RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS

MADE AT

THE ROYAL OBSERVATORY, GREENWICH,

1849.

(EXTRACTED FROM THE GREENWICH OBSERVATIONS, 1849.)

APPENDIX.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

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ROYAL OBSERVATORY, GREENWICH.

INDICATIONS

OF

MAGNETOMETERS.

1849.

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 1849, Telescope-Observations of the Magnetometers have usually been made four times every day (except Sundays); but though these observations are employed in forming the base-lines on the Photographic sheets, their immediate results are not necessarily given in the following pages.

Observations were made of the reading of the Horizontal Circle of the Theodolite, by which the DECLINATION MAGNET is observed, corresponding to the Astronomical Meridian, on January 6, April 21, June 16, 22, July 7, September 25, October 18, 19, November 1, and December 6.

Observations of the angle of torsion of the HORIZONTAL FORCE MAGNETOMETER were made on 1848, December 29 and 30. The angle determined was 42°. 53′, being 9′ larger than that determined last year. The angle used in the reduction of the observations is 42°. 44′. Observations were made for the times of vibration and readings of the scale for different readings of the torsion-circle on 1848, December 29; and the general conclusion was, that the scale-readings were nearly identical and had nearly the usual value when the reading of the torsion-circle was 144°. 30′ (marked end West); and 230°. 0′ (marked end East). The reading adopted for the adjustment of the torsion-circle throughout the year (marked end West) is 144°. 30′.

The number used for the variation of horizontal force for a disturbance through one division of the scale, in parts of the whole horizontal force, is 0·0020789.

The correction for temperature is $0 \cdot 00009050\ (t-32°) + 0 \cdot 000000626\ (t-32°)^2$. This is not applied to any of the results of observation.

Observations of the times of vibration of the VERTICAL FORCE MAGNETOMETER in a vertical plane have usually been made three times a week. The adopted time of vibration in the month of January was $24^s \cdot 3$; in February and till March 5 it was $23^s \cdot 1$; and from March 6 to the end of the year it was $22^s \cdot 6$.

Observations for the time of vibration in a horizontal plane were made in 1848, July, and the time was found to be $24^s \cdot 0164$ from 7000 vibrations. The values of the disturbing force, in terms of the whole vertical force, for one division of the scale, are inferred to be 0·000600 for January; 0·000664 for February and till March 5; and 0·000694 from March 6 till the end of the year; and these numbers are used in their respective periods.

The correction for temperature is $0 \cdot 00018979 \times (t-32°) + 0 \cdot 0000007257 \times (t-32°)^2$. This is not applied to any of the results of observation.

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

It is proper, however, to mention that, in measuring the ordinates of the Vertical Force Curves, the same difficulty that is mentioned in the volume for 1848 has still occasionally been felt. Occasionally, without any apparent cause, the curve is dislocated; one part being raised above or depressed below the contiguous part, in the direction of the ordinate, by a considerable quantity. In some instances this has been traced to a possible disturbance during the operation of changing the lamps (a cause of disturbance which, however, has nearly ceased to exist since 1849,

August 18, when the camphine lamps were exchanged for lamps of coal-gas charged with the vapour of coal-naphtha), or shutting the doors: in other cases no obvious cause can be assigned. In all cases this displacement is accompanied with vibration, the original position being at the extremity of the arc of vibration, and the new position being at the center of the arc: shewing that there has been no want of delicacy of the movement, and that the change has been precisely the same as would be caused by the quiet application of a small weight upon one end of the magnet. To combine these dislocated parts, a small machine has been prepared, by means of which a piece of tracing-paper can be slid, parallel to itself, in the direction of the ordinates: and the various portions of the curve are traced on this paper in such a manner that their ends are properly joined. This traced curve is then used for the measure of the ordinates. I conceive that these measures, for a single sheet, are perfectly and accurately comparable: although it is evident that the results on one sheet cannot always be compared with those on another.

In general the ordinates of the photographic curves have been measured only at the times of the maximum and minimum values; but, on days in which the unsteadiness of the magnets was strongly marked, the ordinates have been measured at well-marked bends of the curve: so 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, and connecting these points by straight lines, will very nearly reproduce the original curves.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Jan. 2		Jan. 2		Jan. 2				
h m	° ′ ″	h m		h m			°	°
3. 38	22. 37. 15	3. 23	·1043	3. 30	·00904	3	44 ·0	44 ·5
15. 36	32. 15	5. 50	·1033	8. 45	·00800	9	41 ·0	41 ·0
23. 36	37. 0	7. 0	·1039	12. 12	·01043	21	29 ·0	29 ·0
		14. 55	·1057	22. 48	·00853			
		17. 40	·1053					
		19. 0	·1067					
		23. 7	·1035					
		23. 23	·1047					
Jan. 3		Jan. 3		Jan. 3				
1. 35	22. 41. 15	1. 32	·1032	0. 0	·00726	1	35 ·0	35 ·5
11. 6	30. 15	17. 15	·1049	11. 7	·00758	3	39 ·0	39 ·0
14. 30	38. 30	18. 30	·1041	22. 30	·00885	9	38 ·5	38 ·0
15. 10	33. 30	19. 22	·1063			21	35 ·0	35 ·0
23. 35	42. 30	21. 45	·1039					
		22. 50	·1033					
Jan. 4		Jan. 4		Jan. 4				
1. 33	22. 44. 0	0. 52	·1020	1. 12	·00810	1	41 ·5	41 ·5
4. 0	41. 45	2. 23	·1035	4. 50	·00978	3	39 ·5	39 ·5
4. 33	29. 30	4. 15	·1011	10. 35	·00893	9	41 ·0	41 ·5
5. 45	35. 0	5. 24	·1039	23. 6	·00985	21	37 ·0	37 ·5
8. 10	34 30	8. 42	·1019					
9. 0	22. 0	9. 29	·1040					
10. 25	32. 30	23. 0	·1023					
23. 34	39. 15							
Jan. 5		Jan. 5		Jan. 5				
0. 32	22. 41. 30	0. 3	·1022	0. 0	·00964	1	40 ·0	40 ·5
21. 44	31. 0	18. 24	·1048	3. 5	·00893	3	41 ·0	41 ·5
23. 55	37. 30	23. 33	·1025	5. 0	·00968	9	43 ·0	43 ·5
				19. 8	·00882	21	37 ·5	37 ·5
				23. 0	·00950			
Jan. 6		Jan. 6		Jan. 6				
0. 45	22. 39. 45	0. 10	·1025	1. 0	·01018	1	38 ·0	38 ·0
14. 50	30. 15	2. 28	·1044	8. 20	·00930	3	42 ·0	42 ·0
23. 45	37. 30	8. 25	·1033	12. 0	·01185	9	42 ·0	42 ·0
		13. 0	·1044	23. 18	·00950			
		13. 18	·1032					
		20. 3	·1048					
		22. 0	·1034					
Jan. 7		Jan. 7		Jan. 7				
1. 45	22. 41. 0	0. 0	·1034	0. 30	·00832	0	34 ·0	34 ·0
10. 8	34. 0	3. 7	·1047	6. 40	·00752	9	37 ·0	37 ·0
11. 18	27. 0	3. 40	·1039	15. 10	·00592	21	38 ·0	38 ·0
12. 10	34. 45	10. 14	·1047	23. 20	·00695			
13. 20	29. 45	11. 10	·1022					
14. 25	39. 45	11. 44	·1034					
14. 49	31. 45	12. 42	·1017					
15. 23	30. 0	13. 28	·1036					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Jan. 7		Jan. 7						
h m	° ′ ″	h m		h m			°	°
20. 0	22. 43. 0	13. 53	·1029					
21. 50	35. 0	14. 16	·1048					
22. 20	42. 0	14. 47	·1032					
		15. 0	·1059					
		15. 38	·1042					
		21. 51	·1007					
		23. 15	·1029					
Jan. 8		Jan. 8		Jan. 8				
0. 30	22. 46. 30	0. 27	·1033	0. 0	·00950	1	43 ·0	43 ·5
10. 40	34. 0	1. 8	·1012	1. 15	·00900	3	45 ·0	45 ·5
11. 0	25. 30	2. 56	·1023	3. 35	·00982	9	45 ·0	45 ·0
11. 12	24. 0		(†)	11. 0	·00840	21	43 ·5	43 ·5
12. 10	34. 0	7. 18	·1022	23. 0	·00967			
17. 10	33. 45	9. 54	·1018					
23. 24	37. 30	17. 37	·1041					
		22. 50	·1013					
Jan. 9		Jan. 9		Jan. 9				
0. 45	22. 42. 0	0. 30	·1022	0. 30	·01128	1	48 ·0	48 ·5
9. 20	32. 0		***	1. 38	·01090	3	51 ·0	51 ·0
9. 33	25. 30	2. 40	·1009	3. 23	·01168	9	50 ·0	50 ·5
10. 51	33. 30		***	9. 0	·01073	21	44 ·0	44 ·0
23. 15	40. 0	3. 21	·1023	11. 30	·01190			
			***	23. 30	·01030			
		5. 10	·1009					
			***					
		14. 0	·1033					
			***					
		14. 35	·1029					
		15. 23	·1044					
			***					
		21. 22	·1015					
			***					
		22. 10	·1021					
			***					
		23. 41	·1014					
Jan. 10		Jan. 10		Jan. 10				
2. 20	22. 39. 45	0. 0	·1015	0. 0	·01080	1	48 ·0	48 ·5
5. 30	32. 30		***	1. 50	·01032	3	48 ·0	48 ·5
6. 45	39. 45	0. 18	·1009	3. 30	·01060	9	48 ·0	48 ·0
7. 38	30. 30		***	5. 22	·00980	21	41 ·0	41 ·5
8. 12	36. 45	1. 10	·1021	12. 0	·00985			
8. 35	29. 30		***	13. 10	·01020			
21. 10	32. 30	1. 45	·1016	23. 0	·00923			
			***					
		2. 18	·1027					
			***					
		5. 25	·1015					
			***					
		7. 14	·1019					
			***					

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

The time of reading the thermometers is the hour specified in Greenwich Time, or the hour increased by 40^{m} in Göttingen Time.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Jan. 10		Jan. 10						
h m	° ′ ″	h m		h m			°	°
23. 55	22. 39. 45	8. 10	·1043					
			***					
		8. 28	·1016					
			***					
		20. 8	·1036					
			***					
		23. 30	·1026					
Jan. 11		Jan. 11		Jan. 11				
3. 15	22. 42. 0	0. 15	·1025	0. 7	·01082	1	42 ·0	42 ·5
11. 7	28. 30		***	8. 0	·00990	3	44 ·0	44 ·5
23. 45	36. 30	2. 45	·1035	22. 30	·01015	9	43 ·0	43 ·0
			***			21	39 ·0	39 ·0
		7. 46	·1024					
			***					
		20. 33	·1049					
			***					
		23. 40	·1020					
Jan. 12		Jan. 12		Jan. 12				
1. 38	22. 40. 0	0. 0	·1019	0. 30	·00985	1	39 ·0	39 ·0
21. 15	31. 15	3. 5	·1046	3. 45	·00880	3	42 ·0	42 ·0
23. 55	37. 0	5. 12	·1029	6. 10	·00822	9	43 ·0	43 ·0
		15. 42	·1036	17. 18	·00814	21	43 ·5	43 ·5
			(†)	23. 0	·00845			
		22. 0	·1025					
		23. 30	·1020					
Jan. 13		Jan. 13		Jan. 13				
2. 38	22. 39. 30	0. 7	·1017	0. 20	·01035	1	48 ·0	48 ·0
15. 20	30. 30	1. 22	·1015	1. 20	·01010	3	52 ·5	52 ·5
18. 0	33. 30	1. 53	·1029	4. 30	·01150	9	52 ·5	52 ·5
20. 58	27. 30	3. 33	·1015	9. 30	·01097			
23. 6	35. 0	10. 50	·1026	15. 50	·01072			
		13. 38	·1019	23. 0	·01110			
		14. 3	·1030					
		21. 0	·1010					
		23. 6	·1016					
Jan. 14		Jan. 14		Jan. 14				
6. 40	22. 47. 0	0. 0	·1020	0. 40	·01345	1	53 ·0	53 ·5
6. 50	39. 0	1. 50	·1037	5. 50	·01310	9	50 ·0	50 ·5
7. 5	42. 0	3. 42	·1011	11. 40	·01618	21	41 ·0	41 ·0
7. 17	29. 30	4. 28	·1033	16. 20	·01300			
7. 33	42. 0	5. 54	·1019	20. 0	·01390			
11. 16	28. 0	6. 18	·1035	23. 0	·01440			
11. 42	37. 0	7. 7	·0997					
12. 2	18. 30	7. 25	·1033					
13. 0	34. 30	8. 23	·1007					
13. 15	22. 40	9. 0	·1021					
13. 21	28. 10	11. 20	·0986					
14. 18	19. 45	11. 43	·1004					

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Jan. 14		Jan. 14						
h m	° ′ ″	h m		h m			°	°
15. 52	22. 39. 15	12. 0	·0986					
16. 50	23. 30	12. 13	·1001					
23. 38	40. 30	12. 46	·0980					
		12. 57	·1010					
		13. 22	·0976					
		17. 15	·1022					
		23. 15	·0997					
		23. 35	·1016					
Jan. 15		Jan. 15		Jan. 15				
2. 10	22. 47. 30	0. 13	·1010	0. 0	·01055	1	43 ·5	43 ·5
8. 54	36. 0	1. 33	·1046	2. 8	·01115	3	46 ·0	46 ·0
9. 18	25. 0	1. 56	·1016	3. 50	·00958	9	47 ·0	47 ·0
9. 47	31. 45	2. 15	·1045	7. 30	·01092	21	42 ·0	42 ·0
11. 0	28. 0	2. 48	·1019	10. 30	·00985			
12. 10	35. 0	4. 52	·1036	17. 0	·01170			
12. 50	29. 15	6. 16	·1009	23. 0	·01140			
14. 35	36. 0	6. 42	·1028					
15. 44	27. 0	7. 12	·0998					
17. 12	33. 0	9. 30	·1019					
21. 8	28. 45	11. 38	·1009					
23. 55	38. 0	12. 8	·1040					
		12. 38	·1016					
		23. 12	·1012					
Jan. 16		Jan. 16		Jan. 16				
0. 0	22. 38. 0	0. 15	·1019	0. 30	·00970	2	43 ·0	43 ·5
6. 10	42. 0		***	3. 7	·00860	3	45 ·0	45 ·0
6. 30	14. 15	2. 8	·1038	5. 17	·00933	9	49 ·0	49 ·0
6. 38	22. 0		***	6. 22	·01100	21	49 ·0	49 ·5
6. 42	18. 0	2. 40	·1018	7. 34	·00975			
6. 54	27. 45		***	9. 14	·01020			
7. 12	23. 50	3. 32	·1035	11. 45	·00852			
7. 39	48. 0		***	17. 0	·00795			
7. 45	30. 30	4. 32	·0997	23. 1	·00941			
8. 34	41. 0	4. 45	·1006					
10. 42	30. 0	5. 10	·1011					
12. 22	36. 45	5. 37	·1020					
22. 5	38. 0	6. 24	·0989					
23. 47	36. 30	6. 33	·1033					
		7. 5	·1022					
		7. 25	·1041					
		7. 40	·0968					
		8. 2	·1012					
		8. 22	·0996					
		10. 12	·1021					
		10. 50	·1000					
		20. 40	·1022					
		23. 22	·1003					
Jan. 17		Jan. 17		Jan. 17				
1. 58	22. 43. 0	0. 0	·1001	0. 0	·01290	1	51 ·0	51 ·0

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The time of reading the thermometers is the hour specified in Greenwich Time, or the hour increased by 40^m in Gottingen Time.

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

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Jan. 17		Jan. 17		Jan. 17				
h m	° ′ ″	h m		h m			°	°
21. 30	22. 31. 15	2 53	·0994	1. 23	·01198	3	53 ·0	53 ·5
23. 50	37. 30	19. 14	·1026	5. 7	·01300	9	54 ·0	54 ·0
		22. 53	·1006	9. 40	·01110	21	46 ·0	46 ·0
				13. 45	·01360			
				22. 30	·01225			
Jan. 18		Jan. 18		Jan. 18				
1. 3	22. 39. 0	0. 6	·1005	0. 0	·01352	1	47 ·0	47 ·5
21. 53	29. 30	3. 22	·1017	3. 50	·01050	3	51 ·0	51 ·0
23. 30	33. 30	6. 58	·1015	15. 10	·01100	9	51 ·0	51 ·0
		20. 0	·1029	23. 0	·01263	21	50 ·0	50 ·0
		23. 42	·0997					
Jan. 19		Jan. 19		Jan. 19				
2. 37	22. 41. 0	1. 0	·0999	0. 0	·01370	1	52 ·0	52 ·0
21. 30	28. 30	19. 22	·1028	4. 0	·01150	3	54 ·0	54 ·0
23. 50	34. 15	23. 20	·0998	14. 40	·01283	9	54 ·0	54 ·0
				23. 0	·01273	21	51 ·0	51 ·0
Jan. 20		Jan. 20		Jan. 20				
2. 30	22. 39. 15	0. 30	·1002	0. 0	·01273	1	52 ·0	52 ·0
21. 30	29. 45	7. 32	·1022	8. 30	·01010	3	54 ·0	54 ·5
23. 40	35. 15	8. 53	·1009	10. 30	·01087	9	54 ·3	54 ·3
		12. 6	·1015	23. 0	·00996	21	49 ·0	49 ·0
		12. 38	·1034					
		13. 40	·1019					
		18. 40	·1031					
		22. 45	·1005					
Jan. 21		Jan. 21		Jan. 21				
2. 17	22. 40. 30	0. 0	·1005	1. 0	·01378	1	49 ·5	49 ·5
21. 40	28. 30	11. 15	·1046	10. 0	·01056	3	52 ·0	52 ·0
23. 52	36. 15	15. 55	·1035	23. 0	·01210	9	51 ·5	51 ·5
		21. 55	·1020			21	49 ·0	49 ·0
Jan. 22		Jan. 22		Jan. 22				
1. 43	22. 39. 30	0. 57	·1018	0. 30	·01395	1	50 ·0	50 ·5
12. 21	29. 30	10. 22	·1040	6. 35	·00900	3	53 ·0	53 ·5
13. 23	35. 0	14. 7	·1017	11. 45	·01288	9	50 ·0	50 ·5
14. 38	21. 45	14. 38	·1040	21. 50	·01170	21	46 ·0	46 ·0
15. 0	27. 30	16. 8	·1016	23. 30	·01242			
15. 30	24. 0	18. 15	·1033					
17. 12	32. 0	23. 25	·1016					
17. 39	28. 0							
22. 55	36. 0							
Jan. 23		Jan. 23		Jan. 23				
0. 37	22. 39. 0	1. 8	·1032	0. 0	·01238	1	46 ·7	46 ·7
1. 32	34. 0	5. 23	·1007	3. 32	·00988	3	50 ·0	50 ·0
2. 2	40. 0	8. 18	·1029	6. 0	·01042	9	51 ·5	51 ·5
8. 30	32. 5	10. 30	·1009	11. 7	·00962	21	47 ·0	47 ·0
9. 40	35. 0	19. 13	·1030	22. 55	·01200			

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Jan. 23		Jan. 23						
h m	° ′ ″	h m					°	
10. 8	22. 28. 30	20. 22	·1009					
10. 21	34. 0	22. 50	·1040					
10. 40	27. 30	23. 10	·1015					
10. 52	31. 30							
11. 20:	24. 30							
12. 6	30. 0							
15. 30	34. 30							
20. 40	29. 15							
23. 7	34. 30							
Jan. 24		Jan. 24						
2. 20	22. 42. 0	0. 30	·0997			1	50 ·0	
7. 52	33. 0	7. 30	·1024			3	53 ·5	
8. 42	25. 0	9. 48	·1024			9	52 ·5	
9. 22	31. 30		(†)			21	48 ·0	
10. 12	21. 30	21. 40	·1010*					
12. 16	30. 30		(†)					
13. 17	26. 15							
14. 0	35. 0							
20. 57	28. 30							
23. 37	36. 30							
Jan. 25		Jan. 25						
0. 10	22. 35. 45	0. 52	·1000			1	51 ·0	
1. 5	43. 15	2. 52	·1017			3	54 ·0	
1. 37	37. 30	8. 21	·1009			9	54 ·5	
8. 0	34. 0	8. 40	·1041			21	50 ·0	
8. 22	23. 15	9. 3	·0997					
8. 53	34. 15	9. 18	·1016					
9. 10	26. 0	9. 46	·1000					
9. 42	30. 0	11. 40	·0989					
9. 55	25. 15	13. 18	·1017					
10. 47	33. 30	22. 50	·0997					
11. 23:	23. 15							
12. 8	31. 30							
13. 6	26. 45							
23. 32	36. 30							
Jan. 26		Jan. 26						
2. 0	22. 42. 0	0. 20	·1000			1	51 ·0	
6. 39	38. 15	6. 36	·1031			3	54 ·0	
7. 46	31. 0	7. 36	·1011			9	52 ·0	
8. 8	37. 45	8. 2	·1030			21	43 ·0	
8. 20	33. 10	9. 57	·1001					
8. 36	37. 0	11. 6	·1023					
10. 6	25. 0	11. 18	·1013					
10. 52	29. 15	13. 45	·1034					
11. 20	23. 15	14. 7	·1017					
12. 46	29. 45	21. 0	·1033					
23. 38	37. 15	23. 13	·1013					

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The time of reading the thermometers is the hour specified in Greenwich Time, or the hour increased by 40^m in Göttingen Time.

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

Jan. 24^d to 26^d, the Vertical Force magnet and its stand were in the hands of Mr. Barrow, and on the 27th and 28th days it was under adjustment.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Jan. 27		Jan. 27						
h m	° ′ ″	h m		h m			°	°
2. 22	22. 43. 30	0. 12	·1015			1	43·0	43·0
9. 22	28. 0	0. 45	·0997			3	45·0	45·0
23. 45	35. 15	9. 40	·1038			9	45·7	45·5
		23. 33	·1011			22	45·0	45·0
Jan. 28		Jan. 28						
2. 47	22. 40. 45	0. 15	·1011			1	44·5	45·0
7. 0	36. 0	8. 45	·1039			9	44·7	44·5
8. 5	25. 30	9. 33	·1029			21	41·0	41·0
9. 0	34. 0	10. 50	·1040					
11. 6	30. 0	17. 50	·1047					
23. 35	35. 15	23. 30	·1032					
Jan. 29		Jan. 29		Jan. 29				
2. 16	22. 40. 30	1. 20	·1026	0. 0	·00994	1	43·5	43·0
9. 30	32. 40	1. 40:	·1030	3. 33	·00910	3	44·0	44·0
9. 37	27. 0	2. 0:	·1026	5. 15	·00955	9	45·5	45·5
9. 44	32. 0	2. 22	·1034	10. 0	·00912	21	39·0	39·5
10. 55	28. 30	2. 45	·1029	15. 35	·01135			
23. 30	35. 0	19. 50	·1055	23. 0	·01032			
		23. 30	·1028					
Jan. 30		Jan. 30		Jan. 30				
2. 10	22. 48. 0	0. 52	·1026	1. 0	·00895	1	41·0	41·5
10. 22	31. 0	2. 25	·1048	14. 40	·00862	3	43·0	43·0
13. 40	47. 45	3. 10	·1011	23. 30	·01095	9	44·0	44·5
14. 40	32. 45	5. 0	·1047			21	35·0	35·0
15. 34	48. 0	7. 45	·1015					
23. 38	34. 50	10. 50	·1037					
		11. 0	·1026					
		14. 10	·1043					
		23. 0	·1026					
Jan. 31		Jan. 31		Jan. 31				
2. 33	22. 37. 0		(†)		(†)	1	44·0	44·5
22. 36	28. 30	1. 40	·1021*	6. 7	·01173	3	46·0	46·0
23. 9	33. 30		(†)	10. 0	·01030	9	48·0	48·5
23. 40	28. 0	9. 40	·1033	13. 45	·01200	21	40·0	40·0
		22. 40	·1011	23. 17	·01085			
Feb. 1		Feb. 1		Feb. 1				
0. 0	22. 29. 0	1. 2	·1010	0. 27	·01065	1	41·0	41·5
2. 3	37. 30	3. 27	·1040	4. 24	·00876	3	43·5	43·5
4. 0	33. 0	7. 38	·1015	21. 55	·00925	9	45·0	45·0
8. 0	27. 45	12. 40	·1045			21	44·0	44·5
9. 34	34. 0	23. 20	·1029					
12. 42	36. 30							
23. 48	45. 30							
Feb. 2		Feb. 2		Feb. 2				
2. 0	22. 35. 30	0. 12	·1023		(†)	1	47·0	47·5
11. 20	29. 30	2. 45	·1015	7. 5	·01320	3	52·0	

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Feb. 2		Feb. 2		Feb. 2				
h m	° ′ ″	h m		h m			°	°
14. 58	22. 33. 45	7. 12	·1035	14. 15	·01290	9	51·0	51·5
16. 52	28. 15	10. 57	·1029	15. 33	·01275	21	48·5	48·5
23. 30	37. 0	16. 30	·1045		(†)			
		23. 0	·1023	22. 4	·01030			
				23. 30	·01065			
Feb. 3		Feb. 3		Feb. 3				
0. 16	22. 38. 45		(†)	0. 0	·01068	1	48·5	49·0
10. 41	28. 30	1. 40	·1024*	2. 8	·00995	3	49·5	49·5
23. 40	35. 0		(†)		(†)	9	50·5	50·5
		9. 46	·1034	6. 0	·00883	22	48·5	48·5
		10. 34	·1029	11. 0	·00850			
		10. 40	·1043	23. 30	·01052			
		11. 7	·1030					
		11. 20	·1042					
		12. 5	·1029					
		17. 57	·1039					
		22. 50	·1020					
Feb. 4		Feb. 4		Feb. 4				
2. 20	22. 39. 0	0. 40	·1019	0. 0	·01215	4	49·5	49·5
5. 8	33. 0	3. 38	·1033	6. 29	·01040	9	49·5	49·5
6. 45	38. 0	5. 46	·1015	8. 10	·01065	21	48·0	48·0
7. 50	28. 15	8. 20	·1040	9. 0	·01200			
8. 26	34. 0	8. 55	·1022	13. 30:	·01008			
8. 39	34. 30	18. 0	·1036	22. 15	·01070			
9. 3	29. 30	23. 15	·1020					
21. 45	31. 30							
Feb. 5		Feb. 5		Feb. 5				
1. 58	22. 48. 0	0. 0	·1020	0. 0	·01275	1	49·0	49·0
8. 47	40. 30	6. 50	·1031	6. 20	·01085	3	51·0	51·0
23. 50	46. 30	8. 40	·1010	23. 30	·01200	9	52·0	52·0
		20. 0	·1036			21	48·0	48·5
		22. 54	·1014					
Feb. 6		Feb. 6		Feb. 6				
2. 17	22. 49. 45	0. 15	·1011	0. 0	·01145	1	50·0	50·5
9. 10	43. 0	8. 15	·1034	3. 35:	·01215	3	50·0	50·5
9. 40	35. 0	11. 53	·1019	11. 30	·01036	9	50·0	50·5
10. 39	41. 40	19. 10	·1036	23. 30	·01235	21	46·0	46·5
11. 30	38. 10	23. 8	·1015					
14. 45	45. 0							
21. 38	39. 30							
Feb. 7		Feb. 7		Feb. 7				
3. 0	22. 50. 30	0. 24	·1011	1. 0	·01225	1	48·0	48·0
21. 0	39. 15	19. 0	·1044	9. 52	·00963	3	48·0	48·5
23. 52	47. 0	23. 5	·1019	19. 0	·01195	9	48·5	48·5
				23. 30	·01164	21	44·0	44·0

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Feb. 8		Feb. 8		Feb. 8				
h m	° ′ ″	h m		h m			°	°
2. 22	22. 51. 0	1. 20	·1017	0. 15	·01172	1	47 ·5	47 ·5
21. 30	39. 0		***	3. 40	·01030	3	49 ·0	49 ·0
23. 45	48. 30	18. 0	·1045	11. 40	·01060	9	52 ·0	52 ·5
			***	23. 15:	·00850	21	42 ·0	42 ·0
		23. 13	·1015					
Feb. 9		Feb. 9		Feb. 9				
2. 30	22. 51. 30	0. 16	·1013	0. 0	·01115	1	43 ·5	43 ·5
9. 30	41. 0		***	5. 30	·00940	3	45 ·5	45 ·5
15. 46	44. 45	6. 55	·1039	23. 55	·00890	9	48 ·0	48 ·0
21. 47	40. 0		***			21	47 ·0	47 ·0
		9. 10	·1028					
			***					
		19. 0	·1043					
			***					
		23. 40	·1013					
Feb.10		Feb.10		Feb.10				
3. 22	22. 53. 30	0. 30	·1016	0. 30	·01130	1	48 ·0	48 ·5
12. 40	35. 0	19. 10:	·1040	2. 45	·01035	3	51 ·0	51 ·5
	***	23. 8	·1022	7. 24:	·01162	9	51 ·0	51 ·5
23. 53	44. 30			23. 30	·01140	22	43 ·0	43 ·5
Feb.11		Feb.11		Feb.11				
2. 30	22. 53. 45	0. 50	·1023	0. 0	·01130	1	44 ·0	44 ·5
12. 38	38. 30	5. 0	·1038	3. 46:	·01152	9	47 ·0	47 ·5
	***	7. 35	·1029	11. 7	·00942	21	39 ·0	39 ·5
23. 38	47. 0		***	15. 50	·01150			
		19. 30:	·1056	23. 30	·01038			
			***					
		23. 38	·1028					
Feb.12		Feb.12		Feb.12				
3. 10	22. 54. 0	0. 30	·1030	0. 30	·01020	1	40 ·0	40 ·5
6. 0	48. 0	7. 20	·1051	5. 55	·00862	3	43 ·0	43 ·5
7. 30	53. 30	8. 23	·1039	9. 33	·00920	9	44 ·0	44 ·0
8. 27	47. 0	8. 33	·1059	11. 45	·00855	21	37 ·5	38 ·0
8. 46	51. 30	9. 12	·1013	17. 50	·01080			
9. 18	40. 0	10. 0	·1034	23. 45	·00995			
	***	20. 18:	·1055					
23. 45	47. 45	23. 10	·1040					
Feb.13		Feb.13		Feb.13				
3. 22	22. 54. 0	0. 37	·1028	0. 0	·00990	1	40 ·0	40 ·5
12. 40	43. 30	3. 22	·1049	4. 50	·00860	3	44 ·0	44 ·5
13. 15	36. 45	4. 47	·1015	8. 30	·00978	9	48 ·0	48 ·5
14. 8	46. 15	5. 45	·1039	14. 45	·00865	21	40 ·0	40 ·0
15. 42	39. 0	8. 8	·1017	23. 30	·01130			
23. 52	50. 0	9 40	·1037					
		12. 50	·1043					
		13. 54	·1021					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
		Feb.13						
h m	° ′ ″	h m		h m			°	°
		19. 42	·1043					
		23. 12	·1028					
Feb.14		Feb.14		Feb.14				
3. 15	22. 52. 30	0. 22	·1032	0. 0	·01090	1	44 ·0	44 ·5
9. 38	37. 30		***	3. 38	·00942	3	51 ·0	51 ·0
14. 45	41. 0	3. 40	·1010	6. 45:	·01042	9	50 ·0	50 ·0
15. 20	32. 15		***	11. 45	·00975	21	44 ·0	44 ·0
15. 45	38. 0	11. 45	·1027	23. 45	·01244			
23. 54	46. 30		***					
		14. 6	·1019					
			***					
		14. 44	·1045					
			***					
		15. 0	·1016					
			***					
		18. 33	·1037					
			***					
		23. 16	·1007					
Feb.15		Feb.15		Feb.15				
1. 40	22. 51. 30	0. 43	·1006	0. 0	·01235	1	50 ·0	50 ·5
9. 53	43. 30		***	4. 10	·01040	3	51 ·0	51 ·5
10. 30	37. 0	7. 10	·1028	7. 0:	·01106	9	54 ·0	54 ·0
23. 35	47. 15		***	23. 30	·00865	21	45 ·0	45 ·5
		11. 17	·1010					
			***					
		20. 20:	·1046					
			***					
		23. 46	·1021					
Feb.16		Feb.16		Feb.16				
0. 3	22. 46. 0	0. 8	·1018	0. 0	·01172	1	47 ·0	47 ·5
3. 18	50. 0		***	10. 13	·00872	3	50 ·0	50 ·5
14. 47	33. 30	10. 13	·1036	17. 25:	·01112	9	48 ·0	48 ·5
15. 40	37. 15		***	23. 30	·01045	21	41 ·0	41 ·5
16. 15	30. 0	14. 14	·1018					
17. 30	41. 45		***					
23. 45	49. 30	15. 48	·1035					
			***					
		16. 53	·1020					
			***					
		19. 0	·1038					
			***					
		20. 52	·1025					
			***					
		22. 45	·1034					
Feb.17		Feb.17		Feb.17				
3. 30	22. 55. 15	0. 28	·1026	0. 0	·01038	1	42 ·0	42 ·5
21. 54	37. 0		***	2. 30:	·01054	3	48 ·0	48 ·5
23. 52	44. 45	4. 50	·1019	4. 33	·00913	9	50 ·0	50 ·5
			***					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
h m	° ′ ″						°	°
		Feb.17		Feb.17				
		h m		h m				
		13. 30	·1040	6. 45:	·00986	23	43 ·0	43 ·0
			***	11. 25	·00910			
		18. 45	·1039	18. 50	·01186			
			***	23. 40	·01100			
		22. 45	·1021					
		Feb.18		Feb.18				
Feb.18								
3. 17	22. 57. 0	1. 0	·1025	0. 0	·01100	1	43 ·0	43 ·0
3. 48	50. 0	3. 12	·1043	5. 50	·00922	9	48 ·0	48 ·0
4. 20	54. 45	5. 16	·1014	6. 52	·00990	21	46 ·0	46 ·5
5. 10	47. 15	6. 22	·1028	8. 52	·00962			
6. 15	52. 30	6. 50	·1011	9. 23	·00982			
6. 45	51. 0	8. 10	·1030	9. 42	·00910			
7. 18	29. 0	8. 52	·0996	10. 2	·00920			
8. 13	47. 30	9. 42	·1046	13. 32	·00840			
8. 25	41. 45	9. 59	·1002	23. 30	·00885			
8. 43	48. 30	10. 15	·1026					
9. 28	32. 30	10. 45	·1004					
9. 45	42. 30	12. 12	·0996					
10. 50	29. 30	12. 32	·1019					
12. 8	37. 30	12. 51	·0990					
12. 34	32. 45	13. 16	·1024					
12. 42	38. 30	13. 20	·0992					
13. 12	28. 30	14. 10	·1016					
13. 54	40. 15	23. 30	·1017					
19. 40	48. 15							
21. 33	42. 30							
23. 40	47. 15							
		Feb.19		Feb.19				
Feb.19								
1. 8	22. 52. 45	0. 37	·1013	0. 30	·01018	1	49 ·0	49 ·5
3. 16	50. 30	4. 45	·1037	2. 15	·01050	3	50 ·0	50 ·5
6. 50	57. 0	7. 16	·1002	3. 55	·00990	9	50 ·5	50 ·5
8. 17	46. 15	8. 56	·1022	4. 40	·01040	21	46 ·0	46 ·0
8. 38	51. 15	9. 20	·0994	10. 0	·01380			
9. 30	25. 30	9. 42	·1015	14. 15	·01250			
10. 12	42. 30	11. 37	·0986	17. 22	·01335			
11. 12	48. 15	13. 45	·1017	23. 45	·01285			
11. 42	34. 45	14. 15	·0994					
12. 27	42. 30	14. 28	·1009					
14. 23	25. 45	14. 54	·0985					
14. 47	34. 30	15. 18	·1003					
15. 10	29. 0	17. 8	·0992					
17. 30	39. 0	18. 0	·1016					
18. 2	33. 0	23. 40	·1003					
23. 30	46. 0							
		Feb.20		Feb.20				
Feb.20								
3. 8	22. 54. 0	0. 20	·1000	0. 0	·01292	1	49 ·0	49 ·5
5. 50	42. 30	5. 25	·1023	4. 36	·01188	3	51 ·0	51 ·0
8. 38	52. 30	10. 8	·0999	6. 15	·01255	9	51 ·8	51 ·8

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
		Feb.20		Feb.20				
Feb.20								
h m	° ′ ″	h m		h m			°	°
10. 12	22. 30. 0	12. 13	·1012	11. 55	·01190	21	44 ·5	44 ·5
11. 53	45. 15	12. 30	·0996	16. 40	·01418			
12. 50	37. 45	13. 40	·1020	23. 30	·01305			
13. 23	41. 0	14. 6	·0996					
13. 40	28. 0	19. 25:	·1026					
14. 2	39. 0	23. 35	·1008					
15. 25	36. 30							
16. 22	44. 0							
16. 40	39. 15							
23. 10	48. 0							
		Feb.21		Feb.21				
Feb.21								
1. 27	22. 57. 0	0. 17	·0991	0. 0	·01148	1	46 ·0	46 ·0
8. 10	44. 30	7. 0	·1028	1. 20	·01195	3	49 ·0	49 ·0
8. 57	26. 0	8. 46	·1007	6. 30	·00910	9	49 ·0	49 ·0
9. 42	43. 15	14. 37	·1035	15. 0	·00840	21	50 ·0	50 ·5
10. 0	38. 30	17. 11	·1014	23. 30	·00920			
11. 18	45. 30	18. 18	·1034					
12. 8	39. 0	22. 55	·0994					
12. 37	44. 30							
14. 45	31. 30							
16. 10	43. 30							
16. 24	38. 30							
23. 30	49. 0							
		Feb.22		Feb.22				
Feb.22								
0. 0	22. 49. 30	0. 0	·1000	0. 0	·00940	1	54 ·0	54 ·5
2. 53	56. 30	0. 30	·0997	7. 10	·01152	3	59 ·0	59 ·5
6. 22	43. 45	2. 48	·1019	7. 38	·01228	9	53 ·0	53 ·5
6. 50	51. 15	3. 45	·1000	7. 55	·01090	21	43 ·0	43 ·5
7. 3	39. 30	5. 48	·1028	8. 40	·01072			
7. 30	53. 15	6. 52	·0999	9. 0	·01110			
7. 43	29. 30	7. 0	·1028	9. 28	·01058			
8. 7	53. 0	7. 37	·0995	11. 12	·01045			
8. 48	45. 0	7. 42	·1045	11. 30	·00955			
8. 53	51. 15	8. 0	·1002	23. 30	·00810			
9. 7	23. 0	8. 40	·1023					
9. 40	38. 45	8. 52	·0981					
9. 45	30. 0	9. 3	·1027					
11. 30	45. 15	9. 37	·0981					
13. 9	30. 30	11. 20	·1002					
13. 28	38. 15	11. 37	·0990					
13. 42	26. 0	12. 12	·0997					
15. 42	42. 0	12. 36	·0983					
23. 45	44. 0	13. 14	·1030					
		13. 32	·1000					
		13. 50	·1016					
		23. 30	·0990					
		Feb.23		Feb.23				
Feb.23								
2. 13	22. 50. 0	1. 0	·0991	0. 30	·01200	1	50 ·0	50 ·5
10. 37	32. 45	6. 22	·1030	4. 33	·00905	3	54 ·0	54 ·5
	***							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Feb. 23		Feb. 23		Feb. 23				
h m	° ′ ″	h m		h m			°	°
23. 42	22. 47. 0	7. 41	·1006	7. 0:	·00930	9	52·0	52·0
		8. 23	·1022	10. 0	·00882	21	45·0	45·5
		10. 54	·0996	16. 25	·01200			
		19. 0:	·1033	23. 45	·01185			
		22. 55	·1003					
Feb. 24		Feb. 24		Feb. 24				
1. 22	22. 52. 30	0. 20	·0998	0. 0	·01190	1	48·0	48·5
8. 13	36. 45	7. 18	·1037	6. 40	·00843	3	50·0	50·5
23. 30	45. 15	9. 0	·1015	11. 0	·00828	9	49·5	49·5
		17. 20	·1043	19. 45	·01166	22	44·0	44·0
		23. 37	·1009	23. 30	·01140			
Feb. 25		Feb. 25		Feb. 25				
1. 27	22. 55. 30	0. 0	·1008	0. 0	·01140	0	45·5	45·5
21. 55	38. 0	19. 30:	·1043	8. 0	·00775	6	49·5	49·5
23. 38	46. 0	23. 28	·1006	8. 45:	·01135	9	47·0	47·0
				22. 50:	·01080	21	44·0	44·0
Feb. 26		Feb. 26		Feb. 26				
1. 50	22. 52. 30	0. 27	·1007	0. 0	·01085	1	45·8	45·8
10. 0	43. 30	6. 30	·1044	2. 10	·01113	3	50·0	50·0
10. 49	22. 45	10. 25	·1030	3. 45	·01030	9	49·0	49·0
12. 8	37. 0	11. 0	·1051		(†)	21	39·0	39·0
17. 25	43. 0	11. 18	·1029	9. 38	·00740			
21. 30	37. 45	13. 7	·1020	16. 25	·01115			
23. 40	48. 0	20. 7	·1046	23. 15	·01010			
		22. 32	·1020					
Feb. 27		Feb. 27		Feb. 27				
0. 0	22. 48. 45	0. 22	·1005	0. 0	·01015	1	43·0	43·5
0. 45	58. 15	0. 43	·1036	4. 32	·00782	3	49·0	49·5
1. 18	52. 0	1. 37	·1011	7. 20	·00890	9	49·8	49·8
5. 19	55. 30	3. 30	·1039	7. 37	·01020	21	43·0	43·0
6. 53	22. 40. 45	5. 25	·1017	8. 35	·00854			
7. 18	23. 0. 15	6. 52	·1022	10. 45	·00805			
8. 1	22. 23. 45	7. 0	·1056	11. 7	·00704			
8. 12	29. 0	7. 33	·0991	23. 30	·01148			
8. 18	25. 30	7. 38	·1013					
8. 31	38. 0	7. 43	·0977					
8. 38	30. 0	8. 25	·1009					
9. 8	39. 30	8. 37	·0985					
10. 43	38. 0	8. 42	·1005					
11. 18	28. 15	9. 52	·0987					
12. 0	31. 0	11. 2	·1023					
12. 38	28. 0	11. 25	·0991					
12. 40	27. 30	11. 40	·1001					
13. 37	46. 0	12. 18	·0984					
14. 48	49. 30	17. 55	·1016					
16. 10	40. 30	18. 37	·1045					
17. 55	59. 0	20. 52	·1007					
21. 35	44. 30							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Feb. 27		Feb. 27						
h m	° ′ ″	h m		h m			°	°
23. 45	22. 52. 15	21. 53	·1023					
		22. 58	·1004					
Feb. 28		Feb. 28		Feb. 28				
1. 36	22. 54. 15	0. 50	·0991	0. 0	·01120	1	46·0	46·5
9. 17	44. 0	4. 2	·1026	9. 28	·00680	3	48·3	48·3
	***	4. 38	·1003	15. 0	·01070	9	48·0	48·0
21. 9	41. 15	19. 28:	·1042	23. 30	·01018	21	41·0	41·0
23. 42	50. 0	23. 33	·1010					
Mar. 1		Mar. 1		Mar. 1				
0. 45	22. 55. 0	0. 38	·1009	0. 15	·01002	1	42·8	43·0
21. 38	38. 45	2. 37	·1026	9. 29	·00650	3	46·0	46·0
23. 48	48. 30	2. 53	·1011	23. 5	·00840	9	48·0	48·5
		3. 37	·1027			21	44·5	44·5
		4. 30	·1013					
		18. 54	·1039					
		23. 36	·1000					
Mar. 2		Mar. 2		Mar. 2				
1. 37	22. 52. 15	0. 20	·0993	0. 0	·00825	1	48·0	48·0
9. 27	37. 40	11. 52	·1034	2. 15	·00684	3	51·5	51·5
11. 48	41. 30	12. 24	·1020	4. 48	·00900	9	54·0	54·0
11. 56	45. 0	12. 52	·1056	13. 20:	·00750	21	46·0	46·0
12. 30	43. 0	14. 13	·1023	23. 15	·00740			
12. 47	39. 0	19. 22	·1035					
17. 0	44. 30	22. 53	·1002					
21. 10	39. 0							
23. 38	47. 30							
Mar. 3		Mar. 3		Mar. 3				
0. 0	22. 47. 45	1. 7	·0998	0. 0	·01182	1	49·0	49·0
3. 0	54. 0	14. 30	·1040	4. 38	·00890	3	53·0	53·0
7. 50	39. 45	17. 22	·1020	18. 0	·01002	9	53·0	53·0
14. 8	41. 45	18. 55	·1037	23. 30	·01030	22	51·0	51·0
14. 30:	47. 45	23. 15	·0998					
15. 13	41. 30							
20. 55	38. 15							
23. 54	50. 0							
Mar. 4		Mar. 4		Mar. 4				
2. 33	22. 58. 0	1. 0	·0990	0. 5	·01268	0	53·0	53·5
9. 2	33. 30	2. 34	·1006	4. 20	·00968	5	58·0	58·5
	***	2. 56	·0988	5. 30	·01008	9	55·0	55·0
12. 54	42. 15	5. 42	·1019	7. 0	·00962	21	46·0	46·5
	***	7. 37	·1001	9. 38	·01130			
13. 20	39. 0	13. 50	·1040	23. 15	·00900			
	***	16. 13	·1024					
13. 58	46. 15	18. 44	·1041					
	***	23. 44	·1007					

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The time of reading the thermometers is the hour specified in Greenwich Time, or the hour increased by 40^m in Göttingen Time.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Mar. 4								
h m	° ′ ″	h m		h m			°	°
18. 38	22. 38. 30							
	***							
23. 42	49. 45							
Mar. 5		Mar. 5		Mar. 5				
2. 16	22. 54. 0	1. 30	·1005	0. 0	·01185	1	50 ·0	50 ·0
15. 30	***	19. 13:	·1037	5. 12	·00855	3	54 ·0	54 ·0
21. 0	40. 15	23. 0	·1011	19. 30	·01240	9	55 ·0	55 ·5
	***			23. 40	·01195	21	48 ·0	48 ·0
23. 25	46. 0							
Mar. 6		Mar. 6		Mar. 6				
1. 52	22. 50. 30	0. 27	·1005	0. 0	·01185	1	49 ·0	49 ·5
10. 1	43. 0	2. 12	·1001	4. 30	·00875	3	55 ·0	55 ·0
10. 57	33. 30	11. 32	·1043	6. 15:	·00895	9	56 ·0	56 ·0
11. 30	46. 30	11. 57	·1025	9. 0	·00860	21	49 ·0	49 ·0
12. 7	38. 0	17. 10:	·1041	11. 30	·01032			
13. 3	46. 30	23. 37	·1009	17. 30:	·00900			
14. 12	38. 0			23. 30	·00885			
15. 40	43. 30							
17. 15	36. 0							
23. 40	46. 0							
Mar. 7		Mar. 7		Mar. 7				
0. 40	22. 50. 45	0. 28	·1011	0. 0	·01160	1	52 ·0	52 ·0
21. 38	37. 30	19. 12:	·1037	4. 55	·00795	3	55 ·0	55 ·0
23. 45	47. 45	22. 51	·1014	8. 40	·00780	9	55 ·0	55 ·0
				20. 30	·01240	21	47 ·0	47 ·5
				23. 30	·01170			
Mar. 8		Mar. 8		Mar. 8				
1. 47	22. 53. 0	0. 13	·1014	0. 20	·01160	1	50 ·5	50 ·0
9. 44	43. 45	2. 0	·1030	8. 15:	·00872	3	50 ·0	50 ·5
9. 54	33. 0	2. 32	·1011	13. 8	·01162	9	51 ·0	51 ·0
10. 20:	32. 0	4. 20	·1028	23. 40	·00965	21	39 ·0	39 ·0
11. 12	37. 15	5. 0	·1012					
23. 25	48. 30	19. 55	·1047					
		23. 15	·1023					
Mar. 9		Mar. 9		Mar. 9				
0. 43	22. 57. 0	0. 0	·1026	3. 14	·00272	1	44 ·0	44 ·5
8. 53	37. 45	2. 0	·1048	4. 12	·00205	3	46 ·0	46 ·0
23. 50	50. 0	2. 51	·1037	5. 10	·00240	9	44 ·0	44 ·0
		3. 30	·1049	9. 15	·00145	21	38 ·0	38 ·0
		5. 35	·1030	19. 8	·00370			
		19. 40:	·1044	22. 50	·00285			
		23. 0	·1013					
Mar. 10		Mar. 10		Mar. 10				
2. 16	22. 54. 15	0. 20	·1020	1. 3	·00134	1	43 ·0	43 ·0
Mar. 10		Mar. 10		Mar. 10				
h m	° ′ ″	h m		h m			°	°
9. 17	22. 37. 45	18. 30:	·1045	3. 10	·00235	3	46 ·0	46 ·0
23. 55	48. 0	23. 20	·1002	3. 40	·00214	9	48 ·0	48 ·0
				4. 42	·00262	22	41 ·0	41 ·5
				8. 56	·00220			
				23. 25	·00296			
Mar. 11		Mar. 11		Mar. 11				
2. 12	22. 54. 15	0. 56	·1009	0. 0	·00410	0	41 ·0	41 ·0
8. 45	37. 30	18. 8:	·1048	5. 40	·00220	3	45 ·0	45 ·0
23. 48	49. 0	23. 18	·1009	11. 0:	·00182	9	44 ·0	44 ·0
				22. 20	·00278	21	45 ·0	45 ·0
Mar. 12		Mar. 12		Mar. 12				
1. 54	22. 53. 45	0. 25	·1013	0. 30	·00350	1	49 ·0	49 ·5
9. 18	37. 30	6. 45	·1045	5. 10	·00492	3	51 ·0	51 ·0
23. 41	45. 30	10. 35	·1029	23. 5	·00590	9	53 ·0	53 ·0
		17. 38:	·1037			21	50 ·0	50 ·0
		23. 30	·1011					
Mar. 13		Mar. 13		Mar. 13				
0. 55	22. 53. 30	1. 35	·1007	0. 0	·00588	1	54 ·0	54 ·0
21. 10	38. 30	19. 17	·1047	3. 40	·00505	3	55 ·0	55 ·5
23. 45	45. 30	23. 37	·1021	12. 32	·00662	9	53 ·0	53 ·0
				23. 30	·00502	21	45 ·0	45 ·0
Mar. 14		Mar. 14		Mar. 14				
2. 54	22. 50. 45	0. 50	·1019	0. 0	·00510	1	48 ·0	48 ·5
10. 32	43. 30	8. 13	·1044	3. 30	·00550	3	50 ·0	50 ·0
11. 0	33. 45	11. 20	·1027	6. 45	·00370	9	51 ·0	51 ·0
12. 0	41. 0	18. 25	·1043	23. 30	·00450	21	50 ·0	50 ·0
17. 24	43. 15	23. 45	·1012					
20. 33	36. 45							
23. 55	44. 45							
Mar. 15		Mar. 15		Mar. 15				
2. 55	22. 52. 15	0. 5	·1011	0. 0	·00450	1	50 ·0	50 ·0
12. 14	35. 15	2. 45	·1043	4. 50	·00432	3	52 ·0	52 ·0
17. 54	42. 30	6. 36	·1019	7. 30	·00490	9	53 ·0	53 ·0
21. 0	38. 30	11. 45	·1046	12. 35	·00420	21	51 ·0	51 ·0
23. 50	45. 30	23. 18	·1009	22. 10	·00670			
				23. 30	·00647			
Mar. 16		Mar. 16		Mar. 16				
0. 0	22. 45. 45	0. 55	·1014	0. 0	·00647	1	53 ·0	53 ·0
2. 17	50. 30	10. 40:	·1036	3. 52	·00488	3	56 ·0	56 ·0
9. 23	42. 15	15. 28:	·1031	16. 15	·00700	9	56 ·0	56 ·0
		19. 20:	·1040	23. 30	·00560	21	49 ·0	49 ·0
		23. 18	·1016					
Mar. 17		Mar. 17		Mar. 17				
1. 36	22. 51. 45	0. 22	·1019	0. 0	·00550	1	50 ·0	50 ·0
9. 56	41. 45	2. 25	·1013	1. 50	·00595	3	58 ·0	58 ·0

