

PHYSIOLOGICAL OFFICE  
Phys:  
Room

## AT

For the Year 1877.

F 128.

1878.

It was intended that these observations should be included in the Q. W. R. for 1876. Only 100 copies were however printed. See M. O. ~~2073~~  
1879.



## OBSERVATIONS

FROM

## STATIONS OF THE SECOND ORDER, 1877.

For the year 1877, returns from eight stations are available for publication in *extenso* on Form A., in addition to those published for 1876.

The complete list for 1877 is therefore as follows:—

Stations.	Observers.
Glenalmond, Perthshire	Rev. W. Percy Robinson, D.D.
Durham	G. A. Goldney, Esq.
*Hawes, Yorkshire	Rev. J. Dunne Parker, LL.D.
*Wakefield	H. Clarke, Esq.
*Kelstern, Lincolnshire	D. G. Briggs, Esq.
*Buxton, Derbyshire	E. J. Sykes, F.R.A.S.
*Hillington, Norfolk	Rev. H. Ffolkes.
Uppingham, Rutlandshire	Rev. G. H. Mullins, M.A.
Oscott, Warwickshire	Rev. S. J. Whitty, B.A.
*Churchstoke, Montgomery	P. Wright, F.C.S.
*Hereford	T. A. Chapman, M.D.
*Audley End (Saffron Walden)	Mr. J. Bryan.
*Carmarthen	G. J. Hearder, M.D.
*Marlborough	Rev. T. A. Preston, M.A.
*Strathfield Turgiss, Hants	Rev. C. H. Griffith.
*Ramsgate	Rev. A. E. O'Gara, O.S.B.
Hastings	Alex. E. Murray, Esq.
*Dartmoor Prison	R. E. Power, L.R.C.P.
*Babbicombe, Devon	E. E. Glyde, Esq.
St. Aubin's, Jersey	J. E. Vibert, M.A.
Markree Castle, Sligo	E. Salles for Col. Cooper, F.R.A.S.
Dublin	J. W. Moore, M.D.
Parsonstown (Birr Castle)	J. Dreyer, M.A., for the Earl of Rosse.

The stations in the above list marked with an asterisk are in connexion with the Meteorological Society (London), and the Returns are published here under an arrangement which is fully detailed in the Report of the Meteorological Committee for 1874.

Kelstern takes the place of Calcethorpe, the observer D. G. Briggs, Esq., having removed during December 1876 to the former place, which is exactly one mile to the northward of Calcethorpe.

The position of Glenalmond has been re-determined, and is found to be 4' to the westward and 1' to the northward of that previously given.

As in previous years, the symbols adopted by the Vienna Congress are used in the "Remarks" column. They are as follows:—

Rain	- - - ●	Hoar-frost	- - - —	Solar Corona	- - - ⊕
Snow	- - - *	Dew	- - - —	Solar Halo	- - - ○
Thunderstorm	- - - ⚡	*Silver-thaw ("Rauh-frost," "Duft")	✓	Lunar Corona	- - - ⊙
Lightning without Thunder, or Sheet Lightning	- - - <	Glazed Frost ("Glatteis")	- - - ~	Lunar Halo	- - - ⊕
Hail	- - - ▲	Snow-drift	- - - ⊕	Rainbow	- - - (
Soft-Hail ("Graupel")	- - - △	Ice Crystals	- - - ←	Aurora	- - - ✨
Mist, Fog	- - - ☼	Strong Wind	- - - ↻	Dust, Haze ("Höhenrauch")	- - - ∞

\* "Rauh-frost" or "Duft-anhang" is the phenomenon of the deposition of a large quantity of frozen moisture on trees when the weather suddenly becomes warm after great cold, sometimes called as above "Silver-thaw."



In respect of their intensity, the individual phenomena are distinguished by the figures 0 and 2, which are used as exponents of the symbols, in such a way that 0 indicates very slight, 2 strong.

*e.g.* ●<sup>0</sup> slight Rain.  
●<sup>2</sup> heavy Rain.

It is further to be remarked that Fog (mist) is only entered when the observer is quite enveloped in it.

In giving the period of occurrence of the various phenomena "m" is always understood, thus—

a. indicates a.m.  
p. " p.m.  
9a.—9p. " 9 a.m. to 9 p.m., and  
n. is used to indicate night.

The form in which the observations are published is that recommended for international use by the Permanent Committee of the Vienna Congress, as will be seen from page 9 of their Report for 1874.

The readings of the barometer are reduced to 32° Faht. at Mean Sea Level by the tables given in the "Instructions in the use of Meteorological Instruments," 1875.

The observations of temperature are all corrected for errors of the thermometers. The minimum and maximum

The minimum and maximum thermometers have been set at 9 p.m., (at Durham at 10 p.m.) and the readings entered to the day on which they were read.

The tables employed for the hygrometrical reductions are Glaisher's, 5th edition, London, 1869.

In Relative Humidity, complete saturation is represented by 100.  
The Wind direction is

The Wind direction is *true*. Wind force is estimated by Beaufort's Scale, where 0 represents calm, and 12 represents a hurricane, but at Durham the wind force is obtained by an anemometer, the indications of which are converted into their equivalents in the Beaufort Scale by the table given at page 58 in the "Instructions."

The Cloud amount is estimated by a scale in which 0 represents clear sky, and 10 completely overcast.

Rainfall is measured at 9 a.m. each morning, (at Durham at 10 a.m.,) and the amount registered entered to the *previous* day.

The height of the station above Mean Sea Level given is always that of the platform on which the station stands.

