 11. 10 15. 15 15. 20 17. 10 16. 0 16. 15 11. 30 9. 45 11. 0 9. 55 11. 0 10. 40 12. 30	June 7 0. 0 1. 37 1. 51 2. 34 2. 53 3. 16 3. 35 4. 4 4. 17 5. 20 5. 43 6. 7 7. 4 7. 47 8. 2 8. 25 9. 46 10. 7 10. 25 10. 40 11. 5 11. 24 11. 46 13. 15	0.963 0.970 0.967 0.971 0.967 0.973 0.969 0.989 0.991 0.979 0.983 0.979 0.984 0.982 0.977 0.981 0.971 0.979 0.971 0.972 0.966 0.971 0.963 0.964	June 7 0. 29 1. 30 4. 45 11. 42 18. 13 18. 22 20. 13 21. 0 23. 59	(†) 0.1193 0.1228 0.1140 0.1050 0.1360 0.1322 0.1360 { 0.1300 0.1128 0.0961	June 7 1. 0 3. 0 9. 0 21. 0	58.3 58.7 59.8 60.0 57.0	58.8 58.2 59.3 60.3 58.0	June 9 0. 0 0. 36 0. 45 1. 49 2. 44 3. 0	21. 21. 55 22. 0 23. 30 23. 0 21. 0 21. 20	June 9 0. 0 0. 8 0. 35 0. 46 1. 38 2. 22	0.979 0.973 0.973 0.984 0.966 0.975	June 9 0. 0 2. 14 4. 12 10. 9 13. 54 15. 45	0.979 0.973 0.973 0.984 0.966 0.975	June 9 1. 0 3. 0 9. 0 22. 15	59.3 60.0 60.5 58.2	60.2 60.8 61.5 58.6
June 7 0. 30 1. 12 1. 46 3. 42 4. 24 6. 44 9. 28 9. 59 10. 30 10. 44 11. 15 11. 30 12. 2 13. 30 15. 0 15. 49 16. 16 16. 42 17. 41 18. 13 19. 14 19. 41 19. 50 20. 17 20. 30	21. 26. 40 29. 30 29. 30 22. 20 18. 30 16. 40 17. 30 9. 30 14. 20 14. 30 12. 20 12. 55 11. 10 15. 15 15. 20 17. 10 16. 0 16. 15 11. 30 9. 45 11. 0 9. 55 11. 0 10. 40 12. 30	June 7 0. 0 1. 37 1. 51 2. 34 2. 53 3. 16 3. 35 4. 4 4. 17 5. 20 5. 43 6. 7 7. 4 7. 47 8. 2 8. 25 9. 46 10. 7 10. 25 10. 40 11. 5 11. 24 11. 46 13. 15	0.963 0.970 0.967 0.971 0.967 0.973 0.969 0.989 0.991 0.979 0.983 0.979 0.984 0.982 0.977 0.981 0.971 0.979 0.971 0.972 0.966 0.971 0.963 0.964	June 7 0. 29 1. 30 4. 45 11. 42 18. 13 18. 22 20. 13 21. 0 23. 59	(†) 0.1193 0.1228 0.1140 0.1050 0.1360 0.1322 0.1360 { 0.1300 0.1128 0.0961	June 7 1. 0 3. 0 9. 0 21. 0	58.3 58.7 59.8 60.0 57.0	58.8 58.2 59.3 60.3 58.0	June 9 0. 0 0. 36 0. 45 1. 49 2. 44 3. 0	21. 21. 55 22. 0 23. 30 23. 0 21. 0 21. 20	June 9 0. 0 0. 8 0. 35 0. 46 1. 38 2. 22	0.979 0.973 0.973 0.984 0.966 0.975	June 9 0. 0 2. 14 4. 12 10. 9 13. 54 15. 45	0.979 0.973 0.973 0.984 0.966 0.975	June 9 1. 0 3. 0 9. 0 22. 15	59.3 60.0 60.5 58.2	60.2 60.8 61.5 58.6																						

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

(1)

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
June 9		June 9		June 9					June 10		June 10						
3. 15	21. 20. 30	2. 37	'0974	17. 38	'01688				21. 5	21. 20. 30	20. 30	'0946					
3. 31	21. 0	3. 32	'0987	20. 39	'01802					***	20. 48	'0955					
4. 27	18. 0	3. 49	'0982	23. 59	'01633				22. 44	25. 30		***					
8. 10	15. 0	4. 4	'0984						23. 3	28. 10	21. 47.	'0940					
10. 45	16. 0	4. 26	'0981						23. 39	26. 30		***					
10. 59	14. 55		***						23. 45	28. 0	22. 40	'0950					
11. 51	14. 5	5. 36	'0997						23. 54	26. 15	22. 51	'0941					
11. 59	15. 0		***						23. 59	26. 15		***					
12. 29	14. 30	6. 8	'0984								23. 27	'0945					
13. 15	16. 15		***								23. 46	'0960					
13. 40	18. 20	7. 25	'0989									(†)					
14. 14	19. 0		***						June 11		June 11		June 11		June 11		June 11
14. 48	10. 30	11. 43	'0981						0. 0	21. 26. 15	1. 0	'0987*	1. 0	'01203*	1. 0	60. 0	61. 0
15. 9	10. 0		***						1. 0	28. 45*	3. 0	'0968*	3. 0	'01335*	3. 0	62. 7	63. 0
15. 43	12. 50	13. 30	'0992						3. 0	20. 52*	9. 0	'0957*	9. 0	'00754*	9. 0	65. 0	65. 0
16. 29	10. 50	13. 52	'0985						9. 0	13. 46*	21. 0	'0938*	21. 0	'01248*	21. 0	61. 0	60. 7
16. 54	12. 30	14. 23	'0987						21. 0	12. 14*							
17. 12	18. 0	14. 50	'0977						June 12		June 12		June 12		June 12		June 12
17. 44	13. 30		***						1. 0	21. 19. 7*	0. 0	'0950	0. 0	'01280	1. 0	61. 6	61. 7
17. 51	15. 50	16. 6	'0983						3. 0	19. 29*	0. 15	'0954	3. 57	'01451	3. 0	62. 2	62. 3
17. 57	14. 0		***						9. 0	12. 19*	0. 50	'0945	10. 51	'01356	9. 0	62. 3	62. 9
18. 0	14. 30	18. 17	'0986						21. 0	12. 21*	3. 47	'0961	12. 52	'01410	21. 0	58. 9	58. 6
18. 47	10. 30		***									(†)	17. 50	'01606			
19. 19	9. 30	21. 30	'0959									'0970*	19. 51	'01590			
20. 54	12. 20	23. 7	'0969									'0979*	22. 27	'01448			
22. 44	18. 30	23. 23	'0960										23. 59	'01440			
23. 11	21. 20	23. 40	'0948											'01388			
23. 59	22. 30	23. 59	'0964						June 13		June 13		June 13		June 13		June 13
June 10		June 10		June 10		June 10			0. 0	21. 22. 30	0. 0	'0965	0. 0	'01633	8. 20	61. 8	63. 0
0. 38	24. 40	0. 38	'0978	2. 11	'01625	21. 0	57. 0	58. 0	0. 31	(†)	0. 23	'0958	0. 0	'01388	0. 0	61. 2	60. 8
1. 54	24. 50	1. 15	'0985	6. 27	'01424				2. 22	21. 0	0. 52	'0967	1. 30	'01250	1. 0	62. 2	61. 6
2. 27	22. 30		***	10. 15	'01300				3. 23	19. 50	1. 52	'0959	7. 9	'00782	3. 0	64. 0	63. 7
3. 19	22. 10	2. 10	'0996	13. 23	'01349				4. 17	16. 10	2. 19	'0966	8. 57	'00868	6. 0	64. 5	63. 6
5. 34	17. 30	2. 43	'0981	14. 18	'01315				5. 11	14. 10	2. 42	'0959	13. 18	'01000	9. 10	64. 0	63. 3
12. 45	15. 30		***	16. 35	'01510				5. 57	14. 0	3. 17	'0968	20. 28	'01522	12. 0	62. 5	62. 5
12. 49	18. 30	5. 17	'0991	19. 0	'01701				6. 26	12. 35		***	23. 59	'01426	18. 0	56. 7	57. 2
13. 4	14. 0		***	21. 15	'01518				9. 15	13. 45	4. 46	'0965			21. 0	58. 9	58. 3
13. 24	21. 17. 0	8. 45	'0981	23. 59	'01500				9. 45	15. 45		***					
14. 20	20. 58. 40		***						10. 14	10. 15	6. 52	'0959					
14. 43	21. 17. 0	12. 40	'0981						10. 53	12. 20	7. 45	'0947					
15. 17	6. 30	12. 47	'1008						11. 58	10. 30	8. 17	'0950					
15. 59	3. 25	13. 6	'0989						12. 25	11. 30	8. 42	'0947					
16. 30	7. 0		***						13. 10	10. 0	9. 40	'0960					
16. 48	6. 15	13. 33	'1010						15. 19	11. 30		***					
17. 10	8. 30	14. 36	'0949						15. 38	10. 20	11. 20	'0952					
17. 28	14. 30	14. 56	'0978						17. 5	9. 10		***					
17. 42	12. 30		***						18. 40	9. 30	17. 20	'0965					
17. 59	15. 50	16. 11	'0994						19. 7	8. 0		***					
18. 13	12. 10		***							***	19. 15	'0945					
18. 44	10. 30	17. 15	'0969						19. 56	9. 50		***					
18. 51	13. 20		***						20. 15	12. 30	21. 46	'0936					
19. 12	13. 20	18. 6	'0991						20. 24	12. 0	22. 20	'0941					
19. 27	10. 30		***						21. 15	14. 10	23. 59	'0939					
20. 50	21. 50	19. 27	'0944						21. 28	16. 30							
			***						23. 59	21. 15							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the readings will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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 11. The Photographic Traces 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
June 14 0. 0	21. 21. 15	June 14 0. 0	.0939 ***	June 14 0. 0	.01426	June 14 0. 0	61. 0	60. 4	June 15 13. 6	0. 0	June 15 13. 6	.0977 ***	June 16 0. 0	.01466	June 16 1. 0	64. 0	64. 7
0. 23	22. 10			0. 59	.01390	1. 0	61. 7	61. 2	16. 33	3. 6	3. 6	.0976 ***	1. 40	.01170	3. 0	65. 0	66. 0
2. 30	21. 15	3. 45	.0957 ***	6. 13	.00886	3. 0	63. 3	62. 6	21. 0	11. 30	1. 40	.0960	3. 15	.01242	9. 0	65. 6	66. 2
3. 27	18. 10			7. 46	.01011	9. 0	64. 2	64. 3	23. 59	10. 10	3. 4	.0971	5. 45	.01222	22. 45	60. 0	61. 7
3. 44	18. 10	6. 2	.0960 ***	12. 0	.01147	21. 0	57. 0	57. 7	0. 0	7. 24	4. 32	.0971 ***	7. 24	.01268			
4. 52	14. 55			19. 29	.01730				0. 0	12. 58	5. 20	.0965	12. 58	.01300			
6. 51	11. 50	8. 40	.0952	21. 10	.01788				3. 6	15. 10	5. 50	.0970 ***	15. 10	.01400			
9. 10	13. 30	10. 46	.0957		.01862				3. 41	18. 14	7. 32	.0964 ***	18. 14	.01502			
10. 19	13. 20	11. 50	.0954 ***	23. 59	.01850				5. 22	18. 31	17. 20	.0974 ***	18. 31	.01642			
10. 30	14. 10								8. 32	18. 45	20. 36	.0956	19. 14	.01820			
11. 35	13. 20	14. 32	.0960						12. 9	19. 14	22. 10	.0954	19. 24	.01872			
11. 58	11. 30	14. 53	.0968 ***						15. 43	19. 49	23. 17	.0960	19. 49	.01880			
12. 14	12. 30								21. 1	20. 20	23. 59	.0961	20. 20	.01883			
12. 28	11. 30	17. 34	.0961 ***						23. 59	23. 10	22. 20		23. 10	.01967			
14. 21	12. 0								0. 0	23. 59	22. 20		23. 59	.02102			
14. 56	15. 0	18. 37	.0968						0. 41	0. 0	21. 22. 20	.0961	0. 0	.02102	8. 5	59. 7	60. 2
15. 19	12. 30	20. 11	.0968						0. 30	0. 41	22. 30	.0958	7. 22	.02470	21. 0	57. 6	58. 2
16. 40	8. 30	22. 1	.0952 ***						1. 42	1. 47	24. 20	.0971	22. 30	.01872			
16. 52	8. 40								3. 26	3. 26	21. 30	.0972	23. 59	.01820			
17. 28	5. 50	23. 59	.0956						4. 27	4. 27	18. 0	.0964		.01803			
18. 10	12. 30								4. 52	4. 52	17. 55	.0972					
18. 24	12. 35 ***								5. 43	5. 43	14. 0	.0970					
18. 43	14. 30								8. 55	8. 55	***	.0991					
18. 54	13. 0								9. 14	9. 14	5. 8	.0988					
19. 0	15. 0								14. 21	14. 21	5. 33	.0988					
19. 14	12. 30 ***								14. 43	14. 43	6. 0	.0993					
21. 11	12. 0								15. 0	15. 0	6. 10	.0993					
21. 58	15. 0								15. 29	15. 29	6. 43	.1001					
22. 14	13. 50								16. 15	16. 15	15. 0	.0989					
22. 41	16. 50								16. 43	16. 43	9. 32	.0989					
23. 59	19. 30								17. 37	17. 37	13. 45	.0984					
June 15 0. 0	21. 19. 30	June 15 0. 0	.0956	June 15 0. 0	.01850	June 15 1. 0	59. 0	60. 0	17. 37	17. 37	15. 50	.0995	17. 37	.0995			
1. 23	22. 20	0. 56	.0970 ***	3. 16	.01733	3. 0	61. 0	61. 7	17. 59	17. 59	10. 0	.0995	17. 59	.0995			
3. 43	17. 55			6. 29	.01395	9. 0	64. 0	65. 0	18. 25	18. 25	7. 30	.0990	18. 25	.0990			
6. 0	15. 0	2. 32	.0979 ***	10. 8	.01137	21. 0	60. 7	60. 8	19. 25	19. 25	7. 20	.0950	19. 25	.0950			
6. 11	16. 20				.01170				20. 58	20. 58	12. 0	.0963	20. 58	.0963			
6. 50	15. 10	3. 26	.0978	13. 40	.01240				22. 5	22. 5	19. 0		22. 5				
8. 2	14. 45	3. 40	.0987 ***	20. 24	.01552				23. 59	23. 59	23. 30		23. 59				
8. 13	13. 45 ***			22. 41	.01590				June 18 0. 0	June 18 21. 23. 30	0. 0	.0963	June 18 0. 0	.01803	June 18 1. 0	61. 0	61. 7
15. 21	12. 50	5. 50	.0979	23. 59	.01466				1. 27	1. 27	26. 15	.0967 ***	1. 23	.01700	3. 0	64. 0	65. 0
15. 32	11. 30	6. 2	.0995 ***														
18. 0	6. 50 ***	6. 53	.0976 ***														
20. 40	12. 30	7. 46	.0978														
21. 33	12. 30	8. 2	.0978														
23. 59	19. 20	8. 11	.0976 ***														
		9. 22	.0968														
		9. 33	.0978														
		9. 40	.0969														
		9. 52	.0977														
		10. 2	.0968 ***														

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.							
June 18 5. 0 5. 52 6. 44 7. 28 7. 45 8. 26 8. 55 9. 12 9. 19 9. 24 10. 7 10. 23 10. 51 11. 14 11. 44 11. 59 12. 44 13. 10 13. 29 13. 58 14. 16 14. 39 15. 16 15. 45 16. 15 16. 36 16. 43 17. 27 17. 42 18. 44 18. 51 19. 15 19. 41 20. 26 21. 6 21. 40 22. 22 23. 59	21. 16. 0 15. 45 13. 15 13. 20 12. 15 13. 50 11. 30 12. 40 11. 30 13. 10 12. 0 13. 40 11. 20 6. 20 11. 30 10. 0 13. 30 13. 45 11. 30 14. 30 11. 2 14. 30 11. 15 12. 0 11. 36 12. 30 11. 45 11. 0 12. 3 13. 15 10. 25 11. 0 8. 0 9. 30 8. 0 6. 40 8. 45 8. 30 9. 0 13. 45 13. 0 21. 27 13. 50 22. 7 23. 10 23. 59	June 18 1. 40 2. 24 3. 4 4. 50 5. 32 7. 5 7. 22 7. 40 8. 36 8. 45 9. 0 9. 13 9. 27 10. 11 10. 33 11. 2 11. 15 11. 36 11. 45 12. 3 12. 50 13. 18 13. 27 13. 45 14. 28 16. 28 17. 30 18. 15 20. 20 21. 27 21. 46 22. 7 23. 10 23. 59	0960 0967 0967 0956 0965 0984 0985 0978 0984 0964 0970 0955 0964 0958 0964 0956 0956 0974 0964 0953 0960 0955 0967 0966 0956 0967 0973 0968 0974 0965 0960 0949 0952 0949 0953 0957	June 18 2. 13 5. 57 8. 41 12. 42 19. 32 23. 59	01618 00922 01228 01369 01728 02103	June 18 9. 20 21. 0	68. 2 59. 8 68. 8 60. 7	June 19 0. 0 1. 11 3. 24 5. 15 7. 42 9. 58 13. 35 15. 42 16. 11 16. 29 17. 54 18. 16 18. 32 20. 28 21. 46 22. 11 23. 43 23. 59	21. 10. 30 8. 30 10. 0 21. 0 21. 21. 0 22. 5 20. 10 16. 0 14. 0 16. 30 14. 50 12. 50 11. 5 11. 40 7. 50 9. 0 7. 40 11. 0 14. 0 16. 30 21. 10 21. 20	June 19 11. 46 12. 20 13. 0 17. 30 21. 7 23. 59	0974 0978 0966 0976 0950 0953	June 20 0. 0 1. 11 3. 24 5. 15 7. 42 9. 58 13. 35 15. 42 16. 11 16. 29 17. 54 18. 16 18. 32 20. 28 21. 46 22. 11 23. 43 23. 59	21. 21. 0 22. 5 20. 10 16. 0 14. 0 16. 30 14. 50 12. 50 11. 5 11. 40 7. 50 9. 0 7. 40 11. 0 14. 0 16. 30 21. 10 21. 20	June 20 0. 0 1. 20 3. 49 10. 55 19. 5 23. 59	0953 0968 0960 0972 0970 0976 0968 0967 0976 0970 0954 0950 0945 0962	June 21 0. 0 0. 12 0. 19 1. 0 1. 14 1. 39 1. 51 2. 50 3. 35 4. 15 5. 57 6. 10 7. 5 8. 44 9. 20 9. 46 10. 13 11. 14 11. 21 11. 54 12. 42 12. 57 13. 28 13. 42 14. 9 14. 13 14. 26 14. 36	21. 21. 20 21. 50 26. 30 23. 45 22. 40 22. 50 23. 45 22. 50 19. 30 18. 45 13. 30 14. 0 12. 30 19. 30 13. 50 14. 30 16. 50 13. 30 14. 55 12. 10 11. 17 14. 30 20. 25 13. 30 14. 15 12. 0 13. 0 11. 15 12. 0	June 21 0. 0 8. 57 11. 30 12. 45 13. 11 14. 36 17. 26 20. 21 20. 42 23. 59	0962 0962 0979 0970 0985 0950 0967 0967 0967 0974 0989 0971 0973 0965 0973 0970 0973 0973 0966 0979 0960 0969 0960 0966 0964	June 21 0. 0 1. 0 3. 0 9. 0 21. 0	02257 01769 01720 01748 01712 01784 02046 02210 02250 02180	June 21 0. 0 1. 0 3. 0 9. 0 21. 0	63. 6 64. 7 66. 0 67. 2 68. 1 62. 0	64. 0 64. 9 67. 0 68. 1 63. 0
June 19 0. 0 1. 11 4. 7 6. 26 7. 50 8. 13 8. 46 10. 14 11. 21 12. 5 12. 58 13. 59 14. 51 15. 12 15. 51 16. 16	21. 23. 40 24. 30 17. 0 13. 45 13. 30 14. 15 13. 30 16. 20 15. 45 10. 30 14. 15 15. 5 14. 5 14. 50 13. 20 13. 10	June 19 0. 0 1. 30 6. 37 12. 44 19. 13 23. 59	0957 0970 0964 0969 0976 0977 0971 0977 0975 0983 0984 0990 0975 0983 0973	June 19 0. 30 6. 37 12. 44 19. 13 23. 59	02103 02110 01927 01922 02228 02185	June 19 1. 0 3. 0 9. 0 21. 0	61. 3 63. 0 64. 0 62. 0 62. 4	June 19 61. 3 63. 0 64. 0 62. 4	June 19 0. 0 1. 11 4. 7 6. 26 7. 50 8. 13 8. 46 10. 14 11. 21 12. 5 12. 58 13. 59 14. 51 15. 12 15. 51 16. 16	21. 23. 40 24. 30 17. 0 13. 45 13. 30 14. 15 13. 30 16. 20 15. 45 10. 30 14. 15 15. 5 14. 5 14. 50 13. 20 13. 10	June 19 0. 0 1. 30 6. 37 12. 44 19. 13 23. 59	0957 0970 0964 0969 0976 0977 0971 0977 0975 0983 0984 0990 0975 0983 0973	June 19 0. 30 6. 37 12. 44 19. 13 23. 59	02103 02110 01927 01922 02228 02185	June 19 1. 0 3. 0 9. 0 21. 0	61. 3 63. 0 64. 0 62. 4	June 19 61. 3 63. 0 64. 0 62. 4							

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
June 21 15. 0	21. 8. 30 ***	June 21 19. 38	*0956 ***						June 23 21. 13	21. 7. 50	June 23 23. 59	*0951					
15. 39	12. 0 ***	23. 15	*0934 (†)						23. 59	20. 15							
16. 22	10. 0								June 24 0. 0	21. 20. 15	June 24 0. 0	*0951 ***	June 24 0. 0	*01808	June 24 8. 29	69. 4	69. 7
19. 5	8. 0								1. 27	22. 40			2. 52	*01696	21. 0	62. 3	63. 0
19. 27	10. 30								3. 13	20. 30	0. 57	*0953	5. 46	*01506			
19. 45	10. 0								3. 44	18. 10	1. 26	*0968	10. 0	*01400			
19. 56	11. 0								4. 28	18. 55	2. 10	*0956	14. 48	*01633			
20. 1	10. 0								4. 47	16. 50	2. 52	*0976	23. 21	*02410			
20. 23	12. 30									***	3. 5	*0970	23. 59	*02340			
20. 54	12. 0								6. 45	16. 10	3. 26	*0990					
21. 42	13. 5								7. 10	17. 30	3. 45	*0975					
22. 11	15. 10								7. 55	15. 30	3. 52	*0984					
23. 30	22. 45								8. 15	16. 10	4. 17	*0976					
23. 59	23. 40								8. 31	15. 30	4. 36	*0982					
June 22 0. 0	21. 23. 40	June 22 1. 0	*0939*	June 22 0. 0	*02180	June 22 1. 0	65. 3	66. 0	8. 47	17. 15	4. 53	*0964 ***					
0. 29	23. 0	3. 0	*0956*	1. 10	*02135	3. 0	67. 7	68. 0	9. 15	15. 30	***						
0. 44	23. 50	9. 0	*0953*	5. 37	*01570	9. 0	68. 1	68. 5	9. 45	16. 30	5. 40	*0976 ***					
2. 48	21. 40	21. 0	*0950*	8. 22	*01346	21. 0	62. 7	63. 0	10. 0	15. 50	***						
6. 16	11. 10			12. 42	*01470				11. 44	16. 50	10. 37	*0958 ***					
9. 39	12. 20			19. 29	*01948				12. 39	13. 40	***						
10. 10	13. 15			23. 59	*02138				13. 9	18. 0	12. 10	*0971					
15. 30	13. 10								13. 18	16. 30	12. 33	*0962					
17. 19	9. 5								13. 55	18. 10	13. 10	*0970					
17. 41	6. 0								14. 13	16. 0	13. 36	*0965 ***					
17. 58	8. 0								14. 51	17. 55	17. 15	*0976 ***					
18. 10	6. 50								15. 10	16. 0	***						
19. 7	4. 55								15. 30	15. 0	18. 40	*0974 ***					
19. 18	5. 50								15. 47	17. 0	***						
19. 26	5. 35								16. 13	13. 30	19. 52	*0956 ***					
19. 44	7. 0								16. 39	14. 55	23. 59	*0952					
19. 54	6. 0									***							
20. 39	10. 0								17. 21	14. 50							
21. 28	10. 0								17. 45	12. 0							
22. 55	17. 45								17. 54	12. 50							
23. 59	21. 50								18. 12	9. 50							
June 23 0. 0	21. 21. 50	June 23 0. 4	(†) *0954	June 23 0. 0	*02138	June 23 1. 0	64. 7	64. 8	18. 25	11. 20							
0. 38	23. 30	2. 13	*0970	1. 49	*02126	3. 0	66. 5	67. 2	18. 41	10. 0							
1. 9	23. 50	2. 22	*0967	11. 48	*01516	9. 0	69. 0	69. 2	18. 49	11. 50							
1. 51	22. 0	2. 47	*0975 ***	19. 36	*01775	21. 25	65. 0	66. 0	19. 14	12. 0							
2. 13	22. 0			23. 59	*01808				19. 31	10. 20							
2. 25	21. 0								20. 0	13. 30							
2. 56	20. 55	3. 36	*0973						20. 18	11. 30							
3. 34	19. 0	3. 50	*0980 ***						20. 36	13. 40							
3. 44	19. 30								21. 11	13. 0							
4. 40	17. 30	6. 56	*0982						21. 42	15. 5							
5. 12	17. 15	8. 22	*0971						22. 40	17. 20							
5. 39	16. 10	13. 50	*0971						23. 28	23. 0							
8. 24	14. 10	16. 43	*0977						23. 59	23. 30							
15. 50	13. 10	19. 41	*0954						June 25 0. 0	21. 23. 30	June 25 0. 0	*0952	June 25 0. 0	*02340	June 25 1. 0	62. 8	63. 0
16. 45	11. 45	20. 3	*0955						0. 27	24. 40	0. 53	*0961	1. 48	*02180	3. 0	64. 0	65. 0
18. 7	7. 10	21. 22	*0946 ***						0. 48	24. 0	1. 10	*0966	2. 42	*02157	9. 0	66. 4	67. 0
18. 40	6. 30								1. 18	27. 30	1. 22	*0959	10. 26	*01564	21. 0	61. 0	62. 0
									2. 5	23. 55	1. 50	*0966	22. 4	*02053			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.
 June 22. The Photographic Trace for the Horizontal Force Magnet was too faint for use.

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
June 25 5.30 6.57 8.30 9.29 10.57 11.19 11.41 14.14 14.31 15.10 15.16 17.13 18.7 18.32 19.44 20.7 20.49 22.44 23.59	21. 17. 50 14. 10 13. 0 15. 15 *** 10. 30 14. 0 12. 0 *** 13. 30 15. 20 12. 20 13. 0 *** 11. 0 13. 30 7. 5 *** 8. 0 13. 20 9. 0 14. 40 16. 30 19. 0	June 25 1.57 2.13 2.27 *** 3.53 *** 5.32 5.53 6.45 7.7 7.32 7.56 *** 10.45 11.15 11.26 *** 12.52 13.40 14.7 14.40 *** 18.10 19.53 21.46 23.59	'0962 '0967 '0965 *** '0967 *** '0980 '0969 '0982 '0972 '0977 '0970 *** '0967 '0974 '0968 *** '0960 '0964 '0956 '0963 *** '0972 *** '0950 *** '0957 *** '0947	June 25 23.59	'02047												
June 26 0.0 0.11 0.50 2.49 3.42 5.44 7.12 9.39 12.11 12.29 13.5 16.19 16.45 17.13 17.28 17.36 17.44 17.59 18.37 18.43 18.54 19.8 19.14 19.29 19.44 19.57	21. 19. 0 18. 25 20. 50 20. 30 18. 10 16. 0 13. 0 13. 20 15. 10 14. 10 16. 15 (†) 9. 30 9. 0 7. 15 7. 50 7. 0 7. 50 5. 45 6. 0 4. 20 5. 30 2. 0 21. 3. 45 20. 59. 20 21. 4. 15 6. 50	June 26 0.0 9.51 19.13 22.21 23.59	'0947 *** '0965 '0961 '0966 *** '0968 *** '0975 *** '0970 '0960 *** '0966 *** '0960 '0954 '0942 '0948 *** '0940 '0957 '0969	June 26 0.0 9.51 19.13 22.21 23.59	'02047 '01274 '01930 '02052 '02071	June 26 1.0 3.0 9.0 21.0	64.0 66.3 67.0 67.0 60.8	64.4 67.0 68.0 61.3									
June 26 0.0 0.11 0.50 2.49 3.42 5.44 7.12 9.39 12.11 12.29 13.5 16.19 16.45 17.13 17.28 17.36 17.44 17.59 18.37 18.43 18.54 19.8 19.14 19.29 19.44 19.57	21. 19. 10 21. 50 20. 30 *** 17. 55 *** 13. 30 *** 15. 0 12. 10 16. 10 10. 20 17. 50 20. 30 13. 20 15. 50 10. 30 11. 30 (†) 11. 0 9. 50 10. 20 9. 30 7. 45	June 26 0.0 9.51 19.13 22.21 23.59	'0961 *** '0954 *** '0961 *** '0956 '0965 '0961 '0965 '0959 '0968 '0986 '0981 '1000 '0987 '0995 '0991 '0998 '0981 '0984 *** '0975 ***	June 26 0.0 9.51 19.13 22.21 23.59	'02070 '02021 '01780 '01572 '01666 '01811 '02148 '02253 '02203	June 26 0.0 3.0 9.0 21.0	64.3 65.0 66.5 64.5 59.0	64.5 65.3 67.2 65.0 59.0									
June 27 1.0 2.40 3.39 5.11 7.12 7.46 8.42 11.25 12.11 16.24 16.47 18.43 19.59 20.40 23.59	21. 21. 59* 27. 30 22. 0 18. 5 15. 0 15. 40 14. 55 15. 40 *** 14. 30 *** 13. 40 12. 20 9. 50 11. 0 10. 50 19. 10	June 27 0.0 5.19 10.14 20.15 23.59	'0969 '0967 '0960 '0963 '0959 '0973 '0958 '0984 '0976 *** '0981 6.53 '0982 '0977 '0983 '0980 '0950 '0942 '0957 '0961	June 27 0.0 5.19 10.14 20.15 23.59	'02071 '02017 '01900 '02169 '02070	June 27 0.0 1.0 3.0 6.0 9.0 12.0 18.0 21.0	61.7 62.0 62.8 63.3 63.5 62.6 59.8 63.0	62.3 62.7 63.5 63.5 64.0 63.5 60.5 62.0									
June 28 0.0 0.59 1.39 4.55 7.28 8.45 9.18 9.45 10.21 11.10 11.50 12.28 12.45 13.39 13.44 14.39 14.56 15.20 16.19 16.43	21. 19. 10 21. 50 20. 30 *** 17. 55 *** 13. 30 *** 15. 0 12. 10 16. 10 10. 20 17. 50 20. 30 13. 20 15. 50 10. 30 11. 30 (†) 11. 0 9. 50 10. 20 9. 30 7. 45	June 28 0.0 5.19 10.14 20.15 23.59	'0961 *** '0954 *** '0961 *** '0956 '0965 '0961 '0965 '0959 '0968 '0986 '0981 '1000 '0987 '0995 '0991 '0998 '0981 '0984 *** '0975 ***	June 28 0.0 5.19 10.14 20.15 23.59	'02070 '02021 '01780 '01572 '01666 '01811 '02148 '02253 '02203	June 28 0.0 1.0 3.0 6.0 9.0 12.0 18.0 21.0	64.3 65.0 66.5 64.5 59.0	64.5 65.3 67.2 65.0 59.0									

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
June 28		June 28				June 29			June 29						June 30		
17. 26	21. 10. 10	10. 52	·0975	h m		16. 30	20. 57. 0	14. 17	·0960	b n					0. 0	21. 28. 10	0. 26
17. 55	10. 0	11. 13	·0970			16. 45	59. 30	14. 26	·0973						0. 35	29. 30	0. 43
18. 40	11. 0	11. 32	·0969			16. 58	20. 56. 50	14. 43	·0953						1. 11	28. 40	1. 17
19. 21	9. 50	12. 4	·0976			17. 15	21. 0. 25	14. 52	·0959						1. 30	34. 55	1. 26
20. 58	12. 20	12. 43	·0970			17. 22	20. 59. 45	15. 6	·0953						1. 43	34. 10	1. 30
23. 59	24. 0	12. 59	·0973			17. 38	21. 4. 45	***	***						1. 49	35. 30	1. 37
		13. 15	·0968			17. 44	21. 2. 50	15. 47	·0974						1. 59	35. 25	1. 43
		14. 22	***			18. 6	20. 43. 15	16. 20	·0948						2. 23	30. 0	1. 45
		15. 0	·0978			18. 11	44. 40	16. 35	·0959						2. 43	32. 5	1. 50
		15. 47	***			18. 13	43. 55	16. 47	·0950						3. 0	28. 20	2. 20
		17. 46	·0965			18. 26	48. 40	17. 2	·0950						3. 51	***	2. 43
		21. 17	***			18. 40	42. 20	17. 4	·0943						5. 19	23. 30	3. 20
		23. 59	·0980			18. 56	55. 10	17. 51	·0973						5. 27	21. 30	3. 24
			·0976			19. 11	20. 52. 50	18. 8	·0966							***	3. 30
			***			19. 30	21. 4. 10	18. 52	·0911								
			·0952			19. 45	20. 50	***	***								
			***			19. 54	14. 20	19. 13	·0914								
			·0954			20. 0	16. 10	19. 36	·0942								
						20. 4	15. 20	19. 42	·0935								
						20. 13	19. 55	19. 50	·0952								
June 29		June 29		June 29		June 29				June 30				June 30			
0. 0	21. 24. 0	0. 0	·0954	0. 0	·02203	1. 0	61. 0	61. 4	0. 0	(†)	0. 0	·0901	0. 0	1. 0	60. 0	60. 7	
1. 31	24. 50	0. 33	·0960	5. 21	·01410	3. 0	62. 3	63. 2	·0909		2. 30	·01790	2. 30	3. 0	61. 0	61. 8	
4. 21	18. 0		(†)	8. 55	·01243	9. 0	63. 2	64. 3	·0899		8. 42	·01500	8. 42	9. 0	61. 8	62. 2	
6. 30	14. 5	1. 0	·0956*	11. 0	·01207	21. 0	59. 0	60. 1	·1000		9. 22	·01440	9. 22	21. 43	57. 0	57. 2	
7. 29	15. 0	3. 15	·0962	12. 23	·01255				·0992		10. 42	·01445	10. 42				
8. 56	15. 0	4. 7	·0963	13. 29	·01182				·0999		11. 47	·01373	11. 47				
9. 4	16. 0	4. 10	·0956	14. 55	·01222				·0982		12. 3	·01428	12. 3				
9. 18	14. 0	4. 30	·0965	16. 28	·01360				·0987		12. 26	·01300	12. 26				
9. 27	14. 30		***	17. 47	·01382				·0995		12. 46	·01368	12. 46				
9. 40	13. 55	7. 46	·0967	18. 2	·01330				·0987		13. 13	·01264	13. 13				
9. 47	17. 30	8. 7	·0961	19. 0	·01449				·0996		13. 32	·01410	13. 32				
9. 54	16. 35		***	19. 30	·01460				·0989		14. 14	·01407	14. 14				
10. 14	17. 0	9. 22	·0959	19. 43	·01508				·0971		14. 22	·01450	14. 22				
10. 30	18. 0	9. 33	·1008	20. 3	·01492				·0978		15. 8	·01348	15. 8				
10. 51	16. 45	9. 47	·0982	22. 2	·01647				·0971		15. 17	·01364	15. 17				
10. 57	18. 0	9. 58	·0989	23. 2	·01644				·0978		15. 30	·01322	15. 30				
11. 18	6. 5	10. 10	·0985	23. 16	·01682				·0964		15. 49	·01380	15. 49				
11. 25	7. 20	10. 20	·0991	23. 31	·01657				·0969								
11. 29	6. 20	10. 36	·0986	23. 59	·01700				·0961								
11. 44	9. 30	10. 47	·0992						***								
11. 52	9. 55	10. 56	·0968						***								
11. 56	8. 0		***						***								
12. 0	8. 45	11. 23	·0956						***								
12. 6	7. 30	11. 30	·0970						***								
12. 11	8. 50	11. 40	·0961						***								
12. 21	7. 10	11. 46	·0965						***								
12. 51	15. 45	11. 51	·0956						***								
13. 10	21. 13. 55	12. 3	·0970						***								
13. 42	20. 53. 50		***						***								
13. 51	57. 30	12. 17	·0971						***								
13. 54	56. 30	12. 21	·0986						***								
13. 59	57. 50	12. 30	·0974						***								
14. 5	57. 10	12. 36	·0983						***								
14. 19	57. 50	13. 5	·0961						***								
	(†)	13. 10	·0965						***								
15. 45	57. 20	13. 15	·0954						***								
16. 11	20. 57. 10	13. 37	·0989						***								
16. 19	21. 0. 45	13. 45	·0976						***								
			***						***								

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
June 30 5.44	21. 20. 30 ***	June 30 3.52	0959	June 30 16.11	01362				June 30 21.51	21. 13. 20 (†)	June 30 18.33	0908					
5.56	21.50	4.4	0966	17.37	01700				23.46	27.0	18.51	0924					
6.12	19.30	4.33	0961	18.48	01782				23.59	32.45	19.26	0928					
6.37	20.10	***	0979	19.27	01763						20.45	0918					
7.10	17.10	4.56	0968	21.44	01851						20.51	0884					
7.29	18.5	***	0968	22.45	01713						21.7	0920					
7.41	17.30	5.7	0973	23.59	01830						21.38	0922					
7.56	21.30	5.13	0960								22.6	0950					
8.18	14.20	5.16	0970								22.37	0986					
8.28	19.0	5.23	0960								22.45	0983					
8.42	13.5	***	0962								22.50	0986					
9.15	20.0	5.47	0962								23.4	0989					
9.31	13.30	***	0975								23.10	0903					
9.43	12.30	6.18	0975								23.17	0898					
9.59	15.50	***	0964								23.33	0903					
10.5	15.40	6.58	0964								23.40	0932					
10.21	17.30	7.15	0973								23.46	0916					
10.43	12.30	7.33	0966								23.52	0918					
11.21	21. 6. 25	7.45	0975								23.59	0900					
11.43	20. 57. 15	8.6	0960														
12.8	21. 18. 0	8.18	0979														
12.18	7.0	8.32	0963														
12.49	20.45	9.4	0978														
13.0	2.30	9.23	0948														
13.11	21. 4. 10	9.52	0961														
13.30	20. 54. 0	10.30	0942														
14.17	21. 15. 45	10.36	0979														
14.39	10.20	10.42	0968														
14.57	19.30	10.46	0972														
15.9	18.20	***	0920														
15.15	21.50	11.37	0920														
15.22	21.0	***	0938														
15.29	17.0	11.54	0938														
15.34	18.50	12.10	0944														
15.42	13.40	12.36	0972														
15.45	18.50	12.50	0899														
15.55	11.25	13.9	0946														
16.30	2.20	13.40	0970														
	***	13.47	0948														
16.56	10.0	13.58	0955														
17.3	7.0	14.15	0902														
17.20	15.50	***	0928														
	***	14.46	0928														
17.43	19.50	14.53	0911														
17.48	19.0	15.17	0946														
18.15	31.20	15.26	0930														
18.25	29.0	15.32	0937														
18.30	29.50	15.37	0926														
18.43	25.30	15.51	0959														
19.9	16.0	***	0942														
19.27	18.20	16.18	0942														
19.36	17.10	***	0968														
19.44	18.30	17.4	0968														
20.12	12.30	17.8	0954														
20.27	12.0	17.13	0965														
20.43	14.0	18.7	0900														
20.54	5.30	18.26	0917														

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
July 1		July 1							July 2		July 2						
8. 21	20. 58. 5	6. 6	·0972	h	m	h	m	o	o	8. 30	21. 13. 45	20. 4	·0884	17. 26	·02111	h	m
8. 42	21. 13. 50	6. 22	·0939							10. 16	15. 5	20. 40	·0903	21. 7	·02330		
	***	6. 33	·0944								***	21. 45	·0906	23. 59	·02466		
9. 19	20. 58. 50	6. 40	·0936							10. 41	17. 55	22. 10	·0890				
9. 30	21. 4. 10	6. 52	·0946								***	23. 15	·0921				
	***	7. 15	·0998							11. 28	12. 45	23. 20	·0914				
9. 44	5. 30	(†)									***	23. 59	·0930				
9. 53	10. 30	8. 34	·1083*							12. 33	11. 0						
9. 59	10. 0	9. 38	·0946							12. 44	16. 0						
10. 21	18. 10	***								12. 57	9. 30						
10. 31	11. 30	9. 57	·0944							13. 14	8. 20						
10. 45	19. 0	10. 3	·0958							13. 24	4. 20						
11. 3	15. 30	10. 11	·0940							13. 37	9. 30						
	***	10. 36	·0969							13. 43	8. 20						
11. 45	12. 50	***								13. 49	23. 30						
12. 17	13. 0	10. 47	·0970							14. 14	16. 55						
12. 29	16. 0	10. 53	·0949							14. 22	21. 21. 0						
	***	***								14. 53	20. 51. 55						
13. 6	15. 0	11. 40	·0947							15. 14	21. 2. 40						
13. 20	12. 30	11. 51	·0931							15. 25	1. 10						
13. 41	14. 40	12. 4	·0935							15. 42	3. 30						
13. 57	24. 20	12. 17	·0928							15. 56	0. 30						
14. 44	14. 30	12. 42	·0941							16. 5	3. 15						
14. 56	13. 5	12. 50	·0941							16. 15	0. 25						
15. 2	13. 30	13. 4	·0935							16. 26	2. 0						
15. 16	11. 30	13. 15	·0941							17. 16	2. 30						
	***	13. 20	·0930							17. 30	4. 5						
17. 33	11. 30	13. 37	·0934							18. 12	2. 20						
17. 54	9. 30	13. 52	·0925							18. 30	4. 30						
	***	14. 13	·0940							18. 53	2. 55						
18. 36	8. 30	14. 45	·0929							19. 4	6. 30						
18. 48	15. 0	***								19. 29	6. 50						
19. 47	9. 0	16. 13	·0942							19. 55	13. 0						
	(†)	***								20. 21	10. 0						
21. 0	8. 38*	17. 17	·0937							20. 28	14. 10						
		18. 22	·0907							21. 28	13. 15						
		18. 45	·0922							22. 15	20. 45						
		(†)								22. 50	21. 45						
		21. 0	·0881*							23. 13	19. 50						
July 2		July 2		July 2		July 2			July 3		July 3		July 3		July 3		
0. 58	(†)	1. 0	·0997*	0. 0	·01366	1. 0	68. 2	68. 3	0. 0	21. 19. 45	0. 0	·0930	0. 0	·02466	1. 0	65. 0	66. 5
1. 7	21. 26. 0	3. 0	·0925*	0. 46	·01303	3. 0	69. 8	70. 0	0. 59	23. 0	0. 22	·0923	3. 15	·02290	3. 0	66. 5	68. 0
1. 24	27. 0	9. 0	·0938*	1. 0	(†)	9. 0	69. 5	70. 2	2. 7	18. 50	0. 50	·0948	7. 29	·01876	9. 0	69. 0	69. 6
2. 20	26. 40	15. 18	·0931	3. 0	·01252*	21. 0	63. 2	64. 3	2. 42	20. 0	1. 17	·0934	7. 43	·01990	21. 0	65. 0	64. 0
3. 22	27. 45	16. 4	·0915	3. 20	·01334*				3. 59	17. 0	1. 47	·0945	10. 11	·01875			
3. 41	22. 30	16. 17	·0926	4. 57	·01552				4. 35	13. 20	***	***	13. 43	·01957			
4. 45	18. 45	16. 22	·0921	5. 41	·01567				4. 55	15. 40	2. 22	·0949	19. 15	·02440			
5. 0	20. 0	16. 37	·0929	6. 14	·01668				5. 13	13. 50	2. 36	·0938	21. 51	·02565			
	***	16. 46	·0922	8. 39	·01744					***	***	***	23. 59	·02488			
6. 13	14. 20	17. 0	·0929	11. 28	·01730				6. 35	15. 0	2. 56	·0947					
	***	***	***	13. 10	·01796					***	3. 4	·0936	***				
6. 43	16. 45	18. 40	·0914	14. 15	·01877												
	***	18. 57	·0916	15. 7	·01640												
7. 53	13. 50	19. 35	·0896	15. 15	·01672												
8. 7	16. 0	16. 10	·01937	16. 10	·01937												

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
July 3		July 3							July 4		July 4						
8. 31	21. 14. 10	3. 40	*0935 ***						12. 51	21. 4. 50	10. 45	*0959 ***					
8. 54	11. 55								12. 54	20. 56. 10							
9. 21	19. 0	5. 6	*0957 ***						12. 59	21. 7. 30	11. 6	*0973 ***					
9. 51	14. 10								13. 6	4. 15							
9. 59	15. 10	5. 50	*0950						13. 17	12. 40	11. 44	*0943					
11. 6	15. 10	6. 40	*0955						13. 22	1. 10	11. 50	*0975					
11. 22	14. 30	7. 7	*0940						13. 26	5. 10	11. 56	*0949					
14. 43	14. 0	7. 26	*0951						13. 48	21. 2. 10	12. 17	*0967					
14. 50	13. 0	8. 0	*0931						14. 0	20. 54. 0	12. 34	*0934					
15. 24	14. 0	8. 20	*0939						14. 30	21. 12. 10	12. 36	*0941					
15. 38	12. 0	8. 34	*0933 ***						14. 57	20. 56. 30	12. 40	*0926					
15. 57	11. 30								15. 39	21. 21. 30	12. 46	*0951					
16. 13	8. 50	12. 42	*0940 ***						15. 59	12. 20	12. 50	*0922					
18. 15	6. 20	14. 34	*0956 ***						16. 8	13. 5	13. 10	*0983					
18. 51	6. 30								16. 17	0. 0	13. 20	*0923					
19. 14	9. 10	16. 10	*0951 ***						16. 27	21. 2. 20	13. 26	*0935 ***					
20. 13	8. 35								16. 41	20. 59. 0							
21. 37	18. 5	19. 30	*0899						16. 45	21. 5. 50	13. 40	*0926 ***					
22. 19	17. 30	22. 0	*0918						16. 56	20. 52. 10							
22. 44	18. 10	22. 48	*0932						17. 2	57. 5	13. 50	*0935 ***					
23. 59	24. 0	23. 15	*0935						17. 10	56. 0							
		23. 22	*0942						17. 14	57. 20	14. 13	*0922					
		23. 45	*0930 (†)						17. 18	56. 50	14. 27	*0926					
									17. 29	57. 40	14. 48	*0956					
July 4		July 4	(†)	July 4		July 4			17. 37	20. 56. 45	14. 55	*0950					
0. 0	21. 24. 0	0. 0		0. 0	*02488	0. 0	66. 067. 0		17. 51	21. 16. 40	15. 10	*0959					
0. 41	25. 55	1. 0	*0920*	5. 29	*02089	1. 0	67. 068. 0		18. 0	10. 20	15. 19	*0975					
0. 53	25. 10	1. 17	*0931 ***	6. 52	*02013	3. 0	68. 769. 0		18. 9	12. 45	15. 30	*0970					
1. 42	27. 45			10. 29	*01968	6. 0	69. 270. 0		18. 14	2. 5	15. 35	*0956					
2. 57	24. 30	2. 40	*0950	10. 52	*01920	9. 0	67. 869. 0		18. 22	7. 0	15. 42	*0963					
3. 12	27. 0	3. 32	*0988	11. 45	*01927	12. 0	66. 067. 7		18. 30	2. 10	15. 47	*0931					
3. 20	25. 0	3. 40	*0978	11. 52	*01875	18. 0	57. 561. 0		18. 40	6. 50	16. 0	*0913					
3. 30	25. 55	3. 47	*0981	12. 30	*01823	21. 0	60. 758. 8		18. 51	4. 30	16. 30	*0948					
3. 51	23. 25	3. 54	*0976	13. 11	*02043				19. 0	6. 30	16. 46	*0905					
4. 57	20. 30	4. 4	*0980	13. 15	*02010				19. 11	1. 5	16. 52	*0920					
5. 21	16. 5	4. 17	*0974	13. 43	*02108				19. 20	6. 55	16. 54	*0900					
5. 49	18. 35	4. 36	*0978	14. 28	*02228				19. 28	4. 20	17. 25	*0962					
5. 53	16. 0	5. 13	*0964	14. 57	*02156				19. 39	10. 0	17. 30	*0930 ***					
6. 15	16. 30	5. 54	*1005	15. 16	*02190				19. 52	4. 40							
6. 36	12. 40	6. 33	*0981	15. 50	*02137				19. 56	6. 30	17. 35	*0914 ***					
6. 45	16. 10	6. 37	*0991	16. 31	*02290				20. 0	3. 40							
6. 56	11. 30	6. 45	*0962	16. 45	*02269				20. 10	6. 45	18. 2	*0936					
7. 42	15. 10	6. 56	*0971	17. 14	*02492				20. 14	2. 40	18. 7	*0885					
7. 51	17. 15	7. 7	*0962 ***	19. 30	*02954				20. 17	9. 50	18. 23	*0922					
				22. 41	*02712				20. 26	5. 55	18. 36	*0931					
				23. 11	*02729				20. 51	16. 0	18. 39	*0920 ***					
				23. 59	*02662				21. 10	12. 0							
										***	19. 4	*0906					
9. 52	17. 30	7. 30	*0955						22. 14	14. 0	19. 13	*0920					
10. 1	15. 30	7. 43	*0965						22. 25	17. 20	19. 18	*0895					
10. 40	20. 40	7. 50	*0958 ***						22. 30	16. 30	19. 36	*0910 ***					
11. 0	12. 55								22. 49	20. 30							
11. 28	17. 25	8. 37	*0954						22. 57	19. 30	20. 7	*0873 ***					
11. 44	13. 30	9. 3	*0971 ***						23. 5	23. 35							
11. 50	16. 10								23. 27	22. 0	20. 38	*0904 ***					
12. 7	4. 0	9. 48	*0937						23. 42	18. 40							
12. 17	2. 40	10. 5	*0955						23. 49	21. 45	22. 12	*0890 ***					
12. 30	21. 7. 50	10. 17	*0962						23. 59	21. 0							
12. 42	20. 55. 0	10. 26	*0975														

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INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.	
July 7		July 7		July 7		July 7			July 9		July 9				July 10			
2. 12	21. 22. 30	2. 15	*0949 ***	19. 54	*02530	21. 25	58. 2	59. 3	6. 1	21. 13. 50	4. 56	*0959			0. 0	21. 21. 50	0. 0	*0936
3. 7	21. 45			21. 51	*02628				1. 39	22. 30	1. 47	*0950			1. 39	22. 30	1. 47	*0950
6. 52	13. 50	2. 50	*0947	23. 59	*02479				1. 49	22. 0	2. 9	*0961			2. 27	22. 0	2. 9	*0961
7. 25	14. 30	3. 47	*0955 ***						1. 58	23. 20	2. 9	***			2. 27	23. 20	2. 9	***
7. 51	12. 50								2. 12	22. 0	3. 12	*0952			2. 27	22. 0	3. 12	*0952
13. 15	15. 0	4. 40	*0954						4. 12	18. 25	3. 33	*0964			3. 33	18. 25	3. 33	*0964
13. 35	16. 0	5. 17	*0947						5. 37	18. 50	4. 15	***			4. 15	18. 50	4. 15	***
14. 12	14. 55	6. 4	*0956						6. 52	17. 20	4. 15	*0960			4. 15	17. 20	4. 15	*0960
14. 42	16. 0	6. 32	*0947						7. 12	18. 0	5. 0	*0970			5. 0	18. 0	5. 0	*0970
	***	6. 53	*0952 ***						8. 12	17. 20	5. 0	***			5. 0	17. 20	5. 0	***
16. 9	12. 0								8. 49	14. 40	5. 40	*0971			5. 40	14. 40	5. 40	*0971
16. 29	12. 30	7. 50	*0944 ***						10. 10	14. 20	6. 23	***			6. 23	14. 20	6. 23	***
16. 44	13. 45								10. 55	11. 0	6. 23	*0963			6. 23	11. 0	6. 23	*0963
17. 4	13. 10	11. 15	*0941 ***						11. 51	13. 10	6. 47	*0965			6. 47	13. 10	6. 47	*0965
17. 15	14. 10								12. 10	10. 50	7. 30	*0988			7. 30	10. 50	7. 30	*0988
17. 30	13. 0	15. 11	*0954 ***						12. 24	10. 0	7. 46	*0989			7. 46	10. 0	7. 46	*0989
17. 37	14. 0								13. 12	15. 20	8. 40	*0969			8. 40	15. 20	8. 40	*0969
17. 54	11. 30	16. 47	*0947						13. 55	8. 30	8. 30	***			8. 30	8. 30	8. 30	***
17. 58	12. 40	18. 36	*0952						14. 38	13. 0	11. 26	*0972			11. 26	13. 0	11. 26	*0972
18. 15	11. 0	22. 12	*0927						15. 14	13. 40	12. 42	***			12. 42	13. 40	12. 42	***
20. 40	8. 30	22. 55	*0929						15. 22	12. 50	12. 42	*0962			12. 42	12. 50	12. 42	*0962
21. 43	10. 30	23. 12	*0935						15. 40	13. 45	13. 18	*0989			13. 18	13. 45	13. 18	*0989
22. 10	14. 55	23. 35	*0931						17. 38	12. 30	14. 46	***			14. 46	12. 30	14. 46	***
22. 21	15. 10	23. 46	*0934						17. 54	13. 20	14. 46	*0967			14. 46	13. 20	14. 46	*0967
	(†)	23. 59	*0930						18. 10	12. 0	17. 47	***			17. 47	12. 0	17. 47	***
July 8		July 8		July 8		July 8			18. 14	13. 0	17. 47	*0972			17. 47	13. 0	17. 47	*0972
	(†)	0. 0	*0930	0. 0	*02479	9. 29	64. 2	65. 5	18. 54	13. 20	22. 12	*0943			22. 12	13. 20	22. 12	*0943
2. 27	21. 25. 30	0. 59	*0941	2. 17	*02444	21. 0	59. 8	60. 4	19. 12	12. 40	23. 59	*0945			23. 59	12. 40	23. 59	*0945
5. 14	16. 30	1. 40	*0930	8. 42	*01680				19. 40	12. 40						12. 40		
7. 10	15. 0	2. 21	*0950	15. 39	*01930				20. 30	11. 10						11. 10		
7. 47	13. 40	2. 46	*0954	23. 59	*02291				21. 52	13. 20						13. 20		
13. 39	13. 30	3. 12	*0946						23. 59	20. 0						20. 0		
14. 37	14. 10	4. 2	*0955															
14. 57	13. 30	4. 15	*0948															
15. 26	15. 0		***															
16. 17	12. 20	4. 53	*0956															
16. 38	12. 30	5. 8	*0951															
17. 52	7. 35	5. 47	*0950															
18. 30	7. 50	6. 21	*0957															
18. 52	6. 55	8. 25	*0945															
19. 14	7. 25	16. 56	*0949															
	(†)	21. 53	*0931															
21. 0	9. 7*	22. 11	*0934															
		22. 56	*0924															
		23. 35	*0930															
		23. 59	*0928															
July 9		July 9		July 9		July 9			July 9		July 9				July 9			
	(†)	0. 0	*0928	0. 0	*02291	1. 0	61. 7	62. 6	17. 54	13. 20	14. 46	*0967			14. 46	13. 20	14. 46	*0967
1. 2	21. 22. 20		***	2. 27	*02216	3. 0	64. 3	65. 0	18. 10	12. 0		***				12. 0		***
2. 40	20. 0	1. 45	*0945	7. 21	*01623	9. 0	67. 3	68. 0	18. 14	13. 0	17. 47	*0972			17. 47	13. 0	17. 47	*0972
3. 30	17. 45		***	9. 2	*01490	21. 0	59. 8	60. 7	18. 54	13. 20	22. 12	*0943			22. 12	13. 20	22. 12	*0943
3. 46	18. 0	2. 58	*0947	13. 46	*01600				19. 12	12. 40	23. 59	*0945			23. 59	12. 40	23. 59	*0945
4. 21	16. 10		***	19. 30	*02008				19. 40	12. 40						12. 40		
4. 29	17. 30	4. 17	*0956	22. 45	*02200				20. 30	11. 10						11. 10		
4. 43	14. 0	4. 25	*0964	23. 59	*02189				21. 52	13. 20						13. 20		
5. 40	12. 35		***						23. 59	20. 0						20. 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.	
July 11		July 11		July 11		July 11					July 11							
0. 0	21. 20. 0	0. 0	·0945	0. 0	·02410	0. 0	62. 2	63. 7			20. 22	·0966						
1. 56	23. 30	2. 8	·0949	2. 27	·02248	1. 0	63. 0	64. 0			20. 45	·0952						
2. 12	22. 30	***	***	5. 40	·01820	3. 0	65. 3	67. 0				***						
2. 40	24. 10	3. 30	·0965	9. 10	·01507	6. 0	68. 0	69. 0			23. 7	·0934						
5. 12	17. 0	***	***	10. 0	·01565	9. 0	68. 5	69. 5			23. 21	·0941						
6. 5.	13. 45	3. 47	·0952	11. 31	·01571	12. 0	67. 4	68. 2			23. 43	·0921						
6. 55	15. 40	4. 8	·0970	14. 28	·01677	18. 0	62. 0	63. 8			23. 59	·0926						
9. 7	15. 0	4. 17	·0962	15. 24	·01723	21. 0	61. 6	62. 7										
9. 40	12. 20	4. 19	·0969	19. 25	·02024													
10. 21	16. 20	5. 10	·0964	19. 42	·02095				July 12	21. 26. 45	0. 0	·0926	0. 0	·02341	0. 0	63. 0	63. 8	
11. 0	11. 40	5. 29	·0942	19. 53	·02077				0. 25	23. 10	0. 12	·0901	1. 41	·02386	1. 0	64. 0	65. 0	
11. 30	4. 30	5. 46	·0954	20. 50	·02118				0. 52	26. 0	2. 7	·0954	2. 27	·02369	3. 0	66. 5	67. 7	
12. 10	10. 0	5. 53	·0946	22. 15	·02282				1. 5	25. 0	2. 30	·0942	3. 41	·02280	9. 0	69. 5	70. 5	
12. 47	9. 0	6. 10	·0965	23. 59	·02341				1. 40	27. 0	2. 51	·0964	7. 11	·01751	21. 0	61. 4	62. 2	
14. 13	10. 20	6. 18	·0951						1. 51	25. 10	3. 33	·0935	9. 30	·01577				
14. 25	9. 40	6. 39	·0960						2. 51	23. 50	3. 48	·0952	12. 12	·01672				
14. 30	10. 30	***	***						3. 33	16. 30	3. 51	·0945	17. 17	·01980				
14. 48	8. 0	7. 17	·0951						3. 50	17. 5	4. 0	·0958	22. 16	·02405				
14. 58	10. 50	7. 50	·0951						4. 12	16. 15	4. 12	·0974	23. 59	·02494				
15. 27	10. 30	8. 7	·0957						4. 50	17. 50	4. 30	·0961						
15. 43	7. 0	***	***						6. 22	15. 45	5. 2	·0948						
15. 54	9. 45	8. 30	·0953						8. 7	15. 50	***	***						
16. 0	9. 10	***	***						8. 13	14. 45	6. 0	·0949						
16. 14	18. 10	10. 24	·0952						9. 40	15. 20	6. 22	·0958						
16. 40	11. 0	10. 46	·0962						10. 51	14. 20	***	***						
16. 43	12. 0	11. 6	·0959						11. 7	13. 20	7. 4	·0957						
16. 53	9. 30	11. 7	·1003						11. 17	13. 30	7. 53	·0944						
17. 0	11. 40	11. 18	·0973						11. 28	12. 30	***	***						
17. 13	9. 50	11. 23	·0979						11. 53	13. 5	9. 20	·0939						
17. 21	11. 30	11. 30	·0954						12. 6	10. 50	***	***						
17. 37	9. 0	11. 37	·0969						12. 29	10. 20	11. 15	·0940						
17. 43	12. 0	***	***						13. 24	16. 30	11. 40	·0948						
17. 48	7. 20	13. 35	·0978						14. 0	13. 30	11. 51	·0942						
17. 54	11. 30	13. 45	·0986						14. 11	14. 20	12. 12	·0939						
18. 14	4. 10	13. 48	·0975						14. 14	13. 55	12. 20	·0946						
18. 30	12. 30	13. 53	·0989						15. 17	15. 40	12. 27	·0938						
18. 40	7. 20	***	***						16. 15	15. 30	12. 35	·0942						
18. 45	12. 45	14. 13	·0976						16. 45	18. 40	12. 46	·0934						
19. 7	3. 10	14. 17	·0988						17. 43	14. 30	13. 3	·0942						
19. 45	42. 15	14. 21	·0976						18. 6	15. 0	13. 12	·0934						
20. 7	24. 40	***	***						18. 43	13. 15	13. 42	·0950						
20. 12	27. 15	14. 45	·0988							***	14. 12	·0950						
20. 15	25. 30	***	***						20. 43	12. 30	14. 22	·0944						
20. 19	26. 30	15. 12	·0980						21. 1	14. 0	14. 30	·0948						
20. 25	24. 40	***	***						21. 27	13. 20	***	***						
20. 40	23. 40	16. 8	·0952						23. 59	21. 0	15. 40	·0955						
20. 58	16. 30	***	***									***						
21. 3	17. 35	17. 20	·0968									16. 45	·0946					
21. 30	13. 30	***	***									17. 22	·0953					
21. 47	14. 30	17. 57	·0954									19. 35	·0950					
21. 55	13. 50	18. 12	·0935									22. 46	·0923					
23. 25	25. 30	18. 26	·0972									***	***					
23. 40	25. 15	18. 37	·0952									23. 59	·0933					
23. 55	27. 10	18. 42	·0966															
23. 59	26. 45	18. 53	·0910															
		19. 12	·0892						July 13	0. 0	21. 21. 0	0. 0	·0933	0. 0	·02494	1. 0	63. 0	64. 0
		19. 33	·0826						0. 54	22. 45	***	***	2. 12	·02492	3. 0	65. 8	67. 0	
		19. 47	·0940						3. 13	19. 50	1. 46	·0944	4. 42	·02180	9. 0	69. 7	70. 5	

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.																																		
July 13 3. 26 4. 10 4. 24 4. 55 5. 51 7. 13 10. 4 12. 25 12. 46 13. 25 13. 51 15. 10 15. 16 17. 30 17. 51 18. 7 18. 40 18. 46 19. 21 19. 47 20. 14 23. 29 23. 59	21. 20. 10 16. 10 15. 30 15. 45 12. 25 13. 45 13. 30 15. 50 14. 5 14. 30 15. 30 14. 30 13. 30 12. 20 13. 20 12. 20 12. 50 11. 30 14. 0 12. 45 13. 20 25. 20 25. 35	July 13 3. 2 3. 20 4. 5 4. 30 4. 42 5. 6 5. 43 6. 10 6. 29 8. 15 9. 13 12. 22 15. 30 17. 6 18. 25 22. 33 23. 59	.0958 .0980 .0954 *** .0950 .0961 *** .0964 .0945 *** .0949 .0939 *** .0944 .0938 *** .0948 *** .0950 .0957 .0957 .0938 *** .0945	July 13 6. 46 8. 44 12. 26 19. 0 22. 38 23. 59	.01807 .01610 .01757 .02300 .02512 .02551	July 13 21. 0	62.7 63.8	July 16 3. 46 5. 30 6. 6 6. 14 6. 36 7. 0 7. 12 9. 17 9. 35 14. 56 15. 50 16. 17 16. 40 17. 11 17. 43 18. 40 19. 43 19. 59 20. 17 20. 39 20. 54 21. 26 23. 40 23. 59	21. 20. 10 18. 0 16. 40 17. 0 15. 0 17. 5 16. 30 17. 40 16. 45 16. 45 13. 40 14. 10 13. 25 14. 50 13. 20 13. 20 14. 5 13. 20 15. 40 14. 15 16. 20 20. 30 20. 25	July 16 14. 53 20. 45 22. 21 23. 59	.02297 .02219 .02145 .02184 .02149	July 16 14. 53 20. 45 22. 21 23. 59	.02297 .02219 .02145 .02184 .02149	July 16 14. 53 20. 45 22. 21 23. 59	.02297 .02219 .02145 .02184 .02149	July 14 0. 0 0. 52 3. 55 5. 25 16. 10 19. 15 21. 43 21. 51 23. 14 23. 59	21. 25. 35 27. 0 17. 45 16. 0 14. 0 9. 55 15. 0 14. 20 20. 0 20. 10	July 14 0. 0 0. 37 1. 16 1. 40 9. 36 17. 43 20. 27 21. 33 23. 59	.0945 .0954 *** .0953 .0959 *** .0952 .0958 .0952 .0943 .0936	July 14 0. 0 1. 54 10. 40 19. 31 23. 59	.02551 .02566 .01950 .02432 .02480	July 14 1. 0 3. 0 9. 0 22. 40	64.0 66.5 69.3 67.4	65.0 67.2 67.5	July 17 0. 0 0. 30 0. 51 1. 12 1. 56 3. 59 6. 26 8. 7 8. 28 8. 53 10. 45 11. 15 11. 37 11. 55 12. 12 12. 25 12. 52 13. 40 14. 4 14. 14 14. 28 15. 10 16. 13 16. 55 17. 43 18. 25 18. 44 20. 42 23. 59	21. 20. 25 19. 50 19. 0 20. 0 17. 30 16. 50 13. 0 15. 0 14. 20 15. 0 13. 50 10. 20 11. 30 10. 5 10. 40 9. 35 12. 20 8. 20 9. 20 8. 40 9. 0 8. 45 13. 30 9. 45 6. 50 8. 0 7. 40 11. 20 21. 30	July 17 0. 0 2. 40 4. 45 6. 29 7. 41 14. 34 16. 45 19. 2 21. 27 22. 57 23. 59	.0939* .0952* .0953* .0930* .01556 .01744 .01790 .01948 .02209 .02360 .02362 .02312	July 17 0. 0 2. 40 4. 45 6. 29 7. 41 14. 34 16. 45 19. 2 21. 27 22. 57 23. 59	.02149 .01930 .01660 .01548 .01556 .01744 .01790 .01948 .02209 .02360 .02362 .02312	July 17 1. 0 3. 0 9. 0 21. 0	67.0 68.7 69.8 63.3	68.0 69.3 70.0 63.7	July 15 0. 0 1. 29 4. 55 11. 22 12. 35 13. 44 14. 45 15. 14 15. 55 19. 55 20. 28 21. 11	21. 20. 10 20. 50 17. 0 15. 55 14. 20 15. 50 14. 55 15. 10 14. 0 13. 30 14. 20 14. 10 (†)	July 15 0. 0 3. 36 3. 48 5. 27 6. 24 10. 33 11. 0 13. 30 15. 7 18. 18 20. 47 21. 0	.0936 .0946 .0951 .0946 .0952 .0951 .0955 .0952 .0954 .0953 .0941 (†) .0941*	July 15 0. 0 2. 48 5. 40 10. 12 13. 47 21. 12	.02480 .02424 .02233 .02040 .02090 .02470 (†)	July 15 9. 5 21. 0	70.0 64.6	70.5 65.7	July 16 0. 40 1. 54 2. 28	(†) 21. 20. 40 20. 50 19. 40	July 16 1. 0 3. 0 9. 0 21. 0	.0952* .0967* .0975* .0947*	July 16 1. 0 3. 0 5. 54	(†) .02493* .02515* .02220	July 16 1. 0 3. 0 21. 0	66.0 65.8 63.3	67.0 67.2 66.7 64.0
July 15 0. 0 1. 29 4. 55 11. 22 12. 35 13. 44 14. 45 15. 14 15. 55 19. 55 20. 28 21. 11	21. 20. 10 20. 50 17. 0 15. 55 14. 20 15. 50 14. 55 15. 10 14. 0 13. 30 14. 20 14. 10 (†)	July 15 0. 0 3. 36 3. 48 5. 27 6. 24 10. 33 11. 0 13. 30 15. 7 18. 18 20. 47 21. 0	.0936 .0946 .0951 .0946 .0952 .0951 .0955 .0952 .0954 .0953 .0941 (†) .0941*	July 15 0. 0 2. 48 5. 40 10. 12 13. 47 21. 12	.02480 .02424 .02233 .02040 .02090 .02470 (†)	July 15 9. 5 21. 0	70.0 64.6	70.5 65.7	July 16 0. 40 1. 54 2. 28	(†) 21. 20. 40 20. 50 19. 40	July 16 1. 0 3. 0 9. 0 21. 0	.0952* .0967* .0975* .0947*	July 16 1. 0 3. 0 5. 54	(†) .02493* .02515* .02220	July 16 1. 0 3. 0 21. 0	66.0 65.8 63.3	67.0 67.2 66.7 64.0																																		
July 16 0. 40 1. 54 2. 28	(†) 21. 20. 40 20. 50 19. 40	July 16 1. 0 3. 0 9. 0 21. 0	.0952* .0967* .0975* .0947*	July 16 1. 0 3. 0 5. 54	(†) .02493* .02515* .02220	July 16 1. 0 3. 0 21. 0	66.0 65.8 63.3	67.0 67.2 66.7 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.