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Mar. 17		Mar. 17		Mar. 17				
h m	° ′ ″	h m		h m			°	°
10. 35	22. 33. 30	10. 28	·1038	3. 16	·00490	9	56 ·0	56 ·0
11. 40	37. 45	11. 28	·1017	5. 10	·00560			
12. 45	28. 30	12. 28	·1035	10. 9	·00475			
13. 57	37. 15	12. 55	·1014	11. 45	·00522			
15. 0	25. 0	14. 37	·1037	12. 35	·00535			
17. 0:	34. 30	16. 42	·1023	13. 25	·00605			
	***	17. 54	·1055	13. 45	·00575			
23. 40	49. 15	18. 50	·1040	23. 30	·00497			
		19. 30	·1053					
		23. 5	·1014					
Mar. 18		Mar. 18		Mar. 18				
1. 23	22. 52. 30	0. 30	·1013	0. 0	·00490	0	48 ·0	48 ·0
9. 56	30. 30	1. 1	·1026	3. 45	·00580	3	48 ·0	48 ·0
10. 16	35. 15	1. 35	·1007	10. 35	·00350	9	48 ·0	48 ·5
10. 24	29. 15	2. 12	·1027	14. 45	·00396	21	46 ·0	46 ·0
10. 40	36. 15	2. 28	·1016	14. 55	·00372			
11. 0	31. 45	4. 38	·1043	15. 11	·00420			
12. 10	36. 45	9. 22	·1039	20. 0	·00555			
14. 20	27. 0	9. 37	·1057	23. 30	·00537			
15. 8	38. 30	9. 44	·1032					
15. 52	34. 45	10. 2	·1049					
16. 30	43. 30	11. 48	·1006					
16. 52	37. 30	12. 43	·1023					
18. 50	43. 45	13. 45	·1006					
20. 8	37. 45	17. 53	·1038					
23. 33	47. 45	23. 2	·1009					
Mar. 19		Mar. 19		Mar. 19				
2. 30	22. 52. 30	0. 10	·1023	0. 30	·00555	1	46 ·0	46 ·0
11. 5	36. 30	2. 3	·1041	3. 11	·00590	3	50 ·0	50 ·0
13. 45	42. 30	5. 35	·1021	6. 20	·00392	9	50 ·0	56 ·0
17. 45	38. 0	6. 37	·1035	11. 8	·00338	21	45 ·0	45 ·0
23. 50	46. 30	9. 7	·1015	17. 40	·00575			
		9. 41	·1025	23. 55	·00535			
		10. 10	·1016					
		18. 0:	·1034					
		23. 8:	·1012					
Mar. 20		Mar. 20		Mar. 20				
2. 29	22. 50. 0	0. 22	·1019	0. 0	·00545	1	49 ·0	49 ·0
9. 37	40. 30	4. 30	·1014	4. 55	·00395	3	53 ·0	53 ·0
9. 53	31. 0	5. 30	·1038	10. 15	·00355	9	52 ·0	52 ·0
10. 10	42. 30	6. 20	·1023	15. 30	·00594	21	44 ·0	44 ·0
10. 27	36. 45	7. 8	·1037	23. 30	·00490			
11. 8	43. 0	9. 37	·1021					
11. 36	37. 15	10. 0	·1049					
13. 4	43. 0	10. 24	·1008					
14. 20	39. 15	11. 36	·1032					
15. 8	49. 0	11. 53	·1023					
16. 10	40. 30	17. 50:	·1036					

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Mar. 20		Mar. 20						
h m	° ′ ″	h m		h m			°	°
21. 38	22. 39. 30	23. 55	·1009					
23. 55	50. 0							
Mar. 21		Mar. 21		Mar. 21				
2. 0	22. 54. 0	1. 0	·1013	0. 15	·00506	1	46 ·0	46 ·0
9. 26	41. 30	10. 40:	·1043	5. 10	·00330	3	53 ·5	53 ·5
	***	23. 6	·1010	8. 0	·00350	9	53 ·0	53 ·0
10. 0	36. 0			11. 15	·00285	21	44 ·0	44 ·0
	***			16. 5	·00590			
11. 0	41. 45			23. 55	·00500			
	***							
12. 53	36. 0							
	***							
15. 35	40. 0							
23. 53	50. 0							
Mar. 22		Mar. 22		Mar. 22				
1. 40	22. 56. 30	1. 7	·1005	0. 0	·00495	1	45 ·0	45 ·0
20. 37	36. 0	1. 20	·1023	4. 30	·00530	3	46 ·5	47 ·0
23. 54	47. 0	2. 20	·1013	10. 36:	·00323	9	47 ·5	47 ·0
		8. 10	·1043	17. 45	·00520	21	44 ·5	44 ·5
		23. 30	·1012	23. 30	·00475			
Mar. 23		Mar. 23		Mar. 23				
1. 56	22. 53. 0	0. 42	·1018	0. 0	·00475	1	45 ·0	45 ·0
10. 0	42. 0	7. 40	·1042	6. 40	·00232	3	47 ·0	47 ·0
	***	10. 0	·1037	19. 52	·00517	9	48 ·0	48 ·0
21. 15	35. 0	18. 18:	·1044	23. 30	·00433	21	43 ·0	43 ·0
23. 55	48. 0	22. 52	·1017					
Mar. 24		Mar. 24		Mar. 24				
2. 49	22. 52. 15	0. 10	·1027	0. 0	·00420	1	46 ·0	46 ·0
9. 56	40. 30	4. 25	·1047	2. 49	·00462	3	49 ·0	49 ·5
	***	6. 30	·1025		(†)	9	48 ·0	48 ·0
20. 0	33. 0	7. 52	·1040	10. 0	·00175	22	38 ·0	38 ·0
20. 52	36. 0	9. 32	·1023	15. 15	·00470			
21. 30	33. 30	12. 7	·1044	23. 8	·00380			
23. 54	46. 45	18. 8:	·1054					
		21. 35	·1016					
		23. 52	·1034					
Mar. 25		Mar. 25		Mar. 25				
2. 44	22. 52. 30	0. 25	·1036	1. 0	·00342	1	39 ·0	39 ·0
7. 13	44. 30	6. 36	·1079	14. 18	·00016	9	42 ·0	42 ·0
7. 38	48. 45	7. 50	·1031	23. 30	·00278	21	39 ·0	39 ·0
8. 2	44. 30	13. 12	·1063					
9. 36	37. 15	13. 50	·1051					
13. 5	48. 0	14. 5	·1066					
14. 37	40. 0	23. 0	·1020					
23. 45	49. 0							

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Mar.26		Mar.26		Mar.26				
h m	° ′ ″	h m		h m			°	°
0.15	22.50. 0	0.30	·1024	0.30	·00090	1	41·0	41·0
3.19	52. 0	3.22	·1044	2. 7	·00070	3	45·0	45·0
4.20	46. 0	3.54	·1023	7.30	·00220	9	46·0	46·0
9.30	39. 0	6. 7	·1055	14.30	·00160	21	41·0	41·5
12.20:	40.30	15.27	·1045	23.30	·00488			
13.22:	45. 0	17.40	·1046					
15.15	35. 0	19.48	·1044					
23.40	46. 0	21.45	·1027					
		23.45	·1009					
Mar.27		Mar.27		Mar.27				
1.57	22.52.15	0. 4	·1006	0. 0	·00400	1	45·0	45·0
11.43	40. 0	6.11	·1033	4.42	·00218	3	50·0	50·0
12. 8	43.30	6.15	·1071	8. 0	·00270	9	50·0	50·0
12.40	35. 0	6.45	·1045	19.40	·00490	21	43·5	43·5
14.10	42. 0	11.58	·1032	23.30	·00465			
20.50	35. 0	16.30	·1041					
23.40	46.45		(†)					
		21.54	·1025					
		23.40	·1012					
Mar.28		Mar.28		Mar.28				
1.42	22.55.15	0.40	·1008	0.30	·00490	1	45·0	45·0
7.18	35. 0	5.53	·1041	2.45	·00510	3	47·0	47·0
7.53	38. 0	8.20	·1022	10.20	·00150	9	47·0	47·0
8.18	34.15	9.38	·1050	11.20	·00180	21	43·0	43·0
8.58	38.30	11. 0	·1008	12.35	·00135			
9.25	33. 0	11.37	·1050	22.10	·00542			
9.40	37. 0	16. 3	·1027	23.25	·00515			
	(†)	19.30	·1038					
16. 0	47.30	23. 7	·1013					
21. 8	33.45	23.55	·1020					
23.55	44. 0							
Mar.29		Mar.29		Mar.29				
2.15	22.48.15	0.45	·1014	0.30	·00515	1	47·0	47·0
10. 0	43. 0	5.20:	·1039	6. 0	·00264	3	53·0	53·0
	***	11.48	·1030	11. 7	·00227	9	50·0	50·0
17.50	41. 0	18.40:	·1042	18.30	·00582	21	43·0	43·0
20. 8	36.15	23.38	·1010	23.30	·00538			
23.54	50.30							
Mar.30		Mar.30		Mar.30				
2. 0	22.54.45	0. 8	·1014	0.30	·00535	1	47·0	47·5
15. 8	38.45	1.20	·1035	5. 0	·00330	3	50·0	50·0
15.38	52.45	2.18	·1018	12.30	·00285	9	53·0	53·0
16.30	27. 0	3.24	·1038	15.25	·00308	21	48·0	48·0
16.58	37. 0	3.48	·1024	16. 6	·00218			
23.50	49.15	4.25	·1053	23.30	·00655			
		5.51	·1004					
		12. 2	·1037					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
		Mar.30						
h m	° ′ ″	h m		h m			°	°
		16. 6	·1028					
		22.40:	·1001					
Mar.31		Mar.31		Mar.31				
1. 3	22.51.30	0.10	·1003	0.30	·00632	1	51·0	51·0
9.26	44. 0	18.50	·1039	3. 4	·00378	3	57·0	57·0
	***	23.40	·1008	5.20	·00428	9	55·0	55·0
21. 7	37. 0			5.26	·00550	22	48·0	48·0
23.37	46.45			7.18	·00426			
				7.22	·00530			
				10.30	·00390			
				17. 5	·00711			
				23.45	·00614			
Apr. 1		Apr. 1		Apr. 1				
2. 0	22.55.30	0.25	·1012	0. 0	·00617	1	49·0	49·0
12.10	43. 0	1.48	·1020	2.33	·00692	11	52·0	52·0
	***	3.54	·0999	10.22:	·00325	21	47·0	47·0
20.58	32. 0	18.58	·1039	19. 5	·00654			
	***	23. 7	·0988	22.25	·00600			
23.40	49.15			23.30	·00628			
Apr. 2		Apr. 2		Apr. 2				
2.42	22.53. 0	0.33	·1001	0. 8	·00625	1	53·0	53·5
8.30	43.15	7.55	·1047	5. 0	·00368	3	55·0	55·0
	***	9.26	·1028	5.55	·00390	9	53·0	53·0
9.36	30.15	9.45	·1051	9.26	·00328	21	43·0	43·0
	***	11. 8	·1027	16. 8	·00585			
11. 0	43.15	14.12	·1048	23.30	·00502			
	***	15.30	·1023					
13.22	42. 0	16.45	·1057					
	***	23.24	·0999					
14.52:	33. 0							
	***							
16. 7	43.15							
	***							
19.24	38.15							
	***							
23.40	52.30							
Apr. 3		Apr. 3		Apr. 3				
1.25	22.55.45	0.24	·1013	0. 0	·00540	1	50·0	50·0
6.13	37.45	4. 0	·1036	0.45	·00560	3	55·0	55·0
23.56	51.15	4.40	·1018	4.10	·00350	9	53·0	53·0
		6.10	·1052	6.15	·00380	21	46·0	46·0
		7.45	·1029	9.20	·00305			
		10.55	·1043	16.55	·00620			
		22.53	·1012	23.30	·00572			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Apr. 4		Apr. 4		Apr. 4				
h m	° ′ ″	h m		h m			°	°
1. 42	22. 52. 45	0. 0	(†)	0. 45	·00555	1	52 ·0	52 ·5
8. 40	44. 45	10. 37	·1032	3. 0	·00313	3	58 ·0	58 ·0
	***	11. 0	·1075		(†)	9	56 ·0	56 ·0
9. 40	32. 30	11. 24	·1037			21	49 ·0	49 ·0
	***	13. 33	·1063					
9. 50	45. 0	14. 50	·1043					
	***	22. 3	·1015					
10. 37	24. 15	23. 50	·1026					
	***							
11. 7	38. 0							
	***							
13. 0	38. 0							
	***							
13. 33	43. 45							
	***							
13. 55	34. 30							
	***							
23. 47	52. 30							
Apr. 5		Apr. 5		Apr. 5				
0. 55	22. 52. 45	1. 20	·1010	0. 30	·00712	1	51 ·0	51 ·0
20. 42	34. 0	10. 50	·1027	4. 15	·00468	3	56 ·0	56 ·0
23. 47	48. 0	11. 7	·1045	5. 8	·00497	9	56 ·0	56 ·0
		11. 56	·1026	8. 30	·00450	23	48 ·0	48 ·0
		18. 45:	·1042	11. 45	·00590			
		23. 30	·0997	23. 45	·00408			
Apr. 6		Apr. 6		Apr. 6				
1. 50	22. 54. 0	0. 0	·0996	0. 0	·00604	0	52 ·0	52 ·0
10. 45	40. 30	5. 55	·1025	3. 2	·00360	9	59 ·0	59 ·0
	***	6. 22	·1042	7. 0	·00480	21	51 ·0	51 ·0
21. 38	33. 30	7. 12	·1027	10. 15	·00430			
23. 55	51. 0	9. 55	·1036	14. 6	·00790			
		10. 40	·1024	23. 30	·00652			
		18. 45:	·1035					
		23. 7	·0987					
Apr. 7		Apr. 7		Apr. 7				
2. 16	22. 58 ·15	0. 10	·0985	1. 0	·00645	1	52 ·0	52 ·5
21. 0	33 ·45	8. 12	·1039	5. 45	·00415	3	55 ·0	55 ·0
23. 45	48 ·15	9. 24	·1026	10. 0:	·00380	9	57 ·0	57 ·0
		15. 30	·1036	15. 28	·00710	22	49 ·0	49 ·0
			(†)	23. 30:	·00625			
		23. 10	·1000					
		23. 48	·1004					
Apr. 8		Apr. 8		Apr. 8				
2. 6	22. 52. 45	0. 15	·1004	0. 5	·00618	0	50 ·0	50 ·0
12. 37	40. 30	8. 20	·1045	7. 15	·00310	9	53 ·5	53 ·5
	***	11. 18:	·1036	10. 45	·00292	21	48 ·0	48 ·0
20. 30	34. 15							

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Apr. 8		Apr. 8		Apr. 8				
h m	° ′ ″	h m		h m			°	°
23. 55	22. 49. 0	18. 3	·1053	16. 40	·00660			
		23. 20	·1014	23. 30	·00550			
Apr. 9		Apr. 9		Apr. 9				
0. 50	22. 54. 0	0. 45	·1029	0. 30	·00558	1	49 ·0	49 ·0
10. 32	38. 30		(†)	10. 50	·00245	3	52 ·5	52 ·5
12. 32	45. 0	9. 50	·1040	19. 15	·00652	9	53 ·0	53 ·0
20. 15	35. 0	11. 40	·1039	23. 52	·00580	21	48 ·5	48 ·5
23. 43	47. 45	12. 0	·1059					
		23. 15	·1013					
Apr. 10		Apr. 10		Apr. 10				
1. 40	22. 53. 30	0. 0	·1015	0. 0	·00595	1	49 ·0	49 ·0
7. 10	44. 15	1. 30	·1032	4. 38	·00440	3	52 ·2	52 ·2
7. 40	37. 30	2. 10	·1014	7. 37	·00495	9	52 ·0	52 ·0
9. 9	41. 0	5. 45	·1052	9. 38	·00440	21	46 ·5	46 ·5
20. 40	34. 30	7. 33	·1033	16. 55	·00830			
23. 50	46. 45	16. 52:	·1052	22. 12	·00770			
		23. 0	·1013					
Apr. 11		Apr. 11		Apr. 11				
2. 36	22. 53. 45	0. 3	·1014	0. 0	·00360	1	48 ·0	48 ·0
9. 56	43. 0	18. 48:	·1064	9. 15	·00110	3	49 ·5	49 ·5
	***	23. 40	·1020	17. 5	·00550	9	49 ·0	49 ·0
19. 0	39. 30			21. 0	·00560	21	42 ·5	42 ·5
20. 55	34. 0			23. 30	·00450			
23. 38	45. 15							
Apr. 12		Apr. 12		Apr. 12				
1. 50	22. 53. 0	0. 0	·1019	0. 0:	·00270	1	45 ·0	45 ·0
9. 44	43. 0	2. 55	·1045	4. 10:	·00060	3	48 ·0	48 ·0
	***	3. 45	·1037	6. 30:	·00107	9	49 ·0	49 ·0
20. 48	35. 30	10. 12	·1055	10. 30:	·00095	21	45 ·0	45 ·0
23. 30	44. 45	23. 0	·1016	22. 30:	·00495			
Apr. 13		Apr. 13		Apr. 13				
1. 55	22. 54. 0	0. 15	·1016	2. 30	·01225	1	48 ·0	48 ·0
9. 28	42. 30	8. 0	·1072	4. 30	·01223	3	49 ·0	49 ·0
	**	8. 18	·1055	15. 52	·01415	9	49 ·0	49 ·0
12. 30	42. 15	12. 42	·1073	18. 0	·01360	21	44 ·5	44 ·5
	**	17. 0	·1045	23. 30	·01407			
15. 33	27. 30	17. 30	·1068					
	***	18. 10	·1048					
17. 15	40. 30	23. 55	·1000					
	***							
19. 12	39. 15							
19. 50	29. 15							
20. 23	40. 0							
23. 50	51. 0							

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Apr.14		Apr.14		Apr.14				
h m	° ′ ″	h m		h m			°	°
2. 3	22. 59. 15	0. 8	·1007	1. 30	·01160	1	49·0	
6. 8	47. 30	1. 12	·1027	15. 48	·01550	3	52·0	
6. 43	33. 30	1. 45	·1013	23. 15	·01440	9	53·0	
7. 35	41. 30	2. 0	·1031			23	44·0	
9. 30	41. 30	2. 40	·1004					
	***	3. 7	·1030					
20. 57	35. 30	3. 12	·1017					
23. 53	45. 30	4. 33	·1045					
		6. 22	·1025					
		6. 52	·1055					
		8. 33	·1037					
		18. 10:	·1055					
		23. 38	·1017					
Apr.15		Apr.15		Apr.15				
0. 0	(†)	0. 0	(†)	0. 0	(†)	9	45·0	
9. 40	22. 39. 16*	9. 40	·1066*	10. 0	·01430	21	43·0	
	(†)		(†)	10. 55	·01440			
21. 0	37. 0	21. 40	·1036	14. 30	·01405			
23. 45	48. 30	23. 32	·1017	18. 30	·01475			
				23. 50	·01400			
Apr.16		Apr.16		Apr.16				
2. 47	22. 52. 30	0. 0	·1019	0. 0	·01170	1	47·0	47·0
11. 45	34. 0	6. 15	·1056	1. 20	·01120	3	54·0	54·0
	***	10. 10	·1037	5. 10:	·01360	9	53·0	53·0
21. 35	38. 30	11. 10	·1057	10. 10	·01300	21	46·0	
23. 50	46. 0	11. 36	·1041	18. 30	·01570			
		15. 22	·1036	23. 30	·01520			
		16. 50	·1051					
			(†)					
		22. 1	·1023					
		23. 40	·1021					
Apr.17		Apr.17		Apr.17				
1. 12	22. 49. 0	0. 30	·1024	0. 15	·01518	1	48·0	48·0
7. 10	38. 30	1. 12	·1042	4. 50	·01280	3	51·0	51·0
	***	1. 40	·1028	8. 30	·01270	9	48·0	
8. 50	36. 0	7. 20	·1058	12. 55	·01500	21	40·5	
	***	9. 50	·1045	23. 55	·01340			
18. 0	39. 0	14. 32	·1071					
21. 17	34. 30	15. 33	·1055					
23. 55	47. 0	23. 10:	·1031					
Apr.18		Apr.18		Apr.18				
1. 17	22. 50. 15	0. 30	·1034	0. 15	·01340	1	45·0	45·0
7. 38	38. 0	6. 45	·1059	3. 10	·01120	3	50·0	50·0
8. 13	40. 30	7. 30	·1041	6. 38	·01318	9	49·0	49·0
9. 22	32. 30	9. 32	·1053	9. 45	·01220	21	42·5	
	***	18. 52	·1060	14. 50	·01362			
10. 8	39. 45	22. 23	·1036	23. 45	·01275			
	***							

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Apr.18								
h m	° ′ ″	h m		h m				
14. 48	22. 32. 30							
	***							
19. 55	36. 0							
23. 55	50. 45							
Apr.19		Apr.19		Apr.19				
1. 0	22. 53. 30	0. 0	(†)	0. 30	·01430	1	43·0	43·0
3. 6	49. 45	1. 40	·1049*	9. 36	·01440	3	45·0	45·0
	(†)		(†)	23. 55	·01240	9	45·0	45·0
9. 10	47. 15	3. 40	·1061*			21	39·0	
20. 15	34. 45		(†)					
23. 55	49. 30	9. 40	·1056*					
			(†)					
		21. 40	·1038					
		23. 55	(†)					
Apr.20		Apr.20		Apr.20				
1. 15	22. 52. 15	0. 43	·1043	1. 5	·01140	1	44·0	44·5
11. 4	40. 15	7. 40	·1066	2. 40	·01050	3	47·0	47·0
	***	14. 30	·1052	7. 40	·01220	9	49·0	49·0
15. 40	30. 0	18. 13	·1073	11. 30	·01175	21	41·0	
	***	23. 33	·1038	17. 5	·01470			
21. 10	33. 45			23. 30	·01350			
23. 50	44. 30							
Apr.21		Apr.21		Apr.21				
2. 58	22. 58. 15	0. 10	·1043	0. 0	·01350	1	43·0	43·0
9. 37	41. 30	2. 13	·1063	2. 42	·01380	3	47·0	47·0
10. 38:	32. 0	2. 20	·1040	5. 37	·01210	9	49·0	
11. 5	37. 45	2. 57	·1092	8. 30:	·01235	23	45·0	45·0
	***	4. 30	·1023	11. 40	·01185			
13. 40:	46. 0	5. 26	·1046	18. 35	·01515			
14. 52	38. 0	5. 40	·1031	23. 30	·01485			
17. 52	44. 30	7. 50	·1052					
20. 32	35. 45	9. 10	·1043					
23. 38	44. 45	18. 37	·1075					
		23. 0	·1027					
Apr.22		Apr.22		Apr.22				
10. 0	22. 43. 15	0. 0	(†)	0. 0	(†)	9	47·0	47·0
12. 43	37. 45	9. 15	·1064	10. 0	·01200	21	47·0	
15. 48	44. 0	17. 0	·1052	15. 10	·01140			
21. 12	35. 30	19. 37	·1055	21. 30	·01195			
23. 40	43. 0		(†)	23. 55	·01170			
		22. 38	·1028					
		23. 25	·1023					
Apr.23		Apr.23		Apr.23				
1. 45	22. 51. 30	1. 30	·1036	0. 30	·01162	1	49·0	49·0
20. 30	36. 0	8. 55	·1051	7. 0	·01325	3	53·0	53·0
23. 53	43. 30	10. 45	·1044	19. 30	·01630	9	52·0	52·0

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h m	° ′ ″	Apr.23 h m		Apr.23 h m			°	°
		18. 53:	·1057	23. 55	·01580	21	46·0	46·0
		23. 30	·1014					
Apr.24		Apr.24		Apr.24				
1. 40	22. 49. 0	0. 15	·1020	0. 30	·01565	1	50·0	50·0
19. 48	31. 45	1. 38	·1025	5. 7	·01305	3	55·0	55·0
20. 53	38. 15		(†)	7. 40	·01350	9	53·0	53·0
22. 0	33. 30	4. 14	·1036	11. 15	·01298	21	48·0	
23. 55	43. 30	16. 33	·1043	19. 10	·01700			
			(†)		(†)			
		21. 50	·1026	21. 33	·01710			
		23. 50	·1007	23. 55	·01605			
Apr.25		Apr.25		Apr.25				
2. 40	22. 51. 15	1. 0	·1013	0. 30	·01624	1	50·0	50·0
12. 25	37. 0	5. 0	·1047	4. 15	·01400	3	54·0	54·0
14. 40	47. 0	5. 45	·1034	6. 30	·01470	9	57·0	
19. 40	35. 45	6. 13	·1049	12. 15	·01380	21	50·5	
23. 52	48. 20	7. 0	·1031	18. 30	·01725			
		12. 0	·1043	23. 40	·01645			
		17. 8	·1029					
		18. 8	·1041					
		23. 0	·1007					
Apr.26		Apr.26		Apr.26				
1. 20	22. 52. 30	0. 0	·1020	0. 0	·01650	1	50·0	50·0
9. 31	42. 0	1. 8	·1002	2. 10	·01695	3	54·0	54·0
	***	2. 43	·1035	7. 10	·01425	9	54·0	54·0
12. 20	39. 0	4. 30	·1015	11. 40	·01365	21	48·5	
	***	5. 33	·1039	16. 35	·01675			
14. 30	44. 0	6. 22	·1025	23. 30	·01620			
	***	14. 40:	·1042					
15. 15	40. 0	23. 40	·0992					
	***							
15. 50	44. 0							
	***							
17. 45	36. 30							
	***							
19. 30	41. 0							
	***							
21. 10	37. 45							
23. 36	45. 0							
Apr.27		Apr.27		Apr.27				
1. 38	22. 50. 15	0. 43	·0997	1. 15	·01580	1	54·0	54·0
21. 15	35. 0	5. 0	·1025	2. 52	·01368	3	60·0	60·0
23. 55	43. 15	6. 12	·1015	6. 45	·01635	9	58·0	
		11. 0	·1032	7. 20	·01714	21	52·5	
		23. 30	·0994	8. 30	·01650			
				11. 20	·01715			
				23. 0	(†)			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Apr.28 h m	° ′ ″	Apr.28 h m		Apr.28 h m			°	°
2. 8	22. 49. 30	0. 54	·0994	2. 25	·01520	1	55·0	55·0
19. 17	36. 30	4. 52	·1031	4. 0	·01450	3	59·0	59·0
23. 53	46. 30	6. 0	·1020	6. 30	·01488	9	57·5	
		15. 32	·1035	10. 0	·01460	23	53·0	
		23. 7	·0993		(†)			
Apr.29		Apr.29		Apr.29				
0. 0	(†)	0. 0	(†)	0. 0	(†)	9	58·0	
9. 50	22. 42. 0	10. 38	·1017	10. 0:	·01435	21	55·0	55·0
16. 37	41. 0	17. 6	·1028	11. 10:	·01468			
16. 52	46. 0	23. 48	·0988	13. 40:	·01455			
17. 38	40. 0			19. 55:	·01675			
20. 13	35. 45			23. 55:	(†)			
23. 50	44. 0							
Apr.30		Apr.30		Apr.30				
2. 8	22. 49. 30	1. 10	·0985	1. 45	·01320	1	61·0	61·0
10. 4	40. 15	10. 20	·1019	3. 6	·01335	3	65·0	65·0
	***	14. 10	·1014	5. 45	·01210	9	65·0	65·0
18. 27	32. 15	15. 13	·1026	9. 0	·01400	21	51·0	51·0
	***	23. 30	·0980	22. 50	·01060			
18. 55	37. 15							
	***							
19. 15	33. 0							
	***							
19. 23	37. 0							
	***							
19. 44	30. 30							
	***							
20. 8	37. 0							
	***							
20. 20	32. 0							
23. 55	45. 0							
May 1		May 1		May 1				
1. 34	22. 50. 30	1. 48	·0994	0. 30	·01250	1	56·0	56·0
10. 50	35. 30	7. 46	·1028	3. 30	·01035	3	60·0	60·0
16. 15	41. 30	10. 40	·1006	7. 42	·01167	9	61·0	
19. 54	33. 0	12. 52	·1024	10. 33	·01082	21	54·0	
23. 45	46. 30	23. 30	·0996	16. 25	·01400			
				22. 40	·01242			
May 2		May 2		May 2				
0. 6	22. 47. 0	0. 0	·0994	0. 0	·01265	1	56·0	56·0
11. 9	41. 15	6. 3	·1030	4. 10	·01035	3	59·0	59·0
11. 32	48. 0	11. 3	·1020	8. 10	·01170	9	63·0	63·0
12. 14	36. 30	11. 24	·1035	11. 45	·01080	21	56·0	
20. 45	33. 0	11. 42	·1020	18. 5	·01458			
23. 50	46. 45	18. 0	·1025	23. 45	·01405			
		23. 7	·0996					

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

The time of reading the thermometers is the hour specified in Greenwich Time, or the hour increased by 40^{m} in Gottingen Time.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
May 3		May 3		May 3				
h m	° ′ ″	h m		h m			°	°
2. 7	22. 50. 0	0. 0	(†)	0. 0	·01394	1	60 ·0	60 ·0
9. 26	39. 0	1. 40	·0990*	2. 7	·01170	3	66 ·0	66 ·0
	(†)		(†)	5. 25	·01310	9	67 ·5	
22. 3	36. 30	3. 40	·0992*	9. 36	·01200	21	59 ·0	
23. 45	46. 0		(†)	13. 38	·01525			
		9. 40	·1008*	23. 30	·01330			
			(†)					
		21. 45	·1002*					
		23. 55	(†)					
May 4		May 4		May 4				
1. 53	22. 48. 30	1. 8	·0990	0. 15	·01238	1	65 0	65 ·0
10. 30	39. 30	3. 0	·0981	1. 23	·01042	3	70 ·0	70 ·0
11. 50	31. 30	7. 6	·1012	5. 8	·01223	9	72 ·0	72 ·0
13. 12	39. 15	8. 54	·0996	8. 30	·01122	21	62 ·0	
21. 45	32. 30	9. 3	·1020	11. 10	·01515			
23. 40	46. 0	9. 18	·1004	23. 45	·01275			
		10 36	·1013					
		12. 0	·0984					
		13. 12	·1014					
		13. 45	·0996					
		14. 20	·1014					
		15. 7	·0997					
		18. 10:	·1007					
		22. 40	·0973					
May 5		May 5		May 5				
1. 23	22. 49. 0	1. 40	·0980	0. 30	·01208	1	69 ·0	69 ·0
8. 0	38. 5	17. 48	·1014	1. 55	·00990	3	70 ·0	70 ·0
17. 0	37. 30	22. 15	·0990	6. 0	·01140	9	69 ·0	56 ·0
23. 55	(†)			8. 15	·01122	23	56 ·0	
				10. 12	·01500			
				22. 25	·01215			
May 6		May 6		May 6				
0. 0	(†)	0. 0	(†)	0. 0	(†)	9	61 ·0	61 ·0
9. 45	22. 40. 0	10. 28	·1026	9. 30	·00765	21	53 ·0	53 ·0
	***	15. 20	·1027	16. 18	·01132			
15. 40	39. 0	16. 8	·0996	16. 30	·01104			
	***	16. 38	·1035	18. 30	·01150			
16. 15	54. 15	23. 30	·0992	22. 35	·01105			
	***	23. 52	·1029	23. 50	·01148			
17. 0	36. 30							
	***							
18. 32	32. 20							
	***							
23. 50	51. 0							
May 7		May 7		May 7				
2. 2	22. 56. 0	0. 38	·1009	1. 0	·00935	1	53 ·0	53 ·0
8. 20	35. 0	0. 50	·1021	5. 0	·00990	3	55 ·0	55 ·0
9. 55	41. 0	1. 42	·0998	10. 30	·00700	9	57 ·0	
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
May 7		May 7		May 7				
h m	° ′ ″	h m		h m			°	°
10. 52	22. 31. 0	2. 10	·1025	16. 20	·01128	21	50 ·0	50 ·0
	***	2. 38	·0974	23. 45	·01035			
11. 40	41. 30	3. 47	·1029					
	***	4. 7	·1002					
14. 55	45. 0	5. 4	·1039					
	***	8. 55	·1003					
20. 25	34. 15	11. 8	·1027					
23. 52	45. 30	11. 48	·1010					
		17. 22:	·1024					
		22. 50:	·0996					
May 8		May 8		May 8				
1. 15	22. 48. 0	0. 40	·0995	0. 30	·00850	1	53 ·0	53 ·0
15. 0	29. 30	15. 54:	·1027	3. 14	·00682	3	56 ·8	
23. 53	49. 0	21. 50	·0991	6. 0	·00768	9	56 ·0	56 ·0
		23. 30	·0993	9. 30	·00730	21	48 ·5	
				16. 38	·01118			
				23. 0	·01080			
May 9		May 9		May 9				
1. 30	22. 50. 0	0. 18	·0993	0. 0	·00925	1	50 ·0	50 ·0
20. 52	33. 30	18. 15:	·1027	10. 15	·00613	3	52 ·0	52 ·0
23. 40	42. 0	23. 25	·1004	20. 15	·01035	9	53 ·0	
				23. 0	·00950	21	48 ·0	
May10		May10		May10				
2. 0	22. 48. 15	0. 0	·1007	0. 0	·00782	1	50 ·0	50 ·0
11. 15	38. 45	6. 10	·1034	6. 32	·00585	3	51 ·0	51 ·0
15. 20	42. 0	22. 15	·1013	20. 0	·00840	9	51 ·0	51 ·0
20. 30	37. 15			23. 30	·00742	21	48 ·5	
23. 43	43. 30							
May11		May11		May11				
0. 0	(†)	0. 0	(†)	0. 0	(†)	1	50 ·0	50 ·0
1. 40	22. 45. 48*	1. 40	·1018	4. 5	·00652	3	55 ·0	55 ·0
	(†)		(†)	8. 30	·00750	9	55 ·0	
3. 40	46. 23*	3. 40	·1017	11. 30	·00680	21	49 ·5	
	(†)		(†)	17. 52	·01142			
9. 40	40. 16*	9. 40	·1022	23. 30	·01050			
	(†)		(†)					
21. 40	37. 0*	21. 40	·1021					
23. 55	(†)	23. 55	(†)					
May12		May12		May12				
2. 10	22. 52. 15	0. 20	·1033	0. 0	·01025	1	53 ·0	53 ·0
7. 53	40. 15	0. 50	·1013	2. 40	·00802	3	56 ·0	56 ·0
8. 5	45. 30	1. 54	·1036	7. 15	·01055	9	58 ·0	58 ·0
8. 25	32. 30	2. 40	·0998	8. 10	·01000	22	55 ·0	
8. 54	39. 30	2. 52	·1024	8. 30	·01038			
11. 33	44. 0	3. 8	·1015	13. 40	·00950			
12. 14	35. 30	3. 42	·1043	18. 10	·01290			
13. 32	48. 45	5. 8	·1018	23. 55	(†)			

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The time of reading the thermometers is the hour specified in Greenwich Time, or the hour increased by 40^m in Göttingen Time.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
May 12		May 12						
h m	° ′ ″	h m		h m			°	°
14. 5	22. 35. 30	6. 0	·1043					
15. 11	31. 30	6. 18	·1028					
16. 52	45. 0	6. 52	·1049					
18. 47	31. 0	7. 10	·1039					
23. 55	47. 45	7. 55	·1048					
		8. 15	·0988					
		8 38	·1020					
		10. 15	·1004					
		12. 10	·1006					
		12. 28	·1017					
		13. 8	·0990					
		13. 22	·1006					
		13. 38	·0996					
		14. 10	·1020					
		14. 54	·1005					
		16. 2	·1021					
		16. 15	·0993					
		17. 23	·1028					
		20. 26	·0985					
		22. 37	·0994					
		23. 10	·0984					
May 13		May 13		May 13				
1. 7	22. 50. 45	0. 33	·0986	0. 30	·01052	9	60 ·5	
7. 10	41. 0	1. 0	·0999	2. 55	·00805	21	53 ·0	53 ·0
7. 48	30. 30	1. 40	·0986	7. 45	·00960			
8. 0	39. 0	4. 20	·1020	10. 45	·00858			
8. 50	31. 45	4. 42	·1009	16. 52	·01292			
11. 23	42. 0	5. 22	·1030	23. 0	·01200			
19. 33	33. 0	7. 22	·1017					
23. 55	48. 0	7. 47	·1056					
		9. 12	·0998					
		12. 57:	·1014					
		17. 10	·0993					
		19. 8:	·1009					
		22. 24	·0999					
		23. 55	·1006					
May 14		May 14		May 14				
0. 0	(†)	0. 0	(†)	1. 5	·01170	1	57 ·0	57 ·0
1. 40	22. 48. 22*	1. 40	·1008*	3. 56	·00910	3	65 ·0	65 ·0
	(†)		(†)	8. 35	·00985	9	65 ·0	65 ·0
3. 40	45 29*	3. 40	·1010*	9. 55	·00923	21	58 ·0	
	(†)		(†)	15. 35	·01368			
9. 40	37. 19*	9. 40	·1010*	23. 55	·01250			
	(†)		(†)					
21. 40	38. 25*	21. 40	·1004*					
23. 55	(†)	23. 55	(†)					
May 15		May 15		May 15				
0. 41	22. 45. 30	0. 22	·0995	0. 30	·01202	1	60 ·0	60 ·0
13. 45	40. 15	6. 50:	·1013	4. 0	·00932	3	65 ·0	65 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
May 15		May 15		May 15				
h m	° ′ ″	h m		h m			°	°
14. 15:	22. 44. 45	22. 25	·1001	4. 30	·00940	9	64 ·5	
15. 10	39. 0	23. 30	·1009	23. 0	(†)	21	57 ·5	
20. 16	34. 30							
23. 55	43. 0							
May 16		May 16		May 16				
2. 31	22. 47. 0	0. 35	·1002	0. 30	·01276	1	60 ·0	60 ·0
	(†)	2. 31	·1008	10. 12	·00935	3	64 ·0	64 ·0
9. 30	37. 15		(†)	18. 10	·01396	9	64 ·0	
22. 10	36. 30	9. 38	·1002	23. 30	·01245	21	59 ·0	
23. 55	47. 30	16. 30:	·1008					
		23. 55	·0995					
May 17		May 17		May 17				
1. 8	22. 50. 30	1. 34	·0983	0. 30	·01055	1	56 ·0	56 ·0
7. 12	38. 30	3. 40	·1023	9. 54	·00870	3	60 ·0	60 ·0
8. 17	42. 30	4. 11	·1001	20. 3	·01300	9	60 ·0	60 ·0
8. 45	39. 0	6. 2	·1035		(†)	21	57 ·0	
13. 50	37. 0	7. 0	·1021					
23. 50	50. 0	7. 20	·1035					
		8. 40	·1007					
		9. 0	·1017					
		23. 15	·0992					
May 18		May 18		May 18				
1. 38	22. 52. 0	0. 3	·0998	0. 0	·01020	1	60 ·0	
12. 10	41. 0		(†)	3. 40	·00840	3	60 ·0	
12. 40	34. 15	3. 10	·1010	9. 20	·00800	9	60 ·0	
14. 0	39. 0	4. 38	·1034	19. 40	·01305	21	55 ·5	
19. 15	34. 30	6. 25	·1015	23. 30	·01280			
23. 36	47. 30	9. 50	·1034					
		22. 0:	·0992					
May 19		May 19		May 19				
1. 17	22. 50. 15	0. 40	·0992	0. 30	·01280	1	57 ·1	
19. 27	34. 30	5. 12:	·1015	5. 0	·01112	3	60 ·0	
23. 55	48. 0	22. 30:	·0998	7. 30	·01140	9	62 ·5	
				10. 30	·01102	22	56 ·0	
				19. 30	·01582			
				23. 55	·01522			
May 20		May 20		May 20				
1. 7	22. 49. 30	0. 12	·1001	0. 30	·01322	10	55 ·0	
13. 7	37. 30	6. 55	·1037	4. 0	·01330	21	55 ·0	
14. 40	45. 45	10. 0	·1023	13. 30	·01240			
19. 6	39. 30	10. 25	·1042	13. 55	·01120			
23. 45	54. 0	11. 16	·1021	17. 50	·01160			
		14. 55:	·1036	23. 0	·01115			
		21. 2	·0986	23. 55	·00950			
		23. 22:	·0995					

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The time of reading the thermometers is the hour specified in Greenwich Time, or the hour incrcased by 40^{m} Göttingen Time.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
May 21		May 21		May 21				
h m	° ′ ″	h m		h m			°	°
2. 3	22. 55. 0	1. 0	·0969	0. 0	·00935	1	57·0	
17. 48	37. 30	7. 18	·1025	1. 34	·00790	3	59·0	
23. 40	46. 30	23. 10	·0985	7. 0	·01035	9	66·0	
				10. 51	·00932	21	56·0	
				16. 27	·01377			
				23. 45	·00950			
May 22		May 22		May 22				
1. 45	22. 51. 0	1. 38	·0997	0. 30	·01312	1	58·0	
18. 37	35. 15	7. 3	·1035	11. 0	·00880	3	59·0	
23. 45	49. 0	23. 45	·0995	17. 48	·01315	9	60·0	
				23. 55	·01125	21	56·0	
May 23		May 23		May 23				
1. 15	22. 50. 30	0. 20	·0991	0. 30	·00773	1	60·0	
9. 30	41. 0	7. 18:	·1019	1. 10	·00735	3	63·0	
	(†)	9. 54	·1010	8. 0	·00953	9	64·0	
22. 3	38. 15	11. 15	·1018	9. 27	·00925	21	58·0	
23. 55	47. 30	23. 20	·0978		(†)			
				21. 40	·01314			
				23. 45	·01215			
May 24		May 24		May 24				
1. 50	22. 51. 0	1. 30	·0987	0. 30	·01167	1	64·0	
20. 0	34. 55	4. 56	·0996	1. 50	·00942	3	69·0	
23. 50	43. 30		(†)	6. 40	·01108	9	69·0	
		7. 42	·1005	9. 36	·01062	21	63·0	
		23. 25	·0979	14. 40	·01510			
				23. 55	·01390			
May 25		May 25		May 25				
2. 40	22. 50. 30	1. 0	·0975	0. 30	·01350	1	65·0	
19. 14	34. 30	8. 15:	·1004	3. 50	·01038	3	70·0	
23. 50	44. 30	10. 38	·0997	7. 30	·01100	9	70·5	
		11. 35	·1010	9. 42	·01058	21	61·0	
		11. 45	·0999	13. 18	·01540			
		16. 10:	·1011	23. 55	·01395			
		23. 55	·0976					
May 26		May 26		May 26				
2. 25	22. 50. 30	0. 30	·0972	0. 30	·01375	1	65·0	
6. 0	42. 30	1. 20	·0991	6. 12	·01020	3	68·0	
6. 40	33. 30	2. 42	·0978	7. 0	·01060	9	69·0	
8. 7	40. 3	3. 48	·1003	8. 30	·01018	22	62·0	
9. 52	33. 30	4. 54	·0986	8. 55	·01040			
12. 17	38. 30	7. 9	·1029	9. 5	·01240			
13. 2:	32. 0	10. 36	·0991	12. 5	·01435			
15. 7	38. 30	18. 30	·1004	23. 55	·01250			
23. 50	43. 0	21. 55	·0974					
		23. 0:	·0982					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
May 27		May 27		May 27				
h m	° ′ ″	h m		h m			°	°
2. 0	22. 46. 45	0. 0	(†)	0. 30	·01195	9	72·0	
4. 10	45. 50	9. 40	·0983*	1. 55	·00945	21	60·0	
5. 8	40. 20		(†)	5. 37	·01166			
6. 30	40. 30	21. 40	·0990*	8. 50	·01092			
8. 15	34. 30	23. 55	(†)	11. 40	·01540			
9. 5	40. 0			23. 55	·01310			
19. 10	33. 0							
	(†)							
22. 5	37. 0							
23. 40	44. 0							
May 28		May 28		May 28				
2. 17	22. 52. 30	0. 50	·1003	0. 0	·01310	1	60·0	
11. 23	37. 15	1. 55	·0991	7. 52	·01412	3	61·0	
11. 47	40. 30	2. 20	·1007	14. 37	·01342	9	60·0	
12. 32:	45. 30	2. 43	·0991	15. 10	·01250	21	56·0	
14. 0	38. 45	5. 0	·1039	17. 25	·01322			
20. 25	36. 30	6. 25	·1021	18. 55	·01270			
23. 55	47. 0	6. 50	·1035	19. 40	·01295			
		12. 30	·1011	23. 45	·01205			
		13. 15:	·1023					
		23. 30	·1002					
May 29		May 29		May 29				
2. 45	22. 49. 30	0. 15	·1000	0. 30	·01051	1	60·0	
15. 0	37. 30	7. 45:	·1015	3. 25	·00780	3	64·0	
23. 47	48. 30	23. 27	·0982	7. 30:	·00930	9	69·0	
				11. 0	·00885	21	63·0	
				17. 25	·01378			
				23. 45	·01250			
May 30		May 30		May 30				
0. 55	22. 48. 0	1. 24:	·0982	0. 30	·01192	1	60·0	
18. 52	34. 0	17. 35:	·1002	2. 25	·00904	3	70·0	
23. 50	45. 0	22. 35	·0989	6. 0	·01035	9	74·0	
				9. 47	·00995	21	64·5	
				15. 38	·01490			
				23. 45	·01362			
May 31		May 31		May 31				
3. 6	22. 49. 0	0. 18	·0991	0. 30	·01338	1	68·0	
20. 28	34. 15	3. 10	·1005	5. 4	·00980	3	70·0	
23. 55	49. 0	4. 30	·0995	8. 30	·01040	9	73·0	
		18. 10	·1015	11. 0	·00995	21	65·0	
		21. 20	·0987	15. 35	·01490			
				23. 45	·01340			
June 1		June 1		June 1				
1. 32	22. 52. 0	0. 45	·0993	0. 30	·01285	1	68·0	
19. 13	34. 0	3. 47	·0977	3. 37	·00932	3	70·0	
23. 55	50. 0	6. 52	·1009	6. 30	·01055	9	72·0	
		9. 10	·0996	9. 50	·01000	21	65·0	