Figures printed in *italic type* are interpolations, obtained by careful comparison of the Returns from adjacent stations; they have been used for obtaining the means for the months.

The extremes of the Minimum Temperature, Maximum Temperature, Relative Humidity, and Rainfall columns, are, as in previous years, printed in Egyptian type.

GLENALMOND.

Height above Mean Sea Level, 529 feet. Long.  $3^{\circ} 40' W.$  Lat.  $56^{\circ} 27' N.$

JANUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind. Direction and Force.		Cloud Amount.	Rain.	Remarks.		
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.			
1	ins.	ins.	32°0	27°0	20°5	40°0	in.	in.	%	%	NNE 2	(N) 2/84	1	0	ins.	1000	* <sup>2</sup> n. and a. ~ p. * a. Very cold day.
2	28°988	29°333	32°0	27°0	20°5	40°0	176	115	97	79	SSW 1	Calm	0	0	10	0	
3	29°639	29°816	33°4	13°4	12°7	25°7	110	070	89	87	ENE 1	E	4	10	10	10	* showers all day.
4	829	591	22°4	30°0	10°5	31°3	105	167	89	100	ESE 3	NE 3	10	10	10	10	* showers.
5	241	105	33°0	33°0	29°2	44°7	175	167	93	89	E 2	ENE 1	10	10	10	10	
6	038	29°069	32°0	33°4	31°2	33°4	176	183	92	86	W 1	SE 3	10	10	10	10	
7	29°090	28°840	33°7	35°0	32°1	35°7	187	199	97	98	SSW 1	SW 3	10	10	10	10	
8	28°830	28°812	39°7	41°2	34°5	42°5	222	238	91	92	SW 3	SW 1	10	6	10	6	n. Rapid thaw.
9	29°069	29°318	42°5	38°0	32°7	44°7	257	215	94	95	NNW 2	(N) 2/10	1	10	10	10	almost gone.
10	29°652	30°026	35°6	33°7	33°1	42°1	177	160	85	83	E 2	ENE 1	9	10	10	10	* <sup>2</sup> a. and p.
11	30°125	30°098	33°5	33°6	32°5	34°3	143	160	75	84	ENE 2	Calm	0	10	9	10	* <sup>2</sup> a. and p.
12	29°955	29°838	33°4	27°3	27°3	34°8	162	143	85	96	NE 1	NE 1	10	6	10	6	* <sup>2</sup> a. and p.
13	788	870	30°1	28°2	26°8	32°2	153	140	92	92	Calm	NE 1	10	10	10	10	* <sup>2</sup> a. and p.
14	866	899	29°0	32°1	20°0	32°7	154	174	96	96	Calm	Calm	0	10	10	10	* <sup>2</sup> a. and p.
15	621	464	33°3	34°2	31°5	37°2	186	193	95	98	SW 1	WSW 1	10	10	10	10	* <sup>2</sup> a. and p.
16	795	904	35°0	33°2	32°5	41°4	148	185	72	93	WSW 1	Calm	0	10	10	10	* <sup>2</sup> a. and p.
17	763	663	34°5	40°4	32°5	43°2	196	249	98	99	WSW 1	Calm	0	10	10	10	* <sup>2</sup> a. and p.
18	694	672	34°1	31°2	30°5	44°7	176	170	88	98	E 1	SE 2	10	10	10	10	* <sup>2</sup> a. and p.
19	464	484	35°6	35°1	27°5	43°7	198	203	95	99	ESE 2	WNW 3	10	0	10	0	* <sup>2</sup> a. and p.
20	29°433	29°583	38°9	37°6	33°5	49°9	235	176	99	79	W 1	SW 5	1	5	260	260	* <sup>2</sup> a. and p.
21	30°110	30°253	34°6	39°0	32°5	42°7	173	191	86	81	SW 5	SW 3	10	10	220	220	* <sup>2</sup> a. and p.
22	240	276	42°0	39°0	37°5	47°7	249	208	94	88	NNE 1	(S) 2/10	4	8	10	10	* <sup>2</sup> a. and p.
23	494	30°385	30°0	34°5	28°5	42°5	143	196	88	93	SW 1	SSE 2	10	10	170	170	* <sup>2</sup> a. and p.
24	30°142	29°765	40°3	41°5	33°0	44°0	223	226	90	87	SW 2	S 1	4	10	850	850	* <sup>2</sup> a. and p.
25	29°810	29°894	34°9	33°8	32°3	44°5	162	179	80	92	WSW 2	S 2	0	10	180	180	* <sup>2</sup> a. and p.
26	340	29°621	38°0	33°0	30°0	40°5	217	105	95	87	SW 1	SW 2	8	1	570	570	* <sup>2</sup> a. and p.
27	988	30°004	32°8	35°5	29°0	43°0	143	170	77	83	WSW 2	SW 2	7	10	320	320	* <sup>2</sup> a. and p.
28	755	29°965	40°2	38°2	34°8	47°0	243	182	97	79	WSW 4	SW 4	6	0	890	890	* <sup>2</sup> a. and p.
29	469	429	38°2	30°9	30°0	42°0	226	158	98	91	WSW 5	WNW 4	6	0	1000	1000	* <sup>2</sup> a. and p.
30	29°572	29°641	32°0	32°9	28°2	37°0	170	181	93	97	W 1	Calm	0	10	350	350	* <sup>2</sup> a. and p.
31	28°984	29°069	32°1	34°0	31°4	43°2	174	164	95	83	W 1	Calm	0	10	10	10	* <sup>2</sup> a. and p.
Means	29°635	29°674	34°2	33°6	29°6	40°3	181	178	90°4	91°0	1°9	1°7	7°6	7°3	8°990	8°990	

DURHAM.