July 16 and 17. The Photographic Traces for the Horizontal Force Magnet 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
July 18		July 18		July 18		July 18			July 19		July 19		July 19		July 19		
0. 0	21. 21. 30		(†)	0. 0	.02312	0. 0	64.5	65.0	1. 45	21. 26. 30	1. 45	.0962	7. 42	.01863	3. 0	64.3	64.8
1. 17	22. 20	0. 55	.0940	1. 57	.02294	1. 0	66.0	66.3	4. 13	20. 0	1. 52	.0956	9. 16	.01830	9. 10	65.0	66.0
3. 5	18. 20	1. 32	.0939	8. 12	.01590	3. 0	68.0	68.0	4. 21	22. 30	2. 3	.0960	11. 30	.01888	21. 10	61.4	61.3
3. 39	18. 30		***	12. 40	.01710	6. 0	68.5	68.3	4. 30	20. 5	2. 7	.0944	11. 57	.01932			
4. 48	16. 40	2. 34	.0952	15. 41	.01852	9. 0	67.1	67.2	6. 15	15. 50	2. 17	.0952	13. 15	.01917			
4. 56	18. 5	2. 53	.0945	16. 11	.01837	12. 0	65.8	66.7	6. 51	15. 20	2. 40	.0946	14. 14	.01960			
5. 18	16. 15	3. 17	.0947	19. 34	.02070	18. 0	63.0	63.2	6. 56	16. 55	3. 16	.0958	14. 34	.01908			
6. 24	14. 40	3. 45	.0943	23. 59	.02218	21. 0	63.0	63.7	7. 7	14. 10	3. 30	.0952	15. 42	.02047			
7. 26	16. 10		***						7. 15	15. 50		***	17. 43	.02140			
8. 43	14. 45	4. 42	.0950						7. 23	14. 20	4. 6	.0950	20. 9	.02383			
9. 42	12. 20	4. 51	.0972						7. 34	15. 55	4. 17	.0942		.02335			
9. 54	13. 35	5. 8	.0959						8. 39	15. 0	4. 21	.0902	21. 45	.02190			
10. 12	11. 40		***						8. 53	16. 10	4. 32	.0976	23. 59	.02169			
10. 58	16. 15	5. 27	.0953						9. 13	14. 30	4. 37	.0984					
11. 37	16. 0	5. 36	.0959						9. 45	16. 15	4. 46	.0972					
11. 59	13. 20	5. 46	.0959						10. 24	14. 20		***					
12. 21	16. 30	6. 0	.0965						10. 59	17. 30	5. 10	.0962					
12. 45	15. 50	6. 13	.0958						11. 14	14. 0	5. 33	.0966					
12. 57	14. 10	6. 40	.0961						11. 22	15. 0	5. 47	.0963					
13. 11	15. 10	6. 48	.0957						11. 47	2. 0	6. 7	.0971					
13. 22	12. 50	7. 0	.0960							(†)	6. 20	.0969					
13. 32	13. 30	7. 26	.0949						12. 54	6. 30	6. 32	.0974					
14. 8	6. 20	8. 20	.0971						13. 14	3. 40		***					
14. 27	11. 0	8. 52	.0957						13. 39	10. 45	6. 53	.0970					
14. 51	9. 50	9. 17	.0965						14. 0	7. 30	6. 58	.0976					
15. 11	11. 20		***						14. 24	24. 30	7. 6	.0959					
15. 26	21. 20	9. 54	.0956						14. 54	13. 20	7. 17	.0972					
15. 50	13. 0	10. 20	.0966						14. 58	16. 50		***					
16. 27	8. 55		***						15. 10	16. 15	7. 46	.0965					
17. 5	10. 0	12. 0	.0968						15. 13	19. 0	8. 21	.0965					
17. 31	7. 0	12. 20	.0977						15. 22	16. 55	8. 40	.0977					
18. 27	12. 5	12. 51	.0966						15. 35	18. 40	9. 0	.0962					
18. 30	11. 45	13. 13	.0973						16. 5	14. 20	9. 16	.0971					
18. 42	12. 50		***						16. 11	15. 50	9. 30	.0966					
19. 0	11. 10	14. 3	.0967						16. 17	14. 20	9. 40	.0971					
19. 13	12. 20	14. 40	.0993						16. 42	16. 20	10. 3	.0962					
19. 43	11. 0	15. 17	.0960						17. 21	11. 20	10. 10	.0967					
19. 49	12. 15	15. 46	.0974							***	10. 20	.0994					
19. 55	10. 20		***						18. 14	9. 50	10. 40	.0972					
19. 58	12. 10	17. 7	.0976							***	10. 56	.0972					
20. 17	7. 50	18. 24	.0957						18. 38	13. 0	11. 7	.0967					
20. 26	9. 40		***						18. 49	11. 30	11. 17	.0977					
20. 29	9. 0	19. 43	.0958						19. 7	13. 25	11. 33	.0958					
20. 40	11. 20		***						19. 20	11. 50	11. 56	.0988					
20. 49	8. 20	21. 30	.0935						20. 27	10. 30	12. 6	.0980					
20. 58	12. 30	21. 40	.0939							***	12. 10	.1009					
21. 10	12. 0	21. 53	.0927						20. 57	14. 30	12. 17	.0999					
21. 19	13. 40	22. 4	.0934							***	12. 30	.1015					
21. 30	13. 30	22. 17	.0909						21. 44	17. 15	12. 40	.1027					
21. 43	15. 0	22. 56	.0939							***	12. 45	.1013					
22. 17	14. 55	23. 5	.0933						22. 12	16. 10	12. 47	.1018					
22. 30	20. 35		***							***	12. 52	.1013					
22. 49	17. 50	23. 59	.0943						22. 50	17. 50	13. 3	.1019					
23. 5	21. 50								23. 10	19. 30	13. 17	.0990					
23. 59	22. 50								23. 21	18. 50	14. 3	.0959					
July 19		July 19		July 19		July 19			23. 57	22. 0	14. 21	.0976					
0. 0	21. 22. 50	0. 0	.0943	0. 0	.02218	0. 0	63.0	63.6	23. 59	21. 45	14. 33	.0968					
	***		***	1. 55	.02250	1. 0	63.2	63.7				***					
											15. 10	.0958					

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
July 19 h m 15. 23 15. 37 16. 8 17. 15 18. 4 19. 3 20. 7 20. 36 21. 45 22. 40 23. 59	o ' " 21. 21. 45 21. 20 23. 55 24. 0 22. 0 23. 0 20. 20 20. 10 17. 50 13. 10 15. 50 15. 0 16. 30 13. 30 17. 50 14. 0 16. 10 15. 0 17. 0 14. 15 14. 30 11. 10 14. 20 12. 0 13. 20 16. 40 14. 20 18. 0 11. 0 15. 5 14. 0 15. 50 14. 17 18. 15 14. 10 14. 30 10. 20	July 19 h m 15. 23 15. 37 16. 8 17. 15 18. 4 19. 3 20. 7 20. 36 21. 45 22. 40 23. 59	' . 0969 0956 0978 *** 0966 *** 0970 *** 0948 *** 0941 *** 0946 *** 0932 *** 0930 *** 0945	h m o. 0 2. 43 3. 16 7. 32 9. 43 11. 20 15. 25 18. 40 20. 20 23. 59	' . 02169 02090 02004 01950 01720 01697 01740 02011 02320 02308 02100 02007	h m 1. 0 3. 0 9. 0 21. 0	o 63.7 65.7 65.4 60.0 60.6	o 64.0 65.8 66.0 60.6	July 20 h m 19. 58 20. 40 20. 54 21. 14 21. 22 21. 40 21. 58 22. 27 22. 36 22. 58 23. 59	o ' " 21. 10. 30 15. 0 13. 50 13. 50 14. 45 13. 45 15. 55 15. 55 17. 0 16. 15 20. 30	July 20 h m 16. 45 17. 17 19. 40 20. 22 23. 0 23. 30 23. 46 23. 59	' . 0986 *** 0968 *** 0953 0936 *** 0934 0946 0940 0940	h m o. 0 3. 43 6. 27 10. 30 14. 45 20. 59 23. 59	' . 02007 02070 01928 01720 01807 02049 02017	July 21 h m 1. 0 3. 0 9. 0 22. 42	o 60.8 62.0 64.0 59.5 60.9 63.6 60.6	
July 20 h m 0. 0 0. 10 0. 40 1. 43 2. 17 2. 38 3. 21 3. 55 4. 30 5. 10 6. 16 6. 49 7. 58 8. 19 9. 14 9. 45 10. 8 10. 44 11. 13 11. 28 11. 40 12. 6 12. 51 13. 7 13. 40 13. 56 14. 13 14. 55 15. 42 16. 37 17. 9 17. 15 18. 3 18. 29 18. 36 19. 10	21. 21. 45 21. 20 23. 55 24. 0 22. 0 23. 0 20. 20 20. 10 17. 50 13. 10 15. 50 15. 0 16. 30 13. 30 17. 50 14. 0 16. 10 15. 0 17. 0 14. 15 14. 30 11. 10 14. 20 12. 0 13. 20 16. 40 14. 20 18. 0 11. 0 15. 5 14. 0 15. 50 14. 17 18. 15 14. 10 14. 30 10. 20	July 20 h m 0. 0 2. 10 2. 40 2. 52 3. 46 4. 47 5. 40 5. 47 6. 18 7. 36 7. 47 8. 3 8. 38 8. 50 9. 8 9. 33 9. 47 10. 30 11. 0 11. 15 11. 34 12. 30 12. 53 13. 37 13. 37 14. 17 14. 58 15. 6 15. 22	' . 0945 *** 0948 *** 0961 0956 0975 *** 0955 0978 0969 0982 *** 0973 0978 0971 *** 0976 0967 0975 0961 0969 0955 0968 0961 0970 *** 0961 0967 *** 0960 *** 0963 *** 0983 0977 0987 ***	h m o. 0 2. 43 3. 16 7. 32 9. 43 11. 20 15. 25 18. 40 20. 20 23. 59	' . 02169 02090 02004 01950 01720 01697 01740 02011 02320 02308 02100 02007	h m 1. 0 3. 0 9. 0 21. 0	o 63.7 65.7 65.4 60.0 60.6	o 64.0 65.8 66.0 60.6	July 20 h m 19. 58 20. 40 20. 54 21. 14 21. 22 21. 40 21. 58 22. 27 22. 36 22. 58 23. 59	o ' " 21. 10. 30 15. 0 13. 50 13. 50 14. 45 13. 45 15. 55 15. 55 17. 0 16. 15 20. 30	July 20 h m 16. 45 17. 17 19. 40 20. 22 23. 0 23. 30 23. 46 23. 59	' . 0986 *** 0968 *** 0953 0936 *** 0934 0946 0940 0940	h m o. 0 3. 43 6. 27 10. 30 14. 45 20. 59 23. 59	' . 02007 02070 01928 01720 01807 02049 02017	July 21 h m 1. 0 3. 0 9. 0 22. 42	o 60.8 62.0 64.0 59.5 60.9 63.6 60.6	

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol † attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
July 21																	
20. 15	21. 10. 10								July 23								
20. 26	10. 25								0. 0	21. 21. 0	0. 0	0946	0. 0	01865	1. 0	60. 8	61. 0
20. 33	9. 30								0. 15	22. 0	***	6. 40	01949	3. 0	61. 7	61. 9	
20. 58	13. 30								0. 24	21. 20	0. 46	0955	14. 39	01867	9. 0	62. 0	62. 5
21. 30	13. 50								0. 39	22. 5	1. 40	0955	20. 27	02152	21. 0	59. 0	58. 8
21. 51	15. 45								1. 21	22. 30	2. 4	0961	23. 23	02094			
22. 8	15. 20								2. 10	24. 50	2. 52	0958		(†)			
22. 36	18. 25								5. 24	16. 30	***	0985					
23. 25	21. 0								6. 29	14. 0	5. 22	0982					
23. 59	23. 30								6. 54	15. 5	5. 43	0982					
									9. 22	15. 40	6. 6	0994					
									9. 57	14. 0	6. 30	0981					
									10. 31	9. 0	***	0985					
July 22		July 22		July 22		July 22			11. 29	14. 20	9. 20	0985					
0. 0	21. 23. 30	0. 0	0938	0. 0	02017	8. 33	64. 0	64. 4	11. 41	13. 40	9. 46	0983					
0. 30	25. 15	0. 30	0948	2. 55	01870	21. 0	59. 0	60. 0	11. 51	15. 30	10. 30	0993					
	***	0. 45	0940	6. 43	01504				12. 18	13. 45	***	0975					
2. 10	23. 50	1. 7	0950	11. 17	01372				12. 43	16. 10	11. 38	0975					
2. 39	21. 45	1. 52	0955	15. 46	01500				12. 51	14. 20	11. 49	0978					
2. 50	22. 30	2. 6	0964	20. 29	01850				13. 9	15. 0	12. 20	0975					
3. 11	21. 0	***	0964	22. 3	01906				13. 36	14. 10	12. 40	0980					
3. 52	20. 30	2. 33	0964	23. 59	01865				13. 47	17. 20	***	0973					
4. 39	17. 15	2. 45	0972						14. 44	12. 5	13. 36	0973					
5. 54	15. 0	3. 20	0958						16. 3	12. 30	***	0989					
8. 40	14. 55	***	0975						17. 30	8. 40	14. 17	0969					
9. 45	13. 0	4. 10	0966						18. 58	8. 0	15. 4	0977					
10. 10	11. 30	4. 37	0970						19. 13	6. 30	16. 52	0972					
11. 15	15. 50	5. 5	0976						19. 28	8. 40	18. 15	0962					
12. 2	14. 0	5. 15	0962						20. 10	10. 25	19. 0	0963					
12. 41	13. 20	5. 33	0966						20. 21	8. 25	19. 45	0932					
13. 14	15. 55	***	0977						20. 33	12. 0	22. 15	0940					
13. 50	15. 20	6. 57	0971						20. 51	11. 15	***	0940					
14. 11	17. 40	7. 38	0965						21. 4	13. 30	23. 59	0940					
14. 52	14. 20	7. 47	0967						22. 22	14. 10	***	0940					
15. 19	19. 20	***	0973						22. 45	17. 30		0940					
15. 46	16. 0	9. 46	0971						23. 45	20. 40		0940					
16. 5	16. 20	10. 6	0977						23. 54	20. 15		0940					
16. 21	13. 50	***	0965						23. 59	21. 10		0940					
17. 7	9. 40	12. 10	0967						July 24		July 24		July 24		July 24		July 24
17. 36	8. 30	***	0974						0. 0	21. 21. 10	0. 0	0940	1. 0	01238*	1. 0	60. 4	60. 3
17. 43	9. 10	15. 25	0974						0. 10	21. 50	0. 22	0930	3. 0	01400	3. 0	61. 0	61. 0
18. 4	7. 50	15. 46	0973						0. 27	20. 55	***	0965	7. 20	01326	9. 0	62. 0	63. 0
18. 13	8. 10	***	0960						1. 45	24. 40	2. 10	0962	13. 15	01390	21. 0	58. 2	58. 3
18. 24	6. 15	17. 50	0960						2. 55	25. 0	2. 30	0968	20. 0	01728			
18. 57	8. 10	***	0937						3. 30	21. 30	2. 47	0960	22. 0	01780			
19. 7	7. 5	19. 47	0938						3. 55	22. 10	3. 15	0977	23. 59	01730			
19. 55	8. 50	***	0946						4. 28	19. 0	3. 46	0972					
20. 15	8. 0	22. 6	0946						4. 36	19. 10	***	0972					
20. 38	11. 10	***	0946						5. 14	16. 15	4. 22	0964					
20. 54	10. 15	23. 32	0946						6. 37	13. 40	***	0972					
21. 15	11. 50	***	0946						7. 14	14. 30	5. 47	0972					
22. 6	17. 20	23. 59	0946						7. 44	14. 0	***	0972					
22. 15	17. 10	***	0946						10. 10	16. 5	7. 8	0969					
22. 35	19. 15	***	0946						12. 3	14. 0	8. 34	0973					
22. 58	18. 55	***	0946						12. 30	16. 0	9. 30	0969					
23. 26	21. 0	***	0946						13. 7	14. 40	12. 7	0970					
23. 40	20. 40	***	0946									0970					
23. 59	21. 0	***	0946									0970					

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.								
July 24 13. 45 14. 0 15. 12 16. 23 18. 28 19. 48 20. 57 22. 21 23. 33	21. 14. 45 13. 20 12. 5 12. 20 8. 10 7. 40 9. 20 14. 40 18. 40 (†)	July 24 12. 48 13. 48 17. 33 21. 20 22. 13 23. 36 23. 59	.0976 .0969 *** .0975 *** .0940 *** .0937 *** .0948 .0940						July 26 10. 21 10. 52 11. 30 12. 29 12. 45 12. 55 14. 42 15. 12 17. 42 17. 59 18. 28 18. 49 19. 45 20. 7 21. 2 22. 13 23. 0 23. 50 23. 59	21. 9. 50 9. 50 11. 40 12. 20 13. 40 12. 30 13. 0 14. 55 7. 50 9. 20 8. 40 10. 50 10. 20 12. 20 11. 50 17. 30 19. 40 24. 0 23. 55	July 26 10. 29 12. 40 16. 40 17. 50 19. 16 20. 47 21. 20 22. 40 23. 59	.0973 *** .0967 *** .0978 *** .0973 *** .0956 *** .0951 .0956 .0943 .0950						July 27 0. 0 3. 53 4. 57 9. 30 9. 51 10. 40 11. 0 13. 30 13. 45 14. 7 14. 20 15. 19 15. 56 18. 9 19. 21 19. 43 21. 6 23. 4 23. 59	21. 23. 55 *** 18. 0 15. 5 13. 30 11. 40 13. 35 12. 40 14. 10 16. 30 13. 30 16. 30 9. 30 10. 30 *** 8. 0 *** 11. 10 10. 20 12. 40 19. 30 22. 5	July 27 0. 0 1. 54 2. 7 2. 36 6. 0 8. 13 10. 42 14. 39 16. 30 21. 51 23. 59	.0950 *** .0977 .0966 *** .0970 *** .0970 *** .0956 *** .0970 .0965 *** .0974 *** .0973 *** .0972 .0979 .0974 .0977 *** .0965 .0972 .0979 .0971 .0980 .0973 .0974 .0968 .0971 *** .0954 .0960 .0960	.02328 .02280 .01908 {.02280 .02527 .02640 .02677 .02780 .02922 .03193 .03234	July 27 1. 0 3. 0 9. 0 21. 0	61. 7 63. 8 65. 0 60. 0	61. 6 64. 0 65. 9 60. 7
July 25 0. 13 1. 53 3. 58 5. 26 6. 33 7. 10 7. 28 7. 51 8. 13 10. 24 11. 0 12. 28 13. 0 13. 17 13. 39 14. 9 15. 12 15. 40 15. 55 17. 45 18. 17 18. 43 18. 51 18. 56 19. 14 19. 55 21. 58 22. 22 23. 26 23. 59	(†) 21. 19. 10 21. 30 18. 50 14. 30 12. 55 11. 0 12. 10 11. 40 12. 50 14. 50 14. 10 15. 15 16. 55 16. 10 18. 30 15. 0 14. 0 14. 50 13. 20 *** 10. 0 *** 11. 30 11. 15 9. 0 10. 0 10. 30 9. 45 15. 10 17. 15 19. 45 22. 45	July 25 0. 0 0. 47 1. 35 5. 4 5. 47 6. 50 12. 46 13. 17 14. 16 16. 4 17. 4 17. 50 20. 6 22. 5 23. 3 23. 59	.0940 .0941 *** .0940 *** .0956 .0968 .0971 *** .0972 .0982 .0973 *** .0971 *** .0976 .0972 .0941 *** .0938 *** .0945 *** .0940	July 25 0. 0 0. 14 5. 30 6. 45 13. 27 21. 5 23. 59	.01730 {.01732 .01760 .01366 .01420 .01532 .01944 .01850	July 25 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 18. 0 21. 0	59. 0 59. 8 60. 0 61. 7 61. 9 60. 8 55. 8 57. 0 57. 3 56. 8	58. 5 59. 2 60. 0 61. 9 61. 9 61. 5 57. 0 56. 8	July 26 0. 0 0. 29 1. 28 2. 30 3. 51 5. 40 8. 12 9. 0 9. 37 10. 0	21. 22. 45 24. 50 24. 0 21. 50 16. 20 11. 45 11. 10 11. 50 10. 15 11. 40	July 26 0. 0 0. 50 1. 17 2. 30 2. 53 4. 24 5. 9	.0940 *** .0946 .0940 .0954 .0951 *** .0956 *** .0966 ***	July 26 0. 0 3. 43 8. 50 13. 27 20. 11 23. 0 23. 59	.01850 .01496 .01850 .01948 .02291 .02367 .02328	July 26 0. 0 1. 0 3. 0 9. 7 21. 0	59. 3 60. 0 61. 7 63. 0 59. 0 58. 7	58. 7 60. 0 61. 8 63. 0 58. 7	July 26 22. 40 23. 32 23. 59	.0954 .0960 .0960						

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Greenwich Mean Solar Time.	Western Declina- tion.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermo- meters.		Greenwich Mean Solar Time.	Western Declina- tion.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermo- meters.									
							Of H. F. Magnet.	Of V. F. Magnet.								Of H. F. Magnet.	Of V. F. Magnet.								
July 28 h m 0. 0 1. 52 2. 51 5. 20 7. 15 8. 13 9. 52 10. 0 10. 45 11. 13 11. 39 12. 10 12. 10 13. 57 14. 42 15. 32 17. 45 18. 58 19. 17 19. 45 19. 54 20. 0 20. 11 20. 21 20. 55 21. 9 21. 20 22. 0 22. 17 23. 18 23. 27 23. 46 23. 59	21. 22. 5 26. 15 20. 40 15. 5 16. 5 14. 10 16. 40 16. 0 15. 30 10. 0 12. 40 10. 30 14. 40 13. 30 14. 50 10. 20 9. 40 12. 15 11. 0 9. 0 9. 30 11. 40 10. 30 14. 30 13. 15 13. 30 19. 10 18. 30 26. 10 25. 50 28. 20 27. 50	July 28 h m 0. 0 1. 30 1. 48 2. 22 2. 57 5. 9 5. 26 7. 17 8. 10 8. 52 9. 17 9. 52 10. 0 10. 10 10. 22 10. 57 11. 6 11. 26 11. 52 12. 15 12. 47 14. 30 15. 53 18. 36 18. 58 20. 40 20. 51 21. 7 22. 30 23. 30 23. 46 23. 59	.0660 .0662 .0667 .0669 .0659 *** .0973 .0971 *** .0979 .0975 .0979 .0975 .0978 .0976 .0981 .0975 .0984 .0982 .0993 .0974 .0970 .0976 *** .0977 .0966 .0970 *** .0955 .0960 .0953 .0961 .0964 .0974 .0968	July 28 h m 0. 0 2. 10 7. 19 12. 17 20. 45 23. 59	.03234 .03240 .02950 .02954 .03320 .03364	July 28 h m 1. 0 3. 0 9. 0 22. 24	61.3 62.7 63.7 60.0	61.2 62.9 63.2 60.0	July 29 h m 17. 7 17. 15 18. 10 18. 25 18. 45 19. 11 19. 35 23. 36 23. 42 23. 59	21. 9. 0 10. 0 7. 20 8. 40 6. 30 8. 20 7. 5 20. 30 22. 30 24. 0	July 29 h m 10. 40 11. 15 *** 11. 48 12. 17 *** 16. 42 *** 20. 3 23. 6 23. 59	.0989 .0969 *** .0974 .0967 *** .0978 *** .0951 *** .0948 .0958	July 30 h m 0. 0 0. 27 1. 28 1. 56 2. 52 4. 35 5. 45 7. 42 8. 15 9. 7 9. 18 9. 52 10. 29 10. 43 11. 0 11. 15 11. 40 14. 13 15. 15 15. 51 16. 35 16. 56 18. 42 19. 56 21. 40 23. 59	21. 24. 0 25. 0 24. 30 21. 50 21. 50 14. 10 12. 0 15. 0 14. 20 15. 0 14. 10 14. 40 11. 10 11. 20 9. 0 8. 0 13. 15 *** 14. 30 *** 13. 0 *** 14. 5 *** 11. 40 11. 40 12. 30 *** 8. 30 *** 9. 0 14. 55 28. 45	July 30 h m 0. 0 2. 51 6. 57 8. 49 11. 13 19. 23 22. 45 23. 59	.0958 .0950 .0960 .0951 .0977 *** .0957 *** .0976 .0968 *** .0961 .0970 .0965 *** .0970 .0966 .0973 *** .0961 *** .0974 .0972 .0941 *** .0928 .0931 .0926	July 31 h m 0. 0 0. 50 1. 27 1. 52 4. 56 6. 37 7. 54 11. 21	21. 28. 50 30. 20 29. 30 30. 0 17. 30 14. 20 13. 30 15. 5	July 31 h m 0. 0 2. 15 5. 43 8. 26 9. 0 12. 53 19. 54	.0926 .0943 .0952 *** .0949 .0945 *** .0947 ***	July 31 h m 1. 0 3. 0 9. 0 21. 0	.03413 .03330 .03053 .02950 {.02960 .03302 .03347 .03590	July 31 h m 1. 0 3. 0 9. 0 21. 0	63.2 64.0 64.7 61.7	62.8 64.6 65.2 62.0

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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.		
		Aug. 2 h m o / "		h m		h m o			Aug. 4 p m		h m o		h m o		h m o				
		14. 43	*0960 ***						0. 0	21. 24. 40	0. 0	*0938	0. 0	*03416	1. 0	65.0	66.0		
		15. 52	*0965						0. 58	26. 0	0. 30	*0945	4. 52	*03083	3. 0	66.7	67.3		
		18. 36	*0959						1. 48	25. 30	0. 41	*0940	6. 15	*03282	9. 0	67.0	68.0		
		19. 42	*0946						2. 58	22. 30	1. 4	*0947	6. 28	*03380	21. 45	59.8	60.2		
		21. 35	*0936 ***						3. 45	20. 40	1. 36	*0952	9. 14	*03313					
		22. 15	*0938 (†)						4. 20	17. 45		(†)		*03344					
									6. 42	13. 10	2. 52	*0957	11. 56	*03312					
									7. 0	13. 40	3. 4	*0955 ***	13. 13	*03384					
									8. 21	9. 50 ***	3. 40	*0964 ***	19. 0	*04008					
									9. 40	13. 30 ***	3. 47	*0956 ***	21. 13	*03882					
Aug. 3 o. 0	21. 20. 0	Aug. 3	(†)	Aug. 3	(†)	Aug. 3	1. 0	64.0	64.6	10. 11	12. 50	4. 15	*0960 ***	23. 59	*03540				
0. 55	19. 30	0. 47	*0948 ***	1. 35	*03416	3. 0	66.3	66.2	10. 39	15. 40	5. 20	*0944 ***							
1. 45	21. 20	1. 20	*0955 ***	2. 28	*03377	9. 0	67.0	68.0	11. 5	9. 20	6. 4	*0956 ***							
2. 25	21. 0	2. 15	*0943 (†)	6. 11	*03070	21. 0	63.2	63.8	11. 25	12. 40	6. 4	*0956 ***							
4. 9	15. 20	2. 15	*0943 ***	8. 28	*03022				11. 54	8. 0	6. 28	*0947 ***							
6. 11	12. 40	4. 6	*0947 (†)	13. 15	*03032				12. 25	6. 30	6. 28	*0947 ***							
9. 10	14. 40	4. 6	*0947 (†)	18. 35	*03297				12. 59	13. 40	7. 17	*0961 ***							
10. 28	12. 45	6. 14	*0960 ***	21. 54	*03433				13. 15	12. 40	7. 50	*0953 ***							
10. 54	12. 45	6. 46	*0970 ***	23. 59	*03416				13. 54	15. 15	7. 50	*0953 ***							
11. 14	13. 40	7. 7	*0964 ***						14. 16	12. 10 ***	10. 4	*0958 ***							
12. 13	12. 40	7. 7	*0964 ***						17. 44	6. 30	10. 23	*0974 ***							
12. 31	14. 0	8. 23	*0967 ***						17. 54	9. 0 ***	10. 47	*0969 ***							
13. 10	13. 30	8. 23	*0967 ***						19. 55	7. 40	11. 8	*0977 ***							
13. 13	14. 30	9. 16	*0961 ***						20. 10	6. 20	12. 7	*0950 ***							
14. 0	14. 10	9. 40	*0965 ***						21. 5	10. 0	13. 16	*0950 ***							
14. 30	15. 40	9. 40	*0965 ***						23. 59	24. 50	13. 52	*0965 ***							
15. 13	13. 10	10. 22	*0958 ***								18. 30	*0962 ***							
15. 58	9. 45	10. 22	*0958 ***								21. 42	*0927 ***							
17. 0	11. 30	11. 7	*0963 ***								23. 36	*0937 ***							
17. 36	8. 15	11. 34	*0956 ***								23. 59	*0945 ***							
18. 5	10. 50	11. 34	*0956 ***																
18. 12	9. 30	12. 10	*0956 ***																
18. 25	11. 0	12. 23	*0959 ***																
19. 56	10. 0	12. 23	*0959 ***																
20. 42	12. 20	12. 46	*0956 ***																
21. 57	19. 40	12. 46	*0956 ***																
23. 59	24. 40	13. 28	*0961 ***																
		14. 6	*0954 ***						Aug. 5	21. 24. 50	0. 0	*0945 ***	Aug. 5	0. 0	*03540	Aug. 5	8. 55	66.3	67.2
		14. 42	*0961 ***						0. 19	26. 0	0. 56	*0943 ***	0. 0	*03353	21. 0	63.0	64.0		
		14. 57	*0958 ***						1. 30	25. 5		*0943 ***	2. 4	*03060					
		15. 53	*0962 ***						1. 52	23. 50	2. 36	*0967 ***	4. 9	*03130					
		16. 30	*0958 ***						2. 37	22. 20		*0967 ***	4. 40	*03112					
		17. 20	*0961 ***						4. 43	13. 50	3. 24	*0957 ***	4. 51	*03172					
									6. 45	9. 45	5. 5	*0950 ***	4. 58	*03120					
									7. 24	10. 40	6. 13	*0959 ***	5. 37	*03160					
									8. 30	9. 20	6. 13	*0950 ***	5. 56	*03192					
									9. 14	11. 20	6. 13	*0959 ***	6. 4	*03150					
									9. 37	10. 5	6. 13	*0959 ***	6. 37	*03210					
									11. 0	11. 40	8. 17	*0962 ***	7. 0	*03173					
									11. 20	12. 30	8. 17	*0962 ***	7. 40	*03230					
									12. 5	11. 50	8. 56	*0957 ***	8. 10	*03211					
									12. 26	13. 10	9. 52	*0966 ***	10. 40	*03665					
									12. 52	10. 40	10. 30	*0959 ***	18. 11	*03780					
									13. 51	9. 30	13. 9	*0962 ***	23. 59						

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Aug. 5 14. 7 16. 36 17. 10 17. 55 18. 36 20. 12 20. 26 21. 15 21. 45 22. 24 22. 48	21. 10. 0 6. 30 7. 30 6. 40 8. 0 16. 20 16. 20 20. 0 20. 20 21. 50 22. 0 (†)	Aug. 5 14. 18 15. 7 15. 32 17. 40 21. 15 23. 17 23. 59	.0970 .0965 .0969 .0965 .0943 .0946 .0950														
Aug. 6 0. 21 0. 44 1. 44 1. 57 3. 14 4. 55 5. 40 6. 27 8. 51 10. 29 21. 0 21. 35 21. 48 21. 57 22. 12 22. 15 22. 40 23. 7 23. 12 23. 21 23. 33 23. 51 23. 59	(†) 21. 22. 0 23. 30 20. 40 21. 20 17. 5 15. 45 11. 0 13. 20 13. 0 21. 14. 10 (†) 20. 57. 1* 21. 0. 0 21. 8. 0 20. 54. 30 21. 16. 30 12. 20 32. 45 *** 21. 0 21. 40 22. 30 19. 30 24. 0 17. 0 *** 16. 50	Aug. 6 0. 0 0. 46 1. 30 2. 0 17. 5 3. 47 4. 6 4. 13 4. 40 4. 47 5. 50 6. 15 9. 40 10. 20 21. 0 21. 30 21. 42 21. 46 21. 48 22. 2 22. 36 22. 40 22. 47 22. 50 23. 6 23. 10 23. 15 23. 17 23. 35 23. 40 23. 59	.0950 .0962 *** .0956 .0966 *** .0969 .0978 .0971 .0978 .0974 *** .0998 .0987 *** .0969 *** .0970 (†) .0819* .0830 .0844 .0809 .0833 .0813 .0916 .0908 .0922 .0904 .0911 .0902 .0941 .0922 .0956	0. 0 4. 8 11. 6 20. 35 21. 15 23. 23	.03780 .03669 .03810 (†) .03110 {.03088 .02900 .02945 (†)	Aug. 6 1. 0 3. 0 9. 0 21. 0	63.8 64.7 61.5 63.0 56.0 55.3										
Aug. 7 0. 0 0. 14 0. 27 0. 48 1. 7	21. 16. 50 19. 30 14. 40 *** 32. 0 29. 50	Aug. 7 0. 0 0. 4 0. 7 0. 18 0. 38 0. 45	.0956 .0961 .0941 .0975 .0920 .0948		(†) .02883 .02720 .02883 .02870 .03144	Aug. 7 1. 0 3. 0 9. 0 21. 0	61.3 62.7 63.2 64.9 58.3										
Aug. 7 1. 52 1. 58 2. 17 2. 30 2. 51 2. 58 3. 7 3. 24 3. 30 3. 55 4. 13 4. 21 4. 26 4. 51 4. 57 6. 50 7. 44 8. 59 9. 13 9. 28 9. 52 10. 7 10. 27 10. 51 11. 15 11. 45 12. 0 13. 50 14. 14 18. 35 19. 20 20. 11 21. 25 22. 7 22. 14 22. 22 22. 52 23. 59	21. 20. 0 29. 30 21. 40 25. 0 17. 50 21. 10 14. 30 20. 0 10. 40 *** 16. 0 21. 50 20. 30 22. 30 16. 0 17. 0 *** 13. 20 17. 30 6. 46 17. 0 13. 40 16. 0 6. 45 12. 0 13. 50 13. 0 20. 30 7. 0 16. 30 *** 12. 30 13. 40 *** 9. 20 12. 0 10. 30 *** 16. 0 15. 0 16. 50 14. 26 15. 30 17. 30 23. 0	Aug. 7 0. 54 4. 13 6. 48 7. 42 8. 42 11. 23 11. 46 12. 46 17. 0 21. 0 23. 59	.0931 (†) .0936* .1057* .0960 .0994 .0982 .0997 .0964 .0970 .0956 .0967 *** .0937 *** .0920 6. 18 .0928 6. 36 .0914 .0924 *** .0923 8. 13 .0935 .0926 *** .0935 .0923 *** 9. 37 .0922 9. 57 *** 10. 26 *** 11. 5 11. 16 .0943 11. 36 .0915 11. 50 *** 12. 13 .0928 *** 14. 26 .0923 *** .0934 *** 19. 6 .0917 *** 19. 50 .0925 *** 21. 2 .0918 *** 22. 13 .0928 22. 26 .0918 22. 58 .0927 23. 10 .0939 *** 23. 59 .0938	Aug. 7 4. 13 6. 48 7. 42 8. 42 11. 23 11. 46 12. 46 17. 0 21. 0 23. 59	.02543 {.02920 .03103 .03063 .03112 .03176 .03110 .03183 .03622 .03893 .03830												
Aug. 8 0. 0 0. 14 0. 27 0. 48 1. 7	21. 23. 0 *** 0. 7	Aug. 8 0. 0 0. 7	.0938 .0944			Aug. 8 1. 0 3. 0 9. 0 21. 0	57.8 58.3										
Aug. 8 0. 0 0. 14 0. 27 0. 48 1. 7	21. 23. 0 *** 0. 7	Aug. 8 0. 0 0. 7	.0938 .0944			Aug. 8 1. 0 3. 0 9. 0 21. 0	57.8 58.3										

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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Aug. 8 h m 0. 43	21. 23. 30 ° ′ ″ (†)	Aug. 8 h m 0. 13	.0929	Aug. 8 h m 2. 35	.03878	Aug. 8 h m 3. 0	60.0	61.0	Aug. 8 h m 14. 11	21. 15. 20	Aug. 8 h m 16. 26	.0940					
1. 39	5. 40	0. 20	.0934	3. 11	.03579	6. 0	61.6	62.0	14. 28	8. 10	16. 32	.0951					
1. 45	16. 30	0. 37	.0927		***	9. 10	62.0	63.0	15. 7	20. 30	16. 35	.0896					
1. 51	24. 40		.0935	3. 17	.03696	12. 0	61.6	62.0	***	***	16. 37	.0960					
1. 58	19. 50	1. 0	(†)	3. 30	.03570	18. 0	59.8	62.3	16. 21	15. 0	16. 40	.0912					
2. 8	22. 0	3. 0	.0917*	3. 56	.03840	21. 0	60.0	61.3	16. 29	19. 30	16. 46	.0952					
2. 11	36. 30	7. 17	.1074*	4. 11	.03532				19. 12	17. 0	(†)	.0904					
2. 28	15. 0	7. 30	.0995	4. 24	.03943				***	***	17. 2	.0905					
2. 34	22. 30	7. 35	.0978	4. 30	.03850				20. 40	13. 30	17. 6	.0956					
2. 44	16. 15	7. 47	.1005	4. 37	.03880				***	***	17. 8	.0922					
2. 52	23. 40	7. 59	.0961	4. 41	.03853				21. 40	19. 30	17. 16	.0954					
2. 57	22. 0	8. 7	.0951	4. 41	.03922				***	***	17. 18	.0915					
3. 15	36. 0	8. 16	.0969	4. 44	.03750				21. 48	17. 0	17. 26	.0948					
	(†)	8. 20	.0949	4. 50	.03750				***	***	17. 35	.0920					
3. 54	36. 10		.0976	5. 30	.03670				22. 12	23. 40	17. 42	.0952					
4. 0	40. 20	8. 37	***	5. 35	.03562				***	***	***	***					
4. 20	28. 15	8. 46	.0946		***				22. 16	20. 0	18. 26	.0918					
4. 24	32. 0	9. 15	.0976	6. 43	.03573				***	***	18. 32	.0925					
4. 30	35. 15	9. 40	.0918	6. 52	.03680				22. 58	19. 30	18. 44	.0864					
4. 42	19. 30	9. 47	.0943	7. 21	.03441				***	***	18. 47	.0928					
4. 45	24. 0	10. 3	.0930	7. 51	.03292				23. 13	10. 30	18. 50	.0892					
4. 54	15. 30	10. 6	.0947	8. 15	.03233				23. 26	19. 40	18. 57	.0918					
5. 0	17. 0	10. 16	.0938	8. 26	.03260				***	***	18. 59	.0862					
5. 6	13. 20	10. 24	.0960	8. 37	.03222				23. 59	17. 40	19. 3	.0912					
5. 15	29. 0		.0942	8. 43	.03250						19. 7	.0882					
5. 29	15. 30	11. 0	***	8. 43	.03250						19. 7	.0882					
5. 30	21. 15		.0960	9. 15	.03090						19. 13	.0932					
	***	11. 30	***		***						19. 17	.0886					
6. 11	30. 30		.0942	13. 56	.03067						19. 19	.0922					
6. 16	27. 50	11. 46	***	14. 39	.02997						19. 30	.0910					
6. 21	38. 0	11. 58	.0958	14. 58	.03000						***	***					
6. 30	25. 15	12. 7	.0939	15. 12	.03052						19. 47	.0896					
6. 36	21. 25. 50	12. 17	.0933		***						***	***					
7. 10	20. 51. 30		.0946	21. 10	.03290						20. 10	.0905					
7. 44	21. 25. 0	12. 36	***	23. 59	.03328						20. 16	.0888					
7. 59	18. 15	12. 40	.0933								***	***					
	***	12. 45	.0964								20. 36	.0916					
8. 26	22. 40	12. 53	.0940								***	***					
8. 40	14. 30	13. 4	.0966								21. 40	.0928					
9. 7	30. 45	13. 6	.0952								21. 43	.0912					
9. 42	13. 30	13. 14	.0964								***	***					
9. 51	17. 30	13. 17	.0948								21. 52	.0946					
9. 58	16. 0	13. 26	.0964								21. 57	.0920					
	***	13. 35	.0958								22. 2	.0937					
10. 15	17. 10	13. 40	.0966								***	***					
	***	13. 46	.0932								22. 8	.0896					
10. 52	13. 5	13. 57	.0967								22. 18	.0935					
	***		***								***	***					
11. 28	16. 0	14. 16	.0932								22. 30	.0893					
	***		.0947								22. 46	.0926					
11. 40	13. 0	14. 47	***								22. 47	.0893					
	***		.0910								22. 50	.0928					
12. 58	17. 20	15. 38	***								23. 0	.0891					
	***		.0946								23. 5	.0931					
13. 41	12. 50	15. 50	***								23. 7	.0904					
	***		.0932								23. 18	.0946					
13. 51	16. 30	16. 7	.0955								23. 20	.0914					
14. 0	13. 20	16. 14	.0935								23. 27	.0946					

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
		Aug. 8 h m 23. 30	0915														
		23. 40	0945														
		23. 43	0930 (†)														
Aug. 9 o o	21. 17. 40 ***	Aug. 9 h m 1. 0	(†) 0935*	Aug. 9 h m 2. 25	03328	Aug. 9 h m 0. 0	60. 8	61. 7	Aug. 9 h m 9. 41	21. 19. 0	Aug. 9 h m 17. 48	0934 ***					
o. 28	17. 35	3. 0	0902*	2. 51	03292	1. 0	61. 3	62. 0	9. 44	20. 30	18. 5	0967					
o. 40	24. 30 ***	9. 0	0971*	3. 6	03486	3. 0	63. 0	64. 0	10. 0	12. 0	18. 8	0940					
1. 10	21. 0	9. 25	0962	3. 12	03420	9. 0	63. 0	64. 0	10. 14	17. 30	18. 14	0960 ***					
1. 36	25. 0 ***	9. 32	0971	3. 29	03470	21. 0	58. 2	59. 9	10. 28	17. 30	19. 5	0941					
1. 45	30. 30	9. 37	0941	3. 45	03222				10. 45	15. 40	19. 13	0964					
1. 58	27. 0 ***	9. 40	0961	3. 52	03270				10. 51	18. 0	19. 27	0940					
2. 9	27. 40 ***	9. 46	0924	4. 0	03218				11. 41	14. 0	19. 40	0957 ***					
2. 14	26. 10	10. 0	0956	4. 54	03220				11. 56	20. 0	20. 4	0932					
2. 19	29. 50	10. 7	0946	5. 20	03084				13. 29	11. 30	20. 10	0968					
2. 25	28. 30	10. 16	0958	7. 0	02986				13. 50	18. 35	20. 17	0941					
2. 39	35. 50	10. 35	0930	7. 15	03178				14. 7	13. 40	20. 32	0958 ***					
2. 49	15. 40	10. 47	0944 ***	7. 42	02810				14. 17	17. 40	20. 42	0926					
3. 0	19. 20	11. 8	0932	8. 10	02823				14. 28	16. 45	20. 47	0954					
3. 11	15. 40	11. 30	0948	8. 20	02898				14. 39	20. 10	20. 53	0928					
3. 14	22. 45	11. 52	0946	8. 45	02790				15. 30	13. 0	21. 6	0946 ***					
3. 27	14. 0	12. 4	0937	12. 12	02892				16. 40	18. 30	21. 41	0950 ***					
3. 40	20. 40	12. 9	0948	12. 18	02868				17. 0	12. 15	23. 0	0939					
3. 45	19. 30	12. 14	0940	12. 48	02850				17. 15	15. 45	23. 30	0915 (†)					
4. 0	27. 15	12. 17	0959	13. 39	03307				17. 28	10. 0 ***							
4. 13	27. 0	12. 20	0934 ***	22. 43	03300				17. 56	16. 40 ***							
4. 17	35. 40	12. 25	0947	23. 59					18. 39	10. 30 ***							
4. 30	26. 50	12. 38	0981 ***						18. 57	23. 0 ***							
4. 34	30. 20	12. 45	0955						19. 13	17. 40							
4. 53	17. 30	13. 0	0971 ***						19. 55	7. 30							
4. 56	20. 30	13. 30	0952						20. 7	20. 20							
5. 7	20. 5	13. 33	0972						20. 25	12. 15							
5. 22	25. 30	13. 37	0951						20. 45	17. 0							
5. 43	18. 0	13. 44	0964						20. 57	17. 0							
5. 57	23. 50	13. 48	0945						21. 21	20. 30							
6. 14	13. 30	13. 50	0958 ***						21. 27	21. 0							
7. 0	17. 10	15. 16	0970						21. 42	21. 0							
7. 14	3. 10	15. 24	0980 ***						21. 49	24. 25 ***							
7. 22	25. 0	16. 7	0956 ***						22. 27	21. 0							
7. 27	22. 30	16. 33	0960						22. 37	24. 0 ***							
7. 37	36. 0	16. 37	0976						23. 7	21. 10							
7. 46	22. 30	16. 43	0946						23. 19	27. 30							
8. 0	28. 50 (†)	16. 46	0964						23. 30	25. 30 (†)							
8. 45	18. 20	17. 5	0934 ***														
8. 51	22. 50	17. 37	0954						Aug. 10	(†)	Aug. 10	(†)	Aug. 10	o. 0	03300	1. 0	61. 9
8. 54	21. 20	17. 40	0942						o. 12	21. 26. 30 ***	1. 0	0926*	1. 9	03300	3. 0	64. 0	65. 7
8. 56	24. 30	17. 46	0971 ***						o. 52	21. 50 ***	3. 0	0974*	2. 11	03202	9. 0	65. 7	66. 5
9. 0	20. 0										5. 50	0955	2. 39	03230	21. 0	60. 0	60. 2
9. 13	15. 20 ***										5. 54	0943	4. 24	02948 ***			
9. 28	21. 0																

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Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Aug. 10 1. 30	21. 28. 50	Aug. 10 6. 15	.0970	Aug. 10 4. 57	.02990				Aug. 10 14. 25	21. 20. 0	Aug. 11 0. 0	.03750	Aug. 11 1. 0	63. 0	63. 1		
1. 43	24. 0	6. 29	.0958	5. 6	.03100				(†)		0. 3	.03745	3. 0	64. 3	65. 0		
1. 49	25. 0	***	***	5. 24	.02926				21. 0	11. 40*	1. 57	.0940	9. 0	65. 6	66. 1		
1. 57	26. 40	7. 20	.0978	6. 53	.03080						3. 8	.0946	22. 30	61. 5	62. 3		
2. 8	28. 30	***	***	8. 22	.03145						3. 20	.0931					
2. 27	20. 15	7. 36	.0950	{	.03280						3. 31	.0978	5. 21	.03130			
2. 37	17. 0	***	***	10. 56	.03240						5. 43	.0952	10. 9	.02912			
2. 50	21. 20	8. 46	.0945	11. 13	.03172						6. 0	.0982	11. 44	.02880			
3. 2	16. 40	***	***	11. 23	.02930						7. 15	.0932	11. 49	.02890			
3. 18	16. 35	9. 20	.0965	11. 30	.03020						7. 50	.0946	19. 14	.03234			
	***	9. 23	.0954	12. 0	.02438						8. 7	.0920	21. 38	.03308			
3. 50	29. 0	9. 27	.0964	12. 43	.03139						8. 15	.0959	22. 4	.03450			
4. 0	22. 20	9. 32	.0956	12. 50	.03045						8. 26	.0938	22. 13	.03100			
4. 13	25. 20	9. 40	.0964	12. 56	.03090						8. 43	.0974	22. 20	.03518			
4. 19	19. 40	9. 46	.0954	13. 7	.03020						9. 11	.0941	23. 59	.03480			
4. 28	22. 30	***	***	13. 29	.03048						9. 26	.0941					
4. 39	19. 40	10. 16	.0974	13. 57	.03270						9. 45	.0962					
4. 41	31. 0	***	***	14. 35	.03368						9. 57	.0979					
4. 45	28. 20	10. 32	.0957	14. 43	.03322						10. 10	.0979					
4. 48	31. 5	***	***	(†)	(†)						10. 21	.0956					
5. 6	12. 0	10. 51	.0988	21. 0	.03810						10. 44	.0974					
5. 12	19. 40	11. 5	.0966	21. 55	.03844						11. 17	.0957					
5. 26	12. 0	11. 13	.1088	23. 59	.03750						11. 48	.0962					
5. 28	14. 10	11. 17	.1050								12. 0	.0946					
5. 39	10. 20	11. 20	.1102								12. 35	.0999					
5. 44	14. 30	11. 26	.1050								12. 51	.0966					
5. 56	15. 55	11. 37	.0916								12. 58	.0997					
6. 6	14. 30	11. 45	.0971								13. 12	.0950					
6. 22	17. 30	11. 50	.0884								14. 5	.0974					
	***	11. 56	.0898								14. 28	.0946					
6. 54	19. 0	12. 5	.0844								14. 40	.0971					
7. 9	17. 0	12. 17	.0910								15. 12	.0956					
	***	12. 36	.0978								15. 52	.0984					
7. 40	22. 5	12. 38	.0960								16. 15	.0967					
8. 12	17. 30	***	***								16. 40	.0941					
	***	13. 10	.0914								17. 12	.0962					
8. 28	18. 0	***	***								17. 26	.0980					
8. 40	16. 30	13. 45	.0946								17. 39	.0980					
	***	***	***								18. 11	.0956					
9. 44	19. 30	14. 0	.0944								18. 25	.0968					
10. 17	2. 10	14. 8	.0950								18. 43	.0948					
10. 40	15. 20	(†)	(†)								18. 51	.0961					
11. 6	20. 0	21. 0	.0911*								19. 9	.0966					
	(†)										19. 13	.0966					
11. 44	31. 30										19. 19	.0954					
11. 53	39. 30										19. 57	.0980					
12. 2	24. 50										20. 7	.0950					
12. 7	27. 10										20. 14	.0950					
12. 29	12. 0										20. 39	.0950					
12. 31	13. 10																
12. 39	5. 10																
12. 42	16. 30																
13. 0	30. 0																
13. 27	12. 20																
13. 41	6. 30																
13. 45	9. 20																
13. 55	6. 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Aug. 11 20. 50	21. 19. 10	Aug. 11 7. 50	·0970						Aug. 12 0. 51	21. 34. 30	Aug. 12 4. 46	·1002	Aug. 12 0. 42	·03442			
	(†)	7. 53	·0987						1. 14	20. 30	4. 48	·1090	1. 9	·03608			
22. 30	20. 2*	8. 4	·0958						1. 16	22. 30	4. 52	·1104	***	***			
		8. 16	·0981						1. 20	21. 30	4. 57	·1060	1. 21	·03525			
		8. 20	·0967						1. 27	24. 0	5. 5	·1116	1. 30	·03608			
		8. 36	·0968						1. 33	22. 0	5. 15	·1091	1. 35	·03557			
		8. 45	·0954						1. 41	23. 5	5. 22	·1139	***	***			
		9. 5	·0977						1. 43	21. 30	5. 36	·1114	2. 10	·03750			
		9. 16	·1000						1. 47	22. 30	5. 43	·1098	2. 18	·03718			
		9. 30	·0960						1. 59	34. 0	5. 46	·1120	2. 59	·04160			
		9. 43	·1028						2. 6	30. 50	5. 57	·1034	***	***			
		9. 47	·0972						2. 15	36. 45		***	3. 43	·03882			
		10. 5	·0941						2. 19	33. 45	6. 7	·1055	3. 50	·03980			
		10. 22	·0950						2. 23	34. 30	6. 22	·1026	4. 8	·03780			
		10. 45	·0943						2. 36	30. 45	6. 26	·1043	***	***			
		11. 17	·0952						2. 44	36. 20	6. 40	·0969	4. 42	·03851			
		11. 43	·0942						2. 53	34. 0	6. 46	·0994	4. 49	·03795			
		12. 28	·0964						(†)	(†)	6. 58	·0957	4. 58	·04080			
		12. 36	·0942						3. 38	31. 40	7. 6	·0965	5. 19	·03530			
		12. 58	·0942						3. 59	14. 20	7. 13	·0932	5. 29	·03563			
		13. 2	·0956						4. 11	14. 10	7. 16	·0946	5. 45	·03510			
		13. 57	·0955						4. 15	12. 0	7. 26	·0920	5. 51	·03620			
		14. 36	·0945						4. 33	27. 40	7. 35	·0962	6. 22	·03369			
		15. 30	·0956						4. 44	23. 0	7. 42	·0907	6. 30	·03407			
		16. 18	·0951						4. 48	34. 0	7. 45	·0924	6. 39	·03340			
		16. 53	·0930						4. 56	27. 15	7. 47	·0882	6. 57	·03304			
		17. 26	·0912						4. 59	29. 0	7. 49	·0894	7. 22	·03360			
		18. 15	·0925						5. 1	26. 50	7. 52	·0870	7. 28	·03163			
		18. 34	·0910						5. 7	21. 28. 10	8. 6	·0955	7. 31	·03222			
		18. 43	·0891						5. 31	20. 58. 0	8. 8	·0882	7. 43	·02828			
		18. 52	·0863						5. 39	21. 27. 15	8. 17	·0936	7. 48	·02880			
		18. 56	·0870						5. 45	17. 0	8. 36	·0910	7. 52	·02822			
		19. 27	·0882						5. 48	32. 10	***	***	8. 15	·03220			
		19. 32	·0866						5. 55	24. 45	8. 51	·0931	9. 10	·03333			
		19. 43	·0882						6. 0	29. 50	9. 4	·0905	9. 26	·03200			
		19. 51	·0845						6. 13	10. 0	9. 10	·0987	***	***			
		20. 4	·0872						6. 21	20. 50	9. 17	·0960	10. 15	·03051			
		20. 16	·0854						6. 24	19. 30	9. 22	·0998	10. 46	·03144			
		20. 22	·0863						6. 43	23. 45	9. 37	·0943	11. 10	·02900			
		20. 36	·0842						6. 47	21. 30	9. 46	·0979	11. 14	·02955			
		20. 46	·0875						6. 54	25. 0	***	***	11. 44	·02622			
		22. 30	·0914*						7. 0	21. 20	10. 5	·0920	11. 56	·02790			
									7. 12	26. 0	10. 8	·0942	12. 9	·02771			
									7. 23	20. 5	10. 17	·0903	12. 56	·03030			
									7. 28	23. 0	***	***	13. 5	·03010			
										***	10. 30	·0916	13. 21:	·03156			
									7. 41	23. 30	10. 35	·0904	13. 54	·02864			
									7. 43	22. 0	10. 40	·0922	17. 21:	·03360			
									7. 45	21. 30. 50	10. 42	·0903	21. 30	·03490			
									7. 54	20. 57. 55	10. 47	·0927	22. 22	·03548			
									7. 58	21. 29. 0	11. 7	·0780	23. 46	·03690			
									8. 11	20. 40	11. 32	·0878	23. 59	·03673			
									8. 14	32. 55	11. 40	·0854					
									8. 27	11. 15	12. 1	·0930					
									8. 31	15. 30	***	***					
									8. 43	11. 30	12. 25	·0898					
									8. 57	14. 30	***	***					
Aug. 12 0. 45	(†) 21. 32. 50	Aug. 12 4. 30	·0956	Aug. 12 0. 0	·03480 ***	Aug. 12 8. 0	64. 564. 5	61. 262. 3	9. 0	13. 0	13. 2	·0924					
									9. 13	19. 20	13. 10	·0898					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Aug. 12		Aug. 12															
9. 17	21. 17. 20	13. 23	.0924						Aug. 12	23. 10	21. 14. 30						
9. 22	21. 40	13. 30	.0918						23. 18	13. 30							
9. 28	17. 30	13. 45	.0958						23. 26	14. 40							
9. 42	25. 30	13. 55	.0897						23. 37	10. 45							
9. 46	18. 20	14. 4	.0923						23. 43	14. 0							
9. 52	21. 5		***						23. 45	14. 20							
9. 59	17. 20	14. 25	.0940						23. 59	14. 30							
10. 3	18. 30	14. 39	.0918						Aug. 13		Aug. 13		Aug. 13				
10. 12	12. 40	15. 3	.0938						0. 0	21. 14. 30	(†)	0. 0	.03673	1. 0	63. 2	64. 0	
10. 15	14. 30	15. 20	.0934						0. 9	15. 20	1. 0	.0982*	0. 26	.03728	3. 0	64. 7	66. 0
10. 29	6. 30	15. 40	.0911						0. 14	12. 30	1. 40	.0959	0. 40	.03670	9. 0	65. 5	66. 0
10. 43	10. 30	16. 10	.0924						0. 19	11. 30		***	0. 46	.03708	21. 0	61. 7	62. 3
10. 46	9. 50	16. 17	.0917						0. 29	13. 30	2. 26	.0953	2. 7	.03590			
11. 11	29. 30	16. 30	.0931						0. 44	18. 0	2. 45	.0968	4. 45	.03272			
11. 17	26. 55		***						0. 51	12. 30	3. 7	.0940	5. 57	.03200			
11. 30	31. 40	17. 40	.0934						0. 57	18. 20	3. 26	.0999		.03070			
11. 52	31. 10		***						1. 11	14. 15	3. 53	.0944	7. 10	.03203			
12. 4	27. 0	18. 41	.0922						1. 44	19. 30		***	8. 52	.03037			
12. 15	34. 30		***						1. 58	20. 40	4. 7	.0938	9. 45	.03018			
12. 49	15. 20	20. 0	.0923						2. 10	18. 50	4. 36	.0959	10. 13	.02944			
12. 55	14. 0		***						2. 14	19. 55	4. 48	.0938	10. 58	.03000			
12. 59	14. 40	20. 52	.0889						2. 36	17. 40		***	11. 22	.02966			
13. 9	6. 10	21. 34	.0834						2. 48	19. 50	5. 43	.0952	21. 40	.03470			
13. 43	41. 30	21. 43	.0858						3. 26	16. 45	5. 59	.0970	23. 59	.03420			
14. 16	10. 30		***						3. 36	13. 20	6. 6	.0982					
14. 25	10. 40	22. 20	.0866						3. 47	17. 30	6. 10	.0974					
14. 40	21. 2. 30	22. 26	.0883						4. 11	14. 45	6. 15	.0988					
14. 57	20. 59. 0	22. 33	.0871						4. 22	16. 45	6. 22	.0967					
15. 13	21. 1. 30	22. 45	.0898						4. 29	15. 30	6. 37	.0960					
15. 27	0. 20	22. 53	.0911						4. 31	16. 30	6. 46	.0979					
15. 40	5. 15	23. 10	.0928						4. 43	12. 30	7. 0	.0971					
15. 45	4. 0	23. 30	.0915						5. 28	11. 20	7. 5	.0978					
16. 12	8. 0	23. 36	.0944						6. 3	16. 10	7. 8	.0967					
16. 21	6. 10	23. 42	.0932						6. 44	9. 30	7. 10	.0976					
16. 42	8. 30		(†)						7. 0	12. 50	7. 16	.0965					
17. 15	8. 0								7. 28	6. 0	7. 21	.0976					
17. 29	5. 50								7. 41	5. 20		***					
18. 38	11. 0								7. 49	10. 10	7. 47	.0954					
19. 14	9. 30								7. 58	5. 30	8. 0	.0980					
19. 21	12. 20								8. 5	12. 40	8. 5	.0962					
20. 34	12. 20								8. 11	10. 40	8. 10	.0977					
20. 40	13. 45								8. 19	16. 0	8. 26	.0963					
20. 48	13. 20								8. 44	13. 45	8. 47	.0963					
21. 10	16. 30								8. 59	17. 30	9. 17	.0933					
21. 40	10. 40								9. 43	5. 0	9. 32	.0930					
21. 52	15. 30								9. 54	6. 0	9. 45	.0946					
21. 58	14. 45								10. 9	17. 30		***					
22. 12	18. 20								10. 18	20. 25	10. 15	.0950					
22. 15	16. 0								10. 40	15. 0	10. 26	.0934					
22. 22	17. 10								10. 49	13. 45		***					
22. 46	12. 30								11. 28	21. 30	11. 5	.0949					
									11. 44	17. 30	11. 11	.0960					
									11. 47	18. 20	11. 35	.0940					
									12. 12	14. 50		***					
									12. 26	16. 30	12. 22	.0950					
									13. 55	13. 20	12. 54	.0941					

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

INDICATIONS OF THE MAGNETOMETERS

Table with columns for Greenwich Mean Solar Time, Western Declination, Horizontal Force in parts of the whole H. F. uncorrected for Temperature, Vertical Force in parts of the whole V. F. uncorrected for Temperature, and Readings of Thermometers. It contains data for dates Aug. 13, 14, 15, and 16, with multiple columns for each date's observations.

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol † attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
		Aug. 16								Aug. 18							
		17. 30	.0948 ***							16. 43	21. 11. 50	8. 33	.0988				
		19. 51	.0929 ***							17. 5	10. 45	8. 50	.0974				
		21. 35	.0925 ***							17. 44	20. 20	9. 4	.0978				
		23. 59	.0937							17. 56	19. 0	9. 8	.0970				
		Aug. 17															
	21. 26. 5	0. 0	.0937	Aug. 17	0. 0	.03530	1. 0	61. 9	61. 7	18. 7	20. 10	9. 33	.0989				
	25. 0	2. 6	.0948	6. 53	.02947		3. 0	62. 0	63. 0	18. 45	16. 5	9. 36	.0970				
	1. 56	2. 20	.0942 ***	7. 38	.02910		9. 0	63. 6	63. 9	18. 52	17. 0	9. 45	.0974				
	4. 28	14. 30	.0942 ***	11. 11	.03016		21. 0	57. 3	58. 2	19. 14	13. 20		***				
	6. 17	12. 40	.0942 ***	19. 49	.03547					19. 21	14. 50	10. 46	.0956				
	7. 0	13. 35	.0949	22. 37	.03600					19. 30	15. 15	10. 53	.0959				
	7. 42	12. 30	.0959	23. 59	.03512					19. 40	13. 50		***				
	9. 30	13. 30	.0950 ***		.03523					20. 14	21. 20	11. 21	.0958				
	19. 16	12. 0	.0951 ***							21. 28	***	11. 36	.0949				
	20. 28	13. 10	.0964							21. 58	16. 30	12. 5	.0977				
	23. 39	24. 45	.0951 ***							21. 58	20. 45	12. 56	.0979				
	23. 59	24. 30	.0942							22. 30	21. 30	13. 28	.0961				
		Aug. 18															
	21. 24. 30	0. 0	.0951	Aug. 18	0. 0	.03523	1. 0	58. 0	58. 2	22. 54	24. 45	14. 4	.0968				
	23. 55	0. 36	.0955	0. 10	.03530		3. 0	59. 0	58. 8	23. 59	25. 20	14. 26	.0961				
	23. 50	1. 20	.0970 ***	5. 13	.03367		9. 0	61. 0	61. 3	23. 59	14. 45	14. 45	.0969				
	1. 17	24. 55	.0969 ***	12. 12	.03453		22. 27	61. 0	61. 2	23. 59	15. 6	15. 6	.0969				
	3. 39	18. 45	.0974	15. 7	.03175					23. 59	15. 14	15. 14	.0963				
	3. 45	19. 0	.0968	20. 15	.03160					23. 59	15. 33	15. 33	.0977				
	4. 51	16. 0	.0974	23. 59	.03295					23. 59	15. 45	15. 45	.0969				
	5. 30	15. 30	.0974		.03164					23. 59	15. 50	15. 50	.0972				
	7. 13	16. 10	.0969 ***							23. 59	16. 15	16. 15	.0962				
	7. 58	15. 45	.0978							23. 59	16. 40	16. 40	.0975				
	8. 12	14. 30	.0982 ***							23. 59	17. 3	17. 3	.0961				
	9. 28	13. 40	.0974 ***							23. 59	17. 36	17. 36	.0958				
	9. 39	12. 0	.0969							23. 59	18. 15	18. 15	.0967				
	10. 0	12. 30	.0981							23. 59	18. 30	18. 30	.0956				
	10. 45	7. 45	.0974 ***							23. 59	18. 49	18. 49	.0946				
	11. 27	8. 30	.0982 ***							23. 59	19. 15	19. 15	.0946				
	11. 48	16. 40	.0972							23. 59	19. 36	19. 36	.0933				
	12. 28	7. 55	.0978							23. 59	19. 45	19. 45	.0937				
	12. 38	8. 20	.0982 ***							23. 59	19. 50	19. 50	.0931				
	12. 45	7. 30	.0974 ***							23. 59	20. 15	20. 15	.0946				
	13. 17	10. 15	.0969							23. 59	20. 40	20. 40	.0945				
	13. 28	9. 0	.0981							23. 59	21. 7	21. 7	.0933				
	13. 50	11. 0	.0974 ***							23. 59	21. 17	21. 17	.0937				
	13. 58	8. 0	.0974 ***							23. 59	23. 0	23. 0	.0917				
	14. 13	7. 30	.0978							23. 59	23. 50	23. 50	.0933				
	14. 38	11. 40	.0982 ***							23. 59	23. 59	23. 59	.0929				
	14. 42	10. 45	.0974 ***							23. 59	23. 59	23. 59	.0929				
	14. 51	11. 0	.0974 ***							23. 59	23. 59	23. 59	.0929				
	15. 14	7. 45	.0977							23. 59	23. 59	23. 59	.0929				
	15. 28	9. 20	.0991 ***							23. 59	23. 59	23. 59	.0929				
	15. 50	9. 40								23. 59	23. 59	23. 59	.0929				
	16. 15	7. 40								23. 59	23. 59	23. 59	.0929				
		Aug. 19															
	21. 25. 20	0. 0	.0929 ***	Aug. 19	0. 0	.03164	8. 35	65. 3	65. 6	Aug. 19	0. 0	4. 39	.03044	21. 0	64. 0	65. 0	
	25. 50	4. 39	.0942 ***	4. 39	.02845					Aug. 19	6. 56	8. 40	.02830				
	24. 30	0. 53	.0974 ***	7. 20	.0977					Aug. 19	8. 40	12. 2	.02912				
	25. 30	1. 26	.0977 ***	7. 50	.0991 ***					Aug. 19	12. 2	21. 4	.02822				
	24. 30	3. 4	.0955	8. 4						Aug. 19	21. 4		.02956				
	25. 30	3. 4								Aug. 19							
	24. 30	3. 4								Aug. 19							
	22. 30	3. 4								Aug. 19							
	23. 20	3. 4								Aug. 19							

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Aug. 19		Aug. 19		Aug. 19		Aug. 19			Aug. 20		Aug. 20			Aug. 20			
4. 41	21. 16. 30	3. 20	0950	23. 59	02860				15. 14	21. 18. 0	11. 15	0961					
4. 51	17. 45	3. 42	0959						15. 52	15. 30		0956					
5. 10	12. 20	4. 0	0957						16. 43	12. 45	11. 42	0956					
5. 29	15. 20	4. 26	0963						17. 35	13. 50	12. 4	0966					
6. 10	17. 20	4. 40	0975						18. 15	13. 0	12. 17	0958					
6. 58	17. 30	4. 53	0940						18. 55	9. 5	12. 50	0961					
7. 17	16. 20	5. 5	0946						19. 5	9. 20		0950					
7. 27	17. 0	5. 17	0945						19. 25	8. 25	15. 7	0950					
8. 22	14. 30	5. 48	0956						20. 0	8. 55	16. 50	0963					
9. 2	7. 45		***						20. 12	10. 0	17. 42	0952					
9. 30	12. 20	6. 59	0965						20. 22	9. 55	18. 35	0956					
11. 13	15. 50		***						21. 28	14. 0	21. 53	0922					
11. 27	17. 45	8. 5	0969						23. 35	23. 0	23. 59	0935					
11. 42	15. 20	8. 42	0954						23. 59	23. 30							
12. 4	14. 40	9. 4	0962														
12. 29	17. 40		***														
12. 52	15. 30	9. 53	0956						Aug. 21		Aug. 21		Aug. 21		Aug. 21		
16. 37	12. 50		***						0. 0	21. 23. 30	0. 0	0935	0. 0	03890	1. 0	63. 0	63. 7
18. 45	9. 20	10. 20	0958						1. 2	25. 10	2. 48	0952	1. 46	03896	3. 0	64. 7	65. 8
19. 30	9. 15	10. 26	0962						2. 11	23. 55		***	7. 0	03410	9. 8	66. 0	67. 0
21. 20	13. 55	10. 45	0955						4. 46	15. 15	3. 27	0963		03460	21. 0	60. 8	61. 3
21. 34	13. 20	10. 52	0959						6. 20	12. 40	3. 38	0960	11. 20	03472			
23. 59	23. 35	11. 26	0961						7. 11	13. 45	3. 52	0965	11. 39	03410			
		11. 45	0956						7. 40	13. 30	4. 30	0960	12. 46	03433			
			***						8. 18	14. 55		***	23. 59	04192			
		12. 53	0959						9. 11	12. 50	5. 40	0965					
		17. 32	0952						9. 28	13. 45	6. 7	0956					
			***						9. 58	12. 0	7. 0	0960					
		21. 45	0916						10. 19	13. 30	7. 6	0969					
		22. 46	0913						10. 40	12. 30		***					
		23. 50	0927						10. 48	13. 0	9. 40	0953					
		23. 59	0935						11. 11	11. 20	10. 17	0969					
									11. 26	16. 30	10. 45	0956					
									11. 35	14. 20		***					
									12. 4	17. 25	11. 21	0960					
Aug. 20		Aug. 20		Aug. 20		Aug. 20			12. 16	14. 0	11. 40	0979					
0. 0	21. 23. 40	0. 0	0935	0. 0	02860	1. 0	65. 0	65. 7	12. 40	13. 30	12. 1	0958					
0. 35	27. 0	0. 25	0939	5. 15	03248	3. 0	65. 8	66. 7	13. 16	5. 45	12. 6	0941					
0. 43	26. 15	0. 45	0925	8. 37	03370	9. 0	66. 4	67. 0	13. 40	7. 50	12. 36	0970					
1. 16	26. 10	1. 5	0933	12. 41	03356	21. 0	61. 7	62. 3	13. 58	7. 20	13. 7	0954					
2. 15	23. 25	1. 36	0928	20. 14	03762				14. 51	12. 40	13. 30	0958					
2. 26	24. 0	2. 20	0949	21. 16	03760				15. 44	9. 55		***					
2. 50	21. 30	2. 48	0935	23. 59	03890				16. 14	10. 45	14. 32	0950					
3. 12	22. 0	3. 10	0961						16. 44	13. 20		***					
3. 37	19. 0	3. 34	0945						18. 3	5. 20	15. 30	0956					
3. 57	17. 45	3. 47	0938						18. 16	10. 30	15. 46	0952					
4. 28	17. 10	4. 15	0949						18. 51	4. 45	16. 20	0960					
5. 29	12. 45	4. 33	0945							***		***					
8. 32	12. 40	4. 50	0946						19. 10	6. 45	17. 45	0958					
9. 37	14. 20	5. 17	0962						19. 13	5. 30		***					
9. 54	13. 30		***						19. 16	7. 10	18. 17	0967					
10. 42	14. 0	6. 46	0955						19. 54	6. 15		***					
11. 45	11. 50	7. 0	0960						20. 25	8. 55	18. 42	0955					
12. 13	17. 45	7. 11	0957						20. 50	6. 30		***					
12. 52	13. 45		***						23. 42	27. 0	19. 42	0949					
13. 12	13. 10	8. 21	0957						23. 48	26. 0		***					
14. 10	12. 50	8. 37	0952						23. 55	27. 30	20. 20	0951					
14. 21	13. 20		***						23. 59	27. 15		***					
14. 41	12. 50	11. 0	0953														

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol † denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
		Aug. 21 22. 17	*0920 ***								Aug. 23 7. 0	21. 14. 30	5. 17	*0962			
		23. 59	*0948								7. 32	5. 55	5. 38	*0971			
Aug. 22		Aug. 22		Aug. 22	Aug. 22						8. 10	10. 50	5. 46	*0962			
0. 0	21. 27. 15	0. 0	*0948	0. 0	*04192	0. 0	61. 3	61. 2			8. 40	15. 0	6. 16	*0970			
0. 15	28. 45	0. 45	*0946	0. 37	*04233	1. 0	61. 8	61. 2			10. 51	13. 55		***			
1. 36	29. 20	0. 58	*0955		*04210	3. 0	62. 7	62. 9			11. 14	11. 15	6. 46	*0964			
1. 50	32. 0	1. 30	*0958	1. 26	*04138	6. 0	63. 2	63. 0			11. 25	12. 10	7. 15	*0950			
3. 10	24. 45	1. 48	*0975	2. 56	*04135	9. 0	63. 0	64. 1			11. 39	10. 30	7. 35	*0968			
3. 15	25. 0	2. 11	*0962		*03974	12. 0	62. 3	62. 9			11. 45	14. 30		***			
4. 30	20. 0		***	5. 30	*03692	18. 0	57. 1	57. 7			12. 12	4. 30	8. 40	*0961			
6. 58	16. 30	2. 56	*0950	11. 16	*04112	21. 0	57. 0	57. 8			12. 19	5. 20	11. 17	*0966			
9. 20	15. 0	3. 22	*0960	19. 55	*04010						12. 54	3. 30	11. 36	*0957			
9. 40	13. 30	3. 40	*0958	21. 33	*03718						13. 40	13. 30	11. 45	*0972			
12. 10	15. 0	4. 15	*0969	23. 59	*03714						14. 43	***	12. 3	*0966			
	***	4. 40	*0960									16. 22	13. 0	13. 40	*0948		
14. 45	14. 15		***								16. 56	11. 30	14. 10	*0969			
15. 10	18. 35	7. 36	*0968								17. 11	12. 30		***			
15. 14	17. 45	7. 47	*0962								17. 45	11. 5	15. 53	*0954			
15. 22	18. 40		***								17. 56	11. 30		***			
15. 40	18. 45	9. 26	*0955								18. 21	9. 0	17. 10	*0961			
16. 21	14. 5	9. 47	*0961								18. 44	10. 40		***			
16. 54	12. 40		***								19. 58	10. 50	21. 16	*0927			
17. 5	13. 15	10. 46	*0956								20. 13	12. 20		***			
17. 39	9. 45		***								20. 40	10. 0	22. 5	*0939			
17. 54	11. 40	13. 42	*0961								20. 58	11. 30	22. 27	*0930			
18. 10	9. 30	13. 56	*0967								21. 25	15. 0		***			
18. 41	9. 25		***								21. 54	16. 10	23. 40	*0944			
19. 12	12. 30	14. 45	*0960								22. 10	17. 40	23. 59	*0954			
19. 43	10. 45		***								22. 15	17. 20					
	***	15. 37	*0961								23. 41	21. 30					
21. 45	17. 55	16. 8	*0970								23. 55	24. 0					
	***	16. 40	*0963								23. 59	23. 30					
23. 59	21. 0	17. 2	*0967														
		17. 15	*0962								Aug. 24	21. 23. 25	Aug. 24	Aug. 24	Aug. 24	Aug. 24	Aug. 24
		17. 33	*0966								0. 0	21. 23. 25	0. 0	*0954	0. 0	*03684	1. 0
		21. 0	*0936								0. 12	22. 30	0. 26	*0943	5. 46	*03637	3. 0
			***								1. 43	22. 10		***	8. 11	*03460	9. 0
		22. 20	*0931								1. 52	21. 20	1. 35	*0958	12. 55	*03277	21. 0
			***								2. 13	22. 0	1. 48	*0953	19. 15	*03372	
		23. 59	*0943								3. 0	21. 0	2. 10	*0962	23. 27	*03329	
											3. 42	18. 20		***		(†)	
Aug. 23		Aug. 23		Aug. 23	Aug. 23	Aug. 23					5. 7	16. 25	2. 25	*0955			
0. 0	21. 21. 0	0. 0	*0943	0. 0	*03714	0. 0	59. 0	59. 7			5. 29	13. 20		***			
0. 27	20. 45	0. 18	*0946	7. 5	*03152	1. 0	60. 0	60. 4			5. 45	6. 40	3. 4	*0964			
0. 47	24. 10	0. 45	*0958	11. 40	*03120	3. 0	62. 7	62. 9			6. 12	11. 40	3. 30	*0956			
1. 10	22. 55	1. 0	*0945	12. 24	*03084	9. 0	64. 0	64. 0			6. 42	9. 0	4. 10	*0978			
1. 20	24. 45	1. 17	*0956	14. 12	*03120	21. 0	58. 2	58. 6			7. 13	11. 10		***			
1. 55	24. 30		***	20. 0	*03592						7. 39	10. 45	4. 40	*0977			
2. 28	21. 45	1. 45	*0956	23. 59	*03684						8. 13	12. 20		***			
2. 41	20. 5	2. 2	*0942								8. 25	10. 50	5. 16	*0984			
3. 9	20. 0	2. 20	*0946								8. 39	13. 40	5. 26	*0993			
4. 7	16. 50	2. 32	*0941								9. 1	12. 0	5. 34	*0989			
4. 42	17. 5		***								9. 12	13. 35	5. 46	*1009			
5. 13	15. 0	3. 22	*0959								9. 24	13. 0	6. 25	*0967			
5. 55	15. 0	3. 42	*0955								9. 31	11. 0		***			
6. 39	13. 30	4. 36	*0971								9. 44	10. 40	7. 18	*0971			