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The time of reading the thermometers is the hour specified in Greenwich Time, or the hour increased by 40^m in Göttingen Time.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
h m	° ′ ″	June 1 h m		June 1 h m			°	°
		17. 0:	·1011	16. 10	·01500			
		21. 0:	·0990	21. 45	·01420			
		23. 5	·0996					
June 2		June 2		June 2				
	(†)	1. 53:	·1010		(†)	5	75·0	
7. 0	22. 40. 30	2. 13:	·1000	7. 0	·01038	23	66·0	
8. 38	30. 30	2. 43:	·1019	10. 0	·01010			
9. 45	38. 45	6. 8:	·0986	15. 20	·01510			
18. 15	34. 15	7. 8:	·0998	22. 55	·01380			
23. 40	46. 45	22. 50:	·0977					
June 3		June 3		June 3				
2. 10	22. 49. 0	0. 0	(†)	0. 35	·01345	11	73·0	
11. 36	33. 45	11. 40	·1002*	3. 30	·00975	21	64·0	
	***		(†)	7. 10	·01085			
14. 40	39. 45	21. 40	·0992*	8. 35	·01060			
	***	23. 55	(†)	9. 10	·01210			
15. 0	44. 5			13. 5	·01540			
	***			23. 55	·01338			
15. 45	40. 30							
	***							
20. 45	32. 15							
23. 55	44. 0							
June 4		June 4		June 4				
2. 30	22. 48. 30	1. 15	·0989	0. 30	·01302	1	65·0	
21. 40	32. 0	8. 5	·1005	4. 47	·00910	3	70·0	
23. 55	51. 30	23. 22	·0962	7. 10	·01000	9	72·0	
				10. 15	·00940	21	69·0	
				17. 15	·01500			
				23. 55	·01230			
June 5		June 5		June 5				
0. 30	22. 53. 0	0. 45	·0971	0. 30	·01115	1	75·0	
20. 18	31. 0	2. 3	·0984	1. 15	·00970	3	79·0	
23. 50	44. 45	2. 30	·0974	2. 35	·01045	9	75·0	
		5. 0	·1007	3. 15	·00965	21	66·0	
		9. 45	·0980	7. 45	·00945			
		10. 24	·0998	12. 50	·01425			
		11. 20	·0980	23. 45	·01255			
		14. 30	·0998					
		22. 40:	·0970					
		23. 55	·0981					
June 6		June 6		June 6				
2. 40	22. 49. 0	0. 44	·0978	0. 0	·01265	1	67·0	
10. 0	40. 30	4. 40	·1000	10. 20	·01300	3	68·0	
	***	6. 2	·1027	14. 20	·01228	9	67·0	
19. 20	30. 30	6. 52	·1007	14. 35	·01080	21	61·5	
23. 50	49. 0	11. 14	·1003	15. 45	·01115			
		16. 55	·1020	23. 45	·00950			

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h m	° ′ ″	June 6 h m		June 6 h m			°	°
		21. 20	·0968					
		23. 55	·0993					
June 7		June 7		June 7				
0. 5	22. 48. 30	0. 30	·0989	1. 0	·00872	1	66·0	
3. 57	59. 0	1. 37	·1000	3. 45	·00690	3	69·0	
4. 18	45. 30	1. 55	·0980	6. 48	·00860	9	70·0	
4. 40	52. 30	2. 52	·1002	10. 8	·00735	21	63·5	
4. 53	46. 30		(†)	16. 40	·01245			
7. 54	41. 30	10. 8	·0991	23. 55	·01210			
8. 48	28. 0	11. 5	·0976					
9. 7	43. 15	14. 8	·1001					
9. 26	32. 30	15. 42	·0990					
10. 7	41. 0	16. 46:	·1004					
11. 0	30. 15	22. 30	·0971					
11. 22	45. 15							
15. 47	36. 0							
16. 40	44. 30							
18. 56	32. 30							
23. 52	45. 15							
June 8		June 8		June 8				
0. 50	22. 46. 30	0. 0	(†)	0. 30	·01172	1	68·0	
7. 52	38. 45	1. 40	·0985*	10. 0	·00835	3	67·0	
8. 13	34. 45		(†)	16. 12	·01188	9	63·5	
8. 50	39. 30	3. 40	·0992*	23. 45	·00875	21	57·0	
10. 18	35. 0		(†)					
20. 23	31. 15	9. 40	·1002*					
23. 55	45. 0		(†)					
		21. 40	·0970*					
		23. 55	(†)					
June 9		June 9		June 9				
1. 30	22. 49. 30	0. 0	(†)	0. 0	·01110	1	62·0	
22. 16	31. 0	1. 45	·0990*	9. 58:	·00640	3	64·0	
23. 55	41. 30		(†)	16. 27	·01132	9	63·0	
		3. 45	·0992*	23. 0	·00995	22	57·0	
			(†)					
		9. 45	·1002*					
			(†)					
		22. 40	·0996*					
		23. 55	(†)					
June10		June10		June10				
1. 17	22. 46. 30	1. 30	·1002	0. 30	·01010	10	59·0	
21. 15	36. 15	6. 10	·1029	10. 55	·00815	21	56·0	
23. 55	44. 30	22. 50	·0996	15. 25:	·00955			
				15. 40	·00895			
				19. 0:	·00950			
				23. 45	·00800			

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June 11		June 11		June 11				
h m	° ′ ″	h m		h m			°	°
3. 7	22. 51. 0	0. 52	·0996	0. 30	·00775	1	56 ·0	
5. 33	43. 0	5. 50	·1037	5. 30	·00485	3	60 ·0	
13. 9	35. 30	22. 22	·0992	7. 35:	·00525	9	62 ·0	
19. 50	33. 45			10. 30	·00480	21	55 ·0	
23. 55	44. 45			18. 42	·01050			
				21. 0	·01005			
				21. 12	·00930			
				23. 45	·00907			
June 12		June 12		June 12				
3. 33	22. 52. 0	1. 35	·1003	0. 30	·00883	1	52 ·0	52 ·5
22. 0	38. 30	3. 30	·1035	10. 25:	·00472	3	57 ·0	
23. 55	49. 15	6. 45	·1034	19. 12	·00860	9	58 ·5	
		8. 0	·1027	19. 37	·00790	21	58 ·0	
		10. 30	·1016	23. 30	·00592			
		11. 40	·1021					
		14. 5	·1022					
		16. 8	·1045					
		18. 3	·0991					
		18. 9	·1011					
		18. 40	·0989					
		19. 20	·1032					
		20. 3	·1012					
		20. 30:	·1028					
		23. 30	·0977					
June 13		June 13		June 13				
2. 40	22. 53. 30	1. 0	·0975	0. 30	·00490	1	60 ·0	
4. 45	46. 45	2. 56	·1007	0. 45	·00460	3	65 ·0	
5. 3	52. 15	3. 58	·1002	5. 50:	·00770	9	66 ·0	
5. 40	46. 45	4. 7	·0974	9. 8:	·00720	21	57 ·5	
5. 52	51. 30	5. 0	·1036	13. 45	·01060			
6. 8	47. 15	5. 40	·0999	23. 30	·00880			
8. 22	38. 30	5. 50	·1017					
8. 37	43. 0	6. 22	·0997					
8. 54	38. 15	7. 0	·1015					
10. 0	41. 30	7. 55	·0993					
10. 26	35. 15	8. 26	·1014					
10. 48	42. 45	8. 45	·0996					
12. 55	38. 30	9. 0	·1015					
14. 10	45. 15	10. 10	·0987					
19. 50	35. 30	10. 38	·1011					
23. 55	47. 0	11. 0	·0989					
		14. 22	·0999					
		17. 55:	·1004					
		22. 30:	·0967					
		23. 55	·0977					
June 14		June 14		June 14				
2. 30	22. 49. 0	0. 30	·0977	0. 30	·00925	1	60 ·0	
7. 37	39. 30	8. 15	·1009	3. 15	·00620	3	65 ·0	
8. 0	34. 15	20. 22	·0979	16. 15	·01130	9	64 ·0	

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June 14		June 14		June 14				
h m	° ′ ″	h m		h m			°	°
8. 48	22. 39. 0	22. 0	·0988	23. 8	·01035	21	58 ·0	
13. 13	38. 30	23. 55	·0976					
13. 42	44. 0							
15. 30	38. 0							
16. 0	43. 30							
18. 45	30. 45							
23. 55	44. 15							
June 15		June 15		June 15				
1. 36	22. 47. 15	0. 45	·0967	1. 0	·00815	1	60 ·0	
20. 8	33. 30	7. 8	·1010	2. 45	·00625	3	66 ·0	
23. 55	44. 45	22. 1	·0984	8. 0:	·00720	9	68 ·0	
		23. 55	·0997	10. 0:	·00718	21	60 ·0	
				18. 35	·01240			
				23. 45	·01180			
June 16		June 16		June 16				
2. 58	22. 46. 45	0. 30	·1002	0. 30	·01180	1	60 ·0	
18. 0	36. 15	17. 10:	·1017	5. 42	·00725	3	63 ·0	
22. 50	44. 30	22. 36	·0992	7. 0	·00755	9	65 ·0	
				10. 0	·00723	21	56 ·0	
				17. 35	·01235			
				23. 0	·01172			
June 17		June 17		June 17				
0. 38	22. 50. 0	1. 0	·1000	0. 0	·01170	11	61 ·0	
20. 24	35. 15	11. 21	·1021	10. 30:	·00760	21	59 ·5	
23. 50	46. 45	23. 48	·0991	16. 12	·01175			
				18. 15	·01150			
				19. 30	·01200			
				23. 30	·00990			
June 18		June 18		June 18				
2. 20	22. 48. 30	0. 10	·0997	3. 45	·00670	1	65 ·0	
18. 35	34. 0	0. 35	·0981	12. 50	·01270	3	67 ·0	
23. 55	48. 0	1. 37	·0996	23. 55	·01058	9	68 ·5	
		2. 25	·0970			21	55 ·0	
		7. 5	·1010					
		22. 30	·0982					
June 19		June 19		June 19				
0. 48	22. 49. 45	0. 30	·1000	0. 30	·01040	1	60 ·0	
10. 3	39. 30	4. 50	·1023	10. 55:	·00735	3	60 ·0	
13. 3	45. 30	5. 26	·1005	21. 10	·00905	9	61 ·0	
17. 40	32. 45	8. 8:	·1025	23. 40	·00764	21	61 ·0	
20. 8	40. 30	9. 47	·1009					
20. 18	36. 0	17. 2:	·1020					
21. 12	48. 0	20. 40	·0969					
22. 12	45. 0	21. 38	·0999					
23. 3	49. 30	23. 30	·0984					

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June20		June20		June20				
h m	° ′ ″	h m		h m			°	°
1. 55	22. 49. 0	0. 30	·0995	0. 0	·00752	1	64 ·0	
16. 20	36. 0	2. 25	·0980	2. 8	·00597	3	66 ·0	
17. 10	40. 0	3. 40	·1009	6. 25	·00767	9	68 ·0	
17. 37	34. 30	4. 32	·0985	8. 15	·00750	21	63 ·0	
18. 27	50. 30	6. 4	·1016	16. 42	·01225			
19. 17	39. 0	6. 20	·1000	19. 5	·01140			
23. 50	48. 0	7. 36	·1024	22. 20	·01150			
		9. 15	·0999	23. 30	·01075			
		17. 30	·1017					
		18. 23	·0986					
		18. 53	·1006					
		21. 50	·0974					
		23. 23	·0991					
		23. 55	·0978					
June21		June21		June21				
2. 10	22. 53. 0	0. 30	·0982	0. 30	·01115	1	65 ·0	
21. 6	32. 0	9. 40	·1013	3. 32	·00740	3	67 ·0	
22. 10	35. 0	11. 8	·0987	9. 10	·00838	9	70 ·0	
		18. 0:	·1007	14. 35	·01303	21	62 ·0	
		23. 20	·0975	22. 10	·01155			
				23. 45	·01180			
June22		June22		June22				
2. 15	22. 50. 0	1. 35	·0983	0. 30	·01175	1	60 ·0	
20. 52	33. 30	4. 20	·1016	5. 45	·00752	3	65 ·0	
23. 55	46. 45	11. 30	·0994	7. 45	·00800	9	70 ·5	
		18. 2:	·1008	8. 55	·00770	21	64 ·0	
		22. 44	·0972	15. 40	·01260			
				21. 40	·01195			
				23. 55	·00918			
June23		June23		June23				
2. 15	22. 50. 30	0. 30	·0972	0. 30	·00830	1	70 ·0	
	***	18. 0:	·0993	1. 30	·00695	3	75 ·0	
9. 10	38. 0	23. 0	·0962	14. 10	·01425	9	75 ·0	
19. 8	31. 30			23. 55	·01295	23	72 ·0	
23. 55	44. 30							
June24		June24		June24				
2. 20	22. 49. 0	0. 30	·0972	0. 30	·01282	11	69 ·0	
14. 16	40. 0	3. 30	·0996	6. 30	·00818	21	63 ·0	
17. 10	30. 30	5. 0	·0983	12. 10	·01290			
20. 3	36. 0	14. 42:	·1021	23. 45	·01080			
20. 12	32. 30	22. 30	·0997					
23. 55	44. 30	22. 38	·1026					
		22. 55	·1007					
June25		June25		June25				
3. 0	22. 48. 15	1. 5	·0995	0. 30	·01040	1	64 ·0	
20. 7	31. 45	2. 10	·0987	5. 0	·00675	3	70 ·0	
23. 55	48. 0	3. 15	·1009	18. 45	·01250	9	69 ·0	

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		June25		June25				
m	° ′ ″	h m		h m			°	°
		6. 20	·0994	23. 45	·01060	21	64 ·0	
		8. 10:	·1013					
		23. 10	·0977					
June26		June26		June26				
1. 45	22. 48. 15	1. 18	·0983	0. 30	·01045	1	68 ·0	68 ·0
9. 30	38. 0	4. 15	·1013	5. 24	·00715	3	70 ·0	70 ·0
	(†)	23. 33	·0991	9. 27	·00742	9	73 ·0	73 ·0
21. 55	38. 0				(†)	21	65 ·0	65 ·0
23. 50	45. 30			21. 55	·01220			
				23. 55	·01115			
June27		June27		June27				
1. 10	22. 47. 0	0. 7	·0992	0. 15	·01095	1	70 ·0	70 ·0
5. 32	35. 0	0. 55	·0979	3. 42	·00768	3	75 ·0	75 ·0
6. 10	42. 30	4. 56	·1028	5. 40	·00845	9	77 ·0	77 ·0
20. 7	32. 0	5. 26	·1000	8. 10:	·00827	21	64 ·0	64 ·0
23. 55	43. 45	7. 3	·1020	15. 8	·01325			
		21. 58	·0960	23. 45	·01195			
		23. 37	·0989					
June28		June28		June28				
2. 30	22. 49. 0	1. 0	·0971	0. 45	·01205	1	65 ·0	65 ·0
9. 44	38. 15	4. 47	·1024	10. 45:	·00982	3	65 ·0	65 ·0
13. 37	46. 0	5. 30	·1008	15. 52	·01235	9	68 ·0	68 ·0
17. 43	34. 45	6. 55	·1026	23. 55	·01020	21	62 ·5	62 ·5
23. 55	46. 0	23. 54	·0983					
June29		June29		June29				
1. 25	22. 49. 0	0. 45	·0982	0. 15	·00995	1	65 ·0	65 ·0
10. 22	36. 30	10. 40	·1020	9. 55	·00585	3	66 ·0	66 ·0
16. 8	42. 0	23. 50	·0997	17. 0	·00835	9	66 ·0	66 ·0
19. 50	35. 0			23. 30	·00700	21	61 ·0	61 ·0
23. 55	47. 30							
June30		June30		June30				
2. 22	22. 51. 30	0. 10	·1000	0. 30	·00690	1	65 ·0	65 ·0
11. 55	36. 45	13. 8	·1018	8. 45:	·00565	3	65 ·0	65 ·0
13. 7	40. 0	13. 25	·1032	16. 35	·01057	9	66 ·0	66 ·0
13. 30	46. 45	13. 55	·1013	23. 20	·00872	22	56 ·0	56 ·0
14. 10	42. 30	23. 15	·0985					
19. 8	35. 30							
23. 15	47 ·30							
July 1		July 1		July 1				
2. 12	22. 49. 30	0. 45	·0982	0. 0	·00800	12	70 ·0	70 ·0
18. 17	36. 15	5. 20	·1003	2. 24	·00555	21	66 ·8	67 ·0
23. 54	48. 5	22. 30	·0989	7. 32	·00800			
				9. 15	·00785			
				19. 22	·01330			
				23. 45	·01235			

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July 2		July 2		July 2				
h m	° ′ ″	h m		h m			°	°
0. 45	22. 48. 30	1. 0	·0983	0. 45	·01235	1	65 ·0	
18. 14	32. 0	6. 30	·1001	6. 14	·01185	3	70 ·0	
23. 55	44. 30	9. 35	·0994	10. 22	·01280	9	69 ·0	
		17. 0	·1013	23. 45	·00895	21	63 ·5	
		23. 53	·0991					
July 3		July 3		July 3				
2. 45	22. 50. 15	1. 40	·0995	1. 0	·00915	1	65 ·0	
12. 15	38. 15	5. 13	·1035	5. 0	·00690	3	68 ·0	
14. 8	44. 30	5. 40	·1019	7. 30	·00755	9	69 ·5	
15. 42	29. 30	6. 4	·1032	10. 0:	·00713	21	60 ·0	
16. 10	35. 0	6. 20	·0998	19. 4	·01220			
16. 25	29. 0	7. 20:	·1023	23. 45	·01165			
19. 3	45. 0	9. 20	·0994					
20. 45	36. 30	14. 7	·1018					
23. 50	47. 15	15. 43	·1004					
		16. 10	·1019					
		23. 40	·0981					
July 4		July 4		July 4				
2. 23	22. 54. 0	0. 25	·0984	0. 30	·01173	1	65 ·0	
8. 12	44. 0	2. 30	·0996	10. 1	·00940	3	67 ·0	
9. 0	32. 45	3. 20	·0975	14. 38	·01230	9	68 ·0	
9. 47	41. 0	5. 0	·1026	23. 45	·01102	21	62 ·0	
11. 37	42. 0	8. 45	·1005					
12. 0	36. 0	9. 10	·1032					
17. 0	46. 45	10. 7	·1002					
18. 27	34. 0	10. 34	·1011					
23. 55	45. 45	22. 30:	·0962					
		23. 55	·0987					
July 5		July 5		July 5				
3. 3	22. 50. 30	0. 45	·0995	1. 0	·01082	1	65 ·0	
9. 32	39. 30	4. 22	·1024	9. 56:	·00655	3	65 ·0	
9. 50	46. 0	5. 45	·1003	17. 32	·01190	9	68 ·0	
10. 30	40. 0	9. 40	·1033	23. 45	·01030	21	64 ·5	
19. 45	35. 45	11. 20	·0997					
23. 55	49. 0	18. 28	·1005					
		23. 55	·0977					
July 6		July 6		July 6				
1. 40	22. 52. 0	0. 50	·0973	0. 30	·00910	1	65 ·0	
20. 24	34. 15	5. 5	·1010	3. 0	·00660	3	70 ·0	
23. 55	47. 0	23. 40	·0958	8. 15	·00758	9	73 ·5	
				15. 50	·01318	21	69 ·0	
				23. 45	·01080			
July 7		July 7		July 7				
2. 0	22. 50. 45	0. 45	·0960		(†)	1	75 ·0	
18. 50	32. 15	17. 15	·1006			3	77 ·0	
23. 55	48. 15	23. 55	·0958			10	78 ·0	
						23	74 ·0	

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
July 8		July 8		July 8				
h m	° ′ ″	h m		h m			°	°
1. 40	22. 51. 0	0. 30	·0961	0. 30	·00890	9	79 ·0	
12. 0	34. 30	2. 18	·0967	2. 5	·00710	21	66 ·0	
15. 40	37. 0		(†)	4. 30:	·00818			
18. 50	32. 30	9. 42	·0983	5. 20	·00785			
23. 55	43. 30	15. 50	·0992	5. 35	·00830			
		22. 48	·0965	6. 30	·00810			
				13. 33	·01277			
				23. 30	·01135			
July 9		July 9		July 9				
2. 13	22. 48. 30	0. 30	·0975	0. 30	·01090	1	70 ·0	
11. 30	35. 30	5. 8	·1006	4. 15	·01015	3	75 ·0	
13. 13	37. 45	11. 25	·0982	7. 0	·01050	9	75 ·0	
13. 32	47. 45	12. 6	·1000	9. 0	·00996	21	65 ·5	
14. 10	31. 0	13. 12	·0988	13. 24	·01183			
15. 33	24. 0	13. 25	·1032	17. 0	·01040			
16. 26	34. 0	13. 52	·0990	23. 45	·01000			
17. 12	27. 30	14. 30	·1017					
23. 55	43. 30	15. 40	·0993					
		16. 24	·1018					
		23. 52	·0964					
July 10		July 10		July 10				
2. 37	22. 47. 30	0. 30	·0965	0. 30	·00988	1	71 ·0	
20. 52	32. 30	17. 30:	·1000	12. 0	·00710	3	75 ·0	
23. 55	46. 0	23. 50	·1055	17. 40	·01105	9	74 ·5	
				23. 45	·01015	21	67 ·5	
July 11		July 11		July 11				
2. 47	22. 49. 0	0. 50	·0971	0. 45	·00955	1	72 ·0	
18. 43	34. 15	17. 20:	·1022	4. 30:	·00685	3	75 ·0	
23. 55	48. 15	23. 0	·0992	8. 10	·00705	9	73 ·0	
				11. 30	·00918	21	63 ·0	
				23. 55	·00385			
July 12		July 12		July 12				
1. 45	22. 50. 0	0. 30	·0998	0. 20	·00595	1	70 ·0	
13. 36	38. 0	2. 18	·0973	1. 50	·00464	3	75 ·0	
14. 53	42. 0	4. 53	·1000	4. 50	·00640	9	78 ·0	
15. 10	34. 0	5. 18	·0973	15. 32	·01130	21	65 ·0	
15. 45	41. 45	14. 55	·1025	23. 15	·00862			
18. 15	35. 15	15. 30	·0989					
23. 50	49. 30	16. 55	·1007					
		23. 20	·0984					
July 13		July 13		July 13				
1. 38	22. 51. 15	0. 30	·0988	0. 30	·00780	1	72 ·0	
9. 20	39. 0	3. 15	·1006	4. 15	·00635	3	75 ·0	
	***	23. 55	·0979	5. 40	·00695	9	75 ·0	
10. 0	42. 0			7. 45	00705	21	63 ·0	
	***			15. 7	·01095			
12. 43	37. 30			23. 45	·00835			
	***							

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
July 13								
h m	° ′ ″	h m		h m			°	°
14. 13	22. 38. 0							
	***							
14. 45	29. 45							
	***							
16. 0	37. 0							
	***							
18. 30:	34. 30							
	***							
23. 55	47. 15							
July 14		July 14		July 14				
2. 5	22. 50. 45	1. 0	·0984	0. 30	·00520	1	68 ·0	
5. 0	40. 15	19. 53:	·1008	2. 0	·00398	3	75 ·0	
	***	23. 30	·0985	17. 7:	·00985	9	72 ·0	
9. 0	40. 30			23. 15:	·00830	21	61 ·0	
9. 36	46. 0							
10. 30	41. 15							
12. 37	44. 30							
14. 40	38. 0							
16. 10	39. 33							
18. 30	35. 0							
23. 10	45. 30							
July 15		July 15		July 15				
2. 22:	22. 48. 15	0. 0	·0980	0. 0	·00800	11	71 ·0	
11. 8	43. 15	7. 15	·1024	10. 0:	·00415	21	62 ·5	
12. 8	36. 0	8. 28	·1001	15. 55:	·00760			
13. 8	48. 0	11. 13	·1020	23. 15	·00525			
14. 15	38. 15	12. 45	·0997					
15. 30	42. 30	13. 40	·1010					
19. 13	35. 15	14. 45	·0998					
23. 55	50. 15	16. 7	·1010					
		23. 0	·0982					
July 16		July 16		July 16				
0. 48:	22. 51. 0	1. 6	·0885	1. 0	·00402	1	68 ·0	
9. 27	40. 0	16. 42:	·1017	2. 20	·00308	3	73 ·0	
	***	23. 40	·0978	16. 40:	·00970	9	72 ·5	
20. 18:	36. 15			23. 55	·00825	21	65 ·0	
	***							
23. 55	46. 0							
July 17		July 17		July 17				
2. 38:	22. 45. 0	0. 30	·0985	0. 30	·00770	1	70 ·0	
	***	7. 15:	·1026	6. 15	·00560	3	70 ·0	
10. 54	42. 0	8. 0	·1016	18. 45:	·00725	9	68 ·0	
	* *	8. 36:	·1025	23. 55	·00642	21	64 ·0	
11. 20	36. 0	10. 23	·1013					
	***	10. 56	·1038					
20. 40	34. 15	11. 18	·1023					
23. 55	46. 0	22. 55	·0984					
		23. 55	·0995					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
July 18		July 18		July 18				
h m	° ′ ″	h m		h m			°	°
2. 4	22. 48. 0	0. 40	·0995	1. 0	·00605	1	65 ·0	
	***	7. 0	·1029	6. 5	·00415	3	68 ·0	
10. 0	37. 0	23. 15:	·0988	17. 15	·00580	9	65 ·0	
	***			23. 55	·00375	21	60 ·0	
12. 24	42. 0							
	***							
13. 3	36. 15							
	***							
14. 37	40. 0							
	***							
16. 32	36. 45							
	***							
17. 5	40. 0							
	***							
19. 33:	34. 0							
	***							
23. 55	48. 30							
July 19		July 19		July 19				
2. 10:	22. 49. 30	0. 40	·0997	0. 30	·00360	1	62 ·0	
	***	11. 45:	·1030	9. 10:	·00148	3	65 ·0	
20. 0	35. 30	23. 25:	·0973	13. 10	·00287	9	63 ·0	
23. 55	46. 0			23. 55	·00080	21	56 ·0	
July 20		July 20		July 20				
2. 42	22. 51. 45	1. 0	·0985	1. 0	·00060	1	60 ·0	
10. 25	37. 15	10. 30	·1019	2. 10	·00022	3	61 ·0	
13. 20	40. 0	12. 55	·1000	7. 0	·00200	9	63 ·0	
14. 55	34. 0	16. 0	·1022	11. 0:	·00155	21	58 ·0	
15. 50	44. 45	23. 8	·0983	19. 30:	·00420			
16. 30	36. 30			23. 55	·00250			
19. 23	30. 30							
23. 55	47. 15							
July 21		July 21		July 21				
1. 45:	22. 51. 15	1. 8	·0984	0. 30	·00222	1	60 ·0	
9. 31	40. 45	6. 12	·1020	2. 40	·00130	3	65 ·0	
	***	22. 48	·0971	7. 0	·00325	9	68 ·0	
14. 23	40. 0			9. 50:	·00280	22	63 ·5	
	***			21. 15	·00833			
14. 40	44. 30			23. 30	·00810			
	***							
17. 40	30. 15							
18. 47	41. 0							
20. 3	33. 30							
23. 30	43. 45							
July 22		July 22		July 22				
2. 38:	22. 49. 30	1. 22	·0961	0. 0	·00760	11	66 ·0	
10. 30	39. 45	4. 32	·0983	5. 35	·00368	21	63 ·8	
11. 30	30. 30	6. 0	·1023	7. 20	·00397			
11. 42	35. 0	6. 33	·0986	12. 0	·00318			

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July 22	° ′ ″	July 22		July 22			°	°
h m		h m		h m				
11. 55	22. 30. 30	7. 40	·1005	22. 0	·00815			
12. 8	34. 30	19. 0	·0992	23. 15	·00780			
12. 40	30. 0	21. 20	·0948					
13. 48	37. 0	23. 15	·0955					
15. 33	31. 13							
23. 43	45. 0							
July 23		July 23		July 23				
3. 12:	22. 47. 45	1. 30	·0977	1. 30	·00685	1	64 ·0	
	***	5. 33	·1023	4. 0	·00610	3	65 ·0	
9. 40	35. 30	5. 57	·0995	10. 45	·00552	9	65 ·0	
	***	6. 15	·1007	13. 20	·00635	21	60 ·0	
12. 56	39. 45	7. 47	·1026	13. 50	·00550			
	***	9. 24	·0996	15. 5	·00705			
13. 37	50. 0	13. 38	·1031	15. 30	·00630			
	***	14. 1	·0987	18. 5	·00667			
14. 2	31. 30	15. 10	·1029	23. 55	·00395			
	***	16. 0	·1002					
16. 20	45. 15	19. 29	·1003					
	***	20. 45	·0955					
17. 54	33. 30	23. 0	·0990					
	***	23. 55	·0984					
18. 15	43. 30							
	***							
18. 55	33. 0							
21. 30	47. 0							
22. 40	41. 15							
23. 55	44. 30							
July 24		July 24		July 24				
2. 37:	22. 48. 30	0. 40	·0976	0. 30	·00368	1	60 ·0	
	***	3. 23	·0986	7. 37	·00240	3	62 ·5	
9. 13	39. 0	4. 40	·1025	10. 25	·00200	9	63 ·0	
	***	5. 38	·1005	15. 40	·00385	21	59 ·5	
9. 29	31. 30	9. 10	·1002	15. 50	·00330			
	***	9. 29	·1016	19. 0	·00375			
10. 8	40. 45	10. 27	·0993	23. 55	·00210			
	***	23. 33	·0963					
10. 53	36. 0							
	***							
12. 40	39. 0							
	***							
13. 8	47. 15							
	***							
13. 47	38. 15							
	***							
20. 33	33. 0							
	***							
23. 55	46. 0							
July 25		July 25		July 25				
1. 48	22. 49. 0	0. 30	·0970	0. 35	·00200	1	63 ·0	
	***							

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July 25	° ′ ″	July 25		July 25			°	°
h m		h m		h m				
11. 7	22. 36. 15	2. 24	·0980	3. 7	·00322	3	65 ·0	
	***	3. 3	·1004	11. 40:	·00168	9	64 ·0	
12. 3	43. 30	6. 3	·1017	20. 30	·00657	21	60 ·0	
	***	10. 20	·1004	23. 55	·00427			
13. 2	38. 30	11. 15	·1021					
	***	11. 40	·1001					
13. 45	44. 0	12. 3	·1018					
	***	13. 32	·0992					
15. 15	37. 45	14. 33	·1006					
	***	23. 40:	·0978					
19. 20:	32. 30							
	***							
22. 40	42. 15							
July 26		July 26		July 26				
2. 30	22. 52. 0	0. 30	·0984	1. 0	·00375	1	65 ·0	
	***	1. 0	·0992	5. 45	·00175	3	65 ·0	
9. 43	38. 0	1. 33	·0982	14. 10	·00290	9	63 ·0	
	***	9. 35	·1010	18. 22	·00222	21	58 ·0	
16. 20	45. 0	9. 50	·1022	20. 40	·00278			
	***	10. 25	·1002	23. 55	·00075			
20. 28:	37. 0	23. 30	·0980					
23. 45	47. 30							
July 27		July 27		July 27				
1. 45:	22. 48. 15	2. 0	·0983	1. 0	·00335	1	63 ·0	
19. 30	36. 30	3. 20	·1009	6. 0	·00500	3	65 ·0	
23. 55	46. 0	6. 20	·0988	6. 25	·00570	9	69 ·0	
		7. 40	·1005	10. 40:	·00430	21	61 ·5	
		8. 10	·0992	16. 0	·00663			
		23. 45:	·0973	19. 10	·00650			
				21. 20	·00735			
				23. 55	·00694			
July 28		July 28		July 28				
0. 0	(†)	1. 25	·0974	1. 0	·00595	1	66 ·0	
1. 40	22. 49. 28	3. 52	·0996	2. 2	·00510	3	70 ·0	
	(†)	4. 55:	·0981	4. 10:	·00555	9	68 ·0	
3. 40	47. 1	7. 45:	·0996	7. 40	·00440	22	64 ·0	
	(†)	22. 18	·0979	8. 15	·00505			
10. 0	38. 25			23. 40	·00690			
	(†)							
22. 40	39. 17							
23. 55	(†)							
July 29		July 29		July 29				
1. 30	22. 49. 0	0. 24	·0991	0. 0	·00803	9	66 ·0	
20. 10:	35. 30	5. 26	·1015	10. 30	·00615	21	60 ·0	
23. 45	44. 0	6. 40	·1001	14. 47	·00817			
		7. 20	·1007	18. 55	·00778			
		8. 0	·0999		(†)			
		22. 45:	·0982					

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July 30		July 30		July 30				
h m	° ′ ″	h m		h m			°	°
1. 13:	22. 47. 0	1. 30:	·0992	1. 0	·00295	1	65 ·0	
9. 38	37. 30	10. 30	·0997	2. 30	·00350	3	69 ·0	
17. 40:	31. 15	14. 55	·1005	3. 25	·00250	9	68 ·5	
23. 55	45. 0	23. 40:	·0981	10. 30:	·00105	21	62 ·2	
				16. 10	·00500			
				23. 55	·00465			
July 31		July 31		July 31				
1. 40:	22. 45. 45	0. 10	·0986	0. 30	·00705	1	65 ·0	
6. 30	37. 15	1. 38	·0997	9. 31	·00310	3	68 ·0	
9. 35	37. 30	2. 8	·0988	10. 30	·00345	9	60 ·8	
	(†)	2. 47	·1000	12. 0	·00275	21	60 ·8	
18. 37	40. 0	3. 42	·0981	12. 45	·00315			
19. 12	47. 15	4. 34	·1027	13. 45	·00227			
21. 0	38. 0	6. 8	·0987	18. 15	·00695			
23. 3	45. 0	10. 8	·1004	19. 40	·00638			
		10. 32	·1024	23. 30	·00684			
		12. 25	·0969					
		13. 0	·0998					
		14. 20	·0991					
		15. 20	·0957					
		15. 52	·0978					
		23. 7	·0952					
Aug. 1		Aug. 1		Aug. 1				
1. 55	22. 51. 0	0. 10	·0973	0. 30	·00755	1	64 ·0	
9. 20	34. 30	1. 22	·0997	7. 42	·00300	3	65 ·0	
13. 29	43. 0	2. 8	·0983	9. 20	·00338	9	66 ·5	
16. 8	34. 15	3. 8	·1003	13. 45	·00335	21	60 ·0	
17. 0	36. 30	3. 48	·0987	20. 10	·00790			
20. 52	34. 0	6. 18	·1007	23. 45	·00750			
23. 55	46. 0	7. 7	·0989					
		9. 37	·1007					
		20. 52:	·0975					
		23. 52	·0977					
Aug. 2		Aug. 2		Aug. 2				
1. 45:	22. 51. 15	0. 36	·0977	0. 30	·00735	1	65 ·0	
20. 40:	36. 0	16. 40:	·0998	5. 25	·00350	3	66 ·0	
23. 55	45. 0	23. 55	·0981	10. 15	·00335	9	70 ·0	
				23. 55	·00875	21	65 ·0	
Aug. 3		Aug. 3		Aug. 3				
2. 40:	22. 50. 0	0. 40	·0980	1. 0	·00885	1	63 ·0	
21. 2	37. 15	17. 2	·1009	4. 0:	·00910	3	65 ·0	
23. 55	46. 45	23. 5	·0981	9. 29	·00805	9	65 ·0	
				12. 30	·00882	21	55 ·0	
				16. 0	·00815			
				16. 50	·00880			
				23. 55	·00740			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Aug. 4		Aug. 4		Aug. 4				
h m	° ′ ″	h m		h m			°	°
1. 30:	22. 49. 30	1. 0	·0993	1. 0	·00630	1	60 ·0	
11. 0	34. 30	11. 35	·1005	4. 30	·00230	3	65 ·0	
23. 55	(†)	22. 45	·0981	17. 34	·00802	9	67 ·0	
				23. 55	·00700	22	58 ·5	
Aug. 5		Aug. 5		Aug. 5				
2. 15:	22. 48. 0	0. 30	·0992	0. 30	·00668	9	68 ·0	
19. 50	34. 30	3. 30	·1007	4. 35	·00250	21	59 ·5	
23. 8	41. 30	23. 52:	·0982	7. 30:	·00318			
				10. 15:	·00270			
				19. 25	·00840			
				23. 30	·00820			
Aug. 6		Aug. 6		Aug. 6				
2. 10	22. 48. 45	1. 30	·0991	1. 30	·00750	1	65 ·0	
20. 0	33. 30	11. 0	·0994	4. 40	·00345	3	70 ·0	
23. 55	46. 30	16. 0	·0992	7. 50	·00390	9	70 ·0	
		23. 10:	·0971	7. 53	·00472	21	61 ·5	
				8. 35	·00435			
				16. 42	·00925			
				23. 55	·00755			
Aug. 7		Aug. 7		Aug. 7				
2. 15	22. 51. 15	1. 40	·0991	1. 0	·00650	1	65 ·0	
12. 0	36. 0	12. 23	·0997	3. 50	·00370	3	75 ·0	
20. 2:	35. 0	23. 20:	·0971	20. 35	·00987	9	74 ·5	
23. 40	46. 15			23. 55	·00960	21	70 ·0	
Aug. 8		Aug. 8		Aug. 8				
2. 16	22. 53. 30	0. 10	·0975	0. 0	·00957	1	74 ·0	
	***	1. 55	·0979	4. 54	·00498	3	76 ·0	
13. 0	35. 30	2. 18	·1000	8. 15	·00495	9	77 ·0	
15. 40:	41. 0	3. 30	·0924	15. 18	·01035	21	67 ·0	
21. 15:	35. 0	8. 8	·0990	23. 30	·00880			
23. 50	43. 30	8. 11	·1022					
		9. 0	·0997					
		23. 25	·0974					
Aug. 9		Aug. 9		Aug. 9				
3. 36	22. 53. 0	0. 38	·0923	0. 0	·00850	1	69 ·0	
7. 38	40. 30	3. 32	·1024	10. 15	·00440	3	70 ·0	
8. 8	44. 30	4. 25	·0996	10. 45	·00365	9	72 ·0	
9. 2	36. 30	4. 55	·1013	11. 30	·00422	21	65 ·0	
9. 39	39. 0	5. 14	·0997	20. 55	·00887			
10. 5	36. 0	5. 50	·1016	23. 30	·00778			
10. 46	46. 45	6. 30	·1000					
12. 43	30. 45	6. 53	·1019					
13. 1	35. 30	7. 8	·0987					
13. 17	30. 15	7. 42	·1005					
13. 50	36. 30	8. 55	·0979					
14. 17	30. 0	23. 5:	·0972					
15. 9	38. 0							

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Aug. 9								
h m	° ′ ″	h m		h m			°	°
15. 40	22. 35. 0							
20. 18	42. 30							
23. 40	48. 15							
Aug.10		Aug.10		Aug.10				
1. 24	22. 48. 15	0. 25	·0971	0. 0	·00675	1	70 ·0	
9. 20	38. 0	0. 50	·0982	3. 20	·00415	3	75 ·0	
10. 18	39. 30	1. 50	·0963	6. 0	·00485	9	77 ·0	
12. 0	39. 0	3. 30	·0986	8. 40	·00432	21	69 ·0	
12. 20	43. 20	23. 8	·0965	17. 38	·01005			
13. 10	37. 0			23. 30	·00950			
14. 0	36. 15							
18. 50	33. 0							
23. 55	42. 30							
Aug.11		Aug.11		Aug.11				
1. 40:	22. 46. 30	1. 0	·0963	0. 45	·00900	1	74 ·0	
	***	5. 2:	·0985	5. 30	·00432	3	77 ·0	
11. 55	36. 0	6. 30:	·0975	7. 50	·00412	9	75 ·0	
	***	17. 0:	·0999	18. 30	·01000	22	66 ·0	
12. 55	41. 0	23. 25	·0976	23. 30	·00958			
	***							
15. 46	35. 0							
	***							
20. 18:	36. 30							
23. 28	43. 45							
Aug.12		Aug.12		Aug.12				
2. 5:	22. 48. 0	0. 25	·0971	0. 0	·00940	9	69 ·0	
4. 30	44. 0	5. 50	·1011	10. 5	·00750	21	65 ·0	
	***	8. 38	·0982	23. 55	(†)			
8. 53	36. 30	14. 43	·1013					
	***	16. 30	·0991					
9. 10	39. 30	17. 7	·1010					
	***	23. 7	·0979					
11. 18	35. 45							
	***							
11. 45	39. 30							
	***							
14. 42	40. 0							
	***							
15. 5	34. 15							
	***							
16. 22	42. 0							
	***							
18. 40	31. 30							
	***							
18. 56	37. 15							
	***							
19. 35	31. 30							
	***							
20. 3	37. 30							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Aug.12								
h m	° ′ ″	h m		h m			°	°
20. 22	22. 34. 0							
	***							
23. 45	43. 15							
Aug.13		Aug.13		Aug.13				
1. 50	22. 50. 30	1. 0	·0984	1. 30	·00760	1	68 ·0	
9. 30	36. 15	5. 20	·0976	8. 0:	·00500	3	70 ·0	
	***	9. 52	·1000	12. 25	·00710	9	67 ·0	
10. 35	26. 0	10. 10	·1018	14. 35	·00818	21	61 ·0	
	***	10. 28	·1004	15. 52	·00770			
10. 48	32. 30	12. 0	·0983	18. 48	·00830			
	***	13. 30	·1009	23. 45	·00750			
11. 45	25. 0	14. 45	·0992					
	***	15. 20	·1012					
12. 40	46. 0	15. 52	·0983					
	***	17. 15	·1011					
14. 0	30. 0	22. 40	·0964					
	***							
14. 57	43. 0							
	***							
16. 0	34. 0							
	***							
16. 30	40. 0							
	***							
17. 0	37. 0							
	***							
23. 50	44. 0							
Aug.14		Aug.14		Aug.14				
1. 37:	22. 48. 0	0. 0	·0976	0. 0	·00740	1	63 ·5	
	***	6. 40	·1002	9. 40:	·00212	3	64 ·5	
19. 40:	34. 15	22. 25	·0976	23. 0:	·00830	9	66 ·0	
	***					21	61 ·0	
23. 55	42. 0							
Aug.15		Aug.15		Aug.15				
1. 4:	22. 45. 0	0. 40	·0990	1. 0	·00750	1	65 ·0	
13. 15	37. 0	18. 10:	·1003	5. 45	·00290	3	69 ·0	
	***	22. 52	·0982	9. 56	·00260	9	66 ·0	
23. 55	44. 0			17. 48	·00862	21	62 ·0	
				23. 55	·00715			
Aug.16		Aug.16		Aug.16				
1. 8	22. 45. 45	1. 0	·0981	0. 45	·00672	1	64 ·0	
	***	5. 22	·0994	2. 37	·00572	3	65 ·0	
6. 22	40. 0	5. 52	·1029		(†)	9	64 ·0	
	***	6. 45	·1014			21	57 ·0	
7. 17	28. 30	7. 22	·1032					
	***	8. 40	·0990					
7. 37	39. 0	9. 16	·1019					
	***	9. 52	·0986					
7. 47	29. 0	10. 13	·1002					
	***							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Aug.16	° ′ ″	Aug.16		h m			°	°
h m 8. 8	22. 35. 0	h m 10. 45:	·0991					
	***	18. 50	·1006					
8. 13	32. 0	22. 55:	·0985					
	***							
9. 38	42. 30							
	***							
10. 0	30. 30							
	***							
10. 30	39. 0							
	***							
20. 0	35. 0							
23. 55	46. 0							
Aug.17		Aug.17		Aug.17				
0. 32	22. 46. 20	1. 0	·0991	0. 0	(†)	1	63 ·0	
2. 0	46. 40	5. 56	·1007	9. 30	·00450	3	65 ·0	
	***	23. 18	·0980	15. 38	·00672	9	63 ·0	
8. 10	34. 0			23. 55	·00635	21	57 ·5	
	***							
9. 28	37. 50							
10. 30	37. 5							
11. 36	42. 0							
12. 43	36. 0							
14. 30	39. 0							
19. 30	35. 30							
21. 8	43. 20							
23. 59	48. 0							
Aug.18		Aug.18		Aug.18				
2. 0	22. 50. 30	1. 0	·0990	0. 30	·00632	1	61 ·0	
10. 0	34. 0	6. 12:	·1017	4. 30	·00372	3	65 ·0	
23. 40	46. 30	9. 18	·0990	8. 20	·00400	9	62 ·5	
		9. 40	·1014	8. 30	·00468	23	57 ·0	
		10. 30:	·0999	16. 10	·00720			
		12. 7	·1033	23. 30	·00655			
		13. 33	·1001					
		16. 35	·1009					
			(†)					
		23. 30	·0979					
Aug.19		Aug.19		Aug.19				
0. 0	22. 48. 40	0. 30	·0982	0. 0	·00648	9	66 ·0	
2. 2	49. 0	2. 7	·1003	3. 30	·00375	21	62 ·0	
2. 14	48. 0	2. 33	·0934	20. 0	·00842			
2. 38	46. 30	3. 13	·1000	23. 55	·00808			
12. 0	38. 30	23. 55	·0965					
12. 25	38. 0							
12. 36	37. 30							
22. 30	41. 0							
Aug.20		Aug.20		Aug.20				
1. 40	22. 48. 20*	1. 8	·0966	1. 0	·00768	1	65 ·0	

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Aug.20	° ′ ″	h m		Aug.20			°	°
h m 3. 40	22. 48. 49*	10. 3:	·0997	h m 5. 25	·00468	3	68 ·0	
9. 40	30. 56*	23. 55	·0972	8. 30	·00568	9	70 ·0	
21. 40	37. 51*			10. 30:	·00520	21	64 ·0	
				19. 0	·00910			
				23. 55	·00865			
Aug.21		Aug.21		Aug.21				
1. 40	22. 48. 8*	1. 8	·0968	1. 0	·00868	1	65 ·0	
3. 40	46. 49*	2. 57	·1000	6. 47	·00500	3	70 ·0	
		6. 8	·0991	8. 10	·00630	9	68 ·0	
		7. 13	·1005	10. 7	·00590	21	67 ·0	
		7. 50	·0978	23. 0	·00930			
		8. 33	·0995					
			(†)					
		12. 40	·0986					
		16. 50	·1006					
		19. 30	·0982					
			(†)					
		21. 40	·0963*					
		23. 55	(†)					
Aug.22		Aug.22		Aug.22				
5. 0	22. 31. 0	1. 40	·0965*	1. 0	·00915	1	69 ·0	
8. 12	23. 0	3. 40	·0973*	9. 55	·00535	3	70 ·0	
10. 30	32. 20	9. 40	·0970*	10. 5	·00632	9	71 ·0	
12. 20	30. 0	21. 40	·0950*	15. 50	·00920	21	65 ·0	
12. 40	35. 0			18. 50	·00930			
13. 15	30. 40			23. 55	·00860			
15. 0	28. 50							
15. 35	36. 0							
17. 30	31. 0							
19. 26	30. 0							
20. 12	22. 45							
21. 0	29. 50							
23. 43	36. 53							
Aug.23		Aug.23		Aug.23				
0. 0	22. 37. 10	1. 40	·0970*	1. 15	·00812	1	67 ·0	
1. 40	39. 30	3. 40	·0983*	9. 30:	·00512	3	69 ·0	
6. 50	29. 20	9. 40	·0998*	21. 0	·00930	9	68 ·0	
11. 45	30. 30	21. 40	·0977*	23. 55	·00868	21	63 ·0	
12. 10	29. 0							
12. 25	30. 0							
12. 35	29. 25							
13. 0	32. 0							
13. 30	31. 30							
13. 50	29. 20							
14. 16	30. 15							
19. 30	27. 0							
22. 55	35. 30							

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

Aug. 20 and 21. The photographic lamp of the Declination Magnet was under alteration, to be adapted to the use of gas.