Height above Mean Sea Level, 335 feet. Long.  $1^{\circ} 35' W.$  Lat.  $54^{\circ} 46' N.$

JANUARY 1877.

	10 a.m.	10 p.m.	10 a.	10 p.	Min.	Max.	10 a.	10 p.	10 a.	10 p.	10 a.m.	10 p.m.	10 a.	10 p.	10 a.
1	28° 7'32	29° 0'91	37° 2	34° 2	32° 5	49° 0	*188	98	95	NNE 2° 4	NNW 0° 9	10	8	*260	
2	29° 0'75	*809	29° 8	25° 2	24° 3	38° 3	*155	129	93	95	WNW 0° 7	NW 0° 4	0	9	—
3	*710	29° 3'73	35° 6	33° 0	25° 2	36° 8	*172	186	82	99	E 0° 8	ENE 3° 0	10	10	1390
4	29° 0'72	28° 0'80	35° 2	36° 2	32° 0	38° 0	*206	212	100	99	NW 0° 8	Calm 0° 0	10	10	*226
5	28° 0'91	29° 0'52	39° 7	38° 8	34° 1	45° 0	*232	226	95	96	SSW 0° 5	W 0° 8	8	10	*220
6	29° 1'34	28° 7'04	37° 1	45° 9	34° 3	46° 3	*199	293	90	95	SSW 1° 0	S 4° 3	1	5	*407
7	28° 0'04	29° 0'61	43° 8	42° 3	40° 4	47° 1	*264	246	92	92	S 4° 8	S 3° 7	10	0	*118
8	29° 2'73	29° 4'07	45° 0	38° 2	36° 8	48° 6	*243	228	82	98	SSW 4° 2	S 0° 6	0	0	—
9	29° 6'68	30° 0'11	40° 1	41° 2	37° 8	43° 7	*225	251	91	97	NW 0° 8	NNE 0° 7	1	10	*268
10	30° 1'36	30° 0'39	38° 9	38° 2	37° 8	41° 2	*227	183	96	80	ENE 0° 8	E 0° 8	10	10	—
11	29° 0'00	29° 7'92	36° 3	32° 9	32° 4	38° 4	*153	176	70	93	NE 0° 9	NW 0° 2	10	10	—
12	*818	*982	31° 1	32° 3	28° 3	36° 8	*150	103	86	89	ENE 0° 6	NE 0° 2	9	10	—
13	*908	*910	33° 2	35° 2	28° 3	36° 8	*159	202	84	98	SE 0° 3	S 1° 5	3	10	*032
14	*642	*591	38° 3	40° 6	35° 2	44° 0	*231	219	100	87	S 2° 5	S 2° 5	10	10	*314
15	*858	*922	30° 2	37° 6	35° 3	43° 0	*192	217	80	97	W 1° 0	S 2° 5	0	10	*122
16	*842	*757	45° 7	48° 7	36° 9	48° 8	*247	306	81	89	SSW 2° 0	S 2° 9	9	2	*321
17	*679	*725	41° 3	39° 4	37° 3	49° 1	*258	233	100	97	NW 0° 2	S 0° 7	10	10	—
18	*579	*508	38° 9	45° 5	36° 1	47° 2	*227	295	96	98	SSE 3° 8	S 0° 8	10	10	*369
19	29° 4'13	29° 0'35	52° 7	40° 0	38° 4	55° 9	*373	213	94	86	S 4° 4	W 0° 5	9	2	*140
20	30° 2'31	30° 3'71	40° 8	38° 9	35° 6	45° 7	*201	206	79	87	SW 0° 8	S 0° 3	3	0	—
21	*416	*394	42° 8	44° 2	38° 1	47° 0	*233	250	85	86	S 2° 5	SW 3° 0	8	9	*008
22	*524	30° 3'06	40° 2	33° 0	45° 7	*245	*197	98	99	8	S 0° 8	S 0° 8	10	0	—
23	30° 2'40	29° 0'22	32° 7	37° 2	29° 5	40° 4	*171	*177	92	80	SSE 3° 2	S 3° 6	0	1	*348
24	29° 0'50	*088	37° 4	38° 1	31° 8	42° 8	*194	*175	87	76	W 1° 5	S 0° 8	6	10	*152
25	29° 5'15	29° 6'05	38° 6	34° 8	34° 4	45° 8	*234	*172	100	85	SW 1° 5	WNW 2° 5	10	0	*046
26	30° 0'12	30° 0'48	37° 0	33° 2	31° 9	41° 8	*175	*179	80	95	WNW 2° 2	S 0° 8	0	7	—
27	29° 0'08	30° 0'58	37° 2	38° 6	32° 9	49° 4	*216	*201	97	86	SW 2° 5	SSW 2° 0	10	0	*300
28	*578	29° 6'15	41° 7	34° 2	34° 2	47° 9	*264	*160	100	80	SSW 3° 6	WSW 2° 0	10	10	*300
29	29° 7'60	*485	35° 2	46° 7	32° 2	46° 8	*179	*317	86	99	SW 3° 5	WSW 5° 3	10	10	*690
30	28° 9'88	*705	37° 2	34° 2	33° 5	47° 4	*162	*156	73	79	W 7° 0	WNW 4° 4	8	0	—
31	29° 9'37	29° 7'73	38° 5	36° 4	32° 8	41° 1	*189	*207	82	95	WNW 2° 5	S 2° 6	10	10	*151
Means	29° 6'80	29° 7'16	38° 7	37° 9	33° 6	44° 4	*213	*212	89° 3	91° 2	2° 1	1° 8	6° 9	6° 8	6° 182



## HAWES.

Height above Mean Sea Level, 800 feet. Long. 2° 11' W. Lat. 54° 18' N.

JANUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	41°	34°	32°	46°	in.	in.	100	68	ESE 3	NNE 3	10	10	ins.	☼ a. ✕ p.
2	28°704	29°270	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
3	29°710	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
4	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
5	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
6	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
7	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
8	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
9	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
10	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
11	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
12	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
13	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
14	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
15	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
16	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
17	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
18	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
19	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
20	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
21	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
22	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
23	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
24	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
25	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
26	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
27	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
28	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
29	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
30	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
31	29°704	28°282	41°	34°	32°	46°	260	137	100	68	ESE 3	NNE 3	10	10	—	☼ a. and op.
Means	29°727	29°762	38°1	37°7	33°7	42°7	212	203	90°2	88°8	2°1	2°3	8°3	7°5	11°430	

## WAKEFIELD.

Height above Mean Sea Level, 96 feet. Long. 1° 30' W. Lat. 53° 41' N.

JANUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	28°701	29°277	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	No observations of Weather, Wind force, or 9 p.m. Amount of Cloud, in January.
2	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
3	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
4	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
5	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
6	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
7	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
8	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
9	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
10	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
11	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
12	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
13	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
14	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
15	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
16	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
17	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
18	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
19	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
20	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
21	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
22	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
23	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
24	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
25	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
26	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
27	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
28	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
29	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
30	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
31	29°691	28°282	45°	35°	35°	51°	297	189	99	92	NNE	N	10	10	—	
Means	29°752	29°776	41°2	40°6	36°1	46°9	240	232	91°4	90°3	—	—	6°5	—	3°490	

## KELSTERN, LINCOLN.

Height above Mean Sea Level, 388 feet. Long. 0° 7' W. Lat. 53° 24' N.

JANUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	45°	36°	36°	48°	in.	in.	100	93	S 3	NW 3	10	10	ins.	☼ a. ✕ p.
2	28°723	29°149	45°	36°	36°	48°	290	197	95	93	S 3	NW 3	10	10	—	☼ a. and op.
3	29°661	28°01	45°	36°	36°	48°	290	197	95	93	S 3	NW 3	10	10	—	☼ a. and op.
4	29°704	28°282	45°	36°	36°	48°	290	197	95	93	S 3	NW 3	10	10	—	☼ a. and op.
5	29°704	28°282	45°	36°	36°	48°	290	197	95	93	S 3	NW 3	10	10	—	☼ a. and op.
6	29°704	28°282	45°	36°	36°	48°	290	197	95	93	S 3	NW 3	10	10	—	☼ a. and op.
7	29°704	28°282	45°	36°	36°	48°	290	197	95	93	S 3	NW 3	10	10	—	☼ a. and op.
8	29°704	28°282	45°	36°	36°	48°	290	197	95	93	S 3	NW 3	10	10	—	☼ a. and op.
9	29°704	28°282	45°	36°	36°	48°	290	197	95	93	S 3	NW 3	10	10	—	☼ a. and op.
10	29°704	28°282	45°	36°	36°	48°	290	197	95	93	S 3	NW 3	10	10	—	☼ a. and op.
11	29°704	28°282	45°	36°	36°	48°	290	197	95	93	S 3	NW 3	10	10	—	☼ a. and op.
12	29°704	28°282	45°	36°	36°	48°	290	197	95	93	S 3	NW 3	10	10	—	☼ a. and op.
13	29°704	28°282	45°	36°	36°	48°	290	197	95	93	S 3	NW 3	10	10	—	☼ a. and op.



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## HILLINGTON, NORFOLK.

Height above Mean Sea Level, 88 feet. Long. 0° 33' E. Lat. 52° 48' N.

JANUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.		
1	ins.	ins.	50.2	40.7	40.3	51.5	ins.	ins.	78	95	SW 5	NW 4	10	10	ins.	1.15p.—1.45p.
2	28.795	29.092	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
3	29.638	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
4	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
5	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
6	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
7	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
8	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
9	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
10	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
11	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
12	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
13	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
14	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
15	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
16	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
17	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
18	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
19	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
20	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
21	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
22	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
23	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
24	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
25	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
26	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
27	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
28	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
29	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
30	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
31	29.633	29.702	35.2	34.2	30.9	41.3	28.1	24.0	78	95	N 2	E 3	4	9	—	
Means	29.798	29.817	40.2	39.9	34.9	46.4	23.2	23.5	91.5	92.7	2.8	2.9	7.5	6.1	3.266	

## UPPINGHAM.

Height above Mean Sea Level, 484 feet. Long. 0° 44' W. Lat. 52° 35' N.

JANUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.		
1	28.740	29.136	46.7	37.5	36.8	49.5	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
2	29.660	29.754	31.8	34.2	31.2	40.4	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
3	29.591	29.994	36.3	40.4	33.6	46.4	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
4	29.144	29.688	47.4	45.0	44.3	49.6	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
5	29.164	29.111	41.2	42.0	40.4	48.0	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
6	29.271	29.072	39.0	47.8	35.3	48.0	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
7	29.032	29.236	45.3	44.0	41.3	48.5	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
8	29.475	29.481	47.1	45.3	42.3	48.3	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
9	29.668	29.777	41.6	44.6	40.8	46.8	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
10	29.062	29.940	41.0	41.0	37.2	46.0	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
11	29.803	29.800	36.0	33.8	33.3	41.6	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
12	29.822	29.956	31.3	34.1	29.0	38.0	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
13	29.032	29.035	33.0	35.6	32.3	39.1	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
14	29.780	29.578	41.5	41.0	35.0	46.7	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
15	29.941	29.055	36.2	39.0	35.0	42.2	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
16	29.027	29.954	43.0	47.9	38.2	48.1	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
17	29.779	29.826	49.0	39.1	39.1	50.0	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
18	29.780	29.669	40.5	49.1	35.7	49.8	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
19	29.645	29.956	52.7	43.6	43.0	54.3	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
20	29.301	29.512	38.8	37.4	37.0	47.3	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
21	29.595	29.599	34.7	39.1	33.2	46.2	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
22	29.593	29.536	36.8	35.0	33.2	43.2	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
23	29.406	29.146	36.7	38.2	31.2	45.2	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
24	29.058	29.162	39.7	34.8	33.3	43.0	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
25	29.693	29.746	40.9	35.0	32.6	48.2	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
26	29.026	29.201	34.5	33.9	32.4	41.4	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
27	29.108	29.212	35.0	36.7	31.5	44.3	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
28	29.917	29.849	42.2	37.7	35.7	50.8	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
29	29.045	29.837	34.4	47.1	32.4	47.6	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
30	29.205	29.730	43.5	37.2	35.0	47.8	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
31	29.029	29.910	35.9	36.7	34.2	41.3	28.1	21.4	89	95	SSE 1	SSE 1	10	10	ins.	
Means	29.787	29.815	39.8	40.0	35.7	46.1	23.0	23.3	91.6	88.5	2.5	2.6	7.2	6.5	3.369	

## OSCOTT.

Height above Mean Sea Level, 460 feet. Long. 1° 51' W. Lat. 52° 33' N.

JANUARY 1877.

JANUARY 1871.																	
Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.	
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	3 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.		
1	ins.	ins.	46° 2	37° 0	36° 8	48° 8	in.	in.	%	%					ins.		
2	28° 680	29° 175	46° 2	37° 0	36° 8	48° 8	° 310	° 202	99	92	SE	0-1	NNE	4-5	10	10	ins. ° 070 10a. and p.
3	29° 673	29° 722	31° 2	34° 9	31° 0	38° 6	° 151	° 167	86	82	Calm	0	ENE	4-5	6	10	° 060 * 0 p.
4	29° 546	29° 444	36° 4	48° 0	34° 1	48° 3	° 207	° 314	96	94	ENE	3	SE	3	10	10	1° 120 a.
5	29° 102	29° 055	46° 8	45° 0	44° 9	51° 4	° 211	° 277	97	93	S	2	SSW	4	10	0	— p.
6	29° 139	29° 116	40° 9	39° 3	39° 2	47° 6	° 238	° 221	94	92	SSW	3	SSW	3	7	8	° 080 ga. 0 p.
7	29° 234	29° 882	39° 9	48° 0	38° 0	48° 7	° 218	° 290	89	87	SSE	1-2	S	7	10	7	° 270 from 5p.
8	29° 991	29° 193	43° 5	43° 9	43° 3	48° 8	° 273	° 251	97	97	S	5	S	7-8	10	0	° 020 early morning. p. 0 p.
9	29° 415	29° 470	40° 1	40° 6	43° 3	49° 0	° 203	° 306	94	96	S	3	S	3	10	10	— ga. and p. 0 p.
10	29° 671	29° 711	39° 1	43° 2	38° 9	47° 5	° 239	° 277	100	98	SW	1	Calm	0	10	2	° 100 a.
11	29° 056	29° 022	37° 1	41° 0	34° 1	44° 3	° 221	° 250	100	98	NE	2	ENE	5-6	10	10	— ga. 0 p.
12	29° 817	29° 816	36° 6	34° 9	34° 4	42° 5	° 169	° 175	78	86	NNE	5-6	Calm	0	10	10	— n. * 0 3p.
13	29° 822	29° 946	29° 9	35° 0	29° 2	36° 0	° 149	° 204	90	100	SSE	1	Calm	0	9	10	° 040 10a. p. * 0 4.30p.
14	30° 025	30° 080	33° 6	37° 7	33° 0	38° 2	° 191	° 220	99	98	SW	0-1	S	3	10	10	° 050 a.
15	29° 730	29° 619	42° 6	42° 0	37° 5	47° 9	° 273	° 239	100	90	S	3	W	3-5	10	10	° 250 Wind gusty, 0p.
16	29° 967	29° 034	35° 7	40° 8	34° 4	44° 5	° 180	° 221	85	88	W	3	SSW	3	1	10	— ga. 0 p.
17	30° 000	29° 907	42° 2	49° 2	40° 8	49° 3	° 252	° 345	93	99	S-SSW	3	SSW	5	9	10	° 130 ga. and p.
18	29° 720	29° 806	48° 9	40° 9	39° 2	50° 0	° 333	° 249	97	98	S	4-5	SSE	1	10	10	° 080 0p. and before.
19	29° 591	29° 596	41° 9	51° 0	37° 0	51° 2	° 248	° 351	94	94	SSE	3-4	S	6-7	10	10	° 090 n. and all day.
20	30° 307	30° 523	37° 0	36° 6	36° 1	48° 7	° 206	° 215	91	78	SSW	7	W	5	10	9	— ga.
21	29° 588	29° 579	39° 4	33° 7	48° 1	40° 0	° 201	° 91	93	WSW	0-1	W	1	9	0	— ga.	
22	29° 587	29° 510	36° 4	36° 1	34° 6	44° 3	° 196	° 194	91	91	S	0-1	SSW	3	10	9	— ga. 0 p.
23	29° 372	29° 068	35° 7	40° 7	32° 9	47° 9	° 183	° 166	87	66	S	1-2	S	6	7	10	° 120 ga.
24	30° 068	30° 187	38° 8	36° 9	35° 8	46° 0	° 203	° 175	86	80	SW	4	SE	2	0	10	° 060
25	29° 612	29° 788	44° 1	34° 5	34° 1	47° 8	° 289	° 170	100	85	S	3	W	4	10	0	° 050
26	30° 070	30° 203	35° 8	34° 0	33° 5	42° 9	° 164	° 170	77	86	WNW	5	S	0-1	0	0	° 070
27	30° 058	30° 220	39° 1	37° 3	32° 8	49° 8	° 239	° 201	100	91	S-SSW	4	SW	1	10	1	— ga. and p.
28	29° 868	29° 845	44° 2	36° 4	35° 9	51° 9	° 267	° 182	92	84	S-SSW	6	SW	2-3	10	1	° 100
29	30° 076	29° 866	34° 0	47° 0	31° 3	47° 9	° 176	° 206	89	81	SW	3	SW	7	10	10	° 290 * a. 0 ga. 0 p. 0 p. 2.30p.
30	29° 247	29° 814	42° 5	36° 5	36° 1	47° 9	° 224	° 184	83	85	W	7-8	w-WNW	6	2	0	° 020 ga. and all day. * 0 2 p. 0 p. 0 p.
31	30° 054	29° 862	35° 0	38° 5	35° 3	40° 9	° 184	° 229	90	98	WSW	3	S	2	10	10	° 210 Large slightly coloured 0 1 ga. 0 ga. 4p.
Means	29° 768	29° 800	39° 7	40° 5	36° 2	46° 8	° 231	° 230	92° 4	89° 7	3° 0		3° 5	8° 4	7° 0	5° 270	