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.	
Aug. 24		Aug. 24																
10. 7	21. 16. 5	8. 7	·0965															
10. 30	10. 40	8. 16	·0960															
10. 44	12. 50	8. 20	·0965															
10. 51	12. 20	8. 45	·0953															
11. 7	12. 50	9. 12	·0955															
12. 8	10. 40	9. 36	·0950															
12. 17	13. 45	10. 3	·0967															
12. 27	13. 30	10. 17	·0959															
12. 53	16. 30	10. 33	·0967															
13. 52	12. 0	10. 47	·0956															
16. 37	10. 0	10. 56	·0962															
16. 54	11. 30		***															
17. 58	10. 20	11. 40	·0966															
18. 11	9. 0	12. 7	·0964															
18. 18	10. 20	12. 26	·0946															
18. 29	10. 0	12. 45	·0973															
18. 38	10. 20		***															
18. 52	8. 40	13. 20	·0959															
19. 12	11. 40		***															
19. 18	10. 35	13. 52	·0959															
19. 40	10. 40	14. 3	·0963															
19. 45	9. 40	14. 17	·0958															
20. 6	12. 20		***															
20. 20	12. 35	14. 46	·0954															
20. 29	13. 55	14. 52	·0959															
20. 45	13. 30	15. 0	·0955															
22. 6	19. 0		***															
23. 59	24. 30	16. 11	·0954															

		22. 5	·0924															

		23. 59	·0936															

Aug. 25		Aug. 25		Aug. 25		Aug. 25												
0. 0	21. 24. 30	0. 0	·0936		(†)	1. 0	64. 0	64. 7										
0. 52	24. 30		***	0. 33	·03530	3. 0	64. 7	65. 4										
1. 51	23. 55	0. 45	·0943		{ ·03522	9. 0	64. 5	65. 2										
2. 17	21. 20		***	2. 9	{ ·03868	21. 8	62. 0	62. 2										
2. 33	21. 20	1. 45	·0950	9. 43	·03785													
3. 37	18. 20	2. 4	·0949	15. 55	·03909													
4. 22	17. 0		***	17. 56	·03890													
4. 45	15. 15	2. 46	·0959	22. 30	·04055													
5. 20	15. 40		***	23. 59	·04023													
5. 39	14. 40	3. 22	·0956															
6. 54	15. 35		***															
8. 15	14. 15	4. 30	·0964															
8. 39	14. 45	4. 44	·0959															
9. 11	13. 20	5. 7	·0958															
9. 40	14. 30	5. 24	·0962															
11. 24	14. 0	5. 40	·0954															
12. 43	11. 45	5. 50	·0959															
13. 43	11. 20	6. 15	·0957															
14. 0	12. 30	6. 47	·0962															
14. 22	12. 35	7. 13	·0960															
14. 52	10. 0	7. 37	·0965															
15. 13	9. 30	8. 45	·0956															
15. 40	10. 50	9. 25	·0959															
15. 55	13. 40		***															
Aug. 25		Aug. 25																
10. 7	21. 16. 5	8. 7	·0965															
10. 30	10. 40	8. 16	·0960															
10. 44	12. 50	8. 20	·0965															
10. 51	12. 20	8. 45	·0953															
11. 7	12. 50	9. 12	·0955															
12. 8	10. 40	9. 36	·0950															
12. 17	13. 45	10. 3	·0967															
12. 27	13. 30	10. 17	·0959															
12. 53	16. 30	10. 33	·0967															
13. 52	12. 0	10. 47	·0956															
16. 37	10. 0	10. 56	·0962															
16. 54	11. 30		***															
17. 58	10. 20	11. 40	·0966															
18. 11	9. 0	12. 7	·0964															
18. 18	10. 20	12. 26	·0946															
18. 29	10. 0	12. 45	·0973															
18. 38	10. 20		***															
18. 52	8. 40	13. 20	·0959															
19. 12	11. 40		***															
19. 18	10. 35	13. 52	·0959															
19. 40	10. 40	14. 3	·0963															
19. 45	9. 40	14. 17	·0958															
20. 6	12. 20		***															
20. 20	12. 35	14. 46	·0954															
20. 29	13. 55	14. 52	·0959															
20. 45	13. 30	15. 0	·0955															
22. 6	19. 0		***															
23. 59	24. 30	16. 11	·0954															

		22. 5	·0924															

		23. 59	·0936															

Aug. 25		Aug. 25																
0. 0	21. 24. 30	0. 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.	
		Aug. 26																
		h m	h m	h m	h m	h m	o	o			h m	h m	h m	h m	h m	o	o	
		21. 37	0942								Aug. 28	10. 25	0967					
		21. 45	0934									12. 6	0960					
		22. 27	0941									15. 45	0969					
		22. 50	0938									21. 36	0945					
		23. 36	0948									23. 59	0948					
		23. 59	0942															
Aug. 27	(†)	Aug. 27	Aug. 27	Aug. 27	Aug. 27	Aug. 27	o	o			Aug. 29	Aug. 29	Aug. 29	Aug. 29	Aug. 29	o	o	
o. 30	21. 24. 20	o. 30	0945	4. 45	04184	1. 0	63. 0	63. 6			o. 0	21. 23. 10	o. 0	0948	o. 36	04035	1. 0	64. 0
o. 55	23. 40	o. 48	0942	8. 36	03550	3. 0	64. 7	65. 4			o. 45	22. 40	o. 57	0957	1. 30	03937	3. 0	66. 7
1. 10	25. 0	1. 20	0951	11. 39.	03624	9. 0	65. 4	65. 8			o. 58	23. 55	1. 37	0952	3. 12	03590	6. 0	66. 4
1. 52	26. 10	1. 47	0945	19. 0	04291	21. 0	59. 8	60. 3			2. 30	19. 45	2. 20	0957	5. 46	03650	9. 0	65. 0
2. 33	19. 30	2. 15	0946		04250						3. 52	14. 30	2. 20	0957		03958	12. 0	63. 8
2. 52	19. 50	2. 40	0942	21. 17	04187						5. 0	10. 40	5. 0	0960	9. 51	03994	18. 0	61. 8
4. 53	11. 35	3. 6	0948	23. 59	04078						7. 17	11. 10	4. 18	0936	13. 4	04093	21. 0	62. 7
6. 25	10. 40		***								9. 15	13. 40	4. 46	0944	16. 28	04358		
7. 13	11. 0	3. 40	0941								10. 15	13. 20	5. 45	0937	19. 54	04300		
9. 0	13. 45	3. 51	0943								11. 11	14. 15	6. 50	0942	22. 31	04193		
11. 15	12. 10	4. 20	0948								11. 41	13. 0	11. 45	10. 15	0951	04089		
12. 45	12. 50	4. 47	0942								12. 43	11. 45	11. 45	11. 45	0960	04061		
14. 50	9. 50	5. 46	0953								12. 56	14. 0	11. 40	0960	23. 59			
16. 45	10. 20		***								13. 27	8. 0	12. 46	0958				
18. 51	8. 20	6. 35	0951								14. 2	11. 20	13. 0	0984				
19. 52	9. 30		***								17. 21	6. 40	13. 26	0968				
22. 30	18. 45	7. 10	0959								17. 44	10. 0	16. 25	0972				
23. 13	22. 0	7. 45	0950								18. 40	7. 10	16. 45	0967				
23. 59	23. 50		***								19. 0	8. 30	16. 58	0970				
		13. 36	0959								19. 21	8. 20	17. 21	0959				
		13. 45	0956								19. 39	10. 0	18. 0	0966				
		14. 33	0965								21. 25	14. 0		***				
		16. 47	0957								22. 27	19. 0	21. 45	0931				
		18. 40	0956								23. 14	21. 30		***				
		21. 46	0928								23. 50	26. 10	22. 51	0930				
		22. 35	0923								23. 59	26. 0	23. 15	0936				
		23. 59	0930										23. 26	0935				
Aug. 28	21. 23. 50	o. 0	0930	Aug. 28	04078	Aug. 28	1. 0	63. 5	63. 2		Aug. 30	Aug. 30	Aug. 30	Aug. 30	Aug. 30	o. 0	o. 0	
1. 1	24. 40		***	6. 43	03600	3. 0	64. 0	64. 6			o. 0	21. 26. 0	o. 0	0942	o. 0	04061	1. 0	64. 0
3. 52	14. 30	1. 25	0947	9. 57	03571	9. 0	63. 9	64. 0			o. 59	27. 35	1. 10	0940	o. 54	04060	3. 0	65. 0
4. 0	19. 0	2. 27	0954	13. 0	03630	21. 0	62. 3	62. 7			1. 56	24. 20	1. 18	0934	1. 40	04012	9. 0	66. 5
4. 20	13. 20	3. 15	0944	17. 29.	04071						2. 5	25. 30	1. 36	0940	4. 11	03590	21. 0	59. 0
4. 55	10. 15		***	21. 25	04144						2. 21	25. 10	1. 40	0935	4. 55	03754		
6. 11	9. 30	4. 5	0962	23. 43	04033						2. 28	26. 40	1. 53	0943		03737		
7. 33	10. 40	4. 42	0966		(†)						3. 17	14. 10	2. 0	0941	5. 39	03700		
8. 7	12. 30	5. 15	0960								3. 36	14. 20	2. 15	0955		03928		
	***		***								3. 44	16. 30	2. 26	0952	8. 35	03820		
15. 21	13. 40	5. 46	0959								3. 48	15. 30	2. 33	0959	10. 30	03880		
18. 12	8. 0	6. 5	0954								3. 56	17. 0	2. 47	0945	11. 28	03774		
19. 14	8. 30		***								4. 10	15. 0	2. 50	0949	11. 47	03850		
19. 56	7. 45	7. 33	0958								4. 45	13. 0	3. 7	0926	16. 2	04262		
23. 59	23. 10	8. 37	0966								5. 9	13. 20	3. 16	0920	17. 46	04259		
		9. 16	0961								5. 20	12. 0		***	23. 59	04117		
		9. 57	0964															
		10. 8	0962															

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Aug. 30		Aug. 30							Aug. 31		Aug. 31						
5. 32	21. 12. 0	3. 40	.0925	h m		h m	o o		10. 0	21. 8. 0	6. 15	.0950	h m		h m	o o	
5. 45	13. 30	4. 6	.0957						10. 27	11. 30	6. 42	.0943					
5. 59	12. 0		***						10. 51	12. 20	7. 45	.0950					
7. 0	10. 0	4. 46	.0924						11. 0	10. 30	8. 15	.0949					
9. 47	14. 5	5. 15	.0942						11. 12	11. 10	8. 40	.0955					
9. 58	21. 14. 0		***						11. 29	9. 20		***					
10. 41	20. 52. 30	5. 39	.0938						11. 54	9. 20	9. 26	.0952					
10. 55	21. 6. 45	5. 50	.0954						12. 15	6. 30	9. 45	.0955					
11. 9	2. 40		***						12. 29	7. 30	10. 4	.0981					
11. 22	19. 30	6. 7	.0942						12. 43	7. 0	10. 46	.0965					
11. 44	6. 30	6. 13	.0946						13. 40	12. 30	10. 56	.0967					
12. 24	11. 15	6. 26	.0942						14. 43	13. 20	11. 13	.0960					
13. 21	11. 30	6. 37	.0948						19. 43	9. 25	11. 43	.0968					
13. 44	9. 15	6. 50	.0945						20. 32	11. 10	12. 6	.0955					
14. 18	10. 20		***						23. 45	24. 0	12. 17	.0953					
14. 42	13. 30	9. 40	.0954						23. 59	24. 30	12. 44	.0943					
14. 59	11. 0	9. 46	.0973								13. 58	.0954					
15. 51	8. 50	9. 50	.0966									***					
17. 15	9. 0	10. 0	.0971								16. 37	.0958					
18. 56	5. 40	10. 13	.0958									***					
20. 29	6. 5	10. 40	.1034								18. 46	.0952					
20. 39	8. 10	10. 45	.1018								21. 6	.0933					
20. 51	7. 30	10. 52	.1024								21. 34	.0935					
23. 40	24. 50	11. 5	.1011								21. 52	.0929					
23. 59	24. 30	11. 10	.1009								23. 59	.0933					
		11. 16	.1001						Sept. 1	21. 24. 30	0. 0	.0933	Sept. 1	0. 0	.04218	1. 0	62.6
		11. 20	.1007							0. 12	24. 50	.0942		0. 29	.04200	3. 0	64.0
		11. 33	.0928							0. 22	26. 30	.0938			.04244	9. 0	65.4
		11. 50	.0943							2. 27	21. 0	.0945			.03565	21. 30	58.2
		12. 10	.0928								***	***			.03660		58.6
		14. 5	.0947								4. 59	.0952			.03544		
		14. 10	.0943								6. 28	.0947			.03708		
		14. 46	.0958								6. 51	.0947			.03617		
		14. 50	.0952								7. 15	.0946			.03700		
		15. 7	.0958								7. 39	.0950			.03623		
		17. 46	.0955								9. 7	.0946			.03675		
			***								9. 52	.0946			.03740		
		20. 17	.0934								10. 0	.0945			.04312		
		20. 30	.0938								10. 51	.0952			.04295		
		20. 46	.0931								11. 40	.0935					
		21. 4	.0935								12. 8	.0942					
		21. 16	.0931								13. 13	.0942					
			***								13. 52	.0936					
		23. 20	.0951								14. 23	.0945					
		23. 26	.0946								15. 9	.0945					
		23. 37	.0954								15. 55	.0942					
		23. 59	.0950									***					
Aug. 31		Aug. 31		Aug. 31		Aug. 31			18. 0	6. 0	7. 6	.0945					
0. 0	21. 24. 30	0. 0	.0950	0. 0	.04117	1. 0	61.7	61.8	18. 29	8. 30	7. 20	.0942					
2. 7	22. 10	2. 0	.0945	1. 30	.04050	3. 0	64.0	65.0		***	8. 0	.0951					
2. 42	23. 0	2. 30	.0957	5. 41	.03471	9. 0	64.7	66.4	19. 55	5. 30		***					
5. 59	13. 0	2. 51	.0958	8. 10	.03500	21. 0	57.8	58.7	20. 52	6. 45	9. 0	.0949					
6. 58	11. 30	3. 40	.0942	11. 51	.03487				23. 15	22. 0	9. 20	.0956					
7. 43	13. 10	3. 50	.0945	21. 44	.04288				23. 40	25. 30	9. 39	.0951					
9. 37	13. 15	4. 17	.0936	23. 59	.04218				23. 59	25. 45	10. 10	.0960					

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Sept. 4 11. 26	21. 7. 30	Sept. 4 10. 40	.0933						Sept. 5 13. 55	21. 13. 40	Sept. 5 13. 26	.0944					
	***	10. 46	.0928						14. 27	8. 50	13. 48	.0957					
12. 15	11. 30	11. 2	.0937						14. 42	7. 50	14. 50	.0942					
12. 36	10. 20	11. 15	.0933						15. 30	11. 10	15. 56	.0944					
12. 43	11. 0	11. 53	.0948						15. 53	10. 30	***	***					
12. 59	15. 0	***	***						16. 10	11. 40	18. 40	.0952					
13. 26	12. 45	12. 37	.0944						16. 52	11. 15	22. 35	.0922					
13. 45	18. 0	13. 0	.0956						18. 15	7. 20	***	***					
14. 36	9. 30	***	***						20. 5	7. 5	23. 6	.0931					
14. 43	10. 20	13. 43	.0957						20. 45	8. 10	23. 15	.0928					
15. 6	8. 0	***	***						22. 10	12. 40	23. 59	.0930					
15. 28	7. 30	13. 50	.0947						23. 59	20. 50	***	***					
	***	***	***														
16. 55	11. 30	14. 20	.0942						Sept. 6 0. 0	21. 20. 50	Sept. 6 0. 0	.0930	Sept. 6 0. 0	Sept. 6 0. 0	Sept. 6 0. 0	62. 7	63. 2
17. 8	10. 15	15. 17	.0956						1. 5	24. 0	2. 53	***	2. 53	.02408	1. 0	63. 3	63. 0
18. 51	8. 10	***	***						2. 25	21. 20	1. 11	.0946	8. 46	.02470	3. 0	63. 5	64. 3
19. 12	10. 50	16. 26	.0960						4. 51	12. 10	***	***	9. 45	.02123	9. 0	64. 8	66. 2
19. 30	7. 45	***	***						7. 44	11. 40	1. 56	.0938	10. 14	.02000	21. 0	58. 3	59. 0
19. 51	9. 30	16. 42	.0952						8. 11	5. 15	2. 47	.0956	10. 39	.01987			
19. 58	8. 50	16. 50	.0959						8. 28	1. 10	3. 15	.0955	11. 0	.02070			
20. 28	12. 10	17. 0	.0955						9. 11	26. 30	3. 33	.0943	11. 11	.02012			
20. 51	10. 40	17. 17	.0958						9. 24	21. 21. 0	3. 57	.0937	11. 20	.02044			
22. 7	18. 0	***	***						9. 50	20. 59. 30	5. 0	.0951	11. 41	.01967			
23. 43	24. 25	18. 53	.0956						9. 59	21. 4. 0	5. 8	.0946	12. 2	.02018			
23. 59	24. 10	***	***						10. 11	20. 58. 20	7. 11	.0957	12. 27	.01983			
		21. 0	.0939						10. 30	21. 16. 0	7. 26	.0964	12. 52	.02033			
		21. 26	.0941						10. 45	12. 10	7. 45	.0961	13. 46	.01950			
		22. 25	.0930						10. 48	13. 25	8. 20	.1009	14. 40	.02074			
		22. 40	.0933						11. 11	0. 45	8. 34	.1002	14. 59	.01990			
		23. 59	.0937						11. 21	11. 10	***	***	15. 17	.01440			
									11. 39	5. 0	8. 40	.1007	15. 26	.01730			
									11. 57	18. 30	9. 3	.0908	15. 33	.01638			
Sept. 5 0. 0	21. 24. 10	Sept. 5 0. 0	.0937	Sept. 5 0. 0	.02300	Sept. 5 0. 0	59. 0	60. 0	12. 26	6. 30	9. 18	.0872	15. 33	.01742			
0. 44	25. 20	0. 37	.0946	1. 39	.02298	1. 0	60. 3	61. 4	12. 46	14. 10	9. 37	.0908	16. 21	.01366			
	***	0. 50	.0940	4. 52	.01852	3. 0	62. 7	63. 2	12. 54	13. 0	9. 50	.0896	17. 18	.02130			
1. 37	21. 0	1. 4	.0932	11. 14	.01886	6. 0	64. 7	65. 9	12. 59	15. 0	10. 14	.0920	***	***			
2. 27	22. 40	1. 13	.0939	{	.02200	9. 0	65. 0	65. 8	13. 13	9. 10	10. 25	.0906	21. 39	.02540			
2. 47	21. 10	1. 30	.0944	14. 9	.02137	12. 0	64. 3	65. 8	13. 29	24. 0	10. 37	.0891	21. 53	.02486			
3. 5	21. 20	1. 47	.0936	22. 36	.02428	18. 0	62. 5	63. 4	13. 41	40. 10	10. 46	.0919	23. 59	.02452			
4. 30	13. 40	2. 10	.0942	23. 59	.02408	21. 0	62. 3	63. 2	13. 46	20. 30	10. 53	.0910					
5. 0	13. 50	***	***						14. 0	49. 0	11. 12	.0925					
6. 10	11. 45	3. 17	.0939						14. 43	6. 45	11. 34	.0903					
7. 20	12. 20	3. 26	.0944						15. 7	52. 45	***	***					
8. 0	10. 0	3. 47	.0925						15. 15	35. 10	12. 3	.0938					
8. 17	10. 30	***	***						15. 18	43. 20	12. 15	.0923					
8. 51	9. 45	5. 15	.0943						15. 21	41. 0	***	***					
10. 10	11. 40	5. 33	.0942						15. 24	47. 30	12. 48	.0934					
10. 26	13. 0	5. 56	.0949						15. 40	19. 0	***	***					
11. 46	12. 30	6. 47	.0946						15. 46	21. 29. 30	13. 7	.0927					
11. 59	14. 10	7. 6	.0952						16. 15	20. 59. 30	13. 18	.0965					
12. 30	10. 40	***	***						***	***	13. 32	.0950					
12. 46	11. 30	10. 40	.0947						16. 51	21. 6. 10	***	***					
12. 55	10. 50	***	***						16. 57	15. 55	13. 46	.0941					
13. 7	11. 45	11. 41	.0952						17. 11	1. 10	13. 56	.0904					
13. 13	11. 0	11. 53	.0961						(†)	14. 6	.0935	***					
13. 21	12. 20	12. 30	.0950						20. 42	16. 10	14. 18	.0796					
13. 35	11. 0	12. 57	.0965							***	14. 30	.0847					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Sept. 6 21. 15	21. 21. 20	Sept. 6 14. 35	0816						Sept. 7 13. 56	21. 16. 30	Sept. 7 13. 53	0908					
	***	14. 38	0840						14. 11	18. 0	14. 13	0919					
21. 39	16. 50	14. 43	0826						14. 27	13. 20	14. 30	0907					
	***	14. 50	0862						14. 57	14. 45	14. 46	0919					
23. 59	24. 0	21. 0	(†) 0834*						16. 55	9. 0	15. 6	0913					
										***	15. 17	0918					
									17. 43	10. 40	16. 16	0909					
Sept. 7 0. 0	21. 24. 0	Sept. 7 1. 0	(†) 0904*	Sept. 7 0. 0	02452	Sept. 7 1. 0	61. 3	62. 0		***	17. 43	0925					
	***	3. 0	0923*	1. 26	02516	3. 0	64. 7	65. 4	18. 21	8. 30	18. 21	0925					
1. 37	30. 0	3. 7	0926	2. 12	02337	9. 0	66. 7	67. 2	19. 13	***	17. 43	0933					
	***			2. 29	02342	21. 0	59. 3	60. 2	19. 16	9. 30	19. 16	0933					
2. 26	25. 30	3. 50	0945	2. 39	02291				19. 40	4. 45	18. 17	0930					
2. 40	36. 45	4. 20	0902	3. 11	02233					***	18. 26	0935					
2. 44	31. 30	4. 26	0906	3. 24	02337				20. 9	10. 30	18. 33	0927					
2. 48	36. 0	3. 40	0906	3. 40	02312				20. 15	***	18. 40	0933					
2. 52	33. 30	4. 49	0889	4. 36	02022				20. 20	9. 30	19. 30	0924					
2. 56	35. 50	5. 10	0904	5. 13	01988				22. 10	12. 10	19. 30	0924					
3. 12	30. 30	5. 18	0894	5. 40	02104				20. 20	10. 30	19. 47	0928					
3. 25	35. 50	6. 12	0968	6. 12	01950				22. 10	***	21. 26	0928					
3. 38	22. 0	6. 25	0951	6. 25	01980				22. 27	14. 0	21. 26	0914					
3. 41	25. 50	6. 45	0959	6. 45	01942				22. 30	16. 25	21. 26	0914					
3. 43	27. 30	6. 53	0883	6. 53	02045				22. 30	13. 0	21. 37	0922					
3. 45	28. 15	7. 30	0927	7. 30	01980				22. 40	15. 30	21. 37	0922					
4. 0	16. 30	10. 16	0900	10. 16	01880				22. 55	15. 20	21. 51	0915					
4. 14	19. 0	10. 39	0909	10. 39	01902				23. 59	18. 0	22. 33	0915					
4. 29	15. 0	11. 11	0938	11. 11	01790						22. 47	0915					
5. 19	21. 17. 25	11. 43	0909	11. 43	01803						22. 49	0928					
5. 45	20. 53. 30	12. 0	0913	12. 0	01864						23. 59	0917					
5. 52	21. 6. 30	13. 37	0910	13. 37	01952							0925					
5. 55	5. 0	13. 54	0910	13. 54	01920												
6. 12	16. 15	15. 44	0918	15. 44	02136												
6. 23	5. 30	19. 14	0918	19. 14	02542												
6. 42	12. 40	23. 59	0939	23. 59	02430												
6. 55	9. 20		0937						Sept. 8 0. 0	21. 18. 0	Sept. 8 0. 0	0925	Sept. 8 0. 0	02430	Sept. 8 1. 0	62. 4	62. 3
7. 11	9. 10	9. 26	0937						1. 12	***	1. 6	0927	0. 29	02414	3. 0	64. 7	65. 4
7. 15	12. 15	9. 40	0954						1. 26	1. 6	1. 17	0916	1. 0	02450	9. 0	66. 0	67. 0
7. 29	8. 30	9. 49	0918						2. 10	20. 50	1. 46	0932	4. 26	02200	22. 30	58. 0	58. 4
8. 7	15. 50	10. 25	0918						2. 14	16. 50	1. 50	0921	6. 11	01918			
8. 18	13. 30	10. 42	1024						2. 44	17. 30	2. 2	0928	6. 24	01935			
	***	10. 46	1010						2. 54	16. 40	2. 4	0921	7. 11	01818			
9. 29	13. 10	10. 48	1025						3. 9	18. 40	2. 30	0934	13. 21	01825			
9. 49	9. 20	10. 51	1013						3. 17	17. 10	2. 46	0919	15. 43	01946			
10. 0	15. 0	11. 0	1024						3. 29	18. 40	3. 3	0941	22. 11	02492			
10. 15	13. 50	11. 15	0963						3. 41	15. 30	3. 10	0930	23. 59	02462			
10. 27	0. 40	11. 27	0937						4. 21	14. 30	3. 33	0953					
10. 30	12. 0	11. 42	0896						4. 51	15. 20	4. 0	0915					
10. 37	19. 0	12. 6	0940						4. 57	3. 20	4. 0	0915					
	***	12. 30	0919						5. 14	11. 30	4. 20	0958					
11. 0	26. 0	12. 39	0921						5. 30	9. 30	4. 33	0950					
11. 7	18. 30	13. 18	0905						5. 44	12. 30	4. 40	0964					
	***	13. 41	0912						6. 0	10. 30	4. 47	0950					
11. 25	21. 21. 20	13. 46	0930						6. 30	12. 20	4. 52	0956					
11. 48	20. 57. 20								7. 0	5. 10	5. 10	0944					
12. 10	21. 5. 0								7. 39	21. 12. 30	5. 26	0948					
12. 40	3. 0								7. 45	20. 52. 0	5. 40	0948					
13. 14	10. 40								8. 26	21. 3. 30	5. 20	0935					
13. 43	22. 0								16. 17	11. 55	6. 7	0904					
										10. 15	6. 30	0958					
										13. 50	6. 46	0945					
										10. 50	6. 56	0947					

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.		
Sept. 8 17. 26 17. 42 17. 51 18. 31 20. 14 21. 43 21. 51 23. 40 23. 45 23. 54 23. 59	21. 12. 0 14. 10 13. 30 19. 10 12. 0 15. 40 13. 55 17. 20 16. 5 18. 30 17. 45	Sept. 8 7. 4 7. 34 8. 4 8. 33 9. 7 9. 20 9. 40 14. 53 15. 20 16. 35 16. 45 17. 33 17. 45 18. 17 18. 40 19. 10 20. 20 20. 47 21. 30 21. 46 22. 45 23. 3 23. 59	*0938 *** *0928 *** *0932 *** *0928 *0933 *0925 *0930 *** *0938 *** *0944 *** *0938 *0943 *** *0935 *0919 *** *0905 *** *0915 *0933 *** *0927 *** *0914 *0919 *0912 *0921 *0916 *0919	h m		h m													
Sept. 9 0. 0 0. 7 0. 18 0. 24 0. 45 0. 57 1. 6 1. 15 1. 37 1. 56 2. 16 2. 45 4. 12 15. 57 16. 10 17. 10 17. 48 20. 7 22. 18	21. 17. 45 17. 15 18. 30 17. 50 20. 50 19. 5 20. 0 18. 40 18. 25 19. 0 18. 40 15. 50 13. 20 *** 11. 20 12. 30 10. 40 11. 30 8. 0 *** 17. 30 ***	Sept. 9 0. 0 0. 26 0. 45 1. 4 1. 47 2. 35 2. 46 4. 2 6. 50 7. 6 8. 0 8. 16 8. 38 8. 46 18. 53 20. 37	*0919 *0921 *0933 *0925 *0925 *** *0934 *0930 *** *0941 *** *0946 *0937 *0947 *0941 *0946 *0943 *** *0948 *** *0934 ***	Sept. 9 0. 0 2. 10 9. 54 16. 42 19. 41 22. 33 23. 59	*02462 *02455 *02143 *02474 *02312 *02077 *02012	Sept. 9 7. 0 21. 0	61 062 0 53 354 0												
Sept. 9 23. 30 Sept. 10 1. 0 3. 0 3. 16 3. 40 4. 11 4. 30 5. 7 6. 43 7. 27 7. 45 8. 7 8. 28 9. 27 10. 12 10. 25 10. 39 10. 52 11. 42 11. 58 12. 14 12. 30 12. 51 13. 13 13. 30 13. 49 14. 11 14. 22 15. 13 15. 45 15. 59 16. 39 17. 7 17. 52 18. 21 18. 45 18. 55 19. 13 19. 42 20. 11 20. 16 21. 51 21. 59 22. 50 23. 6	21. 18. 15 (†) 21. 20. 56* 18. 19* 16. 20 13. 40 13. 0 14. 10 12. 45 12. 45 9. 10 8. 50 10. 0 7. 30 11. 20 10. 10 11. 10 10. 40 12. 10 9. 15 10. 35 8. 50 8. 45 12. 30 11. 30 16. 20 13. 50 22. 10 22. 0 21. 5. 10 20. 58. 30 20. 58. 25 21. 6. 40 8. 0 6. 30 8. 0 6. 40 8. 30 8. 30 6. 50 9. 5 8. 30 18. 15 16. 10 22. 0 20. 20 (†)	Sept. 9 22. 20 23. 59 Sept. 10 0. 0 1. 2 1. 33 2. 17 3. 10 3. 32 4. 7 4. 33 4. 42 4. 56 5. 17 5. 46 6. 36 6. 54 7. 6 7. 24 8. 46 9. 5 9. 17 9. 45 10. 33 10. 47 11. 20 11. 47 12. 18 13. 22 13. 45 14. 36 15. 3 16. 4 16. 26 17. 0 18. 37 18. 46 19. 21 19. 47 20. 16 23. 2 23. 59 Sept. 11 0. 0 0. 28 1. 13 3. 49 6. 19	*0930 *0935 *0935 *0936 *** *0947 *0941 *** *0955 *0946 *0943 *0950 *0947 *0949 *0943 *0940 *0944 *0950 *0957 *0944 *0950 *0951 *0966 *0955 *0968 *0961 *0962 *0955 *0963 *0939 *0942 *** *0953 *0952 *0958 *** *0938 *0946 *0943 *0948 *0940 *0938 *0943 *0943 *** *0946 *0949 *** *0943 *** *01810 *01764 *01422 *01163	h m		h m													
Sept. 10 1. 0 3. 0 3. 16 3. 40 4. 11 4. 30 5. 7 6. 43 7. 27 7. 45 8. 7 8. 28 9. 27 10. 12 10. 25 10. 39 10. 52 11. 42 11. 58 12. 14 12. 30 12. 51 13. 13 13. 30 13. 49 14. 11 14. 22 15. 13 15. 45 15. 59 16. 39 17. 7 17. 52 18. 21 18. 45 18. 55 19. 13 19. 42 20. 11 20. 16 21. 51 21. 59 22. 50 23. 6	(†) 0. 0 21. 20. 56* 18. 19* 16. 20 13. 40 13. 0 14. 10 12. 45 12. 45 9. 10 8. 50 10. 0 7. 30 11. 20 10. 10 11. 10 10. 40 12. 10 9. 15 10. 35 8. 50 8. 45 12. 30 11. 30 16. 20 13. 50 22. 10 22. 0 21. 5. 10 20. 58. 30 20. 58. 25 21. 6. 40 8. 0 6. 30 8. 0 6. 40 8. 30 8. 30 6. 50 9. 5 8. 30 18. 15 16. 10 22. 0 20. 20 (†)	Sept. 10 0. 0 0. 41 2. 15 6. 41 11. 42 13. 14 13. 52 14. 14 14. 45 16. 20 21. 45 23. 2 Sept. 11 0. 0 0. 28 1. 13 3. 49 6. 19	*0935 *0936 *** *0947 *0941 *** *0955 *0946 *0943 *0950 *0947 *0949 *0943 *0940 *0944 *0950 *0957 *0944 *0950 *0951 *0966 *0955 *0968 *0961 *0962 *0955 *0963 *0939 *0942 *** *0953 *0952 *0958 *** *0938 *0946 *0943 *0948 *0940 *0938 *0943 *0943 *** *0946 *0949 *** *0943 *** *01810 *01764 *01422 *01163	h m		h m													
Sept. 10 1. 0 3. 0 3. 16 3. 40 4. 11 4. 30 5. 7 6. 43 7. 27 7. 45 8. 7 8. 28 9. 27 10. 12 10. 25 10. 39 10. 52 11. 42 11. 58 12. 14 12. 30 12. 51 13. 13 13. 30 13. 49 14. 11 14. 22 15. 13 15. 45 15. 59 16. 39 17. 7 17. 52 18. 21 18. 45 18. 55 19. 13 19. 42 20. 11 20. 16 21. 51 21. 59 22. 50 23. 6	(†) 0. 0 21. 20. 56* 18. 19* 16. 20 13. 40 13. 0 14. 10 12. 45 12. 45 9. 10 8. 50 10. 0 7. 30 11. 20 10. 10 11. 10 10. 40 12. 10 9. 15 10. 35 8. 50 8. 45 12. 30 11. 30 16. 20 13. 50 22. 10 22. 0 21. 5. 10 20. 58. 30 20. 58. 25 21. 6. 40 8. 0 6. 30 8. 0 6. 40 8. 30 8. 30 6. 50 9. 5 8. 30 18. 15 16. 10 22. 0 20. 20 (†)	Sept. 10 1. 0 3. 0 9. 0 21. 0 Sept. 11 1. 0 3. 0 9. 0 21. 0	56 857 2 58 458 8 60 060 6 53 053 6																

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Sept. 11 h m 1. 46 3. 5 3. 30 5. 7 5. 58 6. 13 12. 42 13. 13 13. 31 13. 55 20. 14 23. 0 23. 59	21. 16. 15 15. 30 13. 55 11. 30 13. 15 12. 30 11. 30 13. 0 11. 0 11. 55 10. 15 16. 50 17. 0	Sept. 11 h m 2. 32 3. 7 3. 32 4. 47 6. 45 7. 45 8. 2 8. 17 8. 46 9. 15 9. 33 12. 5 12. 30 12. 48 13. 22 17. 0 20. 46 22. 15 23. 59	.0944 *** .0950 .0939 *** .0937 *** .0946 *** .0943 .0952 *** .0943 .0950 .0947 .0952 *** .0950 .0946 .0961 .0950 .0956 .0944 *** .0942 .0954	Sept. 11 h m 7. 10 12. 54 17. 34 22. 47 23. 59	{ .01200 .01296 .01422 .01710 .02172 .02087 .02108	h m o o	o o	Sept. 13 h m 7. 14 9. 20 15. 10 17. 13 17. 42 18. 27 20. 24 23. 59	21. 9. 10 11. 15 11. 30 9. 30 7. 50 8. 30 7. 20 16. 50	Sept. 13 h m 5. 13 8. 45 9. 6 9. 35 10. 2 13. 56 18. 52 22. 59 23. 59	.0935 .0941 .0946 .0944 .0949 *** .0959 .0956 .0924 .0925	Sept. 13 h m 5. 19 5. 57 9. 0 13. 42 20. 41 23. 59	.01478 { .01610 .01682 .01703 .01840 .01910 .02385 .02293	Sept. 13 h m 21. 0 59. 8 60. 3	o o 59. 8 60. 3	Sept. 13 h m 21. 0 59. 8 60. 3	o o 59. 8 60. 3
Sept. 12 h m 0. 0 1. 14 2. 59 3. 32 5. 28 10. 13 12. 29 13. 0 13. 24 16. 47 17. 11 17. 28 18. 32 18. 56 19. 43 21. 3 21. 39 22. 43	21. 17. 0 16. 20 11. 10 10. 0 11. 30 11. 10 11. 45 11. 5 8. 50 12. 10 11. 0 11. 15 9. 30 10. 0 8. 30 11. 50 16. 25 19. 30 (†)	Sept. 12 h m 0. 0 1. 50 2. 51 3. 4 3. 26 4. 15 4. 32 5. 16 6. 52 11. 37 12. 54 13. 53 18. 46 22. 45 23. 59	.0954 .0955 .0948 .0952 *** .0943 *** .0939 *** .0945 *** .0935 *** .0949 *** .0955 *** .0952 .0957 *** .0957 *** .0933 *** .0935	Sept. 12 h m 0. 0 2. 0 11. 12 21. 37 23. 49 23. 59	.02108 .02033 .01335 .01952 { .01960 .01763	h m o o	54. 0 55. 0 55. 4 56. 0 58. 0 58. 0 60. 5 62. 0 60. 0 60. 7 54. 5 56. 5 54. 0 55. 0	Sept. 12 h m 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 18. 0 21. 0	21. 16. 50 18. 0 11. 30 10. 50 7. 50 12. 40 11. 0 7. 45 8. 50 18. 45 23. 0	Sept. 14 h m 0. 0 2. 6 2. 57 4. 6 5. 20 5. 51 6. 15 7. 5 10. 26 10. 47 11. 6 11. 25 15. 40 17. 8 22. 24 23. 59	.0925 .0936 .0936 .0930 .0941 .0934 .0938 .0935 *** .0952 .0952 .0955 .0950 *** .0959 .0957 .0929 .0941	Sept. 14 h m 0. 0 2. 21 4. 40 10. 9 13. 57 20. 46 23. 59	.02293 .02095 { .01708 .02077 .02160 .02380 .02318 .02237 .02242	Sept. 14 h m 1. 0 3. 0 9. 0 21. 0	62. 7 63. 8 65. 0 66. 0 64. 5 64. 5 58. 3 58. 8	o o 62. 7 63. 8 65. 0 66. 0 64. 5 64. 5 58. 3 58. 8	
Sept. 12 h m 0. 0 1. 14 2. 59 3. 32 5. 28 10. 13 12. 29 13. 0 13. 24 16. 47 17. 11 17. 28 18. 32 18. 56 19. 43 21. 3 21. 39 22. 43	21. 17. 0 16. 20 11. 10 10. 0 11. 30 11. 10 11. 45 11. 5 8. 50 12. 10 11. 0 11. 15 9. 30 10. 0 8. 30 11. 50 16. 25 19. 30 (†)	Sept. 12 h m 0. 0 1. 50 2. 51 3. 4 3. 26 4. 15 4. 32 5. 16 6. 52 11. 37 12. 54 13. 53 18. 46 22. 45 23. 59	.0954 .0955 .0948 .0952 *** .0943 *** .0939 *** .0945 *** .0935 *** .0949 *** .0955 *** .0952 .0957 *** .0957 *** .0933 *** .0935	Sept. 12 h m 0. 0 2. 0 11. 12 21. 37 23. 49 23. 59	.02108 .02033 .01335 .01952 { .01960 .01763	h m o o	54. 0 55. 0 55. 4 56. 0 58. 0 58. 0 60. 5 62. 0 60. 0 60. 7 54. 5 56. 5 54. 0 55. 0	Sept. 12 h m 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 18. 0 21. 0	21. 23. 0 22. 0 *** 1. 33 2. 2 2. 10 2. 40 3. 7 3. 30 12. 20 12. 20 13. 15 11. 30 9. 40 9. 50 1. 30 12. 30 5. 40 7. 30 6. 45 8. 20 2. 30 3. 0 3. 0 6. 30 6. 20 1. 10 0. 0	Sept. 15 h m 0. 0 0. 46 1. 33 2. 2 2. 10 2. 40 3. 7 3. 30 12. 20 12. 20 13. 15 11. 30 9. 40 9. 50 1. 30 12. 30 5. 40 7. 30 6. 45 8. 20 2. 30 3. 0 3. 0 6. 30 6. 20 1. 10 0. 0	.0941 .0946 .0954 .0951 .0954 .0946 .0949 .0946 *** .0954 .0949 *** .0950 *** .0935 .0951 *** .0938 *** .0950 .0946 .0951 .0952 .0988 .0987 1.008 .0990	Sept. 15 h m 0. 0 1. 15 6. 10 9. 25 11. 0 11. 40 12. 24 12. 52 14. 9 15. 52 17. 3 19. 55 23. 59	.02242 { .02220 .02158 .01880 .01750 .01702 .01696 .01737 .01735 .01690 .01752 .01625 .01789 .01909 .02284	Sept. 15 h m 1. 0 3. 0 9. 0 21. 50	61. 0 61. 2 62. 3 62. 2 63. 0 63. 3 58. 0 58. 8	o o 61. 0 61. 2 62. 3 62. 2 63. 0 63. 3 58. 0 58. 8	
Sept. 13 h m 0. 30 4. 53 6. 48	21. 17. 30 8. 30 10. 25	Sept. 13 h m 0. 0 1. 15 2. 57 3. 52	.0935 .0942 .0936 .0938	Sept. 13 h m 0. 0 1. 26 3. 11	.01763 .01620 { .01370 .01746	h m o o	57. 2 57. 8 59. 6 59. 3 62. 7 63. 9 63. 2 63. 0	Sept. 13 h m 0. 0 1. 0 3. 0 9. 0	15. 15 1. 10 0. 0	Sept. 13 h m 9. 6 9. 10 9. 27	.0987 1.008 .0990	Sept. 13 h m 9. 6 9. 10 9. 27	.0987 1.008 .0990	Sept. 13 h m 9. 6 9. 10 9. 27	o o 9. 6 9. 10 9. 27		

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.		
Sept. 19 0. 0	21. 19. 15	Sept. 19 0. 0	*0935 ***	Sept. 19 0. 43	(†)	Sept. 19 0. 0	57. 6	58. 2	Sept. 20 0. 42	21. 21. 30	Sept. 20 2. 36	*0945	Sept. 20 4. 7	*00788	Sept. 20 3. 0	62. 3	63. 2		
1. 20	20. 30 ***	0. 46	*0949 ***	3. 42	*00651	1. 0	58. 2	58. 6	1. 18	16. 30	2. 45	*0935 ***	7. 52	*01088	9. 0	63. 3	64. 0		
3. 24	19. 0			5. 50	*00486	6. 0	61. 5	61. 8	1. 29	17. 40			10. 22	*01090	21. 0	61. 3	62. 0		
3. 56	16. 20	2. 10	*0945	9. 9	*00620	9. 0	61. 5	63. 0	1. 43	17. 20	3. 7	*0934	15. 28	*01270					
7. 29	12. 40	2. 52	*0951	13. 13	*00580	12. 0	60. 9	62. 0	2. 25	20. 50	3. 15	*0927	19. 26	*01309					
8. 53	21. 13. 30	3. 26	*0944	16. 50	*00730	18. 0	57. 5	57. 7	2. 37	19. 50	3. 19	*0934	23. 59	*01252					
9. 30	20. 55. 30	4. 15	*0946 ***	21. 15	*01010	21. 0	57. 8	57. 9	2. 54	21. 20	3. 43	*0920							
9. 52	21. 1. 0			22. 55	*00990				3. 14	16. 30	4. 35	*0948							
10. 15	20. 58. 20	5. 40	*0956	23. 59	*01028				3. 21	18. 20	5. 7	*0933							
11. 0	21. 7. 25	6. 5	*0950 ***						3. 47	14. 0	5. 38	*0946							
11. 14	2. 30								4. 38	15. 10	5. 50	*0940 (†)							
11. 32	2. 20	7. 15	*0960						5. 29	13. 0	6. 46	*0941							
11. 51	10. 0	7. 33	*0956						6. 3	21. 8. 30	6. 56	*0955 ***							
11. 56	9. 0	7. 48	*0960						6. 14	20. 58. 20									
12. 10	9. 30	8. 0	*0958						6. 25	21. 9. 0	7. 20	*0950							
12. 42	6. 20	8. 10	*0961						6. 30	7. 40	7. 33	*0945							
12. 55	8. 15	8. 17	*0957						6. 39	9. 25	8. 5	*0942 ***							
13. 54	0. 50	8. 31	*0960						6. 52	2. 40									
14. 9	2. 15	8. 45	*0955						6. 58	6. 30	9. 8	*0949							
14. 15	1. 20	9. 16	*0974 ***						7. 40	11. 15	9. 25	*0962							
14. 43	6. 0								8. 55	11. 20	10. 3	*0948							
14. 56	6. 10	10. 20	*0940						9. 12	9. 30	10. 35	*0959 ***							
15. 12	3. 15	10. 33	*0942						9. 42	14. 0 ***	11. 26	*0951							
15. 20	3. 30	10. 46	*0931 ***						11. 0	7. 15	12. 30	*0953							
15. 57	11. 0								11. 52	12. 55	13. 26	*0959 ***							
16. 30	14. 30	11. 45	*0947						12. 30	11. 0									
17. 26	9. 40	12. 15	*0938						13. 12	13. 10	18. 7	*0953 ***							
17. 40	12. 30	12. 50	*0961						13. 57	10. 50									
17. 58	10. 45	13. 17	*0952						14. 19	11. 10	22. 3	*0920 ***							
18. 15	14. 20	13. 20	*0955						15. 51	7. 50									
18. 40	15. 0	13. 33	*0951						17. 14	9. 45	22. 42	*0925 ***							
18. 45	14. 0	13. 43	*0959						19. 50	7. 0									
18. 51	14. 40	14. 5	*0943 ***						20. 39	8. 30	23. 10	*0921							
18. 57	13. 40								22. 15	16. 40	23. 36	*0930 ***							
19. 15	13. 20	15. 12	*0951						23. 12	17. 15									
19. 22	14. 0	15. 45	*0944						23. 28	18. 40	23. 59	*0930							
20. 12	9. 30	16. 38	*0964 ***						23. 54	17. 15									
20. 27	11. 0								23. 59	17. 30									
20. 30	10. 0	18. 6	*0938																
20. 41	11. 15	18. 25	*0943						Sept. 21	21. 17. 30	Sept. 21	*0930	Sept. 21	0. 0	*01252	Sept. 21	1. 0	62. 5	63. 0
20. 55	8. 30	18. 40	*0939						0. 49	18. 30	1. 13	*0943	1. 25	*01275	3. 0	64. 0	64. 4		
21. 39	10. 40	19. 11	*0952 ***						1. 0	20. 0	2. 7	*0932	2. 51	*01148	9. 0	64. 0	64. 8		
21. 45	10. 0								2. 10	19. 10	3. 5	*0946 ***	4. 1	{ *01095	21. 0	60. 8	61. 3		
21. 57	12. 45	21. 17	*0933						2. 30	16. 45				{ *01163					
22. 13	12. 20	21. 40	*0942 ***						4. 52	13. 40	4. 15	*0940	5. 30	{ *01228					
22. 53	16. 0								5. 10	11. 20	4. 47	*0943	11. 49	{ *01467					
23. 6	15. 30	22. 46	*0922 ***						5. 39	11. 20	5. 6	*0952	19. 20	*01488					
23. 40	21. 40								5. 45	9. 45	5. 30	*0952	23. 59	*01929					
23. 59	22. 15	23. 5	*0921 ***						6. 12	11. 40	5. 51	*0957		*02013					
		23. 36	*0938 ***						7. 42	11. 0	6. 17	*0953							
		23. 59	*0931						8. 10	11. 45	9. 20	*0949							
									14. 4	12. 10	14. 0	*0961							
Sept. 20 0. 0	21. 22. 15	Sept. 20 0. 0	*0931	Sept. 20 0. 0	*01028	Sept. 20 0. 0	59. 0	59. 6	14. 30	14. 40	14. 37	*0960							
0. 14	20. 30	0. 15	*0920	1. 40	*00962	1. 0	59. 8	60. 2	15. 20	10. 40	14. 40	*0965							
									18. 26	9. 0	15. 37	*0961							

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Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Sept. 21 18. 46 19. 10 19. 24 19. 49 20. 37 21. 21 21. 47 21. 57 23. 10 23. 59	21. 7. 40 8. 0 7. 0 7. 50 7. 0 8. 40 11. 30 11. 20 16. 15 18. 20	Sept. 21 16. 15 19. 37 22. 0 22. 40 23. 59	.0963 .0956 *** .0936 .0933 .0941														
Sept. 22 0. 0 0. 11 0. 58 1. 14 1. 50 2. 46 3. 5 4. 7 4. 56 5. 37 7. 54 8. 12 8. 48 9. 11 9. 54 10. 26 10. 48 11. 13 13. 21 13. 29 13. 43 13. 55 15. 22 17. 7 19. 19 20. 46 23. 59	21. 18. 20 18. 15 20. 10 22. 10 21. 50 17. 20 17. 50 15. 15 11. 0 11. 15 9. 50 9. 55 11. 50 11. 0 11. 15 9. 50 9. 55 12. 40 11. 30 12. 40 12. 15 13. 10 12. 30 13. 40 11. 40 12. 0 10. 0 11. 30 17. 10	Sept. 22 0. 0 0. 33 0. 46 1. 12 1. 43 2. 0 2. 18 2. 37 3. 6 4. 47 5. 46 6. 17 7. 15 8. 40 9. 11 17. 45 21. 17 23. 59	.0941 .0941 .0939 .0946 .0947 .0942 .0945 .0941 .0953 *** .0953 .0960 .0959 .0963 *** .0959 .0963 *** .0967 .0948 .0959	Sept. 22 0. 0 1. 48 9. 43 20. 29 23. 59	.02013 .02030 .01660 .01508 .01900 .01603	Sept. 22 1. 0 3. 0 9. 0 22. 35	62. 2 62. 5 63. 0 63. 0 61. 3 63. 0 56. 0 58. 0										
Sept. 23 0. 0 1. 4 1. 27 2. 10 2. 36 3. 1 4. 52 12. 13 12. 29 12. 45 13. 40 13. 59 14. 37 15. 8 16. 54 17. 19 19. 52 19. 58 20. 17	21. 17. 10 18. 40 20. 10 18. 40 18. 45 16. 50 13. 30 12. 55 12. 10 13. 45 12. 0 13. 15 11. 55 12. 50 11. 20 12. 5 7. 15 8. 10 8. 0	Sept. 23 0. 0 0. 35 0. 56 1. 30 2. 3 2. 30 2. 56 14. 17 19. 8 21. 47 23. 59	.0959 .0959 .0958 .0961 .0957 .0960 .0957 *** .0973 *** .0971 *** .0955 .0961	Sept. 23 0. 0 3. 0 9. 52 16. 29 19. 0 23. 40 23. 59	.01603 .01628 .01507 .01650 .01563 .01238 .01064 .01072	Sept. 23 6. 11 21. 0	58. 0 58. 8 53. 0 54. 7										
Sept. 23 21. 28 23. 59	21. 10. 0 20. 5																
Sept. 24 0. 0 1. 11 1. 43 2. 35 3. 12 4. 30 8. 0 8. 31 9. 13 10. 41 13. 43 15. 0 16. 45 18. 27 19. 43 20. 47 21. 16 23. 59	21. 20. 5 22. 0 20. 30 19. 30 16. 30 13. 40 12. 40 7. 20 11. 50 12. 50 11. 10 6. 30 10. 15 8. 45 5. 40 9. 10 8. 30 16. 30	Sept. 24 0. 0 1. 30 5. 19 12. 22 23. 21	.0961 .0969 .0964 .0967 *** .0966 .0956 .0955 .0969 *** .0968 .0971 .0962 *** .0973 .0966 *** .0970 *** .0954 *** .0955	Sept. 24 0. 0 1. 30 5. 19 12. 22 23. 21	.01072 .01095 .00810 .00622 .01022 (†)	Sept. 24 1. 0 3. 0 9. 0 21. 0	54. 8 55. 6 57. 3 57. 2 58. 7 59. 0 52. 3 54. 0										
Sept. 25 0. 0 1. 5 4. 12 5. 24 5. 56 6. 31 6. 49 7. 13 7. 50 8. 13 8. 31 9. 11 10. 2 10. 13 10. 24 10. 43 10. 58 11. 21 11. 51 11. 57 12. 13 12. 17 13. 2 13. 30 14. 11 14. 39 14. 43 15. 13 15. 50 16. 9 16. 13 16. 22	21. 16. 30 17. 30 12. 10 11. 10 14. 10 13. 0 13. 30 9. 50 13. 50 13. 45 14. 50 12. 50 13. 10 11. 15 12. 10 11. 30 13. 30 12. 40 6. 0 8. 0 6. 30 21. 7. 30 20. 59. 30 21. 6. 45 20. 53. 0 57. 40 20. 56. 45 21. 8. 10 1. 30 5. 50 5. 10 6. 55	Sept. 25 0. 0 3. 30 4. 0 4. 22 5. 5 5. 20 5. 36 5. 50 6. 0 6. 46 7. 33 7. 48 8. 10 8. 26 9. 5 9. 10 *** 10. 36 10. 45 *** 11. 6 *** 11. 42 11. 50 *** 13. 7 13. 26 13. 33 13. 47 14. 10	.0955 .0962 .0966 .0962 .0970 .0997 .0993 .0980 .0982 .0965 .0984 .0977 .0989 .0975 *** .0974 .0983 *** .0979 .0994 *** .0980 *** .0965 .0976 *** .0990 .0974 .0991 .0964 *** .0951	Sept. 25 0. 25 2. 11 6. 42 8. 30 11. 27 12. 0 12. 55 13. 39 14. 10 15. 13 15. 45 16. 29 18. 32 21. 51 22. 11 23. 59	(†) .01083 .01100 .00789 .00710 .00712 .00744 .00720 .00738 .00685 .00793 .00768 .00820 .00864 .01060 .01034 .01069	Sept. 25 1. 0 3. 0 9. 0 21. 0	53. 0 54. 0 55. 5 55. 5 56. 3 57. 4 50. 3 52. 2										

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Sept. 25		Sept. 25							Sept. 26		Sept. 26						
16. 43	21. 4. 40	14. 20	.0952						9. 54	21. 12. 45	6. 30	.0956					
16. 58	6. 30	14. 28	.0957						10. 18	10. 50	6. 45	.0962					
17. 11	5. 40	14. 35	.0953						10. 37	13. 40	6. 51	.0957					
17. 42	8. 0		***						10. 48	21. 12. 20	7. 7	.0965					
17. 55	11. 40	15. 2	.0965						11. 15	20. 59. 20		***					
	(†)	15. 10	.0976						11. 30	21. 8. 0	7. 33	.0959					
19. 12	16. 0	15. 17	.0968						11. 41	6. 10	7. 40	.0961					
19. 30	9. 40	15. 24	.0975						12. 12	10. 50	7. 45	.0990					
19. 43	10. 25	15. 40	.0964						12. 24	9. 20	8. 6	.0950					
19. 51	9. 0	15. 52	.0970							***	8. 17	.0959					
20. 28	9. 10	16. 26	.0967						13. 41	7. 0	8. 26	.0969					
21. 19	11. 30	16. 47	.0977						13. 50	9. 10		***					
21. 50	13. 50		***						14. 9	9. 0	9. 0	.0957					
21. 57	13. 40	17. 45	.0976						14. 45	14. 15	9. 11	.0966					
22. 11	15. 0	18. 7	.0985						15. 13	12. 10	9. 25	.0949					
22. 16	14. 0		***						15. 27	13. 0	9. 33	.0958					
22. 28	15. 5	18. 45	.0966						15. 37	10. 50	9. 37	.0950					
22. 42	17. 15		***						15. 54	10. 25	9. 48	.0961					
23. 6	16. 0	19. 5	.0958						16. 0	12. 0		***					
23. 41	19. 30	19. 17	.0962							***	10. 16	.0955					
23. 59	20. 25	19. 30	.0951						18. 57	9. 10	10. 27	.0966					
			***							***	10. 45	.0950					
		20. 7	.0952						21. 3	11. 45	10. 58	.0968					
		20. 15	.0947						23. 59	18. 50	11. 11	.0959					
		20. 42	.0954								11. 26	.0972					
			***								11. 45	.0950					
		21. 33	.0947								12. 8	.0961					
			***								12. 26	.0957					
		22. 6	.0952								13. 17	.0963					
			***								14. 18	.0956					
		22. 37	.0943								15. 3	.0969					
		22. 50	.0950								15. 42	.0959					
		23. 0	.0944									***					
		23. 36	.0957								17. 45	.0958					
		23. 51	.0952								18. 43	.0954					
		23. 59	.0957								19. 35	.0943					
			***									***					
											23. 3	.0929					
											23. 59	.0938					
Sept. 26		Sept. 26		Sept. 26		Sept. 26			Sept. 27		Sept. 27		Sept. 27		Sept. 27		
0. 0	21. 20. 25	0. 0	.0957	0. 0	.01069	0. 0	53.0 53.8		0. 0	21. 18. 50	0. 0	.0938	0. 0	.00850	0. 0	58.2 58.9	
0. 30	21. 30	0. 7	.0950		.01050	1. 0	54.8 56.2		0. 49	19. 45	2. 5	.0944	3. 20	.00666	1. 0	59.0 59.5	
1. 37	20. 0	0. 40	.0957	0. 26	.00986	3. 0	57.3 58.2		4. 42	15. 10	3. 6	.0940	6. 57	.00990	3. 0	61.0 61.5	
	***	1. 26	.0943	6. 9	.00523	6. 0	59.5 59.5		7. 7	13. 30		***	8. 52	.01092	9. 0	62.0 62.2	
2. 47	16. 0	1. 57	.0959	9. 50	.00672	9. 0	58.9 59.0		17. 26	10. 15	14. 34	.0961	17. 39	.01202	21. 0	58.3 59.8	
	***	2. 17	.0962		.00735	12. 0	58.0 58.4		20. 0	7. 40	14. 40	.0972	23. 59	.01317			
3. 42	16. 15	2. 26	.0960	11. 11	.00669	18. 0	56.3 57.3		21. 25	9. 10	14. 40	***					
3. 49	14. 50	2. 42	.0961	14. 15	.00701	21. 0	56.0 57.8		23. 59	18. 40	14. 47	.0963					
4. 51	14. 10	2. 46	.0957	15. 21	.00677						15. 52	.0962					
5. 13	15. 10	3. 30	.0964	23. 59	.00850						16. 16	.0968					
5. 24	14. 40		***								18. 45	.0962					
5. 43	16. 0	3. 52	.0956								21. 34	.0939					
6. 13	11. 30		***									***					
6. 44	8. 10	4. 50	.0957									***					
6. 54	8. 0	5. 11	.0967									***					
7. 17	11. 45	5. 35	.0963														
7. 42	11. 10	5. 47	.0968														
7. 52	14. 0	5. 58	.0963														
8. 26	9. 0		***														
9. 30	10. 0	6. 17	.0965														

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.	
		Sept. 27 23. 7 23. 59	.0936 .0939															
Sept. 28 0. 0 0. 47 2. 45 3. 8 3. 13 3. 24 3. 58 13. 28 13. 51 14. 15 17. 12 20. 18 22. 12 23. 59	21. 18. 40 20. 50 17. 15 17. 30 18. 0 17. 30 16. 20 12. 30 14. 0 12. 40 12. 20 8. 40 13. 20 19. 30	Sept. 28 0. 0 1. 10 1. 25 2. 40 2. 53 3. 6 3. 17 3. 46 7. 43 8. 0 13. 17 14. 2 18. 17 21. 45 23. 6 23. 59	.0939 .0953 .0951 .0957 .0961 .0971 .0965 .0959 *** .0969 .0965 *** .0967 .0973 .0971 .0947 .0945 .0949	Sept. 28 0. 0 2. 37 9. 54. 21. 5 23. 59	.01317 .01315 .01150 .01623 .01633	Sept. 28 1. 0 3. 0 9. 0 21. 0	59.3 60.8 59.8 55.0	60.7 61.7 61.5 56.0										
Sept. 29 0. 0 0. 35 2. 22 4. 40 6. 27 11. 48 12. 27 14. 5 19. 12 20. 19 21. 20 21. 28 22. 44	21. 19. 30 20. 35 18. 0 13. 50 12. 40 13. 10 11. 50 13. 0 10. 40 8. 15 13. 15 12. 30 13. 35 (†)	Sept. 29 0. 0 1. 40 9. 45. 20. 10 23. 59	.0949 *** .0961 .0961 .0971 *** .0973 *** .0945 .0947 (†)	Sept. 29 0. 0 1. 40 9. 45. 20. 10 23. 59	.01633 .01622 .01387 .01620 .01712	Sept. 29 1. 0 3. 0 9. 0 21. 30	57.3 58.7 58.0 54.3	57.9 59.0 59.0 56.0										
Sept. 30 6. 19 21. 0	21. 9. 12* 6. 19*	Sept. 30 6. 19 21. 0	.0978* .0972*	Sept. 30 0. 0 10. 34. 21. 50 23. 59	.01712 .01508 .01624 .01657	Sept. 30 6. 19 21. 0	57.0 54.5	58.4 55.7										
Oct. 1 0. 45 0. 52 1. 14 1. 45 1. 53 2. 16 2. 25 2. 53 3. 14 3. 51 4. 1 4. 16	(†) 21. 21. 30 22. 15 19. 45 20. 20 19. 15 19. 30 20. 50 16. 40 20. 50 16. 0 16. 20 14. 10	Oct. 1 0. 37 0. 52 1. 7 1. 45 2. 15 2. 17 2. 46: 3. 17 3. 36 3. 47	(†) .0952 .0955 .0951 *** .0959 *** .0953 .0959 .0941 .0966 .0962 .0947	Oct. 1 0. 0 3. 11 6. 16 8. 45 12. 37 22. 29 23. 59	.01657 .01618 .01400 .01262 .01173 .01543 .01517	Oct. 1 1. 0 3. 0 9. 0 21. 0	56.3 58.2 59.5 55.0	57.2 58.8 60.0 56.3										
		Oct. 1 4. 52 5. 55 6. 40 7. 12 7. 26 7. 30 7. 41 8. 12 8. 42 9. 15 10. 11 10. 28 10. 45 11. 11 11. 44 12. 7 12. 39 12. 58 13. 7 13. 30 14. 21 14. 55 15. 15 15. 24 15. 39 15. 54 16. 15 16. 27 16. 37 16. 53 18. 30 18. 45 19. 11 19. 45 20. 0 20. 12 20. 30 21. 21 21. 41	21. 14. 55 12. 0 9. 50 0. 50 0. 30 21. 1. 30 20. 59. 50 21. 6. 30 20. 59. 20 21. 5. 40 20. 59. 20 21. 1. 40 8. 45 8. 30 10. 15 12. 10 10. 10 8. 0 9. 10 7. 0 9. 50 8. 50 9. 20 10. 45 9. 50 11. 40 10. 30 13. 50 13. 20 14. 50 10. 30 11. 10 10. 20 11. 30 9. 0 9. 30 8. 0 12. 0 11. 30 ***	Oct. 1 4. 0 4. 10 5. 2 5. 15 6. 10: 7. 3 8. 4 8. 25 8. 51 9. 45 10. 27 11. 8 11. 23 11. 40 12. 26 13. 7 13. 22 13. 46 14. 33 15. 46 16. 47: 18. 0 19. 5 20. 3 20. 47 21. 5 22. 4 23. 7 23. 59	.0948 .0937 .0954 .0955 .0967 .0957 *** .0973 .0951 .0963 .0945 *** .0949 .0968 .0964 .0970 .0962 .0970 .0965 .0973 *** .0964 *** .0969 *** .0962 *** .0970 .0958 *** .0956 .0943 .0944 .0935 .0936 .0947													
Oct. 2 0. 0 0. 15 1. 7 1. 13 1. 54 2. 43 3. 5 4. 37 4. 53 5. 21 6. 13	21. 20. 55 23. 30 22. 0 21. 15 22. 30 21. 10 18. 20 12. 55 10. 40 9. 10 11. 15	Oct. 2 0. 0 1. 15 2. 50 4. 9 7. 21 11. 28 17. 12 22. 11 23. 59	.0947 .0944 .0946 .0936 .0945 .0936 .0940 *** .0936 .0951 .0949	Oct. 2 0. 0 3. 0 9. 0 21. 0	.01517 .01510 .01452 .01691 .01749 .01738 .02012 .02265 .02270	Oct. 2 1. 0 3. 0 9. 0 21. 0	58.3 60.7 61.0 56.3	58.8 61.2 62.0 57.2										

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

September 30. Owing to some inadvertance, the time-piece was not in connexion with the cylinder upon which the movements of the Declination and Horizontal Force Magnets are registered.