Aug. 22 and 23. The photographic lamp of the Horizontal Force Magnet was under alteration, to be adapted to the use of gas.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Aug. 24		Aug. 24		Aug. 24				
h m	° ′ ″	h m		h m			°	°
0. 0	(†)	1. 10	·0981	1. 30	·00637	1	67·0	
1. 40	22. 39. 33	15. 15	·1000	3. 50	·00437	3	70·0	
	(†)	22. 52	·0970	16·55	·00900	9	68·0	
3. 40	36. 21*			23. 55	·00840	21	63·0	
	(†)							
9. 40	29. 59*							
	(†)							
21. 40	32. 43*							
23. 55	(†)							
Aug. 25		Aug. 25		Aug. 25				
1. 30	22. 39. 30	1. 0	·0980	1. 15	·00718	1	69·0	
6. 30	27. 55	17. 50	·0989	2. 55	·00505	3	70·0	
12. 55	31. 5	22. 20	·0977	6. 20	·00548	9	72·0	
13. 10	32. 0			8. 30	·00655	22	66·0	
13. 30	30. 57			10. 0	·00640			
20. 30	27. 0			17. 18	·00997			
22. 15	31. 10			22. 20	·00942			
22. 25	32. 45							
Aug. 26		Aug. 26		Aug. 26				
1. 30	22. 38. 5	0. 0	·0978	0. 0	·00920	9	72·0	
7. 0	30. 45	3. 40:	·0996	4. 20	·00528	21	66·0	
7. 25	29. 0	23. 55	·0994	7. 0	·00535			
7. 45	30. 25			8. 0	·00630			
10. 0	27. 20			17. 42	·01022			
10. 35	29. 0			23. 30	·00895			
23. 59	36. 10							
Aug. 27		Aug. 27		Aug. 27				
0. 20	22. 37. 20	0. 28	·0992	0. 30	·00900	1	66·0	
11. 40	30. 0	0. 40	·1006	3. 22	·00920	3	67·0	
12. 12	25. 30	0. 55	·0985	6. 30	·00850	9	63·5	
12. 40	28. 30	2. 24	·1013	11. 35	·00930	21	62·0	
13. 10	25. 30	2. 50	·0992	20. 20	·00760			
14. 50	31. 0	3. 20	·1028	23. 30	·00780			
17. 25	24. 55	3. 53	·0993					
18. 35	28. 30	5. 10	·1014					
19. 45	25. 0	6. 55	·0998					
23. 30	38. 35	7. 27	·1024					
		8. 7	·1007					
		12. 30	·1025					
		23. 0	·0983					
Aug. 28		Aug. 28		Aug. 28				
0. 0	22. 38. 45	0. 7	·0981	0. 0	·00798	1	64·5	
9. 0	30. 45	0. 50	·1001	4. 50	·00388	3	70·0	
9. 29	31. 30	1. 30	·0981	8. 20	·00470	9	70·5	
10. 10	23. 50	3. 7	·1011	10. 35	·00398	21	66·0	
10. 45	29. 50	4. 2	·0987	20. 0	·00760			
10. 55	36. 0	10. 15	·1010	23. 15	·00682			
11. 10	32. 10	10. 42	·0995					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Aug. 28		Aug. 28						
h m	° ′ ″	h m		h m			°	°
11. 55	22. 30. 0	11. 55	·1020					
12. 17	27. 25	12. 12	·0993					
12. 40	29. 20	23. 25	·0978					
13. 30	26. 30							
15. 10	28. 55							
15. 30	28. 15							
16. 10	30. 30							
17. 10	28. 0							
23. 35	36. 0							
Aug. 29		Aug. 29		Aug. 29				
0. 40	22. 37. 20	0. 35	·0982	0. 0	·00680	1	68·0	
7. 40	32. 35	8. 50	·1007	5. 30	·00442	3	70·0	
8. 45	27. 30	23. 35	·0987	8. 30	·00513	9	72·5	
9. 40	31. 30			10. 45	·00465	21	70·0	
11. 55	31. 20			21. 50	·00907			
12. 15	34. 0			23. 15	·00810			
12. 40	32. 0							
17. 30	30. 15							
20. 35	27. 55							
21. 0	29. 5							
23. 55	36. 50							
Aug. 30		Aug. 30		Aug. 30				
1. 0	22. 38. 50	0. 40	·0986	1. 0	·00730	1	73·0	
12. 0	32. 10	9. 35:	·1003	10. 0:	·00498	3	74·0	
12. 25	34. 0	23. 30	·0980	23. 45:	·00862	9	72·0	
13. 20	31. 0					21	68·0	
22. 0	31. 10							
Aug. 31		Aug. 31		Aug. 31				
0. 45	22. 36. 55	1. 5	·0989	1. 0	·00840	1	70·0	
20. 10	26. 15	16. 30:	·1004	10. 20	·00552	3	70·0	
23. 40	37. 20	23. 1	·0986	17. 27	·00980	9	71·0	
				17. 35	·00920	21	65·0	
				18. 30	·00962			
				23. 55	·00828			
Sep. 1		Sep. 1		Sep. 1				
0. 0	22. 41. 30	1. 15:	·0990	0. 30	·00795	1	67·0	
6. 50	31. 0	11. 55	·1004	7. 10	·00425	3	70·0	
11. 40	31. 0	12. 23	·1015	8. 30	·00478	9	71·0	
12. 0	27. 20	13. 30	·1000	11. 40	·00440	22	70·0	
13. 40	29. 0	22. 52	·0978	21. 20	·00760			
14. 10	34. 50			23. 15	·00700			
14. 40	28. 55							
19. 42	27. 0							
23. 23	39. 40							
Sep. 2		Sep. 2		Sep. 2				
0. 0	(†)	2. 0	·0987	0. 0	·00680	9	75·0	
9. 40	22. 27. 47*	14. 15	·1000	2. 45	·00512	21	69·0	
	(†)							

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Sep. 2		Sep. 2		Sep. 2				
h m	° ′ ″	h m		h m			°	°
21. 40	22. 35. 36*	22. 40	·0966	5. 0:	·00560			
23. 55	(†)			9. 50	·00478			
				18. 50	·00992			
				22. 45	·00960			
Sep. 3		Sep. 3		Sep. 3				
0. 30	22. 40. 0	0. 40	·0975	0. 30	·00930	1	70 ·0	
7. 0	28. 0	11. 55	·1000	10. 0:	·00440	3	73 ·0	
11. 50	32. 35	12. 42:	·1011	17. 40	·00905	9	72 ·0	
13. 45	23. 35	14. 8	·0983	22. 18	·00915	21	65 ·0	
14. 35	27. 0	15. 37	·1007	23. 55	·00778			
15. 50	19. 25	17. 22	·0983					
16. 40	30. 10	18. 10	·0996					
17. 0	28. 0	20. 38	·0956					
17. 35	37. 0	23. 30	·0973					
19. 25	26. 0							
23. 50	42. 0							
Sep. 4		Sep. 4		Sep. 4				
0. 38	22. 43. 0	1. 0	·0961	1. 0	·00710	1	70 ·0	
12. 0	29. 10	10. 0	·1000	4. 8	·00452	3	73 ·0	
21. 40	24. 30	23. 30	·0964	9. 45	·00427	9	71 ·5	
23. 55	38. 0			17. 37	·00990	21	65 ·0	
				23. 45	·00750			
Sep. 5		Sep. 5		Sep. 5				
1. 40	22. 39. 15	1. 38	·0983	1. 0	·00645	1	70 ·0	
9. 30	29. 55	5. 42	·0976	2. 24	·00450	3	75 ·0	
11. 55	28. 0	17. 24:	·0999	4. 45	·00485	9	70 ·0	
20. 58	24. 25	23. 30	·0975	6. 50	·00430	21	64 ·0	
23. 55	31. 0			13. 18	·00972			
				23. 55	·00700			
Sep. 6		Sep. 6		Sep. 6				
8. 10	22. 29. 0	2. 22	·0977	1. 30	·00500	1	69 ·0	
9. 0	30. 20	17. 20	·1008	2. 22	·00390	3	75 ·0	
10. 35	28. 0	21. 0	·0995	4. 0:	·00425	9	69 ·0	
10. 45	24. 25	22. 50	·1007	6 26:	·00392	21	57 ·0	
11. 0	26. 0	23. 55	·0991	13. 20	·00933			
19. 55	24. 30			23. 55	·00812			
23. 55	31. 50							
Sep. 7		Sep. 7		Sep. 7				
0. 0	(†)	1. 30	·0996	1. 0	·00780	1	65 ·0	
1. 40	22. 34. 21*	6. 36	·0994	5. 6	·00292	3	69 ·0	
	(†)	11. 40	·1016	8. 0	·00330	9	65 ·0	
3. 40	36. 53*	23. 45	·0973	9. 50	·00300	21	58 ·8	
	(†)			16. 40	·00822			
9. 40	29. 1*			23. 55	·00775			
	(†)							
21. 45	27. 10*							
23. 55	(†)							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Sep. 8		Sep. 8		Sep. 8				
h m	° ′ ″	h m		h m			°	°
2. 25	22. 39. 0	1. 0	·0975	1. 0	·00710	1	63 ·0	
4. 0	36. 0	15. 25:	·1012	4. 55	·00285	3	69 ·0	
5. 5	29. 0	23. 0	·0987	8. 0	·00350	9	66 ·0	
5. 30	30. 0			9. 44	·00290	22	60 ·0	
9. 15	27. 45			17. 40	·00825			
9. 35	23. 30			23. 15	·00780			
9. 48	26. 25							
10. 30	28. 10							
11. 40	23. 55							
13. 20	29. 10							
14. 30	29. 0							
15. 0	38. 45							
16. 0	28. 55							
20. 10	24. 30							
23. 20	30. 0							
Sep. 9		Sep. 9		Sep. 9				
0. 0	22. 32. 0	0. 15	·0990	0. 0	·00770	11	65 ·0	
1. 40	36. 20	11. 10	·1004	5. 42	·00270	21	63 ·0	
9. 11	29. 10	11. 50	·1026	7. 40	·00325			
12. 10	10. 0	12. 26	·0997	10. 25	·00280			
13. 0	24. 0	23. 14	·0976	22. 15	·00705			
15. 10	30. 30			23. 14	·00702			
21. 8	23. 45							
22. 30	28. 50							
22. 52	28. 25							
Sep. 10		Sep. 10		Sep. 10				
1. 33	22. 35. 0	2. 10	·1000	1. 30	·00680	1	65 ·0	
2. 53	43. 0	3. 37	·0980	7. 50	·00360	3	68 ·0	
11. 10	23. 0	14. 0	·1025	9. 0	·00452	9	67 ·0	
13. 0	29. 50	23. 55	·0992	12. 0:	·00362	21	60 ·0	
14. 10	28. 50			20. 8	·00928			
14. 50	23. 8			23. 28	·00890			
15. 52	23. 40							
16. 45	27. 10							
20. 43	23. 5							
23. 55	27. 30							
Sep. 11		Sep. 11		Sep. 11				
0. 35	22. 32. 0	1. 5	·0976	1. 12	·00920	1	62 ·0	
7. 0	23. 40	14. 37:	·1021	6. 50	·00490	3	65 ·0	
10. 40	25. 35	23. 10	·0992	13. 30	·00892	9	62 ·0	
11. 12	20. 30			23. 55	·00675	21	55 ·0	
13. 40	27. 55							
23. 12	24. 45							
23. 28	31. 0							
23. 32	26. 25							
23. 40	30. 5							
Sep. 12		Sep. 12		Sep. 12				
0. 45	22. 31. 20	0. 40	·1000	1. 0	·00620	1	60 ·0	

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Sep. 12	° ′ ″	Sep. 12		Sep. 12			°	°
h m		h m		h m				
2. 12	22. 38. 0	1. 45	·1027	10. 0	·00320	3	65 ·0	
3. 0	34. 40	2. 25	·1011	23. 55	(†)	9	58 ·0	
3. 18	40. 50	14. 30	·1017			21	56 ·0	
5. 30	33. 30	14. 37	·1037					
6. 15	24. 55	15. 54	·1007					
6. 50	29. 0	16. 25	·1036					
7. 3	26. 0	17. 40	·0976					
8. 20	29. 25	17. 56	·1006					
9. 10	26. 35	18. 37	·0980					
9. 25	29. 30	18. 50	·1004					
15. 10	18. 30	23. 0	·0968					
15. 36	23. 30							
17. 10	6. 15							
17. 40	22. 10. 45							
18. 40	21. 55. 0							
	(†)							
23. 55	22. 17. 15							
Sep. 13		Sep. 13		Sep. 13				
1. 20	22. 25. 0	1. 10	·0983	1. 0	·00385	1	60 ·0	
1. 40	25. 50	2. 45	·1000	3. 14	·00185	3	63 ·0	
1. 45	30. 45	3. 14	·0983	5. 15	·00260	21	57 ·0	
2. 0	26. 0		***	8. 40	·00240			
2. 10	30. 55	4. 37	·0989	21. 30	·00622			
2. 35	22. 0	5. 10	·1015	23. 45	·00528			
2. 55	24. 20	5. 40	·0985					
4. 38	27. 55	13. 30	·0994					
4. 58	23. 0	13. 54	·1015					
8. 0	26. 30	17. 0	·0980					
9. 40	27. 40	17. 57	·0998					
10. 24	21. 50	18. 40	·0976					
14. 10	29. 20	20. 30	·0984					
20. 15	16. 50	22. 10	·0968					
23. 50	33. 0	23. 40	·0980					
Sep. 14		Sep. 14		Sep. 14				
0. 0	22. 34. 0	0. 0	·0984	0. 0	·00508	1	60 ·0	
1. 26	36. 50	11. 10	·0998	3. 53	·00170	3	63 ·0	
7. 25	22. 0	22. 0	·0971	7. 40	·00247	9	63 ·0	
11. 10	29. 0			10. 0	·00197	21	59 ·0	
20. 45	14. 10			23. 0	·00715			
23. 35	32. 30							
Sep. 15		Sep. 15		Sep. 15				
0. 30	22. 31. 55	0. 30	·0983	0. 30	·00695	1	65 ·0	
20. 30	26. 0	16. 25:	·1003	9. 40:	·00280	3	65 ·0	
21. 0	14. 5	23. 5	·0973	18. 37	·00792	9	61 ·0	
21. 40	14. 30			23. 15	·00650	22	59 ·0	
23. 25	34. 0							
Sep. 16		Sep. 16		Sep. 16				
0. 10	22. 37. 15	0. 0	·0977	0. 0	·00625	11	65 ·0	
7. 30	22. 0	1. 40	·0974	3. 22	·00292	21	61 ·0	
8. 0	18. 0	1. 45	·1003	7. 45	·00445			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Sep. 16	° ′ ″	Sep. 16		Sep. 16			°	°
h m		h m		h m				
8. 15	22. 21. 50	4. 3	·0968	14. 45	·00348			
14. 0	26. 0	7. 2	·0991	23. 15	·00845			
14. 33	31. 0	8. 21	·0971					
15. 5	23. 0	16. 52	·1005					
17. 0	19. 30		***					
19. 8	31. 50	22. 55	·0963					
21. 0	23. 50							
23. 55	29. 20							
Sep. 17		Sep. 17		Sep. 17				
1. 0	22. 31. 0	1. 0	·0980	1. 0	·00822	1	63 ·0	
9. 0:	14. 15	4. 5	·0971	4. 10	·00505	3	65 ·0	
9. 33	18. 30	4. 47	·0999	11. 0	·00820	9	59 ·0	
9. 45	6. 40	5. 42	·0980	23. 45	·00635	21	50 ·0	
10. 20	21. 0	6. 20	·0995					
13. 40	28. 30	7. 13	·0975					
15. 40	24. 0	8. 3	·0998					
18. 20	27. 30	10. 5	·1018					
21. 0:	23. 55	10. 30	·0993					
23. 55	31. 25	17. 30:	·1023					
		23. 7	·0971					
Sep. 18		Sep. 18		Sep. 18				
0. 10	22. 32. 45	0. 35	·0983	0. 30	·00702	1	55 ·0	
4. 40	27. 0	4. 48	·0994	4. 52	·00285	3	60 ·0	
5. 0	19. 30	5. 7	·1029	7. 40	·00330	9	58 ·0	
5. 45	27. 15	5. 55	·0993	10. 30	·00210	21	55 ·0	
8. 5	22. 0	8. 20	·0989	23. 30	·00800			
8. 27	11. 15	8. 38	·1007					
8. 45	17. 30	9. 10	·0990					
13. 10	21. 5	12. 58	·1007					
13. 38	30. 35	15. 37	·0994					
14. 20	21. 10	16. 15	·1023					
14. 35	22. 0	21. 45	·0952					
14. 55	29. 50	23. 55	·0971					
16. 0	31. 50							
16. 40	24. 0							
19. 25	31. 45							
20. 25	26. 45							
22. 42	37. 55							
23. 55	34. 0							
Sep. 19		Sep. 19		Sep. 19				
0. 5	22. 34. 30	0. 5	·0978	0. 30	·00755	1	60 ·0	
10. 0	15. 30	9. 23	·0981	3. 22	·00380	3	65 ·0	
10. 30	22. 10	9. 40	·1010	7. 30	·00440	9	65 ·0	
11. 8	15. 55	10. 30	·0990	10. 25	·00375	21	58 ·0	
15. 30	28. 55	11. 10	·1015	19. 0	·00882			
16. 25	26. 0	11. 47	·0991	23. 30	·00870			
17. 15	35. 0	17. 40	·1013					
21. 0	22. 55	23. 5	·0979					
23. 55	29. 20							

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Sep. 20		Sep. 20		Sep. 20				
h m	° ′ ″	h m		h m			°	°
0. 30	22. 33. 0	0. 38	·0993	0. 30	·00857	1	60 ·0	
7. 55	19. 25	18. 22:	·1019	9. 34	·00418	3	64 ·0	
16. 5	26. 25	21. 3	·0985	18. 25	·00887	9	60 ·0	
16. 40:	32. 25	22. 0	·1000	20. 50	·00847	21	57 ·5	
17. 35	26. 45	23. 22	·0989	23. 45	·00875			
21. 0	30. 20							
21. 55	26. 50							
23. 55	33. 0							
Sep. 21		Sep. 21		Sep. 21				
0. 30	22. 34. 20	0. 30	·0989	0. 30	·00795	1	60 ·0	
2. 20	38. 50	2. 5	·0999	5. 55	·00330	3	65 ·0	
6. 40	27. 0	2. 24	·1018	7. 15	·00420	9	60 ·0	
7. 5	18. 55	4. 12	·1002	9. 0	·00350	21	60 ·0	
7. 35	26. 0	4. 22	·0972	21. 10	·00870			
10. 30	27. 0	4. 55	·1011	23. 30	·00800			
11. 25	22. 5	5. 33	·1001					
18. 25	27. 25	7. 10	·1023					
20. 45	20. 0	7. 47	·1004					
23. 55	34. 25	23. 25:	·0989					
Sep. 22		Sep. 22		Sep. 22				
0. 38	22. 34. 20	0. 45	·0995	1. 0	·00702	1	65 ·0	
10. 45	24. 0	9. 11	·1013	4. 0	·00380	3	65 ·0	
11. 10:	26. 25	23. 0	·0990	6. 25	·00355	9	63 ·0	
18. 30	26. 35			7. 30	·00407	22	60 ·0	
21. 30	20. 10			19. 45	·00995			
22. 55	23. 55			23. 0	·00867			
Sep. 23		Sep. 23		Sep. 23				
0. 0	22. 32. 5	0. 20	·0988	0. 0	·00845	8	62 ·5	
22. 0	7 . 25	1. 47	·0993	12. 0:	·00538	21	60 ·5	
23. 55	34. 30	2. 3	·1014	22. 30	·00805			
		2. 28	·1001	23. 55	·00712			
		4. 10	·1024					
		4. 35	·1013					
		4. 50	·1027					
		5. 28	·1001					
		7. 0	·1014					
		23. 30	·0980					
Sep. 24		Sep. 24		Sep. 24				
0. 50	22. 37. 30	1. 13	·0979	1. 0	·00635	1	63 ·0	
6. 5	28. 30	4. 43	·0998	3. 50	·00412	3	65 ·0	
6. 45	32. 0	5. 40	·0982	7. 15	·00505	9	61 ·5	
7. 5	4. 20	6. 0	·1005	9. 0	·00442	21	54 ·0	
8. 0	28. 50	7. 0	·0983	11. 10	·00615			
11. 8	25. 25	7. 12	·1023	11. 47	·00572			
11. 45	43. 0	7. 38	·0988	15. 7	·00913			
12. 25	20. 30	10. 40	·0996	17. 32	·00812			
20. 22	15. 0	11. 20	·1056	19. 45	·00870			
20. 29	23. 45	12. 7	·0963	22. 55	·00730			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Sep. 24		Sep. 24						
h m	° ′ ″	h m		h m			°	°
21. 45	22. 12. 0	12. 35	·1002					
22. 25	30. 30	15. 8	·0985					
23. 50	38. 0	17. 36	·1017					
		18. 52	·0990					
		23. 53	·0981					
Sep. 25		Sep. 25		Sep. 25				
0. 30	22. 36. 50	1. 0	·0983	0. 30	·00690	1	60 ·0	
5. 25	25. 30	3. 25	·0980	3. 0	·00390	3	65 ·0	
6. 30	29. 0	4. 10	·0991	4. 30	·00465	9	61 ·0	
	***	5. 8	·0967	8. 45	·00385	21	56 ·0	
13. 38	27. 15	5. 40	·0991	14. 42	·00930			
16. 20	27. 35	7. 40	·0990	17. 30	·00882			
19. 12	17. 10	8. 5	·1011	19. 37	·00920			
22. 5	3. 40	8. 50	·0990	22. 55	·00800			
22. 50	3. 30	19. 0:	·1012					
		21. 38:	·0997					
		23. 0	·1000					
Sep. 26		Sep. 26		Sep. 26				
0. 0	22. 20. 0	0. 13	·0991	0. 0	·00730	9	63 ·5	
0. 40	30. 0	18. 10:	·1009	2. 55	·00366	21	63 ·0	
	(†)	23. 8	·0974	4. 33	·00425			
5. 23	30. 30			6. 30	·00398			
19. 52	14. 0			7. 40	·00475			
21. 42	14. 45			11. 0	·00428			
21. 59	16. 25			22. 15	·00805			
23. 0	33. 15			23. 55	·00767			
Sep. 27		Sep. 27		Sep. 27				
0. 30	22. 32. 50	1. 10	·0981	1. 30	·00615	1	65 ·0	
8. 40	27. 30	5. 37	·0993	3. 5	·00427	3	69 ·0	
9. 20	8. 0	6. 9	·1022	6. 5	·00410	9	65 ·0	
9. 50	20. 0	6. 52	·1001	9. 38	·00500	21	62 ·0	
11. 38	24. 30	9. 7	·0979	12. 15	·00450			
12. 0	32. 15	11. 12	·1001	21. 30	·01035			
13. 0	15. 55	11. 35	·0992	23. 55	·00995			
14. 20	28. 0	12. 6	·1019					
19. 40	13. 50	12. 47	·0982					
21. 0	18. 25	13. 14	·0999					
21. 25	24. 30	23. 52:	·0966					
21. 50	13. 50							
23. 0	31. 25							
Sep. 28		Sep. 28		Sep. 28				
1. 0	22. 33. 30	1. 0	·0974	1. 30	·00895	1	65 ·0	
	***	2. 45	·0985	5. 0:	·00550	3	69 ·0	
9. 50	15. 30	3. 5	·0965	7. 0:	·00690	9	67 ·0	
11. 5	26. 0	10. 5	·0986	11. 30	·00600	21	63 ·5	
12. 30	21. 40	10. 50	·0983	23. 55	·00930			
17. 50	31. 0	11. 27	·1019					
21. 0	21. 40	12. 15	·0982					

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Sep. 28		Sep. 28						
h m	° ′ ″	h m		h m			°	°
21. 38	22. 28. 50	13. 50:	·1000					
22. 10	26. 0	14. 45	·0985					
	***	18. 0:	·1007					
23. 45	35. 0	23. 25	·0968					
Sep. 29		Sep. 29		Sep. 29				
0. 0	22. 34. 10	0. 7	·0972	0. 30	·00932	1	65 ·0	
8. 25	26. 0	12. 30	·0989	8. 45	·00595	3	67 ·0	
13. 40	32. 55	13. 0	·1019	19. 45	·00905	9	66 ·0	
15. 20	22. 0	13. 35	·1007	20. 40	·00878	22	65 ·0	
16. 5	34. 20	13. 55	·1021	23. 30	·00985			
16. 33	26. 30	15. 55	·0999					
17. 10	31. 0	16. 20	·1018					
23. 30:	34. 30	17. 5	·0994					
		23. 15:	·0971					
Sep. 30		Sep. 30		Sep. 30				
0. 0	22. 37. 0	0. 30	·0974	0. 0	·01000	8	63 ·0	
18. 0:	24. 45	5. 25	·0999	7. 5	·01180	21	63 ·0	
21. 10	23. 0	6. 47	·0924	13. 30	·01062			
23. 41	30. 0	11. 38	·1012	19. 30	·01200			
		21. 55	·0983	22. 30	·01100			
			(†)					
		23. 41	·0982					
Oct. 1		Oct. 1		Oct. 1				
2. 0	22. 34. 50	1. 5	·0978	2. 30	·01525	1	61 ·0	
10. 40	21. 10	11. 43	·1006	5. 0	·01635	3	65 ·0	
11. 40	22. 50	23. 28	·0989	12. 12	·01452	9	60 ·0	
12. 5	25. 50			19. 50:	·01480	21	58 ·0	59 ·5
12. 30	20. 0			23. 55	·01428			
22. 0	10. 5							
22. 55	12. 35							
23. 55	13. 0							
Oct. 2		Oct. 2		Oct. 2				
1. 20	22. 27. 5	0. 30	·0996	0. 30	·01300	1	58 ·5	60 ·0
5. 10	23. 0	5. 20	·0992	5. 30	·01190	3	60 ·0	61 ·0
5. 35	16. 25	5. 50	·1014	5. 50	·01215	9	58 ·5	60 ·0
5. 55	19. 50	6. 55	·0990	8. 30:	·01172	21	54 ·0	55 ·0
7. 45	21. 30	8. 5	·1003	20. 0	·01350			
11. 35	18. 55	8. 50	·0996	23. 30	·01308			
12. 22	20. 20	11. 10	·1005					
14. 5	13. 45	12. 0	·1030					
21. 53	6. 15	12. 30	·1007					
22. 2	2. 0	18. 15	·1017					
22. 50	2. 25	23. 0	·0989					
Oct. 3		Oct. 3		Oct. 3				
	(†)	1. 0	·0996	0. 30	·01135	1	55 ·0	56 ·5
		9. 28	·1004	2. 35	·01038	3	59 ·0	60 ·0
		10. 12	·1022	7. 0:	·01235	9	60 ·0	62 ·5

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
		Oct. 3						
h m	° ′ ″	h m		h m			°	°
		11. 10	·1002	12. 0	·01180	21	59 ·0	62 ·0
		18. 10	·1008	23. 30	·01435			
		23. 0	·0984					
Oct. 4		Oct. 4		Oct. 4				
3. 10	22. 30. 0	1. 0	·0990	1. 0	·01430	1	60 ·0	62 ·0
19. 42	15. 30	18. 0:	·1019	4. 40:	·01182	3	61 ·0	63 ·5
21. 20	26. 10	23. 7:	·0990	12. 20	·01452	9	59 ·0	60 ·5
21. 50	15. 0			21. 15	·01248	21	50 ·5	54 ·5
22. 30	33. 0			23. 40	·01300			
23. 55	36. 10							
Oct. 5		Oct. 5		Oct. 5				
0. 35	22. 35. 30	0. 37	·0993	0. 30	·01270	1	54 ·5	57 ·0
	***	7. 10:	·1026	10. 0:	·01000	3	56. 5	58 ·5
3. 55	36. 0	23. 50	·0998	20. 40	·01340	9	57 ·5	61 ·5
	(†)			23. 0	·01300	21	53 ·5	57 ·5
10. 45	27. 0							
11. 35	25. 0							
	***							
17. 0	31. 0							
	***							
23. 55	34. 10							
Oct. 6		Oct. 6		Oct. 6				
1. 25	22. 38. 30	0. 50	·1001	1. 0	·01338	1	54 ·8	56 ·0
7. 8	28. 0	12. 35	·1030	12. 40	·00960	3	57 ·0	59 ·0
12. 30	28. 55	22. 53	·0993	19. 55	·01116	9	58 ·0	60 ·0
13. 25	22. 0			23. 25	·01037	22	55 ·0	56 ·5
17. 0	32. 0							
20. 10	25. 0							
23. 25	31. 25							
Oct. 7		Oct. 7		Oct. 7				
0. 20	22. 35. 0	0. 36	·0989	0. 0	·01062	10	60 ·0	62 ·0
2. 12	40. 50	7. 18	·1013	1. 38	·01005	21	56 ·0	57 ·7
11. 31	29. 35	11. 40	·0997	11. 17	·01150			
12. 20	23. 30	15. 45	·1013	16. 10:	·01138			
13. 38	28. 0	22. 15	·0983	23. 0	·01385			
15. 18	29. 20							
16. 10	22. 20							
17. 5	31. 50							
18. 0	26. 0							
21. 0	27. 0							
23. 55	33. 10							
Oct. 8		Oct. 8		Oct. 8				
0. 30	22. 38. 0	1. 6	·0988	0. 45	·01485	1	59 ·0	62 ·5
	***	15. 40:	·1017	2. 30	·01500	3	60 ·0	62 ·5
21. 8	27. 55	23. 40:	·1000	8. 25:	·01283	9	58 ·0	62 ·5
	***			12. 10	·01515	21	49 ·0	52 ·5
23. 40	34. 40			23. 40:	·01306			

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

The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Oct. 9		Oct. 9		Oct. 9				
h m	° ′ ″	h m		h m			°	°
0. 30	22. 36. 35	0. 30	·1004	1. 0	·01320	1	51·8	54·0
8. 5	27. 55	19. 50	·1029	6. 30	·00968	3	53·0	55·0
21. 15	28. 25	23. 20	·1001	11. 0	·00922	9	54·0	56·0
23. 55	36. 10			17. 50	·01342	21	46·5	52·0
				22. 40	·01295			
Oct. 10		Oct. 10		Oct. 10				
0. 45	22. 35. 10	0. 28	·1000	1. 0	·01056	1	50·0	54·0
5. 8	33. 55	2. 53	·1014	2. 37	·00950	3	56·0	58·4
6. 0	26. 40	5. 17	·0988	6. 20	·01098	9	55·5	57·0
6. 50	33. 5	7. 43	·1025	10. 30	·00950	21	50·0	51·0
9. 15	24. 0	8. 50	·1003	15. 50	·01415			
9. 40	16. 0	9. 15	·1015	23. 50	·01380			
10. 15	27. 55	10. 3	·1003					
10. 33	15. 55	10. 15	·1015					
11. 15	28. 10	10. 25	·1007					
14. 20	26. 55	10. 45	·1037					
15. 40	30. 20	11. 25	·1000					
20. 43	26. 0	13. 0	·1027					
23. 55	36. 55	23. 40	·1011					
Oct. 11		Oct. 11		Oct. 11				
1. 0	22. 40. 5	1. 0	·1016	1. 0	·01305	1	53·0	55·8
4. 15	34. 45	3. 10	·0994	2. 57	·01008	3	57·0	59·0
4. 33	29. 30	4. 42	·1013	6. 40:	·01105	9	57·0	59·3
4. 54	33. 0	5. 10	·0997	10. 50	·01035	21	51·5	53·5
7. 10	32. 15	6. 55	·1010	18. 50	·01500			
7. 27	29. 15	7. 50	·0995	23. 45	·01484			
7. 45	32. 30	8. 3	·1006					
7. 57	28. 45	8. 14	·0986					
8. 5	32. 30	8. 33	·1003					
8. 27	26. 0	8. 50	·0989					
8. 42	32. 0	11. 0	·0997					
9. 8	26. 15	11. 35:	·1015					
9. 40	29. 30	12. 0	·1000					
11. 7	27. 0	18. 50:	·1011					
23. 50	34. 0	23. 20:	·0992					
Oct. 12		Oct. 12		Oct. 12				
0. 32	22. 35. 55	0. 32	·0995	0. 40	·01472	1	56·0	57·7
	***	16. 50:	·1018	4. 40	·01065	3	58·0	59·5
21. 3	28. 0	23. 25:	·1000	7. 0:	·01078	9	55·0	57·4
23. 52	35. 55			9. 50:	·01030	21	49·5	54·0
				17. 40	·01500			
				23. 30	·01450			
Oct. 13		Oct. 13		Oct. 13				
0. 40	22. 38. 10	0. 40	·1008	1. 0	·01475	1	54·0	56·6
14. 0	30. 5	13. 7	·1018	10. 2:	·00955	3	55·0	57·0
15. 0:	18. 0	14. 20	·1037	21. 25	·01425	9	53·0	57·5
16. 35	30. 20	15. 32	·1004	23. 30	·01393	22	48·0	51·0
18. 30	33. 0	19. 5	·1021					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Oct. 13		Oct. 13						
h m	° ′ ″	h m		h m			°	°
21. 0	22. 27. 0	23. 10	·0991					
23. 8	35. 35							
Oct. 14		Oct. 14		Oct. 14				
0. 0	22. 36. 0	0. 0	·1000	0. 0	·01212	9	50·5	55·0
5. 17	39. 0	1. 23	·1020	3. 0	·01272	21	48·0	53·0
5. 55	23. 40	2. 50	·0999	4. 40	·01220			
6. 43	22. 31. 0	3. 15	·1006	7. 0	·01342			
7. 20	21. 55. 40	3. 38	·0990	10. 30	·01190			
8. 35	22. 27. 10	4. 32	·1018	16. 15	·01472			
9. 0	20. 0	5. 54	·0990	18. 50	·01340			
9. 20	24. 25	6. 25	·1003	23. 0	·01445			
9. 53	22. 45	6. 50	·0992					
12. 8	34. 0	7. 30	·1065					
14. 30	30. 50	8. 50	·0983					
15. 33	38. 30	10. 3	·1022					
16. 22	27. 15	16. 30	·0998					
16. 45	32. 30	17. 38	·1020					
17. 22	37. 45	20. 57	·0978					
18. 45	36. 15		***					
19. 45	29. 15	23. 15	·0980					
20. 8	35. 15							
21. 45	28. 30							
23. 40	39. 30							
Oct. 15		Oct. 15		Oct. 15				
1. 0	22. 37. 5	1. 0	·0992	1. 0	·01458	1	49·0	54·5
9. 0	27. 40	10. 10	·1007	5. 33	·01028	3	56·0	57·0
10. 40	35. 10	10. 32	·1032	10. 50	·00940	9	55·0	57·5
12. 30	27. 30	11. 6	·1007	18. 33	·01458	21	46·0	53·0
15. 0	33. 5	23. 30:	·0998	23. 0	·01382			
22. 0	29. 0							
23. 55	36. 55							
Oct. 16		Oct. 16		Oct. 16				
0. 30	22. 36. 5	0. 30	·0997	0. 30	·01423	1	51·0	55·5
5. 0	32. 5	2. 50	·1003	4. 10	·01070	3	58·0	57·0
5. 45	17. 15	3. 40	·0991	6. 0	·01140	9	57·0	60·0
6. 40:	30. 50	4. 30	·1006	11. 0	·01035	21	54·0	57·5
8. 30:	27. 5	5. 32	·0937	23. 30	·01255			
23. 30	36. 0	5. 58	·1012					
		18. 38:	·1013					
		23. 0:	·0991					
Oct. 17		Oct. 17		Oct. 17				
0. 30	22. 37. 0	1. 6	·0992	0. 30	·01205	1	59·5	63·0
8. 10	26. 55	9. 0	·0994	1. 25	·01118	3	63·0	65·5
9. 0	30. 0	9. 42	·1034	6. 40	·01235	9	63·0	67·0
10. 53	23. 30	11. 21	·0988	10. 5	·01178	21	59·5	63·0
13. 0	28. 30	18. 7:	·1008	23. 0	·01645			
13. 40	33. 0	22. 50	·0972					
14. 18	29. 20	23. 55	·0984					

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Oct. 17								
h m	° ′ ″	h m		h m			°	°
19. 0	22. 28. 30							
20. 10	26. 50							
23. 55	33. 30							
Oct. 18		Oct. 18		Oct. 18				
1. 0	22. 38. 35	1. 10	·0985	0. 30	·01630	1	60·0	66·0
7. 35	28. 0	2. 48	·0975	4. 0	·01290	3	67·0	69·0
8. 43	14. 10	5. 55	·0993	6. 0	·01280	9	65·0	68·0
9. 20	24. 0	7. 50	·0977	6. 15	·01352	21	58·0	61·0
11. 30	24. 20	8. 42	·1009	9. 45	·01310			
11. 47	33. 0	9. 25	·0989	14. 10	·01712			
12. 40	22. 10	9. 37	·1003	23. 30	·01660			
18. 0	33. 50	11. 10	·0984					
21. 0	25. 0	20. 10	·1009					
23. 55	34. 0	23. 50:	·0980					
Oct. 19		Oct. 19		Oct. 19				
1. 0	22. 37. 0	1. 0	·0986	1. 0	·01625	1	62·0	65·0
6. 55	30. 0	6. 28	·1006	4. 18	·01250	3	65·0	67·7
7. 47	19. 30	8. 20	·0978	7. 12	·01320	9	65·5	69·2
8. 40	28. 30	12. 20	·0993	10. 30	·01225	21	62·5	64·0
12. 12	27. 45	12. 45	·1012	19. 45:	·01735			
12. 35	30. 30	14. 13	·0993	23. 55:	·01725			
13. 0	25. 30	18. 20:	·1004					
21. 30	26. 55	23. 55:	·0981					
23. 55	36. 20							
Oct. 20		Oct. 20		Oct. 20				
1. 0	22. 36. 35	1. 10	·0988	1. 0	·01665	1	66·0	67·0
7. 20	29. 55	3. 45	·0998	5. 30	·01285	3	66·0	66·0
7. 32	23. 10	4. 53	·0980	9. 18	·01262	9	65·0	67·7
8. 10	28. 0	6. 30	·1000	17. 42	·01750	23	60·0	64·0
9. 40	29. 40	6. 55	·0985		(†)			
13. 42	27. 0	7. 55	·1000	20. 54	·01750			
14. 35	30. 20	9. 10	·0988	23. 30	·01690			
15. 50	26. 5	15. 33	·1004					
19. 10	28. 5	23. 30	·0989					
21. 25	27. 0							
23. 30	36. 20							
Oct. 21		Oct. 21		Oct. 21				
0. 0	22. 37. 0	0. 30	·0986	0. 0	·01695	9	59·0	63·5
1. 30	40. 30	13. 45:	·1019	2. 25	·01720	21	54·0	56·5
	***	15. 7	·1000		(†)			
13. 0:	26. 30	17. 40:	·1021	9. 48	·01715			
	***	21. 23	·0968	23. 30	·01540			
14. 20:	20. 0	22. 30	·1000					
	***	23. 40	·0985					
15. 38:	30. 0							
	***							
17. 0:	26. 30							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Oct. 21								
h m	° ′ ″	h m		h m			°	°
20. 30	22. 31. 0							
21. 42	40. 55							
22. 20	33. 20							
23. 55	39. 0							
Oct. 22		Oct. 22		Oct. 22				
1. 30	22. 46. 0	1. 45	·0981	3. 0	·01240	1	56·0	58·8
2. 35	42. 0	2. 25	·0993	6. 50	·01312	3	60·0	61·7
3. 5	53. 10	2. 40	·0981	8. 8	·01180	9	60·0	62·0
3. 56	28. 20	3. 2	·1011	8. 32	·01253	21	59·0	61·7
4. 8	31. 50	3. 30	·0975	8. 55	·01205			
4. 20	28. 0	4. 3	·1014	9. 33	·01400			
4. 38	40. 50	4. 18	·0998	10. 35	·01140			
5. 37	45. 10	4. 37	·1010	23. 55	·01210			
7. 0	23. 55	6. 10	·0972					
7. 18	18. 0	6. 50	·0997					
7. 46	29. 10	6. 55	·0971					
8. 0	23. 0	7. 6	·0990					
8. 15	32. 55	7. 12	·0975					
8. 42	26. 50	7. 35	·1015					
9. 0	32. 40	7. 55	·0977					
9. 38	9. 35	9. 3	·0944					
9. 42	37. 35	9. 40	·1017					
10. 0	16. 10	9. 42	·0954					
10. 10	25. 10	10. 2	·0987					
10. 20	15. 30	10. 14	·0954					
10. 30	32. 0	10. 23	·0980					
10. 48	23. 20	10. 36	·0954					
14. 0	33. 0	11. 0	·0977					
20. 6	27. 10	23. 30	·0965					
23. 55	35. 30							
Oct. 23		Oct. 23		Oct. 23				
1. 0	22. 37. 10	1. 25	·0967	1. 0	·01192	1	62·0	63·5
8. 30	26. 0	9. 0	·0985	2. 18	·01152	3	65·0	65·8
9. 20	15. 30	9. 31	·1026	7. 15	·01240	9	64·0	65·0
	***	10. 38	·0982	10. 10	·01145	21	58·5	63·0
10. 0	28. 0	12. 55	·1001	20. 55	·01492			
	***	17. 17	·0987	23. 0	·01470			
13. 10:	33. 0	18. 52:	·1004					
14. 40:	28. 0	23. 12	·0959					
	***							
18. 52:	36. 0							
21. 5	26. 0							
23. 55	33. 0							
Oct. 24		Oct. 24		Oct. 24				
0. 42	22. 35. 30	0. 45	·0969	0. 45	·01510	1	61·0	63·4
1. 50	40. 0	1. 50	·0977	4. 40	·01278	3	64·0	66·0
7. 0	30. 0	2. 40	·0964	10. 0	·01190	9	63·0	66·0
7. 50	24. 25	3. 10	·0982	16. 15	·01490	21	59·5	62·5
8. 10	27. 50	10. 30	·0985	23. 30	·01490			

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^{m} in Göttingen time.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Oct. 24		Oct. 24						
h m	° ′ ″	h m		h m			°	°
8. 32	22. 24. 40	11. 38	·1011					
9. 38	30. 0	14. 17	·0985					
10. 25	28. 0	17. 25:	·1006					
	***	21. 25	·0970					
11. 30:	33. 40	23. 37	·0976					
	***							
13. 40	25. 0							
	***							
14. 22:	28. 0							
	***							
15. 0	34. 0							
17. 18	29. 0							
23. 55	36. 0							
Oct. 25		Oct. 25		Oct. 25				
1. 0	22. 36. 35	1. 0	·0981	1. 0	·01500	1	61 ·0	62 ·4
3. 0	39. 50	3. 15	·0966	6. 0	·01230	3	64 ·0	65 ·5
3. 40	31. 0	3. 52	·0986	10. 15	·01152	9	63 ·0	67 ·0
4. 0	33. 40	8. 20	·0991	23. 55	·01480	21	61 ·0	64 ·0
6. 40:	29. 50	8. 37	·1007					
7. 30	30. 30	9. 0	·0985					
8. 35	24. 12	9. 58	·1009					
10. 5	31. 0	10. 20	·0990					
	***	16. 36	·1006					
11. 8:	26. 15	23. 35	·0977					
	***							
17. 55	32. 10							
19. 30	33. 0							
20. 30	30. 50							
23. 55	37. 0							
Oct. 26		Oct. 26		Oct. 26				
1. 0	22. 38. 0	1. 33	·0973	1. 0	·01500	1	62 ·0	64 ·8
4. 55	28. 55	4. 20	·0990	8. 15	·01325	3	64 ·0	66 ·0
6. 30	31. 10	4. 50	·0979	12. 20	·01512	9	59 ·5	64 ·0
8. 0	30. 0	5. 15	·0995	23. 55	·01455	21	56 ·0	61 ·0
8. 20	25. 50	8. 35	·1011					
	***	9. 26	·1000					
9. 10	30. 25	23. 55	·0974					
	***							
9. 39	22. 30							
	***							
13. 40	32. 0							
	***							
17. 50	34. 50							
21. 0	28. 45							
23. 55	35. 55							
Oct. 27		Oct. 27		Oct. 27				
1. 0	22. 37. 30	0. 0	(†)	3. 30	·01330	1	57 ·7	60 ·0
6. 37	30. 30	1. 40	·0988*	5. 57	·01138	3	60 ·0	63 ·0
	(†)		(†)	7. 30	·01175	9	62 ·5	66 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Oct. 27		Oct. 27		Oct. 27				
h m	° ′ ″	h m		h m			°	°
10. 12	22. 26. 15	4. 30	·0992	16. 0	·01120	22	60 ·0	63 ·0
16. 30	30. 30	7. 10	·0992	23. 30	·01200			
16. 45	34. 15	7. 30	·1019					
17. 10	32. 30	8. 30	·0988					
17. 37	35. 0	13. 0	·0998					
18. 10	30. 0		(†)					
	(†)	16. 10	·1000					
22. 10	30. 0	23. 20	·0978					
23. 25	32. 25							
Oct. 28		Oct. 28		Oct. 28				
0. 0	22. 34. 0	0. 10	·0978	0. 0	·01212	10	59 ·0	62 ·0
1. 50	38. 10	1. 40	·0967	3. 15	·01152	21	57 ·0	61 ·0
12. 0	30. 55	9. 20:	·0997	16. 50	·01545			
12. 32	27. 0	23. 1	·0977	23. 16	·01490			
13. 30	31. 20							
14. 30	29. 5							
15. 10	31. 30							
20. 48:	27. 55							
22. 58	31. 55							
Oct. 29		Oct. 29		Oct. 29				
1. 0	22. 37. 0	1. 0	·0984	1. 0	·01506	1	61 ·0	63 ·0
8. 2	32. 5	7. 35	·1005	6. 8	·01135	3	60 ·0	62 ·5
8. 45	22. 30	8. 30	·0978	10. 15	·01110	9	60 ·0	63 ·3
9. 27	27. 30	9. 27	·0993	15. 48	·01455	21	53 ·0	57 ·0
12. 0	25. 30	17. 40	·1021	23. 30	·01380			
13. 0	33. 30	23. 30	·0991					
	***							
13. 45:	27. 30							
	***							
15. 0:	26. 0							
	***							
17. 0:	34. 0							
	***							
21. 52	28. 0							
23. 30	36. 55							
Oct. 30		Oct. 30		Oct. 30				
1. 0	22. 35. 0	1. 0	·1006	1. 0	·01390	1	57 ·0	59 ·0
7. 42	26. 50	7. 32	·1002	4. 7	·01080	3	62 ·0	63 ·4
8. 20	33. 0	7. 37	·1038	8. 40	·00990	9	59 ·0	62 ·0
9. 5	21. 41	8. 42	·0956	9. 10	·01070	21	54 ·0	58 ·0
9. 50	27. 0	9. 10	·1029	11. 8	·00995			
11. 5	30. 10	9. 38	·0995	14. 30	·01135			
11. 30	19. 45		***	15. 20	·01020			
11. 45	22. 0	15. 12	·1023	23. 55	·01427			
12. 10	16. 0	17. 4	·0964					
12. 25	16. 0	17. 40	·0996					
12. 53	27. 0	18. 0	·0965					
13. 0	23. 0	19. 33	·0999					
13. 5	26. 10	23. 50:	·0977					

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Oct. 30								
h m	° ′ ″	h m		h m			°	°
1. 45	22. 22. 40							
14. 40	32. 55							
15. 43	12. 55							
15. 55	14. 0							
16. 25	6. 25							
17. 20	26. 15							
17. 34	18. 0							
18. 38	36. 50							
21. 0	28. 50							
23. 55	35. 20							
Oct. 31		Oct. 31		Oct. 31				
1. 0	22. 35. 30	1. 0	·0981	1. 0	·01450	1	56 ·0	58 ·0
9. 0	28. 20	16. 40	·1015	2. 40	·01465	3	57 ·0	58 ·0
	***	23. 38:	·0993	8. 30:	·01090	9	55 ·0	58 ·5
14. 30	30. 50			14. 50	·01418	21	52 ·0	56 ·0
21. 5	28. 10			23. 55	·01370			
23. 55	34. 35							
Nov. 1		Nov. 1		Nov. 1				
1. 0	22. 35. 45	0. 58	·0997	0. 30	·01410	1	53 ·0	55 ·0
11. 20	28. 0	18. 15:	·1017	6. 42	·00982	3	55 ·0	58 ·8
12. 15	32. 30	23. 55	·0998	10. 53:	·00935	9	56 ·0	59 ·3
20. 0	26. 0			19. 33	·01370	21	51 ·0	54 ·5
21. 25	30. 10			23. 30	·01340			
21. 53	28. 40							
23. 52	35. 0							
Nov. 2		Nov. 2		Nov. 2				
1. 10	22. 35. 50	1. 0	·1004	1. 0	·01368	1	55 ·0	56 ·3
12. 0:	23. 0	18. 50:	·1019	4. 18	·01050	3	58 ·0	60 ·0
	***	23. 25	·0994	6. 5	·01080	9	59 ·0	62 ·0
15. 0:	30. 20			10. 30:	·00990	21	54 ·0	57 ·0
	***			18. 40	·01440			
20. 30	28. 0			23. 45	·01410			
23. 36	35. 10							
Nov. 3		Nov. 3		Nov. 3				
1. 14	22. 36. 55	1. 15	·0990	1. 0	·01420	1	54 ·0	57 ·0
2. 0	40. 10	20. 25:	·1015	6. 22	·01040	3	57 ·0	59 ·0
3. 0	34. 0	23. 30	·1004	12. 20	·00978	9	58 ·0	60 ·4
8. 40	31. 50			23. 50	·01230	22	55 ·0	58 ·5
9. 25	27. 20							
13. 30	31. 50							
20. 30	29. 0							
23. 30	33. 0							
Nov. 4		Nov. 4		Nov. 4				
0. 0:	22. 35. 0	0. 43	·0999	0. 0	·01240	9	56 ·5	60 ·5
10. 30:	30. 0	20. 15:	·1013	2. 25:	·01283	21	52 ·0	55 ·0
11. 53:	21. 30	21. 8	·0998	10. 0:	·01132			
12. 52:	30. 45	23. 30	·1002	19. 12	·01423			
Nov. 4								
h m	° ′ ″	h m						
23. 30:	22. 36. 0							
Nov. 5		Nov. 5						
1. 0	22. 35. 5	1. 0	·1006					
7. 55	26. 50	18. 3:	·1023					
12. 0:	28. 15	23. 30	·1009					
14. 54:	31. 50							
22. 0	28. 55							
23. 42	34. 40							
Nov. 6		Nov. 6						
0. 50	22. 36. 0	1. 43	·1012					
4. 0	26. 5	2. 32	·1023					
5. 38	30. 55	4. 30	·1006					
9. 27	24. 0	9. 37	·1029					
	***	23. 18	·1008					
15. 26	32. 20							
	***							
20. 50	27. 10							
23. 55	32. 0							
Nov. 7		Nov. 7						
0. 55	22. 33. 30	1. 30	·1013					
21. 0:	28. 0	4. 15:	·1019					
23. 55:	33. 0	23. 10	·0999					
Nov. 8		Nov. 8						
1. 0	22. 34. 10	1. 0	·1003					
8. 0:	25. 55	19. 25	·1012					
11. 15	26. 0	23. 30	·0996					
21. 30	27. 10							
23. 55	32. 0							
Nov. 9		Nov. 9						
1. 0	22. 33. 0	1. 0	·0997					
21. 30:	28. 5	18. 50	·1012					
23. 58	32. 15	23. 55	·1000					
Nov. 10		Nov. 10						
0. 47	22. 34. 0	1. 10	·1003					
3. 20	33. 0	7. 32	·1031					
5. 30:	34. 30	23. 22	·1002					
	***							
11. 15	28. 20							
	***							
16. 0	30. 0							
21. 0	28. 5							
23. 25	36. 35							