## HEREFORD.

Height above Mean Sea Level, 274 feet. Long. 2° 45' W. Lat. 52° 5' N.

JANUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	47.8	40.1	40.1	52.2	ins.	ins.	98	89	Calm	WNW 1	10	10	ins.	
2	28.668	29.188	47.8	40.1	40.1	52.2	ins.	ins.	98	89	Calm	WNW 1	10	10	ins.	
3	29.675	29.647	33.6	36.7	33.1	41.3	180	194	93	90	Calm	E 1	7	10	2.20	
4	29.457	29.189	38.8	40.7	34.8	50.8	222	336	94	94	ENE 2	SSE 1	10	10	760	~ p.
5	29.089	29.048	48.0	46.1	45.6	51.8	319	277	95	89	Calm	SSW 1	7	7	0.90	
6	29.151	29.135	43.0	38.8	38.0	47.7	257	220	93	94	SW 1	Calm	9	6	1.30	
7	29.205	28.801	40.9	49.9	37.6	51.1	236	295	93	83	Calm	S 4	10	10	4.30	
8	29.014	29.212	45.4	46.7	43.7	51.0	273	252	91	80	SSW 2	SSW 3	9	9	0.50	
9	29.403	29.478	46.8	46.7	44.8	50.0	294	295	92	93	Calm	SSW 1	10	9	0.10	
10	29.673	29.990	39.7	42.5	37.0	50.8	244	252	100	93	Calm	Calm	9	1	0.36	~ a.
11	29.033	29.835	38.3	43.9	37.3	45.1	230	256	100	89	Calm	ENE 2	10	10	0.50	~ a.
12	29.819	29.827	38.2	30.7	30.6	44.9	188	145	82	85	NE 1	Calm	10	0	—	~ p.
13	29.793	29.952	32.8	37.5	28.1	38.8	105	204	89	92	Calm	Calm	8	2	0.20	~ p.
14	29.034	29.954	32.5	40.7	30.5	41.2	176	247	95	97	Calm	SE 1	6	10	0.60	~ p.
15	29.697	29.682	44.3	44.5	40.2	50.0	277	216	96	74	S 1	W 3	10	10	2.10	~ p.
16	29.022	29.019	36.7	43.7	35.9	45.7	185	255	85	89	Calm	S 2	0	7	0.10	~ p.
17	29.002	29.918	42.9	48.8	41.2	49.2	250	327	91	95	S 1	S 1	6	10	1.60	~ p.
18	29.741	29.800	45.5	41.9	41.9	50.8	272	250	90	95	W 1	Calm	10	2	0.10	~ p.
19	29.678	29.578	44.7	51.0	35.0	51.5	266	353	90	94	S 2	S 3	10	10	1.50	~ p.
20	29.591	29.000	53.4	43.7	43.7	55.4	374	210	91	73	S 3	W 2	10	1	0.60	~ p.
21	29.321	29.522	35.7	35.0	34.5	49.3	195	199	94	98	Calm	Calm	3	0	0.00	~ p.
22	29.577	29.592	35.5	39.9	32.2	48.2	194	216	94	88	Calm	Calm	7	6	0.00	~ p.
23	29.591	29.501	36.9	34.9	34.7	43.1	205	181	94	89	Calm	Calm	10	0	—	~ p.
24	29.342	29.029	38.5	42.8	34.0	49.4	188	188	82	68	SE 1	S 3	5	9	1.00	~ p.
25	29.108	29.127	40.4	37.2	35.9	46.9	201	182	80	82	WNW 3	Calm	2	10	1.30	~ p.
26	29.600	29.834	48.7	35.7	35.0	51.0	323	181	94	86	SSW 2	NW 3	10	1	0.60	~ p.
27	29.132	29.196	35.7	33.7	32.2	45.1	171	166	82	85	Calm	Calm	0	4	0.24	~ p.
28	29.060	29.231	42.8	38.3	32.1	51.9	266	219	96	95	WNW 1	Calm	10	10	0.10	~ p.
29	29.867	29.884	46.7	38.7	36.0	50.8	286	195	90	83	SW 3	WSW 3	10	10	2.00	~ p.
30	29.129	29.911	37.1	48.0	33.6	50.0	179	245	81	74	WNW 2	W 4	0	4	1.90	~ p.
31	29.345	29.904	44.1	38.6	38.6	50.0	218	188	74	81	WNW 4	NW 2	5	0	—	~ p.
Means	29.771	29.801	41.1	41.8	36.6	48.5	237	234	90.3	87.2	1.0	1.4	7.5	6.4	3.458	~ p.