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Oct. 2 6.42 7.9 7.59 8.13 9.16 9.45 10.9 10.32 11.6 11.19 11.45 12.28 12.57 13.38 16.51 19.12 19.26 19.50 20.8 20.19 20.51 21.50 22.12 22.40 22.51 23.6 23.18 23.26 23.48 23.56 23.59	21. 9.40 11.10 10.40 9.0 11.20 9.50 10.30 10.10 7.45 10.0 4.30 11.50 9.10 11.30 11.40 8.30 9.0 8.10 8.20 9.50 11.0 11.15 15.0 14.0 17.45 16.30 19.15 19.0 23.40 21.15 22.0	Oct. 2 4.22 4.37 4.47 5.6 5.47 6.36 7.3 8.15 10.10 10.25 10.45 11.0 11.17 12.7 12.50 13.7 13.50 14.33 19.0 19.33 20.17 20.46 21.25 21.52 22.17 22.40 22.50 23.10 23.17 23.26 23.45 23.52 23.59	.0951 .0946 .0951 .0951 .0963 .0957 .0956 .0964 .0967 .0970 .0968 .0972 .0963 .0969 .0967 .0971 .0968 .0969 .0957 .0949 .0951 .0947 .0948 .0954 .0948 .0957 .0940 .0945 .0937 .0923 .0924														
Oct. 3 0.0 0.11 0.16 0.45 0.57 1.10 1.19 1.30 1.54 2.0 2.7 2.16 2.30 2.40 2.51 3.12 3.14 3.27 4.0 4.54 5.33	21. 22.5 23.45 23.30 27.0 26.20 23.40 25.30 23.0 26.15 24.35 26.25 25.0 21.0 22.15 31.30 14.20 15.15 13.40 20.0 15.0 13.20	Oct. 3 0.0 0.50 1.26 1.53 2.32 2.46 3.0 3.10 3.16 3.42 4.40 5.4 5.32 5.46 6.3 7.26 7.45 8.33	.0925 .0949 .0934 .0948 *** .0943 .0964 .0900 .0921 .0917 .0928 *** .0927 .0933 .0930 .0935 .0932 .0940 .0948 *** .0942	0.0 1.0 3.0 4.58 11.52 14.29 21.6 21.57 22.14 23.43	.02270 (†) .02262* .02218 .01786 .01835 .01970 .02493 .02618 .02590 .02573 (†)	Oct. 3 0.0 1.0 3.0 6.0 9.0 12.0 18.0 21.0	58.3 60.0 63.0 62.8 61.0 60.5 53.1 52.2	59.6 60.7 63.0 63.2 61.7 61.3 55.0 54.8									
Oct. 3 7.24 8.6 9.26 9.40 10.26 12.7 13.10 14.18 15.39 18.45 19.27 20.11 20.21 20.30 20.49 21.10 21.42 21.56 22.11 22.45 22.57 23.22 23.42 23.59	21. 12.25 13.30 *** 9.50 7.40 10.40 *** 11.50 11.15 15.30 12.10 10.15 11.5 15.40 14.40 15.5 14.30 17.0 15.0 16.40 16.30 18.5 17.20 20.20 20.0 24.20	Oct. 3 8.46 9.23 10.46 11.3 12.6 12.15 17.3 19.7 19.43 20.7 21.33 *** 23.8 23.33 23.47 23.59 17.0 15.0 16.40 16.30 18.5 17.20 20.20 20.0 24.20	.0944 .0938 .0950 .0947 .0955 .0951 .0961 .0959 .0946 .0950 *** .0942 *** .0926 .0931 .0925 .0928														
Oct. 4 0.0 0.15 0.52 1.51 2.45 3.13 3.37 3.44 3.58 4.16 4.46 5.14 5.39 5.49 6.13 6.24 6.39 6.44 6.58 7.14 7.21 7.36 9.31 9.44 9.54 10.13 10.40	21. 24.20 21.30 18.30 *** 20.5 *** 18.45 *** 16.30 17.20 18.50 16.30 15.15 16.30 13.10 12.40 14.15 10.50 12.20 10.0 21.16.0 20.55.10 21.1.30 1.0 7.0 7.15 5.45 7.15 4.15 5.30	Oct. 4 0.0 0.15 0.36 0.54 1.50 2.46 3.7 3.10 3.40 4.7 4.40 5.7 5.40 5.52 6.36 6.45 7.6 7.17 8.0 9.7 9.23 9.32 9.45 10.2	.0928 .0926 .0940 *** .0936 *** .0941 *** .0932 .0936 .0932 .0945 .0934 .0946 .0935 .0946 .0940 .0952 .0915 .0953 *** .0952 *** .0941 *** .0939 .0944 .0941 .0942 .0935	0.22 1.24 7.42 10.50 11.58 14.15 21.10 23.59	(†) .02590 .02573 .01920 .01848 .01859 .01890 .02304 .02409	Oct. 4 0.0 1.0 3.0 9.0 21.0	54.0 55.0 57.8 58.2 53.2	56.0 55.7 57.7 58.4 54.6									

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Oct. 4		Oct. 4							Oct. 6		Oct. 6		Oct. 6		Oct. 6		
11. 4	21. 3. 20	10. 33	.0944						7. 55	21. 10. 40	17. 33	.0967	5. 37	{ .01848			
11. 13	4. 30	10. 50	.0939						11. 28	10. 20	21. 10	.0946	12. 0	{ .01972			
11. 22	3. 40	11. 36	.0954						12. 0	9. 15	***	***	12. 0	{ .01882			
11. 50	6. 45	12. 21	.0946						12. 44	10. 15	23. 0	.0943	20. 5	{ .02072			
12. 15	3. 0	13. 0	.0955						16. 30	10. 10	23. 59	.0947	23. 59	{ .02100			
12. 41	5. 0	***	***						16. 44	9. 20							
13. 7	4. 0	13. 45	.0952						16. 59	10. 50							
13. 15	2. 50	14. 6	.0967						17. 54	10. 15							
13. 39	8. 0	14. 17	.0962						20. 30	7. 30	***						
13. 45	8. 10	14. 40	.0964						21. 49	10. 0							
13. 52	9. 30	***	***						23. 55	16. 30							
14. 26	2. 0	16. 4	.0959						23. 59	16. 20							
14. 57	2. 10	16. 33	.0963														
15. 41	7. 40	***	***														
17. 45	12. 15	17. 40	.0954						Oct. 7	21. 16. 20	0. 0	.0947	0. 0	.02100	10. 15	62. 0	63. 0
17. 58	15. 0	18. 17	.0964						1. 42	18. 50	***	***	4. 49	.02096	21. 0	57. 0	57. 2
18. 13	14. 55	18. 50	.0956						2. 20	17. 30	2. 46	.0951	11. 26	.01992			
18. 33	10. 0	19. 10	.0960						2. 56	18. 25	3. 10	.0957	22. 50	.02456			
18. 45	11. 0	***	***						6. 0	13. 40	***	***	23. 59	.02481			
18. 57	9. 30	20. 13	.0950						15. 54	11. 45	14. 36	.0969					
19. 17	11. 0	20. 38	.0940						16. 6	12. 30	***	***					
20. 5	8. 50	21. 16	.0941						17. 37	11. 0	18. 45	.0970					
21. 28	9. 50	21. 33	.0947						17. 44	11. 30	***	***					
21. 42	12. 10	21. 52	.0939						18. 41	9. 55	22. 46	.0941					
21. 57	12. 0	22. 10	.0941						19. 9	10. 40	23. 59	.0943					
22. 21	14. 10	22. 33	.0932						20. 12	7. 20							
22. 37	13. 30	23. 59	.0935						21. 10	13. 0							
23. 59	19. 0								21. 24	11. 0							
									23. 45	18. 0							
									23. 59	17. 40							
Oct. 5		Oct. 5		Oct. 5		Oct. 5			Oct. 8	21. 17. 40	0. 0	.0943	0. 0	.02481	1. 0	58. 5	58. 3
0. 0	21. 19. 0	0. 0	.0935	0. 0	.02409	1. 0	56. 0	56. 8	0. 0	19. 0	***	***	1. 40	.02470	3. 0	59. 3	59. 2
0. 29	20. 40	0. 25	.0940	0. 43	.02418	3. 0	58. 2	58. 6	1. 5	17. 30	1. 36	.0944	3. 58	{ .02149	9. 0	55. 3	57. 5
0. 45	19. 25	0. 37	.0935	3. 0	.02308	9. 0	60. 5	61. 5	3. 12	***	1. 50	.0938	5. 9	{ .02192	21. 0	49. 7	51. 0
1. 56	17. 40	1. 24	.0952	6. 11	.01888	21. 0	57. 3	58. 6	5. 57	13. 0	2. 46	.0948	7. 0	{ .02100			
2. 15	20. 5	1. 47	.0952	7. 45	.01753				10. 52	***	3. 30	.0944	7. 0	{ .02154			
2. 29	17. 30	2. 0	.0957	16. 9	.01822				11. 13	11. 30	4. 10	.0948	9. 25	.02252			
2. 39	18. 30	2. 7	.0953	23. 59	.02089				11. 45	9. 45	4. 46	.0954	13. 14	.02580			
2. 50	15. 50	2. 16	.0957						11. 15	***	5. 24	.0961	21. 58	.02531			
3. 37	14. 45	2. 20	.0947						12. 27	11. 15	9. 36	.0974	23. 59	.02500			
4. 0	15. 0	2. 36	.0954						12. 42	9. 50	9. 50	.0976					
4. 45	13. 40	2. 46	.0945						13. 43	3. 10	***	***					
9. 15	10. 0	3. 47	.0943						13. 50	3. 30	10. 43	.0975					
13. 30	11. 20	5. 30	.0945						14. 11	0. 30	10. 56	.0977					
14. 54	10. 40	18. 17	.0966						14. 14	0. 15	***	***					
15. 50	11. 0	20. 5	.0962						14. 54	6. 20	11. 20	.0969					
16. 12	12. 30	22. 48	.0942						15. 10	4. 0	11. 53	.0979					
17. 45	10. 50	23. 59	.0936						15. 15	8. 0	12. 13	.0975					
18. 27	11. 10								15. 44	5. 45	12. 45	.0987					
20. 54	7. 35								15. 52	7. 0	12. 48	.0985					
21. 36	8. 0								16. 5	5. 30	13. 7	.0992					
23. 56	15. 10								16. 21	8. 0	13. 20	.0981					
23. 59	14. 40								16. 30	7. 40	13. 33	.0988					
									16. 43	9. 0	13. 53	.0980					
									18. 0	9. 50	14. 3	.0984					

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.			
		Oct. 14 22. 15 23. 59	.0968 .0971																	
Oct. 15 0. 0 0. 5 0. 40 0. 57 1. 9 1. 45 4. 30 4. 42 4. 50 7. 13 7. 54 8. 35 8. 45 9. 16 10. 11 11. 30 11. 50 15. 36 15. 41 15. 44 18. 41 18. 48 18. 58 19. 8 19. 30 19. 42 19. 54 20. 0 20. 29 20. 43 21. 56 23. 30 23. 43 23. 59	21. 18. 45 18. 30 19. 45 19. 30 20. 30 17. 35 13. 50 14. 50 14. 10 13. 10 13. 45 10. 45 13. 40 11. 30 11. 10 12. 10 11. 10 11. 30 10. 40 12. 15 10. 30 9. 10 9. 0 10. 30 8. 10 8. 15 6. 50 10. 30 8. 0 9. 30 12. 0 20. 0 19. 30 21. 0	Oct. 15 0. 0 0. 15 *** 2. 47 3. 2 3. 46 4. 6 4. 30 4. 38 5. 33 6. 40 *** 8. 10 8. 33 8. 47 *** 10. 33 *** 18. 4 *** 18. 36 *** 19. 0 *** 22. 17 23. 17 23. 59	.0971 .0969 *** .0979 .0976 .0980 .0976 .0979 .0978 .0985 *** .0983 .0991 *** .0974 .0979 .0969 *** .0981 *** .0983 *** .0978 *** .0981 *** .0946 .0946 .0958	Oct. 15 0. 0 0. 57 3. 48 8. 12 10. 21 20. 51 23. 59	.02317 .02312 .02190 .01769 .01625 .01769 .01686	Oct. 15 1. 0 3. 0 9. 0 21. 0	53.0 55.7 59.7 59.7	53.8 55.5 59.3 59.7												
Oct. 16 0. 0 0. 40 0. 50 1. 6 1. 24 1. 44 1. 52 2. 9 4. 27 4. 36 4. 43 5. 10 5. 51 6. 41 7. 47 8. 26 8. 43 8. 59	21. 21. 0 21. 10 22. 25 21. 40 22. 30 21. 30 19. 30 21. 45 16. 15 17. 30 16. 40 16. 0 16. 40 15. 35 15. 20 13. 45 12. 0 12. 0	Oct. 16 0. 0 0. 35 0. 46 1. 2 1. 20 1. 45 2. 3 2. 15 3. 46 3. 52 4. 16 4. 33 5. 17 5. 46 6. 0 6. 14 *** 7. 25	.0958 .0957 .0962 .0959 .0965 .0954 .0969 .0967 .0973 .0976 .0975 .0981 .0978 .0984 .0981 .0986 *** .0982	Oct. 16 0. 0 1. 26 7. 10 10. 56 16. 50 21. 46 23. 59	.01686 .01640 .01691 .01863 .02302 .02480 .02510	Oct. 16 1. 0 3. 0 9. 0 21. 10	60.0 60.0 57.0 52.0	60.0 60.0 57.2 53.0												
		Oct. 16 9. 15 9. 51 10. 35 10. 52 11. 5 12. 10 13. 11 13. 26 13. 30 14. 9 14. 54 15. 26 15. 48 16. 0 16. 12 16. 36 17. 10 17. 26 17. 41 18. 32 18. 45 20. 12 21. 25	21. 10. 20 11. 40 10. 50 12. 40 11. 0 9. 40 13. 40 11. 15 11. 20 6. 40 10. 10 10. 0 11. 30 10. 20 10. 45 8. 50 8. 0 8. 45 10. 0 9. 0 *** 11. 0 *** 10. 0 14. 40 (†)	Oct. 16 7. 46 7. 53 8. 16 8. 36 9. 16 9. 28 9. 50 10. 16 *** 10. 45 11. 0 11. 16 11. 43 11. 52 12. 3 12. 15 12. 46 13. 30 *** 14. 36 *** 17. 6 *** 19. 25 21. 12 21. 45 *** 23. 0 *** 23. 59	.0992 .0984 .0987 .0980 .0990 .0983 .0985 .0978 *** .0980 .0976 .0984 .0980 .0983 .0981 .0986 .0978 .0995 *** .0987 *** 17. 6 *** .0986 .0962 .0960 *** .0950 *** .0960															
		Oct. 17 1. 0 1. 13 1. 54 2. 9 2. 38 3. 28 4. 0 5. 8 6. 15 6. 27 6. 59 7. 50 8. 6 8. 15 8. 40 8. 44 9. 3 9. 30 10. 11 10. 52 11. 50 13. 30 14. 0 15. 43 17. 50	21. 27. 46* 26. 45 26. 0 23. 20 20. 40 20. 15 17. 20 14. 40 13. 30 12. 20 12. 10 12. 0 11. 15 11. 50 5. 0 6. 0 5. 30 7. 0 14. 20 7. 0 10. 0 11. 40 10. 0 13. 5 11. 40	Oct. 17 0. 0 0. 56 1. 17 1. 40 3. 20 *** 3. 42 4. 10 5. 4 6. 18 6. 33 *** 7. 26 7. 47 *** 8. 46 9. 15 9. 34 *** 10. 16 *** 17. 5 *** .0986 ***	Oct. 17 0. 0 0. 39 1. 11 1. 56 10. 42 19. 15 23. 59	.02510 .02512 .02531 .02450 .01717 .02170 .02298	Oct. 17 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 18. 0 21. 0	54.5 56.0 57.5 58.6 57.9 57.0 53.0 53.0	54.7 55.9 57.5 58.5 57.8 57.0 54.0 54.0											

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol † attached to a time denotes that the reading will apply equally well to a considerable range of time near that which recorded. A brace denotes that at this time 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Oct. 17 h m s 20. 11 21. 7. 20		Oct. 17 h m s 20. 27	'0974						Oct. 20 h m s 3. 44 21. 16. 30		Oct. 20 h m s 4. 39	'0970 ***					
20. 54 8. 30		21. 3	'0964						9. 8 13. 50		5. 17	'0966					
21. 46 12. 20		21. 45	'0963 ***						9. 52 7. 45		5. 53	'0974					
22. 15 12. 15		22. 6	'0956 ***						10. 51 11. 30		6. 10	'0972 ***					
23. 27 17. 30		23. 59	'0960						14. 49 12. 20		6. 47	'0978					
23. 42 17. 20									15. 15 10. 50		7. 3	'0976 ***					
23. 47 18. 15									15. 54 15. 50		8. 18	'0982					
23. 59 18. 55									16. 14 14. 30		8. 37	'0979					
									16. 44 10. 5		9. 5	'0983 ***					
									19. 5 11. 30		10. 17	'0973					
Oct. 18 o. o 21. 18. 55		Oct. 18 o. o	'0960	Oct. 18 o. o	'02298	Oct. 18 o. o	54. 55. 0		20. 26 8. 10		11. 20	'0979					
o. 44 19. 10		o. 47	'0962	2. 40	'02250	1. o	55. 0 55. 6		21. 24 8. o		10. 17	'0973					
1. 13 18. 15		1. 16	'0969 ***	11. 56	'01809	3. o	56. 7 56. 6		22. 7 11. 20		11. 27	'0979 ***					
1. 30 18. 55		4. 58	'0980	22. 43	'02058	9. o	58. 2 58. 0		22. 14 10. 50		15. 12	'0984					
3. 43 15. 30		23. 59	'02069	21. o	55. 0 56. 0				22. 49 14. o		15. 25	'0981					
3. 51 16. 10									22. 58 13. 30		16. 17	'0991 ***					
4. 10 14. 55									23. 59 16. 40		17. 46	'0987					
6. 11 13. 30											18. 19	'0992					
11. 29 11. 50		22. 2	'0975								19. 32	'0988 ***					
14. 57 13. 40		22. 8	'0966 ***								21. 47	'0972					
19. o 13. o		23. 47	'0960								21. 52	'0975					
20. 43 10. 15		23. 59	'0962								22. 13	'0967 ***					
21. 58 12. 30											23. 59	'0974					
22. 10 13. 55																	
22. 14 12. o																	
23. 21 19. 55																	
23. 45 20. 30																	
23. 59 19. 30																	
Oct. 19 o. o 21. 19. 30		Oct. 19 o. o	'0962	Oct. 19 o. o	'02069	Oct. 19 1. o	57. 0 57. 2		Oct. 21 o. o 21. 16. 40		Oct. 21 o. o	'0974	Oct. 21 o. o	'02724	Oct. 21 6. 7	53. 0 53. 0	
o. 14 19. 5		o. 18	'0965 ***	1. 4	'02065	3. o	59. 0 59. 0		1. 13 18. 10		1. 48	'0981	2. 13	'02730	21. o	49. 8 51. 5	
o. 31 20. 20		2. 50	'0973 ***	2. 56	'01960	9. o	57. 0 57. 2		1. 26 17. 25		6. 20	'0988	12. 52	'02556			
4. 22 15. 20		3. 46	'0971 ***	7. 51	'01877	21. o	55. 6 56. 2		2. 30 17. o		(†)	'0987	21. 38	'02784			
6. 44 15. o		5. 55	'0982	17. 37	'01620				5. 52 14. o		12. 45	'0989	23. 59	'02745			
10. 56 12. o		6. 17	'0978 ***	22. 28	'01645				7. 29 13. o		18. 11	'0997					
18. 36 13. 15		9. 4	'0975	23. 59	'01685				17. 13 13. 30		20. 37	'0987					
20. 7 9. 30		11. 9	'0977		'02033				19. 12 11. 50		22. 36	'0973 ***					
21. 33 11. 30		12. 5	'0973		'02060				20. 7 9. 15		23. 18	'0969					
23. 42 17. 30		15. 36	'0975						21. o 12. 20		23. 25	'0973					
23. 56 20. 30		18. 38	'0981						23. 46 18. 30		23. 49	'0961					
23. 59 19. 30		21. 35	'0967 ***						23. 59 18. 40		23. 59	'0961					
		22. 17	'0957 ***														
		23. 59	'0958														
Oct. 20 o. o 21. 19. 30		Oct. 20 o. o	'0958	Oct. 20 o. o	'02060	Oct. 20 1. o	57. 0 57. 2		Oct. 22 o. o 21. 18. 40		Oct. 22 o. o	'0961 ***	Oct. 22 o. o	'02745	Oct. 22 1. o	54. 0 55. 0	
o. 12 20. 10		o. 17	'0962	1. 30	'02044	3. o	58. 4 58. 5		o. 21 20. 30		1. 21	'02680	3. o	57. 8 57. 5			
o. 21 18. o		o. 33	'0951	7. 42	'01656	9. o	56. 8 57. 4		1. 26 21. 30		8. 20	'02820	9. o	57. 0 58. 0			
o. 43 17. 30		1. 2	'0963	16. 15	'02049	22. 22	49. 0 50. 8		2. 56 19. o		1. 12	'0958 ***	14. 15	'01936	21. o	56. 3 57. 2	
1. 9 20. 40		1. 30	'0958 ***	23. 59	'02724				4. 15 14. 30		3. 57	'0967	20. 11	'02030			
2. 54 20. o									6. 11 13. 30		4. 15	'0966 ***	23. 59	'02028			
									11. 38 13. 25								
									18. 54 11. 15								
									20. 21 7. 40								
									21. 44 9. 50								
									23. 5 17. 25								
									23. 14 21. o								
									23. 27 16. 45								

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

(c)

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.		
Oct. 22 23. 29 23. 39 23. 59	21. 18. 20 16. 20 17. 25	Oct. 22 23. 32 23. 35 23. 44 23. 48 23. 53 23. 59	.0954 *** .0965 *** .0947 *** .0955 *** .0946 *** .0948	h m		h m	o	o	Oct. 25 19. 10 20. 54 21. 51 23. 20 23. 59	21. 11. 45 9. 0 10. 45 18. 45 20. 45	Oct. 25 9. 2 16. 7 18. 18 21. 35 23. 59	.0987 *** .0989 *** .0984 *** .0963 *** .0961	h m	h m	h m	.01712 .01958 .01955 .02112 .02316	Oct. 25 9. 0 21. 6	61. 0 59. 6 60. 0	61. 5
Oct. 23 0. 0 2. 7 3. 58 6. 12 10. 42 12. 0 18. 18 21. 21 23. 17 23. 59	21. 17. 25 19. 45 16. 40 14. 5 13. 15 13. 40 12. 40 10. 0 18. 0 20. 0	Oct. 23 0. 0 5. 0 1. 12 3. 15 10. 13 11. 12 14. 25 18. 22 20. 15 21. 45 22. 56 23. 59	.0949 *** .0966 *** .0963 *** .0977 *** .0973 *** .0975 *** .0977 *** .0970 *** .0959 *** .0955 *** .0958	Oct. 23 0. 0 5. 0 15. 45 23. 59	.02028 *** .01685 *** .01718 *** .01862	Oct. 23 1. 0 3. 0 9. 30 21. 0	59. 7 60. 7 61. 5 59. 0	59. 6 60. 8 62. 0 59. 5	Oct. 26 0. 0 1. 25 1. 41 1. 52 2. 2 2. 17 5. 0 8. 26 10. 27 10. 46 11. 2 11. 21 11. 55 12. 45 13. 30 13. 51 15. 28 15. 45 17. 4 18. 12 20. 21 20. 54 21. 11 21. 27 21. 36 22. 13 22. 25 22. 39 23. 12 23. 27 23. 59	21. 20. 45 23. 30 21. 40 24. 30 22. 10 23. 0 16. 30 14. 20 14. 45 12. 20 12. 30 14. 30 6. 50 13. 15 12. 45 14. 0 13. 40 14. 30 13. 0 18. 12 11. 30 14. 0 15. 5 13. 30 17. 15 16. 45 18. 30 19. 0 17. 10 21. 20	Oct. 26 0. 0 5. 20 7. 31 13. 48 23. 59	.0961 *** .0959 *** .0957 *** .0960 *** .0959 *** .0962 *** .0957 *** .0958 *** .0967 *** .0960 *** .0956 *** .0978 *** .0977 *** .0984 *** .0975 *** .0986 *** .0973 *** .0979 *** .0977 *** .0983 *** .0981 *** .0986 *** .0986 *** .0981 *** .0984 *** .0976 *** .0978 *** .0983 *** .0975 *** .0978 *** .0971 *** .0975 *** .0966 *** .0961 *** .0967	Oct. 26 0. 0 3. 0 9. 0 21. 0	.02316 *** .02051 *** .01991 *** .02132 *** .02572	Oct. 26 1. 0 3. 0 9. 0 21. 0	61. 8 62. 7 61. 0 56. 5 61. 8 62. 5 61. 2 58. 0			
Oct. 24 0. 0 0. 23 2. 3 2. 45 2. 59 3. 30 4. 37 6. 33 6. 52 7. 21 7. 56 8. 41 9. 17 9. 40 12. 30 12. 54 13. 57 15. 9 17. 45 18. 9 19. 15 20. 28 21. 30 21. 44 21. 52 22. 21 23. 3 23. 13 23. 59	21. 20. 0 21. 10 19. 50 18. 0 18. 30 17. 0 16. 0 13. 50 14. 0 11. 45 15. 10 13. 40 14. 30 14. 20 16. 15 8. 15 14. 0 12. 10 13. 10 11. 0 11. 10 15. 30 15. 20 17. 10 17. 0 19. 0 18. 10 21. 15	Oct. 24 0. 0 1. 41 4. 40 4. 54 7. 49 14. 10 20. 4 23. 59	.0958 *** .0971 *** .0966 *** .0973 *** .0974 *** .0970 *** .0973 *** .0964 *** .0972 *** .0971 *** .0974 *** .0975 *** .0981 *** .0983 *** .0975 *** .0970 *** .0975 *** .0965 *** .0956 *** .0956 *** .0948 *** .0956	Oct. 24 0. 0 1. 41 4. 40 4. 54 7. 49 14. 10 20. 4 23. 59	.01862 *** .01884 *** .01686 *** .01710 *** .01864 *** .01788 *** .01918 *** .02130 *** .02103	Oct. 24 0. 0 1. 0 3. 0 6. 0 9. 10 12. 0 18. 0 21. 0	59. 2 60. 6 62. 3 62. 0 61. 8 62. 2 60. 9 59. 0 59. 3	59. 9 60. 5 62. 2 61. 8 61. 7 59. 8 60. 2	Oct. 27 0. 0 0. 24	21. 21. 20 23. 40	Oct. 27 0. 0 2. 6	.0967 *** .02572 *** .02520	Oct. 27 0. 0 3. 0	59. 3 61. 8 59. 2 61. 1					

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

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Oct. 27 0. 50	21. 21. 20	Oct. 27 1. 47	.0960	Oct. 27 4. 42	.02322	Oct. 27 9. 0	60.4	60.8	Oct. 29 1. 58	21. 22. 50	Oct. 29 2. 4	.0964	Oct. 29 5. 22	.02286	Oct. 29 9. 0	61.8	62.0
1. 7	22. 45	1. 52	.0961	8. 15	.02151	22. 15	58.2	58.9	2. 11	21. 0	2. 33	.0972	7. 30	.02230	21. 0	55.0	56.8
1. 19	20. 45	2. 10	.0955	10. 38	.02113				2. 26	20. 10	2. 47	.0964	9. 38	.02064			
2. 6	23. 30		***	11. 11	.02130				2. 30	21. 0	3. 23	.0966	11. 23	.02057			
2. 21	20. 40	2. 40	.0967	12. 0	.02091				2. 54	20. 25	3. 40	.0960	17. 0	.02341			
2. 36	20. 0	2. 52	.0964	14. 40	.02169				3. 1	19. 30	4. 7	.0973	22. 37	.02758			
2. 42	21. 0		***	15. 14	.02144				4. 15	20. 15	4. 33	.0955	23. 59	.02745			
3. 0	18. 45	4. 0	.0971	20. 43	.02310				4. 43	16. 40	4. 43	.0960					
5. 37	15. 0	4. 17	.0966	23. 59	.02343				4. 58	15. 30	4. 48	.0955					
6. 54	14. 10		***						5. 17	19. 50	5. 11	.0985					
7. 42	0. 15	7. 20	.0978						5. 26	18. 50	5. 26	.0976					
8. 6	6. 10	7. 46	.1001						5. 40	24. 0	5. 46	.0951					
8. 28	4. 20	8. 10	.0979						5. 48	13. 0	5. 48	.0960					
8. 54	9. 30	8. 46	.0965						5. 53	14. 45	6. 0	.0951					
9. 13	6. 20	9. 37	.0960						6. 0	14. 45	6. 6	.0954					
10. 7	10. 30	10. 16	.0970						6. 10	17. 20	6. 16	.0935					
10. 55	3. 10	10. 45	.0960						6. 17	11. 45	6. 20	.0940					
11. 42	15. 45	11. 20	.0971							***	6. 33	.0929					
12. 15	6. 50	12. 0	.0973						7. 8	13. 15	6. 45	.0933					
12. 42	5. 0		***						7. 14	15. 30		***					
13. 13	7. 0	12. 42	.0980						7. 25	14. 50	6. 56	.0928					
13. 26	5. 40		***						7. 49	17. 0	7. 7	.0932					
13. 40	11. 20	13. 43	.0966						8. 27	2. 0		***					
14. 7	11. 10		***						8. 33	3. 30	7. 22	.0925					
14. 32	19. 20	14. 46	.0977						8. 43	1. 20		***					
15. 19	8. 45		***							***	7. 44	.0931					
15. 44	8. 30	15. 22	.0972						9. 11	1. 55	7. 48	.0927					
	***	15. 53	.0979						9. 26	5. 45	8. 22	.0937					
17. 12	14. 0	16. 37	.0974						9. 41	1. 40	8. 33	.0934					
17. 59	12. 15	17. 22	.0980						9. 44	3. 10	8. 46	.0946					
19. 36	14. 55	19. 17	.0978						9. 53	1. 35	9. 0	.0932					
20. 37	14. 30	20. 37	.0961						10. 15	10. 25	9. 2	.0950					
20. 50	16. 20		***						11. 13	16. 0	9. 25	.0947					
20. 56	16. 0	21. 42	.0966						17. 57	15. 0	9. 32	.0951					
	(†)	22. 46	.0961						18. 15	13. 20	9. 46	.0948					
22. 15	15. 47*		***							***	9. 53	.0958					
23. 59	22. 30	23. 59	.0959						19. 28	13. 15	10. 2	.0955					
									19. 40	11. 0	10. 20	.0961					
										***		***					
Oct. 28 0. 0	21. 22. 30	Oct. 28 0. 0	.0959	Oct. 28 0. 0	.02343	Oct. 28 8. 0	63.0	64.5	20. 29	13. 0	18. 15	.0980					
0. 44	20. 50	0. 45	.0961	1. 20	.02330	21. 0	56.8	57.7	20. 54	10. 30		***					
1. 14	23. 15		***		.01764					***	19. 28	.0979					
1. 55	20. 50	1. 32	.0955	6. 31	.01831				22. 36	16. 40	19. 36	.0971					
2. 51	20. 40	2. 36	.0961	10. 10	.01824				22. 54	20. 20	19. 45	.0981					
3. 27	18. 15	3. 17	.0955	10. 24	.01994				23. 0	19. 55		***					
5. 51	14. 30	5. 46	.0962	12. 55	.02050				23. 13	22. 30	20. 7	.0981					
6. 15	10. 45	6. 6	.0959	23. 59	.02664				23. 31	22. 10		***					
7. 30	14. 30	6. 17	.0964						23. 45	24. 40	20. 36	.0971					
9. 11	14. 10		***						23. 59	22. 30		***					
9. 29	12. 30	16. 18	.0977								21. 2	.0973					
11. 0	14. 40	18. 52	.0977									***					
18. 38	13. 35		***								22. 47	.0947					
21. 35	11. 30	23. 45	.0953								22. 58	.0953					
22. 40	16. 0	23. 59	.0956								23. 7	.0945					
23. 59	20. 0		***									***					
Oct. 29 0. 0	21. 20. 0	Oct. 29 0. 0	.0956	Oct. 29 0. 0	.02664	Oct. 29 1. 0	59.0	59.7			23. 46	.0955					
1. 30	20. 0	2. 30	***		.02623	3. 0	61.6	62.2			23. 59	.0949					

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.	
Oct. 30 h m 0. 0	21. 22. 30	0. 0	.0949	0. 0	.02745	1. 0	58.3	59.2	Oct. 31 h m 4. 13	21. 17. 50	4. 3	.0974	h m		h m			
0. 23	21. 10		***	1. 45	.02743	3. 0	61.9	62.3	5. 18	16. 30	4. 26	.0973						
1. 13	24. 15	1. 0	.0961	6. 46	.01980	9. 0	62.5	63.0	5. 54	12. 20	4. 58	.0979						
2. 0	22. 10	1. 50	.0953	8. 14	.02085	21. 0	56.3	57.2	6. 58	14. 30	5. 26	.0978						
2. 15	23. 40	2. 53	.0960							***	5. 40	.0973						
2. 57	21. 0	3. 26	.0938	9. 54	.02063				15. 12	13. 45	5. 58	.0981						
3. 14	21. 40	4. 13	.0959	14. 43	.02122				16. 9	11. 40		***						
3. 38	16. 40	4. 47	.0964	23. 59	.02629				17. 13	13. 40	7. 17	.0985						
3. 55	17. 50	5. 11	.0959						17. 39	13. 30	7. 40	.0989						
4. 6	16. 45	5. 30	.0966						17. 51	14. 30	8. 6	.0985						
4. 37	18. 20	5. 47	.0961						20. 46	9. 30		***						
5. 40	15. 40	6. 3	.0968						23. 59	21. 30	9. 20	.0990						
5. 57	11. 50	6. 13	.0965									***						
6. 8	12. 20	6. 33	.0979								11. 33	.0995						
6. 16	11. 20	6. 46	.0947								13. 32	.0992						
6. 41	18. 45	7. 6	.0964								13. 47	.0998						
6. 57	9. 15	7. 42	.0970								14. 33	.0993						
7. 50	12. 45	8. 18	.0969								16. 16	.0993						
8. 41	8. 30	8. 33	.0966									***						
9. 21	11. 45	9. 15	.0976								16. 45	.0989						
10. 12	7. 50	9. 30	.0971									***						
10. 44	9. 45	9. 40	.0973								18. 22	.0997						
10. 59	12. 0	10. 0	.0966									***						
11. 12	11. 25	10. 23	.0967								22. 6	.0984						
12. 15	13. 15	10. 52	.0974								22. 17	.0977						
12. 43	12. 20		***									***						
13. 12	16. 30	12. 50	.0980								22. 55	.0972						
13. 24	15. 20	13. 13	.0991									***						
13. 58	15. 0	13. 35	.0982								23. 11	.0977						
14. 6	16. 0	14. 16	.0994								23. 59	.0977						
14. 43	12. 30	14. 58	.0983									***						
15. 4	11. 15	15. 25	.0988						Nov. 1	21. 21. 30	0. 0	.0977	Nov. 1	0. 0				
15. 21	12. 15	16. 38	.0989						0. 45	20. 10	1. 6	.0971	0. 11	10. 11	.02700	Nov. 1	0. 0	
16. 0	11. 25	16. 47	.0985						1. 5	21. 30	1. 17	.0967	21. 42	.01917	.02680	1. 0	53.0	
16. 24	13. 25	17. 17	.0983						1. 42	19. 45		***	23. 59	.02663		3. 0	54.8	
16. 40	12. 50		***						4. 37	17. 20	3. 18	.0973				9. 0	57.5	
17. 39	15. 0	18. 40	.0992						5. 50	14. 20	3. 37	.0969				21. 0	57.3	
20. 20	12. 15		***						6. 13	8. 30		***					57.2	
20. 49	13. 0	20. 6	.0979						6. 55	6. 50	5. 46	.0978					50.8	
21. 30	12. 15	21. 43	.0967						8. 8	12. 10	6. 10	.0967						
21. 54	14. 50	21. 50	.0968						8. 21	11. 0		***						
22. 9	14. 15	22. 36	.0961						8. 50	12. 30	7. 5	.0976						
22. 40	15. 15	23. 0	.0967						9. 19	11. 20	7. 26	.0972						
23. 12	20. 30	23. 59	.0968						9. 53	12. 20	7. 47	.0975						
23. 23	18. 0								10. 21	11. 0	8. 15	.0971						
23. 54	20. 0								10. 55	11. 50	8. 27	.0974						
23. 59	22. 10								11. 43	8. 45	9. 3	.0973						
										***		***						
Oct. 31 h m 0. 0	21. 22. 10	0. 0	.0968	Oct. 31 h m 0. 0	.02629	Oct. 31 h m 0. 0	56.3	57.2	13. 11	12. 0	9. 48	.0981						
0. 15	20. 35		***	2. 41	.02643	1. 0	56.8	57.6	13. 39	15. 55	10. 32	.0979						
0. 30	21. 40	1. 30	.0976	8. 18	.02430	3. 0	58.3	58.6	14. 30	11. 10		***						
1. 8	21. 10		***	15. 5	.02609	6. 0	58.0	58.0	15. 11	12. 15	11. 20	.0984						
1. 17	23. 0	2. 36	.0967	18. 37	.02760	9. 0	56.5	57.0	15. 42	10. 20	11. 40	.0977						
1. 49	20. 30		***	23. 59	.02700	12. 0	56.0	57.0	16. 44	13. 0	12. 15	.0979						
2. 11	22. 15	3. 15	.0969			18. 0	52.0	54.0	18. 28	11. 35	12. 43	.0988						
3. 43	18. 30	3. 20	.0966			21. 0	52.9	53.8	19. 26	13. 0		***						
3. 58	16. 35	3. 53	.0968						20. 21	8. 50	13. 12	.0985						

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Nov. 1		Nov. 1															
20. 26	21. 10. 0	13. 46	.0992							Nov. 2	11. 41	21. 12. 10	12. 46	.0983			
20. 39	8. 30	14. 12	.0989								11. 57	13. 10	12. 58	.0988			
21. 27	9. 15	17. 47	.0998								12. 6	12. 20	13. 4	.0993			
22. 50	15. 20	19. 3	.0993								12. 18	13. 45	***	***			
23. 29	20. 35	***	***								12. 40	13. 10	13. 17	.0989			
23. 59	20. 5	20. 20	.0996								13. 14	15. 30	13. 40	.0997			
			***								13. 30	13. 30	14. 0	.0989			
		21. 33	.0990								14. 20	16. 30	14. 7	.0993			
		22. 12	.0977								14. 30	14. 45	14. 23	.0985			
		23. 3	.0974								14. 37	16. 0	14. 46	.0982			
		23. 37	.0974								15. 25	8. 40	15. 8	.0977			
		23. 59	.0969								15. 51	7. 35	15. 37	.0980			
			***								16. 32	9. 50	***	***			
Nov. 2		Nov. 2	.0969	0. 0	.02663	1. 0	51.3	52.2			16. 45	11. 30	16. 3	.0991			
0. 55	21. 20. 0	0. 33	.0976	1. 10	.02690	3. 0	53.8	55.0			19. 0	12. 15	16. 20	.0984			
1. 41	23. 20	1. 3	.0971	2. 50	.02569	9. 0	55.5	55.1			19. 51	11. 10	16. 33	.0988			
1. 45	27. 0	2. 5	.0982	4. 43	.02300	21. 0	45.0	47.6			19. 57	12. 35	***	***			
1. 51	25. 15	2. 26	.0967	7. 15	.02090						20. 13	11. 15	16. 47	.0984			
1. 55	25. 55	***	***	7. 28	.02119						20. 22	12. 15	***	***			
2. 12	24. 0	2. 52	.0970	7. 36	.02066						20. 30	10. 0	17. 3	.0991			
2. 26	25. 30	3. 7	.0960	8. 15	.01954						20. 37	12. 0	17. 17	.0989			
2. 41	22. 0	3. 21	.0969	10. 43	.01833						20. 45	11. 0	17. 26	.0996			
2. 56	25. 30	3. 47	.0976	14. 44	.01886						20. 53	13. 0	17. 33	.0987			
3. 4	25. 0	***	***	22. 43	.02691						20. 58	10. 50	17. 45	.0993			
3. 12	26. 0	4. 15	.0980	23. 59	.02622						21. 8	12. 30	***	***			
3. 27	18. 30	4. 33	.0969									***	19. 20	.0990			
3. 34	19. 35	4. 42	.0976								21. 41	10. 5	19. 32	.0993			
3. 48	17. 0	4. 47	.0966									***	19. 45	.0987			
4. 13	18. 15	***	***								22. 30	12. 20	20. 17	.0988			
4. 22	17. 45	5. 42	.0977								23. 15	16. 35	20. 26	.0981			
4. 37	18. 40	5. 56	.0964								23. 59	17. 10	20. 33	.0991			
4. 43	17. 0	6. 13	.0959										20. 40	.0987			
4. 51	19. 30	6. 30	.0971										20. 46	.0990			
5. 0	16. 20	6. 37	.0968										20. 50	.0985			
5. 15	20. 30	6. 45	.0976										20. 58	.0989			
5. 24	19. 0	6. 56	.0960										***	***			
5. 36	20. 40	7. 6	.0969										23. 6	.0978			
5. 43	20. 10	7. 17	.0941										23. 59	.0978			
5. 51	21. 15	7. 25	.0972														
6. 2	18. 40	7. 32	.0954								Nov. 3	0. 0	21. 17. 10	0. 0	.0978	Nov. 3	0. 0
6. 12	19. 10	7. 45	.0967									0. 25	17. 30	0. 17	.0977	Nov. 3	1. 21
6. 26	17. 10	***	***									0. 44	20. 0	0. 33	.0983	Nov. 3	2. 15
6. 39	19. 10	8. 5	.0967									1. 13	18. 20	1. 5	.0976	Nov. 3	9. 43
6. 43	17. 45	8. 13	.0954									***	***	1. 20	.0982	Nov. 3	22. 13
6. 56	22. 10	***	***									3. 4	18. 30	1. 35	.0978	Nov. 3	23. 59
7. 10	18. 15	8. 45	.0972									***	***	1. 47	.0979		
7. 13	20. 50	8. 50	.0966									6. 0	13. 20	2. 5	.0972		
7. 45	3. 30	***	***									12. 42	11. 20	2. 15	.0978		
8. 13	13. 0	9. 37	.0979									12. 57	11. 55	2. 30	.0975		
8. 42	8. 20	9. 45	.0975									13. 26	10. 45	***	***		
8. 52	13. 0	10. 17	.0977									17. 13	11. 45	3. 15	.0977		
9. 19	12. 30	10. 20	.0982									18. 11	10. 30	3. 19	.0972		
9. 44	15. 0	***	***									19. 0	11. 45	3. 32	.0978		
10. 0	11. 40	10. 47	.0980									***	***	***	***		
10. 27	13. 20	11. 17	.0987									20. 51	9. 0	6. 0	.0985		
10. 44	11. 0	***	***										***	***	.0993		
11. 11	13. 15	12. 3	.0981											6. 17			

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.	
Nov. 3 22. 11	21. 9. 55 ***	Nov. 3 6. 45	*0987 ***								Nov. 4 23. 15 23. 59	*0972 *0977						
23. 30 23. 59	15. 0 15. 25	13. 39 16. 11 18. 46 21. 30 22. 2 23. 59	*0997 *** *0998 *** *1005 *** *0998 *** *0988 *** *0988								Nov. 5 0. 0 0. 36 1. 35 1. 45 3. 12 3. 58 4. 49 5. 57 6. 45 6. 54 7. 4 7. 31 9. 30 9. 54 10. 10 10. 28 10. 41 10. 54 11. 15 11. 42 12. 14 12. 41 17. 11 17. 24 17. 44 20. 28 22. 17 22. 57 23. 13 23. 59	21. 14. 10 14. 15 18. 15 16. 15 15. 15 8. 50 13. 20 12. 10 8. 30 9. 0 8. 20 10. 30 11. 15 8. 40 9. 0 7. 10 7. 15 5. 0 10. 10 8. 10 11. 20 9. 40 11. 10 10. 0 11. 10 9. 30 11. 0 16. 30 13. 20 16. 20	Nov. 5 0. 0 0. 56 2. 33 3. 10 3. 40 4. 7 5. 16 7. 7 7. 32 10. 30 10. 45 11. 6 11. 30 13. 15 15. 0 15. 16 10. 0 17. 3 17. 28 20. 56 22. 18 23. 0 23. 18 23. 59	*0977 *0984 *** *0975 *** *0979 *0971 *** *0982 *** *0981 *** *0990 *0987 *** *0991 *0997 *1005 *0990 *** *0987 *0990 *0995 *** *0991 *0996 *** *0987 *** *0977 *0981 *0971 *0975	Nov. 5 0. 55 3. 57 6. 15 11. 41 23. 59	(†) *02556 *02410 *02220 *02049 *02119	Nov. 5 1. 0 3. 0 9. 0 21. 0	47. 4 48. 2 49. 0 50. 0 49. 5 50. 7 47. 8 48. 6
Nov. 4 0. 0	21. 15. 25 ***	Nov. 4 0. 0 6. 25 6. 45	*0988 *1001 *0998 ***	Nov. 4 0. 0 2. 35 8. 25 13. 30 14. 16 15. 11 15. 35 19. 14 23. 30	*02618 *02610 *02307 *02219 *02172 *02197 *02146 *02317 *02466 (†)	Nov. 4 9. 0 21. 0	48. 3 50. 8 45. 3 47. 2				Nov. 6 0. 0 0. 43 0. 58 1. 45 2. 12 2. 30 4. 28 5. 45 8. 37 9. 19 12. 45 13. 13 13. 44 13. 51 15. 13 15. 44 16. 30 16. 52	21. 16. 20 17. 20 21. 0 *** 20. 15 18. 0 18. 30 11. 20 13. 30 9. 30 10. 55 10. 0 8. 50 10. 5 11. 30 10. 45 8. 30 11. 0 10. 0	Nov. 6 0. 0 0. 16 0. 43 *0978 (†) *0968* *0967* *0981* *0984* 10. 29 10. 42 15. 57 23. 59	Nov. 6 0. 0 1. 57 5. 43 10. 29 10. 42 23. 59	*02119 *02091 *01769 *01791 *01869 *01941 *02217	Nov. 6 1. 0 3. 0 9. 0 21. 0	49. 0 49. 8 51. 4 52. 1 52. 0 52. 2 47. 3 49. 0	
2. 10 3. 58 7. 0 8. 7 9. 45 10. 12 10. 44 10. 59 11. 7 11. 57 12. 13 12. 21 12. 37 12. 59 13. 19 13. 30 13. 42 14. 15 14. 27 14. 43 15. 15 15. 41 16. 11 17. 15 17. 47 18. 4	15. 10 12. 45 10. 0 10. 45 9. 0 13. 5 6. 55 6. 35 21. 8. 20 20. 56. 0 56. 20 55. 10 56. 40 54. 30 20. 59. 35 21. 0. 20 20. 59. 30 21. 2. 40 1. 0 13. 10 2. 40 7. 30 4. 0 8. 50 12. 0 10. 45 *** 11. 5 8. 20 *** 14. 30 17. 20 12. 10 16. 15 14. 10	Nov. 4 0. 0 6. 25 6. 45 9. 15 9. 50 10. 18 10. 40 11. 10 11. 41 12. 15 12. 33 12. 50 13. 21 13. 31 13. 47 14. 15 15. 17 15. 46 16. 3 16. 20 16. 45 17. 15 17. 33 17. 45 18. 15 18. 45 19. 20 19. 33 19. 52 20. 40 21. 18 22. 50	*0988 *1001 *0998 *** *1005 *** *1000 *** *1002 *0990 *0997 *0988 *1000 *0999 *0988 *** *0988 *0992 *0992 *0974 *** *0976 *0991 *0982 *0992 *0994 *** *0986 *0985 *0993 *0987 *** 0994 *** *0991 *0982 *0984 *** *0979 *** *0982 *** *0977															

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							Of H. F. Magnet.	Of V. F. Magnet.								Of H. F. Magnet.	Of V. F. Magnet.																							
Nov. 6 19. 38 20. 21 21. 19 22. 48 23. 51 23. 59	21. 10. 5 8. 50 9. 30 17. 30 17. 0 18. 20																																							
Nov. 7 0. 0 2. 9 2. 50 3. 52 4. 22 5. 29 6. 35 7. 43 8. 20 8. 37 9. 44 10. 21 10. 28 10. 43 11. 16 11. 43 12. 19 13. 12 14. 16 15. 54 16. 35 20. 7 21. 31 21. 57 22. 43 23. 0 23. 59	21. 18. 25 19. 55 18. 45 14. 20 15. 0 13. 10 13. 55 12. 30 9. 50 10. 5 6. 10 2. 20 4. 0 1. 30 7. 0 5. 30 7. 20 6. 40 12. 0 9. 0 12. 0 8. 5 8. 30 9. 30 16. 15 14. 40 17. 50	Nov. 7 0. 0 0. 40 1. 15 2. 17 3. 3 3. 42 4. 31 6. 22 6. 46 7. 25 7. 58 9. 15 9. 26 10. 15 11. 0 12. 2 13. 6 14. 5 17. 47 19. 42 20. 36 21. 33 22. 2 22. 56 23. 45 23. 59	.0970 .0961 .0968 .0965 *** .0972 *** .0967 .0983 *** .0985 .0981 .0987 .0980 .0983 .0977 *** .0975 .0967 .0975 *** .0970 .0979 .0990 *** .0994 .0993 .0984 .0986 .0974 .0975 .0980	Nov. 7 0. 0 1. 29 5. 10 5. 40 5. 46 6. 30 12. 57 17. 30 23. 59	.02217 .02204 .01830 .01841 .01908 .01878 .01941 .02197 .02710	Nov. 7 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 18. 0 21. 0	49.0 50.0 52.9 53.6 53.0 52.0 46.0 45.0	50.7 51.2 53.2 54.0 53.4 52.5 48.0 47.0	Nov. 9 1. 0 2. 11 2. 52 3. 13 5. 40 6. 21 6. 45 7. 43 8. 59 15. 56 19. 4 20. 26 21. 40 21. 54 22. 29 22. 44 23. 30 23. 49	21. 19. 46* 18. 30 15. 0 15. 20 11. 40 11. 45 10. 55 10. 30 11. 0 11. 20 9. 40 7. 55 9. 15 8. 45 11. 10 11. 5 15. 15 15. 10 (†)	Nov. 9 1. 0 1. 47 3. 26 4. 0 5. 40 5. 56 8. 50 17. 10 19. 25 23. 0 23. 59	.0977 (†) (†) .0986* .0985 *** .0974 .0983 .0989 .0986 .0994 .1001 .1001 *** .0976 *** .0979	Nov. 9 1. 0 2. 0 9. 21 21. 22 23. 10 23. 48	(†) (†) .02756* {.02790 .02641 .02432 .02730 {.02732 .02691 .02690 (†)	Nov. 9 1. 0 3. 0 9. 0 21. 0	46.3 46.8 47.0 44.0	47.2 47.1 47.7 45.0	Nov. 8 0. 0 1. 29 3. 26 9. 38 10. 21 11. 24 12. 27 17. 12 17. 40 18. 10 20. 9 21. 27 22. 37	21. 17. 50 17. 0 14. 30 10. 0 10. 50 9. 20 11. 0 10. 50 13. 20 11. 50 8. 55 9. 10 13. 25 (†)	Nov. 8 0. 0 0. 36 2. 10 7. 7 10. 4 10. 30 17. 36 18. 13 19. 40	.0980 .0981 *** .0974 *** .0988 *** .0993 .0989 *** .0999 .1005 *** .1002 ***	Nov. 8 0. 0 1. 48 10. 54 22. 39	.02710 .02746 .02218 .02680 (†)	Nov. 8 0. 0 1. 0 3. 0 9. 0 21. 0	46.0 47.0 49.0 50.0 45.0	47.5 48.0 50.0 52.0 47.0	Nov. 8 21. 48 23. 59	6. 25 12. 30	14. 50 17. 40 20. 36 22. 17 23. 30	.1001 .1006 .1000 .0989 .0987 (†)	Nov. 8 1. 0 3. 0 9. 0 21. 0	46.0 48.0 47.8 44.2	47.0 48.0 47.9 45.5	Nov. 11 0. 0 1. 13 1. 41 2. 14 5. 27 6. 28 7. 21	21. 12. 30 17. 10 16. 0 16. 20 12. 0 3. 45 8. 40	Nov. 11 6. 50 21. 6	.02696 .02740 .02618 .02618 .02744 .02722 .02730	Nov. 11 6. 50 21. 6	46.0 41.7	47.0 43.1
Nov. 8 0. 0 1. 29 3. 26 9. 38 10. 21 11. 24 12. 27 17. 12 17. 40 18. 10 20. 9 21. 27 22. 37	21. 17. 50 17. 0 14. 30 10. 0 10. 50 9. 20 11. 0 10. 50 13. 20 11. 50 8. 55 9. 10 13. 25 (†)	Nov. 8 0. 0 0. 36 2. 10 7. 7 10. 4 10. 30 17. 36 18. 13 19. 40	.0980 .0981 *** .0974 *** .0988 *** .0993 .0989 *** .0999 .1005 *** .1002 ***	Nov. 8 0. 0 1. 48 10. 54 22. 39	.02710 .02746 .02218 .02680 (†)	Nov. 8 0. 0 1. 0 3. 0 9. 0 21. 0	46.0 47.0 49.0 50.0 45.0	47.5 48.0 50.0 52.0 47.0	Nov. 8 21. 48 23. 59	6. 25 12. 30	14. 50 17. 40 20. 36 22. 17 23. 30	.1001 .1006 .1000 .0989 .0987 (†)	Nov. 8 1. 0 3. 0 9. 0 21. 0	46.0 48.0 47.8 44.2	47.0 48.0 47.9 45.5	Nov. 11 0. 0 1. 13 1. 41 2. 14 5. 27 6. 28 7. 21	21. 12. 30 17. 10 16. 0 16. 20 12. 0 3. 45 8. 40	Nov. 11 6. 50 21. 6	.02696 .02740 .02618 .02618 .02744 .02722 .02730	Nov. 11 6. 50 21. 6	46.0 41.7	47.0 43.1																		
Nov. 11 0. 0 1. 13 1. 41 2. 14 5. 27 6. 28 7. 21	21. 12. 30 17. 10 16. 0 16. 20 12. 0 3. 45 8. 40	Nov. 11 6. 50 21. 6	.02696 .02740 .02618 .02618 .02744 .02722 .02730	Nov. 11 6. 50 21. 6	46.0 41.7	47.0 43.1																																		

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.				
Nov. 11 8. 7 8. 37 8. 55 9. 15 10. 52 14. 15 15. 30 15. 55 16. 28 19. 30 20. 41 23. 59	21. 10. 5 5. 0 8. 20 5. 15 10. 45 11. 20 8. 50 10. 0 9. 0 10. 10 8. 30 14. 15	Nov. 11 8. 0 8. 46 9. 10 9. 30 9. 47 10. 36 15. 6 17. 33 18. 37 19. 28 20. 7 20. 37 20. 54 21. 18 21. 30 21. 42 23. 30 23. 59	.0989 .0997 .1010 .1003 .1009 .0998 *** .1002 .1010 .0982 .0998 .1004 .0986 .0998 .0987 .0991 *** .1007 .1005	Nov. 11 23. 59	.02680				Nov. 14 2. 57 5. 10 6. 22 7. 9 7. 21 11. 30 13. 13 13. 36 14. 0 15. 13 16. 51 19. 17 21. 45 23. 26 23. 59	21. 15. 40 13. 0 13. 10 11. 45 12. 20 9. 20 10. 40 12. 50 9. 40 8. 50 10. 30 9. 20 11. 30 19. 20 18. 10	Nov. 14 2. 46 3. 37 4. 16 4. 36 6. 16 6. 37 7. 17 8. 0 8. 36 9. 25 12. 17 13. 5 13. 28 13. 50 14. 20 19. 30 23. 59	.0987 .0981 .0981 .0979 .0987 .0983 *** .0987 .0983 .0988 .0987 .0999 .0999 .1006 .1007 .1000 *** .1000 *** .0974			Nov. 14 12. 0 18. 0 21. 0	53. 0 52. 7 52. 8	52. 4 53. 1 53. 3				
Nov. 12 0. 0 1. 27 1. 45 2. 12 5. 49 8. 51 9. 13 16. 27 21. 18 23. 28 23. 44 23. 52 23. 59	21. 14. 15 16. 30 15. 20 15. 45 11. 50 10. 50 9. 20 11. 20 8. 30 15. 0 13. 30 15. 0 13. 50	Nov. 12 0. 0 2. 10 10. 53 4. 3 7. 17 9. 20 18. 46 20. 13 23. 3 23. 59	.1005 .0997 *** .0992 *** .1000 .0996 *** .1004 .1000 .0973 .0974	Nov. 12 0. 0 2. 13 10. 53 23. 59	.02680 .02667 .02109 .02140	Nov. 12 1. 0 3. 0 9. 0 21. 0	43. 5 46. 0 48. 5 47. 3	44. 3 46. 6 49. 0 48. 2	Nov. 15 0. 0 0. 12 0. 50 1. 2 2. 44 4. 43 6. 23 7. 29 8. 15 9. 28 9. 51 10. 40 11. 18 11. 45 12. 0 12. 43 12. 58 13. 30 14. 6 14. 29 14. 47 16. 11 16. 37 17. 10 18. 9 19. 43 21. 15 23. 14 23. 27 23. 59	21. 18. 10 17. 50 20. 10 19. 0 21. 20 15. 40 16. 25 12. 50 13. 45 10. 0 11. 45 6. 0 3. 10 6. 30 3. 45 6. 30 5. 5 5. 10 9. 30 5. 20 3. 45 9. 25 9. 30 12. 0 10. 50 12. 40 10. 0 17. 50 16. 45 18. 15	Nov. 15 0. 0 1. 25 4. 24 9. 45 14. 12 23. 59	.0974 *** .0974 *** .0963 *** .0970 *** .0968 *** .0980 .0979 .0989 .0979 .0993 .0983 .0986 .0976 .0983 .0979 *** .0987 .0989 *** .0986 *** .0997 *** .1004 *** .0999 *** .0979 *** .0973 .0971	Nov. 15 0. 0 1. 0 3. 0 9. 0 21. 8	52. 7 53. 3 54. 7 53. 0 46. 2	53. 5 53. 6 54. 2 52. 7 47. 0						
Nov. 13 0. 0 1. 2 1. 26 1. 39 5. 24 5. 45 6. 22 13. 30 16. 3 21. 33 23. 11 23. 59	21. 13. 50 17. 0 16. 40 17. 15 13. 20 11. 0 13. 10 10. 30 11. 10 9. 0 13. 30 17. 30	Nov. 13 0. 0 1. 28 7. 27 17. 48 23. 59	.0974 .0979 .0975 .0979 .0979 .0985 .0983 *** .0995 .0997 .0994 .0979 *** .0979	Nov. 13 0. 0 1. 28 7. 27 17. 48 23. 59	.02140 .02112 .01661 .01698 .01797	Nov. 13 1. 0 3. 0 9. 0 21. 0	49. 0 51. 7 53. 5 50. 4	49. 7 51. 4 53. 0 51. 0	Nov. 14 0. 0 0. 27 1. 26 2. 12 2. 38	21. 17. 30 15. 0 16. 30 16. 0 14. 30	Nov. 14 0. 0 4. 44 10. 0 15. 58 23. 59	.0979 *** .0983 .0979 ***	Nov. 14 0. 0 4. 44 10. 0 15. 58 23. 59	.01797 .01718 .01770 .02038 .01942	Nov. 14 0. 0 1. 0 3. 0 6. 0 9. 0	51. 3 52. 0 52. 8 53. 4 53. 7	52. 2 52. 7 52. 5 53. 5 53. 3	Nov. 14 19. 33 21. 49 23. 5 23. 59	.0999 *** .0979 *** .0973 .0971		

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.																																																	
Nov. 16 0. 0 0. 12 0. 20 1. 6 2. 0 2. 25 2. 41 5. 44 6. 54 9. 10 10. 13 11. 41 13. 37 13. 54 14. 30 17. 0 20. 25 22. 7 23. 59	21. 18. 15 17. 55 21. 45 18. 30 19. 20 17. 30 18. 10 13. 10 13. 50 12. 50 10. 10 12. 0 12. 5 15. 50 9. 50 11. 15 9. 0 10. 30 15. 0	Nov. 16 0. 0 3. 7 3. 38 3. 46 4. 16 6. 10 7. 0 7. 20 7. 40 8. 6 8. 30 9. 5 9. 28 10. 0 13. 17 13. 41 15. 44 17. 36 20. 7 23. 25 23. 59	'0971 '0971 '0976 '0972 '0971 '0983 *** '0979 *** '0983 '0979 '0982 '0979 '0984 '0980 '0984 *** '0987 '0991 *** '0986 '0992 '0991 *** '0977 '0977	Nov. 16 0. 0 2. 8 7. 4 13. 48 14. 14 21. 56 23. 59	'02671 '02674 '02245 '02111 '02093 '02300 '02325	Nov. 16 1. 0 3. 0 9. 0 21. 0	48. 0 49. 8 51. 8 48. 2	48. 0 50. 7 51. 6 49. 6	Nov. 17 0. 0 0. 38 0. 45 1. 12 1. 57 3. 40 5. 27 6. 11 6. 30 6. 51 7. 14 7. 26 7. 30 7. 43 7. 50 7. 59 8. 26 8. 44 14. 58 16. 17 16. 39 17. 59 18. 52 19. 40 20. 11 20. 54 21. 1 21. 13 21. 28 21. 51	21. 15. 0 15. 10 14. 10 17. 0 17. 30 13. 20 13. 30 15. 10 14. 55 13. 45 10. 30 10. 15 11. 40 10. 35 11. 0 10. 0 11. 20 13. 20 8. 20 10. 40 9. 5 11. 15 9. 30 11. 0 9. 20 10. 45 9. 0 11. 0 9. 50 10. 40	Nov. 17 0. 0 5. 57 10. 7 15. 29 19. 42 23. 59 18. 20 18. 47 20. 17 20. 54 21. 8 22. 11 23. 17 23. 59	'0977 *** '0976 '0983 *** '0992 '0983 '0993 '0993 '0989 '0997 '0991 '0990 '0993 '0992 '1000 '0997 '1000 *** '1000 '0999 '1000 '0990 '0995 *** '0987 *** '0993 '0987	Nov. 17 0. 0 5. 57 10. 7 15. 29 19. 42 23. 59	'02325 '02200 '02391 '02553 '02790 '02748	Nov. 17 1. 0 3. 0 9. 0 22. 15	48. 2 50. 8 46. 7 41. 8	49. 5 51. 2 47. 5 44. 3	Nov. 17 0. 0 0. 52 1. 44 1. 54 2. 39 2. 59 7. 57 8. 12 9. 58	21. 16. 0 17. 40 16. 50 17. 30 17. 15 16. 10 13. 50 12. 30 12. 20	Nov. 20 0. 0 2. 26 5. 38 7. 36 8. 2 8. 13 8. 50 9. 10	'0975 '0974 *** '0979 '0975 '0985 '0976 '0974 '0981	Nov. 20 0. 0 2. 30 6. 37 7. 56 13. 10 19. 21 23. 59	'02237 '02120 '01700 '01629 '01650 '01864 '02200	Nov. 20 1. 0 3. 0 9. 0 21. 0	46. 8 49. 3 51. 0 44. 3	47. 3 50. 1 50. 5 45. 4	Nov. 17 0. 0 0. 12 0. 20 1. 6 2. 0 2. 25 2. 41 5. 44 6. 54 9. 10 10. 13 11. 41 13. 37 13. 54 14. 30 17. 0 20. 25 22. 7 23. 59	21. 15. 10 13. 30 15. 10	Nov. 17 22. 17 23. 29 23. 59	'0987 '0985 '0989 '0982 *** '0983 '0973 '0986 *** '0997 '0993 '1001 *** '0997 *** '1006 *** '0984	Nov. 18 0. 0 0. 49 1. 10 1. 28 1. 42 2. 4 2. 14 2. 57 9. 41 21. 4 21. 51 22. 2 22. 38 23. 38 23. 59	21. 15. 10 17. 30 20. 15 19. 0 20. 20 20. 0 20. 50 16. 25 11. 40 9. 10 12. 10 11. 50 15. 30 17. 50 17. 20	Nov. 18 0. 0 0. 38 1. 6 1. 30 2. 7 2. 40 3. 17 5. 26 5. 47 6. 7 7. 6 18. 47 23. 59	'0987 '0985 '0989 '0982 *** '0983 '0973 '0986 *** '0997 '0993 '1001 *** '0997 *** '1006 *** '0984	Nov. 18 0. 0 2. 51 8. 21 11. 24 19. 24 23. 59	'02748 '02780 '02709 '02757 '02750 '02729	Nov. 18 9. 5 21. 0	44. 3 42. 0	44. 2 43. 0	Nov. 17 0. 0 0. 38 0. 45 1. 12 1. 57 3. 40 5. 27 6. 11 6. 30 6. 51 7. 14 7. 26 7. 30 7. 43 7. 50 7. 59 8. 26 8. 44 14. 58 16. 17 16. 39 17. 59 18. 52 19. 40 20. 11 20. 54 21. 1 21. 13 21. 28 21. 51	21. 17. 20 17. 0 18. 10 17. 30 19. 40 17. 10 16. 15 12. 30 12. 10 11. 10 13. 20 11. 15 10. 20 16. 0 15. 6 15. 38 16. 37 18. 6 19. 37 23. 59	Nov. 19 0. 0 1. 21 1. 37 2. 3 2. 12 2. 43 6. 57 10. 48 16. 15 16. 43 17. 21 17. 57 21. 56 23. 59	'0984 '0979 '0976 '0981 '0979 '0987 *** '0981 *** '0984 *** '0979 *** '0987 '0990 '0988 *** '0994 '0992 *** '0975	Nov. 19 0. 0 1. 29 12. 24 23. 59	'02729 '02675 '01920 '02237	Nov. 19 1. 0 3. 0 9. 0 21. 0	44. 0 46. 8 49. 0 44. 3	45. 0 47. 1 49. 0 45. 1	Nov. 17 0. 0 0. 38 0. 45 1. 12 1. 57 3. 40 5. 27 6. 11 6. 30 6. 51 7. 14 7. 26 7. 30 7. 43 7. 50 7. 59 8. 26 8. 44 14. 58 16. 17 16. 39 17. 59 18. 52 19. 40 20. 11 20. 54 21. 1 21. 13 21. 28 21. 51	21. 15. 0 15. 10 14. 10 17. 0 17. 30 13. 20 13. 30 15. 10 14. 55 13. 45 10. 30 10. 15 11. 40 10. 35 11. 0 10. 0 11. 20 13. 20 8. 20 10. 40 9. 5 11. 15 9. 30 11. 0 9. 20 10. 45 9. 0 11. 0 9. 50 10. 40	Nov. 17 0. 0 5. 57 10. 7 15. 29 19. 42 23. 59 18. 20 18. 47 20. 17 20. 54 21. 8 22. 11 23. 17 23. 59	'0977 *** '0976 '0983 *** '0992 '0983 '0993 '0993 '0989 '0997 '0991 '0990 '0993 '0992 '1000 '0997 '1000 *** '1000 '0999 '1000 '0990 '0995 *** '0987 *** '0993 '0987	Nov. 17 0. 0 5. 57 10. 7 15. 29 19. 42 23. 59	'02325 '02200 '02391 '02553 '02790 '02748	Nov. 17 1. 0 3. 0 9. 0 22. 15	48. 2 50. 8 46. 7 41. 8	49. 5 51. 2 47. 5 44. 3	Nov. 17 0. 0 0. 52 1. 44 1. 54 2. 39 2. 59 7. 57 8. 12 9. 58	21. 16. 0 17. 40 16. 50 17. 30 17. 15 16. 10 13. 50 12. 30 12. 20	Nov. 20 0. 0 2. 26 5. 38 7. 36 8. 2 8. 13 8. 50 9. 10	'0975 '0974 *** '0979 '0975 '0985 '0976 '0974 '0981	Nov. 20 0. 0 2. 30 6. 37 7. 56 13. 10 19. 21 23. 59	'02237 '02120 '01700 '01629 '01650 '01864 '02200	Nov. 20 1. 0 3. 0 9. 0 21. 0	46. 8 49. 3 51. 0 44. 3	47. 3 50. 1 50. 5 45. 4

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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Nov. 24 9. 0	21. 10. 20	Nov. 24 15. 30	*1002						Nov. 26 8. 37	21. 11. 20	Nov. 26 2. 20	*0986					
9. 21	10. 30	16. 15	*1007						11. 15	10. 45	2. 37	*0978					
9. 35	9. 50	20. 30	*1010						13. 12	12. 30	3. 0	*0979					
12. 28	10. 40		***						14. 9	11. 0	4. 7	*0989					
12. 47	9. 55	23. 59	*0997						14. 51	12. 40	7. 11	*0993					
13. 44	12. 10								15. 40	11. 20	7. 34	*0989					
14. 12	15. 20								15. 55	12. 10		***					
14. 52	11. 50								16. 11	11. 50	16. 10	*1007					
15. 25	12. 10								16. 21	12. 50	16. 30	*1013					
16. 58	10. 10								16. 54	12. 10	16. 46	*1010					
19. 12	10. 20								17. 11	13. 20		***					
19. 45	11. 40								17. 43	13. 0	17. 40	*1014					
21. 2	8. 50								18. 0	11. 20		***					
21. 12	9. 10								18. 42	11. 40	19. 56	*0998					
21. 26	8. 40								19. 13	10. 50	20. 20	*1002					
23. 43	12. 40									***		***					
23. 54	12. 20								21. 6	10. 0	22. 20	*0990					
23. 59	13. 0									***	22. 46	*0979					
									22. 15	12. 0	23. 17	*0986					
Nov. 25 0. 0	21. 13. 5	Nov. 25 0. 0	*0997	Nov. 25 0. 0	*02580	Nov. 25 10. 9	47. 0	48. 0	22. 30	11. 30	23. 35	*0977					
1. 6	16. 50	1. 5	*0992	2. 40	*02631	21. 0	44. 0	45. 0	23. 16	16. 50	23. 47	*0981					
1. 29	17. 20	2. 18	*0984	6. 0	*02584				23. 37	15. 30	23. 59	*0979					
2. 22	15. 30	3. 9	*0988	13. 58	*02671				23. 50	16. 20							
2. 59	16. 40	3. 25	*0982	23. 59	*02829				23. 59	16. 15							
3. 50	14. 15	3. 40	*0989														
5. 26	13. 20		***						Nov. 27 0. 0	21. 16. 15	Nov. 27 0. 0	*0979	Nov. 27 0. 0	Nov. 27 1. 0	50. 3	50. 8	
5. 54	8. 25	5. 30	*0998						0. 51	16. 0		***	1. 59	*02350	3. 0	52. 6	
6. 21	7. 0	5. 45	*0990						1. 12	17. 40	0. 30	*0975	5. 12	*02002	9. 0	52. 7	
6. 45	11. 0	5. 56	*0998						1. 30	17. 10	0. 47	*0979	7. 30	*01825	21. 0	47. 8	
6. 57	10. 30	6. 6	*0994						2. 37	18. 5	1. 3	*0978	11. 37	*01770		48. 7	
7. 30	11. 45	6. 23	*0999						2. 50	19. 0	1. 40	*0982	22. 13	*02080			
8. 18	7. 40	6. 46	*0990						3. 15	17. 0	2. 17	*0983	23. 59	*02147			
8. 42	9. 50	7. 36	*0998						4. 21	14. 50		***					
9. 15	8. 45		***						4. 51	15. 0	2. 48	*0975					
10. 52	8. 50	17. 10	*1010						5. 1	13. 40		***					
11. 15	8. 0	17. 57	*1013						5. 15	14. 0	3. 45	*0974					
11. 42	8. 50	20. 0	*1007						5. 44	7. 20	4. 20	*0981					
12. 14	8. 30	21. 30	*1009						6. 40	9. 50		***					
15. 43	11. 40	22. 40	*0995						6. 57	6. 30	4. 47	*0979					
16. 45	9. 45		***						7. 22	13. 40	5. 13	*0987					
19. 16	9. 30	23. 59	*0990						7. 37	10. 0	5. 23	*0981					
21. 37	13. 40								7. 42	10. 50	5. 46	*0989					
21. 46	15. 30								7. 55	8. 30	6. 0	*0986					
22. 45	17. 20								8. 33	10. 5	6. 18	*0994					
23. 35	20. 40								8. 51	9. 40	6. 46	*0981					
	(†)								9. 12	10. 50	6. 52	*0981					
									9. 27	9. 35	7. 7	*0989					
Nov. 26 0. 52	21. 17. 40	Nov. 26 0. 0	*0990	Nov. 26 0. 0	*02829	Nov. 26 1. 0	46. 3	46. 8	12. 0	11. 40	7. 26	*0976					
1. 45	19. 0	0. 26	*0989	2. 21	*02810	3. 0	48. 3	48. 6	12. 30	10. 50	7. 33	*0978					
2. 23	11. 40		***	9. 22	*02408	9. 0	48. 5	48. 5	13. 28	12. 10	7. 45	*0973					
2. 45	17. 20	1. 0	*0980	17. 51	*02300	21. 0	47. 3	47. 7	20. 26	10. 20	7. 52	*0979					
3. 10	17. 45	1. 18	*0988	23. 59	*02471				21. 15	13. 0	8. 3	*0974					
4. 0	14. 30	1. 40	*0978						21. 36	11. 45		***					
7. 14	11. 40	1. 46	*0973						23. 6	14. 50	9. 0	*0988					
7. 30	12. 20		***						23. 21	17. 10	18. 30	*1001					
									23. 37	16. 55		***					
										(†)	19. 47	*0998					