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Nov. 4		Nov. 4				
h m		h m			°	°
23. 30	·1009	23. 30	·01337			
Nov. 5		Nov. 5				
1. 0	·1006	1. 0	·01372	1	55 ·0	57 ·4
18. 3:	·1023	5. 10	·00986	3	59 ·0	60 ·7
23. 30	·1009	6. 0	·01002	9	55 ·0	58 ·0
		9. 45:	·00935	21	48 ·0	52 ·0
		16. 5	·01355			
		23. 0	·01295			
Nov. 6		Nov. 6				
1. 43	·1012	1. 0	·01318	1	51 ·0	53 ·5
2. 32	·1023	5. 38	·00905	3	55 ·0	57 ·0
4. 30	·1006	11. 0	·00852	9	53 ·5	57 ·0
9. 37	·1029	18. 10	·01293	21	46 ·0	50 ·0
23. 18	·1008	23. 55	·01287			
Nov. 7		Nov. 7				
1. 30	·1013	1. 0	·01308	1	49 ·0	52 ·0
4. 15:	·1019	5. 55	·00945	3	53 ·0	55 ·0
23. 10	·0999	20. 40:	·01050	9	56 ·0	58 ·0
		23. 30	·01005	21	59 ·0	62 ·5
Nov. 8		Nov. 8				
1. 0	·1003	1. 0	·01010	1	59 ·0	61 ·8
19. 25	·1012	9. 26	·01070	3	60 ·0	62 ·4
23. 30	·0996	23. 30	·01420	9	59 ·5	63 ·0
				21	59 ·0	60 ·5
Nov. 9		Nov. 9				
1. 0	·0997	1. 0	·01415	1	60 ·0	60 ·0
18. 50	·1012	8. 30:	·01130	3	60 ·0	60 ·0
23. 55	·1000	15. 40	·01370	9	59 ·0	62 ·0
		23. 0	·01330	21	56 ·5	58 ·5
Nov. 10		Nov. 10				
1. 10	·1003	0. 30	·01520	1	57 ·0	58 ·8
7. 32	·1031	9. 0:	·01010	3	60 ·0	61 ·0
23. 22	·1002	16. 20	·01450	9	58 ·5	60 ·5
		23. 30	·01400	22	54 ·0	55 ·0

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Nov. 11		Nov. 11		Nov. 11				
h m	° ′ ″	h m		h m			°	°
0. 0	22. 39. 0	0. 0	·0998	0. 0	·01420	11	56·0	57·5
7. 30	29. 25	0. 30	·0994	1. 15:	·01445	21	52·0	54·0
8. 20	24. 30	2. 21	·1005	5. 48	·01072			
12. 20	29. 0	4. 0	·0984	10. 0	·00995			
13. 0	37. 55	6. 22	·1000	17. 42	·01435			
13. 20	33. 10	8. 0	·0986	23. 0	·01385			
13. 30	34. 45	10. 0	·1005					
14. 20	23. 25	12. 37	·1002					
15. 12	29. 50	12. 58	·1023					
23. 58	34. 25	13. 15	·1007					
		18. 11	·1016					
		23. 0	·1007					
Nov. 12		Nov. 12		Nov. 12				
0. 25	22. 37. 0	1. 51	·1000	0. 30	·01402	1	53·0	54·0
10. 15	25. 55	18. 37	·1027	2. 22:	·01440	3	56·0	57·0
11. 2	29. 30	23. 38	·0983	12. 45:	·00890	9	56·0	57·5
12. 0	25. 0			23. 55	·01126	21	53·0	55·0
13. 30	29. 30							
18. 0	33. 10							
21. 59	30. 10							
23. 58:	39. 30							
Nov. 13		Nov. 13		Nov. 13				
1. 5	22. 40. 0	1. 15	·0991	2. 0	·00950	1	56·0	57·0
1. 15	45. 20	1. 42	·0975	5. 13	·01095	3	57·0	57·8
1. 45	39. 30	2. 20	·1000	10. 5	·00968	9	56·0	57·0
2. 35	43. 30	2. 53	·0975	19. 20	·01425	21	52·5	54·5
3. 8	32. 45	3. 18	·0998	23. 55	·01435			
3. 28	41. 5	3. 42	·0973					
4. 5	34. 10	4. 20	·0987					
5. 3	34. 30	5. 18	·0972					
5. 12	40. 30	6. 42	·0998					
5. 38	37. 45	19. 25	·1013					
9. 10	29. 0 ***	23. 17	·0989					
12. 8	26. 0 ***							
13. 16:	35. 0 ***							
17. 15:	28. 0 ***							
23. 30:	33. 0							
Nov. 14		Nov. 14		Nov. 14				
0. 10	22. 32. 55 ***	0. 38	·0991	0. 30	·01425	1	53·5	56·5
		13. 30	·1010	7. 20:	·01130	3	55·0	57·0
7. 53	31. 30 ***	14. 55	·1033	12. 0:	·01370	9	52·5	55·0
		16. 0	·1013	15. 20	·01260	22	46·0	47·0
8. 35	23. 30 ***	16. 30	·1025	23. 0	·01295			
		17. 45	·1009					
9. 6:	29. 45 ***	23. 0	·1009					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Nov. 14								
h m	° ′ ″	h m		h m			°	°
9. 52	22. 25. 0 ***							
11. 50	30. 0							
13. 14	26. 20 ***							
14. 0	29. 10 ***							
14. 25	22. 30 ***							
14. 55	35. 55 ***							
16. 8	25. 0 ***							
18. 30	30. 0 ***							
19. 55	31. 30 ***							
20. 32	23. 30 ***							
23. 30	31. 55							
Nov. 15		Nov. 15		Nov. 15				
1. 0	22. 34. 50	0. 0	·1012	0. 0:	·01292	9	49·0	50·0
6. 10	24. 0	6. 5	·1015	2. 30:	·01320	21	45·5	48·0
23. 50	36. 0	6. 30	·1039	10. 30:	·01050			
		7. 20	·1017	23. 0	·01265			
		12. 50	·1013 (†)					
		22. 3	·1023					
		22. 39	·1020					
Nov. 16		Nov. 16		Nov. 16				
1. 5	22. 34. 55	1. 30	·1019	1. 30	·01162	1	47·0	49·8
8. 12	26. 0 ***	5. 15	·1005	5. 7	·00870	3	51·0	52·5
		9. 0:	·1025	10. 15:	·00815	9	50·0	52·5
16. 30:	31. 30 ***	18. 40	·1029	18. 10	·01285	21	43·5	47·0
23. 38:	32. 50	23. 42	·1018	23. 30	·01278			
Nov. 17		Nov. 17		Nov. 17				
1. 0	22. 32. 0	1. 40	·1022	1. 15	·01315	1	46·0	48·0
11. 30:	28. 5	16. 40:	·1028	5. 37	·00892	3	50·0	51·0
14. 40:	30. 0	23. 30	·1018	10. 0:	·00830	9	48·0	49·8
23. 30	30. 25			23. 30	·01270	22	46·5	48·0
Nov. 18		Nov. 18		Nov. 18				
0. 0	22. 31. 0	0. 6	·1017	0. 0	·01270	9	48·5	52·0
7. 10	32. 55	6. 0	·1029	8. 40:	·00870	21	53·0	56·0
11. 5	25. 30	21. 30	·1003	23. 35	·00990			
16. 42	30. 50	23. 30	·1013					
17. 20	30. 0							
18. 0	28. 5							
19. 30	30. 30							

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Nov.18								
h m	° ′ ″	h m		h m			°	°
20. 0	22. 28. 55							
23. 34	35. 0							
23. 53	31. 20							
Nov.19		Nov.19		Nov.19				
0. 30	22. 35. 55	1. 33	·0987	1. 0	·01017	1	54·0	55·0
7. 35	26. 50	3. 50	·1006	6. 50	·01120	3	56·0	57·5
8. 10	30. 35	4. 30	·0983	10. 30	·01000	9	55·0	58·0
9. 20	22. 10	6. 55	·1006	21. 15	·01520	21	52·0	53·0
9. 55	30. 0	7. 20	·0992	23. 55	·01490			
10. 32	16. 30	7. 55	·1010					
10. 55	21. 20	8. 48	·1001					
11. 25	16. 0	9. 48	·1026					
12. 50	31. 20	10. 12	·1000					
14. 5	29. 0	10. 45	·1011					
14. 43	34. 55	11. 55	·0991					
18. 2	29. 25	12. 42	·1016					
20. 12	31. 50	13. 53	·0999					
21. 35	28. 30	18. 45	·1026					
23. 42	36. 10	23. 55	·0997					
Nov.20		Nov.20		Nov.20				
0. 30	22. 30. 30	1. 42	·0991	1. 0	·01524	1	52·0	52·8
2. 0	33. 30	4. 15	·1013	3. 45	·01555	3	52·0	53·0
5. 35	30. 0	6. 20	·1005	11. 25:	·01305	9	51·0	52·5
6. 40	18. 30	6. 50	·1023	23. 55	·01480	21	50·0	51·0
8. 10	31. 0	8. 30	·1010					
8. 38	21. 0	9. 10	·1049					
8. 46	24. 0	9. 42	·1010					
9. 2	19. 50	9. 52	·1017					
9. 30	32. 0	10. 22	·1005					
10. 30	21. 10	11. 0	·1017					
11. 8	24. 25	12. 3	·0999					
11. 40	18. 30	12. 52	·1017					
16. 40	33. 0	18. 15	·1022					
21. 35	28. 50	23. 14	·1004					
23. 58	32. 50							
Nov.21		Nov.21		Nov.21				
1. 5	22. 33. 15	1. 0	·1001	1. 30	·01458	1	53·0	54·0
9. 34	29. 50	16. 52	·1030	9. 0:	·01050	3	54·0	55·0
10. 50	23. 0	23. 12:	·1006	19. 37	·01470	9	52·5	56·0
13. 20	32. 40			23. 55	·01450	21	46·0	52·0
15. 7	29. 0							
19. 50	35. 10							
23. 58	36. 0							
Nov.22		Nov.22		Nov.22				
1. 0	22. 37. 55	2. 0	·1008	2. 30	·01425	1	48·0	51·8
5. 20	29. 10	17. 0:	·1026	9. 0:	·01235	3	48·0	52·0
6. 35	32. 30	22. 20	·1010	23. 45	·01405	9	48·0	51·8
9. 46	27. 25	23. 50	·1014			21	44·0	50·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Nov.22								
h m	° ′ ″	h m		h m			°	°
13. 30	22. 30. 50							
20. 40	28. 30							
23. 58	34. 20							
Nov.23		Nov.23		Nov.23				
1. 15	22. 32. 50	1. 30	·1016	1. 0	·01412	1	46·0	50·8
10. 30	30. 0	12. 30	·1033	9. 0	·00920	3	48·5	52·0
12. 22	25. 30	23. 48	·1000	23. 55	·01006	9	49·0	53·0
15. 8	30. 40					21	49·5	55·5
16. 18	29. 0							
23. 58	34. 0							
Nov.24		Nov.24		Nov.24				
2. 0	22. 32. 10	2. 0:	·1003	1. 30	·01012	1	50·0	55·0
8. 40	25. 30	7. 10:	·1034	14. 37	·01386	3	52·0	55·8
9. 42	27. 10	23. 30:	·1018	23. 30	·01330	9	49·5	54·0
11. 0	29. 10					22	44·0	48·0
12. 50	18. 5							
13. 55	27. 5							
15. 12	23. 55							
15. 50	32. 30							
23. 55	34. 20							
Nov.25		Nov.25		Nov.25				
0. 0	22. 34. 10	0. 3	·1015	0. 0	·01325	12	43·0	47·5
7. 30	30. 0	18. 30	·1039	5. 20:	·01375	21	40·0	45·0
8. 10	24. 10	23. 7	·1022	13. 20	·01270			
8. 50	29. 0			17. 4	·01360			
9. 20	26. 50			23. 0	·01312			
13. 10	31. 55							
14. 30	29. 25							
19. 45	35. 0							
21. 13	30. 50							
23. 58	32. 20							
Nov.26		Nov.26		Nov.26				
0. 40	22. 33. 30	1. 0	·1026	1. 0	·01328	1	43·0	46·0
3. 40	32. 0	6. 15	·1013	2. 30	·01345	3	45·0	48·0
5. 25	35. 30	6. 38	·1044	9. 0:	·01030	9	43·0	47·5
6. 33	21. 0	6. 58	·1027	15. 18	·01312	21	39·0	43·0
7. 12	35. 0	19. 23	·1043	23. 7	·01284			
8. 40	30. 50	22. 57	·1006					
20. 38	35. 50							
23. 52	40. 25							
Nov.27		Nov.27		Nov.27				
0. 50	22. 39. 40	1. 30	·1023	1. 0	·01272	1	37·5	43·0
6. 30	32. 55	4. 0	·1021	2. 35	·01292	3	42·0	47·0
6. 47	37. 0	4. 32	·1007	10. 30	·00885	9	42·0	45·5
8. 12	30. 0	5. 24	·1024	23. 55	·01285	21	39·0	43·0
8. 42	19. 0	8. 30	·1005					
9. 10	31. 0	8. 52	·1043					

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The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Nov.27		Nov.27						
h m	° ′ ″	h m		h m			°	°
14. 5:	22. 33. 30	9. 30	·1013					
18. 33	27. 35	19. 20	·1050					
19. 38	34. 45	20. 55	·0925					
19. 55	26. 0	22. 42	·1013					
21. 22	57. 30	23. 55	·1000					
21. 45	45. 0							
22. 50	36. 15							
23. 8	41. 45							
23. 55	38. 0							
Nov.28		Nov.28		Nov.28				
2. 0	22. 39. 50	4. 28	·1035	1. 0	·01302	1	40 ·0	44 ·0
2. 40	33. 55	9. 38	·1013	11. 55	·00768	3	41 ·0	44 ·8
2. 58	42. 0	9. 50	·0992	13. 40	·00772	9	43 ·0	46 ·8
3. 8	32. 0	10. 24	·1027	14. 50	·00718	21	44 ·0	47 ·5
3. 15	44. 0	11. 52	·0978	23. 55	·00885			
4. 7	34. 0	13. 0	·0971					
9. 28	31. 40	13. 47	·0997					
10. 5	10. 5	14. 3	·0981					
10. 45	9. 30	14. 35	·1006					
11. 38	15. 25	14. 50	·0996					
12. 0	8. 0	16. 27	·0992					
12. 55	25. 0	17. 7	·1017					
13. 23	18. 30	19. 32	·0995					
14. 0	33. 50	19. 55	·1029					
14. 15	28. 35	20. 52	·0990					
14. 38	35. 0	23. 48	·0990					
14. 55	26. 30							
16. 12	27. 0							
22. 58	33. 30							
Nov.29		Nov.29		Nov.29				
0. 50	22. 33. 30	1. 53	·0971	1. 15	·00930	1	49 ·0	50 ·0
1. 50	35. 0	2. 58	·0986	4. 55	·01113	3	51 ·0	52 ·5
3. 25	42. 0	3. 32	·0967	13. 10	·01050	9	50 ·0	52 ·0
3. 42	33. 0	4. 0	·0989	14. 30	·00883	21	49 ·0	52 ·0
4. 22	36. 25	4. 28	·0965	15. 30	·00955			
4. 50	16. 5	5. 10	·1009	17. 50	·09838			
5. 40	31. 0	5. 25	·0990	18. 18	·00882			
6. 25	33. 0	9. 20	·1009	19. 0	·00835			
8. 15	27. 0	10. 46	·0977	23. 55	·01032			
8. 32	29. 30	12. 6	·0995					
9. 12	19. 0	13. 0	·0961					
10. 50	20. 0	13. 15	·0977					
11. 0	25. 25	13. 43	·0960					
11. 50	23. 50	14. 5	·1019					
12. 33	8. 0	14. 51	·0990					
13. 40	34. 5	16. 25	·1013					
14. 38	16. 30	17. 20	·1070					
15. 5	23. 15	18. 45	·1008					
15. 40	20. 15	20. 16	·0965					
16. 8	24. 20	20. 40	·0988					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Nov.29		Nov.29						
h m	° ′ ″	h m		h m			°	°
16. 48	22. 16. 0	21. 38	·0948					
17. 20	40. 30	23. 18	·0994					
17. 48	28. 50	23. 33	·0973					
18. 23	48. 0	23. 50	·0980					
19. 0	39. 15							
19. 17	41. 0							
21. 12	30. 40							
22. 8	43. 50							
23. 30	31. 20							
23. 58	35. 30							
Nov.30		Nov.30		Nov.30				
1. 27	22. 35. 50	1. 46	·0975	1. 30	·01060	1	51 ·0	53 ·0
3. 33	28. 30	5. 40	·1004	5. 33	·01160	3	53 ·0	55 ·0
6. 30	30. 50	7. 20	·0976	5. 37	·01282	9	55 ·0	58 ·0
7. 52	18. 25	8. 0	·0993	7. 15	·01180	21	49 ·0	52 ·0
8. 32	25. 10	8. 45	·0959	7. 55	·01220			
9. 0	23. 0	9. 4	·0971	12. 37	·01138			
9. 12	27. 0	10. 12	·0947	23. 55	·01645			
9. 50	17. 30	10. 30	·0957					
10. 55	24. 50	11. 0	·0944					
11. 35	16. 55	11. 12	·0982					
11. 50	17. 0	12. 28	·0950					
12. 14	21. 55	13. 5	·0968					
12. 30	14. 40	13. 50	·0951					
13. 30	18. 30	14. 10	·0970					
15. 4	29. 5	14. 26	·0963					
16. 8	19. 55	18. 10	·0996					
17. 13:	29. 0	23. 35	·0962					
18. 12	25. 5							
19. 0	29. 55							
20. 10	30. 20							
20. 15	28. 40							
22. 0	35. 0							
23. 58	34. 0							
Dec. 1		Dec. 1		Dec. 1				
1. 10	22. 39. 35	3. 40	·0988	0. 0	(†)	1	50 ·0	53 ·0
3. 50	30. 0	3. 58	·0973	6. 0	·01525	3	52 ·0	55 ·0
	(†)	4. 30	·0986	9. 25	·01348	9	50 ·0	52 ·0
7. 32	22. 50	4. 53	·0972	12. 45	·01465	22	49 ·0	51 ·0
8. 0	32. 10	5. 7	·0988		(†)			
15. 30	30. 0	5. 20	·0978	17. 50	·01660			
	(†)	5. 50	·0995	18. 0	·01655			
19. 30	30. 0	6. 31	·0973	23. 0	·01595			
23. 0	32. 45	6. 45	·0995					
		20. 42:	·1001					
		23. 15:	·0997					
Dec. 2		Dec. 2		Dec. 2				
0. 30	22. 32. 0	0. 0	·0999	0. 0	·01405	10	50 ·0	55 ·0
7. 0	27. 0	10. 16	·1007	4. 25	·01496	21	50 ·5	53 ·0

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Dec. 2		Dec. 2		Dec. 2				
h m	° ′ ″	h m		h m			°	°
7. 40	22. 31. 5	23. 0	·1000	11. 7	·01250			
9. 50	28. 55			23. 0	·01345			
10. 8	25. 0							
11. 0	29. 30							
11. 47	26. 30							
14. 8	32. 30							
15. 25	28. 15							
23. 26	31. 45							
Dec. 3		Dec. 3		Dec. 3				
1. 0	22. 32. 30	1. 0	·1000	1. 0	·01450	1	50 ·0	54 ·0
7. 4	31. 0	8. 2:	·1019	12. 5	·01615	3	51 ·0	53 ·0
8. 0	24. 0	12. 30	·1019	23. 55	·01497	9	49 ·5	53 ·0
8. 46	28. 30	23. 55	·1008			21	44 ·0	50 ·0
23. 52	33. 30							
Dec. 4		Dec. 4		Dec. 4				
1. 27	22. 34. 30	1. 5	·1009	1. 30	·01515	1	44 ·5	48 ·0
11. 53	28. 0	11. 55	·1019	3. 0	·01543	3	45 ·5	51 ·0
12. 15	31. 0	12. 15	·1037	10. 0:	·01185	9	48 ·0	52 ·0
13. 44	22. 15	13. 10	·1015	15. 45	·01470	21	39 ·0	46 ·0
16. 5	29. 0	23. 45	·1026	23. 45	·01400			
23. 55	32. 15							
Dec. 5		Dec. 5		Dec. 5				
1. 15	22. 33. 0	1. 30	·1025	1. 5	·01400	1	42 ·0	46 ·0
8. 20	26. 15	16. 36	·1015	6. 25	·00968	3	43 ·0	47 ·0
9. 15	28. 45	23. 55	·1012	12. 30	·01050	9	50 ·5	54 ·0
12. 8	27. 15			17. 45	·01025	21	48 ·0	53 ·0
23. 52	31. 15			23. 55	·01158			
Dec. 6		Dec. 6		Dec. 6				
1. 8	22. 32. 10	1. 30	·1013	1. 5	·01195	1	50 ·0	54 ·5
12. 0	22. 0	14. 42	·1021	2. 50	·01170	3	53 ·0	56 ·0
	***	23. 45	·1015	5. 40	·01240	9	55 ·0	57 ·5
13. 52	26. 45			9. 30	·01172	21	48 ·0	53 ·0
	***			22. 9	·01680			
14. 48	23. 45			23. 55	·01675			
	***							
16. 0	28. 15							
23. 55	28. 30							
Dec. 7		Dec. 7		Dec. 7				
1. 4	22. 31. 0	1. 10	·1010	1. 0	·01623	1	51 ·5	54 ·5
11. 41	21. 0	5. 36	·1016	10. 45:	·01170	3	52 ·0	56 ·0
13. 33	24. 15	13. 5	·0996	23. 45	·01402	9	52 ·0	56 ·0
15. 42	20. 15	23. 55	·1009			21	48 ·0	54 ·0
16. 52	25. 30							
17. 20	23. 30							
23. 55	32. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Dec. 8		Dec. 8		Dec. 8				
h m	° ′ ″	h m		h m			°	°
1. 30	22. 32. 30	1. 0	·1009	1. 0	·01432	1	50 ·0	54 ·0
9. 7	27. 15	19. 45:	·1022	4. 52	·01148	3	53 ·0	56 ·0
23. 34	31. 30	23. 55	·1018	6. 40	·01162	9	53 ·5	58 ·0
				6. 45	·01247	22	46 ·0	51 ·0
				8. 0	·01195			
				8. 30	·01265			
				17. 11	·01625			
				23. 55	·01535			
Dec. 9		Dec. 9		Dec. 9				
0. 30	22. 32. 45	1. 0	·1016	0. 0	·01535	10	48 ·0	53 ·5
10. 52	27. 30	21. 30	·1028	2. 45	·01570	21	44 ·0	49 ·0
23. 47	33. 0	23. 50	·1020	9. 50:	·01140			
				20. 8	·01525			
				23. 0	·01505			
Dec.10		Dec.10		Dec.10				
1. 22	22. 35. 0	2. 0	·1016	1. 30	·01530	1	44 ·0	50 ·0
10. 50	28. 15	3. 58	·1002	11. 12	·01117	3	48 ·0	51 ·0
11. 20	23. 30	6. 30	·1019	23. 55	·01305	9	48 ·0	52 ·0
14. 20	29. 45	8. 40	·1010			21	45 ·5	50 ·0
15. 18	27. 30	11. 0	·1016					
23. 55	32. 15	11. 33	·1006					
		20. 23	·1027					
		23. 24	·1016					
Dec.11		Dec.11		Dec.11				
1. 30	22. 34. 45	1. 0	·1025	1. 5	·01340	1	46 ·0	50 ·0
4. 9	30. 30	4. 27	·1027	10. 0:	·00985	3	48 ·0	52 ·4
7. 27	37. 15	7. 17	·0995	21. 25	·01475	9	49 ·5	53 ·0
8. 7	22. 0	8. 13	·1015	23. 55	·01450	21	43 ·0	48 ·0
9. 10	29. 15	8. 45	·1002					
15. 3	28. 15	10. 24	·1017					
23. 55	33. 30	20. 22:	·1033					
		23. 55	·1026					
Dec.12		Dec.12		Dec.12				
0. 55	22. 34. 0	1. 0	·1024	1. 0	·01460	1	43 ·0	47 ·0
3. 56	36. 0	3. 33	·1020	4. 50	·01515	3	43 ·0	48 ·0
4. 47	25. 15	4. 18	·0998	10. 30	·01265	9	45 ·0	48 ·5
5. 7	38. 15	5. 0	·1029	15. 47	·01465	21	39 ·0	45 ·0
6. 0	34. 30	6. 52	·0998	23. 45	·01400			
6. 50	40. 0	9. 10	·1014					
9. 40	11. 15	9. 58	·1055					
10. 22	28. 0	10. 33	·0994					
10. 40	18. 30	10. 50	·1009					
14. 33	30 45	23. 40:	·1028					
15. 10	28. 45							
23. 55	29. 30							
Dec.13		Dec.13		Dec.13				
1. 0	22. 31. 0	1. 24	·1029	1. 0	·01422	1	41 ·0	46 ·0

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Hour.	Thermometers. H. F.	Thermometers. V. F.
Dec.13		Dec.13		Dec.13				
h m	° ′ ″	h m		h m			°	°
10. 34	22. 25. 0	4. 33	·1011	12. 0:	·00905	3	43·0	47·0
13. 10	28. 15	7. 7	·1024	19. 0:	·00962	9	45·0	49·0
14. 23	23. 45	20. 37:	·1028	23. 25	·00882	21	43·0	48·0
15. 30	28. 0	23. 42	·1023					
16. 14	26. 30							
23. 23	30. 45							
Dec.14		Dec.14		Dec.14				
1. 30	22. 32. 0	1. 0	·1024	1. 0	·00940	1	47·5	52·0
14. 15	25. 0	6. 37:	·1019	5. 45	·01140	3	50·0	54·0
23. 38	29. 0	23. 22	·1002	23. 55	·01150	9	53·0	58·0
						21	53·5	59·0
Dec.15		Dec.15		Dec.15				
1. 17	22. 33. 0	2. 0	·1004	1. 0	·01170	1	57·0	61·0
13. 10	25. 0	10. 28	·0997	6. 0:	·01252	3	58·0	61·0
23. 37	29. 30	20. 42:	·1016	10. 10	·01240	9	58·0	62·5
		23. 30	·1012	10. 20	·01418	23	53·0	58·0
				17. 58	·01720			
				23. 55	(†)			
Dec.16		Dec.16		Dec.16				
1. 10	22. 31. 30	1. 0	·1012	3. 40	·01725	9	55·0	59·5
15. 15	27. 15	17. 50:	·1019	9. 30	·01555	21	53·0	59·0
23. 45	29. 30	23. 50	·1011	23. 0	·01650			
Dec.17		Dec.17		Dec.17				
1. 42	22. 34. 0	1. 30	·1014	1. 30	·01688	1	55·0	59·8
14. 36	27. 30	15. 6	·1028	5. 50	·01460	3	49·0	55·0
15. 0	31. 45	23. 53	·1011	10. 22	·01750	9	55·0	59·0
15. 45	24. 45			23. 55	·01675	21	49·5	55·0
16. 30	28. 15							
23. 40	29. 45							
Dec.18		Dec.18		Dec.18				
2. 10	22. 33. 45	1. 30	·1017	2. 0	·00660	1	50·0	55·0
4. 49	28. 30	3. 2	·1004	13. 20:	·00510	3	55·0	58·5
7. 57	31. 30	5. 40	·1015	20. 35	·00790	9	56·5	58·5
9. 42	25. 15	8. 8	·0996	23. 55	·00780	21	51·0	55·0
12. 56	28. 30	13. 2	·1019					
16. 20	24. 0	17. 10:	·1023					
17. 5	28. 0	23. 0	·1010					
23. 33	29. 15							
Dec.19		Dec.19		Dec.19				
1. 17	22. 31. 0	1. 8	·1016	1. 0	·00772	1	53·0	57·0
9. 26	26. 30	20. 0:	·1031	3. 40	·00747	3	54·0	57·8
22. 35	29. 45	23. 55	·1023	8. 30:	·00470	9	53·0	56·0
				13. 10	·00722	21	44·0	47·5
				23. 40	·00620			

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Dec.20		Dec.20		Dec.20				
h m	° ′ ″	h m		h m			°	°
0. 32	22. 30. 30	2. 23	·1017	1. 0	·00645	1	46·0	50·0
2. 30	34. 30	5. 8	·0995	4. 8	·00430	3	55·0	58·8
3. 42	31. 30	17. 48	·1034	5. 42:	·00492	9	51·0	54·0
5. 0	39. 0	23. 0	·1016	9. 40:	·00378	21	42·0	47·0
7. 40	26. 30			16. 25	·00672			
14. 40	28. 30			23. 0	·00595			
15. 8	32. 0							
15. 54	20. 0							
16. 45	26. 0							
17. 3	25. 0							
20. 53	34. 30							
22. 50	30. 0							
23. 57	34. 30							
Dec.21		Dec.21		Dec.21				
0. 23	22. 37. 30	0. 37	·1006	0. 0	·00605	1	44·0	46·4
9. 28	27. 45	6. 27	·1025	2. 45	·00640	3	46·0	48·8
10. 55	19. 45	10. 30	·1003	10. 0	·00247	9	47·0	49·0
11. 38	21. 45	13. 20	·1023	17. 50	·00582	21	39·5	44·0
12. 7	17. 45	13. 48	·1006	23. 0	·00552			
13. 55	29. 45	14. 18	·1043					
15. 15	15. 0	16. 0	·1018					
16. 14	27. 0	17. 14	·1030					
17. 27	27. 30	17. 52	·1018					
17. 52	36. 30	20. 0	·1031					
18. 18	30. 15	22. 18	·1004					
19. 8	36. 0	23. 0	·1008					
22. 37	32. 15							
23. 0	35. 0							
Dec.22		Dec.22		Dec.22				
0. 0	22. 32. 15	0. 0	·1011	0. 0	·00570	1	42·0	44·0
2. 13	36. 0	18. 25	·1030	10. 0	·00118	3	45·0	46·8
3. 12	31. 15	23. 25	·1017	23. 30	·00520	9	44·0	47·0
11. 0	28. 0					22	40·0	43·0
	(†)							
22. 40	30. 24*							
23. 50	(†)							
Dec.23		Dec.23		Dec.23				
0. 33	22. 31. 0	1. 0	·1020	1. 0	·00547	11	38·0	42·5
1. 50	34. 30	19. 35	·1043	4. 15	·00578	21	36·0	41·7
2. 47	30. 45	23. 15	·1019	10. 0	·00464			
11. 23	27. 45			23. 0	·00500			
11. 54	30. 15							
12. 33	23. 30							
14. 3	28. 30							
20. 0	27. 15							
	***							
23. 55	31. 0							

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
Dec.24		Dec.24		Dec.24				
h m	° ′ ″	h m		h m			°	°
0.54	22.33.45	1. 0	·1021	1. 0	·00505	1	43·0	43·8
3. 8	30.30	4. 5	·1011	4. 0	·00223	3	48·0	50·0
3.45	32. 0	9.29	·1025	7.30:	·00355	9	50·0	53·0
8. 4	22.15		(†)	9.29	·00320	22	42·0	45·0
9.29	27. 0	23.40	·1023	23.35	(†)			
	(†)							
22.40	29.25*							
	(†)							
Dec.25		Dec.25		Dec.25				
1.22	22.33. 0	0. 0	·1025	0. 0	·00635	8	44·0	46·0
8. 4	29. 0	15.10:	·1050	5. 0	·00695	21	42·0	44·0
8.30	24.45	22.48	·1035	15.40:	·00620			
9.50	28.15			21.30	·00663			
14.55	29. 0							
15.10	32. 0							
15.36	28.30							
15.58	31.45							
16.30	28.15							
23.33	30. 0							
Dec.26		Dec.26		Dec.26				
1.40	22.31.23*	1.40	·1032*	1.40	·00567*	1	45·0	46·0
3.40	30. 6*	3.40	·1033*	3.40	·00546*	3	50·0	52·0
9.40	24.57*	9.40	·1038*	9.40	·00145*	9	48·5	48·5
21.40	26.15*	21.40	·1021*	21.40	·00520*	21	43·0	45·0
		Dec.27		Dec.27				
		1.40	·1035*	1.40	·00470*	1	47·0	47·7
		3.40	·1002*	3.40	·00262*	3	54·0	54·0
		9.40	·1004*	9.40	·00199*	9	47·5	48·0
		21.40	·1044*	21.40	·00359*	21	36·0	37·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Hour.	Thermometers. H.F.	Thermometers. V.F.
		Dec.28		Dec.28				
h m	° ′ ″	h m		h m			°	°
		1.40	·1058*	1.40	·00088*	1	37·0	37·0
		3.40	·1050*	3.40	·00108*	3	40·0	40·0
		9.40	·1048*	9.40	·00196*	9	37·0	37·0
		21.40	·1050*	21.40	·00144*	21	28·0	27·7
		Dec.29		Dec.29				
		1.40	·1053*	2.30	·00493	1	36·0	37·0
		3.40	·1039*	3.42	·00210	3	40·0	41·0
		9.40	·1015*	5.12	·00255	9	43·0	46·8
		23.40	·1023*	11.55	·00130	23	45·0	48·5
				20. 0	·00152			
				20.40	·00228			
				23.45	·00210			
		Dec.30		Dec.30				
		11.40	·1003*	0.30	·00208	11	44·0	50·0
		21.40	·1030*	1.33	·00227	21	39·0	42·0
				1.43	·00280			
				10. 5	·00488			
				10.32	·00470			
				11.43	·00532			
				22.45	·01370			
				23.10	·01360			
		Dec.31		Dec.31				
				0. 0	·01375	1		45·0
				1.10	·01400	3		49·3
				7.25	·00678	9	48·0	50·0
		9.40	·1037	10. 0	·00598	21		45·0
				16. 0	·00816			
				23.45	·01330			

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

The time of reading the thermometers is the hour specified in Greenwich time, or the hour increased by 40^m in Göttingen time.

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

The Zero for the Horizontal Force is constant throughout the year; but no reliance whatever can be placed on the constancy of the Zero of the Vertical Force beyond a single day; and in many instances it is known to be different on different days.

In passing through the Press the sheet ending with page (xvi), a slight error has been committed, by inserting in several instances, as readings of the V. F. Thermometer, degrees inferred from the readings of the H. F. Thermometer. The following readings of the V. F. Thermometer ought to be struck out:—

First and second readings: Feb. 4, 18; March 7; April 1.

First, second, and third: Feb. 21, March 26.

First, second, and fourth: Jan. 27, April 10.

Second: Jan. 31.

Second and third: April 6.

Second and fourth: Feb. 8, April 7.

Second, third, and fourth: Feb. 3, March 6.

Third: Feb. 1, 2, 19; March 2, 15; April 2.

Third and fourth: Feb. 20; March 9, 14, 21, 24, 31.

Fourth: Feb. 7, 17; March 12, 16, 18, 20, 22, 27, 28, 30; April 3.

All: Feb. 9; March 23, 25; April 8, 9, 11, 12, 13.

It is proper, however, to observe that the almost absolute equality of temperature in the boxes of the two instruments has been established by the printed comparisons, and that in many other instances when the reading of the V. F. Thermometer has not been recorded it has been remarked as being the same as that of the H. F. Thermometer.

The following corrections are required to the printed Results from the Photographic Sheets:—

Declination.

	d	h	m				
Jan.	4.	4.	0	*for*	22°. 41′. 45″	*read*	22°. 38′. 10″
	11			,,	$11^h.\ 7^m$	,,	$11^h.37^m$
	16.	22.	5	,,	22°. 38′. 0″	,,	22°. 32′. 30″
	25.	9.	10	,,	22°. 26′. 0″	,,	22°. 22′. 0″

Vertical Force.

	d	h	m				
Jan.	6.	12.	0	*for*	·01185	*read*	·01085
	7.	0.	30	,,	·00832	,,	·00882
	9.	11.	30	,,	·01190	,,	·01140
	12.	6.	10	,,	·00822	,,	·00930
	17.	9.	40	,,	·01110	,,	·01210
	22.	6.	35	,,	·00900	,,	·01150

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

OBSERVATIONS

OF THE

MAGNETIC DIP.

1849.

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

The needle A 2 has been used throughout the Year 1849.

Magnetic Dip, observed at the Royal Observatory, Greenwich, in the Year 1849.

Day and Approximate Hour, 1849.		Magnetic Dip.	Day and Approximate Hour, 1849.		Magnetic Dip.	Day and Approximate Hour, 1849.		Magnetic Dip.
	d h	° ′		d h	° ′		d h	° ′
January	4. 3	68. 59·50	May	20. 21	68. 52·50	September	9. 21	68. 58·75
	8. 21	68. 56·50		24. 3	68. 54·00		13. 3	68. 53·00
	14. 21	68. 56·00		27. 21	68. 51·75		16. 21	68. 40·00
	18. 3	68. 48·25					20. 3	68. 45·00
	21. 21	68. 58·00					20. 3	68. 45·25
	25. 3	68. 52·75	June	3. 21	68. 57·50		21. 3	68. 52·75
				7. 3	68. 54·50		23. 21	68. 41·00
				10. 21	68. 58·50		27. 3	68. 48·00
February	1. 3	68. 49·75		14. 3	68. 35·25		30. 21	68. 43·00
	4. 21	68. 55·25		17. 21	69. 0·25			
	15. 3	68. 51·25		21. 3	68. 53·50			
	18. 21	68. 51·25		24. 22	68. 59·50	October	4. 3	68. 46·50
	22. 3	68. 51·25		28. 3	68. 59·50		7. 21	68. 41·75
	25. 21	68. 53·00					11. 3	68. 46·00
							14. 21	68. 42·50
			July	1. 21	68. 58·00		18. 23	68. 37·75
March	4. 21	68. 55·00		5. 3	68. 45·25		21. 21	68. 42·50
	8. 3	68. 53·75		8. 21	68. 48·50		25. 3	68. 38·00
	11. 21	68. 54·75		12. 3	68. 50·00		28. 21	68. 43·50
	18. 21	68. 54·00		15. 21	68. 49·50			
	22. 3	68. 54·75		19. 3	68. 41·25			
	25. 21	68. 54·50		22. 21	68. 52·75	November	1. 3	68. 39·50
	29. 3	68. 54·00		29. 21	68. 48·25		4. 21	68. 48·25
							8. 3	68. 41·25
April	1. 21	68. 53·75	August	2. 3	68. 58·25		11. 21	68. 45·75
	5. 3	68. 55·00		5. 21	68. 58·50		21. 21	68. 42·75
	8. 21	68. 54·00		9. 3	68. 56·75		22. 3	68. 52·00
	16. 21	68. 56·00		12. 21	68. 56·75		25. 21	68. 57·00
	22. 21	68. 55·75		16. 3	68. 58·50		29. 3	68. 47·00
	26. 30	68. 53·75		19. 21	69. 0·75			
	29. 21	68. 54·50		23. 3	69. 2·25	December	6. 3	68. 43·75
				26. 21	68. 55·00		13. 3	68. 41·50
				30. 3	68. 52·75		16. 21	68. 53·75
May	3. 3	68. 53·00					20. 3	68. 42·25
	5. 3	68. 56·25					23. 21	68. 45·25
	10. 3	68. 53·50	September	2. 21	68. 56·00		28. 3	68. 40·75
	13. 21	68. 55·00		6. 3	68. 53·50		30. 21	68. 40·50

September 20^{d}. 3^{h}. In consequence of the smallness of the results for dip on September 16, and on this day, the observation was repeated on September 20.

Mean Monthly Magnetic Dip, at the Royal Observatory, Greenwich, in the Year 1849.

1849, Month.	Mean Monthly Dip at 21^h	Number of Observations.	Mean Monthly Dip at 3^h	Number of Observations.
	° ′		° ′	
January	68. 56 ·8	3	68. 53 ·5	3
February	68. 53 ·2	3	68. 50 ·8	3
March	68. 54 ·6	4	68. 54 ·2	3
April	68. 54 ·8	5	68. 54 ·4	2
May	68. 53 ·1	3	68. 54 ·2	4
June	68. 58 ·9	4	68. 55 ·8	3
July	68. 51 ·4	5	68. 45 ·5	3
August	68. 57 ·8	4	68. 57 ·7	5
September	68. 47 ·8	5	68. 49 ·6	6
October	68. 42 ·6	4	68. 42 ·1	4
November	68. 48 ·4	4	68. 44 ·9	4
December	68. 46 ·5	3	68. 42 ·1	4
Mean	68. 52 ·2		68. 50 ·4	

Mean = 68° 51′ 3

ROYAL OBSERVATORY, GREENWICH.

OBSERVATIONS

OF

DEFLEXION OF A MAGNET

FOR

ABSOLUTE MEASURE

OF

HORIZONTAL FORCE.

1849.

The Apparatus used for observation of the Deflexion of a Magnet is described, and the method of computing the results is explained, in the Greenwich *Magnetical and Meteorological Observations*, 1847, Introduction, page xlv, and in preceding Volumes. The magnet, marked $\frac{D}{XX}$ (the same which was used in preceding years), has been employed to produce the deflexion of another magnet, marked $\frac{H}{23}$ (of nearly the same dimensions): and the vibrations then observed are those of $\frac{D}{XX}$.

The following is the explanation of the notation used:—

m = the magnetic moment of the deflecting magnet $\frac{D}{XX}$.

X = the absolute measure of horizontal magnetic force.

K = the moment of inertia of $\frac{D}{XX}$ with its stirrup and pulley as suspended for vibration = 3·92866: the unit of length being the English foot, and the unit of weight being the English grain.

T = the time of vibration in seconds of mean solar time.

Then when the natural sine of the observed deflexion (the Deflecting Magnet being in the Lateral Position) is expressed by the formula

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

we have for the formula of computation

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

$$m X = \frac{\pi^2 K}{T^2}$$

from which m and X are found.

The natural sine of the observed deflexion when the Deflecting Magnet is in the Axial Position is treated in the same manner as the former, for expressing it by the formula

$$\frac{a_1}{(\text{distance})^3} + \frac{b_1}{(\text{distance})^5}$$

but no further use is made of these deflexions.

For the determination of the Absolute Measure of Horizontal Force on those days on which Vibrations, unaccompanied by Deflexions, were observed: it is assumed that the quantity m (which is peculiar to the magnet) changes at a uniform rate from one observation of deflexion to the next; and the comparison of its interpolated value with the value of $m X$ given by the vibration determines the value of X.

Observed Deflexions of a Magnet for Absolute Measure of Horizontal Force.

Month and Day, 1849.	Position of Deflecting Magnet with regard to Suspended Magnet.	Distance of Centers of Magnets.	Temperature.	Observed Deflexion.	Mean of the Times of Vibrations of Deflecting Magnet.	Number of Vibrations.	Temperature.
		ft. in.	°	° ′ ″	s		°
January 9	Lateral	1. 0		12. 17. 52 ·79	5 ·075	100	46 ·0
	Axial.....		44 ·3	6. 33. 14 ·71			
	Lateral	1. 6		3. 36. 50 ·59			
	Axial.....			1. 50. 23 ·31			
					5 ·078	100	45 ·5
January 31	Lateral	1. 0		12. 17. 6 ·54	5 ·062	102	42 ·5
	Axial.....		44 ·3	6. 35. 41 ·33			
	Lateral	1. 6		3. 37. 49 ·85			
	Axial.....			1. 50. 19 ·94			
					5 ·084	126	46 ·3
February 27	Lateral	1. 0		12. 19. 9 ·92	5 ·077	100	42 ·0
	Axial.....		45 ·2	6. 34. 1 ·90			
	Lateral	1. 6		3. 34. 51 ·74			
	Axial.....			1. 48. 56 ·23			
					5 ·081	100	45 ·7
May 19	Lateral	1. 0		12. 9. 53 ·06	5 ·084	140	55 ·5
	Axial.....		60 ·3	6. 32. 26 ·95			
	Lateral	1. 6		3. 34. 5 ·77			
	Axial.....			1. 51. 18 ·70			
					5 ·084	100	62 ·2
October 10	Lateral	1. 0		12. 11. 24 ·67	5 ·093	100	49 ·0
	Axial.....		55 ·3	6. 31. 54 ·85			
	Lateral	1. 6		3. 35. 53 ·78			
	Axial.....			1. 50. 4 ·95			
					5 ·097	100	57 ·0
December 20	Lateral	1. 0		12. 12. 43 ·43	5 ·092	100	40 ·5
	Axial.....		41 ·6	6. 31. 56 ·36			
	Lateral	1. 6		3. 36. 8 ·80			
	Axial.....			1. 48. 59 ·23			
					5 ·045	40	42 ·5

Dec. 20. In the determination of the adopted time of vibration of the Deflecting Magnet, for the calculation of the Absolute Measure of Horizontal Force, double weight was given to the first determination.

Computation of the Values of Absolute Measure of Horizontal Force from Observations of Deflexion of a Magnet.

Month and Day, 1849.	Apparent Value of a.	Apparent Value of b.	Mean Value of b.	Apparent Value of a_1.	Apparent Value of b_1.	Adopted Value of a, assuming the Mean Value of b as applicable to all.	Log. $\frac{1}{2}a$ = Log. $\frac{m}{X}$	Adopted Time of Vibration of Deflecting Magnet.	Log. mX.	Value of X.	Value of m.
								s			
January 9	+0·21257	+0·00043	+0·00040	+0·10376	+0·01038	+0·2126	9·02653	5·077	0·17733	3·7619	0·3999
31	+0·21445	−0·00167		+0·10311	+0·01174	+0·2130	9·02658	5·073	0·17802	3·7646	0·4002
February 26	+0·20876	+0·00460		+0·10096	+0·01341	+0·2124	9·02617	5·079	0·17698	3·7619	0·3996
May 19	+0·20954	+0·00118		+0·10552	+0·00839	+0·2102	9·02164	5·084	0·17612	3·7778	0·3971
October 10	+0·21234	−0·00118		+0·10351	+0·01025	+0·2110	9·02317	5·095	0·17425	3·7631	0·3969
December 20	+0·21247	−0·00094		+0·10157	+0·01219	+0·2113	9·02387	5·076	0·17750	3·7742	0·3987

Values of Absolute Measure of Horizontal Force, from Observations of Vibration of the Deflecting Magnet $\frac{H}{23}$, unaccompanied by Deflexions.

Month and Day, 1849.	Adopted time of Vibration.	Temperature.	Log. mX.	Value of m interpolated from the Deflexion Observations.	Inferred Value of X.
	s	°			
January 18	5·092	51·0	0·17578	0·4000	3·7386
February 12	5·109	49·0	0·17188	0·4001	3·7129
14	5·067	48·5	0·17904	0·4001	3·7746
May 12	5·079	53·7	0·17698	0·3974	3·7823
June 6	5·102	66·0	0·17306	0·3971	3·7511
August 6	5·095	76·0	0·17426	0·3970	3·7625
September 8	5·079	65·0	0·17698	0·3969	3·7870
November 23	5·092	42·0	0·17476	0·3981	3·7564

The number of observed vibrations in the different determinations varied from 100 to 140.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1849.

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

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

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

The thermometers used for determining the "highest and lowest readings of the dry thermometers" are self-registering thermometers, as described in the Introduction, 1847, page lxvii; and their index-errors have been found for every month, in the manner there explained. The readings given in these tables are corrected for the 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.

The mean daily reading of the dry thermometer is inferred from observations taken at the same hours as the observations of the barometer; the mean of these is corrected by a quantity given in the *Phil. Trans.*, 1848, part I.

The dew-point has been exclusively inferred 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 comparison of all the simultaneous readings of the dry-bulb, wet-bulb, and dew-point thermometers, to the end of the year 1844).

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

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

Tables nearly equivalent to this have been used in the reduction of the observations with the wet-bulb thermometer in the years following 1844.

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 highest temperature in the sunshine, the lowest 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. That for the highest temperature in the sunshine was out of order from June 5 to 16, August 25 to 27, October 5 to 15, October 21 to November 1, and December 2 to 16; and those for the temperature of the Thames water from July 18 to August 6.

The mean daily value of the difference between dew-point temperature and air temperature is the difference between the two numbers in the sixth and seventh columns. The Greatest and Least are the greatest and least among the

differences corresponding to the times of observation in the civil day, and they probably differ little from the absolute maxima and minima.

The difference between the mean temperature for the day and the mean for the same day of the year on an average of seven years, is found by comparison with a table of results deduced by Mr. Glaisher from seven years' observations, made in the Magnetic and Meteorological Department of the Royal Observatory in nearly the same locality as that in which the present observations are made, which are printed in the *Greenwich Magnetical and Meteorological Observations*. For all ordinary week days, the mean adopted in these results was the mean of the twelve readings made at equidistant intervals of two hours. For Sundays and exceptional days the maximum and minimum readings were taken, and their mean was corrected for a difference exhibited in the Introductions to the various volumes of the *Magnetical and Meteorological Observations*.

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

Whewell's Anemometer is described in the Introduction, 1847, page lxxii. The amount of movement of air here exhibited is to be understood as from 22^h to 22^h (10^h A.M. to 10^h A.M.), the numbers being placed opposite to the day preceding the civil day on which the instrument is read. This instrument was broken in a gale of wind on February 28, and was not replaced till April 21.

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

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

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

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

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

The Electric Apparatus was under repair from March 24 to April 12.

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

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

Observations of special character are reserved for the pages following the tabular arrangement.