## AUDLEY END, ESSEX.

Height above Mean Sea Level, 154 feet. Long. 0° 13' E. Lat. 52° 1' N.

JANUARY 1877.

1	28.746	29.139	49.5	48.9	47.2	52.1	349	345	98	95	SW 3	SW 2	10	8	2.50	~ p.
2	29.680	29.731	36.3	38.4	35.3	48.9	193	225	91	97	NW 1	NE 1	7	10	0.90	~ p.
3	29.611	29.368	42.4	48.3	37.2	48.3	267	313	98	93	Calm	Calm	10	10	4.40	~ p.
4	29.206	29.183	49.6	47.7	46.6	50.0	343	299	96	91	Calm	SW 1	10	0	0.10	~ p.
5	29.235	29.210	42.8	48.3	41.7	51.3	275	323	100	96	SW 1	SW 1	7	10	0.50	~ p.
6	29.340	29.045	41.9	49.5	38.2	50.1	236	325	90	93	SW 1	SW 3	10	10	2.90	~ p.
7	29.146	29.369	48.3	46.4	43.9	51.5	313	281	93	90	SW 3	SW 2	10	0	1.00	~ p.
8	29.510	29.544	49.7	46.1	45.2	49.7	330	309	93	99	SW 2	SW 1	10	10	3.70	~ p.
9	29.756	29.035	46.4	43.2	42.7	51.2	305	275	97	98	W 1	W 1	5	5	0.50	~ p.
10	29.072	29.908	34.5	43.5	32.2	45.6	193	271	96	96	Calm	E 2	10	10	4.70	~ p.
11	29.727	29.793	38.9	36.0	35.2	43.6	199	192	85	91	NE 2	NE 2	10	10	0.10	~ p.
12	29.847	29.977	31.6	29.0	27.7	39.1	168	154	94	96	E 1	Calm	0	6	—	~ p.
13	29.076	29.042	31.9	37.9	27.5	39.0	178	210	98	92	Calm	Calm	0	5	0.20	~ p.
14	29.836	29.610	43.4	43.4	36.2	47.3	281	263	100	94	SE 1	W 3	10	10	3.30	~ p.
15	29.967	29.125	38.6	35.9	29.7	44.2	203	193	87	92	NW 2	SW 1	7	0	0.10	~ p.
16	29.084	29.016	46.7	48.7	34.2	50.7	302	328	95	96	S 1	SW 2	10	10	0.10	~ p.
17	29.869	29.849	50.7	41.3	41.3	52.2	338	255	92	98	SW 2	Calm	10	0	0.30	~ p.
18	29.850	29.766	43.9	50.5	38.2	50.5	283	357	99	97	S 1	S 2	10	10	0.50	~ p.
19	29.771	29.048	53.8	49.3	48.5	56.0	391	268	94	76	SW 2	W 2	10	6	0.10	~ p.
20	29.308	29.592	41.0	30.5	30.5	49.3	250	162	98	94	W 1	NW 1	10	0	—	~ p.
21	29.665	29.640	31.5	31.2	27.0	45.2	142	153	80	88	SW 1	Calm	4	0	—	~ p.
22	29.607	29.568	35.0	38.3	27.0	38.2	196	149	96	97	Calm	Calm	0	0	—	~ p.
23	29.774	29.333	31.7	37.9	25.8	44.6	140	186	78	82	Calm	SW 1	0	7	0.90	~ p.
24	29.102	29.179	39.9	32.0	29.3	46.0	244	176	99	97	SW 1	NW 1	0	9	1.00	~ p.
25	29.791	29.833	42.6	37.0	30.4	50.2	264	191	96	87	S 2	NW 1	10	0	2.10	~ p.
26	29.045	29.215	36.2	35.9	34.4	41.5	186	182	87	87	NW 2	NW 1	0	0	0.30	~ p.
27	29.176	29.260	34.9	33.5	29.9	44.2	188	182	93	95	SW 1	NW 1	10	0	0.80	~ p.
28	29.040	29.906	40.7	40.6	31.0	52.2	238	211	94	84	SW 1	SW 1	10	0	0.40	~ p.
29	29.108	29.885	37.1	41.9	34.2	47.4	182	222	82	85	W 2	W 2	0	0	0.70	~ p.
30	29.283	29.726	40.2	38.6	35.1	47.0	277	197	90	85	SW 3	NW 3	10	0	1.60	~ p.
31	29.044	29.920	37.4	39.0	35.5	42.2	190	233	86	98	NW 2	SW 1	7	10	2.40	~ p.
Means	29.838	29.863	41.1	40.6	35.4	47.4	247	239	92.7	92.2	1.3	1.3	7.6	5.0	3.620	~ p.