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
		Nov.27															
		21. 20	*0984						Nov.29	21. 8. 45	7. 7	*0986					
		21. 52	*0988 ***						6. 43	10. 0	7. 20	*0979					
		23. 2	*0976 ***						6. 48	9. 0	8. 15	*0982					
		23. 59	*0973						6. 57	9. 30	8. 43	*0985 ***					
Nov.28		Nov.28		Nov.28		Nov.28			7. 0	7. 20	11. 22	*0995					
	(†)	0. 0	*0973	0. 0	*02147	0. 0	49. 0	49. 1	7. 25	7. 40	11. 45	*0991 ***					
0. 10	21. 17. 30	1. 5	*0977 ***	1. 30	*02140	1. 0	50. 0	50. 0	7. 31	6. 0	3. 20	*0991 ***					
0. 18	18. 10			6. 0	*01857	3. 0	51. 7	51. 5	7. 53	8. 30	12. 40	*0995					
0. 37	17. 10	4. 45	*0971	9. 42	*01750	6. 0	52. 0	51. 0	8. 16	4. 30	12. 40	*0995					
1. 26	16. 30	5. 32	*0976	13. 51	*01767	9. 0	52. 0	51. 0	8. 30	7. 20	13. 15	*1005 ***					
1. 49	18. 0	5. 47	*0973	22. 41	*02091	12. 0	51. 5	51. 0	8. 16	6. 45	15. 7	*0998 ***					
2. 25	16. 40	6. 18	*0980	23. 59	*02057	18. 0	48. 0	48. 0	10. 0	7. 50	15. 7	*0998 ***					
2. 59	17. 15	7. 2	*0975			21. 10	48. 0	48. 0	10. 12	8. 20	16. 35	*1006					
3. 20	16. 0	8. 15	*0982 ***						10. 40	6. 40	16. 35	*1006					
3. 35	16. 10								10. 56	9. 20	17. 6	*1001					
4. 28	12. 40	13. 16	*0993						11. 54	8. 0	17. 42	*1006 ***					
5. 30	14. 10	13. 38	*0999						12. 27	9. 30	20. 37	*0993 ***					
5. 57	12. 20	14. 5	*0991 ***						12. 57	8. 10	20. 37	*0993 ***					
6. 58	14. 0	18. 47	*1005						13. 10	8. 0	22. 13	*0996 ***					
9. 21	11. 15	21. 13	*0991 ***						13. 28	8. 50	22. 13	*0996 ***					
11. 11	11. 30	23. 7	*0984						13. 40	7. 40	23. 59	*0981					
13. 21	10. 20	23. 59	*0986						13. 55	9. 20	23. 59	*0981					
13. 40	11. 50								14. 28	9. 20							
14. 0	8. 0								16. 5	7. 50							
14. 31	10. 0								16. 44	11. 45							
14. 56	8. 20								17. 35	9. 30							
15. 17	9. 40								18. 0	9. 10							
15. 35	8. 30								18. 7	10. 20							
15. 48	9. 45								18. 14	8. 30							
16. 9	8. 45								19. 25	7. 40							
17. 13	9. 20								19. 50	8. 40							
17. 50	11. 50								20. 40	8. 10							
18. 51	9. 30								20. 49	9. 30							
21. 40	9. 0								21. 13	9. 20							
22. 12	10. 30								21. 36	10. 45							
22. 30	12. 30								21. 55	14. 0							
22. 53	11. 20								23. 37	15. 0							
23. 51	14. 30								23. 59	18. 15							
23. 59	14. 20																
Nov.29		Nov.29		Nov.29		Nov.29			Nov.30	21. 18. 20	0. 0	*0981	0. 0	*01991	1. 0	50. 6	51. 0
0. 0	21. 14. 20	0. 0	*0986 ***	0. 0	*02057	0. 0	49. 2	49. 1	0. 15	15. 30	0. 20	*0972	1. 19	*02003	3. 0	53. 0	52. 7
0. 13	15. 30			6. 17	*01906	1. 0	50. 0	49. 8	0. 30	15. 45	0. 47	*0982 ***	4. 36	*01781	9. 0	54. 0	53. 5
1. 10	14. 50	1. 47	*0974	9. 42	*01710	3. 0	51. 2	50. 4	0. 58	18. 45			5. 5	{*01810 *02038	21. 0	50. 0	50. 7
1. 22	17. 10	2. 4	*0982	13. 49	*01704	9. 0	52. 5	53. 0	1. 45	16. 0	2. 33	*0980	6. 20	*01970			
1. 36	15. 20	3. 43	*0977	18. 22	*01820	21. 0	48. 8	49. 0	2. 23	15. 30	3. 6	*0973	11. 12	*01961			
2. 52	15. 20	4. 15	*0984	23. 59	*01991				2. 44	16. 30	3. 16	*0974	13. 7	*02032			
3. 27	12. 45	4. 18	*0982						3. 33	14. 40	3. 45	*0969 ***	18. 24	*02382			
4. 40	13. 30	4. 40	*0983						4. 26	15. 0			23. 0	*02590			
4. 50	12. 45	5. 0	*0978 ***						5. 29	10. 45	6. 16	*0986	23. 59	*02574			
5. 7	12. 50								6. 0	10. 0	6. 40	*0985 ***					
5. 22	10. 45	5. 50	*0978						6. 26	5. 30							
5. 30	10. 50	6. 16	*0990						6. 42	6. 30	8. 30	*0989 ***					
5. 51	8. 20	6. 30	*0979 ***						6. 49	6. 0							
6. 7	12. 50								7. 19	10. 45	11. 46	*0992 ***					
									7. 39	11. 0							
									7. 51	12. 0	14. 40	*0996 ***					
									9. 49	11. 15							
									10. 0	10. 0	16. 26	*0998					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Nov. 30 h m 10. 43 21. 10. 45 11. 10 11. 42 12. 13 12. 45 13. 8 13. 51 14. 29 15. 24 16. 7 16. 29 17. 30 20. 44 21. 36 23. 37 23. 59		Nov. 30 h m 17. 16 20. 3 23. 59	*1005 *1001 *** *0977														
Dec. 1 o. 0 0. 20 0. 37 1. 5 2. 21 2. 28 3. 40 4. 44 10. 8 10. 26 10. 57 11. 13 12. 30 12. 42 13. 29 13. 43 17. 21 18. 40 20. 39 22. 34	21. 15. 30 17. 40 17. 0 18. 40 17. 40 18. 30 15. 5 13. 20 9. 40 11. 30 9. 20 11. 0 10. 0 10. 50 9. 15 10. 5 10. 20 11. 20 9. 20 10. 50 (†)	Dec. 1 o. 0 0. 47 1. 15 2. 0 8. 18 18. 26 18. 56 21. 13 23. 59	*0977 *0985 *0986 *0989 *** *1006 *** *1013 *1015 *1009 *0999	Dec. 1 o. 0 6. 51; 15. 55 23. 59	*02574 *02171 *02300 *02536	Dec. 1 h m 1. 0 3. 0 9. 0 22. 30	53. 0 54. 0 52. 7 49. 4	52. 2 53. 2 52. 4 51. 0	Dec. 3 o. 8 0. 29 0. 41 1. 42 1. 51 3. 45 4. 22 4. 59 5. 30 6. 37 9. 11 9. 39 9. 54 10. 13 10. 40 12. 12 14. 53 20. 10 22. 42 23. 28	(†) 21. 12. 30 12. 0 15. 0 16. 5 14. 40 14. 30 15. 50 13. 50 15. 0 13. 0 11. 40 8. 0 11. 20 10. 0 11. 20 10. 25 11. 20 10. 30 14. 50 14. 10 (†)	Dec. 3 o. 0 0. 48 2. 6 4. 36 4. 43 5. 46 6. 33 10. 13 10. 30 10. 46 11. 13 *** *1001 *** *1010 *1005 *0992	Dec. 3 o. 0 3. 42 13. 46; 22. 13 23. 59	*02771 *02670 *02210 *02433 *02430	Dec. 3 h m 1. 0 3. 0 9. 0 21. 0	50. 0 51. 4 53. 3 50. 7	50. 0 51. 0 52. 6 51. 3	
Dec. 2 10. 13 21. 8	21. 5. 45* 8. 31*	Dec. 2 o. 0 0. 18 0. 56 1. 40 2. 17 2. 30 2. 45 2. 56 3. 45 6. 43 9. 42 11. 50	*0999 *0999 *0991 *0974 *** *0982 *0977 *0982 *0981 *0994 *** *1006 *** *0999 *** *1010 ***	Dec. 2 o. 0 6. 10 10. 44 19. 37 23. 59	*02536 *02571 *02653 *02688 *02771	Dec. 2 h m 10. 13 21. 8	49. 0 49. 0	50. 0 49. 7	Dec. 4 o. 43 0. 59 1. 26 3. 53 10. 47 10. 54 11. 12 20. 26 23. 50 23. 59	(†) 21. 13. 0 13. 20 14. 30 14. 15 10. 20 11. 40 9. 30 9. 40 15. 40 14. 40	Dec. 4 o. 0 1. 15 3. 0 5. 36 10. 58 11. 17 11. 46 *** *1010 *** *0990 *** *0989	Dec. 4 o. 0 12. 4; 23. 11 23. 59	*02430 *02051 *02304 *02312	Dec. 4 h m 1. 0 3. 0 9. 10 21. 0	52. 2 53. 4 53. 7 51. 0	52. 1 53. 2 53. 7 51. 4	
Dec. 5 o. 0 0. 52 2. 12 4. 42 7. 39	21. 14. 40 14. 0 17. 20 13. 50 14. 30	Dec. 5 o. 0 1. 10 2. 50 4. 23 7. 39	*0989 *1000 *0995 *1002 ***	Dec. 5 o. 0 2. 6 8. 27 14. 45 22. 11	*02312 *02270 *01932 *01973 *02212	Dec. 5 h m o. 0 1. 0 3. 0 6. 0 9. 0	51. 9 52. 3 53. 8 55. 5 55. 6	52. 0 52. 6 53. 7 54. 5 53. 9									

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.																																	
Dec. 5 10. 51 12. 43 13. 30 20. 55 23. 59	21. 13. 15 10. 45 12. 0 9. 50 15. 30	Dec. 5 8. 43 12. 38 17. 10 21. 20 23. 59	*0998 *** *0996 *** *1007 *1003 *** *0990	Dec. 5 23. 59	*02242	Dec. 5 12. 0 18. 0 21. 0	54. 5 52. 6 52. 7	53. 5 52. 5 52. 5	Dec. 5 3. 23 3. 33 3. 45 4. 34 5. 15 5. 43 5. 55 6. 27 7. 51 9. 14 11. 23 13. 45 15. 42 16. 10 16. 54 17. 0 17. 30 20. 22 20. 55 21. 1 21. 11 21. 15 22. 18 23. 19 23. 48 23. 59	21. 17. 30 15. 30 22. 30 14. 0 14. 20 17. 30 15. 5 15. 10 11. 0 10. 10 11. 0 7. 0 8. 10 9. 40 9. 20 12. 0 7. 20 9. 0 12. 20 10. 50 12. 0 10. 40 16. 20 18. 40 17. 10 18. 15	Dec. 9 2. 45 3. 17 4. 0 4. 7 4. 26 5. 0 5. 25 5. 44 7. 20 8. 18 10. 5 10. 42 11. 46 12. 30 13. 21 16. 37 17. 45 19. 27 21. 7 22. 5 22. 33	*0997 *1003 *1001 *1012 *1003 *1013 *** *1012 *1005 *1016 *1018 *** *1014 *1023 *** *1018 *1005 *1010 *** *1011 *1024 *** *1025 *1013 *0995 *0994 (†)	Dec. 6 0. 0 0. 14 0. 49 1. 12 2. 13 3. 53 6. 11 20. 52 23. 59	21. 15. 30 13. 30 13. 45 16. 20 14. 20 13. 40 10. 20 9. 50 15. 30	Dec. 6 0. 0 1. 0 1. 42 2. 16 2. 36 7. 15 12. 15 17. 17 19. 52 22. 3 23. 59	*0990 *0999 *0995 *0998 *0994 *1006 *1008 *1013 *1011 *1000 *** *0998	Dec. 6 0. 0 9. 10 22. 29 23. 59	*02242 *01940 *02210 *02224	Dec. 6 0. 0 1. 0 3. 0 9. 0 21. 0	53. 7 54. 3 55. 8 56. 2 52. 8	53. 1 53. 7 54. 5 54. 5 52. 7	Dec. 6 0. 0 0. 37 1. 12 2. 30 3. 10 10. 11 21. 12 23. 21 23. 52 23. 59	21. 15. 30 14. 0 15. 55 17. 0 15. 30 12. 10 10. 45 15. 45 16. 0 15. 15	Dec. 7 0. 0 0. 26 0. 50 2. 32 3. 15 3. 56 18. 6 19. 50 23. 59	*0998 *0995 *0999 *0991 *0997 *0994 *1011 *1010 *0994	Dec. 7 0. 0 3. 12 7. 29 12. 0 14. 40 23. 59	*02224 *02140 *01827 {*01744 *01925 *01922 *02210	Dec. 7 1. 0 3. 0 9. 0 21. 8	54. 7 56. 1 56. 9 52. 0	53. 9 55. 0 55. 7 52. 2	Dec. 7 0. 0 0. 10 0. 24 0. 37 1. 27 7. 0 9. 26 15. 31 15. 57 16. 15 16. 45 20. 49 21. 45 23. 59	21. 15. 15 14. 30 14. 50 16. 30 17. 0 12. 10 13. 30 8. 40 10. 20 9. 50 11. 0 9. 50 11. 5 16. 0	Dec. 8 0. 0 1. 47 4. 13 7. 50 9. 20 18. 46 20. 17 20. 45 22. 15 22. 47 23. 18 23. 59	*0994 *0993 *0993 *1011 *1001 *** *1017 *** *1014 *1011 *1013 *0994 *1003 *0997	Dec. 8 0. 0 0. 41 3. 17 5. 11 6. 52 8. 0 8. 22 13. 41 23. 59	*02210 *02200 *02117 *01946 *01867 *01861 *01900 *01911 *02273	Dec. 8 1. 0 3. 0 9. 0 21. 12	54. 0 54. 7 55. 3 51. 0	54. 0 55. 0 54. 6 51. 0	Dec. 8 0. 0 0. 40 1. 45 2. 9 2. 45 3. 10	21. 16. 0 18. 0 15. 30 18. 20 17. 25 15. 20	Dec. 9 0. 0 1. 29 4. 41 11. 45 23. 59	*02273 *02306 *02240 *02279 *02612	Dec. 9 6. 41 21. 0	51. 4 58. 0	51. 2 58. 3	Dec. 9 8. 10 8. 21 8. 35 8. 43 8. 58 9. 10	21. 56. 0 21. 4. 0 20. 59. 30 21. 1. 30 20. 52. 10 21. 2. 30	Dec. 9 6. 40 7. 38 8. 0 8. 12 8. 37	*0968 *** *0967 *0976 *0998 *0987

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Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Dec. 10 h m s 9. 41 21. 1. 40		Dec. 10 h m s 8. 46	'0964						Dec. 11 h m s 3. 18 21. 16. 35		Dec. 11 h m s 4. 15	'0983					
9. 47 20. 59. 30		9. 5	'1001						3. 42 17. 30		4. 40	'0988					
9. 56 21. 2. 20		9. 17	'0966						4. 17 13. 15		5. 0	'0977					
10. 11 20. 59. 15		9. 37	'0977						4. 42 15. 0		5. 47	'0994					
10. 29 21. 2. 30		9. 43	'0972						4. 55 13. 40		6. 35	'0988					
10. 42 1. 15		9. 50	'0980						5. 40 12. 40			***					
10. 53 21. 1. 10		10. 5	'0972						6. 50 13. 45		8. 2	'0999					
11. 25 20. 53. 40		***	***						7. 42 11. 20		8. 21	'0992					
11. 45 59. 20		10. 40	'0978						8. 42 10. 40		9. 47	'0992					
12. 7 20. 57. 40		10. 46	'0974						8. 56 11. 30		10. 20	'1011					
12. 39 21. 7. 0		11. 0	'0981						10. 9 0. 20		10. 40	'0991					
13. 15 20. 51. 0		11. 7	'0974						10. 29 7. 30		11. 6	'1003					
13. 19 51. 30		11. 16	'0976						10. 40 7. 30		11. 33	'0998					
13. 27 51. 5		11. 40	'0964						10. 55 10. 40		12. 38	'0999					
13. 56 20. 54. 30		11. 52	'0969						11. 18 8. 30		17. 36	'1007					
14. 15 21. 4. 30		12. 15	'0958						11. 59 12. 10		20. 0	'1003					
14. 30 9. 0		12. 36	'0974						20. 16 9. 50		22. 15	'0991					
14. 58 2. 20		13. 4	'0987						23. 4 16. 0		23. 59	'0991					
15. 20 15. 30		13. 31	'0975						23. 59 16. 30								
15. 37 12. 30		13. 42	'0976														
15. 45 14. 20		14. 8	'0965														
16. 30 3. 30		14. 17	'0986														
16. 42 10. 50		14. 42	'0999														
16. 59 10. 30		15. 0	'0966														
17. 50 15. 50		16. 16	'1023														
17. 58 15. 20		***	***														
18. 12 18. 20		17. 13	'1007														
18. 31 18. 5		17. 45	'0985														
18. 52 14. 20		18. 11	'0997														
19. 8 17. 30		18. 33	'0979														
19. 24 15. 20		***	***														
19. 42 21. 10		19. 46	'0985														
20. 25 13. 40		***	***														
20. 54 19. 0		20. 17	'0975														
21. 9 18. 30		***	***														
21. 19 19. 30		21. 26	'0974														
21. 45 17. 5		21. 35	'0987														
21. 58 19. 30		21. 42	'0982														
22. 11 16. 0		21. 50	'0989														
22. 27 21. 0		22. 6	'0983														
***		22. 33	'0982														
23. 42 18. 55		22. 45	'0977														
23. 59 22. 10		23. 3	'0981														
		23. 8	'0977														
		23. 15	'0983														
		(†)	(†)														
Dec. 11 o o 0. 0	21. 22. 10	Dec. 11 (†)	(†)	Dec. 11 o o	'02550	Dec. 11 1. 0	48. 2	48. 6	Dec. 11 o. 40	21. 15. 30	Dec. 11 1. 47	'0997	Dec. 11 o. 0	'02523	Dec. 11 1. 0	48. 2	48. 5
0. 17	20. 30	1. 42	'0985	2. 12	'02608	3. 0	49. 6	50. 3	2. 37	16. 10	5. 5	'1003	6. 41	'02170	3. 0	49. 3	49. 8
0. 25	21. 40	2. 5	'0978	12. 14.	'02113	9. 0	51. 6	51. 5	6. 13	12. 20	7. 0	'1006	11. 27	'02106	9. 0	49. 7	49. 5
0. 31	20. 30	2. 17	'0988	21. 27	'02410	21. 0	47. 0	47. 7	7. 12	13. 10	7. 21	'1009	11. 52	'02180	21. 0	43. 5	45. 5
0. 41	21. 25	2. 42	'0985	23. 59	'02469				7. 43	10. 5	7. 42	'1005	13. 50	'02210			
0. 53	19. 40	2. 50	'0978						8. 21	12. 5	8. 13	'1005	22. 37	'02695			
1. 54	19. 30	3. 36	'0988						10. 44	9. 5	8. 40	'1006	23. 59	'02674			
2. 13	14. 35	3. 52	'0977						15. 10	11. 45	9. 17	'1002					
2. 43	19. 10	4. 4	'0976						20. 40	8. 40	***	***					
									23. 59	15. 15	17. 34	'1027					

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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.	
Dec. 17 4. 36 5. 6 6. 41 8. 15 9. 16 9. 42 11. 39 11. 58 12. 39 13. 43 13. 55 14. 21 14. 47 17. 35 18. 10 19. 0 20. 35 22. 0 22. 30 22. 57 23. 22 23. 43 23. 59	21. 13. 30 15. 15 14. 20 11. 10 11. 50 10. 30 11. 30 13. 10 8. 25 10. 20 9. 15 9. 10 11. 50 11. 30 10. 5 11. 10 10. 50 13. 50 17. 30 18. 0 21. 20 18. 40 18. 55	Dec. 17 3. 27 5. 3 5. 18 6. 22 9. 28 9. 45 11. 38 12. 0 12. 17 14. 10 17. 34 20. 20 21. 41 21. 48 22. 56 23. 9 23. 33 23. 59	.0989 .0994 .0991 .0995 *** .0991 .0995 *** .1001 .1008 .1003 *** .0999 .1011 .1010 .1002 .1007 .1004 .1009 .1001 .1002	Dec. 17 23. 59	.02869				Dec. 17 23. 59	.02869								
Dec. 18 0. 0 0. 26 1. 0 1. 7 1. 54 3. 10 4. 18 6. 55 7. 25 7. 44 8. 19 9. 9 12. 25 12. 54 13. 46 19. 45 21. 0	21. 18. 55 20. 35 (†) 21. 1* 18. 40 16. 50 16. 10 16. 50 12. 40 10. 50 11. 20 7. 45 12. 10 10. 25 7. 0 10. 10 11. 0 (†) 10. 58*	Dec. 18 0. 0 1. 26 2. 8 3. 17 4. 35 7. 3 7. 17 7. 56 8. 30 9. 23 10. 45 12. 26 13. 35 15. 14 19. 51	.1002 .0998 .1004 .1008 .1000 *** .1004 .1001 .1005 .1011 .1007 *** .1005 .1015 .1010 *** .1010 *** .1019 (†)	Dec. 18 0. 0 2. 14 10. 15: 19. 55 21. 51 23. 6 23. 25 23. 59	.02869 .02890 .02470 .02927 {.02930 .02968 .03000 .02978 .02980	Dec. 18 1. 0 3. 0 9. 0 21. 0	40.0 42.2 43.0 34.5	41.0 43.0 43.0 37.0	Dec. 18 1. 0 3. 0 9. 0 21. 0	.02869 .02890 .02470 .02927 {.02930 .02968 .03000 .02978 .02980								
Dec. 19 0. 38 0. 54 1. 22 1. 37 1. 54 3. 15 3. 30 3. 55 4. 29	21. 19. 0 17. 45 19. 30 18. 45 19. 40 16. 45 17. 30 16. 50 18. 45	Dec. 19 1. 0 1. 45 2. 50 3. 44 3. 50 4. 5 4. 44 5. 7	.1018* .1011 .1008 .1013 .1009 .1014 *** .1005 .0988	Dec. 19 0. 0 4. 54 8. 49 15. 5 18. 52 21. 30 23. 18 23. 59	.02980 .02622 .02340 .02200 .02250 .02330 .02512 .02540	Dec. 19 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 18. 0 21. 5	36.0 37.6 40.2 42.4 42.5 42.7 35.0 38.0	38.0 39.0 41.0 42.6 42.5 42.8 35.3 39.0	Dec. 19 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 18. 0 21. 5	.02980 .02622 .02340 .02200 .02250 .02330 .02512 .02540								
Dec. 19 5. 0 5. 21 5. 45 6. 14 6. 30 6. 54 7. 21 9. 27 10. 29 11. 52 12. 29 12. 39 12. 55 13. 15 13. 30 13. 42 14. 9 14. 42 16. 0 16. 59 17. 51 18. 19 18. 44 19. 37	21. 8. 50 13. 50 15. 10 15. 20 14. 0 14. 50 13. 40 14. 20 11. 20 13. 15 11. 15 11. 50 7. 0 7. 40 6. 25 8. 55 5. 20 14. 0 9. 0 12. 10 10. 45 12. 0 11. 20 14. 30 ***	Dec. 19 5. 35 5. 56 6. 17 6. 32 6. 47 7. 34 8. 58 9. 12 9. 18 9. 35 9. 48 11. 17 12. 46 13. 7 13. 20 13. 47 15. 2 17. 38 18. 7 18. 45 19. 6 20. 4 21. 16 22. 18 23. 59	.0999 .1000 .1008 .1005 .1009 *** .1006 *** .1011 .1003 .1016 .1010 .1018 *** .1003 *** .1011 .1025 .1015 .1025 *** .1004 *** .1022 ***	Dec. 19 5. 0 5. 21 5. 45 6. 14 6. 30 6. 54 7. 21 9. 27 10. 29 11. 52 12. 29 12. 39 12. 55 13. 15 13. 30 13. 42 14. 9 14. 42 16. 0 16. 59 17. 51 18. 19 18. 44 19. 37	.0999 .1000 .1008 .1005 .1009 *** .1006 *** .1011 .1003 .1016 .1010 .1018 *** .1003 *** .1011 .1025 .1015 .1025 *** .1004 *** .1022 ***	Dec. 19 5. 0 5. 21 5. 45 6. 14 6. 30 6. 54 7. 21 9. 27 10. 29 11. 52 12. 29 12. 39 12. 55 13. 15 13. 30 13. 42 14. 9 14. 42 16. 0 16. 59 17. 51 18. 19 18. 44 19. 37			Dec. 19 5. 0 5. 21 5. 45 6. 14 6. 30 6. 54 7. 21 9. 27 10. 29 11. 52 12. 29 12. 39 12. 55 13. 15 13. 30 13. 42 14. 9 14. 42 16. 0 16. 59 17. 51 18. 19 18. 44 19. 37	.0999 .1000 .1008 .1005 .1009 *** .1006 *** .1011 .1003 .1016 .1010 .1018 *** .1003 *** .1011 .1025 .1015 .1025 *** .1004 *** .1022 ***								
Dec. 20 0. 43 0. 54 1. 22 4. 37 5. 52 6. 12 6. 54 7. 28 8. 29 9. 40 10. 7 10. 32 10. 54 11. 0 11. 21 11. 40 16. 21 18. 56	21. 20. 10 20. 20 18. 30 15. 15 16. 0 14. 30 0. 25 11. 50 13. 15 8. 5 6. 15 11. 45 10. 50 11. 40 10. 30 12. 10 10. 50 11. 50 (†)	Dec. 20 0. 0 2. 41 6. 21 8. 57 11. 55 23. 59	.1013 .1005 .1009 *** .1006 .0997 .0998 .1021 .1012 .1002 .1008 *** .1004 .1019 *** .1005 .1011 *** .1022 ***	Dec. 20 0. 0 2. 41 6. 21 8. 57 11. 55 23. 59	.02540 .02528 .02300 .02208 .02200 .02737	Dec. 20 0. 0 3. 0 9. 0 21. 0	38.0 39.0 41.0 42.0 40.8 35.8	39.5 40.2 42.0 43.0 38.0	Dec. 20 0. 0 3. 0 9. 0 21. 0	.02540 .02528 .02300 .02208 .02200 .02737								
Dec. 19 0. 38 0. 54 1. 22 1. 37 1. 54 3. 15 3. 30 3. 55 4. 29	21. 19. 0 17. 45 19. 30 18. 45 19. 40 16. 45 17. 30 16. 50 18. 45	Dec. 19 1. 0 1. 45 2. 50 3. 44 3. 50 4. 5 4. 44 5. 7	.1018* .1011 .1008 .1013 .1009 .1014 *** .1005 .0988	Dec. 19 0. 0 4. 54 8. 49 15. 5 18. 52 21. 30 23. 18 23. 59	.02980 .02622 .02340 .02200 .02250 .02330 .02512 .02540	Dec. 19 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 18. 0 21. 5	36.0 37.6 40.2 42.4 42.5 42.7 35.0 38.0	38.0 39.0 41.0 42.6 42.5 42.8 35.3 39.0	Dec. 19 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 18. 0 21. 5	.02980 .02622 .02340 .02200 .02250 .02330 .02512 .02540								

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

INDICATIONS OF THE MAGNETOMETERS

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Dec. 20 21. 0	21. 8. 14*	Dec. 20 19. 8 21. 0	*1022 (†) *1015*						Dec. 22 9. 2 9. 39 11. 0 11. 59 14. 18 17. 57 19. 25 20. 56 21. 30 23. 13 23. 59	20. 58. 45 21. 6. 20 5. 10 8. 20 11. 15 10. 50 11. 45 11. 0 13. 20 11. 50 13. 30	Dec. 22 9. 17 10. 5 10. 17 10. 46 11. 8 18. 15 21. 35 22. 40 23. 59	*1008 *0993 *0993 *1001 *0999 *** *1020 *** *1017 *** *1007 *1005					
Dec. 21 1. 0 1. 15 1. 54 2. 1 3. 10 4. 15 6. 55 7. 29 7. 39 7. 51 8. 47 10. 1 10. 26 10. 40 11. 0 11. 12 12. 30 13. 23 13. 40 13. 46 14. 39 14. 58 15. 12 15. 45 16. 0 16. 27 16. 45 17. 21 17. 54 19. 22 20. 58 21. 12 21. 15 21. 24 21. 40 22. 21 23. 22	(†) 21. 17. 5* 13. 20 11. 55 12. 40 9. 10 11. 50 10. 20 5. 5 6. 10 2. 30 9. 0 8. 20 5. 50 6. 40 4. 45 6. 20 9. 20 9. 35 8. 40 10. 10 9. 30 7. 30 7. 20 9. 40 12. 30 12. 0 13. 20 10. 20 10. 35 13. 10 11. 50 13. 15 11. 40 13. 15 13. 0 15. 30 (†)	Dec. 21 1. 0 1. 45 2. 7 2. 45 2. 49 *** 7. 34 7. 45 8. 16 8. 44 10. 22 10. 47 11. 36 11. 48 14. 39 15. 4 15. 20 16. 34 16. 56 17. 26 *** 19. 7 *** 19. 56 *** 21. 45 22. 17 23. 16 23. 59	*1000* *0999 *0997 *0999 *0995 *** *1001 *0996 *1015 *0999 *** *1010 *1017 *** *1018 *1013 *** *1013 *1018 *1015 *** *1019 *1015 *1024 *** *1023 *** *1020 *** *1001 *** *1007 *** *1002 *1002	Dec. 21 0. 0 1. 40 4. 44 5. 45 10. 54 23. 15 23. 59	*02737 *02636 *02292 *02217 *02091 *02420 *02405	Dec. 21 1. 0 3. 0 21. 0	39. 0 42. 5 42. 2 38. 3	40. 0 42. 7 42. 1 39. 2	Dec. 23 0. 0 0. 19 0. 42 1. 58 2. 40 4. 10 5. 11 5. 30 5. 43 6. 36 8. 13 8. 36 8. 58 9. 15 9. 29 9. 42 9. 57 10. 50 11. 14 11. 52 15. 11 22. 28 22. 45 23. 59	21. 13. 30 13. 50 12. 55 13. 45 11. 40 10. 0 11. 25 6. 25 9. 30 10. 40 8. 20 8. 40 6. 40 8. 20 7. 45 8. 10 6. 15 9. 10 7. 45 9. 50 12. 10 11. 45 13. 30 13. 0	Dec. 23 0. 0 1. 15 9. 59 22. 27 23. 59	*1005 *1001 *0997 *1000 *** *0996 *1001 *0985 *0991 *0987 *0996 *1004 *1001 *1006 *1002 *1013 *** *1012 *1017 *1014 *** *1016 *1020 *1021 *1018 *1010 *1012 *1010	Dec. 23 0. 0 1. 15 9. 59 22. 27 23. 59	*02686 *02670 *02206 *02797 *02804	Dec. 23 8. 33 21. 0	40. 8 34. 0	41. 5 35. 7
Dec. 22 0. 30 1. 12 1. 27 3. 48 4. 21 5. 46 6. 54 7. 27 7. 45 7. 54 8. 43	(†) 21. 15. 0 13. 20 14. 0 10. 50 8. 50 11. 10 8. 10 9. 40 8. 50 9. 0 6. 0	Dec. 22 0. 0 1. 4 1. 47 2. 18 3. 6 3. 32 5. 0 7. 36 8. 42 9. 3	*1002 *0995 *** *0998 *0992 *0997 *0992 *0998 *0990 *0993 *0987 *1004	Dec. 22 0. 0 2. 21 3. 7 3. 14 6. 36 7. 25 8. 24 8. 41 9. 53 14. 20 21. 44 23. 59	*02405 *02284 *02222 *02236 *01909 *01874 *01891 *01938 *01907 *01984 *02477 *02686	Dec. 22 1. 0 3. 0 9. 0 22. 33	41. 0 44. 0 45. 8 36. 0	41. 3 43. 4 47. 0 38. 5	Dec. 24 0. 0 2. 45 3. 22 4. 7 7. 30 7. 57 8. 28 11. 1 11. 30 14. 12 15. 9 16. 45 20. 9	21. 13. 0 *** 12. 40 8. 30 10. 35 10. 40 9. 10 10. 10 11. 10 10. 30 12. 20 11. 40 12. 40 11. 30	Dec. 24 0. 0 9. 13 20. 0 22. 50	*1010 *1012 *1008* *0996* *1019* *1012*	Dec. 24 0. 0 9. 13 20. 0 22. 50	*02804 *02410 *03090 *03052 (†)	Dec. 24 1. 0 3. 0 9. 40 22. 30	37. 3 39. 0 36. 5 29. 0	37. 2 39. 5 36. 8 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.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Dec. 24 22. 12 22. 58	21. 15. 45 15. 30 (†)																
Dec. 25 7. 30 21. 10	21. 2. 50* 10. 7*	Dec. 25 7. 30 21. 10	*1010* *1014*	Dec. 25 0. 30 2. 43 6. 30 8. 39 10. 27 11. 7 16. 23 21. 13 22. 55 23. 59	(†) *02880 *02928 *02789 *02769 *02657 *02673 *02590 *02565 *02613 *02550	Dec. 25 7. 30 21. 10	31. 5 33. 0 33. 0 34. 4										
Dec. 26 0. 58 2. 16 3. 14 3. 44 5. 14 6. 23 7. 8 7. 29 8. 20 10. 41 11. 54 12. 25 12. 45 12. 51 13. 21 13. 40 16. 11 18. 40 20. 29 22. 0	(†) 21. 14. 15 15. 30 8. 45 12. 20 9. 35 7. 45 5. 25 8. 20 9. 10 8. 30 10. 5 8. 50 9. 0 8. 15 10. 0 11. 40 11. 35 10. 35 12. 0 (†)	Dec. 26 1. 0 1. 56 2. 12 3. 26 3. 56 4. 33 6. 3 8. 27 11. 42 12. 38 9. 0 13. 45 15. 17 16. 7 19. 26 20. 36 21. 47 23. 59	(†) *1004* *1005 *1005 *0992 *1000 *1006 *** *0994 *** *1006 *** *1002 *** *1012 *1011 *1016 *1022 *1022 *1013 *1009	Dec. 26 0. 0 3. 5 6. 9 7. 52 16. 22 23. 59	*02550 *02320 *01938 *01992 *02003 *02193	Dec. 26 0. 0 1. 0 3. 0 6. 0 9. 0 12. 0 21. 0	35. 0 36. 3 36. 7 38. 0 39. 8 40. 7 42. 0 41. 4 41. 8 42. 3 42. 1 42. 5 37. 7 38. 3										
Dec. 27 0. 20 2. 21 3. 11 4. 10 4. 44 5. 14 5. 41 7. 21 7. 41 7. 54 8. 43 8. 59 9. 37 10. 6 10. 28	(†) 21. 12. 0 14. 15 13. 30 9. 20 10. 50 8. 45 10. 50 9. 55 8. 45 9. 10 6. 45 8. 50 9. 15 8. 40 10. 0	Dec. 27 0. 0 1. 17 2. 32 3. 45 4. 18 4. 47 5. 58 6. 45 8. 17 8. 46 9. 47 10. 15 13. 46 18. 47 22. 54	*1009 *0996 *0999 *0997 *1001 *1000 *1001 *1001 *1002 *1005 *1004 *1008 *1010 *1017 *** *1012 ***	Dec. 27 0. 0 1. 39 5. 38 5. 52 15. 42 23. 59	*02193 *02228 *02000 *02030 *02020 *02157	Dec. 27 0. 0 1. 0 3. 0 9. 0 21. 0	38. 9 39. 7 39. 0 40. 0 42. 2 41. 7 39. 0 40. 3										
Dec. 27 11. 9 11. 24 13. 39 15. 52 20. 55 22. 12	21. 8. 20 9. 50 9. 20 11. 30 10. 40 11. 30 (†)																
Dec. 27 23. 47 23. 59			*1006 *1007														
Dec. 28 2. 44 4. 15 4. 39 5. 8 5. 26 8. 15 8. 47 9. 45 10. 42 10. 57 12. 15 17. 22 17. 47 21. 0 22. 2	(†) 21. 11. 20 9. 40 10. 20 9. 40 10. 15 7. 50 8. 20 7. 55 9. 0 7. 50 9. 10 10. 40 10. 10 11. 0 11. 55 (†)	Dec. 28 0. 0 1. 43 4. 17 9. 7 9. 20 9. 37 10. 12 14. 30	*1007 *1004 *0997 *0999 *0997 *0999 *0997 *** *1015 ***	Dec. 28 0. 0 3. 21 13. 5 16. 13 21. 19 23. 34 23. 59	*02157 *02037 *02142 *02255 *02422 *02870 *03120 *03117	Dec. 28 1. 0 3. 0 9. 0 21. 0	41. 5 41. 8 43. 2 43. 1 44. 0 43. 5 33. 0 34. 7										
Dec. 29 2. 9 2. 45 2. 57 7. 21 15. 0 19. 57 23. 39 23. 59	(†) 21. 12. 50 12. 20 11. 10 9. 45 10. 35 10. 0 13. 45 13. 20	Dec. 29 0. 0 1. 6 1. 25 3. 3 3. 54 4. 45 8. 7 8. 34 9. 40 15. 17 18. 36 23. 59	*1019 *1018 *1013 *1009 *1017 *1014 *1019 *1016 *1020 *1025 *1028 *** *1023	Dec. 29 0. 0 6. 52 14. 27 23. 59	*03117 *03092 *02752 *02770 *02882	Dec. 29 1. 0 3. 0 9. 0 22. 55	35. 3 36. 0 38. 2 37. 5 38. 3 36. 7 38. 3										
Dec. 30 0. 0 0. 51 2. 15 3. 42 4. 15 4. 39 5. 22 8. 13 12. 42 13. 7 15. 14 17. 41 18. 0 18. 56 19. 12	21. 13. 20 13. 40 11. 40 12. 15 11. 10 11. 50 10. 50 9. 50 10. 0 9. 30 10. 40 9. 35 10. 20 9. 40 10. 10	Dec. 30 0. 0 2. 17 6. 17 11. 43 17. 26 23. 59	*1023 *1005 *1015 *1009 *1017 *1001	Dec. 30 0. 0 9. 26 18. 13 22. 30 23. 59	*02882 *02912 *02388 *02299 *02421 *02409	Dec. 30 6. 42 21. 0	43. 0 43. 3 41. 8 43. 7										

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

INDICATIONS OF THE MAGNETOMETERS.

Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Greenwich Mean Solar Time.	Readings of Thermometers.		Greenwich Mean Solar Time.	Western Declination.	Greenwich Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Greenwich Mean Solar 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.								Of H. F. Magnet.	Of V. F. Magnet.
Dec. 30 19. 22 20. 21 22. 28	21. 9. 40 10. 40 12. 20 (†)																
		Dec. 31 0. 0 1. 53 3. 23 4. 4 5. 17 5. 45	*1001 *1000 *0989 *0995 *1000 *0997	Dec. 31 0. 0 1. 30 5. 42 8. 47 10. 44 3. 28	*02409 *02370 *02090 *01994 *02028 *02003	Dec. 31 1. 0 3. 0 9. 0 21. 0	44. 0 46. 0 46. 7 46. 6	45. 0 46. 0 46. 0 47. 2				Dec. 31 7. 11 8. 18 9. 20 9. 42 10. 0 10. 26 10. 42 13. 2 16. 45 18. 32 23. 59	*1009 *** *0991 *0996 *0992 *0995 *0987 *0993 *0996 *1008 *** *1009 *0994	Dec. 31 19. 13. 23. 59	*02174 *02110		

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time 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 31. The Declination Magnet was under adjustment.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

OBSERVATIONS

OF THE

MAGNETIC DIP.

1860.

During the year 1860, the observations of the Magnetic Dip were made 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.

MAGNETIC DIP, observed at the ROYAL OBSERVATORY, GREENWICH, in the Year 1860.

Day and Approximate Hour, 1860.	Needle.	Magnetic Dip.	Observer.	Day and Approximate Hour, 1860.	Needle.	Magnetic Dip.	Observer.
January 17. 1 ^d 1 ^h	Dent A 1	68. 24 '00	T D	June 26. 21 ^d 21 ^h	Dent A 3	68. 26 '75	T D
18. 23	,, A 3	68. 26 '25	T D	29. 1	,, A 1	68. 30 '75	T D
26. 21	Barrow A 2	68. 32 '75	T D	July 1. 21	Barrow A 2	68. 36 '00	T D
30. 22	,, A	68. 30 '25	T D	4. 22	Dent A 3	68. 28 '50	T D
February 6. 21	Dent A 1	68. 25 '25	T D	9. 21	,, A 1	68. 31 '25	T D
9. 21	Barrow A 2	68. 35 '75	T D	10. 21	Barrow A 2	68. 36 '00	T D
13. 22	Dent A 3	68. 27 '00	T D	12. 22	Dent A 3	68. 29 '50	T D
16. 1	,, A 1	68. 24 '75	T D	18. 22	,, A 1	68. 31 '25	T D
22. 1	Barrow A	68. 29 '00	T D	19. 22	Barrow A 2	68. 36 '50	T D
28. 23	,, A 2	68. 35 '50	T D	24. 22	Dent A 3	68. 27 '75	T D
March 0. 22	Dent A 3	68. 30 '00	T D	26. 1	,, A 1	68. 30 '50	T D
6. 1	,, A 1	68. 28 '00	T D	30. 22	Barrow A 2	68. 37 '75	T D
8. 1	Barrow A	68. 18 '75	T D	31. 21	Dent A 3	68. 27 '25	T D
13. 21	Dent A 1	68. 26 '75	T D	August 2. 21	Dent A 1	68. 30 '50	T D
15. 0	Barrow A 2	68. 34 '75	T D	6. 22	Barrow A 2	68. 36 '00	T D
17. 1	Dent A 3	68. 27 '75	T D	9. 21	Dent A 3	68. 29 '00	T D
19. 22	,, A 1	68. 30 '50	T D	13. 21	,, A 1	68. 26 '50	T D
22. 22	Barrow A 2	68. 37 '00	T D	14. 22	Barrow A 2	68. 37 '25	T D
26. 23	Dent A 1	68. 30 '00	T D	16. 22	Dent A 3	68. 29 '75	T D
28. 23	Barrow A 2	68. 35 '00	T D	19. 23	,, A 1	68. 31 '00	H
April 2. 23	Dent A 3	68. 27 '50	T D	28. 21	,, ,,	68. 25 '50	T D
5. 1	Barrow A 2	68. 35 '75	T D	30. 22	Barrow A 2	68. 38 '75	T D
10. 22	Dent A 1	68. 31 '00	T D	September 3. 21	Dent A 3	68. 29 '00	T D
12. 23	,, A 3	68. 28 '00	T D	6. 21	,, A 1	68. 33 '75	T D
16. 22	,, A 1	68. 29 '25	T D	11. 21	Barrow A 2	68. 36 '00	T D
18. 23	Barrow A 2	68. 32 '25	T D	19. 21	Dent A 3	68. 29 '25	T D
24. 23	Dent A 1	68. 18 '75	T D	25. 23	,, A 1	68. 25 '75	T D
26. 22	Barrow A 2	68. 32 '50	T D	October 2. 23	Barrow A 2	68. 35 '25	T D
30. 22	Dent A 3	68. 28 '00	T D	9. 1	Dent A 3	68. 30 '25	T D
May 3. 0	Dent A 1	68. 25 '50	T D	11. 21	,, A 1	68. 25 '00	T D
7. 23	Barrow A 2	68. 32 '75	T D	16. 22	Barrow A 2	68. 37 '00	T D
23. 22	Dent A 1	68. 26 '00	T D	17. 21	Dent A 3	68. 30 '50	T D
25. 23	Barrow A 2	68. 36 '25	T D	24. 1	,, A 1	68. 24 '25	T D
29. 23	Dent A 3	68. 27 '50	T D	26. 0	Barrow A 2	68. 34 '75	T D
31. 23	,, A 1	68. 27 '75	T D	30. 22	Dent A 3	68. 31 '00	T D
June 4. 22	Barrow A 2	68. 35 '00	T D	November 0. 22	Dent A 1	68. 24 '75	T D
8. 0	Dent A 3	68. 28 '25	T D	5. 22	Barrow A 2	68. 36 '00	H
11. 22	,, A 1	68. 29 '75	T D	14. 22	Dent A 3	68. 30 '50	H
13. 22	Barrow A 2	68. 36 '00	T D	23. 1	,, A 1	68. 20 '00	T D
14. 23	Dent A 3	68. 28 '50	T D	30. 22	Barrow A 2	68. 25 '50	J G
20. 21	,, A 1	68. 29 '25	T D	December 17. 21	Dent A 3	68. 26 '00	T D
25. 21	Barrow A 2	68. 36 '00	T D	20. 22	,, A 1	68. 17 '50	T D

October 26. A damp day.

November 23. A very damp day.

The initials J G, T D, and H are those of Mr. Glaisher, Mr. Downs, and Mr. Howe respectively.

MONTHLY MEANS OF MAGNETIC DIPS, at the ROYAL OBSERVATORY, GREENWICH, in the Year 1860.

Month, 1860.	Barrow, A.	Number of Observations.	Dent, A 1.	Number of Observations.	Barrow, A 2.	Number of Observations.	Dent, A 3.	Number of Observations.
January	68. 30' 25	1	68. 24' 00	1	68. 32' 75	1	68. 26' 25	1
February	68. 29' 00	1	68. 25' 00	2	68. 35' 63	2	68. 27' 00	1
March	68. 18' 75	1	68. 28' 81	4	68. 35' 58	3	68. 28' 88	2
April	....	..	68. 26' 33	3	68. 33' 50	3	68. 27' 75	3
May	....	..	68. 26' 42	3	68. 34' 50	2	68. 27' 50	1
June	....	..	68. 29' 92	3	68. 35' 67	3	68. 27' 83	3
July	....	..	68. 31' 00	3	68. 36' 56	4	68. 28' 25	4
August	....	..	68. 28' 38	4	68. 37' 33	3	68. 29' 38	2
September	....	..	68. 29' 75	2	68. 36' 00	1	68. 29' 13	2
October	....	..	68. 24' 63	2	68. 35' 67	3	68. 30' 58	3
November	....	..	68. 22' 38	2	68. 30' 75	2	68. 30' 50	1
December	....	..	68. 17' 50	1	....	..	68. 26' 00	1
Mean	....	..	68. 27' 16	30	68. 35' 19	27	68. 28' 48	24

For this Table the monthly means have been formed without reference to the hour at which the observation was made on each day, as in preceding years no certain difference was found between observations taken at 21^h and at 3^h.

ROYAL OBSERVATORY, GREENWICH.

OBSERVATIONS
OF
DEFLEXION OF A MAGNET
FOR
ABSOLUTE MEASURE
OF
HORIZONTAL FORCE.

1860.

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 $\frac{D}{XX}$ (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

$$\frac{m}{X} = \frac{1}{2} a$$

$$mX = \frac{\pi^2 K}{T^2}$$

from which m and X are found.

The computation of the values of m and X has, to the year 1857, been made in reference to 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 reference to 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 mX 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 factor for reducing the English values of X to French values will be 0.46108, or $\frac{1}{2.1689}$. 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

$$\frac{a^1}{(\text{distance})^3} + \frac{b^1}{(\text{distance})^5}$$

but no further use is made of these deflexions.

For the determination of the Absolute Measure of Horizontal Force on those days on which vibrations, unaccompanied by Deflexions, were observed, it is assumed that the quantity m (which is peculiar to the magnet) changes at a uniform rate from one observation of deflexion to the next; and the comparison of its interpolated value with the value of mX 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, 1860.	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.
January 16	Lateral	ft. in. 1. 0	43·1	8. 33. 0·57	5·956	100	40·4	N
	Axial	1. 6		4. 29. 20·35				
February 7	Lateral	1. 0	39·3	2. 29. 52·03	5·937	100	35·5	N
	Axial	1. 6		1. 18. 0·59				
March 19	Lateral	1. 0	51·2	8. 26. 43·89	5·934	100	48·0	N
	Axial	1. 6		4. 29. 34·91				
April 4	Lateral	1. 0	52·7	2. 27. 51·13	5·946	100	50·8	N
	Axial	1. 6		1. 14. 38·41				
June 11	Lateral	1. 0	65·1	8. 31. 17·89	5·922	100	62·3	N
	Axial	1. 6		4. 30. 35·22				
July 26	Lateral	1. 0	62·1	2. 29. 29·72	5·937	100	60·8	N
	Axial	1. 6		1. 16. 4·14				
August 21	Lateral	1. 0	67·3	8. 28. 41·90	5·949	100	63·7	N
	Axial	1. 6		4. 27. 1·76				
September 3	Lateral	1. 0	64·3	2. 27. 56·18	5·963	100	64·0	N
	Axial	1. 6		1. 15. 9·78				
October 22	Lateral	1. 0	59·8	8. 24. 31·65	5·938	100	53·8	N
	Axial	1. 6		4. 26. 53·99				
November 19	Lateral	1. 0	42·2	2. 29. 6·07	5·934	100	58·8	N
	Axial	1. 6		1. 17. 18·80				
December 18	Lateral	1. 0	33·5	8. 30. 47·09	5·934	100	39·7	N
	Axial	1. 6		4. 29. 32·59				
December 18	Lateral	1. 0	33·5	2. 29. 35·67	5·940	100	32·8	H C
	Axial	1. 6		1. 18. 0·32				
December 18	Lateral	1. 0	33·5	8. 32. 15·14	5·940	100	32·8	H C
	Axial	1. 6		4. 31. 46·84				
December 18	Lateral	1. 0	33·5	2. 31. 15·49	5·940	100	34·5	H C
	Axial	1. 6		1. 13. 34·01				

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

COMPUTATION of the VALUES of ABSOLUTE MEASURE of HORIZONTAL FORCE.											
Month and Day, 1860.	In English Measure.										Value of X in French Measure.
	Apparent Value of a.	Apparent Value of b.	Apparent Value of a'.	Apparent Value of b'.	Adopted Value of a, assuming the Value of b (+ 0.00293) as applicable to all.	Log. $\frac{1}{2} a$ = Log. $\frac{m}{X}$	Adopted Time of Vibration of Deflecting Magnet.	Log. m X.	Value of X.	Value of m.	
January 16	+0.14581	+0.00287	0.07522	0.00305	+0.14831	8.86260	5.957	0.03848	3.872	0.2822	1.785
February 7	+0.14897	-0.00093	0.06737	0.01149	+0.14816	8.86214	5.949	0.03965	3.879	0.2824	1.789
March 19	+0.14370	+0.00317	0.07510	0.00324	+0.14647	8.85707	5.934	0.04185	3.912	0.2815	1.804
April 4	+0.14555	+0.00263	0.06898	0.00965	+0.14784	8.86119	5.940	0.04097	3.889	0.2825	1.793
June 11	+0.14094	+0.00588	0.07331	0.00465	+0.14608	8.85588	5.923	0.04346	3.925	0.2816	1.810
July 26	+0.14431	+0.00313	0.07195	0.00612	+0.14704	8.85880	5.938	0.04133	3.902	0.2819	1.799
August 21	+0.14414	+0.00236	0.07074	0.00686	+0.14620	8.85626	5.947	0.04002	3.907	0.2806	1.802
September 3	+0.14214	+0.00410	0.07092	0.00664	+0.14572	8.85481	5.962	0.03776	3.904	0.2794	1.800
October 22	+0.14501	+0.00298	0.07403	0.00420	+0.14761	8.86051	5.936	0.04155	3.895	0.2825	1.796
November 19	+0.14584	+0.00220	0.07517	0.00316	+0.14776	8.86095	5.935	0.04177	3.894	0.2827	1.796
December 18	+0.14844	+0.00002	0.06681	0.01217	+0.14818	8.86221	5.940	0.04097	3.885	0.2829	1.791
Mean	-	+0.00293									

In determining the mean value of b that for February 7 has been inadvertently omitted.

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

Month and Day, 1860.	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 12	5.939	42.5	0.04111	0.2820	3.898	1.797	H
February 1	5.943	33.2	0.04053	0.2823	3.889	1.793	H
February 22	5.953	37.3	0.03907	0.2821	3.879	1.788	H
March 12	5.939	40.3	0.04111	0.2816	3.904	1.800	H
March 30	5.941	49.0	0.04082	0.2822	3.893	1.795	H
April 16	5.934	58.0	0.04185	0.2824	3.899	1.798	H
May 4	5.941	62.2	0.04082	0.2821	3.894	1.796	H
June 16	5.936	63.5	0.04155	0.2816	3.908	1.802	H
June 30	5.928	56.3	0.04272	0.2817	3.917	1.806	H
July 5	5.928	69.5	0.04272	0.2818	3.916	1.805	H
September 21	5.954	62.3	0.03892	0.2806	3.898	1.797	H
September 26	5.969	56.5	0.03674	0.2809	3.874	1.786	H
October 2	5.954	58.8	0.03892	0.2812	3.890	1.793	H

The number of vibrations employed in each determination was 100.

The initial H is that of Mr. Howe.

It will be remarked that, as no correction has been applied for temperature, the result is affected with a slight error, unless the temperature in these vibration-observations coincide with the temperature interpolated between the deflexion-observations.

ROYAL OBSERVATORY, GREENWICH.

R E S U L T S

OF

METEOROLOGICAL OBSERVATIONS.

1860.

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 xlvi, 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 16, 26; March 13, 19; April 2, 30; May 10; July 10; October 12, 21; December 29.

The thermometer for the maximum temperature in the water of the Thames was out of order from January 22 to 31; February 5 to 13; March 23 to 26; April 4 to 6; on July 21; from July 23 to 28; December 23 to 29. That for the minimum temperature was out of order from January 15 to 31; February 5 to 13; March 23 to 26; April 4 to 6; on April 20, 29, 30; July 21, 23, 24; from December 23 to 29.

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.

Robinson's Anemometer is described in the Introduction 1859, page cxli. The instrument is read off every day at 22^h (10^h A.M.)

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 <i>galvanic currents</i>	N denotes <i>negative</i>	s denotes <i>strong</i>	v denotes <i>variable</i>
m .. <i>moderate</i>	P .. <i>positive</i>	sp .. <i>sparks</i>	w .. <i>weak</i>

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

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

RESULTS OF ORDINARY METEOROLOGICAL OBSERVATIONS

Table with columns: MONTH and DAY, 1860.; Phases of the Moon.; READINGS OF THERMOMETERS. (Dry, Dew Point, Water of the Thames); Difference between the Dew Point Temperature and Air Temperature.; WIND AS DEDUCED FROM ANEMOMETERS. (OSLER'S, General Direction, Pressure); WHEELWELL'S and ROBINSON'S; Amount of Horizontal Movement of the Air; Rain in Inches read at 9 P.M.

BAROMETER READINGS FROM EYE-OBSERVATIONS.

The first maximum in the month was 29.573 on the 1st; the first minimum in the month was 29.385 on the 1st. The second maximum was 29.683 on the 2nd; the second minimum was 28.653 on the 5th. The absolute maximum was 30.208 on the 8th; the third minimum was 29.924 on the 11th. The fourth maximum was 30.052 on the 13th; the fourth minimum was 29.646 on the 15th. The fifth maximum was 30.125 on the 16th; the fifth minimum was 29.139 on the 20th. The sixth maximum was 29.304 on the 20th; the sixth minimum was 28.796 on the 21st. The seventh maximum was 29.280 on the 23rd; the absolute minimum was 28.560 on the 24th. The eighth maximum was 29.723 on the 26th; the eighth minimum was 29.075 on the 27th. The ninth maximum was 29.973 on the 28th; the ninth minimum was 28.782 on the 30th. The range in the month was 1.648. The mean for the month was 29.515, being 0.255 lower than the average of the preceding 19 years.

TEMPERATURE OF THE AIR.

The highest in the month was 55.5 on the 3rd; the lowest was 27.5 on the 28th; and the range in the month was 28. The mean of all the highest daily readings was 45.0, being 1.9 higher than the average of the preceding 19 years. The mean of all the lowest daily readings was 34.8, being 1.2 higher than the average of the preceding 19 years. The mean daily range was 10.2, being 0.7 higher than the average of the preceding 19 years. The mean for the month was 39.7, being 1.5 higher than the average of the preceding 19 years.

MONTH and DAY, 1860.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Jan. 1	o	v	10	10, cu.-s, ci.-s : 5, ci.-s, sc, sl.-r
2	o	o	10, r : 3, ci.-s, ci	3, ci : lu.-ha
3	o	o	10, cu.-s, ci.-s, oc.-r	10, cu.-s, ci.-s, oc.-r
4	o	s N, sps	o : 10, ci.-cu, cu.-s, ci.-s	10 : hl, r : 9, ci.-cu, ci.-s
5	o	o	10, cu.-s, ci.-s, oc.-r	10, fr.-r
6	o	o	10, sl.-r	9, cu.-s, ci.-s, sl.-r : o
7	s	s : s, sps	o	3, ci.-cu, ci : o : 10, lu.-ha
8	s	s	10, ci.-s, h	10, th.-r
9	s	s	10, f	10, cu.-s, ci.-s : ci.-cu, ci.-s
10	s	s : s, sps	10	10 : cu.-s, ci.-s, th.-f
11	s	s	5, ci.-cu, ci.-s : o	o : 10
12	s	s	10, cu.-s, ci.-s	7, cu.-s, ci.-s : o, f
13	o	m	10, r : 9, ci.-cu, ci	9, ci.-cu, ci
14	o	o	10, f	10
15	o	o : w	10, fr.-r	10, fr.-r
16	o	o : w	5, ci.-cu, ci.-s	5, ci.-cu, ci.-s : o
17	w	o	10, r : o, h	9 : 10
18	o	o	9, cu, cu.-s, ci.-s, h.-f : 10	10 : 10, r
19	o	o : w	10, r	10, ci.-cu, ci.-s
20	o	s N : s	10, fr.-r	10, fr.-r : 10
21	m, N	o	10, fr.-r, st.-w	10, fr.-r, st.-w : o
22	o	o	o, st.-w	5, st.-w : o
23	o	o	o	10, cu.-s, ci.-s : r
24	o	s N, sps, gcur : o	o	10, h.-shs.-r : o, l
25	o	o	o, l : 10	10, ci.-s : o, f
26	s	s	o, f	10 : h.-r
27	o : w	o	9, ci.-cu, ci.-s, oc.-r	9, ci.-cu, ci.-s
28	o	o	5, ci.-s, h : o, h	10, ci.-cu, ci.-s : r
29	s	w	5, ci.-s, ci	10, ci.-cu, cu.-s, ci.-s : o, th.-f
30	w, N	s N, s P, sps, gcur	10, r	10, r : 7, ci.-su, ci.-s : 9, s, ci.-s, fr.-r
31	o	o	10, s, ci.-s	5, ci.-cu, ci.-s : sl.-sn

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 49°·7 on the 1st; and the lowest was 21°·0 on the 28th.
The mean ,, was 36°·2, being 0°·8 higher than the average of the preceding 19 years.

Elastic Force of Vapour.—The mean for the month was 0ⁱⁿ·214, being 0ⁱⁿ·009 greater than the average of the preceding 19 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2^{gr}·5, being 0^{gr}·1 greater than the average of the preceding 19 years.

Degree of Humidity.—The mean for the month was 88 (that of Saturation being represented by 100), being 1 less than the average of the preceding 19 years.

Weight of a Cubic Foot of Air.—The mean for the month was 548 grains, being 6 grains less than the average of the preceding 19 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 6·9.

WIND.

The proportions were of N. 3, S. 13, W. 12, and E. 3. The greatest pressure in the month was 17^{lbs}·0 on the square foot on the 22nd and 23rd.

RAIN.

Fell on 21 days in the month, amounting to 1ⁱⁿ·8, as measured in the simple cylinder gauge partly sunk below the ground; being the same as the average fall of the preceding 45 years.

RESULTS OF ORDINARY METEOROLOGICAL OBSERVATIONS

Table with columns: MONTH and DAY, 1860; Phases of the Moon; READINGS OF THERMOMETERS (Dry, Dew Point, Water of the Thames); Difference between Dew Point and Air Temperature; WIND AS DEDUCED FROM ANEMOMETERS (General Direction, Pressure); Amount of Horizontal Movement of the Air; Rain in Inches read at 9 A.M.

BAROMETER READINGS FROM EYE-OBSERVATIONS.

The first maximum in the month was 30.210 on the 3rd; the first minimum in the month was 29.707 on the 6th. The second maximum ,, was 30.082 on the 7th; the second minimum ,, was 29.442 on the 8th. The third maximum ,, was 29.968 on the 10th; the third minimum ,, was 29.654 on the 11th. The absolute maximum ,, was 30.434 on the 14th; the fourth minimum ,, was 29.960 on the 16th. The fifth maximum ,, was 30.279 on the 17th; the fifth minimum ,, was 29.313 on the 20th. The sixth maximum ,, was 30.095 on the 23rd; the absolute minimum ,, was 29.037 on the 27th. The seventh maximum ,, was 29.489 on the 27th; the seventh minimum ,, was 29.133 on the 28th. The range in the month was 1.397. The mean for the month was 29.857, being 0.074 higher than the average of the preceding 19 years.

TEMPERATURE OF THE AIR.

The highest in the month was 53.0 on the 28th; the lowest was 23.2 on the 11th; and the range in the month was 30.3. The mean ,, of all the highest daily readings was 42.5, being 2.2 lower than the average of the preceding 19 years. The mean ,, of all the lowest daily readings was 30.1, being 3.3 lower than the average of the preceding 19 years. The mean daily range was 12.4, being 1.1 higher than the average of the preceding 19 years. The mean for the month was 35.7, being 2.8 lower than the average of the preceding 19 years.

MONTH and DAY, 1860.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Feb. 1	o	o : w	10, f	o : 10
2	o	o	10, ci.-s, sn	10 : 10, ci.-cu, ci.-s, sn
3	o	o	10	10 : 5 : o
4	s	s	10	7, ci.-cu, ci.-s : 10, s, ci.-s
5	v	v	9	10, ci.-cu, ci.-s : 3, ci
6	o	o	10, h.-r	9, ci.-cu, cu.-s, ci.-s : 10, oc.-sn : o
7	o	o : m	5, ci.-s	10, r : 10, oc.-r
8	o	o : w	7, cu.-s, ci.-s, sc	7, cu.-s, ci.-s, sc : 10, oc.-r : 8, ci-s
9	s N, s P	s N, s P : w	10, sl, r	10, cu.-s, ci.-s, sn, sl
10	o	s : o	5, ci.-s, ci, h	5, ci.-cu, ci.-s : o
11	v	o	10, sn	10, sn : 10
12	o	o	5, ci.-cu, ci.-s	o, h
13	o	o : s N, s P	o	10, sn : o
14	o	o	10, ci.-s	10, cu.-s, ci.-s : o
15	o	o : s N, s P	10	10, r : 7, ci.-s : 10
16	o	s N, s P	10	10, sn, hl, r : o
17	o	o : s N, s P	7, s, ci.-s	7, ci.-cu, ci.-s : 10, r
18	o	w	10, sl.-r	10
19	o : w	o	10, ci.-cu, ci.-s, oc.-r	10, cu.-s, ci.-s : oc.-sn.-r
20	o	o	5, ci.-s, ci	10, sn, r : o
21	o	o	10, oc.-r	10 : o, h : 10
22	o	o	10, sh.-r	10, cu.-s, ci.-s : 1, s, ci
23	o	o	o, h.-fr	7, cu, ci.-cu, ci : o
24	s	s	o, h.-fr	5, cu, ci.-cu, ci : o
25	v	v	10, cu.-s, ci.-s	10, cu, ci.-cu, ci : o
26			10, r	7, cu, ci.-cu, ci : 10, r
27			10, r : 2, ci.-s, sc : 10, sl, r	3, ci.-s, sc : o, st.-w
28			10, fr.-r, st.-w	7, ci.-s, sc : 10, hl, r : o, st.-w
29			o, h : 5, ci, h	7, cu, ci.-cu, ci, h : o

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 44°·3 on the 28th; and the lowest was 17°·7 on the 10th.
The mean ,, was 30°·4, being 4°·2 lower than the average of the preceding 19 years.

Elastic Force of Vapour.—The mean for the month was 0ⁱⁿ·170, being 0ⁱⁿ·032 less than the average of the preceding 19 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 28^{gr}·0, being 0^{gr}·3 less than the average of the preceding 19 years.

Degree of Humidity.—The mean for the month was 80 (that of Saturation being represented by 100), being 6 less than the average of the preceding 19 years.

Weight of a Cubic Foot of Air.—The mean for the month was 559 grains, being 5 grains greater than the average of the preceding 19 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 6·5.

WIND.

The proportions were of N. 11, S. 6, W. 8, and E. 4. The greatest pressure in the month was 28^{lbs}·0 on the square foot on the 28th.

RAIN.

Fell on 13 days in the month, amounting to 1ⁱⁿ·1, as measured in the simple cylinder gauge partly sunk below the ground; being 0ⁱⁿ·5 less than the average fall of the preceding 45 years.

ELECTRICITY.—The apparatus was under repair from February 26 to March 13.

RESULTS OF ORDINARY METEOROLOGICAL OBSERVATIONS

Main table with columns: MONTH and DAY, 1860; Phases of the Moon; Mean Daily Reading of the Barometer; READINGS OF THERMOMETERS (Dry, Dew Point, In the Water of the Thames); Difference between the Dew Point Temperature and Air Temperature; WIND AS DEDUCED FROM ANEMOMETERS (OSLER'S, General Direction, Pressure); WHEWELL'S and ROBINSON'S; Amount of Horizontal Movement of the Air; Rain in Inches read at 9 P.M.

BAROMETER READINGS FROM EYE-OBSERVATIONS.

The first maximum in the month was 29.953 on the 1st; the first minimum in the month was 29.822 on the 2nd. The second maximum ,, was 29.971 on the 3rd; the second minimum ,, was 29.620 on the 4th. The absolute maximum ,, was 30.397 on the 6th; the third minimum ,, was 29.955 on the 7th. The fourth maximum ,, was 30.231 on the 7th; the fourth minimum ,, was 29.332 on the 12th. The fifth maximum ,, was 29.498 on the 13th; the fifth minimum ,, was 29.269 on the 14th. The sixth maximum ,, was 30.036 on the 19th; the sixth minimum ,, was 29.285 on the 21st. The seventh maximum ,, was 29.766 on the 22nd; the seventh minimum ,, was 28.899 on the 24th. The eighth maximum ,, was 29.608 on the 26th; the eighth minimum ,, was 29.337 on the 29th. The ninth maximum ,, was 29.605 on the 30th; the absolute minimum ,, was 28.625 on the 31st. The range in the month was 1.772. The mean for the month was 29.657, being 0.143 lower than the average of the preceding 19 years.

TEMPERATURE OF THE AIR.

The highest in the month was 59.5 on the 28th; the lowest was 23.5 on the 10th; and the range in the month was 36.0. The mean ,, of all the highest daily readings was 49.2, being 0.8 lower than the average of the preceding 19 years. The mean ,, of all the lowest daily readings was 35.0, being 0.3 lower than the average of the preceding 19 years. The mean daily range was 14.2, being 0.5 lower than the average of the preceding 19 years. The mean for the month was 41.1, being 0.7 lower than the average of the preceding 19 years.

MONTH and DAY, 1860.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Mar. 1			5, cu, ci.-cu, ci	5, cu, ci.-cu, ci
2			10	7, ci.-cu, ci.-s
3			10, hl, r	10, oc.-r
4			10, r	10, f
5			3, cu, ci.-cu	5, cu, ci.-cu
6			10, f	10, f
7			10, sn, r	10, sl
8			10, cu.-s, ci.-s, sl	10, cu.-s, ci.-s, hl, r
9			o	7, cu, ci.-cu, ci, sn
10			10, s, ci.-s	10, ci.-s, ci
11			5, ci.-s, ci, h	5, cu, ci.-s
12			10, cu.-s, ci.-s	10
13			o	10, ci.-cu, ci.-s
14	o	o	5, ci.-cu, ci.-s	10, cu.-s, ci.-s
15	o	o	o	5, ci.-cu, ci, h
16	o	o	5, cu, ci.-cu, ci	9, ci.-cu, ci.-s
17	o	o	10	10, cu.-s, ci.-s
18	o	o	10, r	10, ci.-cu, ci.-s
19	o	o	o	10
20			10, oc.-r	7, ci.-cu, ci.-s
21			10, sh.-r	10, sh.-r
22			o	5, cu, ci.-cu, ci, shs.-hl
23			10, oc.-r	10, oc.-r
24			5, cu, ci.-cu, ci	5, cu.-s, ci.-s, hl
25	o	o	7, cu, ci.-cu, ci	7
26	o	m	10, cu, cu.-s	10, ci.-cu, ci.-s, r
27	o	o	10	10, ci.-cu, ci.-s
28	o	o	5, ci.-cu, ci.-s	10
29	m	o	10, oc.-r	7, ci.-cu, ci.-s, sc, r
30	o	o	6, cu, ci.-cu, ci	10, s, ci.-s
31	m	m	10	10, r

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 48°·6 on the 17th; and the lowest was 22°·2 on the 10th.

The mean " " was 35°·0, being 1°·4 lower than the average of the preceding 19 years.

Elastic Force of Vapour.—The mean for the month was 0ⁱⁿ·204, being 0ⁱⁿ·013 less than the average of the preceding 19 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2^{gr}·4, being 0^{gr}·1 less than the average of the preceding 19 years.

Degree of Humidity.—The mean for the month was 79 (that of Saturation being represented by 100), being 3 less than the average of the preceding 19 years.

Weight of a Cubic Foot of Air.—The mean for the month was 549 grains, being 2 grains less than the average of the preceding 19 years.

CLOUDS.

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

WIND.

The proportions were of N. 5, S. 6, W. 18, and E. 2. The greatest pressure in the month was 16^{lbs}·0 on the square foot on the 21st and 23rd.

RAIN.

Fell on 18 days in the month, amounting to 1ⁱⁿ·9, as measured in the simple cylinder gauge partly sunk below the ground; being 0ⁱⁿ·4 greater than the average fall of the preceding 45 years.

ELECTRICITY.—March 20 to 24. The insulating lamp was not burning.

RESULTS OF ORDINARY METEOROLOGICAL OBSERVATIONS

Table with columns: MONTH and DAY, 1860; Phases of the Moon; Mean Daily Reading of the Barometer; READINGS OF THERMOMETERS (Dry, Dew Point, In the Water of the Thames); Difference between the Dew Point Temperature and Air Temperature; WIND AS DEDUCED FROM ANEMOMETERS (General Direction, Pressure); Amount of Horizontal Movement of the Air; Rain in Inches read at 9 A.M.

BAROMETER READINGS FROM EYE-OBSERVATIONS.

The first maximum in the month was 29.124 on the 1st; the absolute minimum in the month was 28.955 on the 2nd. The second maximum ,, was 29.789 on the 7th; the second minimum ,, was 29.381 on the 8th. The third maximum ,, was 30.062 on the 11th; the third minimum ,, was 29.822 on the 13th. The fourth maximum ,, was 30.175 on the 16th; the fourth minimum ,, was 29.593 on the 21st. The fifth maximum ,, was 29.691 on the 22nd; the fifth minimum ,, was 29.545 on the 23rd. The absolute maximum ,, was 30.289 on the 30th. The range in the month was 1.334. The mean for the month was 29.796, being 0.064 higher than the average of the preceding 19 years.

TEMPERATURE OF THE AIR.

The highest in the month was 65.0 on the 30th; the lowest was 28.2 on the 11th. The range ,, was 36.8. The mean ,, of all the highest daily readings was 53.7, being 3.3 lower than the average of the preceding 19 years. The mean ,, of all the lowest daily readings was 35.6, being 3.2 lower than the average of the preceding 19 years. The mean daily range was 18.1, being 0.1 lower than the average of the preceding 19 years. The mean for the month was 42.9, being 3.6 lower than the average of the preceding 19 years.

MONTH and DAY, 1860.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
April 1	o	o	10	5, ci.-cu : 10, s, ci.-s, oc.-r : 2
2	s N, s P, sps, g cur	s N, : P, sps, g cur	10, r	10, hl, r : o
3	o	o : w	5, cu, ci.-cu	5, cu, ci.-cu, ci
4	o	w	10, s, ci.-s, h	9, s, ci.-s : 2, ci.-s, ci
5	o	w	7, ci.-cu, ci	10, ci.-cu, ci.-s
6	o	o : s	10, oc.-r	7, ci.-s, ci
7	o	o : w	10, ci.-s, h	7, cu, ci.-cu, ci : o
8			10, cu.-s, ci.-s	10, cu.-s, ci.-s : oc.-r
9	s :		10, cu.-s, ci.-s	10, ci.-cu, ci.-s, hl, r : 10, hl, t, l : o, a
10			7, cu, ci.-cu, ci	10, ci.-cu, ci.-s, hl, sl : o
11			10, ci.-cu, cu.-s	7, ci.-cu, ci.-s : 2, ci.-s, h
12		m	10	10 : o
13	o	o : w	10, oc.-r	10, cu.-s, ci.-s : o, f
14	o	s	10, oc.-r	10, shs.-r : o : 10
15	o	o	10, ci.-s, ci	10, cu, ci.-cu, ci : 10, oc.-r : 9
16	o	o	10, oc.-r : 8, ci.-cu, ci.-s	o
17			3, cu, ci.-cu, ci	3, cu, ci.-cu, ci : o
18			o	o : 7, cu, ci.-cu, ci
19			10, cu.-s, ci.-s, sl, sn	10, sl : 10, fr.-shs, r
20	o : N, w	o	5, ci.-cu, ci.-s : 10, h.-shs.-hl.-r	10 : 10, oc.-r
21	o	s N, s P, sps, g cur : o	8, ci.-cu, ci.-s	7, ci.-cu, ci.-s, oc.-r
22	o	s N, s P, sps, g cur	10, ci.-cu, ci.-s : 10, sl.-r	10, shs.-hl.-r
23	o	o : s N	8, ci.-cu, ci.-s, h	8, ci.-cu, cu.-s, ci.-s : 10, oc.-r
24	s N, s P, sps, g cur : o	o	10, sn, hl, r	10, r
25	o	o : m	7, cu.-s, ci.-s	10, cu.-s, ci.-s : 10, s, ci.-s
26	w	w : o	10, cu.-s, ci.-s	10, cu.-s, ci.-s
27	o	o	10 : 9, ci.-cu, cu.-s, ci.-s	10, ci.-cu, ci.-s : 10
28	o	v	7, ci.-cu, ci.-s	7, cu, ci.-cu, ci.-s : o
29	v	v : s, sps	o	o : 5, s, lu.-ha
30	o	v	10, ci.-cu, ci : o	o

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 47°·4 on the 16th; and the lowest was 27°·7 on the 11th.

The mean ,, was 36°·7, being 3°·4 lower than the average of the preceding 19 years.

Elastic Force of Vapour.—The mean for the month was 0ⁱⁿ·218, being 0ⁱⁿ·031 less than the average of the preceding 19 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2^{gr}·5, being 0^{gr}·4 less than the average of the preceding 19 years.

Degree of Humidity.—The mean for the month was 79 (that of Saturation being represented by 100), being the same as the average of the preceding 19 years.

Weight of a Cubic Foot of Air.—The mean for the month was 549 grains, being 5 grains greater than the average of the preceding 19 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. 10, S. 5, W. 7, and E. 8. The greatest pressure in the month was 12^{lbs}·0 on the square foot on the 19th.

RAIN.

Fell on 13 days in the month, amounting to 1ⁱⁿ·0, as measured in the simple cylinder gauge partly sunk below the ground; being 0ⁱⁿ·8 less than the average fall of the preceding 45 years.

ELECTRICITY.—April 8 to 12 and 17 to 19. The insulating lamp was out.

RESULTS OF ORDINARY METEOROLOGICAL OBSERVATIONS

Table with columns: MONTH and DAY, 1860; Phases of the Moon; Mean Daily Reading of the Barometer; READINGS OF THERMOMETERS (Dry, Dew Point, In the Water of the Thames); Difference between the Dew Point Temperature and Air Temperature; WIND AS DEDUCED FROM ANEMOMETERS (OSLER'S, General Direction, Pressure); WHF-WELL'S, ROBINSON'S; Amount of Horizontal Movement of the Air; Rain in Inches read at 9 P.M.

BAROMETER READINGS FROM EYE-OBSERVATIONS.

The first maximum in the month was 30.094 on the 4th; the first minimum in the month was 29.929 on the 2nd. The second maximum ,, was 29.712 on the 10th; the second minimum ,, was 29.427 on the 8th. The third maximum ,, was 29.788 on the 16th; the third minimum ,, was 29.516 on the 12th. The absolute maximum ,, was 30.216 on the 21st; the fourth minimum ,, was 29.228 on the 18th. The fifth maximum ,, was 29.892 on the 24th; the fifth minimum ,, was 29.736 on the 23rd. The sixth maximum ,, was 29.651 on the 27th; the absolute minimum ,, was 29.214 on the 26th. The seventh maximum ,, was 29.889 on the 29th; the seventh minimum ,, was 29.388 on the 28th.

The range in the month was 1.002.