MONTH and DAY, 1849.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometer, read at 9h A. M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometer, read at 9h A. M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same day on an Average of 7 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	Osler's. General Direction. P. M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Jan. 1	In Equator	30·073	36·4	27·8	30·7	24·8	40·8	17·4	40·2	37·5	5·9	8·3	4·3	— 7·6	NE	ENE	2·8	0·0	0·4	135	0·00
2	First Qr.	29·939	28·0	20·4	24·6	19·9	41·4	17·2	39·2	34·5	4·7	7·9	3·2	—13·0	ENE	ENE	2·5	0·0	0·1	205	0·00
3	..	29·605	30·3	19·9	25·4	20·5	41·5	20·5	37·0	32·5	4·9	8·7	1·5	—11·5	NE	Calm; NE	0·0	0·0	0·0	60	0·00
4	..	29·679	35·3	29·5	32·7	30·0	37·0	31·3	36·2	32·0	2·7	5·5	1·8	— 3·7	NE	NE	0·8	0·0	0·0	70	0·03
5	..	29·700	34·2	31·6	32·7	32·0	35·5	30·0	35·5	32·5	0·7	1·3	1·0	— 3·5	NE	NE	0·0	0·0	0·0	25	0·21
6	..	29·915	37·8	25·6	31·4	28·2	48·9	21·5	34·5	32·2	3·2	7·0	1·9	— 4·4	NNE	NE	0·0	0·0	0·0	..	0·00
7	Perigee Greatest Declination N.	29·927	36·2	22·7	31·0	29·1	35·5	32·0	35·1	33·8	1·9	4·9	2·2	— 4·6	SW	SW; S	0·0	0·0	0·0	105	0·10
8	Full	29·486	39·3	35·2	37·6	36·1	40·0	32·0	36·3	34·1	1·5	2·8	1·0	+ 2·1	SSE	SE; SW	1·3	0·0	0·1	125	0·13
9	..	29·423	46·2	37·1	41·2	37·0	48·8	34·4	37·8	34·6	4·2	6·1	1·9	+ 5·7	SW	W; SW	2·0	0·0	0·1	205	0·07
10	..	28·920	49·5	36·7	45·0	36·9	49·5	40·0	38·8	36·6	8·1	11·3	8·1	+ 9·4	S	W	9·0	0·0	3·3	315	0·05
11	..	29·346	47·0	32·4	37·2	32·1	43·6	25·0	38·8	37·4	5·1	7·0	0·8	+ 1·5	W by S; NNW	NNW	10·5	0·0	3·6	210	0·05
12	..	29·993	39·8	28·0	34·0	32·0	41·8	28·0	38·5	37·4	2·0	5·5	1·0	— 1·8	N by W	S	2·4	0·0	0·4	215	0·00
13	..	29·601	53·9	38·2	49·3	48·4	53·3	48·5	40·7	37·8	0·9	3·8	2·8	+13·3	SW	SSW	4·3	0·0	1·4	405	0·08
14	In Equator	29·433	56·4	40·3	49·3	44·2	57·0	31·0	41·8	39·8	5·1	7·9	4·2	+13·1	SSW	WSW	15·0	0·4	3·4	290	0·06
15	..	29·899	43·0	34·5	39·1	35·2	44·8	30·0	42·5	41·1	3·9	5·8	3·0	+ 2·7	SSW	SW	0·0	0·0	0·0	120	0·00
16	Last Qr.	29·730	50·3	30·5	42·9	41·8	50·3	35·0	43·1	41·6	1·1	2·3	1·3	+ 6·3	SW; S	S	1·8	0·0	0·0	165	0·01
17	..	29·665	54·5	44·4	50·3	47·8	55·0	32·0	44·3	42·1	2·5	4·8	2·2	+13·3	S	SW; N by W	4·0	0·0	0·7	165	0·18
18	Apogee	29·869	53·2	36·5	46·9	43·0	58·3	43·0	44·5	43·1	3·9	7·1	2·5	+ 9·6	S	SW	5·0	0·0	1·8	325	0·00
19	..	29·836	53·2	47·0	49·9	46·5	60·2	40·5	45·3	43·8	3·4	5·0	2·4	+12·4	SW	SSW; S	2·3	0·0	0·0	165	0·00
20	..	30·051	51·5	45·0	47·8	44·9	59·8	41·0	45·9	44·6	2·9	4·6	2·2	+10·3	S	S by W	0·0	0·0	0·0	110	0·00
21	Greatest Declination S.	30·029	51·1	44·1	47·8	44·4	51·5	39·5	46·5	45·1	3·4	4·4	3·1	+10·2	S	SSW	6·0	0·0	1·9	220	0·00
22	..	29·994	50·9	37·2	44·2	35·7	55·8	37·0	46·5	45·1	8·5	11·7	6·2	+ 6·7	SW	SW	5·0	0·3	2·3	335	0·10
23	..	30·261	53·7	39·5	47·3	41·9	60·8	41·0	45·9	44·8	5·4	8·6	4·6	+ 9·8	SW	WSW	4·0	0·3	1·1	360	0·00
24	New	30·199	52·2	43·8	48·4	40·0	52·0	46·0	45·9	45·1	8·4	10·7	6·7	+10·9	WSW	WSW	10·0	0·0	3·5	495	0·00
25	..	29·921	53·1	48·8	49·6	42·2	57·5	43·0	45·8	44·8	7·4	8·2	6·4	+12·3	W	SSW	4·0	0·0	3·1	425	0·00
26	..	29·749	50·7	37·3	44·1	35·6	60·0	26·0	45·8	44·6	8·5	12·5	3·9	+ 6·9	SSW	WSW; SW	3·8	0·0	1·1	230	0·06
27	..	29·699	44·6	31·8	39·5	35·4	51·7	32·0	45·1	43·8	4·1	7·1	1·9	+ 2·6	SW	SSE	2·4	0·0	0·2	150	0·01
28	..	29·274	45·1	34·6	39·2	32·4	53·7	30·5	44·3	42·6	6·8	9·0	4·2	+ 2·5	S; SW	SSW	2·4	0·0	0·2	225	0·40
29	In Equator	29·652	42·4	31·0	36·9	34·1	46·5	25·0	43·5	41·6	2·8	4·3	3·3	+ 0·6	NNW	NNW	4·8	0·0	1·0	125	0·05
30	..	29·946	46·6	30·7	38·2	36·2	48·0	28·5	42·3	40·6	2·0	4·5	1·6	+ 2·3	N by W; E by S	S by W	2·0	0·0	0·2	155	0·00
31	First Qr.	30·085	45·2	30·1	39·4	32·0	53·4	18·5	42·1	40·4	7·4	10·8	4·5	+ 4·9	W	WSW	1·8	0·0	0·1	90	0·02
Feb. 1	..	30·195	44·5	30·3	37·3	35·0	50·2	32·7	41·3	40·1	2·3	4·3	1·9	+ 2·0	SW	WSW	0·0	0·0	0·0	55	0·01
2	..	30·221	49·4	37·7	45·4	43·7	52·0	41·5	41·5	40·4	1·7	2·4	1·3	+10·7	SSE	S	0·0	0·0	0·0	55	0·02
3	Perigee	30·293	49·0	43·1	45·4	43·8	50·4	41·5	42·7	40·8	1·6	3·5	0·9	+11·0	S by E; Calm	Calm	0·0	0·0	0·0	115	0·02
4	Greatest Declination N.	30·354	53·1	43·7	48·2	44·6	50·8	43·0	43·3	41·6	3·6	5·2	3·6	+14·2	S by W; Calm	WSW; Calm	1·0	0·0	0·1	110	0·00
5	..	30·365	50·3	43·4	46·0	43·2	54·0	40·5	44·7	42·1	2·8	4·2	3·0	+12·4	Calm; W	WSW	0·0	0·0	0·0	60	0·00
6	..	30·303	48·2	43·3	44·1	40·6	46·8	43·0	45·1	42·6	3·5	5·1	2·5	+10·8	WSW; Calm	Calm	0·0	0·0	0·0	30	0·00
7	Full	30·281	45·2	40·3	42·0	38·2	46·0	40·0	45·3	42·8	3·8	6·9	3·8	+ 9·5	S by W; W by N	WSW; SSW	1·3	0·0	0·0	110	0·00
8	..	30·053	53·2	39·0	45·2	39·7	62·7	34·5	45·3	43·1	5·5	9·0	2·6	+12·6	SW; SSW	SSW; WSW	2·6	0·0	0·5	200	0·06
9	..	30·344	47·6	33·4	42·0	36·7	53·7	29·5	44·9	43·2	5·3	8·1	3·3	+ 9·0	SW; SSW	SW	2·0	0·0	0·3	285	0·00
10	In Equator	30·303	52·9	42·7	47·8	44·1	57·0	35·5	45·1	43·6	3·7	6·2	1·6	+14·5	SW; WSW	WSW; W by S	4·4	0·0	0·5	205	0·00
11	..	30·695	49·7	33·6	40·9	35·9	64·0	25·0	44·9	43·6	5·0	9·2	2·6	+ 6·9	S	S	0·0	0·0	0·0	10	0·00
12	..	30·560	44·7	27·0	35·6	32·0	49·9	22·0	44·3	42·8	3·6	6·2	1·8	+ 0·7	S by E	W	0·0	0·0	0·0	20	0·00
13	..	30·436	44·2	23·5	35·4	34·4	56·2	19·8	43·5	42·6	1·0	3·6	1·2	— 0·5	W by S	WSW	3·0	0·0	0·4	5	0·00
14	..	30·539	52·2	31·9	42·6	35·6	62·5	24·5	43·3	42·1	7·0	12·0	0·5	+ 5·7	WSW	W by S	4·0	0·0	0·5	190	0·00
15	Last Quarter and Apogee	30·404	57·8	42·3	48·8	42·6	71·7	32·5	43·3	42·2	6·2	9·7	2·8	+11·0	W	SW	0·0	0·0	0·0	85	0·00
16	..	30·360	44·8	35·8	39·7	36·1	52·0	31·5	43·5	42·1	3·6	6·4	2·8	+ 1·3	SW	SW	0·0	0·0	0·0	40	0·00
17	..	30·453	53·6	29·8	42·2	37·2	65·8	26·0	43·3	41·8	5·0	10·2	1·9	+ 3·2	SW	SW	0·0	0·0	0·0	205	0·00
18	Greatest Declination S.	30·333	50·2	35·6	43·0	39·6	58·3	31·0	43·1	41·8	3·4	4·8	0·8	+ 3·7	SW	SW	0·0	0·0	0·0	205	0·00
19	..	29·966	52·1	36·4	45·8	40·3	62·0	42·0	43·7	42·6	5·5	9·2	3·1	+ 6·3	SW	SSW	5·3	0·0	2·8	325	0·00
20	..	29·602	51·8	42·1	45·9	44·1	56·1	35·5	43·7	42·8	1·8	5·1	0·6	+ 6·3	SSW	SW; NNW	2·8	0·0	0·6	175	0·40
21	..	29·830	47·1	35·7	43·0	36·8	54·0	30·0	45·3	43·1	6·2	10·6	1·5	+ 3·4	WNW; WSW	SW; SSW	1·5	0·0	0·1	210	0·02
22	..	29·607	58·0	44·7	50·7	42·9	66·0	41·0	45·9	43·8	7·8	10·1	7·2	+11·0	WSW	W by N; WSW	10·0	0·0	3·7	325	0·00
23	New	29·843	51·6	36·6	47·6	38·2	69·0	31·0	45·7	43·8	8·8	14·7	6·0	+ 7·2	SW	WSW; S	1·0	0·0	0·1	170	0·00
24	..	29·520	47·4	37·7	42·3	40·6	48·7	33·0	45·8	43·8	1·7	3·4	1·7	+ 2·4	S	N; ENE	1·0	0·0	0·1	30	0·25
25	In Equator	29·308	50·0	36·7	43·6	39·5	57·0	34·8	45·3	44·1	4·1	6·8	2·6	+ 3·8	SSE; NNW	SW; SSE	2·0	0·0	0·1	120	0·20
26	..	29·528	47·1	34·4	40·5	32·3	61·0	23·0	45·1	43·6	8·2	13·6	2·6	+ 0·8	NNE	N	2·5	0·0	0·2	65	0·40
27	..	29·924	48·2	26·8	38·5	30·3	63·8	26·0	44·7	43·1	8·2	13·6	3·6	— 1·1	N	SE	0·0	0·0	0·0	150	0·00
28	..	29·329	46·5	31·3	41·4	39·5	49·0	31·8	43·8	42·4	1·9	5·5	0·5	+ 1·9	SW	SW	22·0	0·0	5·0	..	0·78

MONTH and DAY, 1849.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Jan. 1	0	0	10, ci.-s, li.-cl	10, ci.-s, li.-cl : 0
2	0	0	0	0
3	0	0	5, ci.-s, sc	5, ci.-s, sc : 10, ci.-s, sc
4	0	0 : N, w	10, ci.-s, sc	10, fr.-r : 10, r, sl
5	s	s	10, ci.-s, sc, f	10, m.-r : 10, sn
6	: w :	0	10, ci.-s, sc	5, ci.-s, sc : v
7	0	m : 0	10, ci.-s, sc	10, ci.-s, sc : r
8	0	s : 0	10, ci.-s, sc, r	10, ci.-s, sc, r
9	0	s : 0	8, ci.-s, h	0 : 10 : r
10	0	0	10, ci.-s, sc, r	10, ci.-s, sc : 9, ci.-s, sc
11	0	0	10, ci.-s, sc, w	10, ci.-s, sc, w
12	0 : s	s : 0	3, ci.-s, sc	10, ci.-s, sc : li.-sh.-r
13	0	0	10, ci.-s, sc, w, r	10, ci.-s, sc,
14	0	0	10, ci.-s, sc	10 : 0
15	0	0 : 0 : m	8, ci.-s	8 : 8 : 0
16	0	0	10, ci.-s, sc : 5, ci.-s, sc	10, ci.-s, sc, r : r
17	0	0	10, ci.-s, sc, m.-r	10, ci.-s, sc, m.-r : 0
18	0	0	10, ci.-s, sc	10, ci.-s, sc : 7, ci.-s, sc : 10, ci.-s, sc
19	0	0	8, ci.-s, li.-cl, sc	8, ci.-s, li.-cl, sc : 10, ci.-s, li.-cl, sc
20	0	v	8, ci.-s, sc	8, ci.-s, sc
21	0	0	10, ci.-s, sc	10, ci.-s, sc
22	0 : s, PN, sps, g. cur	0	5, ci.-s, sc : 5, fr.-sqs, h.-r	5, ci.-s, sc
23	0	0	5	5
24	0	0 : s	10, ci.-s, sc	10, ci.-s, sc
25	0	0	8, ci.-s, sc	8, ci.-s, sc
26	0	0 : s	10, ci.-s, sc	5, ci.-s, sc : 0
27	s	s : s, N	7, ci.-s, sc, so.-ha	10, ci.-s, sc, r
28	0	0	5, cu.-s, sc, r	5, cu, ci.-s, sc : 0 : 10, cu, ci.-s, sc, r
29	0	0	10	7
30	0	0	10, ci.-s, sc	10, ci.-s, sc, h.-r, sn
31	v	v	0	0 : 3, ci.-s : 3, h
Feb. 1	s	s : N, m	0	10, ci.-s, sc : 10, m.-r
2	0	0	10, ci.-s, sc, m.-r	10, ci.-s, sc, m.-r
3	0	0 : m	10, ci.-s, sc, r	10, ci.-s, sc, r : 10, ci.-s, sc
4	0	0 : m	10, ci.-s, sc, sl.-r	10, ci.-s, sc
5	0	m : 0	8, ci.-s, sc	10, ci.-s, sc
6	0	0	10, ci.-s, sc	10, ci.-s, sc
7	0	m : 0	10, ci.-s, sc, sl.-r	10, ci.-s, sc
8	0 : w	0	5, ci.-s, sc	5, ci.-s, sc, h.-r : 0
9	0	m : m : 0	0 : 8, ci.-s, sc	10, ci.-s, sc
10	0	0	8	10 : 0
11	s	s	0, h	0, h
12	s	s	0, f	0, f
13	s	s	0	7, ci.-s, sc : 10, ci.-s, sc
14	s	s	0	0 : 10, ci.-s, sc : 0
15	0	0	0 : 7, ci.-s, sc	0
16	s	s	10	10, so.-ha : 0
17	0	0	0	0
18	0	0	10, ci.-s, sc, th.-f	10, ci.-s, sc, th.-f
19	0	0	10, ci.-s, sc	10, ci.-s, sc
20	0	0	7, ci.-s, sc : 10, ci.-s, sc, r	10, ci.-s, sc, r
21	0	0	8, ci.-s, sc	8, ci.-s, sc : 8, ci.-s, sc, r
22	0	0	0 : 5, ci.-s, sc	7, ci.-s, sc : 0, a
23	0	0	0 : 3, ci.-s, sc	7, ci.-s, sc 7, ci.-s, sc 3, ci.-s, sc
24	s, N	s, N	10, ci.-s, sc, h.-r	10, ci.-s, sc, h.-r
25	s	s, N : 0 : s	10, ci.-s, sc, h.-s, h.-l	10, ci.-s, sc : v : 10, ci.-s, sc
26	0 : 0 : s	0	10, r, cu.-s, ci.-s, sc : 5, r, cu, cu.-s, sc	5, cu, ci.-s, sc : 5, cu, ci.-s, sc : 0
27	0	s	0	5, cu, ci.-s, sc : 5, cu, ci.-s, sc : 0, a
28	0	0	10	10

MONTH and DAY, 1849.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometer, read at 9h A. M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometer, read at 9h A. M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same day on an Average of 7 years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Mar. 1	Perigee First Quarter	29·616	51·8	31·8	41·1	31·0	56·0	35·5	42·8	41·1	10·1	14·3	8·2	+ 1·7	SSW	NW; WSW	8·0	0·0	2·4	..	0·10
2	..	30·079	52·6	39·8	44·7	36·6	65·0	36·0	42·8	41·1	8·1	12·8	6·2	+ 5·4	SW	SSW	3·0	0·0	0·6	..	0·00
3	..	30·288	55·5	40·8	46·9	40·5	72·0	36·0	43·8	41·8	6·4	9·4	5·2	+ 7·7	WSW; W by S	SW	0·0	0·0	0·0	..	0·00
4	..	30·315	60·0	43·4	50·4	39·7	74·0	43·0	45·5	42·8	10·7	16·0	4·6	+11·4	SW	SW	0·0	0·0	0·0	..	0·00
5	..	30·378	55·5	40·2	47·1	42·9	70·5	32·0	46·3	43·6	4·2	8·2	2·8	+ 8·3	SSW	WSW; N by W	1·0	0·0	0·1	..	0·00
6	..	30·385	56·8	35·7	46·8	37·8	70·0	26·5	46·8	45·1	9·0	14·6	4·4	+ 8·0	N by W; WNW	SW	2·5	0·0	0·6	..	0·00
7	..	29·832	54·3	39·1	47·2	42·8	61·0	37·7	47·5	45·6	4·4	8·2	1·8	+ 8·4	WSW	WSW	8·0	0·0	3·2	..	0·05
8	..	29·707	49·3	33·0	39·5	32·3	62·2	37·0	47·3	43·1	7·2	15·6	0·8	+ 0·4	W	NW; N	3·0	0·0	0·5	..	0·05
9	Full	29·807	42·0	27·9	34·1	29·2	52·9	21·0	46·7	44·6	4·9	11·0	4·9	— 5·4	NW; WSW	NW; W by S	2·0	0·0	0·4	..	0·02
10	In Equator	30·247	43·8	31·4	36·1	29·1	61·0	25·0	45·5	44·6	7·0	12·7	1·5	— 3·9	N	SW; WSW	2·5	0·0	1·0	..	0·00
11	..	30·270	43·7	29·8	37·2	26·2	56·6	32·0	44·1	42·6	11·0	15·1	9·1	— 3·3	Calm	SW	1·5	0·0	0·3	..	0·00
12	..	30·019	52·1	38·6	47·5	42·0	58·0	43·0	43·7	42·6	5·5	9·2	3·5	+ 6·4	SW	NW	3·0	0·0	0·6	..	0·00
13	..	29·998	59·3	40·9	47·8	40·9	73·0	37·7	44·1	43·6	7·9	12·5	6·5	+ 7·3	SW; NNW	N	2·8	0·0	0·2	..	0·00
14	..	30·146	48·5	39·4	42·9	38·4	65·0	39·0	45·7	43·1	4·5	7·4	4·8	+ 0·9	N	NW	0·0	0·0	0·0	..	0·00
15	Apogee	30·174	52·9	45·9	48·2	43·1	59·0	44·0	46·2	44·6	5·1	8·0	5·1	+ 5·9	NW	Calm	0·0	0·0	0·0	..	0·00
16	..	30·203	51·3	46·5	48·2	43·6	60·0	28·0	46·7	45·6	4·6	7·2	4·4	+ 5·6	Calm	Calm	0·0	0·0	0·0	..	0·00
17	Last Quarter Greatest Dec. S	30·157	60·7	36·6	47·8	41·0	77·7	30·0	47·1	46·1	6·8	12·2	3·9	+ 5·0	Calm	Calm	0·0	0·0	0·0	..	0·00
18	..	29·990	46·6	34·9	40·3	38·1	53·6	39·2	48·1	46·1	2·2	2·3	0·5	— 2·8	Calm	Calm	0·0	0·0	0·0	..	0·00
19	..	29·921	52·4	38·3	42·3	39·9	71·0	29·8	48·1	46·6	2·4	9·9	0·7	— 1·0	Calm	E	0·0	0·0	0·0	..	0·00
20	..	30·071	50·6	35·9	41·4	34·9	75·1	25·0	47·9	46·6	6·5	14·1	3·3	— 2·1	E; N	N	0·0	0·0	0·0	..	0·00
21	..	30·053	48·8	34·9	41·8	36·3	57·5	29·0	47·8	46·6	5·5	10·1	2·8	— 1·8	N; SSE	SSE; ESE	0·0	0·0	0·0	..	0·00
22	..	30·003	41·2	34·7	37·7	32·9	43·5	36·5	47·3	45·8	4·8	8·2	5·5	— 6·0	ESE; NE	N by E	0·0	0·0	0·0	..	0·00
23	..	29·877	48·5	38·4	40·4	35·4	51·5	24·0	46·7	44·8	5·0	8·3	4·0	— 3·5	N	NNE	0·0	0·0	0·0	..	0·00
24	In Equator New	29·829	45·5	29·0	36·2	26·8	54·5	24·0	45·8	43·6	9·4	15·4	6·9	— 7·9	N	N; NNW	3·0	0·0	0·8	..	0·00
25	..	29·777	38·1	27·7	33·4	29·1	44·5	33·0	44·7	42·6	4·3	6·8	3·6	—10·9	NNW	N	2·8	0·0	0·4	..	0·00
26	..	29·752	42·1	34·0	36·8	32·6	49·5	30·6	44·3	42·6	4·2	7·9	2·8	— 7·7	N by W	N by E	0·0	0·0	0·0	..	0·00
27	Perigee	29·328	45·0	34·2	38·9	25·6	55·8	33·8	44·1	42·1	13·3	10·3	3·8	— 5·7	N	N by E	0·0	0·0	0·0	..	0·00
28	..	29·197	44·2	34·9	39·1	34·0	55·0	36·0	43·8	42·1	5·1	8·5	4·0	— 5·7	N by E	NE	0·0	0·0	0·0	..	0·16
29	..	29·234	49·4	37·9	41·8	38·2	61·0	30·0	43·8	42·6	3·6	8·1	2·3	— 3·1	ENE	ENE	0·0	0·0	0·0	..	0·06
30	Greatest Declination N.	29·223	51·6	36·6	43·6	36·0	64·0	33·0	44·3	42·8	7·6	9·2	5·1	— 1·4	NE	SSE	0·0	0·0	0·0	..	0·01
31	First Qr.	29·476	58·6	36·4	48·0	38·6	74·5	34·5	45·8	42·6	9·4	15·0	2·4	+ 2·9	ESE	SSE	3·5	0·0	0·7	..	0·02
Apr. 1	..	29·375	55·7	42·4	47·1	41·6	69·5	37·8	46·8	43·0	5·5	8·6	6·2	+ 2·0	SSE	SSE	2·5	0·0	0·2	..	0·31
2	..	29·298	53·9	41·6	43·4	38·4	68·5	24·8	48·0	43·8	5·0	10·2	2·2	— 1·7	SSE	SSE	0·0	0·0	0·0	..	0·15
3	..	29·468	53·0	34·0	42·1	39·5	60·0	26·0	48·2	44·2	2·6	13·0	1·7	— 3·0	SSW	SSW	0·0	0·0	0·0	..	0·00
4	..	29·445	53·5	32·4	44·2	35·2	70·0	41·0	48·5	45·0	9·0	14·4	5·1	— 1·0	SW	ESE	2·5	0·0	0·2	..	0·00
5	..	29·337	58·3	43·9	47·4	43·9	80·8	26·0	48·8	45·8	3·5	9·6	1·3	+ 2·2	ESE	SE	0·0	0·0	0·0	..	0·06
6	In Equator	29·409	59·5	32·2	49·1	34·6	83·0	35·5	49·0	46·2	14·5	17·3	10·8	+ 4·0	ESE	SSE	0·0	0·0	0·0	..	0·00
7	Full	29·247	56·0	39·5	46·3	43·2	70·5	30·0	49·6	46·5	3·1	8·2	4·6	+ 1·4	ESE	SE	0·0	0·0	0·0	..	0·00
8	..	29·246	58·3	39·5	47·1	43·7	70·5	30·0	49·6	46·8	3·4	7·0	4·6	+ 2·4	ESE	SSE	0·0	0·0	0·0	..	0·10
9	..	29·352	54·7	36·8	44·1	42·4	67·8	30·0	49·8	47·0	1·7	7·8	1·4	— 0·4	SSE; ESE	NNE	0·0	0·0	0·0	..	0·02
10	..	29·453	50·7	42·1	43·1	41·5	56·5	40·0	49·5	46·8	1·6	6·1	1·1	— 1·2	N	N by E	3·5	0·0	0·5	..	0·05
11	..	29·611	45·8	36·5	38·2	36·0	59·3	32·0	48·6	45·5	2·2	6·1	3·8	— 6·0	N	N	2·5	0·0	0·9	..	0·01
12	Apogee	29·621	45·6	32·8	38·3	34·5	57·8	25·5	48·2	45·2	3·8	11·5	2·9	— 5·9	N	WSW; SW	0·0	0·0	0·0	..	0·01
13	..	29·128	46·7	37·7	40·1	38·9	57·0	35·0	47·8	45·0	1·2	6·7	2·0	— 4·4	SSW; SSE	SSE; SW	4·0	0·0	0·5	..	0·15
14	Greatest Declination S.	29·260	52·7	31·7	42·5	34·9	71·0	26·5	47·6	45·0	7·6	12·4	3·1	— 2·2	SW; E	SE; E by S	0·0	0·0	0·0	..	0·00
15	Last Qr.	29·[illegible]	44·7	34·1	39·9	37·5	49·2	30·0	47·7	46·4	2·4	6·7	1·5	— 5·3	NE	N by W	0·1	0·0	0·0	..	0·11
16	..	29·637	49·2	35·6	41·4	34·7	71·0	29·0	47·1	45·6	6·7	10·8	8·5	— 4·2	N	SW	0·0	0·0	0·0	..	0·00
17	..	29·612	44·3	27·7	34·8	24·7	66·3	23·8	46·7	44·6	10·1	17·3	8·0	—11·2	N	NW	2·8	0·0	0·5	..	0·00
18	..	29·681	46·8	26·8	37·6	29·6	64·8	32·0	45·7	44·1	8·0	14·5	3·6	— 8·8	NNW	SW	8·0	0·0	1·0	..	0·05
19	..	29·181	36·3	31·9	32·4	30·9	39·0	28·8	44·8	42·6	1·5	4·9	1·0	—14·5	S by E; NE	NE	4·8	0·0	1·8	..	0·70
20	..	29·496	47·5	32·1	37·0	34·5	62·0	19·0	43·9	41·1	2·5	8·7	4·5	—10·4	N by W	N by W	4·0	0·0	0·6	..	0·04
21	In Equator	29·741	46·2	28·6	36·8	29·4	62·0	19·0	43·5	41·1	7·4	11·5	3·6	—11·1	NNW	WSW	0·0	0·0	0·0	..	0·00
22	New	29·[illegible]	47·9	31·6	41·4	37·3	57·0	36·4	43·5	40·0	4·1	3·4	2·5	— 7·0	WSW; S	S	0·0	0·0	0·0	40	0·05
23	..	29·445	51·3	41·[illegible]	[illegible]·7	43·4	59·8	29·0	44·2	41·0	1·3	4·4	2·6	— 4·0	S by W	N by E; NW	0·3	0·0	0·0	80	0·26
24	Perigee	29·118	52·3	37·9	[illegible]·0	37·9	59·8	34·0	45·8	41·5	5·1	9·2	2·5	— 6·3	NNE	SW; SSE	0·2	0·0	0·0	70	0·00
25	..	29·607	56·9	44·4	49·1	42·7	68·2	39·0	47·5	43·0	6·4	11·6	2·4	— 0·5	SSE	NE; E; SE	0·0	0·0	0·0	30	0·01
26	..	29·643	61·5	43·8	48·0	41·9	71·0	30·0	50·0	44·0	6·1	11·4	1·4	— 2·0	SE; S	W	0·0	0·0	0·0	65	0·05
27	Greatest Declination N.	29·628	60·2	36·8	48·1	36·9	68·6	36·2	52·0	46·0	11·2	15·4	4·6	— 2·3	SW	SSW; S	2·0	0·0	0·4	105	0·01
28	..	29·470	57·8	41·8	47·1	42·5	77·9	30·0	53·0	48·0	4·6	10·0	5·0	— 3·8	SW	SW	3·0	0·0	0·1	50	0·08
29	First Qr.	30·102	62·5	39·9	51·9	42·9	75·0	41·0	55·4	49·5	9·0	13·0	9·4	+ 0·6	SW	S	0·0	0·0	0·0	30	0·00

MONTH and DAY, 1849.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Mar. 1	0	0	10, ci.-s, sc	0 : 0 : 10, ci.-s, sc
2	0	0	5, ci.-s, sc	5, ci.-s, sc
3	s	s	10	10
4	m	m	5 : 0	3, sc : 0 : 0
5	m	m	10, ci.-s, sc	10, ci.-s, sc
6	m	m	0 : 2, ci.-s, sc	10, ci.-s, sc : 3, ci.-s, sc : 9, ci.-s, sc, lu.-ha
7	0	0	7, ci.-s, sc : 7, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, sl.-r
8	m	m	0	10, ci.-s, sc, hl, r, sn : 5, cl.-s, sc, hl, r, sn
9	0	0	2 : 2	7 : 5 : 8, sn
10	m	m	3, ci.-s, sc : 3, ci.-s, sc	10, ci.-s, sc : 3, ci.-s, sc : 3, ci.-s, sc
11	0	m : 0	10, ci.-s, sc	10, ci.-s, sc : 8, ci.-s, s : 10, ci.-s, sc
12	0	w : 0	10, ci.-s, sc	10, ci.-s, sc
13	0	0	10, ci.-s, sc	8, ci.-s, sc : 10, ci.-s, sc
14	0	s	10, ci.-s, sc	10, ci.-s, sc
15	s	s	10, ci.-s, sc	10, ci.-s, sc
16	m	m	10, ci.-s, sc	10, ci.-s, sc
17	0	0	2, h	2, h
18	0	0	10, ci.-s, sc, th.-f	10, ci.-s, sc, th.-f
19	0	0	10	10 : 10 : 8
20	0	0	10, cu.-s, ci.-s, sc	8, cu.-s, ci.-s, sc : 0
21	0	0	10, ci.-s, sc	10, ci. s, sc : 0
22	0	0	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, l
23	0	0 : w	10, ci.-s, sc	10, ci.-s, sc
24	0	0	10, ci.-s, cu.-s, cu, sc, sn, h	10, ci.-s, cu.-s, cu, sc, m, h : 0
25			10, ci.-s, sc, sn	10, ci.-s, sc, sn
26			10, ci.-s, sc	10, ci.-s, sc
27			10, ci.-s, sc	10, ci.-s, sc
28			10, ci.-s, sc, hl, r	10, ci.-s, sc
29			10, cu.-s, ci.-s, sc, r	0
30			10, ci.-s, sc	10, ci.-s, sc, r : 10, ci.-s, sc
31			5, cu, cu.-s, sc	5, cu, cu.-s, sc, r : 5, cu, cu.-s, sc
Apr. 1			8, ci.-s, sc	8, ci.-s, sc : 8, ci.-s, sc, lt.-sh
2			8	8, r
3			10, ci.-s, sc	10, ci.-s, sc
4			7, cu, cu.-s, sc	7, cu, cu.-s, sc : 10, cu, cu.-s, sc
5			8, m.-r	8 : 0
6			0	0 : 7
7			8	0
8			10, ci.-s, sc, h.-r : 10, ci.-s, sc	8, ci.-s, sc, : 0
9			10, ci.-s, sc	10, ci.-s, sc, r
10			9, ci.-s, sc, h.-r : 10, ci.-s, sc	9, ci.-s, sc, h.-r : 9, ci.-s, sc
11			8, ci.-s, sc, r	8, ci.-s, sc, r : 0
12	0	0	7, ci.-s, sc, r	7, ci.-s, sc, r
13	s, N	s, N	10, ci.-s, sc, h.-shs	10, ci.-s, sc, h.-shs
14	m	m	5, ci.-s, cu, li.-cls, sc	5, ci.-s, cu, li.-cls, sc
15	v	v	10, ci.-s, sc, r	10, ci.-s, sc, r : 10, ci.-s, sc : 0
16	m	m : 0	10, ci.-s, sc	10, ci.-s, sc
17	0	0	9	9 : 10, sn : 0 : 10, sn
18	0	0	8, cu.-s, ci.-s, sc, sn	8, cu.-s, ci.-s, sc, r, sn
19	s, N, sps, g. cur	s, N, sps, g. cur	10, ci.-s, sc, sn, r	10, ci.-s, sc, sn, r : 10, ci.-s, sc
20	s, sps	s	7, fr.-shs, hl, sl, r	7, fr.-shs, hl, sl, r : 0
21	s	s	10	10 : 0
22	0	0	10, ci.-s, sc, m.-r	10, ci.-s, sc
23	0	0	10, ci.-s, sc, r	10, ci.-s, sc, r : 10, ci.-s, sc, fr.-shs
24	0	0	10, ci.-s, sc	10, ci.-s, sc
25	0	0 : w	10, ci.-s : 10, ci.-s, r	10, ci.-s
26	0	0	10, cu, ci.-s, sc, r	7, cu, ci.-s, sc, r : 0
27	m	m	7, cu, ci.-s, sc	7, cu, ci.-s, sc : 10, cu, ci.-s, h.-sh.-r
28	0	P, N, g. cur, sps	7, cu, cu.-s, sc, fr.-h-shs	7, cu, cu.-s, sc, fr.-h.-shs, t : 7, cu, cu.-s, sc, fr.-h.-shs
29	0	0 : s	0	10, ci.-s

MONTH and DAY, 1849.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometer, read at 9h A. M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometer, read at 9h A. M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 7 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	P. M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Wherwell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Apr. 30	..	30·140	64·3	45·3	53·6	43·0	85·7	28·0	57·4	50·8	10·6	14·6	3·0	+ 1·8	ENE	NE	0·2	0·0	0·0	90	0·00
May 1	..	29·920	59·0	38·0	49·4	41·3	73·8	35·0	57·8	51·3	8·1	12·8	4.6	— 2·8	N	NNE	0·3	0·0	0·0	80	0·00
2	..	29·785	65·7	43·3	53·2	50·0	76·8	42·0	57·6	52·3	3·2	6·8	2·0	+ 0·8	N	NE	3·5	0·0	0·4	80	0·03
3	In Equator.	29·701	70·1	47·6	57·7	51·6	90·5	35·8	58·4	53·3	6·1	8·8	2·9	+ 5·2	NNE	NE	0·1	0·0	0·0	70	0·14
4	..	29·715	72·8	45·4	61·3	51·0	94·0	40·0	59·6	54·5	10·3	14·3	4·9	+ 8·9	NE	ENE	0·0	0·0	0·0	70	0·00
5	..	29·653	75·0	45·4	59·6	49·0	96·5	38·0	60·2	55·5	10·6	14·6	4·0	+ 7·6	ENE	NE	3·0	0·0	0·3	95	0·00
6	..	29·683	63·0	43·6	50·7	44·2	85·7	42·8	59·8	55·3	6·5	8·2	5·7	— 0·9	N by E	NNE	3·0	0·0	0·4	130	0·00
7	Full	29·804	55·8	42·7	45·3	39·3	69·3	28·0	58·2	53·5	6·0	9·8	3·7	— 6·4	NE	NNE	4·0	0·0	0·5	220	0·00
8	..	29·880	52·8	36·8	43·8	34·0	73·0	32·0	57·0	52·1	9·8	13·4	6·0	— 8·2	N by E	N	3·7	0·0	0·3	100	0·00
9	Apogee	29·848	50·7	39·4	43·0	37·0	64·8	38·0	56·4	51·3	6·0	10·8	1·7	— 9·2	N	N by E	1·8	0·0	0·0	15	0·02
10	..	29·762	48·6	40·1	42·2	37·9	59·0	41·0	55·6	50·8	4·3	8·1	4·4	—10·2	NW	NNW	0·0	0·0	0·0	80	0·04
11	Greatest Declination S.	29·787	56·6	42·3	46·3	41·5	71·8	26·7	54·8	50·5	4·8	8·6	1·0	— 6·3	N	N by W	2·3	0·0	0·1	80	0·00
12	..	30·084	58·8	36·4	47·2	40·4	74·5	26·7	54·8	50·5	6·8	11·6	6·5	— 5·4	N by W	E by S; E by N	0·0	0·0	0·0	80	0·00
13	..	29·817	63·9	43·3	54·6	47·2	76·8	38·0	53·8	52·4	7·4	10·0	3·6	+ 2·0	ESE and SSW	WSW	1·0	0·0	0·0	85	0·00
14	..	29·428	64·4	45·8	54·5	47·5	84·8	40·0	55·3	52·8	7·0	12·0	4·0	+ 1·9	SW	SW	1·5	0·0	0·4	60	0·07
15	Last Qr.	29·417	63·2	47·6	55·3	43·7	92·3	45·8	56·5	53·8	11·6	15·4	8·2	+ 2·8	SW; WSW	SSW	2·5	0·0	0·2	150	0·00
16	..	29·306	64·0	48·8	55·8	51·6	81·8	43·8	57·8	54·4	4·2	9·4	2·4	+ 3·4	SSW; SSE	SW; S	3·0	0·0	0·8	155	0·47
17	..	29·207	62·2	50·6	53·9	49·5	73·0	43·0	58·8	55·1	4·4	9·9	3·2	+ 1·9	SSW	SW	12·0	0·0	3·3	250	0·04
18	In Equator.	29·450	64·6	50·4	55·7	49·0	75·4	43·0	59·1	55·8	6·7	11·1	4·9	+ 3·9	SW	WSW	4·5	0·0	1·3	155	0·04
19	..	29·859	66·0	48·4	54·2	45·4	81·7	43·6	58·9	56·1	8·8	13·6	5·0	+ 2·1	WNW	WSW; SW	1·5	0·0	0·1	80	0·05
20	..	29·652	56·2	50·6	51·9	51·3	58·0	42·7	58·9	56·4	0·6	1·6	0·6	— 0·9	SSE	SSW	0·3	0·0	0·0	55	0·90
21	..	29·704	65·4	51·6	57·7	53·7	89·0	40·5	58·8	56·8	4·0	9·1	1·9	+ 4·0	SE	ENE; SE	0·2	0·0	0·0	85	0·12
22	New Perigee	29·673	63·8	48·6	52·8	49·6	79·5	41·0	58·5	56·8	3·2	9·4	2·3	— 1·7	S	SSW	0·1	0·0	0·0	75	0·34
23	..	29·953	63·6	53·6	57·1	47·4	87·0	38·0	59·8	57·6	9·7	12·8	6·2	+ 1·8	WSW	NW; Calm	3·0	0·0	0·5	145	0·00
24	Greatest Declination N.	30·021	68·6	45·4	59·6	49·0	97·2	47·0	61·3	58·6	10·6	13·5	4·4	+ 3·8	S	S by W	0·0	0·0	0·0	45	0·01
25	..	29·832	70·6	54·0	60·9	50·3	79·5	44·0	62·7	59·6	10·6	15·0	7·7	+ 4·7	SSE	Calm	0·0	0·0	0·0	40	0·00
26	..	29·895	66·0	52·3	58·4	46·8	92·0	44·0	63·3	60·6	11·6	13·8	8·7	+ 1·9	Calm	SSW	0·0	0·0	0·0	65	0·00
27	..	29·942	74·4	48·4	62·4	49·5	97·8	44·0	64·8	61·6	12·9	19·5	8·7	— 5·8	SW	NNE; NE	0·0	0·0	0·0	55	0·00
28	First Qr.	30·051	57·2	51·1	52·6	51·6	60·0	42·0	63·9	61·6	1·0	1·9	0·0	— 4·3	N	N	0·0	0·0	0·0	45	1·15
29	..	30·060	67·8	51·3	58·4	51·7	91·0	41·0	63·5	61·6	6·7	11·8	4·8	+ 1·0	N; NNW	NNE; E	0·0	0·0	0·0	10	0·45
30	..	30·022	72·4	49·8	61·9	51·5	..	46·0	63·8	62·4	10·4	13·1	6·8	+ 4·0	SSE; SW	WSW; N	0·0	0·0	0·0	40	0·00
31	In Equator.	29·845	74·9	54·6	64·3	59·7	..	41·0	65·3	63·1	4·6	7·0	3·9	+ 5·9	SE	SSW	0·0	0·0	0·0	110	0·00
June 1	..	29·963	68·6	50·6	59·9	54·1	97·0	41·0	65·3	63·1	5·8	11·2	4·7	+ 1·1	SW	WSW	0·0	0·0	0·0	10	0·00
2	..	29·962	70·4	52·3	63·3	53·9	97·5	..	65·5	63·6	9·4	13·1	8·3	+ 3·9	Calm	N; NNE	0·0	0·0	0·0	45	0·00
3	..	30·090	77·2	48·5	62·2	51·5	97·3	43·8	65·9	64·1	10·7	15·3	4·8	+ 2·7	NE	NE	0·8	0·0	0·1	45	0·00
4	..	29·933	74·3	49·1	63·1	57·5	94·7	48·0	66·5	64·6	5·6	12·8	3·1	+ 3·8	ENE	ENE	0·0	0·0	0·0	60	0·00
5	Full	29·745	80·7	56·6	68·6	61·1	..	53·0	67·5	65·6	7·5	13·4	3·4	+ 9·5	NE	N by W	0·0	0·0	0·0	40	0·01
6	Apogee	30·002	63·2	55·6	56·8	51·5	..	47·8	67·3	65·1	5·3	8·5	2·1	— 2·1	N	ENE	0·0	0·0	0·0	95	0·11
7	Greatest Declination S.	29·997	68·2	50·5	58·3	48·0	..	47·0	66·6	65·1	10·3	16·8	6·8	— 0·4	NE	ENE	0·5	0·0	0·0	85	0·01
8	..	29·845	67·7	50·6	57·3	47·0	..	36·0	66·5	64·6	10·3	16·0	6·4	— 1·3	ENE	NE	0·2	0·0	0·0	70	0·00
9	..	29·744	64·4	42·6	52·3	39·9	..	38·0	66·1	63·6	12·4	18·2	6·2	— 6·4	NNE	N by E	0·0	0·0	0·0	55	0·00
10	..	29·584	58·1	44·2	50·3	41·7	..	35·0	65·3	62·6	8·6	12·9	4·1	— 8·7	N	N	3·5	0·0	0·2	90	0·00
11	..	29·703	61·4	43·2	50·3	43·6	..	32·0	63·9	61·4	6·7	13·7	1·6	— 9·4	N	NNE	0·0	0·0	0·0	60	0·00
12	..	29·807	59·0	40·7	50·0	41·2	..	34·0	62·3	60·1	8·8	14·8	2·6	—10·7	S by E; W	WNW	0·0	0·0	0·0	40	0·01
13	Last Qr.	29·957	67·6	47·2	54·8	41·8	..	32·5	61·8	59·6	13·0	18·9	10·6	— 6·2	NW	E	0·0	0·0	0·0	35	0·00
14	In Equator.	30·009	67·1	38·6	54·2	38·2	..	33·5	62·8	60·1	16·0	24·5	4·4	— 6·9	E	ENE	0·0	0·0	0·0	30	0·00
15	..	29·739	69·3	43·1	57·3	49·1	..	41·0	62·8	60·6	8·2	13·6	4·2	— 3·9	ENE	ENE	1·4	0·0	0·0	55	0·00
16	..	29·650	69·6	48·4	57·6	51·9	88·2	40·0	62·3	60·6	5·7	12·8	5·2	— 3·6	NNE	N	1·0	0·0	0·0	140	0·00
17	..	29·847	68·2	48·2	54·9	46·9	92·4	42·8	62·3	60·6	8·0	12·2	3·3	— 6·1	N	N; ENE	0·5	0·0	0·0	10	0·00
18	..	29·916	70·3	42·8	58·5	41·2	98·0	44·0	62·7	61·1	17·3	21·0	10·8	— 2·3	E	S by W	0·5	0·0	0·0	120	0·00
19	..	29·726	63·2	46·7	54·5	45·5	75·7	35·5	62·3	60·8	9·0	15·0	4·9	— 6·2	S by W	SW	5·0	0·0	0·5	120	0·00
20	New Perigee	30·014	70·6	46·1	57·7	46·7	92·6	44·8	62·7	60·8	11·0	17·4	6·5	— 2·8	NW; NE	SSW	0·0	0·0	0·0	70	0·00
21	Greatest Declination N.	29·965	73·3	51·2	62·4	51·5	93·0	33·8	62·8	61·6	10·9	14·3	11·7	+ 1·9	SSW	WSW	2·8	0·0	0·2	120	0·00
22	..	29·996	71·1	45·8	59·2	46·1	95·2	43·0	64·3	62·1	13·1	18·0	8·7	— 1·2	N by W	SW	0·0	0·0	0·0	45	0·00
23	..	29·769	78·6	51·4	67·1	54·0	106·8	44·0	65·8	63·1	13·1	21·0	7·7	+ 6·8	S by W	W	0·0	0·0	0·0	20	0·00
24	..	29·791	73·9	50·3	60·7	48·1	100·2	40·5	67·3	64·1	12·6	19·5	4·0	+ 0·5	N	NE	0·0	0·0	0·0	10	0·00
25	..	29·817	71·0	48·5	61·2	48·6	93·8	45·8	68·3	64·6	12·6	17·7	10·4	+ 1·2	ESE	SE	0·0	0·0	0·0	70	0·00
26	..	29·833	75·6	55·3	65·0	52·4	100·7	45·0	68·3	65·1	12·6	19·4	8·8	+ 5·3	SSW	W	2·0	0·0	0·4	150	0·00
27	First Quarter in Equator	29·914	75·6	53·5	64·4	52·7	98·8	42·0	68·8	65·1	11·7	19·2	5·4	+ 4·9	WSW	WSW	1·7	0·0	0·0	65	0·00

MONTH and DAY, 1849.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Apr. 30	v	v	0	0
May 1	0	0 : s	10, ci.-s, sc	10, ci.-s, sc
2	0	0	10, ci.-s, sc : 10, ci.-s, sc, sl.-r	10, ci.-s, sc, t.-s : 10, ci.-s, sc, sl.-r
3	0	s : 0 : s	8	0 : 0, l
4	s : 0	s	0	0
5	0	s : 0	7, cu, cu.-s, sc	7, cu, cu.-s, sc, t : 0
6	0	0	10, cu, ci, sc : 8, cu, ci, sc	10, cu, ci, sc
7	0	0	10, ci.-s, sc	7, ci.-s, sc : 10, ci.-s, sc
8	0	0	5, ci.-s, sc	10, ci.-s, sc
9	0	0	10, ci.-s, sc	10, ci.-s, sc, r
10	0	0	10, ci.-s, sc	10, ci.-s, sc, r
11	0	0	10	10 : 0 : 10
12	0	0	8, ci.-s, li.-cls, sc	8, ci.-s, li.-cls, sc
13	0	0	8, ci.-s, sc	8, ci.-s, sc : 0
14	0	0	10, cu, ci.-s, sc : 7, cu, ci.-s, sc	7, cu, ci.-s, sc : 10, cu, ci.-s, sc
15	0	0	7, ci.-s, sc	7, ci.-s, sc : 0
16	0	0	10, ci.-s, sc, h.-r	9, ci.-s, sc : 10, ci.-s, sc, h.-r
17	0	0	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, fr.-shs
18	s N	s N	10, ci.-s, sc, li.-cls, h.-sh	7, ci.-s, sc, li.-cls : 10, ci.-s, sc, li.-cls
19	0	0	10, cu, ci.-s, sc	10, cu, ci.-s, sc
20	0	0	10, ci.-s, sc, r	10, ci.-s, sc, r : 10, ci.-s, sc
21	0	0	10, ci.-s, sc, li.-cls	7, ci.-s, sc, li.-cls, sh
22	0	0	10, cu, ci.-s, sc, r	7, cu, ci.-s, sc, fr.-shs
23	0	0	5, cu, cu.-s, sc	5, cu, cu.-s, sc
24	s : 0 : 0	0	0 : 7, cu, cu.-s, sc	7, cu, cu.-s, sc
25	0	0	7, cu, cu.-s, li.-cls	7, cu, cu.-s, li.-cls : 10
26	0	0	8, sl.-r : 7	3 : 10
27	0	0	3, ci, li.-cls	3, ci, li.-cls
28	s N	s N	10, ci.-s, sc	10, ci.-s, sc, h.-r
29	0	0	10, cu, ci.-s, sc	7, cu, ci.-s, sc : 5, cu, ci.-s, sc : 0
30	0	0	0 : 5, ci.-s, sc	5, ci.-s, sc : 7, ci.-s, sc
31	0	0	10, ci.-s, sc	10, ci.-s, sc : 5, ci.-s, sc
June 1	m	m	6, ci.-s, sc	10, ci.-s, sc : 0
2	s	s	8, cu, li.-cls, ci.-s, sc	10, cu, li.-cls, ci.-s, sc
3	0	0	0	0
4	s	s : 0	7, cu, cu.-s, sc	7, cu, cu.-s, sc : 10, cu, cu.-s, sc
5	s	s, sps, g. cur : 0	0	5, cu, ci.-s, sc, t : 10, cu, ci.-s, sc, sl.-sh
6	0	0	10, ci.-s, sc	10, ci.-s, sc, r : 10, ci.-s, sc, r : 10, ci.-s, sc
7	0	0	8, cu, ci.-s, sc	10, cu, ci.-s, sc
8	v	v : 0	5, cu.-s, li.-cls, sc	10, cu.-s, li.-cls, sc
9	0	0	3, ci.-s, li.-cls	3, ci.-s, sc, li.-cls : 0
10	0	0	10, ci.-s, sc	10, ci.-s, sc : 0
11	0	0	10, ci.-s, sc	10, ci.-s, sc : 0
12	0	0	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc, fr.-shs
13	0	0 : 0 : s	5, cu, cu.-s, sc	5, cu, cu.-s, sc : 0
14	v	v	0	2, cu, li.-cls : 0
15	s	s	10, ci.-s, sc	10, ci.-s, sc
16	0	0	10, cu, cu.-s, ci.-s, sc	10, cu, cu.-s, ci.-s, sc : 5, cu, cu.-s, ci.-s, sc
17	0	0	8, cu, cu.-s, sc	0
18	0	0 : 0 : w	3, cu, li.-cls	3, cu, li.-cls
19	0	0	10, ci.-s, sc	10, ci.-s, sc : 5, ci.-s, sc
20	0	m : 0	5, ci, li.-cls	5, ci, li.-cls : 10, ci, li.-cls
21	0	0	9, cu, cu.-s, ci.-s, sc	9, cu, cu.-s, ci.-s, sc
22	0	v	5, cu, ci, sc	0
23	s	s	0	0
24	0 : m	0	0	0
25	0	sN, fr.-sps, g.cur: wP	10, ci.-s, sc	10, ci.-s, sc, sh : 5, ci.-s, sc
26	v	0 : v : v	7, cu, ci.-s, sc	7, cu, ci.-s, sc
27	v	v	10, cu, ci.-s, sc	5, cu, ci.-s, sc : 0