The mean for the month was 29.746, being 0.016 lower than the average of the preceding 19 years.

TEMPERATURE OF THE AIR.

The highest in the month was 76.5 on the 23rd; the lowest was 32.5 on the 7th.

The range ,, was 44.0.

The mean ,, of all the highest daily readings was 65.5, being 1.2 higher than the average of the preceding 19 years.

The mean ,, of all the lowest daily readings was 44.6, being 0.5 higher than the average of the preceding 19 years.

The mean daily range was 20.9, being 0.7 higher than the average of the preceding 19 years.

The mean for the month was 53.8, being 1.0 higher than the average of the preceding 19 years.

MONTH and DAY, 1860.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
May 1	o : s, N	w	o	o
2	o	o : w	o	o
3	v	v	o, ci, ci.-s	o
4	o	s : o	10, ci.-s, h	o, h
5	o	o : s	10	10 : 7, ci.-s
6	v	v	3	o
7	w	w : s	7, ci.-s, ci	7, ci.-s, ci : 10 : 10, r
8	o	o : w	10	7, ci.-cu, ci.-s : 10
9	o	o : w	10, cu.-s., ci.-s	10 : o, h
10	o	o	10, r	10 : 10, h.-shs.-r
11	o	o : w	10, r	10, fr.-r : 3, ci.-s, ci
12	w	w : s	10, ci.-cu, ci	10, ci.-s, ci : 10, r
13	o	o : w	10, oc.-r	10 : o
14	o : N	N : o	10	10, h.-r : 3, ci.-s, ci
15	o	o : s N, s P, sps, g cur	8, ci.-cu, ci.-s, ci	5, ci.-cu, ci.-s : 10, l, t, h.-r
16	o	w : o	10, th.-r	10, cu.-s, ci.-s, oc.-r
17	o	o	10, th.-r	10, fr.-r
18	o	w : o	10, th.-r	10, cu.-s, ci.-s, r
19	o	w : o	3, ci, h	3, ci.-cu, ci
20	o	o : w	5, cu	5, cu, ci.-cu, ci.-s
21	w	w	o	o
22	m	m	5, ci	9, ci.-cu, ci.-s
23	w	w	10, ci.-s, ci	6, ci.-cu, ci : o
24	s	s	10, cu.-s, ci.-s	7, cu, ci.-cu, ci : 5, ci
25	v	v	10, cu.-s, ci.-s	10, cu.-s, ci.-s : 10, r
26	s N, s P, sps, g cur	s N, s P, sps, g cur	10, ci.-cu, ci.-s	6, cu.-s, ci.-s, shs.-r
27	o	o : s N : w	7, cu.-s, ci.-s	7, cu.-s, ci.-s, sl.-r : 10
28	o	o	5, ci.-cu, ci.-s	9, cu.-s, ci.-s, shs.-hl.-r : o
29	o	o : w	7, ci.-cu, ci.-s, sc	10, ci.-cu, cu.-s, ci.-s : 3, ci
30	o	w	7, ci.-cu, ci.-s	7, ci.-cu, ci.-s : 8, ci.-s, h
31	o	o	10, r	10, r

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 57°·1 on the 26th; and the lowest was 34°·4 on the 6th.

The mean ,, was 46°·1, being 0°·7 higher than the average of the preceding 19 years.

Elastic Force of Vapour.—The mean for the month was 0·312, being 0·012 greater than the average of the preceding 19 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 3·5, being 0·1 greater than the average of the preceding 19 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 19 years.

Weight of a Cubic Foot of Air.—The mean for the month was 536 grains, being 2 grains less than the average of the preceding 19 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by o and a cloudy sky by 10, was 6·5.

WIND.

The proportions were of N. 1, S. 7, W. 16, and E. 7. The greatest pressure in the month was 23^{lbs}·0 on the square foot on the 28th.

RAIN.

Fell on 14 days in the month, amounting to 3ⁱⁿ·9, as measured in the simple cylinder gauge partly sunk below the ground; being 1ⁱⁿ·8 greater than the average fall of the preceding 45 years.

RESULTS OF ORDINARY METEOROLOGICAL OBSERVATIONS

Table with columns: MONTH and DAY, 1860; Phases of the Moon; Mean Daily Reading of the Barometer; READINGS OF THERMOMETERS (Dry, Dew Point, In the Water of the Thames); Difference between the Dew Point Temperature and Air Temperature; WIND AS DEDUCED FROM ANEMOMETERS (OSLER'S, General Direction, Pressure); Amount of Horizontal Movement of the Air; Rain in Inches read at 9 P.M.

BAROMETER READINGS FROM EYE-OBSERVATIONS.

The absolute minimum in the month was 29.027 on the 2nd. The first maximum in the month was 29.738 on the 5th; the second minimum was 29.623 on the 6th. The second maximum was 29.730 on the 8th; the third minimum was 29.422 on the 9th. The third maximum was 29.724 on the 11th; the fourth minimum was 29.298 on the 12th. The fourth maximum was 29.600 on the 14th; the fifth minimum was 29.386 on the 17th. The fifth maximum was 29.696 on the 18th; the sixth minimum was 29.500 on the 30th. The sixth maximum was 29.862 on the 22nd; the seventh minimum was 29.566 on the 25th. The seventh maximum was 29.841 on the 26th; the eighth minimum was 29.628 on the 27th. The highest reading took place on the 30th at midnight, and was 30.125, the readings still increasing. The range in the month was 1.098. The mean for the month was 29.613, being 0.190 lower than the average of the preceding 19 years.

TEMPERATURE OF THE AIR.

The highest in the month was 74.0 on the 24th; the lowest was 43.5 on the 6th; and the range in the month was 30.5. The mean of all the highest daily readings was 65.0, being 6.5 lower than the average of the preceding 19 years. The mean of all the lowest daily readings was 48.5, being 1.8 lower than the average of the preceding 19 years. The mean daily range was 16.5, being 4.8 lower than the average of the preceding 19 years. The mean for the month was 54.8, being 4.4 lower than the average of the preceding 19 years.

MONTH and DAY, 1860.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
June 1			7, cu, ci.-cu, ci.-s	7, cu, ci.-cu, ci.-s : 10, sl.-r : 3, ci.-s
2			10, h.-r	10, h.-r : 10, r
3			10, ci.-s, sc, r	7, cu.-s, ci.-s, oc.-r : 10
4			10	10, cu.-s, ci.-s, r : 10, hl, r
5			10, cu.-s, ci.-s	6, ci.-cu, ci.-s, oc.-r
6			10, h.-r	10, t, hl, h.-r : 7, ci.-cu, ci.-s, r
7	o	s N : o	10, th.-r	9, ci.-cu, ci.-s : o
8	o	s N : o	5, ci.-cu, ci.-s	5, ci.-cu, ci.-s : 10, oc.-r
9	s N	s N	10, r	10, r : 10
10	o	o	10, h.-r	7, l, t, r : o, l
11	o	w	10	9, ci.-cu, ci.-s, ci
12	o	o	10, r	10, r : 7
13	o	o : w	7, cu, ci.-cu	7, cu, ci.-cu, ci : o
14	s N, s P, sps, g cur	v	o	5, cu, cu.-s, ci.-s, shs.-r : o
15	s N, s P, sps, g cur	m : s	10, cu, ci.-cu, ci.-s, shs.-r	5, cu, ci.-cu, ci : o
16	m	v	10, ci.-s	10, s, ci.-s, oc.-r
17	s N, s P	w	10, h.-r	10, r
18	o	w	10, r	5, cu, ci.-cu, ci : 5, cu, ci.-cu, ci
19	m	m	10, h.-r	10, oc.-r
20	v	v	10, s, ci.-s	10, oc.-r : 5, cu, cu.-s, h.-shs.-r
21	s	s N : w	9, cu, ci.-cu, ci	10, r : 7, cu.-s, ci.-s : 10, t.-r
22	m	m : s N, s P	8, ci.-cu, ci.-s	8, cu, ci.-cu, ci : 10, r
23	o	o : s	10, oc.-r	10, cu, ci.-cu, ci
24	s	s	10, cu.-s, ci.-s, r	10, cu.-s, ci.-s : 5, ci.-s, ci
25	s N	w	10, h.-r	10, r : 9, cu.-s, ci.-s
26	o	o : s	10, h.-r	7, ci.-cu, ci.-s : 3, ci.-s
27	o	o	10	10 : 10, oc.-r
28	o	w N : o	5, cu.-s, ci.-s	10, h.-r
29	w : s N, s P, sps, g cur	s N, s P, sps, g cur : o	7, s, ci.-s, fr.-r, t	10, cu.-s, ci.-s, h.-r, t
30	o	w	10, r	10 : 5, ci.-s, ci

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 60°·0 on the 24th; and the lowest was 43°·1 on the 8th.

The mean ,, was 49°·7, being 1°·1 lower than the average of the preceding 19 years.

Elastic Force of Vapour.—The mean for the month was 0ⁱⁿ·357, being 0ⁱⁿ·017 less than the average of the preceding 19 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 4^{gr}·0, being 0^{gr}·2 less than the average of the preceding 19 years.

Degree of Humidity.—The mean for the month was 82 (that of Saturation being represented by 100), being 9 greater than the average of the preceding 19 years.

Weight of a Cubic Foot of Air.—The mean for the month was 532 grains, being 1 grain greater than the average of the preceding 19 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 7·9.

WIND.

The proportions were of N. 2, S. 13, W. 13, and E. 2. The greatest pressure in the month was 23^{lb}·0 on the square foot on the 2nd.

RAIN.

Fell on 23 days in the month, amounting to 5ⁱⁿ·8 as measured in the simple cylinder gauge partly sunk below the ground; being 3ⁱⁿ·9 greater than the average fall of the preceding 45 years.

ELECTRICITY.—June 1 to 6. The insulating lamp was not burning.

RESULTS OF ORDINARY METEOROLOGICAL OBSERVATIONS

Main table with columns: MONTH and DAY, 1860; Phases of the Moon; Mean Daily Reading of the Barometer; READINGS OF THERMOMETERS (Dry, Dew Point, In the Water of the Thames); Difference between the Dew Point Temperature and Air Temperature; WIND AS DEDUCED FROM ANEMOMETERS (General Direction, Pressure); Amount of Horizontal Movement of the Air; Rain in Inches read at 9h P.M.

BAROMETER READINGS FROM EYE-OBSERVATIONS.

The absolute maximum in the month was 30.253 on the 2nd; the first minimum in the month was 29.997 on the 5th. The second maximum ,, was 30.162 on the 7th; the second minimum ,, was 29.660 on the 14th. The third maximum ,, was 29.802 on the 16th; the third minimum ,, was 29.526 on the 19th. The fourth maximum ,, was 29.730 on the 20th; the fourth minimum ,, was 29.530 on the 22nd. The fifth maximum ,, was 29.696 on the 22nd; the absolute minimum ,, was 29.504 on the 23rd. The sixth maximum ,, was 29.863 on the 25th; the sixth minimum ,, was 29.582 on the 28th. The seventh maximum ,, was 30.003 on the 30th; the seventh minimum ,, was 29.897 on the 30th. The range in the month was 0.256. The mean for the month was 29.845, being 0.043 higher than the average of the preceding 19 years.

TEMPERATURE OF THE AIR.

The highest in the month was 75.0 on the 17th; the lowest was 41.6 on the 5th; and the range in the month was 33.4. The mean ,, of all the highest daily readings was 69.2, being 4.8 lower than the average of the preceding 19 years. The mean ,, of all the lowest daily readings was 50.1, being 3.2 lower than the average of the preceding 19 years. The mean daily range was 19.1, being 1.6 lower than the average of the preceding 19 years. The mean for the month was 57.6, being 4.3 lower than the average of the preceding 19 years.

MONTH and DAY, 1860.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
July 1	s	s	10, ci.-cu, ci, h	10, ci.-cu, ci.-s
2	s	mN : m	o, h	10, s, ci.-s
3	v	o : m	10, ci.-s,	10, cu.-s, ci.-s, h
4	m	s : o	10, ci.-cu, ci.-s	8, ci.-s, ci : 10 ci.-s, m.-r : o
5	ss, sps	o	3, ci	o : 3, cu.-ci : o
6	o	s	10	10 : o
7	o	o : s	10, s, ci.-s	10 : 7, ci.-cu, ci.-s
8	s	s	10	7, ci.-cu, ci : 10, s, ci.-s
9	s	s	10	3, ci.-cu, ci.-s
10	v	v	10	10, cu.-s, ci.-s
11	v	v	10	10 : 9, cu, ci.-cu, ci
12	s	o	10, h	6, ci.-cu, ci.-s
13	o	o	10,	o : 5, ci, h
14	o	o	10, th.-r	10, cu, ci.-cu, ci : o
15	o	o	10	7, cu.-s, ci.-s
16	o	o	10, r	10, r : 10
17	o	s	10, ci.-cu, ci.-s	10, ci.-s
18	v	v	7, oc.-r	7, ci.-cu, ci.-s : 10, oc.-r
19	o	o	10, cu.-s, ci.-s, r	10, r : 5, cu, ci.-cu, ci : ci.-s, r
20	o	sN : o	10, ci.-s, h.-r	10, r
21	o	o	10, r	10, r : 1, ci
22	o	o	10, cu, cu.-s, s, r	7, cu, ci.-cu, s, shs.-r
23	o	o	10, ci.-cu, ci.-s, ci	10, r
24	o	o	10, ci.-cu, ci.-s	10, cu.-s, ci.-s, cc.-r
25	o	o	9, cu.-s, ci.-s	9, cu.-s, ci.-s
26	o	o	3, ci.-cu, ci, h	10, cu, ci.-cu, ci
27	o	o : m	10, ci.-cu, ci.-s	10, ci.-cu, ci
28	o	sN : o	10, h	10, h : 7, cu, ci.-cu, h : 10, l, t, r
29	o	w : o	9, cu.-s, ci.-s	9, ci.-s, ci : t.-s : 8, s, ci.-s
30	o	o : w	5, ci.-cu, ci.-s	5, ci.-cu, ci.-s, ci : 8, s, ci.-s
31	o	o	10, ci.-cu, ci.-s, h	10, ci.-cu, ci.-s, h

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 60°.1 on the 15th; and the lowest was 45°.1 on the 25th.

The mean , , was 52°.3, being 1°.6 lower than the average of the preceding 19 years.

Elastic Force of Vapour.—The mean for the month was 0ⁱⁿ.393, being 0ⁱⁿ.025 less than the average of the preceding 19 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 4^{gr}.4, being 0^{gr}.2 less than the average of the preceding 19 years.

Degree of Humidity.—The mean for the month was 83 (that of Saturation being represented by 100), being 7 greater than the average of the preceding 19 years.

Weight of a Cubic Foot of Air.—The mean for the month was 534 grains, being 7 grains greater than the average of the preceding 19 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 8.3.

WIND.

The proportions were of N. 12, S. 7, W. 8, and E. 4. The greatest pressure in the month was 6^{lb}.0 on the square foot on the 23rd.

RAIN.

Fell on 10 days in the month, amounting to 2ⁱⁿ.8, as measured in the simple cylinder gauge partly sunk below the ground; being 0ⁱⁿ.1 greater than the average fall of the preceding 45 years.

RESULTS OF ORDINARY METEOROLOGICAL OBSERVATIONS

Table with columns: MONTH and DAY, 1860.; Phases of the Moon.; Mean Daily Reading of the Barometer; READINGS OF THERMOMETERS (Dry, Dew Point, Water of the Thames); Difference between the Dew Point and Air Temperature; WIND AS DEDUCED FROM ANEMOMETERS (OSLER'S, General Direction, Pressure); Amount of Horizontal Movement of the Air; Rain in Inches read at 9 P.M.

BAROMETER READINGS FROM EYE-OBSERVATIONS.

The absolute maximum in the month was 29.926 on the 1st; the first minimum in the month was 29.390 on the 4th. The second maximum ,, was 29.564 on the 5th; the second minimum ,, was 29.223 on the 6th. The third maximum ,, was 29.765 on the 7th; the third minimum ,, was 29.483 on the 8th. The fourth maximum ,, was 29.737 on the 10th; the fourth minimum ,, was 29.427 on the 11th. The fifth maximum ,, was 29.671 on the 12th; the fifth minimum ,, was 29.217 on the 16th. The sixth maximum ,, was 29.806 on the 21st; the sixth minimum ,, was 29.312 on the 22nd. The seventh maximum ,, was 29.737 on the 23rd; the seventh minimum ,, was 29.514 on the 24th. The eighth maximum ,, was 29.747 on the 27th; the absolute minimum ,, was 29.186 on the 30th. The range in the month was 0.740. The mean for the month was 29.556, being 0.244 lower than the average of the preceding 19 years.

TEMPERATURE OF THE AIR.

The highest in the month was 70.8 on the 4th and 16th; the lowest was 45.5 on the 7th; and the range in the month was 25.3. The mean ,, of all the highest daily readings was 67.2, being 5.9 lower than the average of the preceding 19 years. The mean ,, of all the lowest daily readings was 51.8, being 1.7 lower than the average of the preceding 19 years. The mean daily range was 15.4, being 4.2 lower than the average of the preceding 19 years. The mean for the month was 57.7 being 3.8 lower than the average of the preceding 19 years.

Robinson's Anemometer was away for repair from August 3 to 25.

MONTH and DAY, 1860.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Aug. 1	o	o : w	10, h : 1, ci	10, s, ci-s : 10, h.-r
2	o	o	10, th.-r : 10, h	10, cu.-s, ci.-s, h
3	o	o	10, s, ci.-s	10, s, ci.-s
4	o	o	10	7, cu, ci.-cu, ci, shs.-r : o
5	o	o	7, ci.-cu, ci.-s	7, ci.-cu, ci.-s : 10, oc.-r
6	o	o	10, r	7, ci.-cu, ci.-s, oc.-r : 10, s, ci.-s, n, r
7	o	w : o	3, ci.-cu, ci.-s, sc	3, ci.-cu, ci.-s, sc : 10, ci.-cu, ci.-s
8	o	o	10, h.-r	10, r : 7, s, ci.-s
9	m	m	10, ci.-cu, ci.-s : 8, ci.-cu, ci.-s	8, ci.-cu, ci : 10, cu.-s, ci.-s
10	o	o	10, ci.-cu, ci.-s	3, cu, ci.-cu, ci : 10, cu.-s, ci.-s
11	s N, s P, sps, g cur	o	10, h.-r : 7, ci.-s, sc : 10, t, h.-r	8, s, ci.-s, t, h.-r
12	o	o	10	10 : shs.-r
13	o	o : s	10 : 9, ci.-cu, ci.-s	9 : 10, r
14	m	o	10, s, ci.-s	10, ci.-cu, ci.-s, r : 10, s, ci.-s
15	o	o	10, ci.-cu, ci	10, cu.-s, ci.-s : 10, r
16	o	o	10, r : 9, ci.-cu, ci.-s : 10	10, oc.-r : 10, h.-r
17	s N, sps, g cur	o	5, ci.-cu, ci.-s, ci	7, ci.-cu, ci.-s, shs.-r : o
18	o	o	10, r	10, fr.-r
19	o : w	w : o	10, cu.-s, ci.-s	10, ci.-s, fr.-r
20	o	o : w	10	8, ci.-cu, ci.-s : 10, shs.-r
21	o	w	10, s, ci.-s, h	10, ci.-cu, ci.-s : 5
22	o	o	10, r	10, r : s, ci.-s
23	o	o	o : 3, cu, ci.-cu, ci, sh.-r	10, cu, cu.-s, shs.-r
24	o	o	5, ci.-cu, ci.-s : 10, r	10, r
25	o	o	10, h.-r	10, r
26	o	o	5, ci.-cu, ci	7, cu, cu.-s, ci.-s : 10
27	o	o : s	10, r : 10	7, cu, ci.-cu, ci : 2, cu.-s
28	s N, s P, sps, g cur	o	9, ci.-cu, ci.-s	10, fr.-shs.-r
29	o	o : s	7, ci.-s, sc	7, cu, ci.-cu, ci, oc.-r : 5, ci.-s, ci
30	o	o	3, cu, cu.-s, sc	3, cu, ci.-cu : 10, sh.-r : 5, ci.-s, sc
31	o	o : s	8, ci.-s, ci, h	8, cu, ci.-cu, ci : 3, ci.-s, ci

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 61°·2 on the 25th ; and the lowest was 46°·8 on the 7th.

The mean ,, was 52°·5, being 1°·6 lower than the average of the preceding 19 years.

Elastic Force of Vapour.—The mean for the month was 0ⁱⁿ·396, being 0ⁱⁿ·027 less than the average of the preceding 19 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 4^{gr}·4, being 0^{gr}·3 less than the average of the preceding 19 years.

Degree of Humidity.—The mean for the month was 83 (that of Saturation being represented by 100), being 6 greater than the average of the preceding 19 years.

Weight of a Cubic Foot of Air.—The mean for the month was 528 grains, being the same as the average of the preceding 19 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by o and a cloudy sky by 10, was 8·3.

WIND.

The proportions were ; N. 1, S. 9, W. 21, and E. o. The greatest pressure in the month was 7^{lbs}·0 on the square foot on the 25th.

RAIN.

Fell on 25 days in the month, amounting to 3ⁱⁿ·7, as measured in the simple cylinder gauge partly sunk below the ground ; being 1ⁱⁿ·3 greater than the average fall of the preceding 45 years.

RESULTS OF ORDINARY METEOROLOGICAL OBSERVATIONS

Table with columns: MONTH and DAY, 1860; Phases of the Moon; Mean Daily Reading of the Barometer; READINGS OF THERMOMETERS (Dry, Dew Point, In the Water of the Thames); Difference between the Dew Point Temperature and Air Temperature; WIND AS DEDUCED FROM ANEMOMETERS (OSLER'S, General Direction, Pressure); Amount of Horizontal Movement of the Air; Rain in Inches read at 9 P.M.

BAROMETER READINGS FROM EYE-OBSERVATIONS.

The absolute maximum in the month was 30.258 on the 6th; the first minimum in the month was 29.890 on the 8th. The second maximum ,, was 30.250 on the 12th; the second minimum ,, was 29.386 on the 15th. The third maximum ,, was 29.559 on the 16th; the absolute minimum ,, was 29.305 on the 19th. The fourth maximum ,, was 29.879 on the 21st; the fourth minimum ,, was 29.426 on the 24th. The fifth maximum ,, was 29.725 on the 25th; the fifth minimum ,, was 29.566 on the 27th. The range in the month was 0.953. The mean for the month was 29.762, being 0.070 lower than the average of the preceding 19 years.

TEMPERATURE OF THE AIR.

The highest in the month was 69.7 on the 8th; the lowest was 35.7 on the 12th. The range ,, was 34.0. The mean ,, of all the highest daily readings was 63.4, being 4.3 lower than the average of the preceding 19 years. The mean ,, of all the lowest daily readings was 45.8, being 3.3 lower than the average of the preceding 19 years. The mean daily range was 17.6, being 1.0 lower than the average of the preceding 19 years. The mean for the month was 53.4, being 3.7 lower than the average of the preceding 19 years.

MONTH and DAY, 1860.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Sept. 1	o	o : s N, s P, sps, gcur	3, ci.-cu, ci	3, ci.-cu, ci : 10, r : o
2	o	w	7, ci.-s, ci, h	7, ci.-cu, ci.-s, h
3	s	o : s	o	10, cu, ci.-cu, h.-shs. r : 10, gt.-glm
4	o	o	7, ci.-cu, ci, h	7, ci.-cu, ci.-s, h : 10, s, ci.-s : o, h
5	w	o	3, ci.-cu, ci.-s, h	10, cu.-s, ci.-s
6	o	w	10, ci.-s	10 : 2, ci
7	o	o : s	8, ci.-cu, ci.-s	5, cu, ci.-cu : o
8	o	o : m	10, f : 8, ci.-cu, ci.-s, h	7, ci.-cu, ci.-s : 10, s, ci.-s
9	v	v	10	10
10	s	s : o	2, ci.-cu, ci.-s	9, cu, ci.-cu, ci, r : o
11	s	s	o	7, cu, ci.-cu, ci : o
12	v	v	10, ci.-cu, ci, h	2, cu, ci : o
13	w	s	o	2, cu, ci
14	o	o	10, r : 5, ci.-s, sc	o
15	o	o : s	10, s, ci.-s	10, ci.-cu, ci.-s, oc.-r
16	m	o	10, ci.-s, li.-cl	10, s, ci.-s, th.-r
17	o	o : w	10	10, oc.-r : 10, h.-r
18	o	o	10, r	10, fr.-r
19	v	v	10, h.-r	10 : o, f
20	s	s : o	10	2, cu, ci.-cu : 8, ci.-cu, ci.-s
21	w	o : s	10, ci.-cu, ci.-s, r	10, cu.-s, ci.-s : o
22	o	m	10, th.-r	10, h.-r
23	o	s	10	10
24	s	s : w N	7, ci.-s, ci, h : 10, s, ci.-s	10 : 10, h.-r
25	s N	s N : s	10, h.-r	7, ci.-cu, ci.-s, h : o
26	v, sps, gcur	o : w	10, ci.-cu, ci.-s	10, h.-r : 2, ci.-cu, ci.-s : 10, h.-r
27	o : s N	s N : s	10, h.-r : 8, ci.-cu, ci.-s, fr.-r	10, cu.-s, ci.-s
28	o	m	10, r	10, r : 10
29	o	w	10, th.-r	10, th.-r : 10
30	m	m	7, ci.-cu, ci, h	10, ci.-s

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 59°·9 on the 8th; and the lowest was 42°·9 on the 25th.

The mean ,, was 50°·2, being 0°·9 lower than the average of the preceding 19 years.

Elastic Force of Vapour.—The mean for the month was 0ⁱⁿ·364, being 0ⁱⁿ·019 less than the average of the preceding 19 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 4^{gr}·1, being 0^{gr}·1 less than the average of the preceding 19 years.

Degree of Humidity.—The mean for the month was 88 (that of Saturation being represented by 100), being 7 greater than the average of the preceding 19 years.

Weight of a Cubic Foot of Air.—The mean for the month was 537 grains, being 3 grains greater than the average of the preceding 19 years.

CLOUDS.

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

WIND.

The proportions were; N. 7, S. 8, W. 10, and E. 5. The greatest pressure in the month was 9^{lbs}·0 on the square foot on the 25th.

RAIN.

Fell on 17 days in the month, amounting to 3ⁱⁿ·1, as measured in the simple cylinder gauge partly sunk below the ground; being 0ⁱⁿ·7 greater than the average fall of the preceding 45 years.

Table with columns: MONTH and DAY, 1860.; Phases of the Moon.; Mean Daily Reading of the Barometer; READINGS OF THERMOMETERS. (Dry, Dew Point, etc.); Difference between the Dew Point Temperature and Air Temperature.; WIND AS DEDUCED FROM ANEMOMETERS. (OSLER'S, General Direction, Pressure, etc.); Amount of Horizontal Movement of the Air; Rain in Inches read at 9 P.M.

BAROMETER READINGS FROM EYE-OBSERVATIONS.

The first maximum in the month was 30.185 on the 2nd; the first minimum in the month was 29.958 on the 3rd. The absolute maximum ,, was 30.276 on the 4th; the second minimum ,, was 29.892 on the 5th. The third maximum ,, was 30.183 on the 6th; the third minimum ,, was 29.812 on the 9th. The fourth maximum ,, was 30.038 on the 9th; the fourth minimum ,, was 29.336 on the 11th. The fifth maximum ,, was 29.773 on the 12th; the absolute minimum ,, was 29.330 on the 13th. The sixth maximum ,, was 29.693 on the 14th; the sixth minimum ,, was 29.365 on the 16th. The seventh maximum ,, was 29.884 on the 17th; the seventh minimum ,, was 29.436 on the 18th. The eighth maximum ,, was 29.600 on the 19th; the eighth minimum ,, was 29.432 on the 19th. The ninth maximum ,, was 30.100 on the 21st; the ninth minimum ,, was 29.791 on the 26th. The tenth maximum ,, was 30.073 on the 30th.

The range in the month was 0.946. The mean for the month was 29.856, being 0.174 higher than the average of the preceding 19 years.

TEMPERATURE OF THE AIR.

The highest in the month was 68.5 on the 28th; the lowest was 32.4 on the 12th; and the range in the month was 36.1. The mean ,, of all the highest daily readings was 58.6, being 0.3 higher than the average of the preceding 19 years. The mean ,, of all the lowest daily readings was 44.5, being 0.8 higher than the average of the preceding 19 years. The mean daily range was 14.1, being 0.5 lower than the average of the preceding 19 years. The mean for the month was 50.6, being 0.9 higher than the average of the preceding 19 years.

MONTH and DAY, 1860.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Oct. 1	w	w	10, f	10, h
2	s	s	8, ci.-cu, ci.-s	2, ci.-cu, ci : 8, lu.-ha
3	m	o	5, s, ci.-s, sc	5, ci.-s, sc : 10, ci.-s : o
4	s	o : s	o, h	7, ci.-cu, ci.-s : o
5	o	o : m	10, s, ci.-s, sc	10, ci.-s, sc : 2, ci, f
6	w	w	10, cu.-s, ci.-s : 9, ci.-cu, ci	o
7	v	v	10	5 : 10
8	v	v	7, ci.-cu, ci.-s	7, ci.-cu, ci.-s : o
9	sN	s	10, cu.-s, ci.-s, oc.-r	7, cu, ci.-cu, ci
10			10, ci.-s, oc.-r	10, ci.-s, sc, r
11			10, r	10, h.-r : o
12			3, ci, h, h.-fr	3, ci.-s : 10
13			10, r : 9, ci.-s, ci : 10	10, r : 10
14			10, oc.-r	10 : o
15			10, oc.-r	10, r
16			10, r	10, h.-r : o
17			o	3, ci.-cu, ci : o
18			10, r	10, ci.-s, oc.-r : o
19			10, cu.-s, ci.-s	10, ci.-cu, ci.-s : 5
20			o : 7, ci.-cu, ci	3, ci.-cu, ci : o
21			10, ci.-s	10, cu.-s, ci.-s
22			3, ci	3, ci : o
23			10	10, cu.-s, ci.-s : 10
24			10 : 2, ci.-s, ci	10, ci.-s : 10, th.-r
25	o	o	10	10, oc.-r : 3, ci : 10, ci.-s
26	o	o : w	10, cu.-s, ci.-s	8, ci.-s, ci
27	o	o : w	8, ci.-s	8, ci.-cu, ci.-s
28	o	o : s	9, ci.-cu, ci.-s	9, ci.-cu, ci.-s : o, f
29	s	s	10, th.-f. : 9, ci.-cu, ci.-s	7, ci.-s, ci : o
30	s	s : sps	7, ci.-cu, ci.-s, f	o : 10, s, th.-f
31	s	s	10	9, ci.-cu, ci.-s : 5 : 9, f

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 57°·5 on the 29th; and the lowest was 31°·5 on the 12th.

The mean „ was 47°·5 being 1°·6 higher than the average of the preceding 19 years.

Elastic Force of Vapour.—The mean for the month was 0¹²·329 being 0¹¹·018 greater than the average of the preceding 19 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 3⁸⁷·7, being 0⁸⁷·2 greater than the average of the preceding 19 years.

Degree of Humidity.—The mean for the month was 89 (that of Saturation being represented by 100), being 2 greater than the average of the preceding 19 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 19 years.

CLOUDS.

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

WIND.

The proportions were; N. 3, S. 11, W. 15, and E. 2. The greatest pressure in the month was 10⁶⁵·0 on the square foot on the 18th.

RAIN.

Fell on 10 days in the month, amounting to 1¹¹·6, as measured in the simple cylinder gauge partly sunk below the ground; being 1¹¹·2 less than the average fall of the preceding 45 years.

ELECTRICITY.—October 10 to 24. The insulating lamp was not burning.

(cl)

RESULTS OF ORDINARY METEOROLOGICAL OBSERVATIONS

Table with columns: MONTH and DAY, 1860.; Phases of the Moon.; Mean Daily Reading of the Barometer; READINGS OF THERMOMETERS (Dry, Dew Point, Water of the Thames); Difference between Dew Point and Air Temperature; WIND AS DEDUCED FROM ANEMOMETERS (General Direction, Pressure, Amount of Horizontal Movement); Rain in Inches read at 9 P.M.

BAROMETER READINGS FROM EYE-OBSERVATIONS.

The first minimum in the month was 29ⁱⁿ.900 on the 1st.

The absolute maximum in the month was 30ⁱⁿ.359 on the 7th; the second minimum ,, was 29ⁱⁿ.139 on the 15th.
The second maximum ,, was 29ⁱⁿ.484 on the 16th; the absolute minimum ,, was 29ⁱⁿ.103 on the 17th.
The third maximum ,, was 29ⁱⁿ.983 on the 19th; the fourth minimum ,, was 29ⁱⁿ.351 on the 22nd.
The fourth maximum ,, was 29ⁱⁿ.658 on the 24th; the fifth minimum ,, was 29ⁱⁿ.252 on the 26th.
The fifth maximum ,, was 29ⁱⁿ.712 on the 29th; the sixth minimum ,, was 29ⁱⁿ.462 on the 30th.

The range in the month was 1ⁱⁿ.256.

The mean for the month was 29ⁱⁿ.696, being 0ⁱⁿ.064 lower than the average of the preceding 19 years.

TEMPERATURE OF THE AIR.

The highest in the month was 55^o.3 on the 1st; the lowest was 28^o.5 on the 3rd; and the range in the month was 26^o.8.

The mean ,, of all the highest daily readings was 46^o.7, being 2^o.7 lower than the average of the preceding 19 years.

The mean ,, of all the lowest daily readings was 35^o.3, being 2^o.6 lower than the average of the preceding 19 years.

The mean daily range was 11^o.4, being 0^o.2 lower than the average of the preceding 19 years.

The mean for the month was 40^o.8, being 2^o.7 lower than the average of the preceding 19 years.

MONTH and DAY, 1860.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Nov. 1	v	v	8, ci.-cu, ci.-s	: 2, ci
2	s	s	o, h.-fr	
3	s	s	10, th.-f	: o
4	w	w	10	10
5	w	w	10, ci.-s, sc	10
6	w	w	10	10
7	w	w	10, s, ci.-s	10, ci.-cu, ci.-s
8			10, h.-fr	: o
9			10	10, oc.-r : 5, ci.-s, ci : 10
10			10, h.-r	10, fr.-r
11			10	10, ci.-s : 7, li.-cl
12			10, ci.-cu, ci.-s, h.-fr	10, cu.-s, ci.-s
13			10, ci.-s, h	10, ci.-s : 10, f
14			10, th.-r	10 : 10, h.-r
15			10, h.-r : 7, ci.-cu, ci.-s	5, ci.-cu, ci.-s : m
16			5, ci.-cu, ci.-s	5, ci.-cu, ci.-s : f
17			10, r	10, h.-r
18			5, ci, h	o : 10, ci.-s
19			7, ci.-cu, ci.-s, f	7, ci.-cu, ci.-s
20			10	10, ci.-cu, ci.-s
21			10, oc.-r	10, r
22		w	10, r	7, ci.-s, ci, h
23	o	o	10, th.-f : 5, ci.-cu, ci.-s	o, h : 10,
24	o	o	10 : 7, ci.-cu, ci.-s	10 : 9, ci.-cu, ci : o ci.-s, sc
25	o	o	7, s, ci, li.-cl : 10, oc.-r	10, oc.-r
26	o	o	10 : 10, r	10, r
27	o	o	10, ci.-s, sc	7, ci.-s, sc : 10, ci.-s, sc
28	o	o	10	10, sl.-r
29	o	w	10, h	10, oc.-r
30	o	o	10 : 10, oc.-r	10, oc.-r : 10 : o

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 48°·3 on the 30th; and the lowest was 29°·2 on the 18th.

The mean " " was 38°·9, being 1°·3 lower than the average of the preceding 19 years.

Elastic Force of Vapour.—The mean for the month was 0ⁱⁿ·237 being 0ⁱⁿ·019 less than the average of the preceding 19 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 28^{gr}·7, being 0^{gr}·2 less than the average of the preceding 19 years.

Degree of Humidity.—The mean for the month was 93 (that of the Saturation being represented by 100), being 4 greater than the average of the preceding 19 years.

Weight of a Cubic Foot of Air.—The mean for the month was 550 grains, being 3 grains greater than the average of the preceding 19 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 7·9.

WIND.

The proportions were; N. 7, S. 5, W. 5, and E. 13. The greatest pressure in the month was 7^{lbs}·0 on the square foot on the 21st.

RAIN.

Fell on 11 days in the month, amounting to 2ⁱⁿ·5, as measured in the simple cylinder gauge partly sunk below the ground; being 0ⁱⁿ·1 greater than the average fall of the preceding 45 years.

ELECTRICITY.—November 8 to 22. The insulating lamp was not burning.

RESULTS OF ORDINARY METEOROLOGICAL OBSERVATIONS

Table with columns: MONTH and DAY, 1860; Phases of the Moon; READINGS OF THERMOMETERS (Dry, Dew Point, Water of the Thames); Difference between Dew Point and Air Temperature; WIND AS DEDUCED FROM ANEMOMETERS (General Direction, Pressure); WHEWELL'S and ROBINSON'S; Amount of Horizontal Movement of the Air; Rain in Inches read at 9 P.M.

BAROMETER READINGS FROM EYE-OBSERVATIONS.

The first maximum in the month was 29.672 on the 1st; the first minimum in the month was 29.213 on the 4th. The second maximum ,, was 29.376 on the 5th; the absolute minimum ,, was 28.632 on the 8th. The third maximum ,, was 30.134 on the 15th; the third minimum ,, was 29.262 on the 19th. The fourth maximum ,, was 29.744 on the 21st; the fourth minimum ,, was 29.177 on the 25th. The fifth maximum ,, was 29.435 on the 26th; the fifth minimum ,, was 29.320 on the 27th. The absolute maximum ,, was 30.230 on the 29th; the sixth minimum ,, was 29.253 on the 30th. The seventh maximum ,, was 29.554 on the 31st. The range in the month was 1.598. The mean for the month was 29.491, being 0.330 lower than the average of the preceding 19 years.

TEMPERATURE OF THE AIR.

The highest in the month was 54.0 on the 6th; the lowest was 8.0 on the 25th; and the range in the month was 46.0. The mean ,, of all the highest daily readings was 40.6, being 4.6 lower than the average of the preceding 19 years. The mean ,, of all the lowest daily readings was 32.0, being 3.7 lower than the average of the preceding 19 years. The mean daily range was 8.6, being 0.9 lower than the average of the preceding 19 years. The mean for the month was 36.3, being 4.0 lower than the average of the preceding 19 years.

MONTH and DAY, 1860.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Dec. 1	o	o	o	10, ci.-s, ci : 10, h.-r
2	o	o	7	7 : 10, r
3	o : s, N	s, N : o	10, ci.-s	10, ci.-s, oc.-r : 8
4	o	o	10, fr.-r	10, r : 10, f
5	o	o	10, f	10, th.-r. : 10 : o
6	o	o	10, th.-r	10, h.-r
7	o	o	7, ci.-cu, ci.-s	10, oc.-r : 9, cu.-s, ci.-s : 10, h.-r
8			10, s, ci.-s	10, h.-r : 10, th.-r : o
9			10, ci.-s, f	5, ci, h : 10
10	o	o : w	o	5, ci.-cu, ci : o
11	o	s, N : o	10, th.-f	10, s, ci.-s, sc : 10, th.-r
12	w	o : m	10, ci.-s, h	10, ci.-s, ci, th.-r : 10, oc.-r
13	o	o	10, f	10 : o
14	o	o	10	10 : 2, ci.-s, h
15	w : o	o	10, th.-f	10 : 10, oc.-r
16	o	o	10, f	10 : 10, h.-r
17	N, w : o	o	10, oc.-r	o : 5
18	o	o : w	o, h.-fr	7, ci.-cu, ci : o, h.-fr
19	o	o : m	o, h.-fr	o : 6, ci : 9, ci.-s
20	o	o	o, h.-fr	10, cu.-s, ci.-s
21	o	m	10, ci.-s, sn	10, ci.-s, oc.-sn
22	o	o	10, sn	10, sn, sl : 10, cu.-s, ci.-s, sc
23	s	s	7, ci.-cu, ci, li.-cl	7, ci.-s : o
24	o	o : w	10, ci.-s, h	10, ci.-s, h : o, f
25	o	o	o, h.-fr	10, ci, so.-ha
26	o	w	o	o : 10, ci.-s, lu.-ha
27	o	o : s	10, sn	10, sn
28	o	o	7, ci.-cu, ci.-s	8, ci.-cu, ci.-s, ci : o : ci.-s, f
29	o	s	7, ci, h.-fr	5, ci : 10, ci.-s
30	o	o : m	10, sn, hl, r	10, th.-r
31	o	s	10	10, r

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 52°.4 on the 6th; and the lowest was -1°.3 on the 25th and 29th.

The mean , , was 33°.4, being 3°.7 lower than the average of the preceding 19 years.

Elastic Force of Vapour.—The mean for the month was 0ⁱⁿ.191, being 0ⁱⁿ.036 less than the average of the preceding 19 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2^{gr}.2, being 0^{gr}.4 less than the average of the preceding 19 years.

Degree of Humidity.—The mean for the month was 92 (that of Saturation being represented by 100), being 3 greater than the average of the preceding 19 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 19 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by o and a cloudy sky by 10, was 7.9.

WIND.

The proportions were of N. 9, S. 7, W. 8, and E. 7. The greatest pressure in the month was 13^{lbs}.0 on the square foot on the 6th.

RAIN.

Fell on 16 days in the month, amounting to 2ⁱⁿ.8, as measured in the simple cylinder gauge partly sunk below the ground; being 0ⁱⁿ.9 greater than the average fall of the preceding 45 years.

ELECTRICITY.—December 8 and 9. The insulating lamp was out.

MAXIMA AND MINIMA BAROMETER-READINGS,

MAXIMA AND MINIMA READINGS OF THE BAROMETER.

The following table contains the highest and lowest readings of the Barometer, reduced to 32° Fahrenheit, extracted from the photographic records. The readings are accurate ; but the times are liable to great uncertainty, as the barometer frequently remains at its highest or lowest point through several hours. The time given is the middle of the stationary period. Where the symbol : follows the time, it denotes that the quicksilver has been sensibly stationary through a period of more than one hour.

Table with 4 main columns for MAXIMA and MINIMA readings, each subdivided into Approximate Mean Solar Time and Reading. The table lists data for the months of January, February, March, April, May, June, July, and August, with columns for days, hours, minutes, and seconds.

MAXIMA AND MINIMA READINGS OF THE BAROMETER—concluded.

MAXIMA.				MINIMA.				MAXIMA.				MINIMA.					
Approximate Mean Solar Time, 1860.		Reading.		Approximate Mean Solar Time, 1860.		Reading.		Approximate Mean Solar Time, 1860.		Reading.		Approximate Mean Solar Time, 1860.		Reading.			
d	h	m	in.	d	h	m	in.	d	h	m	in.	d	h	m	in.		
August	12.	9.	45:	29	·671	August	11.	4.	0:	29	·427	October	18.	21.	0	29	·600
	21.	3.	0	29	·806		16.	5.	40:	29	·217		20.	21.	30:	30	·100
	22.	23.	0:	29	·737		22.	3.	30:	29	·312		29.	21.	40	30	·073
	27.	10.	15:	29	·747		24.	11.	10:	29	·514	November	6.	21.	0:	30	·359
September	6.	11.	0:	30	·258		29.	16.	55	29	·018		16.	0.	15:	29	·484
	11.	15.	0:	30	·250	September	8.	4.	0:	29	·890		19.	4.	45:	29	·983
	16.	0.	45:	29	·559		15.	2.	30:	29	·386		23.	21.	0	29	·658
	21.	5.	30:	29	·879		18.	20.	45:	29	·305		28.	21.	50:	29	·712
	25.	9.	30	29	·725		24.	16.	0:	29	·135		30.	22.	30	29	·680
October	1.	23.	0:	30	·185		27.	4.	55:	29	·566	December	5.	9.	0:	29	·376
	3.	22.	0:	30	·276	October	2.	22.	0:	29	·958		14.	22.	45	30	·144
	5.	21.	30	30	·193		5.	3.	0	29	·892		20.	20.	0:	29	·744
	9.	12.	15:	30	·100		8.	21.	30:	29	·812		26.	4.	30:	29	·435
	12.	4.	0:	29	·773		10.	18.	0:	29	·295		28.	20.	45	30	·230
	14.	11.	45:	29	·693		13.	13.	0:	29	·330		31.	3.	30	29	·554
	17.	8.	20:	29	·884		15.	20.	15:	29	·365						

MONTHLY MEANS OF RESULTS FOR METEOROLOGICAL ELEMENTS at the ROYAL OBSERVATORY, GREENWICH, in the Year 1860.

1860, MONTH.	Mean Reading of the Barometer.	TEMPERATURE OF THE AIR.							Mean Tempera- ture of Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a Cubic Foot of Air.	Mean additional Weight required to saturate a Cubic Foot of Air.
		Highest.	Lowest.	Range in the Month.	Mean of all the Highest.	Mean of all the Lowest.	Mean Daily Range.	Mean Tempera- ture.				
January ..	29·515	55·5	27·5	28·0	45·0	34·8	10·2	39·7	36·2	0·214	2·5	0·4
February..	29·857	53·5	23·2	30·3	42·5	30·1	12·4	35·7	30·4	0·170	2·0	0·4
March	29·657	59·5	23·5	36·0	49·2	35·0	14·2	41·1	35·0	0·204	2·4	0·6
April	29·796	65·0	28·2	36·8	53·7	35·6	18·1	42·9	36·7	0·218	2·5	0·7
May	29·746	76·5	32·5	44·0	65·5	44·6	20·9	53·8	46·1	0·312	3·5	1·1
June	29·613	74·0	43·5	30·5	65·0	48·5	16·5	54·8	49·7	0·357	4·0	0·9
July	29·845	75·0	41·6	33·4	69·2	50·1	19·1	57·6	52·3	0·393	4·4	0·9
August ...	29·556	70·8	45·5	25·3	67·2	51·8	15·4	57·7	52·5	0·396	4·4	0·9
September.	29·762	69·7	35·7	34·0	63·4	45·8	17·6	53·4	50·2	0·364	4·1	0·5
October ...	29·856	68·5	32·4	36·1	58·6	44·5	14·1	50·6	47·5	0·329	3·7	0·5
November .	29·696	55·3	28·5	26·8	46·7	35·3	11·4	40·8	38·9	0·237	2·7	0·3
December .	29·491	54·0	8·0	46·0	40·6	32·0	8·6	36·3	33·4	0·191	2·2	0·3
Means	29·699	64·8	30·9	33·9	55·6	40·7	14·9	47·0	42·4	0·282	3·2	0·6

1860, MONTH.	Mean Degree of Humidity. (Sat. = 100.)	Mean Weight of a Cubic Foot of Air.	Mean Amount of Cloud. 0-10	RAIN.		WIND.												From Whe- well's Anemo- meter.	From Robin- son's Anemo- meter.
				Number of Rainy Days.	Amount collected on the Ground.	From Osler's Anemometer.													
						Number of Days for Mean Direction of the Wind referred to different Points of Azimuth.								Number of Calm Days and Days on which the Pressure of the Wind was less than ½ lb. on the Sq. Foot.	Mean Daily Pressure in lbs. on Square Foot.	Mean Daily Horizontal Movement of Wind in Miles.			
						N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.						
January...	88	548	6·9	21	1·8	2	0	1	4	5	12	4	3	0	1·44	159	247		
February..	80	559	6·5	13	1·1	6	7	1	0	3	4	5	3	0	1·82	132	313		
March	79	549	7·5	18	1·9	2	3	0	0	1	11	8	6	0	1·57	146	342		
April	79	549	7·0	13	1·0	3	10	3	2	1	3	4	4	0	1·09	99	260		
May	75	536	6·5	14	3·9	0	2	5	2	1	11	7	2	1	0·89	91	246		
June	82	532	7·9	23	5·8	2	1	0	2	1	19	5	0	0	0·85	115	269		
July	83	534	8·3	10	2·8	6	7	1	0	0	10	1	5	1	0·15	57	172		
August ...	83	528	8·3	25	3·7	1	0	0	0	2	17	9	2	0	0·85	120	..		
September.	88	537	7·4	17	3·1	4	4	1	2	1	10	5	1	2	0·35	69	200		
October ...	89	541	6·8	10	1·6	0	2	0	2	2	14	10	1	0	0·70	102	260		
November .	93	550	7·9	11	2·5	0	8	8	2	2	5	1	2	2	0·57	66	184		
December .	92	551	7·9	17	2·8	4	3	6	3	3	4	5	2	1	0·36	65	190		
Means	84	543	7·4	Sum 192	Sum 32·0	Sum 30	Sum 47	Sum 26	Sum 19	Sum 22	Sum 120	Sum 64	Sum 31	Sum 7	..	..	..

During the greater part of the month of August, Robinson's Anemometer was under repair. Whewell's Anemometer was not at work during 10 days of January; and Robinson's Anemometer was not at work during 5 days of January, 11 days of February, and 12 days of April. The mean horizontal movement for these months has been formed from the remaining days.

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, 1860.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
a	o	o	o	o	o	o	o	o	o	o	o	o
1	S	51·55	50·65	S	48·92	48·51	S	49·25	50·07	50·76	51·29	51·35
2	52·48	51·52	50·60	49·57	48·90	48·44	48·65	49·26	S	50·80	51·27	S
3	52·48	51·49	50·58	49·55	48·88	S	48·66	49·30	50·12	50·83	51·27	51·34
4	52·42	51·46	S	49·55	48·83	48·50	48·70	49·32	50·15	50·83	S	51·35
5	52·40	S	50·52	49·51	48·83	48·49	48·70	S	50·18	50·86	51·27	51·35
6	52·37	51·40	50·48	GoodFriday.	S	48·47	48·72	49·38	50·20	50·90	51·30	51·36
7	52·34	51·35	50·32	49·47	48·80	48·47	48·72	49·39	50·22	S	51·30	51·35
8	S	51·35	50·35	S	48·78	48·47	S	49·40	50·26	50·90	51·29	51·34
9	52·28	51·30	50·35	49·40	48·77	48·46	48·76	49·44	S	50·88	51·28	S
10	52·50	51·25	50·33	49·36	48·77	S	48·78	49·48	50·29	50·90	51·28	51·32
11	52·23	51·23	S	49·35	48·75	48·47	48·80	49·50	50·32	50·91	S	51·30
12	52·22	S	50·28	49·30	48·73	48·45	48·80	S	50·34	50·91	51·30	51·26
13	51·50	51·17	50·24	49·27	S	48·47	48·80	49·55	50·36	50·96	51·31	51·29
14	52·15	51·12	50·20	49·26	48·72	48·47	48·87	49·58	50·40	S	51·32	51·26
15	S	51·10	50·17	S	48·70	48·47	S	49·56	50·40	51·00	51·33	51·23
16	52·08	51·07	50·15	49·20	48·63	48·49	48·90	49·64	S	51·03	51·30	S
17	52·05	51·05	50·12	49·20	48·60	S	48·92	49·65	50·45	51·05	51·32	51·20
18	51·97	51·02	S	49·18	48·60	48·50	48·92	49·66	50·40	51·05	S	51·17
19	52·00	S	50·05	49·12	48·60	48·50	48·95	S	50·48	51·06	51·32	51·15
20	51·97	50·93	50·02	49·10	S	48·50	48·97	49·73	50·52	51·10	51·30	51·13
21	51·93	50·91	49·96	49·10	48·60	48·51	48·97	49·77	50·52	S	51·34	51·12
22	S	50·87	49·93	S	48·60	48·52	S	49·77	50·56	51·07	51·35	51·12
23	51·86	50·85	49·90	49·03	48·54	48·53	49·03	49·80	S	51·16	51·28	S
24	51·83	50·80	49·85	49·00	48·54	S	49·00	49·83	50·58	51·19	51·36	51·09
25	51·80	50·78	S	49·00	48·52	48·56	49·06	49·86	50·57	51·22	S	ChristmasDay.
26	51·75	S	49·80	48·84	48·53	48·57	49·10	S	50·62	51·22	51·35	51·07
27	51·72	50·72	49·76	48·90	S	48·57	49·07	49·92	50·65	51·22	51·36	51·07
28	51·64	50·72	49·75	48·95	48·47	48·58	49·13	49·95	50·68	S	51·36	51·05
29	S	50·67	49·72	S	48·52	48·60	S	49·98	50·70	51·23	51·34	51·00
30	51·64		49·68	48·93	48·52	48·62	49·18	50·02	S	51·28	51·35	S
31	51·60		49·65		48·50		49·21	50·05		51·26		51·02
Means	52·07	51·11	50·12	49·21	48·67	48·51	48·90	49·63	50·40	51·02	51·31	51·21

January 13. The reading is evidently erroneous; it has not been used in deducing the mean.

(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, 1860.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
a	o	o	o	o	o	o	o	o	o	o	o	o
1	S	47·93	46·30	S	45·95	47·92	S	52·40	53·62	54·00	52·97	51·17
2	49·57	47·90	46·22	45·33	45·96	47·90	50·21	52·45	S	54·03	52·90	S
3	49·52	47·82	46·18	45·33	45·97	S	50·32	52·50	53·70	54·05	52·83	50·97
4	49·36	47·83	S	45·38	45·96	48·23	50·40	52·56	53·72	54·00	S	50·91
5	49·32	S	46·07	45·38	45·98	48·30	50·44	S	53·82	53·98	52·78	50·82
6	49·23	47·65	45·98	GoodFriday.	S	48·38	50·51	52·61	53·72	53·98	52·76	50·79
7	49·18	47·63	45·93	45·40	46·05	48·50	50·61	52·67	53·78	S	52·72	50·72
8	S	47·60	45·90	S	46·10	48·59	S	52·69	53·78	53·88	52·70	50·62
9	49·10	47·53	45·82	45·55	46·13	48·64	50·72	52·72	S	53·76	52·70	S
10	49·03	47·43	45·80	45·50	46·18	S	50·79	52·77	53·85	53·74	52·62	50·46
11	49·01	47·40	S	45·50	46·23	48·82	50·86	52·82	53·88	53·74	S	50·40
12	49·00	S	45·78	45·50	46·30	48·83	50·95	S	53·85	53·66	52·54	50·29

READINGS OF THERMOMETERS SUNK IN THE GROUND

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

Day of the Month, 1860.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	o	o	o	o	o	o	o	o	o	o	o	o
13	48·90	47·26	45·70	45·53	S	48·92	51·00	52·92	53·95	53·70	52·52	50·30
14	48·92	47·25	45·70	45·55	46·41	49·05	51·10	52·97	53·96	S	52·48	50·20
15	S	47·20	45·60	S	46·49	49·08	S	52·97	53·96	53·65	52·47	50·15
16	48·82	47·15	45·60	45·63	46·44	49·18	51·25	53·06	S	53·60	52·37	S
17	48·77	47·10	45·58	45·68	46·50	S	51·35	53·06	54·00	53·60	52·26	50·00
18	48·60	47·04	S	45·70	46·61	49·30	51·39	53·67	53·95	53·55	S	49·90
19	48·66	S	45·50	45·66	46·70	49·38	51·42	S	54·00	53·50	52·10	49·86
20	48·62	46·90	45·50	45·70	S	49·48	51·53	53·19	54·03	53·48	52·08	49·82
21	48·55	46·86	45·45	45·72	46·83	49·54	51·58	53·22	54·03	S	52·01	49·76
22	S	46·77	45·42	S	47·00	49·58	S	53·22	54·03	53·42	51·93	49·72
23	48·45	46·73	45·40	45·78	47·03	49·68	51·72	53·28	S	53·37	51·86	S
24	48·40	46·65	45·40	45·74	47·07	S	51·77	53·29	54·00	53·30	51·82	49·68
25	48·30	46·60	S	45·82	47·13	49·77	51·90	53·37	53·95	53·30	S	ChristmasDay.
26	48·27	S	45·35	45·67	47·24	49·82	52·02	S	53·98	53·27	51·60	49·52
27	48·18	46·48	45·32	45·72	S	49·86	52·02	53·38	54·03	53·21	51·50	49·50
28	48·15	46·45	45·38	45·87	47·37	49·92	52·19	53·50	54·02	S	51·42	49·38
29	S	46·32	45·38	S	47·60	50·00	S	53·52	54·02	53·07	51·33	49·22
30	48·17		45·35	45·92	47·73	50·08	52·26	53·57	S	53·07	51·25	S
31	48·00		45·38		47·82		52·32	53·61		52·98		49·10
Means.	48·77	47·18	45·67	45·60	46·62	49·11	51·26	53·01	53·91	53·59	52·25	50·13

(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, 1860.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	o	o	o	o	o	o	o	o	o	o	o	o
1	S	44·92		S	46·08	52·03	S	56·76	57·39	55·78	53·48	48·64
2	45·36	44·70		44·45	46·17	51·94	54·87	56·72	S	55·72	53·48	S
3	45·60	44·75		44·60	46·40	S	54·88	56·78	57·43	55·60	53·48	48·52
4	45·80	44·75		44·70	46·63	52·20	54·90	56·83	57·41	55·49	S	48·53
5	46·12	S		44·80	46·89	52·22	55·00	S	57·40	55·46	53·23	48·60
6	46·30	44·50		Good Friday.	S	52·27	55·10	56·85	57·38	55·40	53·05	48·55
7	46·45	44·50		45·00	47·50	52·53	55·22	56·92	57·22	S	52·88	48·56
8	S	44·38		S	47·72	52·60	S	56·91	57·33	55·12	52·45	48·57
9	46·50	44·20		45·18	47·95	52·49	55·38	56·98	S	54·98	52·25	S
10	46·30	44·20		45·30	48·17	S	55·50	57·03	57·12	55·00	52·07	48·53
11	46·27	44·20		45·40	48·38	52·79	55·67	57·03	57·27	54·90	S	48·53
12	46·12	S		45·53	48·57	52·74	55·77	S	57·20	54·77	51·60	48·50
13	46·03	44·20		45·60	S	52·86	55·83	57·01	57·20	54·67	51·39	48·53
14	45·93	44·10		45·60	48·93	52·83	55·96	57·03	57·12	S	51·29	48·48
15	S	43·95		S	49·15	52·90	57·00	57·00	56·98	54·30	51·11	48·28
16	45·78	43·90		45·58	49·20	52·95	56·18	57·07	S	54·05	50·96	S
17	45·78	43·70		45·57	49·38	S	56·38	57·07	56·80	53·88	50·80	48·08
18	45·60			45·60	49·60	53·37	56·50	57·10	56·72	53·70	S	47·93
19	45·75			45·65	49·74	53·39	56·60	S	56·65	53·58	50·53	47·82
20	45·70			45·73	S	53·45	56·70	57·18	56·60	53·51	50·43	47·66
21	45·68			45·80	50·00	53·60	56·75	57·20	56·59	S	50·18	47·42
22	S			S	50·20	53·70	S	57·16	56·52	53·49	50·00	47·28
23	45·40			45·90	50·38	53·72	56·83	57·26	S	53·33	49·82	S
24	45·39			45·90	50·53	S	56·86	57·18	56·45	53·32	49·54	46·81
25	45·35		S	45·93	50·80	53·98	56·88	57·22	56·40	53·28	S	ChristmasDay
26	45·30		44·00	45·78	51·06	54·13	56·93	S	56·42	53·21	49·32	46·40

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

Day of the Month, 1860.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
27	45·08		44·03	45·75	<i>S</i>	54·31	56·83	57·20	56·39	53·22	49·23	46·18
28	45·04		44·03	45·90	51·50	54·46	56·68	57·22	56·23	<i>S</i>	49·13	45·93
29	<i>S</i>		44·01	<i>S</i>	51·83	54·53	<i>S</i>	57·28	56·05	53·28	48·90	45·52
30	45·10		44·03	46·00	51·97	54·69	56·77	57·26	<i>S</i>	53·47	48·80	<i>S</i>
31	45·00		44·18		52·01		56·63	57·68		53·34		44·83
Means.	45·72	..	..	45·47	49·14	53·18	56·06	57·07	56·89	54·29	51·13	47·71

At temperatures below 43°·50 the fluid of this thermometer descends below the scale; the readings from February 18 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, 1860.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	<i>S</i>	41·15	39·70	<i>S</i>	46·05	53·90	<i>S</i>	58·62	59·03	54·62	52·90	45·11
2	43·63	40·75	39·60	43·90	46·90	53·85	57·12	58·70	<i>S</i>	54·60	52·43	<i>S</i>
3	44·06	40·50	39·70	44·00	47·61	<i>S</i>	57·39	58·79	58·77	54·59	51·77	45·50
4	44·27	40·20	<i>S</i>	43·80	48·24	54·03	57·76	58·90	58·69	54·57	<i>S</i>	45·68
5	44·40	<i>S</i>	40·08	43·80	48·86	53·91	58·02	<i>S</i>	58·60	54·49	50·22	45·77
6	44·04	40·40	40·20	Good Friday.	<i>S</i>	54·00	58·20	59·04	58·39	54·19	49·58	45·88
7	43·77	40·65	40·15	44·30	49·33	54·10	58·50	59·10	58·47	<i>S</i>	49·20	46·07
8	<i>S</i>	40·30	39·95	<i>S</i>	49·51	54·09	<i>S</i>	58·80	58·45	54·40	48·82	46·32
9	42·80	40·70	39·88	44·94	49·88	54·10	58·60	58·70	<i>S</i>	54·30	48·50	<i>S</i>
10	42·37	40·73	39·70	45·03	50·20	<i>S</i>	58·80	58·60	58·55	53·77	48·12	46·22
11	42·05	40·30	<i>S</i>	44·70	50·37	54·27	58·90	58·52	58·12	53·11	<i>S</i>	46·02
12	41·90	<i>S</i>	39·67	44·40	50·66	54·32	58·98	<i>S</i>	57·60	52·74	47·34	45·60
13	41·95	39·50	39·70	44·15	<i>S</i>	54·53	59·10	58·75	57·23	52·04	47·20	45·44
14	41·85	39·00	39·80	44·10	51·38	54·60	59·50	58·80	57·00	<i>S</i>	47·11	45·21
15	<i>S</i>	38·90	40·05	<i>S</i>	51·62	54·55	<i>S</i>	58·80	56·99	51·43	47·23	45·00
16	42·40		40·10	44·05	51·80	54·79	60·03	59·03	<i>S</i>	51·32	47·48	<i>S</i>
17	42·53		40·23	44·50	52·00	<i>S</i>	60·23	59·12	57·10	51·60	47·23	44·30
18	42·12		<i>S</i>	44·77	51·96	55·36	60·13	58·92	57·13	51·53	<i>S</i>	43·90
19	41·80		41·57	44·80	51·90	55·35	60·02	<i>S</i>	57·20	51·40	46·32	43·38
20	41·70		41·95	44·90	<i>S</i>	55·77	60·02	58·53	56·83	51·64	45·88	42·68
21	41·85		42·10	44·70	52·55	56·07	59·82	58·79	56·60	<i>S</i>	45·53	42·03
22	<i>S</i>		42·40	<i>S</i>	53·10	56·29	<i>S</i>	58·90	56·85	51·58	45·32	41·55
23	41·70		42·20	44·47	53·70	56·47	59·40	58·90	<i>S</i>	51·30	45·54	<i>S</i>
24	41·53		42·20	44·30	54·20	<i>S</i>	59·12	58·62	56·77	51·55	45·47	40·95
25	41·70		<i>S</i>	44·25	54·75	57·22	58·82	58·56	56·32	52·09	<i>S</i>	Christmas Day
26	41·60		41·87	44·11	54·95	57·55	58·50	<i>S</i>	55·70	52·44	45·20	40·12
27	41·10		41·88	44·30	<i>S</i>	57·52	58·12	58·73	55·22	52·70	45·00	39·83
28	41·23		41·80	44·60	54·68	57·52	58·27	58·90	55·10	<i>S</i>	44·90	39·72
29	<i>S</i>	39·60	42·24	<i>S</i>	54·54	57·38	<i>S</i>	58·92	55·18	52·93	44·90	39·00
30	41·12		42·96	45·20	54·09	57·30	58·43	59·03	<i>S</i>	53·09	45·00	<i>S</i>
31	41·10		43·38		53·92		58·50	59·05		52·93		
Means.	42·33	..	40·93	44·42	51·44	55·34	58·86	58·82	57·28	52·85	47·47	43·80

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 February 16 to February 28 and on December 31 the readings were all below 39°·70, and mostly less than 39°.

(clx)

READINGS OF THERMOMETERS SUNK IN THE GROUND

(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, 1860.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	o	o	o	o	o	o	o	o	o	o	o	o
1	S	35·3	39·3	S	54·3	57·7	S	60·9	59·6	53·1	51·0	46·6
2	46·3	36·0	40·8	44·2	55·2	56·6	63·0	61·0	S	55·0	47·0	S
3	46·8	37·2	41·0	45·0	55·2	S	62·6	62·3	59·6	56·5	43·9	45·2
4	46·2	37·7	S	45·0	54·3	57·2	63·2	63·0	59·0	51·9	S	45·0
5	43·0	S	40·7	47·0	53·0	55·2	60·6	S	58·5	53·0	44·0	46·0
6	41·5	39·7	38·0	Good Friday.	S	53·7	63·0	61·2	59·8	55·0	45·0	47·1
7	38·0	37·7	39·7	49·0	54·0	55·0	60·2	59·8	58·6	S	45·3	48·3
8	S	43·0	38·3	S	55·2	57·2	S	57·9	60·7	53·6	43·5	48·0
9	38·0	40·0	36·8	46·0	57·0	56·1	61·2	58·9	S	46·0	43·0	S
10	37·9	35·0	35·0	43·0	55·3	S	59·7	60·2	56·0	47·2	43·0	44·0
11	39·0	36·0	S	42·3	57·2	57·3	61·7	60·1	56·0	50·7	S	42·9
12	41·7	S	39·7	44·6	59·0	58·0	63·0	S	54·6	44·1	42·0	42·9
13	39·0	34·6	40·0	44·0	S	57·2	62·0	60·9	56·2	49·0	45·0	42·3
14	42·7	34·0	41·0	43·0	57·6	57·3	63·7	62·0	58·8	S	46·0	42·9
15	S	35·0	39·0	S	58·0	57·0	S	61·4	58·0	49·7	46·0	39·7
16	42·0	37·0	42·0	48·0	56·0	60·2	64·0	63·9	S	53·8	44·6	S
17	39·3	37·0	46·0	47·0	56·2	S	65·0	59·0	60·0	51·0	44·7	39·5
18	36·6	39·5	S	47·0	56·0	57·0	63·4	57·3	57·0	51·8	S	36·7
19	41·3	S	45·0	43·0	55·5	57·7	61·3	S	56·0	53·0	40·6	35·0
20	43·0	36·0	46·0	44·0	S	61·0	62·8	61·7	57·3	52·0	41·8	34·5
21	41·0	38·0	46·0	43·0	60·5	61·2	59·8	60·0	57·8	S	41·8	35·0
22	S	38·0	42·4	S	61·7	61·3	S	59·2	59·3	50·6	45·7	34·9
23	39·0	35·5	43·0	43·8	61·0	61·8	59·0	58·1	S	54·0	41·9	S
24	41·5	35·0	41·7	40·8	61·2	S	58·5	58·0	54·2	55·3	42·3	31·2
25	40·0	35·0	S	45·0	60·8	60·8	57·7	60·3	51·4	56·1	S	Christmas Day
26	37·0	S	42·8	45·0	59·2	60·5	58·2	S	53·0	56·8	40·8	33·0
27	43·2	41·0	42·0	46·0	S	59·3	60·0	60·2	54·8	55·0	43·7	34·8
28	36·0	44·0	47·0	46·0	54·0	60·3	59·8	60·3	55·0	S	42·8	34·1
29	S	39·0	49·3	S	53·9	58·8	S	62·3	53·7	54·0	43·5	31·0
30	42·5	47·0	47·0	52·0	55·0	57·5	59·5	62·2	S	54·8	45·0	S
31	40·3	47·5	47·5	55·0	55·0	55·0	60·7	60·0	52·1	52·1	45·0	36·2
Means.	40·9	37·4	42·1	45·2	56·7	58·2	61·3	60·4	57·0	52·4	44·0	39·9

(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, 1860.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	o	o	o	o	o	o	o	o	o	o	o	o
1	S	33·0	46·0	S	65·0	63·0	S	66·3	67·2	54·2	57·2	48·5
2	49·0	35·0	42·2	40·3	65·8	55·5	72·0	63·2	S	60·0	51·9	S
3	53·3	39·0	48·0	50·0	64·8	S	67·2	66·0	66·8	63·0	48·7	44·5
4	46·2	39·5	S	53·7	62·7	62·9	70·1	67·2	65·5	56·3	S	45·4
5	42·0	S	44·0	53·9	52·4	59·3	67·2	S	67·0	58·6	43·7	46·8
6	40·3	39·0	41·3	Good Friday.	S	53·1	65·0	61·5	61·4	59·8	45·5	50·8
7	38·0	38·5	35·5	57·3	63·3	56·2	65·3	63·2	64·7	S	48·2	50·9
8	S	47·5	39·8	S	61·3	62·3	S	56·5	67·2	55·5	44·8	47·3
9	38·0	38·5	38·7	47·3	60·6	57·7	63·7	60·7	S	51·5	42·5	S
10	37·5	33·0	36·0	47·0	60·2	S	59·8	68·0	62·0	45·0	40·8	44·3
11	41·0	36·5	S	44·0	61·4	63·5	66·9	64·0	61·5	48·0	S	41·8
12	44·0	S	42·0	47·0	65·0	59·1	68·5	S	61·3	44·5	45·1	42·5
13	38·0	35·0	43·8	47·0	S	60·4	67·5	65·0	66·0	52·0	47·2	41·9
14	45·0	34·0	45·2	45·0	63·8	60·2	67·2	67·3	65·5	S	45·2	40·3
15	S	36·5	43·0	S	63·0	60·0	S	65·3	62·0	53·0	47·2	35·3

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

Day of the Month, 1860.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	o	o	o	o	o	o	o	o	o	o	o	o
16	40·0	40·0	47·7	51·0	59·0	67·1	64·4	68·2	S	53·0	46·7	S
17	37·5	40·2	54·0	55·0	57·5	S	71·2	61·0	64·3	55·0	42·3	36·5
18	36·7	43·8	S	55·0	61·0	63·3	67·0	55·4	53·9	54·9	S	33·0
19	42·8	S	51·0	42·7	63·4	61·3	61·5	S	59·2	58·0	40·5	34·7
20	45·0	36·0	50·0	47·0	S	66·0	65·7	63·8	63·8	55·0	45·0	31·6
21	42·0	39·0	39·0	47·0	73·0	65·7	58·0	64·9	60·0	S	42·9	32·9
22	S	39·0	44·8	S	73·2	67·2	S	60·7	62·2	59·2	49·0	32·0
23	43·7	37·5	45·0	47·3	71·0	67·9	57·7	63·9	S	56·0	42·7	S
24	44·3	38·0	42·0	37·7	68·0	S	59·0	59·1	58·8	59·8	42·6	28·3
25	39·3	37·3	S	50·2	64·1	61·3	59·5	61·9	49·0	61·5	S	Christmas Day.
26	36·0	S	47·0	48·5	62·9	66·0	64·7	S	57·9	59·3	38·3	34·0
27	45·4	42·0	44·3	49·7	S	60·0	66·4	63·6	59·0	56·9	46·3	33·2
28	31·7	50·0	55·0	51·4	54·7	66·7	61·7	63·9	55·8	S	43·3	33·2
29	S	42·6	52·8	S	56·0	61·7	S	66·8	54·0	57·2	43·2	29·4
30	43·0		48·8	63·7	59·7	58·2	63·8	66·9	S	63·2	48·0	S
31	39·5		50·2		55·0		63·9	66·0		51·3		36·1
Means.	41·5	38·8	45·0	49·1	62·5	61·8	64·8	63·6	61·4	55·6	45·3	39·0

(clxii) WEEKLY MEANS OF READINGS OF DEEP-SUNK THERMOMETERS, AND CHANGES OF THE DIRECTION OF THE WIND,

WEEKLY MEANS OF READINGS OF THERMOMETERS.							
Thermometers sunk in the ground.						Thermometer inclosed in the box which covers the scales of the deep-sunk Thermometers, and placed on a level with their scales.	
1860. Period.	Bulb 24 French Feet deep.	Bulb 12 French Feet deep.	Bulb 6 French Feet deep.	Bulb 3 French Feet deep.	Bulb 1 Inch deep.		
January	1 to 7	52°08	49°36	45°94	44°03	43°6	44°8
	8 to 14	52°15	48°99	46°19	42°15	39°7	40°6
	15 to 21	51°83	48°67	45°72	42°07	40°5	40°7
	22 to 28	51°77	48°28	45°26	41°48	39°5	40°1
	29 to February 4	51°54	47°94	44°87	40°80	38°2	38°2
February	5 to 11	51°31	47°54	44°33	40°51	38°6	38°8
	12 to 18	51°09	47°17	43°97	...	36°2	38°3
	19 to 25	50°86	46°75	...	...	36°3	37°8
	26 to March 3	50°66	46°33	...	...	40°9	45°1
March	4 to 10	50°39	45°88	...	39°99	38°1	39°2
	11 to 17	50°19	45°66	...	39°93	41°3	46°0
	18 to 24	49°95	45°36	...	42°07	44°0	45°3
	25 to 31	49°73	45°36	44°05	42°36	45°9	49°7
April	1 to 7	49°49	45°36	44°71	43°96	46°0	51°0
	8 to 14	49°32	45°49	45°44	44°55	43°8	46°2
	15 to 21	49°13	45°68	45°66	44°62	45°3	49°6
	22 to 28	48°95	45°77	45°86	44°34	44°4	47°5
	29 to May 5	48°88	45°96	46°36	47°14	54°0	62°4
May	6 to 12	48°77	46°18	48°05	49°99	56°3	62°0
	13 to 19	48°64	46°53	49°33	51°78	56°6	61°3
	20 to 26	48°55	47°05	50°50	53°88	60°7	68°7
	27 to June 2	48°49	47°72	51°88	54°16	55°4	57°3
June	3 to 9	48°48	48°44	52°38	54°04	55°7	58°6
	10 to 16	48°47	48°98	52°85	54°51	57°8	61°7
	17 to 23	48°51	49°49	53°54	55°89	60°0	65°2
	24 to 30	48°58	49°91	54°35	57°42	59°5	62°3
July	1 to 7	48°69	50°42	55°00	57°83	62°1	67°8
	8 to 14	48°80	50°90	55°69	58°98	61°9	65°6
	15 to 21	48°94	51°42	56°52	60°04	62°7	64°6
	22 to 28	49°07	51°94	56°84	58°71	58°9	61°5
	29 to August 4	49°25	52°42	56°75	58°66	61°2	65°1
August	5 to 11	49°43	52°71	56°98	58°79	59°7	62°3
	12 to 18	49°61	53°01	57°05	58°90	60°7	63°7
	19 to 25	49°79	53°26	57°20	58°72	59°6	62°4
	26 to September 1	50°00	53°53	57°34	58°94	60°8	65°7
September	2 to 8	50°19	53°75	57°36	58°56	59°4	65°4
	9 to 15	50°35	53°91	57°15	57°58	56°6	63°1
	16 to 22	50°49	54°01	56°65	56°95	57°9	60°6
	23 to 29	50°63	54°00	56°32	55°72	53°7	55°8
	30 to October 6	50°83	54°01	55°58	54°51	54°1	58°7
October	7 to 13	50°91	53°75	54°91	53°39	48°4	49°4
	14 to 20	51°05	53°56	53°84	51°49	51°9	54°8
	21 to 27	51°18	53°31	53°31	51°94	54°6	58°8
	28 to November 3	51°27	52°97	53°42	52°68	50°5	54°9
November	4 to 10	51°29	52°71	52°66	49°07	44°0	44°3
	11 to 17	51°31	52°44	51°19	47°26	44°7	45°6
	18 to 24	51°33	51°97	50°08	45°68	42°4	43°8
	25 to December 1	51°35	51°38	49°00	45°02	43°7	44°6
December	2 to 8	51°35	50°81	48°56	45°87	46°6	47°6
	9 to 15	51°28	50°30	48°48	45°58	42°5	41°0
	16 to 22	51°15	49°84	47°70	42°97	35°9	33°5
	23 to 31	51°05	49°40	45°94	39°92	33°4	32°4

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.

1859. Dec. 31. 12. The direction of the wind was S.W.

1860. Jan. 31. 12. ,, ,, N.N.W., which implies a direct motion of $112\frac{1}{2}^{\circ}$.

On Jan. 18. 3, the trace was shifted to the next set of lines upwards; on Jan. 18^d. 22^h, the trace was shifted to the next set of lines downwards, implying retrograde motion of 360° , and direct motion of 360° .

Therefore the whole excess of direct motion in the month of January was $112\frac{1}{2}^{\circ}$.

1860. Jan. 31. 12. The direction of the wind was N.N.W.

Feb. 29. 12. ,, ,, S.W., which implies a retrograde motion of $112\frac{1}{2}^{\circ}$.

On Feb. 11. 22, the trace was shifted to the next set of lines upwards; on Feb. 22^d. 22^h, the trace was shifted to the next set of lines downwards, implying retrograde motion of 360° , and direct motion of 360° .

Therefore the whole excess of retrograde motion in the month of February was $112\frac{1}{2}^{\circ}$.

1860. Feb. 29. 12. The direction of the wind was S.W.

March 31. 12. ,, ,, W.S.W., which implies a direct motion of $22\frac{1}{2}^{\circ}$.

On March 11. 0^h₃, 26^d. 22^h, 29^d. 22^h, the trace was shifted to the next set of lines downwards; on March 14^d. 22^h, the trace was shifted to the next set of lines upwards, implying direct motion of 1080° , and retrograde motion of 360° .

Therefore the whole excess of direct motion in the month of March was $742\frac{1}{2}^{\circ}$.

1860. March 31. 12. The direction of the wind was W.S.W.

April 30. 12. ,, ,, E.N.E., which implies a retrograde motion of 180° .

On April 5. 22, 13^d. 22^h, 21^d. 22^h, 25^d. 22^h, the trace was shifted to the next set of lines upwards; on April 6^d. 1^h₂, 14^d. 22^h, 28^d. 22^h, the trace was shifted to the next set of lines downwards, implying retrograde motion of 1440° , and direct motion of 1080° .

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

1860. April 30. 12. The direction of the wind was E.N.E.

May 31. 12. ,, ,, W.S.W., which implies a direct motion of 180° .

On May 4. 22, 20^d. 22^h, the trace was shifted to the next set of lines downwards, implying direct motion of 720° .

Therefore the whole excess of direct motion in the month of May was 900° .

1860. May 31. 12. The direction of the wind was W.S.W.

June 30. 12. ,, ,, N.N.E., which implies a direct motion of 135° .

On June 9. 22, 16^d. 2^h₄, the trace was shifted to the next set of lines upwards, implying retrograde motion of 720° .

Therefore the whole excess of retrograde motion in the month of June was 585° .

1860. June 30. 12. The direction of the wind was N.N.E.

July 31. 12. ,, ,, W., which implies a retrograde motion of $112\frac{1}{2}^{\circ}$.

On July 17. 22, 21^d. 22^h, the trace was shifted to the next set of lines upwards, implying retrograde motion of 720° .

Therefore the whole excess of retrograde motion in the month of July was $832\frac{1}{2}^{\circ}$.

1860. July 31. 12. The direction of the wind was W.

Aug. 31. 12. ,, ,, S.W., which implies a retrograde motion of 45° .

Therefore the whole excess of retrograde motion in the month of August was 45° .

(clxiv) CHANGES OF THE DIRECTION OF THE WIND, AND AMOUNT OF RAIN COLLECTED IN EACH MONTH,

1860. Aug. 31^d. 12^h. The direction of the wind was S.W.

Sept. 30. 12. ,, ,, N.W., which implies a direct motion of 90°.

On Sept. 12. 22, the trace was shifted to the next set of lines downwards; on Sept. 24^d. 22^h, 27^d. 22^h, the trace was shifted to the next set of lines upwards, implying direct motion of 360°, and retrograde motion of 720°.

Therefore the whole excess of retrograde motion in the month of September was 270°.

1860. Sept. 30^d. 12^h. The direction of the wind was N.W.

Oct. 31. 12. ,, ,, E.N.E., which implies a retrograde motion of 247½°.

Therefore the whole excess of retrograde motion in the month of October was 247½°.

1860. Oct. 31^d. 12^h. The direction of the wind was E.N.E.

Nov. 30. 12. ,, ,, S.W., which implies a direct motion of 517½°.

On Nov. 7. 22, 13^d. 22^h, 23^d. 22^h, the trace was shifted to the next set of lines upwards; on Nov. 12^d. 22^h, the trace was shifted to the next set of lines downwards, implying retrograde motion of 1080°, and direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of November was 202½°.

1860. Nov. 30^d. 12^h. The direction of the wind was S.W.

Dec. 31. 12. ,, ,, S., which implies a retrograde motion of 45°.

On Dec. 0. 22, 29^d. 22^h, the trace was shifted to the next set of lines downwards; on Dec. 20^d. 22^h, the trace was shifted to the next set of lines upwards, implying direct motion of 720°, and retrograde motion of 360°.

Therefore the whole excess of direct motion in the month of December was 315°.

The whole excess of retrograde motion to the end of the year was 765°

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:—

On 1860, January 1	..	..	..	..	..	..	..	..	..	..	42°0
December 31	..	..	..	..	..	..	..	..	..	..	39°9

Implying an excess of retrograde motion, during the year, of 2·1 revolutions, or 756°.

AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1860.

1860, MONTH.	Monthly Amount of Rain collected in each Gauge.			
	Osler's Anemometer Gauge.	On the Roof of the Library.	Crosley's.	Cylinder partly sunk in the Ground.
	in.	in.	in.	in.
January - -	1·0	1·1	1·6	1·8
February - -	0·5	0·7	1·0	1·1
March - -	0·8	1·1	1·7	1·9
April - -	0·5	0·8	1·0	1·0
May - -	2·1	3·4	3·6	3·9
June - -	3·0	5·2	5·3	5·8
July - -	2·3	2·6	2·6	2·8
August - -	1·9	2·7	3·5	3·7
September - -	1·9	2·8	2·2	3·1
October - -	0·8	1·0	1·0	1·6
November - -	1·6	2·2	1·8	2·5
December - -	1·5	1·9	2·1	2·8
Sums - -	17·9	25·5	27·4	32·0

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

During the last four months of the year, Crosley's Gauge evidently did not register correctly; the amounts are probably in error by about 0th.3.

ROYAL OBSERVATORY, GREENWICH.

SUPPLEMENTARY APPENDIX

TO

RESULTS

OF

METEOROLOGICAL OBSERVATIONS, 1860;

CONTAINING

- I.—MONTHLY MEANS OF RESULTS FOR ATMOSPHERIC PRESSURE, TEMPERATURE, MOISTURE, AND RAIN, FROM 1848 TO 1853.
- II.—MONTHLY STATEMENT OF THE NUMBER OF DAYS OF WIND REFERRED TO EIGHT POINTS OF THE AZIMUTHAL CIRCLE, AND OF THE NUMBER OF CALM DAYS, FROM 1841 TO 1860.
- III.—MONTHLY STATEMENT OF THE MEAN DAILY HORIZONTAL MOVEMENT OF THE AIR IN MILES, AS FOUND BY CONVERTING THE OBSERVED INDICATIONS OF WHEWELL'S ANEMOMETER INTO CORRESPONDING INDICATIONS OF ROBINSON'S ANEMOMETER, FROM 1843 TO 1859.
- IV.—WEEKLY AND MONTHLY MEANS OF THE READINGS OF THE DEEP-SUNK THERMOMETERS, FROM 1848 TO 1855.

I.—MONTHLY MEANS OF RESULTS FOR ATMOSPHERIC PRESSURE, TEMPERATURE, MOISTURE, AND RAIN,
FROM 1848 TO 1853.

In the printed *Meteorological Observations* from their commencement in 1840 to 1847, the Monthly and Yearly Means of the principal Meteorological Results were published; and again in the printed *Results of Meteorological Observations* from 1854 to the present year, the same Means were published. The publication was omitted in the years 1848 to 1853.

The following Tables contain the Means of the principal Meteorological Results from 1848 to 1853.

MONTHLY MEANS of RESULTS, in the YEAR 1848.																
1848. MONTH.	Mean Reading of the Barometer.	TEMPERATURE OF THE AIR.							Mean Temperature of Dew Point.	HYGROMETRICAL DEDUCTIONS, from Glaisher's Tables, 2nd Edition.					RAIN.	
		High-est.	Low-est.	Range in the Month.	Mean of all the Highest.	Mean of all the Lowest.	Mean Daily Range.	Mean Temperature.		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.	Number of Rainy Days.	Amount collected on the Ground.
January.....	in. 29·816	° 50·4	° 15·8	° 34·6	° 38·1	° 29·8	° 8·3	° 34·6	° 29·3	in. 0·162	grs. 1·9	grs. 0·4	80	grs. 559	8	in. 1·2
February.....	29·517	55·0	29·2	25·8	48·7	38·0	10·7	43·4	39·4	0·241	2·8	0·5	85	544	19	2·6
March.....	29·505	71·5	27·3	44·2	50·7	36·4	14·3	43·8	39·0	0·238	2·7	0·5	82	543	22	3·1
April.....	29·589	75·0	29·7	45·3	56·2	39·5	16·7	47·6	41·1	0·258	3·0	0·7	79	540	23	3·4
May.....	29·926	83·0	33·5	49·5	74·4	43·9	30·5	59·7	47·1	0·324	3·6	2·1	63	533	5	0·4
June.....	29·642	78·4	38·7	39·7	68·0	50·5	17·5	58·5	50·7	0·370	4·2	1·3	76	529	22	3·5
July.....	29·836	85·3	42·2	43·1	73·7	51·2	22·5	62·3	53·6	0·412	4·6	1·7	74	528	18	2·0
August.....	29·723	75·5	42·5	33·0	68·9	50·4	18·5	58·9	51·9	0·386	4·3	1·3	78	530	29	4·3
September.....	29·832	78·8	32·8	46·0	66·8	45·9	20·9	56·7	50·0	0·361	4·0	1·1	78	534	14	2·4
October.....	29·646	74·0	32·4	41·6	59·6	43·1	16·5	51·6	47·0	0·323	3·6	0·7	84	537	26	3·5
November.....	29·785	57·8	25·2	32·6	51·1	35·4	15·7	43·8	39·2	0·239	2·8	0·5	84	548	19	1·2
December.....	29·807	62·8	21·8	41·0	48·9	36·2	12·7	44·0	40·2	0·249	2·8	0·4	86	548	18	2·6
Means.....	29·719	70·6	30·9	39·7	58·8	41·7	17·1	50·4	44·0	0·297	3·4	0·9	79	539	Sum. 223	Sum. 30·2

MONTHLY MEANS of RESULTS, in the YEAR 1849.

1849. MONTH.	Mean Reading of the Barometer.	TEMPERATURE OF THE AIR.							Mean Temperature of Dew Point.	HYGROMETRICAL DEDUCTIONS, from Glaisher's Tables, 2nd Edition.					RAIN.	
		High-est.	Low-est.	Range in the Month.	Mean of all the Highest.	Mean of all the Lowest.	Mean Daily Range.	Mean Temperature.		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.	Number of Rainy Days.	Amount collected on the Ground.
January.....	in. 29·771	° 56·4	° 19·9	° 36·5	° 45·4	° 34·7	° 10·7	° 40·1	° 36·7	in. 0·218	grs. 2·5	grs. 0·4	88	grs. 552	17	in. 1·6
February.....	30·106	58·0	26·8	31·2	49·4	36·5	12·9	43·2	39·3	0·240	2·8	0·5	85	555	19	2·2
March.....	29·915	60·7	27·7	33·0	50·1	36·3	13·8	42·5	36·5	0·216	2·5	0·6	80	552	11	0·5
April.....	29·517	64·3	28·6	35·7	52·5	36·5	16·0	43·3	39·4	0·241	2·8	0·4	86	544	20	2·2
May.....	29·766	75·0	36·8	38·2	63·8	46·7	17·1	54·2	43·9	0·287	3·3	1·4	68	536	15	3·9
June.....	29·868	80·7	38·6	42·1	69·1	48·5	20·6	58·4	49·5	0·355	3·9	1·5	73	534	7	0·2
July.....	29·789	84·1	39·5	44·6	74·2	51·6	22·6	62·1	51·1	0·375	4·1	2·1	67	528	12	2·9
August.....	29·841	82·5	42·4	40·1	74·2	54·0	20·2	62·9	52·6	0·397	4·4	2·0	69	528	8	0·5
September.....	29·767	79·0	42·7	36·3	68·7	51·2	17·5	58·8	50·8	0·371	4·2	1·3	75	531	15	3·3
October.....	29·744	69·7	31·5	38·2	59·2	44·1	15·1	51·1	45·2	0·302	3·4	0·8	81	539	21	2·7
November.....	29·743	61·7	23·5	38·2	49·8	38·1	11·7	44·1	39·9	0·246	2·8	0·5	85	547	11	1·5
December.....	29·795	56·3	18·8	35·9	43·2	34·1	9·1	39·1	36·4	0·215	2·5	0·3	90	554	18	2·4
Means.....	29·802	69·0	31·4	37·5	58·3	42·7	15·6	50·0	43·4	0·289	3·3	1·0	79	542	Sum. 174	Sum. 23·9

MONTHLY MEANS OF RESULTS, in the YEAR 1850.																
1850. MONTH.	Mean Reading of the Baro- meter.	TEMPERATURE OF THE AIR.							Mean Temper- ature of Dew Point.	HYGROMETRICAL DEDUCTIONS, from Glaisher's Tables, 2nd Edition.					RAIN.	
		High- est.	Low- est.	Range in the Month.	Mean of all the Highest.	Mean of all the Lowest.	Mean Daily Range.	Mean Temper- ature.		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.	Number of Rainy Days.	Amount collected on the Ground.
January	in. 29·854	° 53·1	° 22·0	° 31·1	° 38·0	° 29·5	° 8·5	° 33·7	° 30·4	in. 0·170	grs. 2·0	grs. 0·3	87	grs. 561	10	in. 1·2
February	29·828	58·2	30·0	28·2	50·7	39·1	11·6	44·7	39·5	0·242	2·8	0·6	82	548	13	1·3
March	30·039	58·0	20·0	38·0	48·6	32·1	16·5	39·9	33·2	0·189	2·2	0·7	77	557	5	0·3
April	29·594	66·9	34·0	32·9	58·5	42·5	16·0	48·5	42·0	0·267	3·0	0·8	79	540	18	2·3
May	29·714	76·5	31·7	44·8	62·1	43·2	18·9	51·3	43·5	0·283	3·2	1·0	76	539	21	2·4
June	29·886	85·1	36·2	48·9	74·1	48·1	26·0	60·8	49·6	0·356	3·9	2·0	66	531	8	0·9
July	29·789	87·0	43·5	43·5	72·9	52·9	20·0	62·2	55·1	0·434	4·8	1·4	78	528	15	2·9
August	29·787	81·0	40·0	41·0	70·6	52·0	18·6	60·2	53·5	0·410	4·6	1·2	78	530	14	1·9
September	29·930	70·5	39·0	31·5	65·3	48·2	17·1	56·4	49·7	0·357	4·0	1·0	78	537	13	1·3
October	29·681	64·5	31·5	33·0	54·8	40·6	14·2	47·0	41·4	0·261	3·0	0·7	81	543	8	1·4
November	29·728	61·3	27·9	33·4	52·4	41·0	11·4	46·5	42·2	0·269	3·1	0·5	86	544	14	2·5
December	29·914	56·5	24·2	32·3	44·8	36·1	8·7	40·6	38·4	0·232	2·7	0·2	92	554	16	1·3
Means	29·812	68·2	31·7	36·5	57·7	42·1	15·6	49·3	43·2	0·289	3·3	0·9	80	543	Sum. 155	Sum. 197

MONTHLY MEANS OF RESULTS, in the YEAR 1851.

1851. MONTH.	Mean Reading of the Baro- meter.	TEMPERATURE OF THE AIR.							Mean Temper- ature of Dew Point.	HYGROMETRICAL DEDUCTIONS, from Glaisher's Tables, 2nd Edition.					RAIN.	
		High- est.	Low- est.	Range in the Month.	Mean of all the Highest.	Mean of all the Lowest.	Mean Daily Range.	Mean Temper- ature.		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.	Number of Rainy Days.	Amount collected on the Ground.
January	in. 29·649	° 56·5	° 26·6	° 29·9	° 48·1	° 38·1	° 10·0	° 42·9	° 38·5	in. 0·233	grs. 2·7	grs. 0·5	85	grs. 546	15	in. 2·7
February	29·891	57·1	23·7	33·4	47·4	34·2	13·2	40·1	36·0	0·212	2·4	0·5	86	554	14	1·2
March	29·600	58·4	29·8	28·6	49·5	37·4	12·1	42·6	37·5	0·225	2·6	0·6	83	546	21	4·1
April	29·726	64·1	28·6	35·5	54·1	38·0	16·1	44·7	39·3	0·240	2·8	0·6	81	546	11	2·3
May	29·891	74·2	33·5	40·7	61·4	41·8	19·6	50·9	43·1	0·278	3·2	1·0	75	542	12	0·8
June	29·895	87·0	38·5	48·5	70·8	48·7	22·1	58·9	49·6	0·356	4·0	1·6	71	533	12	1·3
July	29·708	84·4	38·9	45·5	71·1	51·0	20·1	60·1	51·8	0·385	4·3	1·5	74	529	17	4·3
August	29·890	82·0	42·2	39·8	73·4	53·4	20·0	62·3	53·2	0·406	4·5	1·8	73	529	9	1·5
September	30·025	76·6	37·6	39·0	67·9	47·3	20·6	56·9	48·1	0·336	3·8	1·4	72	538	14	0·4
October	29·726	70·1	34·7	35·4	59·7	46·7	13·0	52·6	46·4	0·316	3·5	0·9	80	537	14	1·8
November	29·781	53·4	24·3	29·1	44·3	32·4	11·9	37·9	32·5	0·184	2·1	0·6	81	555	10	0·6
December	30·135	54·8	24·9	29·9	44·4	36·4	8·0	40·4	36·1	0·213	2·5	0·5	85	558	6	0·6
Means	29·826	68·2	31·9	36·3	57·7	42·1	15·6	49·2	42·7	0·282	3·2	1·0	79	543	Sum. 155	Sum. 21·6

MONTHLY MEANS of RESULTS, in the YEAR 1852.

1852. MONTH.	Mean Reading of the Barometer.	TEMPERATURE OF THE AIR.							Mean Temperature of Dew Point.	HYGROMETRICAL DEDUCTIONS, from Glaisher's Tables, 2nd Edition.					RAIN.	
		High-est.	Low-est.	Range in the Month.	Mean of all the Highest.	Mean of all the Lowest.	Mean Daily Range.	Mean Temperature.		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.	Number of Rainy Days.	Amount collected on the Ground.
January.....	in. 29·589	° 55·5	° 28·1	° 27·4	° 47·9	° 36·5	° 11·4	° 42·0	° 35·7	in. 0·209	grs. 2·4	grs. 0·7	79	grs. 546	19	in. 3·6
February.....	29·857	57·4	24·9	32·5	47·5	35·3	12·2	40·8	35·1	0·204	2·4	0·6	81	553	12	0·9
March.....	30·007	68·4	21·3	47·1	50·7	32·1	18·6	41·3	34·3	0·198	2·3	0·7	77	555	5	0·2
April.....	29·945	74·7	26·7	48·0	58·2	34·2	24·0	45·9	38·2	0·231	2·7	0·9	74	549	6	0·5
May.....	29·786	73·4	29·3	44·1	61·8	43·2	18·6	51·5	44·0	0·288	3·2	1·1	76	540	14	1·9
June.....	29·560	72·7	41·0	31·7	66·5	49·4	17·1	56·1	48·1	0·336	3·8	1·2	75	530	23	4·6
July.....	29·857	90·3	49·2	41·1	80·6	55·7	24·9	66·6	55·9	0·447	5·0	2·2	68	524	4	2·3
August.....	29·649	81·5	49·9	31·6	72·6	54·7	17·9	62·1	51·8	0·385	4·3	2·0	70	526	16	4·4
September.....	29·739	77·5	37·9	39·6	66·6	49·2	17·4	56·8	48·9	0·346	3·9	1·2	75	533	13	3·8
October.....	29·687	64·0	31·0	33·0	55·7	41·1	14·6	47·9	41·8	0·265	3·0	0·8	81	542	17	3·8
November.....	29·465	63·8	32·6	31·2	54·5	44·1	10·4	48·9	43·5	0·283	3·2	0·7	82	536	23	6·0
December.....	29·581	57·1	31·7	25·4	52·1	42·4	9·7	47·6	41·1	0·258	2·9	0·8	78	540	19	2·2
Means.....	29·727	69·7	33·6	36·1	59·6	43·2	16·4	50·6	43·2	0·287	3·3	1·1	76	540	Sum. 171	Sum. 34·2

MONTHLY MEANS of RESULTS, in the YEAR 1853.

1853. MONTH.	Mean Reading of the Barometer.	TEMPERATURE OF THE AIR.							Mean Temperature of Dew Point.	HYGROMETRICAL DEDUCTIONS, from Glaisher's Tables, 2nd Edition.					RAIN.	
		High-est.	Low-est.	Range in the Month.	Mean of all the Highest.	Mean of all the Lowest.	Mean Daily Range.	Mean Temperature.		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.	Number of Rainy Days.	Amount collected on the Ground.
January.....	in. 29·570	° 55·5	° 30·8	° 24·7	° 47·6	° 37·5	° 10·1	° 42·4	° 36·6	in. 0·217	grs. 2·5	grs. 0·6	80	grs. 546	20	in. 2·0
February.....	29·525	45·0	20·5	24·5	39·1	29·0	10·1	33·3	26·6	0·145	1·7	0·6	76	556	13	0·9
March.....	29·780	60·5	20·8	39·7	47·0	31·2	15·8	38·5	32·1	0·182	2·1	0·6	78	554	13	1·5
April.....	29·710	62·0	32·3	29·7	54·0	39·8	14·2	45·2	38·3	0·231	2·7	0·7	77	545	14	3·1
May.....	29·754	78·8	32·6	46·2	63·1	42·6	20·5	52·0	43·5	0·283	3·2	1·2	73	539	11	1·6
June.....	29·729	81·0	39·9	41·1	68·9	50·2	18·7	58·2	47·6	0·330	3·8	1·7	68	531	13	2·8
July.....	29·728	81·7	48·3	33·4	70·5	53·4	17·1	60·3	51·9	0·386	4·3	1·6	74	529	16	6·0
August.....	29·793	77·5	45·8	31·7	70·9	51·8	19·1	60·0	52·1	0·389	4·3	1·5	75	530	7	2·2
September.....	29·833	73·0	37·5	35·5	65·2	47·2	18·0	55·3	50·1	0·364	4·0	0·9	84	536	12	2·4
October.....	29·558	67·0	31·7	35·3	59·1	43·9	15·2	50·9	47·8	0·333	3·7	0·4	89	536	24	4·3
November.....	29·941	60·8	25·8	35·0	47·8	36·3	11·5	42·1	40·3	0·250	2·9	0·3	93	553	11	1·5
December.....	29·804	50·8	18·0	32·8	38·8	29·5	9·3	34·0	31·2	0·175	2·1	0·2	89	559	8	0·7
Means.....	29·727	66·1	32·0	34·1	56·0	41·0	15·0	47·7	41·5	0·274	3·1	0·9	80	543	Sum. 162	Sum. 29·0

II.—MONTHLY STATEMENT OF THE NUMBER OF DAYS OF WIND REFERRED TO EIGHT POINTS OF THE AZIMUTHAL CIRCLE, AND OF THE NUMBER OF CALM DAYS, FROM 1841 TO 1860.

The frequent references, which have been made to the difference in the proportion of Winds in different directions at different Seasons of the Year, have suggested the exhibition of this Table for past years. It is proposed to continue it in future years.

FOR EIGHT POINTS OF AZIMUTH, AND OF CALM DAYS.

(clxxiii)

NUMBER of DAYS of WIND during each Month in every Year from 1841 to 1860, referred to Eight Points of the Azimuthal Circle, and of CALM DAYS, as deduced from Osler's Anemometer.

MONTH.	Number of Days for different Mean Directions of the Wind.								Number of Calm Days and Days on which the Pressure of the Wind was less than $\frac{1}{4}$ lb. per Square Foot.
	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
1841.									
January	5	3	2	1	5	5	7	2	1
February	1	6	7	1	6	2	1	2	2
March	0	0	1	1	7	12	7	2	1
April	7	4	2	2	1	6	7	1	0
May	2	4	4	1	6	12	1	1	0
June	6	0	0	0	4	9	9	2	0
July	5	0	0	0	4	15	3	2	2
August	1	0	0	0	3	15	6	1	5
September	0	1	3	2	3	7	4	0	10
October	7	1	0	1	3	9	5	1	4
November	5	0	3	0	4	11	2	1	4
December	1	0	0	0	3	9	8	2	8
Sums	40	19	22	9	49	112	60	17	37
1842.									
January	6	2	0	3	2	11	1	3	3
February	1	0	3	1	4	14	1	1	3
March	4	0	0	1	3	14	6	3	0
April	1	17	10	0	0	1	0	1	0
May	3	5	0	2	5	11	2	2	1
June	2	6	4	1	2	9	3	2	1
July	6	2	2	0	5	9	4	3	0
August	2	5	6	3	3	6	4	2	0
September	5	2	3	1	2	6	6	3	2
October	10	0	0	0	1	5	5	3	7
November	5	1	3	2	1	9	2	2	5
December	1	0	0	1	3	17	4	0	5
Sums	46	40	31	15	31	112	38	25	27
1843.									
January	2	1	0	0	1	10	9	1	7
February	6	8	6	1	0	2	1	3	1
March	6	6	2	2	3	4	3	1	4
April	2	4	3	0	0	12	2	3	4
May	3	6	4	1	0	10	2	0	5
June	8	4	4	0	2	6	2	3	1
July	5	3	0	0	2	12	5	2	2
August	3	6	1	1	4	10	3	1	2
September	4	6	2	2	1	4	0	4	7
October	3	0	0	1	2	10	6	4	5
November	0	0	0	0	2	12	1	4	11
December	0	0	0	0	1	10	3	3	14
Sums	42	44	22	8	18	102	37	29	63

NUMBER of DAYS of WIND during each Month in every Year from 1841 to 1860, referred to Eight Points of the Azimuthal Circle, and of CALM DAYS, as deduced from Osler's Anemometer—*continued.*

MONTH.	Number of Days for different Mean Directions of the Wind.								Number of Calm Days and Days on which the Pressure of the Wind was less than $\frac{1}{4}$ lb. per Square Foot.
	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
1844.									
January.....	2	2	0	1	3	8	6	5	4
February.....	4	0	1	0	3	10	3	3	5
March.....	6	3	2	0	1	10	4	3	2
April.....	4	4	2	2	2	12	2	1	1
May.....	10	14	3	2	0	1	0	1	0
June.....	3	3	1	1	0	7	3	5	7
July.....	3	5	0	0	2	7	4	4	6
August.....	1	0	0	1	1	11	6	2	9
September.....	6	8	0	0	0	2	1	0	13
October.....	3	2	2	1	5	11	4	0	3
November.....	3	5	1	2	4	10	2	2	1
December.....	3	11	6	4	1	0	0	0	6
Sums.....	48	57	18	14	22	89	35	26	57
1845.									
January.....	2	2	0	3	8	10	0	4	2
February.....	4	3	1	0	5	3	2	5	5
March.....	5	10	1	3	1	5	2	4	0
April.....	4	7	1	1	4	7	0	3	3
May.....	8	6	1	0	2	3	4	3	4
June.....	1	6	1	2	1	11	3	2	3
July.....	2	4	2	0	3	14	3	2	1
August.....	2	2	1	0	3	12	7	4	0
September.....	2	7	2	1	1	10	3	1	3
October.....	0	1	0	0	5	9	6	5	5
November.....	0	1	1	3	7	7	5	0	6
December.....	0	0	0	0	3	13	8	5	2
Sums.....	30	49	11	13	43	104	43	38	34
1846.									
January.....	0	0	1	0	3	11	5	1	10
February.....	0	0	0	1	3	8	4	4	8
March.....	0	0	1	2	2	12	2	3	9
April.....	5	4	4	2	3	7	3	2	0
May.....	2	4	2	3	3	7	5	1	4
June.....	1	4	4	5	1	9	1	1	4
July.....	1	1	0	1	1	12	6	1	8
August.....	6	5	0	1	4	6	0	2	7
September.....	4	3	4	1	4	3	1	1	9
October.....	2	0	0	2	4	7	3	1	12
November.....	1	3	5	0	7	6	0	2	6
December.....	5	1	0	0	4	6	2	4	9
Sums.....	27	25	21	18	39	94	32	23	86

NUMBER of DAYS of WIND during each Month in every Year from 1841 to 1860, referred to Eight Points of the Azimuthal Circle, and of CALM DAYS, as deduced from Osler's Anemometer—*continued.*

MONTH.	Number of Days for different Mean Directions of the Wind.								Number of Calm Days and Days on which the Pressure of the Wind was less than $\frac{1}{4}$ lb. per Square Foot.
	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
1847.									
January.....	2	2	3	1	2	3	1	0	17
February.....	2	4	3	0	3	8	4	0	4
March.....	4	5	2	0	6	6	2	2	4
April.....	4	1	0	1	6	10	2	5	1
May.....	1	0	2	1	12	10	1	0	4
June.....	7	2	1	0	3	9	4	2	2
July.....	7	2	1	0	2	8	4	0	7
August.....	5	1	2	0	2	11	3	0	7
September.....	2	3	0	0	0	16	6	0	3
October.....	4	1	2	0	6	10	3	0	5
November.....	1	0	0	0	5	11	5	1	7
December.....	2	2	0	1	8	9	1	0	8
Sums.....	41	23	16	4	55	111	36	10	69
1848.									
January.....	7	6	2	5	5	3	2	1	0
February.....	2	0	0	0	3	17	6	0	1
March.....	5	0	2	6	4	8	2	3	1
April.....	8	6	1	3	4	3	2	3	0
May.....	3	5	8	4	1	4	1	0	5
June.....	3	4	1	1	4	10	4	2	1
July.....	3	4	1	0	10	6	5	1	1
August.....	1	2	0	2	6	10	3	0	7
September.....	6	6	0	2	4	5	0	2	5
October.....	6	2	0	5	10	5	0	3	0
November.....	7	0	0	4	1	12	3	3	0
December.....	2	3	4	4	6	7	1	2	2
Sums.....	53	38	19	36	58	90	29	20	23
1849.									
January.....	3	5	0	1	5	14	1	2	0
February.....	2	0	1	1	4	14	4	0	2
March.....	7	1	4	2	1	4	4	4	4
April.....	6	4	1	2	4	6	5	2	0
May.....	8	5	0	2	5	6	1	2	2
June.....	6	5	5	1	1	6	4	1	1
July.....	2	7	0	0	3	13	3	3	0
August.....	5	3	0	3	3	9	5	3	0
September.....	5	9	3	1	4	7	0	0	1
October.....	4	7	0	3	3	10	3	0	1
November.....	3	6	2	4	4	7	2	2	0
December.....	8	2	4	3	2	6	3	3	0
Sums.....	59	54	20	23	39	102	35	22	11

NUMBER of DAYS of WIND during each Month in every Year from 1841 to 1860, referred to Eight Points of the Azimuthal Circle, and of CALM DAYS, as deduced from Osler's Anemometer—continued.

MONTH.	Number of Days for different Mean Directions of the Wind.								Number of Calm Days and Days on which the Pressure of the Wind was less than $\frac{1}{4}$ lb. per Square Foot.
	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
1850.									
January.....	7	6	3	2	4	6	3	0	0
February.....	0	0	1	1	3	14	7	0	2
March.....	9	4	2	3	1	5	1	1	5
April.....	5	5	1	3	4	8	1	0	3
May.....	5	8	2	2	1	7	2	1	3
June.....	1	4	7	1	2	9	5	1	0
July.....	5	4	1	1	2	6	2	3	7
August.....	3	2	1	0	2	12	1	2	8
September.....	5	10	3	2	2	4	1	2	1
October.....	5	2	0	0	1	15	2	5	1
November.....	2	3	0	2	2	17	1	3	0
December.....	2	0	3	4	6	13	1	1	1
Sums.....	49	48	24	21	30	116	27	19	31
1851.									
January.....	0	0	1	6	5	17	0	0	2
February.....	5	3	2	1	3	7	1	0	6
March.....	5	2	0	3	2	13	2	3	1
April.....	6	5	4	3	2	8	2	0	0
May.....	7	3	1	2	3	4	1	5	5
June.....	2	2	4	0	2	10	5	4	1
July.....	5	3	2	0	2	7	5	2	5
August.....	3	7	1	0	2	9	5	2	2
September.....	5	9	4	2	1	2	1	1	5
October.....	1	1	1	1	4	13	6	2	2
November.....	10	2	0	0	1	3	5	5	4
December.....	3	2	1	2	1	7	4	1	10
Sums.....	52	39	21	20	28	100	37	25	43
1852.									
January.....	0	1	0	0	9	14	7	0	0
February.....	7	5	1	2	0	5	6	2	1
March.....	4	9	9	3	2	1	2	0	1
April.....	1	10	12	1	1	4	0	0	1
May.....	7	9	1	0	3	9	2	0	0
June.....	2	0	1	5	8	13	1	0	0
July.....	5	8	5	2	3	8	0	0	0
August.....	6	1	0	2	8	12	0	2	0
September.....	6	4	4	1	1	5	4	1	4
October.....	4	5	0	2	4	10	3	3	0
November.....	2	6	2	1	9	8	1	0	1
December.....	1	0	1	2	4	19	1	0	3
Sums.....	45	58	36	21	52	108	27	8	11

NUMBER of DAYS of WIND during each Month in every Year from 1841 to 1860, referred to Eight Points of the Azimuthal Circle, and of CALM DAYS, as deduced from Osler's Anemometer—*continued.*

MONTH.	Number of Days for different Mean Directions of the Wind.								Number of Calm Days and Days on which the Pressure of the Wind was less than $\frac{1}{4}$ lb. per Square Foot.
	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
1853.									
January.....	3	4	0	0	7	12	2	1	2
February.....	8	6	1	3	1	2	1	1	5
March.....	1	10	2	2	1	6	2	2	5
April.....	3	4	2	1	1	4	6	6	3
May.....	1	13	4	4	0	2	2	2	3
June.....	7	2	0	2	1	13	1	1	3
July.....	0	2	1	1	2	18	4	3	0
August.....	5	5	3	1	3	9	2	0	3
September.....	4	5	0	4	2	8	3	2	2
October.....	1	4	1	2	6	8	3	0	6
November.....	4	2	1	4	4	4	3	3	5
December.....	6	8	1	3	0	0	3	6	4
Sums.....	43	65	16	27	28	86	32	27	41
1854.									
January.....	2	3	1	9	5	8	1	2	0
February.....	2	2	1	0	3	11	1	7	1
March.....	3	4	0	1	4	11	2	3	3
April.....	4	7	8	1	0	3	4	3	0
May.....	2	5	0	0	4	17	1	0	2
June.....	3	5	1	2	3	10	5	1	0
July.....	2	5	2	1	3	8	4	0	6
August.....	3	2	0	1	0	14	2	3	6
September.....	1	5	1	0	2	6	4	2	9
October.....	1	4	3	2	2	5	5	3	6
November.....	7	3	0	3	3	11	1	2	0
December.....	1	0	0	0	1	13	12	4	0
Sums.....	31	45	17	20	30	117	42	30	33
1855.									
January.....	5	10	1	0	0	7	2	2	4
February.....	5	12	3	1	1	3	0	0	3
March.....	5	6	5	3	6	3	2	0	1
April.....	7	9	2	2	1	2	5	1	1
May.....	8	7	2	3	1	6	0	3	1
June.....	4	4	1	1	2	12	0	2	4
July.....	3	3	3	0	2	12	3	1	4
August.....	2	0	0	2	2	10	5	4	6
September.....	3	11	1	3	2	5	2	1	2
October.....	4	2	1	0	2	9	5	7	1
November.....	7	8	0	2	4	3	2	2	2
December.....	3	2	4	0	2	12	4	3	1
Sums.....	56	74	23	17	25	84	30	26	30

NUMBER of DAYS of WIND during each Month in every Year from 1841 to 1860, referred to Eight Points of the Azimuthal Circle, and of CALM DAYS, as deduced from Osler's Anemometer—*continued*.

MONTH.	Number of Days for different Mean Directions of the Wind.								Number of Calm Days and Days on which the Pressure of the Wind was less than $\frac{1}{2}$ lb. per Square Foot.
	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
1856.									
January.....	0	7	1	4	6	7	4	0	2
February.....	2	5	2	2	6	7	4	1	0
March.....	4	12	10	3	0	0	0	1	1
April.....	1	6	2	6	6	6	0	2	1
May.....	10	3	0	2	4	9	1	2	0
June.....	2	3	0	0	0	11	9	4	1
July.....	1	2	1	2	1	8	11	4	1
August.....	3	3	3	4	3	8	5	0	2
September.....	4	2	3	3	1	7	4	2	4
October.....	2	6	4	4	1	4	3	0	7
November.....	9	2	1	0	1	2	3	9	3
December.....	6	3	0	0	2	11	6	1	2
Sums.....	44	54	27	30	31	80	50	26	24
1857.									
January.....	7	6	0	0	3	8	6	1	0
February.....	0	4	0	2	4	12	1	2	3
March.....	1	2	4	6	3	7	2	4	2
April.....	1	5	2	3	4	8	2	4	1
May.....	1	13	5	1	1	8	2	0	0
June.....	0	4	7	2	3	8	2	2	2
July.....	0	4	0	0	1	16	5	5	0
August.....	2	7	2	2	1	10	3	1	3
September.....	1	4	0	2	5	12	2	1	3
October.....	3	1	2	5	3	9	4	0	4
November.....	5	8	6	3	2	2	0	0	4
December.....	0	0	0	1	3	19	5	1	2
Sums.....	21	58	28	27	33	119	34	21	24
1858.									
January.....	3	2	1	2	4	11	6	1	1
February.....	1	7	8	7	1	3	0	1	0
March.....	1	4	3	1	1	6	6	5	4
April.....	4	7	7	3	1	4	3	1	0
May.....	4	5	1	0	1	14	5	1	0
June.....	1	5	1	1	3	13	3	3	0
July.....	4	2	0	2	3	9	4	7	0
August.....	3	6	3	2	3	7	3	4	0
September.....	1	5	2	3	2	13	1	2	1
October.....	1	7	4	1	1	10	5	2	0
November.....	2	10	6	2	1	5	0	0	4
December.....	1	1	2	3	5	11	4	2	2
Sums.....	26	61	38	27	26	106	40	29	12

FOR EIGHT POINTS OF AZIMUTH, AND OF CALM DAYS.

(clxxix)

NUMBER of DAYS of WIND during each Month in every Year from 1841 to 1860, referred to Eight Points of the Azimuthal Circle, and of CALM DAYS, as deduced from Osler's Anemometer—concluded.

MONTH.	Number of Days for different Mean Directions of the Wind.								Number of Calm Days and Days on which the Pressure of the Wind was less than $\frac{1}{4}$ lb. per Square Foot.
	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
1859.									
January	2	3	0	0	0	18	5	2	1
February.....	1	0	0	1	3	14	5	4	0
March.....	2	0	0	0	2	15	6	6	0
April.....	4	2	2	3	3	11	1	4	0
May.....	1	23	4	2	1	0	0	0	0
June.....	4	7	0	6	0	4	4	4	1
July.....	3	6	1	1	2	13	3	1	1
August.....	2	3	0	1	4	11	5	4	1
September.....	4	1	1	1	2	13	3	4	1
October.....	1	2	3	4	3	9	4	1	4
November.....	3	3	2	6	4	9	2	0	1
December.....	4	4	3	4	1	11	2	1	1
Sums.....	31	54	16	29	25	128	40	31	11
1860.									
January.....	2	0	1	4	5	12	4	3	0
February.....	6	7	1	0	3	4	5	3	0
March.....	2	3	0	0	1	11	8	6	0
April.....	3	10	3	2	1	3	4	4	0
May.....	0	2	5	2	1	11	7	2	1
June.....	2	1	0	2	1	19	5	0	0
July.....	6	7	1	0	0	10	1	5	1
August.....	1	0	0	0	2	17	9	2	0
September.....	4	4	1	2	1	10	5	1	2
October.....	0	2	0	2	2	14	10	1	0
November.....	0	8	8	2	2	5	1	2	2
December.....	4	3	6	3	3	4	5	2	1
Sums.....	30	47	26	19	22	120	64	31	7

III.—MONTHLY STATEMENT OF THE MEAN DAILY HORIZONTAL MOVEMENT OF THE AIR IN MILES, AS FOUND BY CONVERTING THE OBSERVED INDICATIONS OF WHEWELL'S ANEMOMETER INTO CORRESPONDING INDICATIONS OF ROBINSON'S ANEMOMETER, FROM 1843 TO 1859.

During the years 1843 to 1859 Whewell's anemometer was in use, and during the Years 1860 and 1861 both Whewell's and Robinson's were in operation. The daily comparison of their results in the two last years showed clearly, that in strong winds the horizontal movement of the air, as shown by Whewell's anemometer, was less than one-half of that shown by Robinson's anemometer, and in light winds the difference between the two was very much greater.

From experiments made in the year 1861, the scale of velocity as indicated by Robinson's was found to be correct, and in accordance with the theory of the inventor.

The ratio of the scale of velocity as shown by Whewell's anemometer to that of Robinson's anemometer, was found to be so systematic, that every result given by the former would be readily convertible into that which would have been given by the latter, when the two instruments had been in simultaneous operation a sufficient length of time to determine satisfactorily the ratio existing between them for different velocities of the wind. For obtaining this ratio all the simultaneous results have been classified, and their discussion has led to the formation of the following Table of Factors.

TABLE OF FACTORS to be multiplied into the READINGS of WHEWELL'S ANEMOMETER expressed in MILES at different VELOCITIES of the WIND, in order to determine the HORIZONTAL MOVEMENT of the AIR in MILES, as it would have been shown by the USE of ROBINSON'S ANEMOMETER.

Daily Horizontal Movement in Miles, as shown by Whewell's Anemometer.	Factors to be multiplied into Results by Whewell's Anemometer, to convert them into Results by Robinson's Anemometer.
Less than 10	9.95
From 10 to 20	7.62
20 to 30	5.38
30 to 40	4.10
40 to 50	3.40
50 to 60	3.00
60 to 70	2.75
70 to 80	2.56
80 to 90	2.44
90 to 100	2.36
100 to 110	2.30
110 to 120	2.25
120 to 130	2.21
130 to 140	2.17
140 to 150	2.14
150 to 160	2.12
160 to 170	2.10
Above 170	2.09

These factors have been used in deducing the values given in the following Tables, under the heading of Robinson's Anemometer, from the observed results of Whewell's Anemometer.

MONTHLY STATEMENT of the MEAN DAILY HORIZONTAL MOVEMENT of the AIR, in MILES, as found by converting the OBSERVED INDICATIONS of WHEWELL'S ANEMOMETER into corresponding INDICATIONS of ROBINSON'S ANEMOMETER, from 1843, September, to 1859, October; with the INDICATIONS of ROBINSON'S ANEMOMETER, as observed in November and December.

Month.	1843.	1844.	1845.	1846.	1847.	1848.	1849.	1850.	1851.	1852.	1853.	1854.	1855.	1856.	1857.	1858.	1859.
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.
January....	..	322	339	..	242	266	435	237	278	340	259	250	160	229	239	267	242
February...	..	362	267	251	312	514	286	366	212	329	200	291	176	284	174	203	320
March.....	..	520	349	319	252	310	..	197	261	229	174	205	176	234	215	212	318
April.....	..	..	338	250	261	284	171	251	200	222	263	200	227	288	215	187	291
May.....	..	338	289	219	..	227	216	234	195	217	229	233	266	317	176	227	195
June.....	..	340	249	212	317	370	182	215	291	235	232	235	212	197	267	139	168
July.....	..	..	235	302	224	304	261	210	248	165	261	202	184	215	235	197	171
August....	..	195	286	219	246	304	202	268	242	219	174	202	246	190	150	..	210
September..	250	217	285	197	312	229	176	200	187	168	217	203	192	222	168	232	229
October....	329	340	286	337	261	310	229	267	242	217	187	212	244	167	200	244	165
November..	349	284	339	302	286	359	219	335	182	344	168	233	173	222	153	184	209
December..	281	200	424	285	362	347	261	244	181	368	156	389	257	302	250	217	152
Means....	..	312	307	263	280	319	240	252	227	254	210	238	209	239	204	210	223

The following TABLE shows the NUMBER of DAYS from which each MEAN is derived, in those MONTHS in which the ANEMOMETER was not in use every DAY.

1843 September.....	15	1846 February.....	18	1850 March.....	29	1855 January.....	14
October.....	25	1847 June.....	15	April.....	23	February.....	21
1844 March.....	12	December.....	22	1852 February.....	22	1859 January.....	21
May.....	27	1848 January.....	24	September.....	26	February.....	20
June.....	17	April.....	28	October.....	24	March.....	23
August.....	10	August.....	21	1853 April.....	22	October.....	23
October.....	25	September.....	23	December.....	27	December.....	22
1845 August.....	9	1849 April.....	9	1854 May.....	24		
December.....	27	July.....	23	July.....	28		
		October.....	28	September.....	16		

IV.—WEEKLY AND MONTHLY MEANS OF THE READINGS OF THE DEEP-SUNK THERMOMETERS, FROM
1848 TO 1855.

In the printed volumes of Meteorological Observations from the year 1848 to 1855 inclusive, the Daily Readings of Thermometers sunk in the ground are given; since that time the Weekly and Monthly Means have been published as well as the Daily Observations.

The whole of the Weekly and Monthly Temperatures of all the Deep-sunk Thermometers for the years 1848 to 1855 are given in the Tables here subjoined.

WEEKLY MEANS OF READINGS OF DEEP-SUNK THERMOMETERS.

1848. Period.	Thermometers sunk in the ground.					Thermometer inclosed in the box which covers the scales of the Deep-sunk Ther- mometers, and placed on a level with their scales.
	Bulb 24 French Feet deep.	Bulb 12 French Feet deep.	Bulb 6 French Feet deep.	Bulb 3 French Feet deep.	Bulb 1 Inch deep.	
January 1 to 7	51.65	50.62	47.17	43.27	41.8	42.1
8 to 14	51.55	50.02	46.38	41.93	38.6	37.4
15 to 21	51.45	49.45	45.56	41.19	37.0	35.5
22 to 28	51.32	48.87	44.67	39.58	31.8	29.3
29 to February 4	51.21	48.30	43.79	38.98	38.8	40.3
February 5 to 11	51.09	47.67	43.73	41.73	46.4	48.0
12 to 18	50.91	47.17	44.51	43.02	43.1	44.1
19 to 25	50.74	47.05	44.72	42.22	44.8	47.1
26 to March 3	50.51	46.75	44.82	43.50	44.8	45.3
March 4 to 10	50.31	46.69	44.90	42.68	42.4	44.4
11 to 17	50.14	46.66	44.88	42.78	42.5	42.7
18 to 24	49.92	46.47	44.75	42.92	45.0	47.1
25 to 31	49.79	46.46	45.20	44.78	49.4	52.9
April 1 to 7	49.66	46.53	46.46	48.06	53.8	59.4
8 to 14	49.51	46.79	47.49	47.21	47.0	49.3
15 to 21	49.30	47.05	47.62	47.65	50.4	53.0
22 to 26	49.13	47.27	48.10	48.05	47.6	47.0
29 to May 5	49.11	47.54	48.13	48.00	53.2	59.3
May 6 to 12	49.10	47.77	49.32	52.45	62.6	71.8
13 to 19	49.05	48.11	51.45	56.26	64.0	68.6
20 to 28	49.04	48.79	53.07	56.92	62.8	69.0
27 to June 2	49.03	49.52	54.11	58.19	61.7	65.3
June 3 to 9	49.05	50.20	54.67	57.34	60.5	62.8
10 to 16	49.11	50.80	54.96	57.57	62.1	65.4
17 to 23	49.20	51.29	55.55	58.95	63.9	66.3
24 to 30	49.30	51.73	56.25	59.61	61.7	62.9
July 1 to 7	49.44	52.26	56.61	59.34	64.5	68.6
8 to 14	49.58	52.71	57.28	60.88	65.8	71.7
15 to 21	49.73	53.14	58.52	62.72	66.3	69.0
22 to 28	49.87	53.62	59.13	61.76	63.3	65.3
29 to August 4	50.04	54.11	59.28	61.57	62.8	65.4
August 5 to 11	50.21	54.46	59.25	60.45	60.5	63.3
12 to 18	50.38	54.75	58.83	59.93	60.9	63.2
19 to 25	50.57	54.94	58.70	59.54	59.2	61.1
26 to September 1	50.77	55.09	58.38	59.69	61.6	64.1
September 2 to 8	50.97	55.23	58.33	59.89	62.5	67.1
9 to 15	51.10	55.25	58.21	59.05	56.2	60.2
16 to 22	51.28	55.37	57.58	57.21	57.6	66.1
23 to 29	51.42	55.31	57.00	57.58	59.5	61.1
30 to October 6	51.62	55.31	56.99	57.45	59.9	63.7
October 7 to 13	51.72	55.19	56.86	57.29	55.5	58.3
14 to 20	51.80	55.08	56.03	54.26	50.2	48.5
21 to 27	51.95	54.96	54.55	52.12	51.4	53.7
28 to November 3	52.08	54.56	53.44	51.10	48.5	50.1
November 4 to 10	52.13	54.11	52.51	48.83	42.9	43.5
11 to 17	52.16	53.58	51.01	46.52	42.8	44.5
18 to 24	52.18	52.97	49.88	46.22	47.4	49.5
25 to December 1	52.17	52.32	49.48	46.92	47.5	47.4
December 2 to 8	52.16	51.80	49.24	46.33	47.3	49.9
9 to 15	52.11	51.34	49.01	47.29	50.1	52.4
16 to 22	52.02	50.94	48.90	46.58	43.3	42.9
23 to 31	51.90	50.65	47.83	43.49	42.0	42.2

WEEKLY MEANS OF READINGS OF DEEP-SUNK THERMOMETERS

WEEKLY MEANS OF READINGS OF DEEP-SUNK THERMOMETERS— <i>continued.</i>								
1849. Period.	Thermometers sunk in the ground.					Thermometer inclosed in the box which covers the scales of the Deep-sunk Ther- mometers, and placed on a level with their scales.		
	Bulb 24 French Feet deep.	Bulb 12 French Feet deep.	Bulb 6 French Feet deep.	Bulb 3 French Feet deep.	Bulb 1 Inch deep.			
January	d	d	o	o	o	o	o	
1 to	January	7	51·84	50·11	46·78	42·06	34·4	32·0
8 to		14	51·64	49·60	45·49	40·70	41·0	41·6
15 to		21	51·54	49·02	45·28	42·71	45·7	47·8
22 to		28	51·40	48·55	45·87	44·32	45·9	47·8
29 to	February	4	51·21	48·26	45·96	43·05	41·7	42·3
February								
5 to		11	51·06	48·11	45·79	43·89	45·2	47·0
12 to		18	50·86	47·88	45·77	42·91	40·6	42·9
19 to		25	50·71	47·70	45·43	43·25	45·6	48·4
26 to	March	4	50·51	47·38	45·31	42·97	43·2	46·2
March								
5 to		11	50·33	47·21	45·34	43·74	43·7	46·5
12 to		18	50·19	47·13	45·39	43·38	46·9	50·4
19 to		25	50·03	47·05	45·71	44·36	43·5	43·5
26 to	April	1	49·89	46·99	45·67	43·30	43·7	46·2
April								
2 to		8	49·77	46·91	45·67	44·59	47·8	51·3
9 to		15	49·66	46·94	46·35	45·70	45·5	46·8
16 to		22	49·50	46·91	46·33	44·42	42·2	43·4
23 to		29	49·39	46·94	45·97	44·47	48·3	52·2
30 to	May	6	49·32	46·89	46·75	47·83	56·8	64·6
May								
7 to		13	49·20	47·03	48·34	50·07	50·9	50·5
14 to		20	49·13	47·42	49·09	50·68	56·2	59·8
21 to		27	49·07	47·85	50·14	52·52	58·7	64·0
28 to	June	3	48·98	48·39	51·99	55·56	62·0	67·7
June								
4 to		10	48·96	48·99	53·40	57·93	64·4	70·2
11 to		17	48·97	49·68	54·49	57·59	59·5	64·3
18 to		24	49·04	50·42	55·00	58·22	63·5	69·3
25 to	July	1	49·08	51·01	55·89	60·39	65·7	69·5
July								
2 to		8	49·20	51·62	56·85	60·77	65·7	69·7
9 to		15	49·34	52·26	57·69	62·73	69·5	76·4
16 to		22	49·45	52·83	58·05	62·87	64·5	66·5
23 to		29	49·59	53·41	58·00	60·70	61·0	63·4
30 to	August	5	49·79	53·87	57·88	60·64	62·7	67·9
August								
6 to		12	50·01	54·22	58·33	61·21	68·9	74·2
13 to		19	50·18	54·43	58·25	62·05	63·3	65·9
20 to		26	50·37	54·75	58·22	61·07	64·7	68·8
27 to	September	2	50·58	55·05	58·68	60·33	65·5	69·0
September								
3 to		9	50·75	55·28	58·21	62·16	64·8	70·7
10 to		16	50·90	55·47	58·05	60·58	61·0	62·2
17 to		23	51·09	55·64	57·99	58·79	59·8	61·9
24 to		30	51·27	55·69	57·92	58·26	60·7	65·6
October								
1 to	October	7	51·41	55·55	57·61	57·52	53·3	53·6
8 to		14	51·57	55·47	56·51	54·42	49·1	50·2
15 to		21	51·74	55·29	55·05	52·31	54·1	59·9
22 to		28	51·86	54·84	54·48	53·71	55·8	59·4
29 to	November	4	51·91	54·46	54·43	53·31	51·5	55·0
November								
5 to		11	52·01	54·17	53·67	51·43	50·3	52·4
12 to		18	52·06	53·86	52·99	50·81	47·8	50·3
19 to		25	52·07	53·47	51·93	48·64	46·1	45·6
26 to	December	2	52·07	53·00	50·74	45·95	39·1	38·0
December								
3 to		9	52·11	52·47	49·04	44·82	42·8	42·5
10 to		16	52·09	51·78	48·31	44·07	42·3	41·4
17 to		23	52·02	51·10	47·84	45·25	43·6	43·2
24 to		31	51·90	50·49	47·08	44·08	35·7	34·9

WEEKLY MEANS OF READINGS OF DEEP-SUNK THERMOMETERS—continued.

1850. Period.	Thermometers sunk in the ground.					Thermometer inclosed in the box which covers the scales of the Deep-sunk Ther- mometers, and placed on a level with their scales.
	Bulb 24 French Feet deep.	Bulb 12 French Feet deep.	Bulb 6 French Feet deep.	Bulb 3 French Feet deep.	Bulb 1 Inch deep.	
January 1 to 7	51.80	49.96	45.74	40.52	37.3	36.7
8 to 14	51.68	49.30	44.81	39.38	33.6	31.3
15 to 21	51.53	48.62	44.51	38.24	34.3	33.0
22 to 28	51.40	47.97	43.09	38.26	39.8	39.9
29 to February 4	51.24	47.34	43.06	39.90	43.4	45.8
February 5 to 11	51.05	46.85	43.71	41.50	43.6	46.3
12 to 18	50.84	46.63	43.96	41.42	43.6	46.1
19 to 25	50.62	46.46	44.25	42.85	45.8	48.9
26 to March 4	50.40	46.40	44.76	43.12	43.8	46.1
March 5 to 11	50.19	46.38	44.95	43.27	43.3	46.3
12 to 18	50.00	46.43	45.02	42.85	41.7	45.2
19 to 25	49.81	46.36	44.68	41.86	41.2	44.4
26 to April 1	49.64	46.23	44.27	40.90	40.4	44.0
April 2 to 8	49.52	46.09	44.28	43.71	51.2	56.1
9 to 15	49.38	46.01	45.51	46.10	49.7	52.5
16 to 22	49.33	46.14	46.47	46.98	52.3	54.3
23 to 29	49.12	46.33	47.19	47.52	49.1	53.3
30 to May 6	49.00	46.70	47.68	47.96	49.4	52.0
May 7 to 13	48.92	47.03	48.02	47.93	49.9	52.0
14 to 20	48.82	47.21	48.39	49.15	52.1	55.3
21 to 27	48.79	47.50	49.33	51.61	58.3	63.1
28 to June 3	48.80	47.92	50.65	53.74	59.0	67.9
June 4 to 10	48.75	48.36	52.20	56.64	62.9	68.1
11 to 17	48.75	49.05	53.60	57.45	61.5	64.0
18 to 24	48.83	49.75	54.52	57.82	65.7	75.2
25 to July 1	48.79	50.42	55.61	60.95	66.4	72.0
July 2 to 8	48.90	51.04	56.52	60.04	61.9	64.8
9 to 15	49.01	51.73	56.60	59.20	63.9	71.7
16 to 22	49.15	52.22	57.15	61.60	67.8	72.8
23 to 29	49.28	52.71	57.75	62.04	67.9	67.3
30 to August 5	49.45	53.24	58.18	61.05	64.9	69.0
August 6 to 12	49.65	53.69	58.74	62.09	65.4	69.4
13 to 19	49.81	54.06	59.10	61.92	64.5	69.1
20 to 26	49.98	54.41	59.34	61.01	60.4	64.8
27 to September 2	50.19	54.72	58.91	59.69	59.6	63.3
September 3 to 9	50.38	54.89	58.36	58.66	58.7	63.8
10 to 16	50.58	54.94	57.62	57.84	58.8	65.6
17 to 23	50.76	54.89	57.24	57.72	59.3	64.0
24 to 30	50.93	54.83	57.00	57.53	57.7	59.8
October 1 to 7	51.08	54.78	56.52	56.06	54.1	57.4
8 to 14	51.21	54.64	55.59	53.95	50.0	52.7
15 to 21	51.34	54.44	54.40	51.90	50.4	55.0
22 to 28	51.41	54.02	53.38	50.45	45.8	46.2
29 to November 4	51.53	53.62	52.16	48.93	49.5	51.7
November 5 to 11	51.62	53.21	51.67	49.86	50.4	53.6
12 to 18	51.63	52.67	51.41	49.26	46.8	48.2
19 to 25	51.66	52.35	50.74	48.34	49.5	50.5
26 to December 2	51.64	51.84	50.22	47.27	44.4	41.7
December 3 to 9	51.64	51.61	49.21	45.62	44.2	44.0
10 to 16	51.57	51.10	48.49	45.11	44.4	44.7
17 to 23	51.50	50.55	47.83	43.96	39.0	37.2
24 to 31	51.44	50.07	46.50	41.96	42.9	43.6

WEEKLY MEANS OF READINGS OF DEEP-SUNK THERMOMETERS

WEEKLY MEANS OF READINGS OF DEEP-SUNK THERMOMETERS—continued.								
1851. Period.	Thermometers sunk in the ground.					Thermometer inclosed in the box which covers the scales of the Deep-sunk Ther- mometers, and placed on a level with their scales.		
	Bulb 24 French Feet deep.	Bulb 12 French Feet deep.	Bulb 6 French Feet deep.	Bulb 3 French Feet deep.	Bulb 1 Inch deep.			
January	d	d	o	o	o	o	o	
1 to	January	7	51.46	49.51	46.32	44.07	46.0	47.3
8 to		14	51.25	49.02	46.52	43.96	44.8	46.6
15 to		21	51.12	48.67	46.48	44.27	45.1	46.0
22 to		28	50.97	48.41	46.11	42.85	41.0	42.3
29 to	February	4	50.83	48.17	45.37	42.10	42.5	42.8
February								
5 to		11	50.70	47.77	44.89	41.76	42.8	45.1
12 to		18	50.58	47.48	44.73	41.51	41.8	43.7
19 to		25	50.41	47.23	44.58	41.86	45.2	48.4
26 to	March	4	50.24	46.91	44.64	41.73	40.8	41.1
March								
5 to		11	50.09	46.69	44.30	41.32	41.7	44.0
12 to		18	49.90	46.42	44.06	41.38	42.7	45.1
19 to		25	49.70	46.04	44.06	41.86	46.7	50.3
26 to	April	1	49.53	45.94	44.93	44.34	47.1	50.8
April								
2 to		8	49.39	46.12	45.56	44.68	46.3	49.0
9 to		15	49.23	46.27	45.71	44.29	45.5	47.2
16 to		22	49.14	46.33	46.06	46.10	52.4	54.1
23 to		29	48.97	46.43	47.27	48.22	50.8	54.0
30 to	May	6	48.85	46.73	47.80	47.26	48.1	51.6
May								
7 to		13	48.79	47.02	47.90	48.09	54.3	57.4
14 to		20	48.73	47.25	48.80	50.21	54.8	58.5
21 to		27	48.71	47.60	49.66	51.58	57.3	61.6
28 to	June	3	48.72	48.06	50.84	54.08	61.1	68.8
June								
4 to		10	48.68	48.47	52.22	55.56	59.0	59.2
11 to		17	48.69	49.10	53.01	55.65	58.8	63.3
18 to		24	48.73	49.66	53.69	57.04	63.1	71.6
25 to	July	1	48.82	50.26	54.95	59.52	68.4	78.6
July								
2 to		8	48.90	50.87	56.52	61.62	65.2	70.1
9 to		15	48.97	51.56	57.21	60.74	62.9	66.9
16 to		22	49.11	52.25	57.40	60.26	62.9	67.5
23 to		29	49.25	52.70	57.45	60.22	63.2	65.5
30 to	August	5	49.42	53.16	57.94	61.45	66.0	71.7
August								
6 to		12	49.59	53.54	58.46	63.12	67.5	72.9
13 to		19	49.78	54.02	59.05	63.52	67.2	72.0
20 to		26	49.97	54.42	59.51	63.12	64.7	71.9
27 to	September	2	50.14	54.90	59.02	60.02	61.3	64.0
September								
3 to		9	50.34	55.18	58.80	60.84	63.2	65.2
10 to		16	50.54	55.32	58.67	59.79	59.3	66.7
17 to		23	50.73	55.49	58.36	59.09	60.0	65.2
24 to		30	50.92	55.36	57.96	58.14	56.0	59.7
October								
1 to	October	7	51.10	55.31	57.12	56.24	55.0	58.9
8 to		14	51.24	55.20	56.29	55.56	57.1	61.7
15 to		21	51.50	54.90	55.88	55.17	54.4	57.1
22 to		28	51.52	54.69	55.35	54.81	54.7	55.2
29 to	November	4	51.59	54.38	54.68	52.33	45.6	43.6
November								
5 to		11	51.67	54.12	53.07	48.66	44.0	45.8
12 to		18	51.72	53.59	51.50	47.22	41.1	40.2
19 to		25	51.76	52.96	49.83	44.01	39.4	41.0
26 to	December	2	51.81	52.23	48.30	42.77	37.5	36.4
December								
3 to		9	51.84	51.47	47.23	42.56	43.8	44.0
10 to		16	51.76	50.61	47.07	44.16	43.1	42.2
17 to		23	51.68	50.07	47.02	44.02	44.6	45.0
24 to		31	51.54	49.58	46.83	43.22	39.0	37.3

WEEKLY MEANS OF READINGS OF DEEP-SUNK THERMOMETERS—continued.

1852. Period.	Thermometers sunk in the ground.					Thermometer inclosed in the box which covers the scales of the Deep-sunk Ther- mometers, and placed on a level with their scales.	
	Bulb 24 French Feet deep.	Bulb 12 French Feet deep.	Bulb 6 French Feet deep.	Bulb 3 French Feet deep.	Bulb 1 Inch deep.		
January	d	d	o	o	o	o	o
1 to January	7	51°41	49°21	45°96	41°53	40°2	41°2
8 to	14	51°28	48°76	45°27	41°59	43°2	44°2
15 to	21	51°13	48°22	45°23	42°99	45°6	47°6
22 to	28	50°98	47°90	45°38	42°64	42°8	43°6
29 to February	4	50°81	47°66	45°10	42°45	44°0	46°2
February							
5 to	11	50°62	47°37	45°29	43°64	43°9	44°8
12 to	18	50°46	47°20	45°19	42°07	41°7	45°1
19 to	25	50°28	47°03	44°74	41°39	38°5	40°2
26 to March	3	50°12	46°78	44°18	40°63	40°6	43°6
March							
4 to	10	49°98	46°50	43°77	40°06	40°0	44°8
11 to	17	49°80	46°25	43°65	40°98	42°2	44°2
18 to	24	49°71	46°00	43°96	42°05	45°3	53°5
25 to	31	49°54	45°94	44°48	43°31	46°1	49°1
April							
1 to April	7	49°40	45°92	45°00	44°22	46°5	51°7
8 to	14	49°25	46°00	45°71	45°61	50°0	57°9
15 to	21	49°10	46°14	46°60	47°09	49°1	53°3
22 to	28	48°98	46°41	47°33	47°67	52°9	59°0
29 to May	5	48°83	46°60	47°93	48°49	51°8	55°9
May							
6 to	12	48°75	46°93	48°50	49°51	54°9	60°4
13 to	19	48°68	47°28	49°38	51°36	57°5	61°5
20 to	26	48°66	47°73	50°56	53°22	57°1	60°3
27 to June	2	48°64	48°25	51°34	53°12	54°2	57°9
June							
3 to	9	48°64	48°74	51°74	53°87	59°2	62°8
10 to	16	48°65	49°16	52°59	54°59	56°2	58°8
17 to	23	48°70	49°62	53°06	55°45	60°2	63°5
24 to	30	48°77	50°06	53°96	57°15	62°6	64°7
July							
1 to July	7	48°85	50°57	55°10	59°38	70°2	77°5
8 to	14	48°93	51°14	57°04	63°62	72°5	80°0
15 to	21	49°05	51°96	58°73	65°28	71°5	77°4
22 to	28	49°20	52°91	59°23	65°52	70°2	75°8
29 to August	4	49°35	53°68	59°45	65°76	68°9	72°2
August							
5 to	11	49°51	54°36	59°42	63°91	64°2	66°5
12 to	18	49°72	54°94	59°17	62°20	63°8	68°3
19 to	25	49°94	55°36	59°00	62°88	65°1	68°0
26 to September	1	50°20	55°58	59°46	63°46	66°0	70°8
September							
2 to	8	50°45	55°83	59°43	63°19	68°2	69°4
9 to	15	50°66	56°05	59°41	61°98	61°4	63°9
16 to	22	50°87	56°20	58°20	59°40	57°4	58°7
23 to	29	51°11	56°24	58°76	57°89	57°8	61°5
30 to October	6	51°34	56°07	57°58	56°22	52°8	54°4
October							
7 to	13	51°56	55°83	56°10	53°29	49°1	51°7
14 to	20	51°73	55°39	54°81	52°29	50°6	54°6
21 to	27	51°84	54°85	53°94	51°68	50°5	51°6
28 to November	3	52°04	54°36	52°94	50°59	51°6	54°1
November							
4 to	10	52°14	53°88	52°80	51°95	54°2	56°3
11 to	17	52°21	53°51	52°64	51°61	51°4	51°8
18 to	24	52°25	53°16	52°02	49°80	46°5	46°1
25 to December	1	52°25	52°80	51°06	48°01	44°6	46°2
December							
2 to	8	52°21	52°50	50°27	47°17	47°7	48°4
9 to	15	52°14	52°05	50°07	48°20	50°8	52°4
16 to	22	52°01	51°71	50°05	47°91	47°3	48°2
23 to	31	51°95	51°33	49°52	47°12	47°3	48°3

WEEKLY MEANS of READINGS of DEEP-SUNK THERMOMETERS— <i>continued.</i>								
1853. Period.		Thermometers sunk in the ground.					Thermometer inclosed in the box which covers the scales of the Deep-sunk Ther- mometers, and placed on a level with their scales.	
		Bulb 24 French Feet deep.	Bulb 12 French Feet deep.	Bulb 6 French Feet deep.	Bulb 3 French Feet deep.	Bulb 1 Inch deep.		
	d	d	o	o	o	o	o	
January	1 to	January 7	51·85	51·00	49·16	46·86	47·5	48·8
	8 to	14	51·74	50·67	48·63	45·81	45·8	46·9
	15 to	21	51·65	50·32	48·04	44·85	44·4	45·5
	22 to	28	51·48	49·90	47·42	43·86	40·6	39·5
	29 to	February 4	51·34	49·48	46·64	42·55	39·3	38·6
February	5 to	11	51·23	49·09	45·91	41·78	39·0	38·2
	12 to	18	51·06	48·61	45·20	40·42	35·3	35·6
	19 to	25	50·97	48·17	44·22	38·75	35·5	36·4
	26 to	March 4	50·79	47·51	43·26	38·31	37·3	38·8
March	5 to	11	50·68	46·97	43·09	40·35	44·6	49·0
	12 to	18	50·47	46·51	43·99	42·14	43·8	42·1
	19 to	25	50·28	46·32	44·01	40·37	37·2	38·3
	26 to	April 1	50·09	46·18	43·43	39·99	44·7	49·5
April	2 to	8	49·90	45·89	43·91	43·42	49·5	53·3
	9 to	15	49·71	45·85	45·17	44·73	46·3	48·7
	16 to	22	49·54	45·99	45·65	45·26	47·2	51·3
	23 to	29	49·33	46·15	46·22	45·60	44·2	46·4
	30 to	May 6	49·15	46·32	46·59	47·06	52·5	56·8
May	7 to	13	48·99	46·55	47·55	47·52	48·3	49·9
	14 to	20	48·92	46·90	48·11	49·65	58·3	66·1
	21 to	27	48·83	47·15	49·82	53·21	61·0	72·3
	28 to	June 3	48·77	47·74	51·52	54·66	58·3	60·2
June	4 to	10	48·75	48·47	52·27	54·94	63·6	69·5
	11 to	17	48·76	49·12	53·41	57·06	63·6	69·1
	18 to	24	48·77	49·71	54·38	57·46	61·6	66·0
	25 to	July 1	48·86	50·39	54·80	58·27	63·4	66·5
July	2 to	8	48·93	50·94	55·62	59·02	62·5	71·1
	9 to	15	49·03	51·65	56·86	60·97	63·6	65·5
	16 to	22	49·18	52·50	57·93	59·84	62·9	65·6
	23 to	29	49·34	52·85	57·90	60·46	64·1	68·4
	30 to	August 5	49·52	53·26	58·14	61·24	66·3	70·9
August	6 to	12	49·72	53·63	58·71	62·04	65·5	71·6
	13 to	19	49·88	53·99	59·15	61·84	63·9	67·0
	20 to	26	50·07	54·39	59·18	61·64	64·0	67·0
	27 to	September 2	50·28	54·71	58·93	60·08	60·1	63·7
September	3 to	9	50·48	54·94	58·45	59·05	59·6	63·0
	10 to	16	50·70	55·04	57·97	58·62	60·3	63·0
	17 to	23	50·90	55·05	57·76	58·39	59·9	63·4
	24 to	30	51·08	55·04	57·30	56·98	61·6	58·3
October	1 to	October 7	51·21	54·94	56·33	54·86	58·5	52·9
	8 to	14	51·38	54·78	55·31	54·13	54·6	56·8
	15 to	21	51·54	54·50	54·85	53·46	51·4	53·8
	22 to	28	51·69	54·25	54·23	53·38	57·1	60·8
	29 to	November 4	51·81	53·95	54·08	62·82	52·0	54·6
November	5 to	11	51·83	53·68	53·42	51·59	49·7	50·4
	12 to	18	51·83	53·33	52·22	48·49	42·7	41·9
	19 to	25	51·83	52·88	50·50	45·11	39·3	40·1
	26 to	December 2	51·85	52·23	48·56	43·92	43·6	43·8
December	3 to	9	51·82	51·51	48·04	44·13	42·2	41·5
	10 to	16	51·76	50·78	47·46	42·96	38·8	37·2
	17 to	23	51·67	50·19	46·34	40·82	36·0	33·6
	24 to	31	51·52	49·48	45·11	39·35	33·8	31·7

WEEKLY MEANS OF READINGS OF DEEP-SUNK THERMOMETERS—continued.