MONTH and DAY, 1849.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometer, read at 9h A. M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometer, read at 9h A. M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same day on an Average of 7 years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
June 28	..	29·923	62·5	49·8	56·3	44·5	89·0	44·2	68·3	65·6	11·8	17·0	6·0	— 3·3	WSW	NNW	0·0	0·0	0·0	50	0·00
29	..	29·900	67·8	49·9	58·3	50·7	93·0	46·5	67·9	65·4	7·6	16·0	2·1	— 1·4	E	S by W	0·0	0·0	0·0	55	0·00
30	..	29·910	63·3	53·1	55·3	47·7	80·0	32·8	67·7	65·1	7·6	12·1	8·2	— 4·9	S by W; NE	N	4·0	0·0	0·5	115	0·10
July 1	..	29·899	75·0	39·5	60·9	47·4	97·0	32·8	66·7	65·1	13·5	17·0	6·8	+ 0·2	NNW; SW	SW	1·0	0·0	0·0	125	0·00
2	..	29·886	73·2	57·5	62·4	46·2	93·6	54·6	66·1	64·8	16·2	21·0	12·0	+ 1·1	NW	NW	2·0	0·0	0·2	110	0·00
3	Apogee	29·570	73·1	56·2	62·6	54·1	89·7	47·0	65·9	64·4	8·5	14·7	7·1	+ 1·0	SW	SW	6·0	0·0	0·5	205	0·00
4	Greatest Declination S.	29·573	66·3	54·5	58·6	46·6	84·0	53·8	65·5	63·6	12·0	16·0	6·2	— 3·2	WSW	W	0·0	0·0	0·0	..	0·00
5	Full	29·780	73·1	47·2	61·1	43·6	97·7	38·6	65·3	63·4	17·5	23·3	12·7	— 0·8	N by W	NW & W	0·0	0·0	0·0	..	0·00
6	..	29·974	74·3	49·8	62·7	47·6	95·2	42·2	65·7	63·6	15·1	21·8	9·9	+ 0·9	WSW	SSW	0·7	0·0	0·0	..	0·00
7	..	29·911	82·1	55·5	70·6	52·4	103·5	53·3	66·8	64·8	18·2	27·0	10·2	+ 9·2	S	SSW	0·0	0·0	0·0	..	0·00
8	..	29·972	84·1	59·0	71·4	59·1	109·0	46·3	68·7	65·6	12·3	17·1	11·6	+10·5	SW	W	0·0	0·0	0·0	..	0·00
9	..	30·125	79·0	56·3	67·5	49·9	99·8	40·0	69·8	66·6	17·6	27·0	7·2	+ 6·9	W	NNE	0·3	0·0	0·0	..	0·00
10	..	30·225	78·2	50·0	65·5	49·7	104·0	39·0	70·1	67·1	15·8	24·8	12·7	+ 4·8	NE	ENE	0·0	0·0	0·0	..	0·00
11	..	30·234	76·7	47·3	64·9	48·5	100·0	39·0	70·5	67·6	16·4	22·1	10·5	+ 3·9	E	ENE	0·5	0·0	0·0	..	0·00
12	In Equator	30·191	80·0	47·0	66·1	51·5	100·8	42·5	70·8	68·1	14·6	23·1	5·7	+ 4·8	ENE	NE	0·0	0·0	0·0	130	0·00
13	Last Qr.	30·101	81·3	51·6	67·3	54·2	101·8	40·7	69·9	68·1	13·1	22·4	6·5	+ 5·7	NE	ENE	0·0	0·0	0·0	105	0·00
14	..	30·056	82·5	48·6	65·2	52·9	98·0	48·0	70·5	68·4	12·3	21·5	3·8	+ 3·4	NNE	NNE	0·0	0·0	0·0	55	0·00
15	..	29·982	75·4	53·6	61·4	53·5	90·0	40·0	70·1	67·8	7·9	10·9	2·2	— 0·4	NNE	ENE	0·0	0·0	0·0	70	0·00
16	..	29·932	83·6	50·9	67·3	52·3	94·0	49·0	69·5	67·6	15·0	24·0	9·7	+ 5·8	NE	NNE; E; SE	0·0	0·0	0·0	85	0·00
17	..	29·687	71·6	56·4	62·6	54·9	93·0	42·0	69·3	67·1	7·7	18·8	1·8	+ 1·6	SSE	SW	0·0	0·0	0·0	105	0·03
18	Perigee Greatest Dec. N.	29·562	73·1	49·4	59·1	50·1	92·7	46·8	..	..	9·0	17·6	4·3	— 1·6	N; WSW	SW	4·0	0·0	0·2	165	0·19
19	New	29·463	67·8	51·6	56·9	47·2	88·0	42·0	..	..	9·7	16·3	2·8	— 3·6	WSW	SW	0·0	0·0	0·0	80	0·26
20	..	29·458	71·3	48·1	57·5	49·7	84·0	42·8	..	..	7·8	16·0	3·0	— 2·8	SW	W; NW; NE; SE	0·0	0·0	0·0	85	0·10
21	..	29·762	70·4	48·6	58·9	50·0	86·8	50·0	..	..	8·9	12·8	7·6	— 1·4	SW	WSW	0·0	0·0	0·0	115	0·01
22	..	29·878	72·4	47·8	61·3	49·6	93·8	53·5	..	..	11·7	17·3	3·8	+ 0·9	SW	SSW	0·0	0·0	0·0	110	0·00
23	..	29·559	67·6	54·8	57·0	52·4	80·0	46·3	..	..	4·6	9·7	3·6	— 3·6	S	SW	4·0	0·0	0·2	135	0·26
24	In Equator	29·342	67·6	50·8	55·3	52·7	78·7	41·8	..	..	2·6	6·8	3·2	— 5·6	SW	SW	3·8	0·0	0·1	120	0·75
25	..	29·330	66·6	47·6	57·5	51·8	83·2	46·0	..	..	5·7	11·4	2·7	— 3·8	SW	SW	1·9	0·0	0·1	150	0·55
26	..	29·454	73·1	51·6	57·6	54·2	93·5	43·8	..	..	3·4	9·0	1·3	— 3·9	SW	W	2·8	0·0	0·1	75	0·57
27	First Qr.	29·777	75·4	50·1	61·7	56·3	94·0	45·0	..	..	5·4	11·1	5·1	0·0	W	WSW	0·0	0·0	0·0	45	0·02
28	..	29·843	74·6	49·8	62·0	52·6	94·0	53·0	..	..	9·4	13·2	5·1	+ 0·3	WSW	SSW	1·0	0·0	0·0	85	0·00
29	..	29·671	65·5	56·4	58·9	54·5	..	50·0	..	..	4·4	4·6	4·2	— 2·8	SSW	SW	3·0	0·0	0·1	180	0·19
30	Apogee	29·634	73·9	52·6	61·4	51·0	93·2	46·8	..	..	10·4	13·5	7·4	— 0·2	WSW	SW	3·3	0·0	0·2	190	0·03
31	..	29·721	71·5	52·2	61·0	48·2	90·0	44·0	..	..	12·8	16·8	9·7	— 0·5	SW	WSW	2·7	0·0	0·1	140	0·00
Aug. 1	Greatest Declination S.	29·659	73·4	49·4	60·3	48·1	91·5	41·8	..	..	12·2	16·0	7·7	— 0·9	WSW	NW	0·0	0·0	0·0	85	0·00
2	..	29·965	74·5	50·2	62·5	53·5	93·0	55·0	..	..	9·0	14·4	2·6	+ 1·3	NNW	W	0·0	0·0	0·0	90	0·00
3	..	29·870	65·5	52·2	55·9	50·7	88·0	35·0	..	..	5·2	10·3	2·9	— 5·4	W & NNE	N	0·0	0·0	0·0	59	0·17
4	Full	29·836	71·4	43·2	56·5	43·5	94·0	38·0	..	..	13·0	18·3	5·4	— 5·1	NNW	NE	0·0	0·0	0·0	15	0·00
5	..	29·700	73·2	42·4	58·8	47·3	92·0	..	..	..	11·5	16·3	5·0	— 2·8	NE	ENE	0·0	0·0	0·0	35	0·00
6	..	29·083	77·5	45·4	62·3	47·6	93·8	40·0	63·0	62·4	14·7	18·8	12·5	+ 0·6	ENE	SW	0·0	0·0	0·0	40	0·00
7	..	29·896	81·9	47·1	67·7	55·5	100·0	57·0	63·2	62·9	12·2	18·0	4·3	+ 6·0	SE	S	0·0	0·0	0·0	50	0·00
8	In Equator	29·741	78·5	60·9	70·8	60·4	104·5	56·0	65·6	63·9	10·4	17·9	5·1	+ 9·2	SSE	SSW	0·0	0·0	0·0	75	0·24
9	..	29·574	82·5	56·0	66·6	60·8	..	52·8	66·3	64·4	5·8	8·9	5·8	+ 5·2	SSW	SW	0·0	0·0	0·0	80	0·00
10	..	29·684	81·7	58·4	67·4	58·9	103·0	55·0	67·3	64·9	8·5	14·3	5·6	+ 6·2	SW	SW	0·0	0·0	0·0	55	0·00
11	Last Qr.	29·743	78·5	60·0	68·9	55·6	99·0	52·0	68·0	65·1	13·3	18·8	7·6	+ 7·8	SW	SSW	1·8	0·0	0·1	85	0·00
12	..	29·611	73·2	61·4	65·5	57·2	..	53·0	68·3	65·4	8·3	11·3	4·5	+ 4·4	SSW	SSW	3·8	0·0	0·9	120	0·00
13	..	29·478	70·1	57·4	61·1	52·5	64·0	49·0	67·3	64·9	8·6	14·3	6·8	— 0·1	SW	SW	6·0	0·0	1·9	240	0·03
14	Greatest Declination N	29·602	71·7	54·9	61·1	50·5	78·0	..	66·8	65·1	10·6	15·7	4·5	— 0·2	WSW	SW	3·3	0·0	0·7	185	0·01
15	Perigee	29·775	73·7	53·2	61·2	50·2	80·0	48·0	65·8	63·4	11·0	16·8	4·9	— 0·3	SW	SSW	2·0	0·0	0·6	179	0·00
16	..	29·647	66·7	53·6	58·1	53·5	77·0	38·0	64·8	62·7	4·6	9·4	2·7	— 3·6	SSW	SW	2·0	0·0	0·3	140	0·12
17	..	29·762	71·7	46·1	57·5	47·8	86·8	37·0	64·0	61·9	9·7	15·2	5·0	— 4·3	WSW	SW	1·5	0·0	0·1	70	0·02
18	New	29·873	68·2	45·7	57·9	45·5	87·0	34·5	63·8	61·1	12·4	14·2	8·8	— 3·8	WSW	NW	0·3	0·0	0·0	75	0·01
19	..	30·100	72·5	54·6	60·2	49·0	..	46·6	63·3	60·4	11·2	14·7	6·7	— 1·4	NW	N	0·0	0·0	0·0	25	0·00
20	..	30·212	70·7	52·1	61·5	53·7	81·7	46·0	62·8	60·9	7·8	12·0	6·1	+ 0·3	NW	W	0·0	0·0	0·0	85	0·00
21	In Equator	30·161	77·5	54·2	64·1	54·6	86·0	56·7	63·3	61·4	9·5	14·3	7·3	+ 3·6	W	WSW	0·0	0·0	0·0	15	0·00
22	..	30·041	73·6	58·8	63·4	54·0	80·4	52·8	63·6	61·4	9·4	12·8	8·2	+ 3·7	WSW	WSW	0·0	0·0	0·0	45	0·00
23	..	30·014	71·7	56·9	62·2	55·4	77·0	50·0	63·4	61·7	6·8	11·2	4·1	+ 2·7	WSW	N	0·0	0·0	0·0	30	0·00
24	..	30·025	75·5	56·0	63·3	53·3	89·8	51·0	64·2	62·1	10·0	17·4	5·6	+ 3·5	NNE	E	0·0	0·0	0·0	40	0·01
25	First Qr.	29·982	78·7	55·0	65·9	55·5	..	50·0	64·8	62·7	10·4	15·8	8·3	+ 5·7	ESE	SW; NW	0·0	0·0	0·0	70	0·00

MONTH and DAY, 1849.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
June 28	0	s : 0	10, ci.-s, sc	10, ci.-s, sc
29	0	0	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, r
30	0	0	8, ci.-s, sc, r : 8, ci.-s, sc	8, ci,-s, sc : 0
July 1	0	0	0	0 : 10, ci.-s, sc
2	0	0	5, ci.-s, sc	5, ci.-s, sc
3	0	0	10, cu, cu.-s, ci.-s, sc, s, w	5, cu, cu.-s, ci.-s, sc, s, w : 5, cu, cu.-s, ci.-s, sc
4	0	0	10, ci.-s, sc	10, ci.-s, sc : 5, ci.-s, sc
5	0 : m : 0	0	5, cu, ci.-s, sc	5, cu, ci.-s, sc
6	0	m : 0 : 0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	2, cu.-s, h	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	7, cu, cu.-s, sc	7, cu, cu.-s, sc : 0 : 0
14	0	0	10, ci.-s : 5, ci.-s	5, ci.-s : 0 : 10
15	0	0	10, ci.-s, sc, sl.-sh	0
16	0	0	10, cu, ci.-s, sc : 5, cu, ci.-s, sc	5, cu, ci.-s, sc
17	0	0	10, ci.-s, sc	10, ci.-s, sc, fr.-shs
18	0	0	10, ci.-s, sc	10, ci.-s, sc, r : 5, ci.-s, sc
19	0	s, N, fr.-sps, g. cur	10, cu, ci.-s, sc	10, cu, ci.-s, sc, l, t, h.-r : 10, cu, ci.-s, sc
20	0	s, N, shs, g. cur : m	10, cu, ci.-s, sc	10, cu, ci.-s, sc, l, t, sl.-shs : 10, cu, ci.-s, sc
21	0	0	10, ci.-s, sc	10, ci.-s, sc
22	0	0	5, cu, ci.-s, sc	10, cu, ci.-s, sc
23	0	0	10, ci.-s, sc, fr.-shs	10, ci.-s, sc, fr.-shs : 0
24	s	0 : s, N	10, cu, cu.-s, ci.-s, sc, fr.-h.-shs	10, cu, cu.-s, ci.-s, sc : 10, ci.-s, sc, h.-r
25	s, N	s, N	7, cu, sc, fr.-h.-shs	7, cu, sc, fr.-h.-shs
26	s, N, sps, g. cur	s, P, sps, g. cur; s, N, sps, g. cur	10, cu, ci.-s, sc	10, cu, ci.-s sc, t.-s : 5, cu, ci.-s, sc
27	0	0	10, cu.-s, sc	10, cu.-s, sc, sh.-r : 10, cu.-s, sc, sh.-r
28	w	w	0	7, ci.-s, sc : 10, ci.-s, sc
29	v	v	10, ci.-s, sc	5, ci.-s, sc, h.-shs : 5, ci.-s, sc
30	0	w	5, ci.-cu, ci.-s, sc	7, ci.-cu ci.-sc : 3, shs.-r
31	v	v	10, ci.-s, sc	10, ci.-s, sc
Aug. 1	0	s	7, cu, ci.-cu, ci.-s, sc	7, cu, ci.-cu, ci.-s, sc
2	v	v	8, ci.-s, sc	8, ci.-s, sc : 8, ci.-s, sc, sh
3	0	s	10, ci.-s, sc, r : 10, ci.-s, sc	10, ci.-s, sc
4	v	v	7, cu, ci, sc	7, cu, ci, sc
5	0	0 : w	0 : 3	0
6	s	s	5, cu.-s, li.-cls, sc	5, cu.-s, li.-cls, sc : 0
7	s	s : 0	5, ci.-s, li.-cls, sc : 10, ci.-s, li.-cls, sc	7, ci.-s, li.-cls, sc, l
8	0	0	7, h.-r, ci.-s, sc	5, ci.-s, sc : 0
9	w	w	8, ci.-s, sc	8, ci.-s, sc
10	v	v	7, ci.-s, li.-cls, sc	7, ci.-s, li.-cls, sc
11	w	w	0	0 : 10, ci.-s, sc, l, h.-sh
12	0	0	0	0
13	0	0	7, cu, ci.-s, sc	5, cu, ci.-s, sc : 0, shs
14	0	0 : w	10, cu, ci.-s, sc	5, sh, cu, ci.-s, sc
15	0	0	10, ci.-s, sc	10, ci.-s, sc : 0
16	0	0	10, ci.-s, sc	10, ci.-s, sc, r : 0
17	0	s, N : s, P	7, cu, cu.-s, ci.-s, sc	7, sh, cu, cu.-s, ci.-s, sc
18	s	s	7, cu, ci.-s, sc	7, cu, ci.-s, sc : 0, l
19	0	0 : m	5, ci.-s, li.-cls, sc	0
20	0	0	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, l
21	0	s : 0	10, ci.-s, sc	10, ci.-s, sc
22	0	0 : m	10, ci.-s, sc	10, ci.-s, sc
23	s	s	10, ci.-s, sc	10, ci.-s, sc
24	0	v : 0	5, cu, ci, sc	5, cu, ci, sc : 10, cu, ci, sc, sl.-r
25	w	w	7	7

MONTH and DAY, 1849.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A.M. next morning.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same day on an Average of 7 years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Osler's. General Direction. P.M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Aug. 26	..	29·927	80·0	56·1	66·7	56·6	..	49·0	65·2	62·7	10·1	12·3	7·2	+ 6·4	NW	WSW	0·1	0·0	0·0	125	0·00
27	Apogee	29·841	68·8	57·4	60·2	50·0	..	48·0	65·6	62·4	10·2	17·6	10·8	— 0·3	W & NNW	N	0·2	0·0	0·0	95	0·00
28	Greatest Declination S.	29·830	75·0	53·9	63·3	51·4	80·0	53·0	65·3	61·9	11·9	17·4	3·2	+ 2·7	NW	WSW	0·1	0·0	0·0	95	0·00
29	..	29·767	73·2	59·1	64·6	58·8	..	52·5	65·4	62·9	5·8	9·5	2·9	+ 4·0	WSW	NNW	0·0	0·0	0·0	20	0·00
30	..	29·702	75·0	60·2	66·2	60·0	78·0	56·8	65·6	63·4	6·2	13·1	3·0	+ 5·7	ESE	S by W	0·0	0·0	0·0	55	0·00
31	..	29·735	74·2	61·1	64·9	58·3	82·8	44·0	65·8	63·5	6·6	13·5	4·0	+ 4·7	SW	NE; E	0·0	0·0	0·0	70	0·00
Sep. 1	..	29·602	70·0	56·2	62·3	60·6	73·5	53·0	65·3	63·1	1·7	4·8	0·9	+ 2·6	E	NE	1·4	0·0	0·1	90	0·52
2	Full	29·608	73·8	60·9	66·8	56·6	77·0	51·0	66·0	63·4	10·2	11·9	6·4	+ 7·5	S	S; E	0·0	0·0	0·0	80	0·20
3	..	29·798	73·8	57·7	65·3	57·6	80·7	55·5	66·0	63·7	7·7	10·5	4·5	+ 6·5	SSE	E	0·0	0·0	0·0	20	0·00
4	In Equator	29·918	77·0	58·8	66·0	61·0	84·0	52·0	66·3	63·7	5·0	9·8	1·0	+ 7·5	N	ENE	0·0	0·0	0·0	55	0·42
5	..	29·948	77·8	56·5	65·9	58·1	93·8	44·0	66·3	63·9	7·8	15·5	2·3	+ 7·4	N	NE	0·0	0·0	0·0	75	0·01
6	..	29·941	79·0	53·3	65·7	55·3	96·0	43·0	66·2	63·7	10·4	16·8	3·0	+ 7·2	N	NE	0·0	0·0	0·0	115	0·00
7	..	29·989	72·7	51·2	59·9	48·4	90·7	38·0	65·6	62·9	11·5	15·5	7·2	+ 1·2	NNE	NE	0·0	0·0	0·0	70	0·00
8	..	29·989	73·5	48·4	58·9	46·7	85·0	36·0	64·6	62·1	12·2	15·3	7·6	— 0·3	N	NE	0·0	0·0	0·0	70	0·00
9	Last Qr.	29·600	70·5	44·3	57·9	47·8	80·0	43·0	64·8	61·7	10·1	13·3	4·2	— 1·6	Calm	SW	0·0	0·0	0·0	30	0·00
10	..	29·253	70·7	53·0	60·7	53·9	77·0	44·0	63·8	61·4	6·8	11·2	2·9	+ 0·9	SW	S	1·0	0·0	0·0	40	0·00
11	Perigee Greatest Dec. N.	28·998	68·7	51·5	57·6	49·2	78·7	42·0	64·0	61·1	8·4	15·0	1·6	— 2·3	SSW	SW	0·0	0·0	0·0	60	0·05
12	..	28·914	58·5	47·2	50·7	47·5	67·5	43·8	63·3	60·1	3·2	7·2	2·9	— 9·2	SW	S	0·0	0·0	0·0	180	0·44
13	..	29·455	62·5	46·3	54·6	48·6	68·0	38·4	61·6	58·4	6·0	11·0	4·0	— 5·2	SW; W	NW	4·0	0·0	0·9	205	0·14
14	..	30·014	66·1	49·1	56·7	47·4	78·0	52·0	60·3	57·4	9·3	13·1	5·7	— 3·0	WSW	WSW	0·0	0·0	0·0	30	0·00
15	..	30·032	63·9	55·5	57·3	48·2	69·0	40·0	60·3	57·1	9·1	13·7	6·0	— 2·0	W	S	0·0	0·0	0·0	15	0·00
16	New	30·038	72·5	49·2	60·5	49·7	71·5	50·0	60·3	57·1	10·8	13·6	4·4	+ 1·8	S	Calm	0·0	0·0	0·0	15	0·00
17	In Equator	30·188	69·5	46·7	56·5	43·4	78·0	32·8	60·3	56·9	13·1	19·7	5·5	— 1·8	NNE	N	1·3	0·0	0·1	20	0·00
18	..	30·246	59·7	42·7	51·0	38·0	76·0	35·0	59·4	55·9	13·0	15·4	11·0	— 6·7	N	N	4·0	0·0	0·8	30	0·00
19	..	30·343	67·7	44·5	54·8	43·2	81·0	37·0	58·6	55·9	11·6	17·0	5·5	— 2·2	N	N by E	0·0	0·0	0·0	40	0·00
20	..	30·258	60·0	47·5	52·7	41·6	75·0	42·0	58·0	55·4	11·1	15·4	8·8	— 3·6	N by E	N	0·0	0·0	0·0	55	0·00
21	..	30·052	65·9	47·1	54·9	50·1	77·8	46·0	57·6	55·1	4·8	9·0	2·4	— 0·6	NE	NE	3·0	0·0	0·8	55	0·11
22	..	29·963	68·9	53·8	59·7	51·4	80·0	44·0	57·8	55·4	8·3	12·8	5·0	+ 4·9	ENE	NE	3·5	0·0	0·9	120	0·00
23	..	29·780	59·0	50·8	55·3	52·1	..	47·0	57·3	55·4	3·2	5·4	1·0	+ 1·0	NE	NE	0·0	0·0	0·0	15	0·10
24	Apogee First Quarter Greatest Declination S.	29·727	70·5	51·4	58·2	54·8	77·0	42·0	57·8	55·7	3·4	8·5	1·4	+ 4·5	NE	Calm	0·0	0·0	0·0	5	0·01
25	..	29·723	72·7	46·9	57·6	48·9	80·0	36·0	57·8	53·9	8·7	17·7	1·9	+ 4·4	Calm	E	0·0	0·0	0·0	35	0·00
26	..	29·701	68·2	45·3	56·1	53·8	..	50·5	57·6	55·4	2·3	2·9	1·1	+ 3·3	E	ENE	2·0	0·0	0·4	75	0·01
27	..	29·625	69·9	56·0	62·2	54·1	85·7	50·0	58·2	55·9	8·1	12·8	6·1	+ 9·9	ENE	ENE	4·7	0·0	0·9	105	0·22
28	..	29·654	69·9	53·5	59·5	52·4	79·8	49·0	59·2	56·4	7·1	10·7	3·2	+ 7·2	W	SSW	0·0	0·0	0·0	65	0·15
29	..	29·499	66·7	55·9	59·8	56·2	77·0	54·5	59·3	56·9	3·6	7·4	0·9	+ 7·3	S	SSW	0·0	0·0	0·0	55	0·20
30	..	29·070	61·2	56·5	57·7	52·8	..	50·0	59·3	56·9	4·9	7·4	0·9	+ 4·6	S; SW	SW	3·0	0·0	0·5	100	0·58
Oct. 1	..	29·374	58·7	49·5	52·6	50·8	70·0	48·0	58·8	56·4	1·8	4·8	1·3	— 1·0	NE	NNE	0·0	0·0	0·0	25	0·08
2	In Equator Full	29·582	55·7	42·3	48·3	43·7	66·0	36·0	58·8	55·7	4·6	8·2	1·3	— 5·4	NNE	NNE	0·0	0·0	0·0	5	0·02
3	..	29·254	61·7	41·8	52·5	50·3	69·0	48·8	57·8	54·9	2·2	5·3	1·5	— 1·1	SE	SW	14·8	0·0	2·5	145	0·55
4	..	29·097	60·7	46·5	51·0	48·7	62·0	29·2	56·8	53·9	2·3	4·8	1·2	— 2·3	WSW	NW	0·0	0·0	0·0	90	0·75
5	..	29·618	57·2	45·8	50·0	39·1	..	33·8	55·8	52·7	10·9	16·0	6·2	— 2·5	WSW	SW; SSW	0·0	0·0	0·0	85	0·02
6	Perigee	29·621	54·7	41·4	46·6	40·8	..	45·0	55·0	52·1	5·8	10·2	2·5	— 5·1	SW; W	NE	0·0	0·0	0·0	40	0·20
7	..	29·134	64·5	45·3	55·2	52·7	..	48·8	54·8	51·7	2·5	..	1·2	+ 3·8	SE; SW	SSW; NNW	0·0	0·0	0·0	110	0·55
8	Greatest Declination N.	29·594	52·9	41·0	47·1	40·5	..	25·5	54·0	50·7	6·6	11·0	4·8	— 4·3	NW; ENE	N	4·0	0·0	0·4	..	0·01
9	Last Qr.	29·868	51·9	32·7	42·4	33·3	..	36·0	52·6	49·9	9·1	14·5	4·3	— 9·0	N; NW	W	0·0	0·0	0·0	..	0·00
10	..	29·691	57·4	31·5	44·4	37·3	..	31·7	51·8	48·7	7·1	12·2	2·5	— 7·0	NW	NNE	0·0	0·0	0·0	..	0·00
11	..	29·387	56·2	36·7	47·4	38·6	..	36·0	51·3	47·9	8·8	13·2	5·8	— 4·0	NE	NE	4·0	0·0	0·5	110	0·00
12	..	29·455	55·3	40·5	46·6	36·0	..	33·0	50·8	46·4	10·6	14·7	6·7	— 4·7	NNE	NE	3·7	0·0	0·4	180	0·03
13	..	29·654	48·9	40·3	43·6	38·3	..	33·0	49·8	45·4	5·3	5·7	3·1	— 7·4	NE	NE	4·5	0·0	0·9	120	0·15
14	In Equator	29·914	48·6	37·5	42·8	34·9	..	31·0	48·8	44·4	7·9	9·2	4·3	— 7·9	NE	NNE	4·0	0·0	0·6	160	0·14
15	..	29·952	51·6	37·5	44·0	36·6	..	29·0	47·8	43·7	7·4	11·6	2·3	— 6·3	NNE	NE	3·7	0·0	0·4	60	0·00
16	New	29·908	55·7	36·3	45·9	39·9	..	38·5	48·8	44·9	6·0	9·8	2·8	— 3·6	NE	E	0·0	0·0	0·0	75	0·00
17	..	29·815	66·0	44·0	56·1	49·4	81·0	50·0	47·8	44·1	6·7	11·1	3·8	+ 7·3	E	S	1·0	0·0	0·0	170	0·05
18	..	30·043	68·9	53·5	59·7	51·8	84·0	40·0	48·8	45·4	7·9	11·4	5·9	+11·5	S by W	SW; S	0·0	0·0	0·0	90	0·00
19	..	29·839	69·7	48·7	59·5	51·0	82·8	44·8	49·8	46·7	8·5	13·6	3·6	+11·9	SSE	SE	0·0	0·0	0·0	40	0·00
20	..	29·783	67·3	53·5	59·1	52·6	87·0	45·0	50·8	47·9	6·5	10·4	2·0	+12·1	S; SW	WSW	0·0	0·0	0·0	45	0·05
21	..	29·741	58·7	47·2	50·9	47·7	..	35·0	50·8	47·9	3·2	3·6	2·6	+ 4·4	SW	SW	0·0	0·0	0·0	90	0·17
22	Greatest Dec. S. Apogee	29·952	60·0	42·2	52·4	48·8	..	43·0	52·0	48·7	3·6	7·6	2·1	+ 6·4	SW	SSW	0·0	0·0	0·0	135	0·02

MONTH and DAY, 1849.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Aug. 26	0	0 : m	3, li.-cls	10, li.-cls
27	0	0	8, ci.-s, li.-cls, sc	3, ci.-s, li.-cls, sc : 10, ci.-s, li.-cls, sc
28	0	w	7, ci.-s, li.-cls, sc	7, ci.-s, li.-cls, sc : 10, ci.-s, li.-cls, sc
29	0	0	10, ci.-s, sc, h	10, ci.-s, sc, h
30	0	s	10, ci.-s, sc, h	10, ci.-s, sc, h
31	v	v	10, ci.-s, sc, h	0
Sep. 1	0	0 : w	10, r	10 : 10, t.-s, r
2	0	0	5, cu, ci.-s	5, cu, ci.-s : 10, cu, ci.-s, l
3	0	0 : v : 0	0	10, ci.-s, sc : 10, ci.-s, sc, l, r
4	v	v	10, ci.-s	5, ci.-s
5	v	v	10, ci.-s : 0	0
6	0	0	0	0
7	0	0	10, ci.-s : 5, ci.-s	0
8	0	s : s : 0	10, ci.-s	10, ci.-s
9	v	v	5, cu.-s, ci.-s	5, cu.-s, ci.-s
10	0	m : 0	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc, l, r
11	w	w	5, cu, cu.-s, ci.-s	5, cu, cu.-s, ci.-s, l, t
12	v	v	10, ci.-s, sc, h, fr.-shs	10, ci.-s, sc, h, fr.-shs, l
13	0 : w	0	10, ci.-s, sc, sqs, w, r	5, ci.-s sc
14	0	0 : v : v	10, cu.-s, ci.-s	10, cu.-s, ci.-s
15	0	s : s : 0	10, ci.-s, sc	10, ci.-s, sc
16	0	0	10, ci.-s, sc, h	10, ci.-s, sc, h
17	v	v	3, cu, cu.-s, ci.-s	3, cu, cu.-s, ci.-s : 0
18	0	0	0 : 3, li.-cls	3, li.-cls : 10
19	v	v	10, cu.-s, ci.-s, h	3, cu.-s, ci.-s, h
20	0 : 0 : s	0	10, ci.-s, sc	10, ci.-s, sc : 0
21	0	0	10, cu.-s, ci.-s, shs	10, cu.-s, ci.-s, shs : 0
22	v	v	7, cu, cu.-s, ci.-s	0 : 10, cu, cu.-s, ci.-s
23	0	0	10, ci.-s, sc, sl.-r	10, ci.-s, sc, sl.-r
24	0	0 : s	10, cu, cu.-s, sc	10, sh, cu, cu.-s, sc : 5, cu, cu.-s, sc
25	v	v	0	0 : 0, h
26	0	0 : s	7, ci.-s, li.-cls	0
27	v	v	10, cu, cu.-s, ci-s, sc	10, cu, cu.-s, ci.-s, sc : 10, cu, cu.-s, ci.-s, sc, r
28	0	w : 0 : 0	0	10, ci.-s, sc
29	0	0	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, r
30	0	0	10, ci.-s, sc, h.-sqs	10, ci.-s, sc, h.-sqs
Oct. 1	0	s : s : 0	10, ci.-s, sc, m.-r	10, ci.-s, sc, m.-r
2	s	s	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc, th.-f
3	0 : 0 : s	0	10, ci.-s, sc, h.-r	10, ci.-s, sc, h.-r, st.-w
4	w	s : w	10, ci.-s, sc, h.-r : 10, ci.-s, sc	10, ci.-s, sc
5	0 : w	0	0	0 : 5, ci.-s, li.-cls : 10, ci.-s, li.-cls
6	s	s	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, r
7	0	0	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, h.-r
8	0 : m	0	10, ci.-s, sc	7, ci.-s, sc : 0
9	0	s : s : 0	0	5, cu.-s, ci.-s, h : 0
10	s	s	0	7, cu, cu.-s, ci.-s
11	w	w	10, ci.-s sc	10, ci.-s, sc
12	m	m	10, cu.-s, ci.-s, sc	7, cu.-s, ci.-s, sc
13	0	s : 0	10, ci.-s, sc, h.-r	10, ci.-s, sc, h.-r
14	0	0 : 0 : m	10, ci.-s, sc	0 : 5, ci.-s, sc
15	0 : 0 : s	0 : 0 : w	10, ci.-s	0
16	v	v	5, ci.-s, li.-cls	5, ci.-s, li.-cls : 10, ci.-s, li.-cls
17	0	0	5, ci.-s, li.-cls, r	5, ci.-s, li.-cls
18	0	0	0	0
19	0	0	0	5, ci.-s, li.-cls : 0
20	0	0 : v : 0	5, cls	5, ci.-s : 10, ci.-s, r
21	0	0	10, ci.-s, r	10, ci.-s : 0
22	0	0	10, ci.-s, li.-cls, sc : 7, ci.-s, li.-cls, sc	5, ci.-s, li.-cls, sc : 5, ci.-s, li.-cls, sc, fr.-shs, a

MONTH and DAY, 1849.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A. M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A. M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Greatest.	Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 7 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	P. M.	Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Oct. 23	..	29·987	63·7	55·5	58·1	52·2	..	46·0	52·3	49·4	5·9	9·0	3·6	+12·6	SW	SW	0·0	0·0	0·0	165	0·00
24	First Qr.	30·000	65·7	51·5	57·4	53·5	..	46·0	53·3	50·7	3·9	9·9	3·0	+ 2·3	SW	SW	0·0	0·0	0·0	125	0·01
25	..	29·830	62·2	52·8	56·9	52·9	..	48·0	53·4	50·7	4·0	5·6	3·6	+12·2	SSW	SW	1·8	0·0	0·1	140	0·05
26	..	29·694	59·7	50·5	54·0	48·0	..	40·8	53·8	50·9	6·0	10·6	3·8	+ 9·3	SW	WSW; SW	0·0	0·0	0·0	115	0·00
27	..	29·853	61·9	51·0	55·6	54·3	..	46·0	54·2	51·1	1·3	4·3	1·2	+10·7	SW	SSW	0·0	0·0	0·0	40	0·04
28	..	30·290	64·3	46·5	54·2	51·0	..	38·0	54·3	51·1	3·2	3·4	0·7	+ 8·8	N	WSW	0·0	0·0	0·0	70	0·00
29	In Equator	30·499	59·1	44·3	50·6	44·7	..	33·0	54·2	51·1	5·9	11·6	0·7	+ 4·5	SW	SE	0·0	0·0	0·0	85	0·00
30	..	30·067	61·1	40·5	51·1	38·7	..	41·0	53·6	50·7	12·4	16·4	8·0	+ 4·5	SE	S	0·0	0·0	0·0	115	0·00
31	Full	29·557	54·4	40·0	46·7	39·9	..	32·0	53·0	49·9	6·8	10·7	4·6	0·0	S; NW	WNW; S	0·0	0·0	0·0	75	0·00
Nov. 1	..	29·413	53·9	41·5	48·7	43·4	..	31·8	52·3	49·4	5·3	8·0	2·1	+ 2·1	SE; E	SE; E	0·0	0·0	0·0	50	0·00
2	Perigee	29·501	59·3	40·5	50·0	45·0	73·0	33·0	51·8	49·1	5·0	10·1	0·2	+ 3·8	ENE	NE	0·0	0·0	0·0	75	0·00
3	..	29·323	57·5	41·8	51·0	49·3	67·0	41·0	51·3	48·9	1·7	4·0	0·4	+ 5·0	NE	NE	0·0	0·0	0·0	30	0·00
4	Greatest Declination N.	29·027	55·2	47·5	50·9	48·0	..	36·0	51·2	48·4	2·9	4·8	1·2	+ 4·8	NE	S	0·0	0·0	0·0	85	0·07
5	..	29·085	53·5	41·5	46·8	37·6	62·0	31·7	50·3	47·7	9·2	11·8	6·5	+ 0·5	SSW	SW	4·0	0·0	0·7	195	0·00
6	..	29·533	50·4	38·3	43·7	34·5	59·0	28·8	49·3	46·1	9·2	15·8	4·8	− 2·6	SW	SSW	2·0	0·0	0·2	115	0·00
7	Last Qr.	29·915	56·5	35·3	47·3	44·0	60·0	39·0	48·8	45·7	3·3	4·9	1·8	+ 1·0	SW	WSW	3·0	0·0	0·8	305	0·06
8	..	30·191	58·2	54·5	56·5	51·0	59·8	48·0	49·2	46·4	5·5	6·3	4·6	+10·3	WSW	SW	0·0	0·0	0·0	55	0·00
9	..	30·217	58·7	48·5	53·6	47·8	65·0	42·0	49·3	46·7	5·8	7·0	4·0	+ 7·6	SSW	SSW	0·0	0·0	0·0	125	0·00
10	..	30·155	59·5	47·0	52·6	47·2	66·0	32·0	49·3	46·9	5·4	9·7	1·5	+ 6·9	WSW	S	0·0	0·0	0·0	90	0·00
11	In Equator	30·164	61·7	43·2	50·5	48·2	..	33·0	49·3	46·7	2·3	3·2	0·5	+ 5·2	S	SW	0·0	0·0	0·0	85	0·00
12	..	30·004	52·2	40·5	45·9	44·7	60·0	40·0	49·2	46·7	1·2	3·6	0·5	+ 1·1	SW	SSW	0·0	0·0	0·0	85	0·00
13	..	29·753	55·1	46·1	50·9	48·8	63·4	38·5	49·3	46·7	2·1	4·2	1·3	+ 6·6	S	SSW; WSW	2·0	0·0	0·3	150	0·10
14	New	29·501	54·2	38·8	45·7	40·6	60·0	30·0	48·8	45·9	5·1	10·4	2·9	+ 1·7	SW	SW	5·8	0·0	0·2	130	0·30
15	..	29·563	48·5	36·5	42·1	37·1	..	30·4	48·2	45·1	5·0	6·7	3·1	− 1·7	WSW	NW	3·5	0·0	0·5	145	0·15
16	..	29·907	47·4	36·9	42·0	34·8	56·0	28·0	47·3	43·9	7·2	10·8	5·0	− 1·7	NW	NNW	0·0	0·0	0·0	145	0·00
17	..	30·149	46·7	32·5	39·3	33·0	54·0	27·5	46·3	42·9	6·3	9·7	3·6	− 4·3	N	NNW	0·0	0·0	0·0	95	0·00
18	Greatest Dec. S. Apogee	29·992	50·5	38·5	47·0	43·3	..	45·0	46·0	42·4	3·7	5·1	2·3	+ 3·5	SW	WSW	0·0	0·0	0·0	145	0·03
19	..	29·923	51·5	44·0	47·6	43·2	53·0	39·0	45·8	42·9	4·4	6·5	2·3	+ 4·1	WSW; N	N	0·0	0·0	0·0	10	0·00
20	..	30·007	44·2	40·5	41·9	39·3	47·0	41·8	45·8	42·7	2·6	4·3	2·8	− 1·5	N; NE	ENE	0·0	0·0	0·0	40	0·00
21	..	29·945	47·0	38·5	42·8	38·2	50·0	30·0	45·6	42·7	4·6	6·2	3·2	− 0·6	ENE	E	0·0	0·0	0·0	70	0·00
22	..	29·728	42·5	34·2	38·3	33·3	47·7	32·0	44·8	42·4	5·0	6·7	4·4	− 5·1	E	E; SE	0·0	0·0	0·0	75	0·00
23	First Qr.	29·443	48·7	38·5	44·5	40·6	50·5	32·0	44·8	42·4	3·9	7·4	1·1	+ 1·0	SE	S	2·0	0·0	0·1	125	0·17
24	..	29·232	51·7	32·0	40·8	39·1	52·0	25·0	44·8	42·1	1·7	5·1	0·0	− 2·7	S	NNE	0·0	0·0	0·0	35	0·17
25	In Equator	29·374	39·7	29·9	34·2	33·4	..	23·0	44·3	41·7	0·8	0·8	0·0	− 9·3	NNW	NW	0·0	0·0	0·0	20	0·01
26	..	29·774	36·7	27·0	32·3	27·3	41·0	15·0	43·8	40·1	5·0	10·1	0·8	−11·3	NW; N	NE	0·8	0·0	0·0	60	0·00
27	..	30·018	35·2	24·5	29·2	25·7	40·0	18·0	42·4	38·7	3·5	4·8	2·5	−14·4	NE; N	N; NNE	0·0	0·0	0·0	15	0·00
28	..	29·884	29·7	23·5	26·1	25·4	36·0	19·0	41·6	37·4	0·7	2·6	1·8	−17·5	NNE	NNE	0·0	0·0	0·0	25	0·00
29	..	29·867	40·5	25·3	35·2	26·1	46·0	30·0	40·6	36·9	9·1	11·0	8·3	− 8·4	SSE; S	SSE	0·0	0·0	0·0	155	0·00
30	Full	29·717	48·5	35·3	44·3	43·6	50·5	28·0	40·6	36·4	0·7	2·2	0·9	+ 0·8	SSE	SW; N	2·0	0·0	0·4	65	0·57
Dec. 1	Perigee	29·986	44·7	34·7	40·0	37·1	49·0	33·0	40·3	36·9	2·7	5·1	2·0	− 3·3	W	SW; S	0·0	0·0	0·0	115	0·02
2	Greatest Declination N.	29·488	49·8	45·3	47·9	45·9	..	44·0	40·8	37·4	2·0	..	..	+ 4·9	S	S; SE	0·0	0·0	0·0	120	0·40
3	..	29·360	44·9	37·6	39·6	37·9	..	28·0	41·0	38·1	1·7	3·0	1·7	− 2·7	SE; ENE	NE	0·0	0·0	0·0	125	0·41
4	..	29·425	36·8	29·2	33·0	30·2	..	17·5	41·0	37·7	2·8	5·3	1·6	− 8·2	NNE	N; WSW	0·0	0·0	0·0	10	0·00
5	..	29·223	48·1	24·1	41·2	38·8	..	32·5	40·6	37·9	2·4	3·1	2·3	+ 0·7	WSW; ESE	SSE	0·0	0·0	0·0	125	0·17
6	Last Qr.	29·635	52·2	38·3	46·0	41·6	..	32·0	40·8	38·1	4·4	7·4	1·7	+ 6·3	E; SE	SSE	2·0	0·0	0·4	105	0·04
7	..	29·414	45·8	39·9	43·8	39·4	..	35·0	40·8	38·4	4·4	7·0	2·4	+ 4·4	SE	ESE	3·5	0·0	1·2	140	0·00
8	In Equator	29·391	48·5	39·0	43·9	39·8	..	26·0	41·0	38·4	4·1	7·5	1·4	+ 4·7	ENE; WSW	SW; SSW	0·0	0·0	0·0	70	0·30
9	..	29·819	44·7	32·9	37·2	36·7	..	29·0	40·8	37·9	0·5	0·3	0·0	− 1·8	SSW; SE	SE; ESE	0·0	0·0	0·0	5	0·00
10	..	30·050	39·4	31·5	37·0	36·5	..	35·0	40·4	37·7	0·5	1·0	0·8	− 2·0	ESE; ENE	N	0·0	0·0	0·0	40	0·12
11	..	29·994	40·9	32·6	36·7	33·4	..	32·0	40·2	37·1	3·3	6·0	2·0	− 2·4	N	NE	0·0	0·0	0·0	40	0·01
12	..	29·842	39·7	31·0	34·0	30·1	..	30·5	39·6	36·4	3·9	4·9	4·4	− 5·4	ENE	E	0·0	0·0	0·0	70	0·00
13	..	29·768	35·7	29·2	31·9	28·8	..	31·0	38·8	35·9	3·1	4·8	3·3	− 7·9	SE	SE	0·0	0·0	0·0	60	0·00
14	New Moon	29·746	54·7	38·7	49·4	48·1	..	40·0	39·6	36·1	1·3	2·3	0·9	+ 9·2	SE; SSW	SSE; SW	3·0	0·0	0·7	145	0·18
15	Greatest Declination S.	29·747	56·3	50·0	53·8	50·0	..	41·0	42·0	37·7	3·8	8·6	0·4	+13·4	SW	SSW	2·6	0·0	0·3	230	0·08
16	Apogee	29·738	53·2	47·5	50·9	48·0	..	42·0	42·8	38·7	2·9	4·2	1·7	+10·3	SW	SSW	2·0	0·0	0·1	265	0·00
17	..	29·599	51·7	45·2	48·2	41·6	54·5	36·0	44·4	39·9	6·6	9·2	3·5	+ 7·6	SW	WSW	14·0	0·0	2·7	230	0·20
18	..	29·478	53·2	43·1	49·9	47·0	53·0	38·0	44·8	40·9	2·9	5·7	1·2	+ 9·5	SSW	SW	6·0	0·0	2·0	305	0·19
19	..	29·952	48·5	38·8	43·0	34·6	46·7	28·0	44·8	41·1	8·4	9·7	6·3	+ 3·0	NW	N	3·5	0·0	1·1	135	0·00
20	..	30·124	40·7	34·0	37·7	32·4	44·0	25·0	43·8	40·7	5·3	7·0	3·3	− 1·8	NNW	NNW	2·8	0·0	0·6	90	0·05

MONTH and DAY, 1849.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Oct. 23	0	v : 0	8, ci.-s	8, ci.-s
24	0	0	10, ci.-s, li.-cls, sc	5, ci.-s, li.-cls, sc
25	0	s, N : 0	10, ci.-s	10, ci.-s : 10, ci.-s, r
26	0	0	7, cu.-s, ci.-s	0 : 10, cu.-s, ci.-s
27	0	0	10, ci.-s, sc, r	10, ci.-s, sc
28	0	0	10, ci.-s, sc, h	10, ci.-s, sc, h : 0
29	0	0	0 : 5, cu.-s, li.-cls	5, cu.-s, li.-cls : 0
30	0	0	0	0 : 5, cls
31	0	0	10, ci.-s : 0	0 : 10, ci.-s, lu, ha
Nov. 1	0	0	10, ci.-s	10, ci.-s : 5, ci.-s
2	w : 0 : 0	0	3	3 : 0
3	0	0	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, th, f
4	0	0	10, ci.-s, sc, r, f	10, ci.-s, sc, r, f
5	s	s	0	5, cu, ci, li.-cls : 0
6	0	s : 0	0	0
7	0	0	10, ci.-s : 10, ci.-s, r, hl	10, ci.-s
8	0	0	10, ci.-s	10, ci.-s
9	0	0	10, ci.-s, sc	10, ci.-s, sc
10	0	0	8, ci.-s, li.-cls	8, ci.-s, li.-cls : 0
11	0	0	0	0 : 5, ci.-s, h
12	0	0	10, th.-f : 7	7 : 10
13	0	0	5, ci.-s, sc : 10, ci.-s, sc	10, ci.-s, sc, fr.-shs : 5, ci.-s, sc
14	0	0	7, cu, ci.-s, sc	7, cu, ci.-s, sc : 0
15	0	0	0 : 8, cu.-s, ci.-s, sc	8, cu.-s, ci.-s, sc, fr.-shs
16	0	0	5, cu.-s, ci.-s, h	5, cu.-s, ci.-s, h : 0
17	0	0	0	0
18	0	0	10, ci.-s, sc, r	10, ci.-s, sc, r
19	0	0	10, ci.-s, sc	10, ci.-s, sc
20	0	0	10, ci.-s, sc	10, ci.-s, sc
21	0	0	10, ci.-s, sc	10, ci.-s, sc
22	0	0	10, ci.-s, sc	10, ci.-s, sc
23	0	0	10, ci.-s, sc	10, ci.-s, sc, r
24	0	w	10, ci.-s, sc	5, cu, ci.-s, sc, th.-f : 0
25	0	0 : s	10, ci.-s, th, f	10, ci.-s, th.-f : 0
26	0	0 : s	10, ci.-s, sc	0 : 5, ci.-s, sc
27	v	v	10, ci.-s : 5, ci.-s	0 : 0, th.-f
28	s	s : w	5, th, f : 0	0 : 8, cu.-s
29	0	0	10, ci.-s	5, ci.-s : 8, ci.-s, lu. ha
30	0	0	10, ci.-s, sc, r	10, ci.-s, sc, r
Dec. 1	s	0	0	10
2	0	0	10, ci.-s, sc, r	10, ci.-s, sc, r
3	0	0	10, ci.-s, sc, r	10, ci.-s, sc, r
4	0	0	2, li.-cls, ci.-s	5, li.-cls, ci.-s : 7, li.-cls, ci.-s : 5, li.-cls, ci.-s
5	s, N	0	10, r, cls, ci.-s, sc	10, cls, ci.-s, sc, fr.-shs
6	0	m : 0	0	0
7	0	0	10	10
8	0	0 : s	10, h.-r : 0	0
9	0 : s	0	0	0, h.-f : 10, ci.-s, th.-f
10	m	m	10, ci.-s, sc, f	10, ci.-s, sc, f, r : 10, ci.-s, sc, f
11	0	0 : m	10, ci.-s, sc, r	10, ci.-s, sc, r
12	m	m	10, ci.-s, sc	10, ci.-s, sc
13	m	m	10, ci.-s, sc	10, ci.-s, sc
14	0	0	10, r, ci.-s, sc	10, r, ci.-s, sc
15	0	0	10, ci.-s, sc, r : 10, ci.-s, sc	10, ci.-s, sc
16	0	0	10, ci.-s, sc	10, ci.-s, sc : 10, ci.-s, sc, r
17	0	0	0 : 10, ci.-s, sc	10, ci.-s, sc : 0
18	0	0	10, ci.-s, sc, r	10, ci.-s, sc, r
19	0	0	7, ci.-s, li.-cls	8, ci.-s, li.-cls : 0
20	0	0	0	8, ci.-s, sc

MONTH and DAY, 1849.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A. M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A. M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A. M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same day on an Average of 7 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	Osler's. General Direction. P. M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Least.	Mean of 24 Obs.	Whewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Dec. 21	..	30·341	37·3	30·3	32·9	30·4	37·5	25·4	42·6	38·7	2·5	5·3	2·3	— 6·1	N	NNE	2·0	0·0	0·1	125	0·01
22	First Qr.	30·434	35·3	31·0	33·3	30·5	36·7	25·0	40·8	37·1	2·8	4·9	1·0	— 5·2	NNE	NNE	3·0	0·0	0·5	100	0·00
23	In Equator	30·440	36·3	29·0	32·6	29·0	..	17·8	39·3	34·9	3·6	5·3	2·7	— 5·8	NNE	N	4·0	0·0	0·5	50	0·00
24	..	30·304	35·3	26·3	32·0	28·9	37·9	26·8	38·3	33·9	3·1	5·9	1·8	— 6·3	N; SW	WSW	0·0	0·0	0·0	25	0·02
25	..	30·378	37·1	30·3	34·2	28·2	..	28·8	37·4	32·9	6·0	10·1	3·5	— 3·8	NE	N	0·0	0·0	0·0	25	0·00
26	..	29·922	41·3	34·0	38·6	36·6	44·0	32·0	37·3	32·9	2·0	3·4	0·7	+ 0·7	SW	W	0·0	0·0	0·0	155	0·00
27	..	29·327	42·1	33·3	37·7	28·7	45·0	22·8	36·6	32·7	9·0	12·3	6·0	— 0·2	SW; NW	NNW	4·5	0·0	1·4	110	0·00
28	..	29·308	33·0	23·1	25·2	18·9	39·0	10·8	35·0	30·9	6·3	15·4	3·4	—13·0	NW	NNW	5·0	0·0	1·4	170	0·00
29	Full Perigee Greatest Declination N.	29·460	36·5	18·8	31·1	23·9	39·0	31·0	34·3	29·9	7·2	8·5	4·5	— 7·4	SW	NW	3·0	0:0	0·9	190	0·00
30	..	29·999	37·7	30·0	33·5	27·3	..	24·0	33·3	29·9	6·2	7·0	2·8	— 5·2	N	N	0·0	0·0	0·0	115	0·00
31	..	29·956	38·0	29·3	34·3	28·1	42·0	19·3	33·8	29·9	6·2	8·5	2·8	— 4·7	N by W	NNW; W	0·0	0·0	0·0	95	0·00

MONTH and DAY, 1849.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A. M.	P. M.	A. M.	P. M.
Dec. 21	0	0	10, ci.-s, sc, shs, sn, hl	10, ci.-s, sc
22	0	0	8, ci.-s, sc	8, ci.-s, sc, fr.-shs, sn
23	0	0	0	0 : 10, ci.-s
24	s	s	10, ci.-s, sc	10, ci.-s, sc, sl, sn : 10, ci.-s, sc, m.-r
25	s	s	8, ci.-s, sc : 0	0 : 10, ci.-s, sc
26	0	0	10, ci.-s, sc, f, r	10, ci.-s, sc
27	0	0	5, ci.-s, h : 0	0
28	0	0	10, h.-sn : 0	0 : 10, cls
29	w	0	10, ci.-s, sc	10, ci.-s, sc : 3, cls
30	0	0	0	0
31	0	0	10, ci.-s, sc : 0	10, ci.-s, sc

MAXIMA AND MINIMA READINGS OF THE BAROMETER.