1854. Period.	Thermometers sunk in the ground.					Thermometer inclosed in the box which covers the scales of the deep-sunk Ther- mometers, and placed on a level with their scales.
	Bulb 24 French Feet deep.	Bulb 12 French Feet deep.	Bulb 6 French Feet deep.	Bulb 3 French Feet deep.	Bulb 1 Inch deep.	
January 1 to 7	51.38	48.61	43.88	37.65	34.2	32.7
8 to 14	51.23	47.97	42.69	37.70	38.1	38.6
15 to 21	51.06	47.22	42.84	39.58	43.5	45.5
22 to 28	50.84	46.72	43.49	40.90	43.4	46.0
29 to February 4	50.65	46.49	43.97	42.46	44.2	45.2
February 5 to 11	50.37	46.34	44.39	42.25	43.7	46.3
12 to 18	50.16	46.26	44.12	40.38	38.8	39.9
19 to 25	49.96	46.11	43.46	39.93	41.6	46.7
26 to March 4	49.77	45.80	43.42	40.64	41.6	49.5
March 5 to 11	49.54	45.62	43.44	41.28	46.0	50.0
12 to 18	49.40	45.48	44.35	44.09	48.4	53.7
19 to 25	49.20	45.51	44.90	43.24	43.2	44.2
26 to April 1	49.04	45.62	44.87	43.46	47.6	54.9
April 2 to 8	48.89	45.68	45.59	46.00	51.4	60.5
9 to 15	48.77	45.83	46.69	47.99	54.3	59.8
16 to 22	48.67	46.23	47.96	49.84	56.6	64.2
23 to 29	48.46	46.65	48.84	49.33	48.6	51.1
30 to May 6	48.46	47.07	48.66	48.67	52.2	56.6
May 7 to 13	48.43	47.33	49.02	49.62	51.8	57.1
14 to 20	48.40	47.59	49.76	51.84	55.8	63.0
21 to 27	48.40	47.92	50.90	53.20	56.2	58.4
28 to June 3	48.40	48.38	51.55	53.23	56.2	60.5
June 4 to 10	48.41	48.81	51.90	53.82	55.9	59.5
11 to 17	48.45	49.22	52.60	54.86	59.3	63.7
18 to 24	48.54	49.68	53.43	56.27	62.6	67.5
25 to July 1	48.61	50.09	54.54	58.67	62.2	63.8
July 2 to 8	48.63	50.68	55.36	58.43	61.8	64.2
9 to 15	48.81	51.24	55.75	58.24	60.4	62.9
16 to 22	48.94	51.73	56.09	59.50	66.0	73.3
23 to 29	49.09	52.18	57.49	63.10	70.1	76.3
30 to August 5	49.21	52.70	58.93	62.85	61.3	63.6
August 6 to 12	49.40	53.40	58.88	60.66	63.9	68.5
13 to 19	49.59	53.86	58.86	61.40	64.7	68.1
20 to 26	49.78	54.17	58.82	61.32	63.8	69.8
27 to September 2	49.97	54.50	59.10	62.70	70.0	77.1
September 3 to 9	50.15	54.76	59.11	62.59	64.5	72.7
10 to 16	50.35	55.09	58.08	61.51	63.8	70.3
17 to 23	50.52	56.31	58.44	61.18	60.4	63.4
24 to 30	50.71	55.46	58.76	58.74	56.8	64.2
October 1 to 7	50.81	55.42	57.75	57.06	57.2	61.7
8 to 14	51.06	55.31	56.97	56.51	54.7	58.6
15 to 21	51.31	55.06	55.98	53.90	50.0	51.7
22 to 28	51.37	54.76	54.69	51.47	48.6	52.0
29 to November 4	51.48	54.34	53.41	50.87	51.8	55.7
November 5 to 11	51.61	53.83	52.71	49.66	45.6	46.2
12 to 18	51.64	53.28	51.36	47.40	44.6	44.3
19 to 25	51.63	52.67	50.28	45.76	40.4	39.2
26 to December 2	51.66	52.09	48.82	43.88	41.1	41.1
December 3 to 9	51.65	51.39	47.96	43.94	44.3	45.0
10 to 16	51.63	50.76	47.31	43.09	44.7	45.3
17 to 23	51.55	50.14	46.97	43.32	41.8	41.4
24 to 31	51.39	49.52	46.49	42.94	40.8	40.3

WEEKLY AND MONTHLY MEANS OF READINGS OF DEEP-SUNK THERMOMETERS

WEEKLY MEANS OF READINGS OF DEEP-SUNK THERMOMETERS—concluded.								
1855. Period.		Thermometers sunk in the ground.					Thermometer inclosed in the box which covers the scales of the Deep-sunk Ther- mometers, and placed on a level with their scales.	
		Bulb 24 French Feet deep.	Bulb 12 French Feet deep.	Bulb 6 French Feet deep.	Bulb 3 French Feet deep.	Bulb 1 Inch deep.		
January	d	d	°	°	°	°	°	
1 to	January	7	51·32	49·18	46·00	42·86	46·4	48·1
8 to		14	51·15	48·71	46·23	43·84	42·5	41·8
15 to		21	50·98	48·49	45·82	41·43	33·9	32·5
22 to		28	50·80	48·16	44·62	39·29	33·5	34·4
29 to	February	4	50·66	47·59	43·60	38·30	33·6	32·0
February								
5 to		11	50·49	47·00	42·77	37·76	34·6	33·1
12 to		18	50·32	46·39	42·17	37·07	31·9	31·8
19 to		25	50·16	45·90	41·52	36·04	31·1	34·6
26 to	March	4	49·96	45·35	40·88	36·39	40·4	44·2
March								
5 to		11	49·74	44·79	41·39	38·77	38·8	41·7
12 to		18	49·54	44·60	41·71	38·60	42·2	45·1
19 to		25	49·23	44·39	42·17	40·48	41·2	43·2
26 to	April	1	49·11	44·34	42·45	39·60	41·0	42·7
April								
2 to		8	48·85	44·39	42·56	40·53	44·2	49·1
9 to		15	48·66	44·32	43·39	43·29	49·0	53·0
16 to		22	48·44	44·42	44·87	46·43	52·1	60·5
23 to		29	48·28	44·76	46·34	47·13	49·5	55·5
30 to	May	6	48·16	45·31	47·10	47·78	49·3	52·9
May								
7 to		13	47·99	45·70	47·57	48·46	51·4	55·8
14 to		20	47·91	46·12	47·99	48·02	50·7	54·7
21 to		27	47·87	46·50	48·84	50·14	58·1	63·7
28 to	June	3	47·80	46·76	49·71	52·41	53·8	52·6
June								
4 to		10	47·82	47·28	50·44	53·02	60·8	66·6
11 to		17	47·83	47·79	51·87	55·90	60·2	62·7
18 to		24	47·84	48·36	52·72	55·04	58·8	64·6
25 to	July	1	47·94	49·11	53·51	57·67	68·1	75·7
July								
2 to		8	48·03	49·63	55·12	60·85	67·4	72·7
9 to		15	48·12	50·38	56·72	61·96	66·8	70·9
16 to		22	48·22	51·24	57·40	61·84	63·1	64·8
23 to		29	48·39	51·90	57·81	61·15	64·6	68·0
30 to	August	5	48·55	52·49	58·10	61·55	66·2	70·1
August								
6 to		12	48·73	52·93	58·92	62·02	65·2	68·0
13 to		19	49·04	53·42	59·00	61·49	65·6	71·5
20 to		26	49·22	53·78	58·93	62·42	66·5	70·6
27 to	September	2	49·42	54·09	58·93	62·46	66·4	71·9
September								
3 to		9	49·61	54·50	59·00	61·22	61·0	64·4
10 to		16	49·83	54·79	58·00	59·78	59·7	63·8
17 to		23	50·06	54·91	57·80	59·53	62·2	67·7
24 to		30	50·28	54·95	58·36	59·28	60·1	64·4
October								
1 to	October	7	50·45	54·96	57·86	58·35	58·6	62·0
8 to		14	50·65	54·91	57·18	56·70	55·5	58·6
15 to		21	50·80	54·82	56·24	54·75	53·2	57·2
22 to		28	50·98	54·66	55·34	54·44	53·1	53·9
29 to	November	4	51·15	54·27	54·02	51·37	47·2	45·9
November								
5 to		11	51·34	53·93	52·62	48·99	48·2	50·9
12 to		18	51·42	53·36	51·84	48·97	44·4	43·8
19 to		25	51·46	52·82	50·80	46·80	42·6	40·8
26 to	December	2	51·49	52·26	49·61	45·33	41·9	42·3
December								
3 to		9	51·48	51·63	48·60	43·98	39·5	39·0
10 to		16	51·42	50·98	47·26	41·38	36·2	35·2
17 to		23	51·33	50·21	46·00	40·63	33·3	30·3
24 to		31	51·25	49·23	44·75	39·07	44·8	48·4

MONTHLY MEANS of READINGS of DEEP-SUNK THERMOMETERS.

MONTH.	Thermometers sunk in the ground.					Thermometer inclosed in the box which covers the scales of the Deep-sunk Ther- mometers, and placed on a level with their scales.
	Bulb 24 French Feet deep.	Bulb 12 French Feet deep.	Bulb 6 French Feet deep.	Bulb 3 French Feet deep.	Bulb 1 Inch deep.	
1848.	°	°	°	°	°	°
January.....	51·47	49·64	45·80	41·28	37·4	36·3
February.....	50·92	47·39	44·26	42·00	44·1	45·8
March.....	50·08	46·57	44·93	43·30	44·6	46·2
April.....	49·39	46·93	47·45	47·72	49·5	52·1
May.....	49·07	48·28	51·09	54·34	61·6	68·0
June.....	49·15	50·90	55·28	58·36	61·7	63·9
July.....	49·68	53·01	57·99	61·21	65·0	68·7
August.....	50·41	54·70	58·87	60·15	60·8	63·0
September.....	51·19	55·28	57·78	58·45	58·8	63·3
October.....	51·81	55·07	55·78	54·75	53·5	55·3
November.....	52·15	53·44	51·07	47·53	45·5	46·7
December.....	52·04	51·19	48·73	45·88	45·5	46·6
1849.	°	°	°	°	°	°
January.....	52·54	49·21	45·88	42·55	41·6	41·9
February.....	50·97	47·89	45·67	43·28	43·6	45·8
March.....	50·15	47·11	45·31	43·59	44·3	46·8
April.....	49·57	46·92	46·09	44·86	46·3	49·1
May.....	49·15	47·46	49·14	51·15	56·5	60·6
June.....	49·01	49·91	54·51	58·36	60·3	68·5
July.....	49·42	52·63	57·67	61·69	65·0	68·8
August.....	50·22	54·51	58·31	61·44	65·2	69·4
September.....	50·97	55·49	58·06	60·11	60·9	65·3
October.....	51·67	55·21	55·75	54·42	50·0	55·8
November.....	52·04	53·73	52·64	49·75	46·5	47·5
December.....	52·03	51·51	48·15	44·08	41·1	40·6
1850.	°	°	°	°	°	°
January.....	51·46	48·80	44·22	39·13	36·7	35·9
February.....	50·83	46·68	43·96	41·87	44·4	47·3
March.....	49·99	46·37	44·79	42·44	41·9	45·0
April.....	49·34	46·16	45·85	46·04	50·4	54·0
May.....	48·87	47·19	48·54	49·50	53·0	56·2
June.....	48·78	49·24	53·61	57·84	64·1	69·7
July.....	49·10	51·96	58·06	60·73	65·2	69·0
August.....	49·81	54·06	58·92	61·26	63·0	67·0
September.....	50·65	54·88	57·60	57·97	58·7	63·4
October.....	51·29	54·38	54·69	52·61	49·5	52·2
November.....	51·63	52·67	51·16	48·85	48·7	49·5
December.....	51·54	50·87	48·08	44·21	42·7	42·5
1851.	°	°	°	°	°	°
January.....	51·16	48·84	46·27	43·62	44·2	45·5
February.....	50·30	47·50	44·70	41·80	42·7	44·3
March.....	49·86	46·35	44·33	42·26	44·0	46·8
April.....	49·18	46·29	46·19	45·84	48·5	51·5
May.....	48·76	47·29	48·86	49·96	54·8	59·1
June.....	48·73	49·24	53·22	56·63	62·2	69·2
July.....	49·67	51·88	57·14	60·73	63·8	67·8
August.....	49·78	54·02	58·87	62·76	65·5	70·6
September.....	50·60	55·32	58·48	59·52	60·0	64·7
October.....	51·36	54·98	56·08	55·32	54·7	57·3
November.....	51·72	53·41	51·35	46·63	41·2	41·6
December.....	51·72	50·55	47·10	43·38	42·2	41·8

MONTHLY MEANS OF READINGS OF DEEP-SUNK THERMOMETERS

MONTHLY MEANS OF READINGS OF DEEP-SUNK THERMOMETERS—concluded.						
MONTH.	Thermometers sunk in the ground.					Thermometer inclosed in the box which covers the scales of the Deep-sunk Thermometers, and placed on a level with their scales.
	Bulb 24 French Feet deep.	Bulb 12 French Feet deep.	Bulb 6 French Feet deep.	Bulb 3 French Feet deep.	Bulb 1 Inch deep.	
1852.						
January	51°16	48°43	45°43	42°17	43°1	44°1
February	50°46	47°21	44°97	42°21	42°0	44°1
March	49°79	46°23	43°98	41°50	43°0	47°3
April	49°16	46°15	46°30	46°33	49°9	55°5
May	48°71	47°34	49°53	51°24	55°1	59°1
June	48°69	49°32	52°73	55°07	59°4	62°4
July	49°04	51°85	56°72	63°70	71°0	77°4
August	49°77	54°90	59°29	63°41	65°2	68°5
September	50°77	56°07	59°16	60°60	61°1	63°3
October	51°68	55°39	55°24	52°84	50°2	52°5
November	52°20	53°48	52°26	50°59	50°4	51°6
December	52°09	51°90	49°98	47°55	48°0	49°0
1853.						
January	51°66	50°40	48°21	45°16	44°3	44°8
February	51°11	48°68	48°21	40°50	37°0	37°1
March	50°46	46°65	43°53	40°35	41°8	43°7
April	49°41	45°99	45°18	44°59	47°4	50°3
May	48°94	46°84	48°45	50°16	55°8	61°4
June	48°78	49°20	53°46	56°20	62°3	66°9
July	49°12	51°97	57°11	60°10	63°2	67°5
August	49°88	53°97	58°86	61°52	64°2	68°7
September	50°73	55°00	58°00	58°49	60°3	62°2
October	51°48	54°57	55°11	53°94	55°1	55°9
November	51°83	53°23	51°78	48°14	44°9	45°6
December	51°70	50°56	46°79	41°92	38°0	36°4
1854.						
January	51°09	47°53	43°30	39°25	40°6	41°7
February	50°21	46°24	43°95	41°15	41°6	44°4
March	49°37	45°59	44°22	42°64	45°3	50°1
April	48°74	46°07	47°13	48°09	52°7	59°4
May	48°42	47°56	49°79	51°08	54°1	58°9
June	48°48	49°31	52°87	55°52	59°8	63°5
July	48°88	51°45	56°22	59°90	64°4	68°8
August	49°57	53°71	58°91	61°63	64°6	69°1
September	50°17	55°11	58°65	61°17	61°6	68°0
October	51°17	55°08	56°12	54°31	52°8	56°7
November	51°61	53°22	51°29	47°48	44°1	43°9
December	51°57	50°61	47°31	43°38	42°9	43°1
1855.						
January	51°02	48°53	45°46	41°48	38°4	38°4
February	50°32	46°44	42°17	36°94	33°4	34°0
March	49°48	44°61	41°79	39°05	41°0	43°7
April	48°53	44°50	44°47	44°64	48°9	54°6
May	47°95	46°06	48°07	49°25	52°8	57°4
June	49°85	48°04	51°98	55°12	61°2	66°3
July	48°21	50°91	56°86	61°43	65°6	69°1
August	49°01	53°40	58°83	62°03	66°0	70°6
September	49°93	54°75	58°31	60°06	60°9	65°2
October	50°77	54°78	56°42	55°66	55°8	57°1
November	51°40	53°26	51°57	47°97	44°3	44°3
December	51°38	50°52	46°72	41°52	38°3	37°8

ROYAL OBSERVATORY, GREENWICH.

REDUCTION

OF

THE OBSERVATIONS

OF THE

DEEP-SUNK THERMOMETERS

AT THE

ROYAL OBSERVATORY, GREENWICH,

FROM 1846 TO 1859.

BY

PROFESSOR J. D. EVERETT,

OF KING'S COLLEGE, WINDSOR, NOVA SCOTIA.

R E D U C T I O N
OF THE
OBSERVATIONS OF THE DEEP-SUNK THERMOMETERS,
AT THE ROYAL OBSERVATORY, GREENWICH,
FROM 1846 TO 1859.

By PROFESSOR J. D. EVERETT, King's College, Windsor, Nova Scotia.

My first operation was to take the means of the readings of each thermometer for each Calendar Month, year by year. For 1846, 7, and for 1856, 7, 8, the means were already given in the *Greenwich Observations*, and in these instances I have simply copied them, not considering it necessary to revise the calculation. The only exceptions to this statement are the means for the 6 ft. and 3 ft. thermometers for March 1858, in which month a number of observations are wanting (the fluid having sunk below the scale); and as the means printed in the *Observations*, being derived only from the recorded readings, were of necessity too high, I adopted in their stead lower values obtained by a rough estimation. I should also state that wherever erroneous readings were pointed out in the *Observations*, I adopted the corrections there suggested; but these corrections were, in all cases, too insignificant to have any appreciable influence on my ultimate results.

The monthly means are given on pages (cci) and (ccii) of the subjoined tabular statement of results; those values which, from the fluid having risen above or fallen below the scale, are doubtful, being enclosed in brackets. These doubtful cases are almost confined to the 6 ft. thermometer. The mean values for the entire year, given in the last column of each page, are simply the arithmetical means of the 12 monthly values; no allowance being made for the unequal lengths of the months.

The observations extend over 13 years and 9 months, commencing with April 1846 and coming down to the end of December 1859. My second operation was to find the mean monthly values for the 13 years which are entire; viz., 1847-1859. They are given on page (cciii), and were derived from the values for each year in the usual manner.

The next operation was to find the co-efficients of the terms in harmonic expressions which should represent the temperature of each thermometer, in terms of the time of year. For an explanation of the process by which they are obtained, I may refer to my Paper in the *Transactions of the Royal Society of Edinburgh*, Vol. xxii, Part II. The process is identical with that described by Sir John Herschel, art. Meteorology, *Encyclopædia Britannica*, pp. 664, 665. I adopt the notation employed in my own Paper, except that I write,

$$t \text{ instead of } 2\pi \frac{t}{T}$$

that is to say, I adopt the convention that time shall be represented by degrees at the rate of 360° to the year. I should also state that the two forms

$$\sqrt{\frac{\pi c}{T k}} \text{ and } \sqrt{\frac{\pi c}{k}}$$

the former of which is used in my paper above referred to, and the latter in Professor Thomson's, which immediately precedes it in the *Transactions*, stand for one and the same function; the latter form (which will be here used) implying the convention that a year is the unit of time. For a full discussion of the units employed, see Professor Thomson's Paper, pp. 424-427.

The values of the coefficients A_1, B_1, A_2, B_2 , were found by the process exhibited on p. 433 of my Paper in the *Transactions*; but in the present instance the work was carried to one and sometimes two more places of decimals. The values of E_1 and P_1 were calculated by the formulæ

$$\begin{aligned}\log \tan E_1 &= \log A_1 - \log B_1 + 10 \\ \log P_1 &= \log B_1 + \log \sec E_1 - 10\end{aligned}$$

the value of E_1 being taken to the nearest 10 seconds. The tabular logarithm of P_1 being thus found, the Napierian logarithm was derived from it by a Table. The value of E_1 in circular measure was obtained by a Table of "Lengths of Circular Arcs to Radius Unity." The logarithms were carried to 5 places of decimals; but the correctness of the 5th decimal place in the values of $\log_e P_1$ and E_1 is not to be depended on.

The next operation was to find the differences in the values of $\log_e P_1$, obtained by comparing the thermometers two and two. The number of thermometers being 4, the number of comparisons is of course 6. The differences in the corresponding values of E_1 (in circular measure) were also found. These latter differences ought to be equal to the former, each to each, if the conditions which theory supposes were exactly fulfilled; and any one of them divided by the corresponding difference of depth should give the value of the thermal coefficient $\sqrt{\frac{\pi c}{k}}$ for the stratum of soil intervening between the two thermometers compared, k being the conductivity, c the capacity for heat (or specific heat), both referred to the unit of volume, and π the ratio of circumference of circle to diameter. If the surface of the soil is uneven, or if buildings or other objects in the immediate neighbourhood prevent uniformity in the distribution of the surface-temperature, the values of the thermal coefficients derived from P_1 cannot be expected to agree exactly with those derived from E_1 . On the other hand, differences in the thermal qualities of the strata of soil intervening between the bulbs of the thermometers would have no tendency to produce discrepancy between the results from P_1 and those from E_1 , provided that each stratum is uniform horizontally; but would merely bring out differences between results for different depths.

In the present instance, the values of $\sqrt{\frac{\pi c}{k}}$ derived from E_1 agree remarkably well among themselves, but differ considerably from the values derived from P_1 , which latter differ also among themselves. On taking the means of the 6 determinations furnished by each element, it appears, however, that the discrepancies nearly counterbalance each other; the mean value of $\sqrt{\frac{\pi c}{k}}$ derived from P_1 (amplitude) being .09158, and that derived from E_1 (epoch) being .09192. The mean of these two numbers is .09175.

The values of the same function found for the three stations at Edinburgh were—

Calton Hill, Trap Rock .....	.1156
Experimental Garden, Sand .....	.1098
Craigleith Quarry, Sandstone .....	.06744

The less the value of this function is, the more sensible will the changes of temperature be at any given depth, and the more rapidly will they be felt.

The values of the half-yearly coefficients P_2 and E_2 were derived from those of A_2 and B_2 by a process similar to that already described for P_1 and E_1 , and the differences of $\log_e P_2$ and also of E_2 , in circular measure, were divided by the corresponding differences of depth. The quotients thus obtained are determinations of the value of $\sqrt{\frac{2\pi c}{k}}$, and have accordingly been divided by $\sqrt{2}$, in order to obtain values of $\sqrt{\frac{\pi c}{k}}$. These latter ought, if the conditions supposed by theory were fulfilled, to agree with those previously obtained from the annual term; and the 6 values derived from P_2 ought to be equal respectively to the corresponding values derived from E_2 . The agreement is much closer in the present instance than in the case of the thermometers at Calton Hill.

Thus far, only the means of the actual readings have been employed; but in order to ascertain the exact temperatures of the bulbs of the thermometers, it is necessary to apply small corrections for temperature of stem. In applying these corrections, I have adopted the method described by Professor (now Principal) Forbes, *Transactions R. S. E.*, Vol. xvi, Part II., except that, instead of correcting each individual reading, I have corrected the monthly means. In correcting for the temperature of that portion of the stem which is exposed to the air, I made use of the Table on page 203 of Professor Forbes' Paper. The mode of obtaining this correction is sufficiently obvious, bearing in mind that alcohol expands, at ordinary temperatures, by .000555 of its volume for each degree Fahrenheit. The correction for the temperature of the underground portion of the stem is based upon an approximate formula for the mean temperature of the stem, which, though not pretending to great accuracy, is sufficient for the purpose required. In order to apply this

correction, it is of course necessary to know the ratio of the quantity of fluid in the underground portion of the stem to the quantity in the bulb ; or, what amounts to the same thing, the number of degrees of the scale that are equivalent to the quantity of fluid in the underground portion of the stem. Respecting this datum I have not been able to obtain direct information ; and the analogy of the Edinburgh thermometers does not afford very definite grounds for estimation ; for by the Table, p. 198, of Professor Forbes' Paper, it appears that the thermometers at three stations, "Observatory," "Experimental Garden," and "Craighleith," differ considerably, as regards the element in question. I have assumed that the values of "Observatory" are applicable to the Greenwich thermometers ; that is to say, that the quantities of fluid in the underground portions of the stems are equivalent respectively to,

13²·7 for the 24 ft. thermometer.

4°·5 , , 12 , ,
4°·8 , , 6 , ,

I have also applied corrections for the inequality of the Calendar Months. It would scarcely be practicable to do this completely, and I have therefore contented myself with making January, February, and March, of equal length, each containing 30 days, except in leap year, when I give February 31 days. The mode of effecting this correction was, to find, from the *Observations*, the mean temperature of January 31st, also of March 1st, and hence to calculate what the mean temperature would have been for each of the three months, if these two days had been reckoned as belonging to February.

The results obtained by applying the sum of the three several corrections just described, are given in p. (ccv), under the designation of "Corrected Means for the Period 1847-59." Making these corrected means the basis of calculation, I have repeated the operations already described for finding the value of $\sqrt{\frac{\pi c}{k}}$. The results from the half-yearly term are improved by the application of the corrections ; but in the case of the annual term (which is far more important) the discrepancies are increased.

I may remark that I have tried the effect of omitting the second of the above-mentioned corrections and applying the other two ; also the effect of applying the first only, and the first two only. These experiments were confined to the annual term, and the results were in each case more discrepant than those obtained from the uncorrected temperatures. I have therefore thought it unnecessary to give them.

With the view of ascertaining whether the values of the coefficients have continued uniform throughout the whole period of observation, I have divided it into three shorter periods ; the first containing 4 years and 9 months, the second 5 years, and the third 4 years. The monthly means for each of these periods (uncorrected) are given on p. (ccvi), together with the values of A_0 , P_1 , $\log_e P_1$ and E_1 , derived from them, and on p. (ccvii), the resulting values of $\sqrt{\frac{\pi c}{k}}$ are shown.

On inspecting these last results, it will be observed that the values diminish from each period to the next ; and also that the agreement between results from amplitude and those from epoch improves. Both these facts are very singular ; and I can offer no satisfactory explanation of them. The *primâ facie* inference is, that some change has taken place in the soil, probably as regards moisture. Drainage, building, planting, or clearing may be suggested as possible causes.

The diminution of $\sqrt{\frac{\pi c}{k}}$ indicates either a decrease in capacity for heat, or an increase in conductivity.

Another singular fact appears on inspecting the values of A_0 (mean temperature of the year) given on p. (ccvi), viz., that the mean temperature at 6 ft. has, in each of the three periods, been greater than at any other depth. I do not think this circumstance can be due to errors in the estimated readings of the 6 ft. thermometer. On the contrary, these readings appear to have been rather under-estimated ; for it will be observed, that in deriving values of $\sqrt{\frac{\pi c}{k}}$ from comparison of the values of the $\log_e P_1$ for every pair of thermometers, the least values have been obtained from comparison of those at 12 ft. and 6 ft., and the greatest from those at 6 ft. and 3 ft. ; whereas no such difference is observable in the values derived from E_1 . Hence it appears that the value which we have given to P_1 for the 6 ft. thermometer is too small ; and therefore the range (which is approximately double of P_1) is too small ; and since the estimated readings have been taken at the time of maximum temperature, the inference is that they also are too small.

As matter of curiosity rather than use, I have given, on p. (ccvii) the values of the coefficients, and the resulting values of $\sqrt{\frac{\pi c}{k}}$, for the terms whose periods are respectively one-third and one-fourth of a year. These terms are of the form

$$P_3 \cdot \sin(3t + E_3) + P_4 \cdot \sin(4t + E_4)$$

and are to be appended to the annual and half-yearly terms whose coefficients have already been found. The values for these two additional terms have been derived from the "Corrected Means," by a process analogous to that which was used for the two preceding terms.

On p. (ccviii) are given the "Corrections necessary to reduce Calculated to Actual Temperatures;" that is to say, the differences between the observed monthly temperatures and the values of v furnished by each of the expressions

$$v = A_0 + P_1 \cdot \sin(t + E_1)$$

$$v = A_0 + P_1 \cdot \sin(t + E_1) + P_2 \cdot \sin(2t + E_2)$$

the sign + being used to denote excess of observed above calculated temperature. In the construction of this Table the "Corrected Means" and "Corrected Values of Coefficients," p. (ccv), have been employed. In the first set of corrections the occurrence of double maxima and minima in the year is very marked. The corrections here given in no way affect the accuracy of the results previously deduced, since each term in the series for v is independent of the rest.

The relation between results derived (as ours have been) from monthly means, and those which would be furnished by daily means, is as follows:—

Let the monthly mean temperature be represented by the expression—

$$A_0 + P_1 \cdot \sin(t + E_1) + P_2 \cdot \sin(2t + E_2)$$

(t being the time for the centre of the month),

then the daily, or more strictly, the instantaneous temperature will be

$$A_0 + P_1 \frac{\text{arc } 15^\circ}{\sin 15^\circ} \sin(t + E_1) + P_2 \frac{\text{arc } 30^\circ}{\sin 30^\circ} \sin(2t + E_2).$$

Hence the only alteration necessary for rendering our results applicable to daily mean temperatures, is to multiply the values found for P_1 and P_2 by the under-mentioned factors:—

P_1	must be multiplied by	$\frac{\text{arc } 15^\circ}{\sin 15^\circ}$	that is by	1.0115
P_2	,,	,,	$\frac{\text{arc } 30^\circ}{\sin 30^\circ}$	,, 1.0472

Similarly—

P_3	,,	,,	$\frac{\text{arc } 45^\circ}{\sin 45^\circ}$	,, 1.1107
P_4	,,	,,	$\frac{\text{arc } 60^\circ}{\sin 60^\circ}$	,, 1.2092

Since these factors are the same for all the thermometers, the difference of $\log_e P_1$, obtained by comparing any two thermometers, will remain unchanged. Hence the mode, in which we have derived $\sqrt{\frac{\pi c}{k}}$ from the values of $\log_e P_1$, requires no correction; and the same remark applies to $\log_e P_2$, $\log_e P_3$, $\log_e P_4$. It is evident that the values of E_1 , E_2 , E_3 , E_4 require no correction.

It appears from the foregoing investigation, that the value of $\sqrt{\frac{\pi c}{k}}$ for the soil in which the Greenwich thermometers are sunk is about .092.

If it be required to find approximately the effect, at any given depth, of the daily range of temperature at the surface, we may proceed as follows:—Assume the daily variation at the surface to follow a simple harmonic law, which is the same for every day in the year: employing the same units as we have hitherto used, the term expressing daily variation will be of the form

$$P \cdot \sin(365t + E)$$

and the diminution of $\log_e P$ for each foot of depth will be,

$$\sqrt{\frac{365 \pi c}{k}} = \sqrt{365} \times .092 = 1.758,$$

which is the Napierian logarithm of 5.80. Hence the amplitude P diminishes in the ratio of 1:5.8 for each foot of depth; and the daily range at the depth of 3 feet will be only $\left(\frac{1}{5.8}\right)^3$, or about $\frac{1}{198}$ th of that at the surface.

The corresponding retardation of phase for each foot of descent will be 1.758 in circular measure, which is equivalent to about 102 days; and the retardation for three feet will be 306 days.

It is quite obvious then that the daily range at the surface is altogether inappreciable at 3 feet, and *à fortiori* at greater depths. Hence the daily variation in the readings of the deep-sunk thermometers, as recorded in the *Observations* for 1846-7, must be owing to changes of temperature in their stems. As an approximate verification of this assertion, we will take two instances from the *Observations* for 1847; and to obviate the necessity of applying the correction mentioned in *Introduction to Greenwich Meteorological Observations*, page lxxi, we shall, in each instance, select the month in which the maximum occurs.

In September of that year the highest and lowest mean readings at even hours of Göttingen time, were—

For Thermometer in Air (Table xxxii),

Highest..... 62·3 at 4^h
 Lowest 48·8 ,, 18^h

Showing a difference of..... 13·5

For 12 ft. Thermometer (Table xxiv),

Highest..... 55·16 at 2^h
 Lowest 55·06 ,, 16^h and 18^h

Showing a difference of..... ·10

The mean reading of the 12 ft. thermometer for the month was 55·11; and as the lowest degree on its scale is 42°0, the mean length of the column exposed to air was 13·11. Since the expansion of alcohol for 1° Fahrenheit is ·000555, we have

$$13·11 \times 13·5 \times ·000555 = ·098$$

for the daily range due to the temperature of the portion of stem exposed to air; which agrees with the difference ·10, shown by the observations.

Again, in August of the same year, we have—

For Thermometer in Air,

Highest..... 72·6 at 4^h
 Lowest 56·2 ,, 18^h

Difference..... 16·4

For 3 ft. Thermometer,

Highest..... 62·50 at 4^h
 Lowest 62·22 ,, 18

Difference..... ·28

Length of column exposed to air 62·34 — 34·2 = 28·14, and 28·14 × 16·4 × ·000555 = ·26, which nearly agrees with the difference ·28 found above.

The values of P_1, P_2, E_1, E_2 , for any depth other than 3, 6, 12, or 24 feet, may be found by taking the values of these coefficients for the nearest of the 4 thermometers, and using the equations

$$\text{Difference of log. } P_1 = \text{difference of } E_1 = ·092 \times \text{difference of depth.}$$

$$\text{Difference of log. } P_2 = \text{difference of } E_2 = ·092 \times \sqrt{2} \times \text{difference of depth.}$$

The mean temperature of a horizontal stratum of given thickness may be derived from the expression for the temperature of its centre, by the following rule. Let the product of ·092 or $\sqrt{\frac{\pi c}{k}}$ by half the thickness of the stratum be denoted by z , and let the values of P_1, P_2, E_1, E_2 , for the centre of the stratum be given; then

$$P_1 \text{ must be multiplied by } 1 + \frac{1}{45} z^4 - \frac{1}{5670} z^8 \text{ nearly.}$$

$$P_2 \text{ ,, ,, } 1 + \frac{4}{45} z^4 - \frac{16}{5670} z^8 \text{ ,,}$$

$$E_1 \text{ must be increased by } \tan^{-1} \left(\frac{1}{3} z + \frac{1}{105} z^6 \right) \text{ ,,}$$

$$E_2 \text{ ,, ,, } \tan^{-1} \left(\frac{2}{3} z^2 + \frac{8}{105} z^6 \right) \text{ ,,}$$

When the stratum is 1 French foot in thickness, it will be found that the multiplier for P_1 is 1.0000001, and the correction for E_1 is 2'. 25". Hence we may form some idea of the corrections due to the lengths of the bulbs (10 or 12 inches). It is obvious that these corrections will be very small; and they will be the same for all the thermometers, except in so far as the bulbs differ in length.

The Tables on the latter half of p. (ccviii) have been derived from graphical projection in the following manner:— The monthly means of each thermometer p. (cciii) were made the ordinates of a curve at 12 equidistant points in the line of abscissæ, the curve itself being carefully drawn by hand through the 12 points thus determined. The two points at which the curve intersected the line of mean annual temperature were marked, and are entered in the first Table under the names (derived from an obvious analogy) of vernal and autumnal means. The days midway between these were taken as the centres of warm and cold halves of the year; this part of the calculation being checked by comparison with the values of E_1 (p. (cciii)), which in no case differed by more than a day from the values found graphically. The "highest" and "lowest" temperatures, in the last Table on the same page, were determined graphically, and the numbers in the remaining columns (except "Mean of Year") were derived from them. It will be observed that in every instance the temperature rises higher above the mean than it falls below; but the number of days below the mean is greater than the number above.

I have inadvertently omitted above to call attention to the decrease of temperature, with increase of depth, which the thermometers exhibit. This is especially evident from the values of A_0 , p. (ccvi), which show that in each of the periods the temperature has been higher at 3 than at 12 feet, and higher at 12 than at 24 feet. As, however, the mean temperature of Greenwich ($49^{\circ} \cdot 27$, I believe,) is less than the lowest of these, it may be that the years which our observations cover have been exceptionally warm.

J. D. EVERETT.

NOTE BY THE ASTRONOMER ROYAL.

From the establishment of the thermometers to the middle of the year 1857, the excess of fluid in the 6-foot and 3-foot thermometers was such that, when the temperature shown by the 6-foot thermometer rose above $57^{\circ} \cdot 5$, or that of the 3-foot thermometer rose above $64^{\circ} \cdot 5$, a portion of the fluid passed into the upper bulb.

On 1857, June 22, Mr. Negretti removed from each of these thermometers a quantity of fluid, corresponding to the extent of 5° on its scale; and the scales of the two thermometers were lowered by that quantity, making the readings the same as before.

It appears now that the amount of fluid removed was a little too great. When the temperature of the 6-foot thermometer falls below $43^{\circ} \cdot 5$, or that of the 3-foot thermometer below $39^{\circ} \cdot 7$, the fluid sinks into the capillary tube.

It appears probable that the observations of the thermometers in their present state will ultimately give material assistance for the completion of the defective higher readings in their former state, and that the readings of the thermometers in their former state enable us to supply the lower readings which are wanting in their present state.

I am unable to suggest any conjectural explanation of the change of mean annual temperature and of law of annual temperature pointed out in page (cxcvii), line 31.

G. B. AIRY.

TABULAR STATEMENT OF RESULTS.

MEAN READINGS OF THERMOMETER 24 French feet deep.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
1846	°	°	°	48°95	48°78	48°86	49°39	50°30	51°24	52°19	52°60	52°53	°
1847	52°05	51°18	50°19	49°34	48°83	48°69	49°09	49°81	50°64	51°34	51°72	51°79	50°39
1848	51°47	50°92	50°08	49°39	49°07	49°15	49°68	50°41	51°19	51°81	52°16	52°04	50°61
1849	51°54	50°89	50°15	49°57	49°14	49°01	49°42	50°22	50°97	51°67	52°04	52°03	50°55
1850	51°57	50°83	49°99	49°32	48°87	48°79	49°10	49°81	50°65	51°29	51°63	51°54	50°28
1851	51°16	50°55	49°86	49°18	48°76	48°74	49°07	49°78	50°60	51°34	51°72	51°71	50°21
1852	51°16	50°46	49°79	49°15	48°71	48°69	49°04	49°77	50°77	51°68	52°20	52°09	50°29
1853	51°66	51°11	50°46	49°62	48°94	48°78	49°12	49°88	50°73	51°48	51°83	51°70	50°44
1854	51°69	50°22	49°38	48°74	48°42	48°49	48°88	49°57	50°40	51°16	51°61	51°57	49°96
1855	51°02	50°32	49°48	48°53	47°95	47°85	48°21	49°01	49°93	50°77	51°40	51°38	49°65
1856	50°75	49°93	49°13	48°53	48°10	48°08	48°53	49°32	50°32	51°15	51°58	51°60	49°75
1857	51°05	50°26	49°37	48°65	48°24	48°23	48°72	49°64	50°68	51°69	52°29	52°34	50°10
1858	51°97	51°36	50°50	49°54	48°92	48°85	49°30	50°22	51°12	51°91	52°27	52°23	50°68
1859	51°71	51°02	50°29	49°71	49°43	49°41	49°82	50°71	51°70	52°51	(52°94)	52°76	51°00

MEAN READINGS OF THERMOMETER 12 French feet deep.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
1846	°	°	°	47°17	48°06	50°49	53°68	55°55	56°57	56°55	54°71	52°21	°
1847	48°98	46°73	45°78	45°81	46°81	49°50	51°92	54°22	55°11	54°58	53°61	51°82	50°41
1848	49°64	47°39	46°57	46°92	48°28	50°90	53°01	54°70	55°28	55°07	53°43	51°19	51°03
1849	49°20	47°89	47°11	46°92	47°46	49°92	52°63	54°51	55°50	55°20	53°73	51°52	50°97
1850	48°80	46°68	46°37	46°17	47°19	49°26	51°96	54°06	54°88	54°38	52°67	50°87	50°27
1851	48°84	47°50	46°35	46°29	47°29	49°24	51°88	54°02	55°30	54°98	53°46	50°55	50°47
1852	48°43	47°21	46°23	46°15	47°34	49°32	51°85	54°90	56°07	55°39	53°48	51°90	50°69
1853	50°40	48°68	46°65	45°99	46°85	49°20	51°97	53°97	55°00	54°57	53°23	50°56	50°59
1854	47°56	46°22	45°59	46°07	47°56	49°31	51°45	53°71	55°11	55°08	53°22	50°61	50°12
1855	48°53	46°44	44°61	44°50	46°06	48°04	50°91	53°40	54°75	54°78	53°26	50°63	49°66
1856	47°69	46°39	45°87	45°76	46°89	48°87	51°64	54°12	55°33	54°89	53°49	50°87	50°15
1857	48°50	46°49	45°62	45°82	46°84	49°46	52°58	55°08	56°44	56°26	54°88	52°80	50°90
1858	50°62	48°22	46°16	46°00	47°41	49°91	53°29	55°22	56°21	56°03	54°24	51°35	51°22
1859	49°27	47°87	47°43	47°67	48°43	50°67	53°69	56°35	(57°07)	56°51	54°66	51°48	51°76

MEAN READINGS OF THERMOMETER 6 French feet deep.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
1846	°	°	°	47°46	49°94	(55°87)	(58°25)	(58°99)	(59°23)	(56°99)	52°79	47°97	°
1847	43°98	42°85	43°27	45°12	48°64	53°94	(57°08)	(58°91)	(57°83)	55°36	52°76	49°48	50°77
1848	45°80	44°26	44°93	47°45	51°09	55°28	(57°99)	(58°87)	(57°78)	55°78	51°07	48°73	51°59
1849	45°99	45°67	45°56	46°09	49°14	54°50	(57°67)	(58°31)	(58°06)	55°75	52°64	48°15	51°46
1850	44°22	43°96	44°79	45°85	48°54	53°61	(57°06)	(58°92)	(57°59)	54°69	51°16	48°08	50°71
1851	46°27	44°79	44°33	46°19	48°86	53°22	57°14	(58°87)	(58°48)	56°08	51°35	47°10	51°06
1852	45°43	44°97	43°98	46°30	49°53	52°73	(57°72)	(59°29)	(59°17)	55°24	52°26	49°98	51°38
1853	48°21	45°21	43°53	45°18	48°45	53°46	(57°11)	(58°86)	(58°00)	55°11	51°78	46°79	50°97
1854	43°30	43°95	44°22	47°13	49°80	52°91	56°22	(58°91)	(58°59)	56°12	51°29	47°31	50°81
1855	45°46	42°17	41°79	44°47	48°07	51°98	56°86	(58°83)	(58°31)	56°42	51°57	46°84	50°23
1856	44°38	44°22	44°42	46°12	48°60	53°29	57°05	(58°84)	(58°61)	56°09	51°88	47°79	50°94
1857	45°08	43°15	44°14	46°14	49°00	54°82	58°95	61°27	60°94	57°86	54°42	50°76	52°21
1858	47°47	44°46	(43°00)	46°22	49°76	55°88	59°32	60°69	60°03	57°65	52°24	48°38	52°09
1859	46°39	45°91	46°86	48°06	50°42	55°82	60°43	(62°38)	60°25	58°04	52°17	47°49	52°85

REDUCTION OF OBSERVATIONS OF DEEP-SUNK THERMOMETERS

MEAN READINGS OF THERMOMETER 3 French feet deep.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
1846	°	°	°	47°66	52°15	61°72	62°95	63°61	62°45	55°44	50°22	42°71	°
1847	39°35	39°65	41°17	44°46	51°17	57°24	61°56	62°34	57°82	54°73	50°63	46°46	50°55
1848	41°28	42°00	43°30	47°72	54°34	58°36	61°21	60°15	58°45	54°75	47°53	45°88	51°25
1849	42°55	43°28	43°56	44°86	51°15	58°36	61°69	61°44	60°11	54°42	49°75	44°08	51°27
1850	39°13	41°87	42°36	46°04	49°50	57°84	60°65	61°26	57°97	52°98	48°85	44°21	50°22
1851	43°62	41°80	42°26	45°84	49°97	56°63	60°73	62°76	59°52	55°32	46°63	43°39	50°71
1852	42°17	42°21	41°49	46°33	51°24	55°07	(63°70)	(63°41)	60°60	52°84	50°59	47°55	51°43
1853	45°16	40°50	40°35	44°57	50°16	56°59	60°10	61°51	58°49	53°94	48°14	41°92	50°12
1854	39°25	41°15	42°61	48°09	51°08	55°52	59°90	61°63	61°17	54°51	47°48	43°38	50°48
1855	41°48	36°94	39°05	44°64	49°25	55°12	61°43	62°03	60°05	55°66	47°97	41°52	49°60
1856	41°39	41°66	42°22	46°26	49°57	56°85	61°01	(63°90)	59°32	55°37	48°24	44°13	50°83
1857	41°33	40°22	42°67	46°23	51°19	59°16	62°82	64°76	61°76	56°45	51°46	47°21	52°11
1858	42°23	39°84	(40°00)	46°29	51°03	61°65	62°73	63°82	61°28	56°52	47°37	44°57	51°46
1859	42°76	43°53	45°69	47°22	51°89	60°07	65°72	65°32	60°28	56°80	47°74	42°24	52°44

MEAN READINGS OF THERMOMETER 1 inch deep.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
1846	°	°	°	°	°	64°2	64°8	64°7	62°2	52°2	47°7	36°2	°
1847	37°9	38°0	42°3	46°4	56°7	59°8	66°8	63°9	56°0	53°7	48°4	44°0	51°16
1848	37°4	44°1	44°6	49°5	61°6	61°7	65°0	60°8	58°8	53°5	45°5	45°5	52°33
1849	41°5	43°6	44°3	46°3	56°5	63°3	65°0	65°2	61°8	53°0	46°5	41°1	52°34
1850	36°7	44°4	41°9	50°4	53°0	64°1	65°2	63°0	58°7	49°5	48°7	42°7	51°52
1851	44°2	42°7	44°0	48°5	54°8	62°2	63°8	65°5	60°0	54°7	41°2	42°2	51°98
1852	42°8	42°0	43°0	49°9	55°1	59°4	71°0	65°2	61°1	50°2	50°4	48°0	53°18
1853	44°3	37°0	41°8	47°4	55°7	62°3	63°2	64°1	60°3	55°1	44°9	38°0	51°18
1854	40°6	41°6	45°3	52°7	54°2	59°8	64°4	64°6	61°6	52°9	44°1	42°9	52°06
1855	38°4	33°4	41°0	48°9	52°9	61°3	65°6	66°0	60°9	54°7	44°3	38°3	50°48
1856	41°5	43°3	41°7	50°4	52°6	63°0	64°8	66°7	59°0	54°5	43°9	41°9	51°94
1857	38°9	40°7	43°7	48°3	57°6	65°6	67°0	67°9	62°5	55°2	48°8	46°6	53°57
1858	39°6	37°8	42°2	49°6	54°3	68°6	64°5	66°0	62°7	54°2	42°2	42°4	52°01
1859	42°4	43°5	47°3	49°3	55°8	64°4	70°7	66°7	59°7	54°4	44°3	39°3	53°15

MEAN READINGS OF THERMOMETER in Air.

Year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
1846	°	°	°	°	°	°	65°4	64°4	61°4	50°9	46°5	33°4	°
1847	36°4	36°4	42°0	46°0	57°4	59°2	66°9	63°4	55°0	53°2	47°3	42°9	50°51
1848	36°3	45°8	46°2	52°1	68°0	63°9	68°7	63°0	63°3	55°3	46°7	46°5	54°65
1849	41°9	45°8	46°8	49°1	60°6	68°5	68°8	69°4	65°3	55°8	47°5	40°6	55°01
1850	35°9	47°3	45°0	54°0	56°3	69°7	68°7	67°0	63°4	52°2	49°5	42°5	54°29
1851	45°5	44°3	46°8	51°5	59°1	68°2	67°8	70°6	64°7	57°3	41°6	41°7	54°92
1852	44°1	44°2	47°3	55°5	59°1	62°4	77°4	68°5	63°3	52°5	51°6	49°0	56°24
1853	44°8	37°2	43°7	50°3	61°4	66°9	67°5	68°7	62°2	55°9	45°6	36°4	53°38
1854	41°7	44°4	50°1	59°4	58°9	63°5	68°8	69°1	68°0	56°7	43°9	43°1	55°63
1855	38°4	34°0	43°7	54°6	56°3	66°3	69°1	70°6	65°2	57°1	44°3	37°8	53°12
1856	41°8	45°1	43°1	55°3	55°5	68°3	69°0	71°4	63°3	57°2	43°7	42°3	54°67
1857	38°6	44°6	47°3	51°3	63°7	72°6	73°3	73°5	66°7	58°4	49°1	48°0	57°26
1858	41°0	39°4	46°6	55°6	60°0	76°4	68°3	73°5	67°6	56°9	43°0	42°7	55°92
1859	43°9	47°2	51°0	53°9	62°4	70°3	77°6	74°2	63°9	56°5	46°5	39°8	57°27

MEAN READINGS for the PERIOD 1847-1859 (13 Years).

Thermo- meter.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
24 ft.	51°40	50°70	49°90	49°17	48°72	48°67	49°08	49°86	50°75	51°52	51°95	51°91	50°30
12 ft.	48°96	47°21	46°18	46°16	47°26	49°51	52°21	54°48	55°54	55°21	53°64	51°24	50°63
6 ft.	45°54	44°27	44°22	46°18	49°22	53°96	57°74	59°46	58°74	56°17	52°05	48°22	51°31
3 ft.	41°67	41°13	42°06	46°04	50°89	57°57	61°79	62°64	59°76	54°95	48°64	44°35	50°96
Inch..	40°48	40°93	43°32	49°05	55°45	62°73	65°92	65°05	60°24	53°51	45°63	42°53	52°07
Air ..	40°78	42°75	46°12	52°97	59°90	67°40	70°15	69°45	63°99	55°77	46°18	42°56	54°84

VALUES of the COEFFICIENTS in the EXPRESSIONS—

$$v = A_0 + A_1 \cdot \cos t + B_1 \cdot \sin t + A_2 \cdot \cos 2t + B_2 \cdot \cos 2t. \quad (1)$$

$$v = A_0 + P_1 \cdot \sin(t + E_1) + P_2 \cdot \sin(2t + E_2). \quad (2)$$

Thermometer.	A ₀	A ₁	B ₁	A ₂	B ₂	P ₁	E ₁	P ₂	E ₂
24 ft.....	50°30	+ 1°1738	- 1°1805	- 0°05	- 0°0058	1°6647	135. 10	0°0503	263. 25
12 ft.....	50°63	- 1°5897	- 4°5302	- 0°0483	+ 0°254	4°8010	199. 20	0°259	349. 14
6 ft.....	51°31	- 6°0285	- 4°9568	+ 0°295	+ 0°468	7°8047	230. 34	0°553	392. 15
3 ft.....	50°96	- 10°029	- 4°4058	+ 0°773	+ 0°598	10°954	246. 17	0°977	412. 18
Inch.....	52°07	- 12°865	- 2°095			13°033	260. 45		
Air.....	54°84	- 14°966	- 1°221			15°013	265. 20		

NAPIERIAN LOGARITHMS of P₁ and P₂, and VALUES of E₁ and E₂ in circular measure ($\frac{\text{arc}}{\text{radius}}$).

Thermometer.	log _e P ₁	E ₁	log _e P ₂	E ₂
24 ft.....	0°50966	2°35905	- 2°989	4°597
12 ft.....	1°56883	3°47907	- 1°353	6°095
6 ft.....	2°05473	4°02424	- 0°593	6°846
3 ft.....	2°30369	4°20846	- 0°023	7°196
Inch.....	2°56750	4°55094		
Air.....	2°70890	4°63099		

Taking the differences of the values of log_e P₁ for each pair of thermometers, also the differences of the values of E₁, and dividing in each case by the difference of depth, we obtain the following quotients, which are determinations of the value of $\sqrt{\frac{\pi c}{k}}$, c being the capacity for heat, and k the conductivity.

Thermometers compared.	Difference of log _e P ₁ divided by Difference of depth.	Difference of E ₁ divided by Difference of depth.
24 ft. and 12 ft.	°0883	°0933
24 ,, 6 ,,	°0858	°0925
24 ,, 3 ,,	°0897	°0924
12 ,, 6 ,,	°0810	°0909
12 ,, 3 ,,	°0917	°0910
6 ,, 3 ,,	°1130	°0914
Means	°09158	°09192

To obtain determinations of the value of $\sqrt{\frac{\pi c}{k}}$ from the values of $\log_e A_2$ and E_2 , we must first proceed as above, and divide the results by $\sqrt{2}$, as shown below :—

Thermometers compared.	Diff. of $\log_e P_2$ divided by Diff. of depth.	Quotients by $\sqrt{2}$.	Diff. of E_2 divided by Diff. of depth.	Quotients by $\sqrt{2}$.
24 ft. and 12 ft.	·1364	·0964	·1248	·0882
24 ,, 6 ,,	·1331	·0941	·1249	·0883
24 ,, 3 ,,	·1412	·0998	·1237	·0875
12 ,, 6 ,,	·1267	·0896	·1251	·0885
12 ,, 3 ,,	·1477	·1044	·1223	·0865
6 ,, 3 ,,	·1899	·1343	·1166	·0824
Means .....	....	·1031	....	·0869

The mean of ·09158 and ·09192 is ·09175,
 The mean of ·1031 and ·0869 is ·0950,
 and the former of these means is entitled to much more weight than the latter, the coefficients of the half-yearly term being too small, and too variable from year to year, to furnish accurate determinations.

CORRECTIONS for TEMPERATURE of that portion of STEM which is above the bottom of the scale, or above the capillary tube.

Argument, $(v - V) \times (v - v') \times \cdot 000555$; v being the temperature of bulb, or the actual reading; V the temperature of air; and v' the degree of the bottom of the scale. The values of v' are—

For the 24 ft. thermometer, 43°
 ,, 12 ,, ,, 42°

For the 6 ft. thermometer, 39°
 ,, 3 ,, ,, 34°

Thermometers.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
24 ft.	+ ·05	+ ·03	+ ·01	— ·01	— ·04	— ·06	— ·07	— ·07	— ·06	— ·02	+ ·03	+ ·05
12 ,,	+ ·03	+ ·01	·00	— ·02	— ·04	— ·08	— ·11	— ·10	— ·06	·00	+ ·05	+ ·05
6 ,,	+ ·02	·00	— ·01	— ·03	— ·06	— ·11	— ·13	— ·11	— ·06	·00	+ ·04	+ ·03
3 ,,	·00	·00	— ·02	— ·04	— ·09	— ·12	— ·13	— ·10	— ·06	— ·01	+ ·02	+ ·01

The sign + denotes that the correction is to be added to the observed reading.
 [In strictness, these numbers do not apply after 1857, June.—G. B. A.]

ASSUMED CORRECTIONS for TEMPERATURE of that portion of STEM (capillary tube) which is below ground.

Thermometers.	January.	February.	March.	April.	May	June.	July.	August.	September.	October.	November.	December.
24 ft.	+ ·03	+ ·04	+ ·03	+ ·02	·00	— ·02	— ·04	— ·05	— ·04	— ·02	·00	— ·02
12 ,,	+ ·02	+ ·02	+ ·01	·00	— ·01	— ·03	— ·04	— ·03	— ·02	·00	+ ·01	+ ·02
6 ,,	+ ·01	+ ·01	+ ·01	·00	— ·01	— ·01	— ·01	— ·01	·00	·00	+ ·01	+ ·01
3 ,,	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00

CORRECTIONS for INEQUALITY of CALENDAR MONTHS, obtained by reckoning the 31st of January and the 1st of March as part of February.

Thermometers.	January.	February.	March.
24 ft.	+ ·01	·00	+ ·01
12 ,,	+ ·04	·00	— ·02
6 ,,	+ ·03	·00	+ ·01
3 ,,	+ ·02	·00	+ ·04

CORRECTED MEANS for the PERIOD 1847-1859.

Thermometers.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Yearly Means.
24 ft.	51°49	50°77	49°95	49°18	48°68	48°59	48°97	49°74	50°65	51°48	51°98	51°94	50°28
12 ,,	49°05	47°24	46°17	46°14	47°21	49°40	52°06	54°35	55°46	55°21	53°70	51°31	50°61
6 ,,	45°60	44°28	44°23	46°15	49°15	53°84	57°60	59°34	58°68	56°17	52°10	48°26	51°28
3 ,,	41°69	41°13	42°08	46°00	50°80	57°45	61°66	62°54	59°70	54°94	48°66	44°36	50°92

CORRECTED VALUES of COEFFICIENTS.

Thermometers.	A ₀ .	A ₁ .	B ₁ .	A ₂ .	B ₂ .	P ₁ .	E ₁ .	P ₂ .	E ₂ .
	0	0	0	0	0	0	0 /	0	0 /
24 feet...	50°28	+1°2688	-1°1540	-0°0517	-0°01154	1°7151	132. 17	0°0530	257. 25
12 ,,	50°61	-1°4856	-4°5410	-0°060	+0°231	4°7778	198. 7	0°239	345. 26
6 ,,	51°28	-5°9375	-4°9715	+0°277	+0°459	7°7443	230. 4	0°536	391. 7
3 ,,	50°92	-9°9547	-4°4176	+0°755	+0°603	10°891	246. 4	0°966	411. 23

CORRECTED VALUES of log_e P₁, log_e P₂, and of E₁ and E₂, in CIRCULAR MEASURE.

Thermometers.	Log _e P ₁ .	E ₁ .	Log _e P ₂ .	E ₂ .
24 feet.....	·53947	2·30885	- 2°9381	4·4928
12 ,,	1°56398	3°45779	- 1°4327	6°0289
6 ,,	2°04694	4°01531	- ·6235	6°8263
3 ,,	2°38794	4°29472	- ·0343	7°1800

Thermometers compared.	Diff. of log _e P ₁ divided by Diff. of Depth.	Diff. of E ₁ divided by Diff. of Depth.	The mean of ·09048 and ·09402 is ·09225.
24 feet and 12 feet	·0854	·0957	
24 ,, 6 ,,	·0838	·0948	
24 ,, 3 ,,	·0880	·0946	
12 ,, 6 ,,	·0805	·0929	
12 ,, 3 ,,	·0915	·0930	
6 ,, 3 ,,	·1137	·0931	
Means	·09048	·09402	

Thermometers compared.	Diff. of log _e P ₂ divided by Diff. of Depth.	Quotients by √ 2.	Diff. of E ₂ divided by Diff. of Depth.	Quotients by √ 2.	The mean of ·1036 and ·0901 is ·09685.
24 feet and 12 feet	·1254	·0887	·1280	·0905	
24 ,, 6 ,,	·1286	·0909	·1297	·0917	
24 ,, 3 ,,	·1383	·0978	·1280	·0905	
12 ,, 6 ,,	·1349	·0954	·1329	·0940	
12 ,, 3 ,,	·1554	·1099	·1279	·0904	
6 ,, 3 ,,	·1964	·1389	·1179	·0834	
Means .....	....	·1036	....	·0901

REDUCTION OF OBSERVATIONS OF DEEP-SUNK THERMOMETERS

MEANS OF UNCORRECTED READINGS for the THREE PERIODS—(1) April 1846–December 1850; (2) January 1851–December 1855; (3) January 1856–December 1859.

Periods.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
24-feet Thermometer.												
1st period	51°66	50°96	50°10	49°31	48°94	48°90	49°34	50°11	50°94	51°66	52°03	51°99
2nd ,,	51°22	50°53	49°79	49°04	48°56	48°51	48°86	49°60	50°49	51°29	51°75	51°69
3rd ,,	51°37	50°64	49°82	49°11	48°67	48°64	49°09	49°97	50°96	51°82	52°27	52°23
12-feet Thermometer.												
1st period	49°16	47°17	46°46	46°60	47°56	50°01	52°64	54°61	55°47	55°16	53°63	51°52
2nd ,,	48°75	47°21	45°89	45°80	47°02	49°02	51°61	54°00	55°25	54°96	53°33	50°85
3rd ,,	49°02	47°24	46°27	46°31	47°39	49°73	52°80	55°19	56°26	55°92	54°32	51°62
6-feet Thermometer.												
1st period	45°00	44°18	44°64	46°39	49°47	54°64	57°61	58°80	58°10	55°71	52°08	48°48
2nd ,,	45°73	44°22	43°57	45°85	48°94	52°86	57°01	58°95	58°51	55°79	51°65	47°60
3rd ,,	45°83	44°44	44°92	46°64	49°44	54°95	58°94	60°80	59°96	57°41	52°68	48°60
3-feet Thermometer.												
1st period	40°58	41°70	42°60	46°15	51°66	58°70	61°61	61°76	59°36	54°46	49°40	44°67
2nd ,,	42°34	40°52	41°15	45°89	50°34	55°79	61°17	62°27	59°97	54°45	48°16	43°55
3rd ,,	41°93	41°31	42°64	46°50	50°92	59°43	63°07	64°45	60°66	56°28	48°70	44°54

VALUES of COEFFICIENTS derived from the above.

Thermometers and Periods.	A.	P.	Log. P.	E ₁ in degrees.	E ₁ in Circular Measure.
	0	0	0	0	
24 feet { 1st period	50°50	1°6186	0°48154	135. 4	2°35750
2nd ,,	50°11	1°6399	0°49461	133. 16	2°32599
3rd ,,	50°38	1°8280	0°60322	138. 58	2°42547
12 feet { 1st period	50°83	4°6626	1°53958	201. 8	3°51044
2nd ,,	50°31	5°7336	1°55468	197. 48	3°45226
3rd ,,	51°01	5°1726	1°64338	199. 54	3°48877
6 feet { 1st period	51°26	7°5509	2°02167	232. 41	4°06099
2nd ,,	50°89	7°6413	2°03357	229. 12	4°00029
3rd ,,	52°05	8°3247	2°11923	230. 45	4°02720
3 feet { 1st period	51°05	10°773	2°37701	248. 19	4°33304
2nd ,,	50°47	10°830	2°38231	244. 45	4°27155
3rd ,,	51°70	11°646	2°45493	246. 45	4°30650

Thermometers compared.	Difference of log P ₁ divided by Difference of Depth.			Difference of E ₁ divided by Difference of Depth.		
	1st Period.	2nd Period.	3rd Period.	1st Period.	2nd Period.	3rd Period.
24 feet and 12 feet	·08817	·08834	·08668	·09608	·09386	·08861
24 ,, 6 ,,	·08556	·08550	·08422	·09464	·09302	·08898
24 ,, 3 ,,	·09026	·08989	·08818	·09412	·09265	·08957
12 ,, 6 ,,	·08035	·07982	·07931	·09176	·09134	·08974
12 ,, 3 ,,	·09305	·09196	·09017	·09150	·09103	·09086
6 ,, 3 ,,	·11845	·11625	·11190	·09098	·09042	·09310
Means.....	·09264	·09196	·09008	·09318	·09205	·09014

The Mean of ·09264 and ·09318 is ·09291.
 ,, ·09196 ,, ·09205 ,, ·09200.
 ,, ·09008 ,, ·09014 ,, ·09011.

COEFFICIENTS of the TERM whose PERIOD is ONE-THIRD of a YEAR.

Thermometers.	A ₃ .	B ₃ .	P ₃ .	Log. P ₃ .	E ₃ in Degrees.	E ₃ in Circular Measure.
24 feet.....	— 0·0133	— 0·0333	0·0359	— 3·3281	201. 47	3·5218
12 ,,	— 0·035	+ 0·00833	0·0360	— 3·3247	283. 23	4·9460
6 ,,	— 0·0833	+ 0·09	0·1226	— 2·0988	317. 13	5·5365
3 ,,	— 0·035	+ 0·1033	0·1091	— 2·2158	341. 17	5·9565

Thermometers compared.	Diff. of log. P ₃ divided by Diff. of Depth.	Quotients by $\sqrt{3}$ or Values of $\sqrt{\frac{\pi c}{k}}$.	Diff. of E ₃ divided by Diff. of Depth.	Quotients by $\sqrt{3}$ or Values of $\sqrt{\frac{\pi c}{k}}$.
24 feet and 12 feet	·0003	·0002	·1187	·0685
24 ,, 6 ,,	·0683	·0394	·1119	·0646
24 ,, 3 ,,	·0530	·0306	·1159	·0669
12 ,, 6 ,,	·2043	·1180	·0984	·0568
12 ,, 3 ,,	·1232	·0711	·1123	·0648
6 ,, 3 ,,	— ·0390	— ·0225	·1400	·0808
Means.....	....	·0395	....	·0671

The Mean of ·0395 and ·0671 is ·0533.

COEFFICIENTS of the TERM whose PERIOD is ONE-FOURTH of a YEAR.

Thermometers.	A ₄ .	B ₄ .	P ₄ .	Log. P ₄ .	E ₄ in Degrees.	E ₄ in Circular Measure.
24 feet.....	— 0·005	+ 0·00577	0·00764	— 4·8747	— 40. 55	— 0·7141
12 ,,	+ 0·0667	+ 0·0231	0·0706	— 2·6507	+ 70. 54	+ 1·2374
6 ,,	+ 0·0967	— 0·0202	0·0988	— 2·3148	101. 48	1·7764
3 ,,	+ 0·155	— 0·0663	0·1685	— 1·7806	173. 10	3·0223

Thermometers compared.	Diff. of log. P ₄ divided by Diff. of Depth.	Quotients by 2 or Values of $\sqrt{\frac{\pi c}{k}}$.	Diff. of E ₄ divided by Diff. of Depth.	Quotients by 2 or values of $\sqrt{\frac{\pi c}{k}}$.
24 feet and 12 feet	·1853	·0926	·1626	·0813
24 ,, 6 ,,	·1422	·0711	·1384	·0692
24 ,, 3 ,,	·1473	·0737	·1779	·0890
12 ,, 6 ,,	·0560	·0280	·0898	·0449
12 ,, 3 ,,	·0967	·0484	·1983	·0992
6 ,, 3 ,,	·1781	·0890	·4153	·2076
Means.....	....	·0671	....	·0985

The Mean of ·0671 and ·0985 is ·0828.

REDUCTION OF OBSERVATIONS OF DEEP-SUNK THERMOMETERS.

CORRECTIONS necessary to reduce CALCULATED to ACTUAL TEMPERATURES (corrected).

I. When only the Annual Term is employed.

Thermometers.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
24 feet.....	- .06	+ .03	+ .03	+ .05	+ .03	- .01	- .04	- .02	+ .01	+ .05	+ .07	- .02
12 ,,	- .07	+ .19	+ .24	+ .07	- .21	- .23	- .04	+ .18	+ .17	+ .06	- .10	- .28
6 ,,	+ .26	+ .62	+ .22	- .16	- .79	- .09	+ .38	+ .44	+ .13	- .08	- .52	- .37
3 ,,	+ .72	+ 1.04	- .03	- .50	- 1.27	+ .12	+ .79	+ .79	- .03	- .40	- 1.11	- .15

II. When the Annual and Half-yearly Terms are employed.

24 feet.....	- .01	+ .01	+ .01	.00	- .01	+ .01	+ .01	+ .02	- .01	.00	+ .03	.00
12 ,,	- .01	+ .02	+ .01	+ .01	- .04	.00	+ .02	+ .01	- .06	.00	+ .07	- .05
6 ,,	- .02	+ .08	- .04	+ .12	- .25	+ .17	+ .10	- .10	- .13	+ .20	+ .02	- .11
3 ,,	- .03	+ .44	- .16	+ .25	- .67	+ .25	+ .04	+ .19	- .16	+ .35	- .51	- .02

DATES of the CENTRES of the WARM and COLD HALVES of the YEAR, for each THERMOMETER, and DAYS whose TEMPERATURE is equal to the MEAN of the YEAR (for uncorrected readings).

Thermometers.	Centre of Warm.	Centre of Cold.	Vernal Mean.	Autumnal Mean.	Days from Vernal to Autumnal.	Days from Autumnal to Vernal.
Air.....	July 21	January 20	April 24	October 18	177	188
Inch.....	,, 26	,, 24	,, 30	,, 21	174	191
3 feet.....	August 9	February 8	May 15	November 3	172	193
6 ,,	,, 25	,, 24	,, 30	,, 21	175	190
12 ,,	September 25	March 27	June 28	December 23	178	187
24 ,,	November 30	June 1	September 1	February 28	180	185

The application of the corrections (p. (cciv)) will produce a retardation of 3 days for the 24-foot Thermometer, and of 1 day for the 12-foot Thermometer.

TABLE showing the RANGE of the ANNUAL CURVE of TEMPERATURE for each THERMOMETER (uncorrected).

Thermometers.	Highest.	Lowest.	Mean of Year.	Highest above Mean.	Lowest below Mean.	Range.
Air.....	70.2	40.4	54.8	15.4	14.4	29.8
Inch.....	66.2	40.8	52.1	14.1	11.3	25.4
3 feet.....	62.8	41.1	51.0	11.7	9.9	21.7
6 ,,	59.5	44.1	51.3	8.2	7.2	15.4
12 ,,	55.5	46.0	50.6	4.9	4.6	9.5
24 ,,	52.0	48.6	50.3	1.7	1.7	3.4

The numbers in this Table are for monthly means, understanding by a month any period of 30 or 31 days. The ranges, and departures, above and below mean of year, will be greater for daily means, by about 1 per cent.

The effect of the corrections (p. (cciv)) will be to increase the range by a tenth of a degree for the 24-foot Thermometer, and diminish it by the same amount for the 3-foot, 6-foot, and 12-foot Thermometers.