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

Maxima.			Minima.			Maxima.			Minima.		
	Approximate Mean Solar Time, 1849.	Reading.		Approximate Mean Solar Time, 1849.	Reading.		Approximate Mean Solar Time, 1849.	Reading.		Approximate Mean Solar Time, 1849.	Reading.
	d h m	in.		d h m	in.		d h m	in.		d h m	in.
January	1. 9. 0	30·095	January	3. 3. 0	29·582	June	21. 21. 0	30·057	July	3. 3. 0	29·550
	7. 0. 0	29·971		10. 0. 0	28·829	July	10. 21. 0	30·252		19. 21. 0	29·401
	11. 21. 0	30·060		14. 0. 0	29·314		21. 22. 0	29·938		25. 3. 0	29·314
	23. 9. 0	30·328		28. 9. 0	29·259	August	1. 21. 0	30·020	August	9. 3. 0	29·550
February	4. 21. 0	30·402	February	8. 3. 0	29·988		19. 21. 0	30·222	September	1. 9. 0	29·496
	11. 9. 0	30·715		20. 3. 0	29·465	September	7. 9. 0	30·048		12. 0. 0	28·881
	21. 0. 0	29·905		25. 9. 0	29·242		19. 0. 0	30·364		30. 8. 25	29·075
	27. 0. 0	29·945		28. 9. 0	29·208	October	2. 9. 0	29·641	October	3. 21. 0	28·929
March	5. 21. 0	30·476	March	8. 3. 0	29·679		8. 21. 0	29·914		11. 3. 0	29·375
	10. 22. 0	30·336		12. 21. 0	29·924		18. 9. 0	30·058		20. 23. 0	29·682
	16. 0. 0	30·219		27. 21. 0	29·144		28. 21. 0	30·541	November	4. 9. 0	28·975
April	11. 21. 0	29·710	April	13. 3. 0	29·091	November	8. 21. 0	30·255		14. 3. 0	29·467
	29. 21. 0	30·184	May	5. 3. 0	29·615		17. 9. 0	30·185		24. 3. 0	29·214
May	12. 0. 0	30·094		17. 0. 0	29·184		27. 9. 0	30·026	December	2. 10. 20	29·299
	28. 9. 0	30·085		31. 3. 0	29·829	December	10. 9. 0	30·068		18. 9. 0	29·328
June	6. 21. 0	30·036	June	9. 23. 0	29·529		24. 22. 0	30·475		27. 21. 0	29·234
	13. 21. 0	30·054		16. 3. 0	29·630		31. 0. 0	30·219			

READINGS OF THE 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, except Sundays.

Day of the Month, 1849.	Right 50 January.	50 February.	40 March.	40 April.	40 May.	40 June.	40 July.	40 August.	50 September.	50 October.	50 November.	50 December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	51·79	51·18	50·45	S	49·33	48·97	S	49·77	50·62	51·35	51·95	52·08
2	51·74	51·19	50·45	49·81	49·32	48·97	49·15	49·82	S	51·36	51·96	
3	51·71	51·17	50·44	49·78	49·32	S	49·17	...	50·67	51·40	51·97	52·08
4	51·76	S	S	49·78	49·30	48·96	49·19	49·86	50·72	51·43	S	52·08
5	51·71	51·13	50·40	49·75	49·29	48·98	49·20	S	50·75	51·47	51·98	52·12
6	51·72	51·08	50·38	49·75	S	48·96	49·23	49·93	50·76	51·45	51·98	52·13

51·76

(I.)—Reading of a Thermometer whose bulb is sunk to the depth of 24 French feet—*continued.*

Day of the Month, 1849.	Reject 50 January.	50 February.	40 March.	40 April.	40 May.	40 June.	40 July.	40 August.	50 September.	50 October.	50 November.	50 December.
d	°	°	°	°	°	°	°	°	°	°	°	°
7	S 10·43	51·05	50·38	49·73	49·23	48·96	49·26	49·96	50·78	S 8·46	51·98	52·13
8	51·69	51·07	50·30	S 44·60	49·23	48·96	S 55·20	50·03	50·80	51·53	52·04	52·13
9	51·66	51·04	50·27	49·72	49·20	48·95	49·28	50·03	S 4·48	51·53	52·05	S 12·67
10	51·66	51·00	50·25	49·68	49·18	S 53·47	49·30	50·05	50·86	51·54	52·05	52·09
11	51·62	S 6·37	S 61·98	49·67	49·18	48·95	49·33	50·07	50·87	51·58	S 8·03	52·09
12	51·59	50·90	50·25	49·64	49·18	48·95	49·35	S 56·07	50·80	51·60	52·05	52·07
13	51·64	50·87	50·24	49·63	S 53·20	48·97	49·37	50·10	50·92	51·62	52·06	52·06
14	S 9·86	50·88	50·18	49·62	49·16	48·97	49·38	50·17	50·95	S 9·40	52·09	52·11
15	51·58	50·87	50·18	S 53·06	49·15	48·98	S 58·01	50·16	50·97	51·65	...	52·13
16	51·55	50·82	50·15	49·55	49·14	48·98	49·43	50·19	S 5·37	51·68	52·05	S 12·55
17	51·58	50·80	50·14	49·52	49·12	S 53·80	49·44	50·23	51·04	51·76	52·05	52·07
18	51·52	S 5·14	S 61·14	49·52	49·13	49·02	49·45	50·23	51·04	51·76	S 10·30	52·06
19	51·53	50·76	50·07	49·47	49·10	49·00	49·45	S 61·08	51·08	51·78	52·08	52·04
20	51·50	50·74	50·05	49·47	S 52·80	49·06	49·47	50·30	51·08	51·80	52·05	52·00
21	S 9·76	50·73	50·04	49·45	49·10	49·03	49·50	50·33	51·13	S 16·43	52·08	51·98
22	51·44	50·72	50·00	S 54·05	49·06	49·04	S 56·72	50·36	51·15	51·80	52·06	51·98
23	51·44	50·66	50·03	49·44	49·08	49·07	49·49	50·38	S 6·52	51·84	52·08	S 12·13
24	51·42	50·64	49·96	49·42	49·08	S 52·22	49·48	50·41	51·22	51·86	52·07	51·94
25	51·38	S 4·15	S 60·15	49·40	49·07	49·07	49·59	50·44	51·23	51·87	S 12·42	Christ. Day.
26	51·35	50·59	49·96	49·38	49·05	49·08	49·63	S 62·22	...	51·88	52·06	51·94
27	51·34	50·56	49·92	49·37	S 54·44	49·10	49·64	50·53	51·28	51·90	52·07	51·93
28	S 8·37	50·54	49·88	49·35	49·03	49·10	49·69	50·54	51·31	S 11·45	52·04	51·86
29	51·25		49·88	S 53·36	48·98	49·12	S 57·52	50·58	51·33	51·83	52·06	51·88
30	51·23		49·85	49·35	48·98	49·03	49·73	50·58	S 6·37	51·84	52·10	S 1·90
31	51·21		49·86		48·97		49·75	50·60		51·93		51·86
	41·61	27·96	239·25	246·96	234·23	244·93	265·65	265·65	23·36	45·04	51·01	50·84
	51·54	50·84	49·57	49·15	49·01	50·22	50·97	51·67	52·04	52·03		

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

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting Sundays and a few other days). During that interval of time, the monthly mean of the readings at noon was found in twelve instances to be greater by 0°·01 than the monthly mean of all the observations; in one instance the excess was 0°·02, and in another it amounted to 0°·03. In all the remaining cases the means of the noon observations agreed precisely with the means of all the observations.

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

Day of the Month, 1849.	Reject 40 January.	40 February.	40 March.	40 April.	40 May.	40 June.	50 July.	50 August.	50 September.	50 October.	50 November.	50 December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	50·32	48·24	47·24	S 41·94	46·90	48·55	S 66·07	53·85	55·13	55·58	54·41	52·85
2	50·18	48·24	47·24	46·96	46·86	48·60	51·38	53·93	S 30·32	55·55	54·38	S 1·99
3	50·08	48·26	47·23	46·90	46·94	S 50·35	51·46	...	55·19	55·55	54·34	52·72
4	50·12	S 49·57	S 44·28	46·93	46·88	48·75	51·55	53·98	55·24	55·55	S 26·75	52·58
5	49·98	48·20	47·24	46·88	46·90	48·87	51·65	S 61·34	55·28	55·56	54·25	52·52
6	49·97	48·13	47·24	46·88	S 41·36	48·95	51·77	54·09	55·31	55·48	54·20	52·45
7	S 60·65	48·08	47·28	46·90	46·94	49·03	51·90	54·16	55·30	S 33·27	54·14	52·33
8	49·75	48·13	47·17	S 41·45	46·97	49·14	S 9·71	54·27	55·35	55·53	54·19	52·23
9	49·74	48·08	47·15	46·95	47·00	49·22	52·04	54·24	S 31·67	55·48	54·14	S 14·83
10	49·65	48·03	47·16	46·93	47·03	S 49·96	52·12	54·25	55·40	55·48	54·10	51·99
11	49·54	S 48·65	S 43·24	46·92	47·08	49·32	52·22	54·30	55·38	55·49	S 25·02	51·92
12	49·44	47·92	47·16	46·93	47·14	49·50	52·30	S 25·31	55·43	55·44	53·98	51·78
13	49·45	47·90	47·14	46·94	S 42·16	49·64	52·40	54·32	55·46	55·39	53·94	51·68
14	S 57·57	47·90	47·14	46·96	47·26	49·75	52·47	54·40	55·58	S 32·81	53·94	51·69
15	49·22	47·88	47·14	S 41·63	47·30	49·90	S 13·55	54·40	55·55	55·34	...	51·63
16	49·10	47·84	47·11	46·87	47·40	49·97	52·65	54·43	S 32·80	55·30	53·74	S 10·69
17	49·08	47·84	47·10	46·86	47·44	S 53·08	52·73	54·49	55·67	55·36	53·69	51·36
18	48·94	S 47·28	S 42·79	46·94	47·54	50·20	52·79	54·54	55·60	55·30	S 19·29	51·27
19	48·92	47·78	47·05	46·88	47·56	50·26	52·84	S 24·58	55·65	55·24	53·62	51·13
20	48·84	47·75	47·04	46·94	S 44·50	50·44	52·93	54·65	55·64	55·19	53·54	51·03
21	S 54·10	47·77	47·04	46·94	47·70	50·45	53·04	54·71	55·60	S 31·73	53·50	50·93
	9·02									5·29		

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

Day of the Month, 1849.	Replot 40 January.	40 February.	40 March.	40 April.	40 May.	40 June.	50 July.	50 August.	50 September.	50 October.	50 November.	50 December.
d	°	°	°	°	°	°	°	°	°	°	°	°
22	48·64	47·73	47·04	S 41·43	47·73	50·56	S 51·28	54·75	55·70	54·98	53·42	50·85
23	48·65	47·65	47·07	46·96	47·82	50·69	53·20	54·78	S 53·76	54·94	53·38	S 6
24	48·59	47·52	47·04	46·95	47·90	S 62·50	53·19	54·83	55·72	54·90	53·33	50·70
25	48·50	S 46·20	S 46·28	46·94	47·95	50·83	53·39	54·80	55·69	54·82	S 20·79	Christ. Day.
26	48·44	47·60	47·04	46·97	48·00	50·90	53·46	S 28·52	...	54·74	53·15	50·61
27	48·45	47·51	47·00	46·94	S 47·10	50·98	53·55	54·95	55·70	54·68	53·12	50·55
28	S 51·27	47·46	46·97	46·87	48·14	51·03	53·65	55·02	55·69	S 29·06	52·98	50·43
29	48·30		46·97	S 41·63	48·25	51·14	S 20·44	55·06	55·66	54·67	52·94	50·39
30	48·28		46·98	46·88	48·37	51·19	53·75	55·08	S 55·09	54·52	52·95	S
31	48·25		46·98	6·88	48·44	66·67	53·83	55·08	28·16	54·43	15·14	50·26
	21·842	189·44	191·96	173·02	20·144	257·76	68·26	1736	131·92	140·49	93·37	37·8
	49·21	47·89	47·11	46·02	47·46	49·91	52·63	55·51	55·49	55·21	53·73	51·5

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

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

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

Day of the Month, 1849.	Replot 40 January.	40 February.	40 March.	40 April.	40 May.	50 June.	50 July.	50 August.	50 September.	50 October.	50 November.	40 December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	47·08	45·90	44·96	S 34·04	46·40	52·27	S 35·31	57·90	58·25	57·80	54·45	50·10
2	46·94	45·88	45·12	45·51	46·69	52·42	56·60	57·90	S 52·05	57·70	54·40	S
3	46·83	45·83	45·18	45·54	46·84	S 11·46	56·69	...	58·20	57·65	54·28	49·49
4	46·81	S 35·77	S 31·85	45·64	47·07	52·80	56·78	57·80	58·20	57·65	S 26·86	49·11
5	46·58	45·70	45·19	45·70	47·30	53·10	56·89	S 39·70	58·20	57·50	53·99	49·05
6	46·42	45·68	45·22	45·78	S 40·48	53·20	57·04	57·80	58·25	57·34	53·85	48·98
7	S 40·66	45·71	45·38	45·87	47·77	53·48	57·08	57·80	58·25	S 45·64	53·70	48·85
8	45·98	45·85	45·37	S 34·04	48·08	53·72	S 41·08	58·85	58·15	57·03	53·68	48·75
9	45·70	45·88	45·40	46·13	48·31	53·90	57·30	58·85	S 49·25	56·77	53·48	S
10	45·50	45·89	45·49	46·22	48·49	S 20·40	57·44	58·85	58·00	56·60	53·31	48·48
11	45·30	S 34·71	S 32·05	46·32	48·67	54·22	57·70	57·80	58·10	56·47	S 22·01	48·44
12	45·20	45·87	45·50	46·42	48·70	54·38	57·80	S 49·95	58·00	56·20	53·19	48·34
13	45·27	45·87	45·42	46·47	S 50·02	54·50	57·90	57·80	58·00	55·98	53·07	48·23
14	S 32·95	45·87	45·31	46·52	48·94	54·57	58·00	58·85	58·00	S 39·05	53·12	48·23
15	45·16	45·78	45·34	S 38·08	48·90	54·67	S 46·14	58·80	58·20	55·48	...	48·12
16	45·12	45·68	45·38	46·40	48·98	54·60	57·95	57·75	S 48·30	55·27	52·86	S
17	45·28	45·57	45·40	46·38	49·08	S 26·94	58·00	58·70	58·00	55·17	52·70	47·78
18	45·27	S 34·64	S 32·35	46·38	49·27	54·77	58·10	57·60	58·00	54·92	S 14·94	47·78
19	45·38	45·47	45·37	46·30	49·38	54·90	58·15	S 49·50	58·00	54·77	52·39	47·80
20	45·47	45·40	45·60	46·30	S 54·55	54·96	58·10	57·50	58·00	54·67	52·12	47·87
21	S 31·68	45·43	45·70	46·20	49·78	55·00	58·00	58·45	57·95	S 30·28	52·00	47·90
22	45·58	45·40	45·74	S 37·96	49·86	55·08	S 48·30	58·40	58·00	54·48	51·80	47·90
23	45·78	45·40	45·85	46·04	50·04	55·26	58·00	58·35	S 47·95	54·48	51·70	S 47·00
24	45·89	45·47	45·78	45·96	50·27	S 29·97	58·00	58·30	58·00	54·50	51·59	47·73
25	45·90	S 32·57	S 34·24	45·90	50·38	55·40	58·00	58·30	57·95	54·48	S 11·60	Christ. Day.
26	45·98	45·57	45·85	45·89	50·50	55·62	58·00	S 49·30	...	54·48	51·20	47·38
27	46·08	45·50	45·77	45·97	S 60·83	55·84	58·00	59·05	57·90	54·48	51·13	47·19
28	S 35·21	45·52	45·68	46·03	50·90	55·96	58·00	59·05	57·90	S 26·90	50·87	46·91
29	46·08		45·60	S 35·79	52·12	56·19	S 48·00	59·10	57·85	54·47	50·67	46·79
30	46·08		45·56	46·27	52·10	56·30	57·90	58·30	S 39·60	54·50	50·47	S
31	46·00		45·58	6·27	52·15	35·31	57·90	58·30	7·93	54·46	4·34	46·47
	158·66	136·12	147·94	152·14	216·98	117·31	199·32	216·15	149·35	155·30	52·02	203
	45·88	45·67	45·31	46·09	49·14	54·51	57·67	58·81	58·29	55·75	52·64	48·15

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

The reading on March 1 is supposed to be erroneous. The increase in the readings from May 28 to May 29 is remarkable.

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

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

Day of the Month, 1849.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	43·34	42·84	42·58	S 19·2	46·96	56·15	S 42·3	60·50	62·18	58·38	53·12	44·70
2	42·98	42·59	42·47	44·08	47·50	56·46	60·44	60·68	S 61·4	58·18	52·70	S 33·7
3	42·30	42·78	42·48	44·38	48·00	S 33·2	60·80	...	62·12	57·87	52·37	44·92
4	41·76	S 18·32	S 17·80	44·48	48·70	57·04	60·80	60·58	62·08	57·35	S 79·8	45·05
5	41·11	43·50	43·38	44·50	49·53	57·59	60·80	S 3·20	62·20	57·01	52·10	44·97
6	40·85	43·78	43·67	44·89	S 46·9	57·90	60·78	60·40	62·30	56·30	51·80	44·57
7	S 12·34	43·98	43·89	45·19	50·57	58·28	61·00	60·59	62·18	S 45·0	51·27	44·67
8	40·42	44·12	44·00	S 27·3	50·62	58·38	S 4·6	61·00	62·05	55·50	50·89	44·75
9	40·30	44·06	43·98	45·88	50·30	58·40	61·98	61·40	S 72·9	55·38	51·10	S 28·9
10	40·54	43·88	43·50	45·94	49·90	S 45·5	62·47	61·78	61·40	54·92	51·40	44·58
11	40·88	S 23·32	S 22·42	45·92	49·60	58·10	62·70	62·10	61·20	54·00	S 48·5	44·37
12	41·04	43·70	42·67	45·75	49·40	57·70	62·88	S 7·2	60·90	53·50	51·48	44·21
13	41·02	43·21	42·84	45·45	S 60·3	57·40	63·08	62·50	60·48	53·19	51·30	43·90
14	S 4·20	42·71	43·24	45·28	49·67	57·28	63·28	62·43	59·98	S 26·4	51·26	43·61
15	42·25	42·50	43·50	S 34·2	50·08	57·45	S 16·3	62·20	59·50	52·40	...	43·72
16	42·30	42·60	43·82	44·98	50·58	57·62	63·48	62·00	S 63·4	52·07	50·30	S 24·3
17	42·40	42·71	44·22	44·82	50·97	S 45·5	63·37	61·80	59·30	51·91	49·73	45·07
18	42·70	S 17·43	S 20·29	44·70	51·30	58·00	63·30	61·38	59·30	52·06	S 54·0	45·49
19	43·10	42·58	44·42	44·37	51·49	57·97	62·90	S 12·3	58·90	52·50	48·70	45·62
20	43·52	42·88	44·45	43·97	S 61·0	58·13	62·30	60·78	58·54	52·90	48·80	45·62
21	S 16·2	43·28	44·44	43·69	51·88	58·05	61·86	60·85	58·40	S 13·8	48·88	45·17
22	44·17	43·38	44·39	S 26·5	52·00	58·38	S 7·2	60·98	58·28	53·57	48·78	44·50
23	44·35	43·68	44·35	43·57	52·34	58·80	61·23	61·12	S 52·7	53·43	48·47	S 31·4
24	44·23	43·68	44·08	43·90	52·56	S 49·3	61·20	61·30	58·30	53·60	48·19	43·27
25	44·27	S 19·48	S 26·1	44·27	52·88	59·00	60·75	61·40	58·28	53·77	S 51·8	Christ. Day.
26	44·40	43·60	43·55	44·57	53·47	60·31	60·43	S 6·4	...	53·90	47·60	42·30
27	44·52	43·48	43·24	45·11	S 55·1	60·66	60·30	61·70	58·19	54·00	46·98	42·19
28	S 25·9	43·19	43·12	45·40	54·48	60·78	60·30	61·93	58·20	S 22·2	46·12	42·05
29	43·70	10·27	43·19	S 26·8	55·00	60·90	S 4·2	61·98	58·35	54·08	45·40	41·70
30	43·39		43·27	46·30	55·50	60·70	60·50	62·08	S 41·3	54·03	44·90	S
31	43·02		43·40		55·70	62·35	60·94	62·10		53·55	40·88	
	68·86	78·71	96·14	12·39	300·98	217·43	43·85	37·56	242·67	14·35	243·64	101·88
	42·56	43·28		42·58	51·15	58·36	61·69	61·44	60·11			
			43·57									

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

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

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

Day of the Month, 1849.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	37·5	38·5	40·0	S 22·2	53·0	63·0	S 34·2	62·7	65·8	56·7	50·8	41·8
2	32·0	45·0	45·0	48·0	53·0	65·0	65·0	64·0	S 9·3	54·0	50·0	S 54·3
3	31·0	46·5	45·7	45·5	57·8	S 7·8	65·7	...	66·0	52·8	51·0	44·0
4	35·0	S 10·2	S 18·9	47·0	60·7	65·0	64·0	61·0	67·0	56·0	S 12·8	39·0
5	36·0	46·5	46·0	48·0	61·7	69·6	63·7	S 13·5	67·0	50·0	49·5	42·0
6	35·0	46·0	46·0	49·0	S 41·0	63·8	65·5	63·3	63·8	50·0	47·7	45·0
7	S 26·5	44·0	48·0	49·5	54·0	63·7	70·0	65·8	64·0	S 7·9	44·0	44·0
8	[illegible]	44·0	44·8	S 47·0	51·0	64·0	S 33·9	70·5	61·0	53·4	54·0	43·0
9	40·5	42·5	38·5	48·0	49·8	60·5	70·0	67·0	S 8·8	48·0	53·8	S 7·7
10	43·8	48·0	38·8	47·0	48·8	S 8·6	69·0	68·0	61·0	45·0	52·7	41·0
11	40·7	S 31·0	S 22·1	45·0	50·0	57·6	70·0	78·8	61·7	50·0	S 12·1	41·0
12	36·0	39·0	47·5	43·0	51·7	56·6	70·0	S 53·4	67·7	50·0	49·7	39·0
13	46·5	37·0	49·0	45·5	S 5·3	58·5	70·0	65·6	57·7	48·0	52·0	37·5
					0·9							

(V.)—Reading of a Thermometer whose bulb is sunk to the depth of one inch—*continued.*

Day of the Month, 1849.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
14	S 66·0	41·0	43·0	44·5	55·8	60·0	68·0	63·5	59·0	S 54·4	50·5	45·0
15	41·5	44·8	47·0	S 33·0	56·7	63·0	S 57·0	64·8	59·0	48·8	...	50·5
16	41·8	41·7	48·0	45·5	57·0	61·4	68·0	63·0	S 66·1	47·7	44·0	S 34·0
17	49·0	40·0	46·6	43·0	56·5	S 57·1	70·0	62·0	60·8	54·0	43·0	49·8
18	45·0	S 3·5	S 41·1	41·7	56·8	63·3	65·5	60·7	56·0	57·0	S 83·2	48·0
19	48·5	45·8	44·0	40·0	54·4	61·7	62·6	S 19·6	57·5	56·3	49·8	46·0
20	48·0	45·0	44·0	42·0	S 37·2	61·5	59·5	63·8	56·8	60·8	45·8	41·0
21	S 94·1	43·0	44·0	40·8	58·5	63·6	61·3	64·0	67·8	S 84·6	47·0	39·0
22	45·8	49·8	43·0	S 13·0	54·7	63·0	S 26·9	65·7	60·0	53·0	43·0	38·0
23	46·0	44·0	43·2	48·0	56·8	68·0	62·6	64·0	S 38·9	56·5	44·0	S 61·8
24	47·5	46·0	42·5	46·0	60·0	S 81·1	56·0	64·6	62·0	57·0	47·0	35·0
25	48·4	S 33·6	S 20·7	48·0	61·0	66·4	60·7	66·2	58·0	56·8	S 96·6	Christ. Day.
26	46·6	42·5	41·0	48·0	61·0	67·2	61·7	S 28·3	...	56·7	40·0	38·0
27	41·0	40·7	42·0	50·0	S 52·0	68·0	61·0	64·0	61·0	54·8	36·0	40·0
28	S 95·3	45·0	43·0	50·0	58·0	64·0	63·8	64·0	61·0	S 94·8	34·0	31·0
29	40·0	43·4		S 6·0	59·0	65·0	S 5·8	66·0	61·3	53·0	38·8	33·0
30	39·0	44·8		54·8	63·0	63·6	62·8	67·7	S 108·7	53·0	43·7	S 5·7
31	41·2	48·0		22·2	14·8	63·8	43·8	94·2	63·0	65·7	51·0	37·0

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

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

Days of the Month, 1849.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	32·5	40·0	42·8	S 37·0	58·8	69·8	S 57·1	66·0	69·8	56·0	54·0	43·0
2	29·0	48·6	49·8	51·4	58·8	72·7	67·8	70·0	S 54·1	52·8	55·0	S 47·8
3	26·6	47·5	50·8	50·0	65·6	S 46·0	68·0	...	70·0	54·0	54·4	40·2
4	34·5	S 13·9	S 37·0	51·7	71·5	71·0	64·8	69·8	72·8	57·7	S 42·8	36·5
5	31·8	48·0	50·0	52·8	72·0	82·0	67·0	S 59·6	74·0	50·5	51·8	44·0
6	34·5	44·5	53·4	55·8	S 87·2	67·0	71·0	70·0	73·0	50·8	49·0	44·0
7	S 11·9	43·5	51·5	52·0	48·8	68·0	79·4	75·0	67·8	S 21·8	43·7	44·5
8	38·5	49·5	44·0	S 32·7	52·6	69·3	S 58·0	79·0	66·8	52·0	56·7	46·0
9	42·0	45·0	38·0	52·0	51·0	63·8	76·0	71·3	S 64·4	46·0	56·7	S 75·2
10	46·0	51·7	41·7	48·0	45·6	S 61·1	75·0	74·0	66·2	49·8	56·4	39·0
11	38·0	S 42·2	S 38·6	44·5	50·5	59·0	77·8	76·0	65·0	53·8	S 134·3	39·0
12	34·8	36·7	52·0	43·5	54·6	58·0	77·2	S 83·3	56·0	51·7	53·0	34·5
13	50·5	39·5	55·5	44·5	S 37·1	65·0	76·3	66·0	59·0	48·0	53·5	31·5
14	S 69·8	45·8	42·8	48·5	60·0	66·7	76·3	65·5	63·5	S 1·3	52·5	49·0
15	41·5	50·0	50·0	S 41·0	62·0	71·7	S 98·6	67·0	63·7	50·0	...	55·5
16	44·0	40·8	50·4	47·0	60·7	65·5	75·0	64·5	S 13·4	51·0	47·5	S 68·5
17	52·5	44·3	51·8	44·4	58·0	S 25·9	71·3	66·8	64·0	61·0	44·8	51·7
18	48·5	S 17·1	S 62·5	45·4	60·0	69·0	66·8	65·5	57·7	64·8	S 10·3	51·0
19	50·5	48·0	43·8	37·6	58·0	63·0	63·0	S 35·3	62·0	65·0	50·0	44·8
20	49·5	47·7	45·8	43·7	S 58·7	67·0	60·0	68·0	58·0	67·7	43·0	40·5
21	S 106·5	44·5	46·4	42·0	64·0	69·0	63·0	67·8	63·0	S 59·5	46·0	35·5
22	48·0	55·0	41·7	S 20·1	56·0	69·0	S 39·1	68·5	66·4	57·7	41·8	35·7
23	48·5	48·6	42·2	51·4	62·0	78·6	60·0	66·7	S 11·1	61·0	46·7	S 79·2
24	50·5	46·6	41·0	48·8	68·8	S 56·6	54·4	68·8	66·7	63·7	46·0	32·8
25	50·0	S 50·4	S 20·9	52·8	66·6	71·8	62·8	73·0	63·7	60·0	S 93·5	Christ. Day.
26	47·0	42·0	40·5	49·4	66·5	71·8	65·5	S 52·8	...	58·0	36·7	39·0
27	42·5	43·8	44·7	58·8	S 83·9	75·5	66·8	65·5	68·7	56·0	32·1	40·7
28	S 106·5	47·8	44·8	51·7	58·0	65·7	71·0	68·5	64·1	S 56·4	30·0	26·4
29	38·8	13·6	45·0	S 72·9	63·8	69·3	S 20·5	68·5	65·0	56·4	38·0	34·8
30	36·8		47·0	61·0	71·7	63·0	66·0	73·8	S 28·2	57·0	48·0	S
31	42·2	27·8	55·0	21·6	70·0	63·5	67·1	68·0	44·3	53·0	34·8	35·7

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

The upper limit of graduation of the 6-feet thermometer is 57°·50, at which point the uniform bore of the thermometer-tube is expanded into a small bulb. When the alcohol enters the bulb, the reading can only be obtained by rough estimation: and it is probable that the apparent irregularity of reading from day to day between July 11 and October 4 may be due to the difference of estimation by different observers.

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

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

		d	h	
1848.	Dec.	31.	12.	The direction of the wind was N.N.E.
1849.	Jan.	31.	12.	,, ,, W.S.W., which implies apparent retrograde motion of 135°.
	Jan.	6.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	Jan.	12.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	Jan.	29.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of January was 945°.

		d	h	
1849.	Jan.	31.	12.	The direction of the wind was W.S.W.
	Feb.	28.	12.	,, ,, W.S.W., which implies no apparent change.
	Feb.	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	Feb.	25.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	Feb.	27.	0.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of February was 360°.

		d	h	
1849.	Feb.	28.	12.	The direction of the wind was W.S.W.
	March	31.	12.	,, ,, S.E., which implies apparent direct motion 112½°.
	March	17.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	March	19.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	March	30.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of March was 472½°.

		d	h	
1849.	March	31.	12.	The direction of the wind was S.E.
	April	30.	12.	,, ,, N.N.E., which implies apparent direct motion 247½°.
	April	12.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	April	14.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	April	18.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	April	25.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of retrograde motion in the month of April was 472½°.

		d	h	
1849.	April	30.	12.	The direction of the wind was N.N.E.
	May	31.	12.	,, ,, S.S.W., which implies apparent retrograde motion 180°.
	May	12.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	May	20.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	May	21.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	May	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	May	27.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	May	29.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	May	30.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

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

		d	h	
1849.	May	31.	12.	The direction of the wind was S.S.W.
	June	30.	12.	,, ,, N., which implies apparent direct motion 157½°.
	June	5.	2½.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	June	9.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	June	11.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

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

		d	h	
1849.	June	17.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	June	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	June	28.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of June was 2317½°.

		d	h	
1849.	June	30.	12.	The direction of the wind was N.
	July	31.	12.	,, ,, W.S.W., which implies apparent retrograde motion 112½°.
	July	16.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	July	21.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of July was 607½°.

		d	h	
1849.	July	31.	12.	The direction of the wind was W.S.W.
	August	31.	12.	,, ,, E., which implies apparent direct motion 202½°.
	August	5.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	August	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	August	30.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of August was 1282½°.

		d	h	
1849.	August	31.	12.	The direction of the wind was E.
	Sep.	30.	12.	,, ,, N.E., which implies apparent retrograde motion 45°.
	Sep.	1.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	Sep.	3.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	Sep.	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	Sep.	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of September was 675°.

		d	h	
1849.	Sep.	30.	12.	The direction of the wind was N.E.
	Oct.	31.	12.	,, ,, S.E., which implies apparent retrograde motion 270°.
	Oct.	3.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	Oct.	6.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	Oct.	16.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	Oct.	29.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of October was 1170°.

		d	h	
1849.	Oct.	31.	12.	The direction of the wind was S.E.
	Nov.	30.	12.	,, ,, N.N.W., which implies apparent direct motion 202½°.
	Nov.	2.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	Nov.	23.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.
	Nov.	28.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of direct motion in the month of November was 562½°.

		d	h	
1849.	Nov.	30.	12.	The direction of the wind was N.N.W.
	Dec.	31.	12.	,, ,, W., which implies apparent retrograde motion 67½°.
	Dec.	3.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	Dec.	10.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion 360°.
	Dec.	12.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion 360°.

Therefore the whole excess of retrograde motion in the month of December was 427½°.

The whole excess of direct motion to the end of the year was 8392½°.

AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1849.

1849, Month.	Monthly Amount of Rain collected in the Gauge.			
	On the Roof of the Library.	Crosley's.	Cylinder partly sunk in the Ground.	Cylinder partly sunk in the Ground at the Royal Naval Schools.
	in.	in.	in.	in.
January	1·4	1·5	1·5	1·4
February	2·2	2·0	2·3	1·4
March	0·3	0·5	0·6	1·2
April	2·0	2·2	2·0	2·0
May	3·6	3·6	3·7	3·7
June	0·1	0·3	0·3	0·2
July	2·8	2·8	2·9	2·6
August	0·4	0·5	0·5	0·5
September	2·8	3·0	3·3	2·8
October	2·6	2·6	2·7	2·6
November	1·5	1·4	1·5	1·2
December	1·9	2·0	2·4	2·2
Sums	21·6	22·4	23·7	21·8

The gauges at the Royal Observatory were read at 9^h P. M., and the monthly records for the Royal Observatory terminate at 9^h P.M., on the last day of every month. The gauge at the Royal Naval Schools was read at noon on the last day of every month, except in three instances, to be spoken of presently; the results, therefore, are not strictly comparable in those instances in which rain has fallen after noon on the last day of the month. This circumstance occurred on February 28, when rain fell heavily between the hours of noon and 9^h P. M.; and this fall is attributed to the month of February in the record of the Royal Observatory, and to the month of March in the record of the Royal Naval Schools.

At the Royal Naval Schools the reading was not taken for April; but, at the end of May, the amount accumulated in the two months was found to be $5^{in.}7$. In like manner, the reading was not taken at the end of July, and the amount collected at the end of August was found to be $3^{in.}1$ for July and August; the reading was also not taken at the end of December, but at the end of January, 1850, the amount found in the gauge was $3^{in.}3$. These numbers, when divided in proportion to the monthly falls at the Royal Observatory, give the separate numbers inserted in the table above.

Greenwich Mean Solar Time, or Limits of Time, 1849.	Sign of Electricity, as shewn by Dry Pile Apparatus.	READINGS OF ELECTROMETERS.					Time of Recovery after Discharge.	RONALDS' SPARK-MEASURER.		GALVANOMETER.	
		Single Gold Leaf of Dry Pile Appa-ratus.	Double Gold Leaf.	Volta (1).	Volta (2).	Henley.		Opening of Spark-measurer, or Length of Spark.	Corresponding Frequency.	The Head of the Needle towards A.	The Head of the Needle towards B.
d h m s h m s						° °		in.	sp. sec.	° °	° °
Jan. 21. 21. 23. 0 to 21. 37. 30	Neg.	B. R.	B. R.	B. R.	B. R.	0 to 40	Instantly	0·15	Several	15	..
21. 38. 0	Pos.	B. R.	B. R.	B. R.	B. R.	20	Instantly	0·10	3 in 1	..	3
21. 38. 30 to 21. 39. 0	Neg.	B. R.	B. R.	B. R.	B. R.	35	Instantly	0·15	Volley	40	..
21. 40. 0	...	0	0	0	0	0	..	..	...	..	..
21. 41. 0 to 21. 43. 0	Neg.	B. R.	B. R.	B. R.	B. R.	6 to 20	Instantly	0·11	Volley	13	..
21. 44. 0 to 21. 45. 0	Pos.	B. R.	B. R.	B. R.	B. R.	8 to 26	Instantly	0·10	3 in 1	..	3
21. 46. 0	...	0	0	0	0	0	..	..	...	..	..
Feb. 24. 1. 30. 0 to 1. 50. 0	Neg. & Pos.	B. R.	B. R.	B. R.	B. R.	0 to 18	Instantly	0·10	1 in 1 Slight vollies	..	0 to 5
1. 50. 0 to 2. 0. 0	Neg.	B. R.	B. R.	B. R.	B. R.	0 to 15	Instantly	0·06	3 in 1	5	..
Mar. 8. 1. 40. 0 to 1. 50. 0	...	suddenly cut off	B. R.	B. R.	B. R.	22	Instantly	..	Abundant	..	..
April 18. 23. 14. 0	Neg.	B. R.	B. R.	B. R.	B. R.	10	Instantly	0·05	1 in 1	..	..
19. 1. 34. 0 to 1. 35. 0	Pos.	B. R.	B. R.	B. R.	B. R.	12 to 14	Instantly	0·01	1 in 15	..	2
								0·02	1 in 5	..	..
May 26. 21. 0. 0	Neg.	B. R.	B. R.	B. R.	B. R.	20	Instantly	0·12	Frequent	..	..
June 5. 2. 32. 0	...	B. R.	B. R.	B. R.	B. R.	12	Instantly	0·11	Frequent	..	..
2. 34. 0	...	0	0	0	0	0	..	..	...	..	..
June 25. 2. 30. 0 to 2. 34. 0	Neg.	B. R.	B. R.	B. R.	B. R.	32 to 40	Instantly	0·16	Frequent	..	..
								0·15			
2. 35. 0	Neg.	B. R.	B. R.	B. R.	B. R.	10	Instantly	0·07	Frequent	..	..
2. 37. 0	...	0	0	0	0	..	..	..	...	..	..
June 25. 23. 35. 0	Neg.	B. R.	B. R.	B. R.	B. R.	42	Instantly	0·03	5 in 1	18	..
23. 37. 0	Neg.	B. R.	B. R.	B. R.	B. R.	50	Instantly	0·26	5 in 1	12	..
23. 39. 0 to 23. 40. 0	Neg.	B. R.	B. R.	B. R.	B. R.	40 to 42	Instantly	0·16	5 in 1	15	..
								0·20	3 in 1		
23. 41. 0	Neg.	B. R.	B. R.	B. R.	B. R.	40	Instantly	0·20	4 in 1	19	..
23. 43. 0	Neg.	B. R.	B. R.	B. R.	B. R.	30	Instantly	0·12	1 in 1	..	..
23. 44. 0	...	0	0	0	0	0	..	..	...	..	..
23. 46. 0	Neg.	B. R.	B. R.	B. R.	B. R.	30	Instantly	0·08	1 in 1	..	..
23. 49. 0	Neg.	B. R.	B. R.	B. R.	B. R.	30	Instantly	0·12	2 in 1	2	..
23. 51. 0 to 23. 54. 0	Neg.	B. R.	B. R.	B. R.	B. R.	10 to 30	Instantly	0·05	2 in 1	..	..
								0·13	2 in 1		
23. 56. 0	...	0	0	0	0	0	..	..	...	..	..
July 26. 1. 58. 10	Neg.	B. R.	B. R.	B. R.	B. R.	15	Instantly	0·02	3 in 2	..	..
1. 59. 0 to 2. 1. 30	Neg.	B. R.	B. R.	B. R.	B. R.	50 to 60	Instantly	0·03	2 in 1	4 to 30	..
2. 4. 0 to 2. 6. 0	Neg.	B. R.	B. R.	B. R.	B. R.	60	Instantly	0·25	1 in 1	3	..
2. 23. 0	Neg.	B. R.	B. R.	B. R.	B. R.	0 to 50	Instantly	..	...	..	..
2. 24. 0 to 2. 25. 35	Neg. & Pos.	B. R.	B. R.	B. R.	B. R.	50	Instantly	0·25	3 in 1	..	..
2. 27. 0 to 2. 33. 0	Neg.	B. R.	B. R.	B. R.	B. R.	50	Instantly	0·30	1 in 1	3	..
2. 34. 19	Neg.	B. R.	B. R.	B. R.	B. R.	50	Instantly	..	...	..	..
2. 49. 3 to 2. 49. 38	Pos.	B. R.	B. R.	B. R.	B. R.	40	Instantly	..	...	..	2
2. 50. 0	...	0	0	0	0	0	..	..	...	..	..
2. 50. 25	Pos.	B. R.	B. R.	B. R.	B. R.	15	Instantly	..	...	..	..
2. 54. 2	Pos.	B. R.	B. R.	B. R.	B. R.	3 to 50	Instantly	0·02	...	..	3
3. 0. 0	Pos.	B. R.	B. R.	B. R.	B. R.	..	Instantly	..	...	..	..
3. 6. 0 to 3. 15. 0	Pos.	B. R.	B. R.	B. R.	B. R.	..	Instantly	..	...	..	..
3. 16. 0	Neg.	B. R.	B. R.	B. R.	B. R.	..	Instantly	..	...	..	..

The letters B. R. denote that the gold leaf or straws have been deflected from the vertical *beyond the range* to which confidence can be placed in their indications. The greatest inclination considered trustworthy, for all the electrometers except Henley's, is about 20° from the vertical.

WIND.		REMARKS.
From Osler's Anemometer.		
Direction.	Pressure in lbs. per square foot.	
	from lbs. to lbs.	
WSW	½ to 3½	At 21h. 35m hail was falling.
WSW	½ to 3½	
WSW	½ to 3½	Heavy rain falling.
WSW	0 to 2	Snow and sleet falling.
WSW	1 to 3	Heavy rain falling.
WSW	½ to 3	The rain has ceased.
WSW	½ to 3	
N		
N		
NW	0 to 1	Hail falling.
NE	0 to 1	During the morning of this day rain, sleet, and snow fell frequently.
NE	½ to 4	
SW	..	At 22h. 7m rain was falling heavily at the rate of one inch in 26m. 40s, as measured by Crosley's rain-gauge.
W by S	..	At 2h. 30m thunder was heard frequently in the N., N.W., and W.
W by S	..	
ESE	..	At 2h. 29m heavy rain commenced falling, and continued some time.
ESE		
ESE		
WSW	..	At 23h. 30m thunder was heard in the N. E., and rain commenced falling.
WSW		
SW	..	Very heavy rain falling.
SW		
SW		
SW	..	The rain still continues.
SW		
SW		
SW	..	The rain has ceased.
SW		
SSW	..	A very long and loud clap of thunder in the N. to N.W. Between 1h and 2h frequent thunder in the N.
SSW	..	Distant thunder; at 2h. 1m. 2s lightning, followed by thunder in 16 seconds.
SSW		
SW	..	Several claps of thunder in the N.W. [was again Negative.
SW	..	The electricity suddenly changed to Positive, and a long clap of thunder was heard, after which the electricity
SW	..	Thunder heard frequently.
SSW	..	Lightning, followed by thunder in 16 seconds. [heavily.
WNW	½ to 3	At 2h. 48m rain commenced falling. At 2h. 48m. 45s lightning followed by thunder in 15 seconds; rain falling
WNW	½ to 3	Lightning followed by thunder in 15 seconds.
WNW	½ to 3	At 2h. 52m. 15s thunder; rain commenced falling. At 2h. 52m. 40s lightning followed by thunder in 15 seconds;
NW	..	A loud clap of thunder, and heavy rain continues falling. [heavy rain falling.
NNW	..	Rain very violent. At 3h. 6m lightning followed by thunder in three seconds.
NW		
W	..	Heavy rain still falling.