## CARMARTHEN.

Height above Mean Sea Level, 188 feet. Long. 4° 18' W. Lat. 51° 52' N.

JANUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.		
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.			
1	ins.	ins.					in.	in.	%	%	W	1	N	1	10	9	ins.	
2	28.846	29.253	45.3	42.7	42.2	52.7	280	241	93	88	W	1	N	1	10	9	0.80	
3	29.639	29.682	36.0	36.2	33.5	44.5	183	199	87	94	N	1	W	4	9	10	3.80	
4	29.322	29.205	40.1	48.8	36.2	52.7	233	312	94	91	E	3	E	1	9	10	1.450	
5	29.162	29.049	47.6	46.1	46.1	52.6	301	295	92	95	S	1	S	2	9	6	2.40	
6	29.110	29.095	45.2	43.7	42.0	52.9	277	276	93	96	SW	2	SW	1	10	10	7.20	
7	29.075	28.734	43.9	48.2	42.4	52.0	285	319	99	96	SE	1	SW	3	10	5	7.10	
8	29.082	29.218	47.7	48.0	43.2	52.2	294	307	89	92	SW	1	SW	2	8	9	0.90	
9	29.380	29.454	49.6	47.7	46.6	51.6	343	329	96	98	SW	1	Calm	0	6	10	0.60	
10	29.661	29.985	48.0	45.7	45.4	53.0	335	305	100	98	Calm	0	W	1	7	3	0.20	
11	29.974	29.800	40.0	43.9	39.7	47.2	247	283	100	99	E	1	E	1	9	10	0.40	
12	29.834	29.824	40.4	31.9	31.9	45.5	210	171	84	95	N	1	Calm	0	9	0	0.80	
13	29.794	29.994	39.8	38.6	30.8	45.8	231	210	95	90	N	1	Calm	0	10	5	1.70	
14	29.999	29.912	35.0	44.2	33.0	45.0	204	290	100	100	NE	1	Calm	0	10	10	1.470	
15	29.564	29.754	49.1	43.1	41.4	50.9	349	229	100	82	S	2	S	3	10	5	2.30	
16	30.040	30.062	40.2	48.0	35.8	49.1	213	335	86	100	Calm	0	SW	1	1	10	3.40	
17	29.996	29.768	46.9	48.8	43.5	50.8	304	345	95	100	SW	1	SW	2	10	10	4.30	
18	29.587	29.514	48.8	50.8	37.3	52.2	267	231	97	100	Calm	0	Calm	0	7	0	1.20	
19	29.550	30.095	51.3	40.9	40.5	53.2	378	245	100	96	SW	3	Calm	0	10	0	0.30	
20	30.336	30.336	52.1	37.8	30.4	46.8	218	238	96	100	Calm	0	Calm	0	5	3	0.20	
21	29.570	29.566	45.7	42.4	38.7	51.7	276	253	91	94	SW	1	Calm	0	9	9	—	
22	29.539	30.400	40.4	41.9	39.5	46.0	240	224	96	85	SE	1	SE	1	8	9	—	
23	29.208	29.930	43.5	42.3	40.3	50.7	227	305	89	95	S	1	SW	2	5	10	3.80	
24	30.175	30.842	40.7	43.7	39.4	49.3	208	283	82	98	NW	1	SW	3	1	10	7.80	
25	29.641	29.968	46.7	38.4	38.1	50.9	307	201	96	87	W	2	NW	1	10	0	0.20	
26	30.195	30.189	39.0	39.0	37.1	51.1	238	222	100	94	W	1	E	1	0	10	1.80	
27	30.085	30.245	49.3	40.2	38.7	54.5	352	249	100	100	W	1	Calm	0	10	6	2.80	
28	29.877	29.934	49.6	38.5	38.3	51.8	269	207	76	90	W	4	W	1	7	10	0.70	
29	29.155	29.994	40.9	48.6	36.0	50.6	214	296	84	87	W	2	SW	4	9	9	3.90	
30	29.534	29.771	44.0	41.7	41.2	52.2	229	216	77	83	N	4	NW	1	7	3	—	
31	29.108	29.900	37.0	49.2	33.0	50.4	212	343	96	98	Calm	0	SW	2	10	10	2.00	
Means	29.767	29.795	43.6	43.4	38.8	50.4	266	269	92.5	94.2	1.4		1.3		7.9	7.7	8.940	

Squalls.  $\triangle$  10a.  $\triangle$  11.20p.

$\triangle$  10p.

in valley, ga.

$\triangle$  9p.

Frequent  $\triangle$ . Stormy all night.



## STRATHFIELD TURGISS.

Height above Mean Sea Level, 195 feet. Long. 1° 0' W. Lat. 51° 20' N.  
JANUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	51°	47°	47°	52°	ins.	ins.	100	100	SW 3	W 1	9	9	ins.	2 a.
2	28°734	29°145	51°	47°	47°	52°	304	304	90	94	Calms	SE 2	1	10	380	
3	29°680	29°677	51°	47°	47°	52°	304	304	90	94	SE 1	SE 1	10	10	392	
4	29°680	29°677	51°	47°	47°	52°	304	304	90	94	S 1	SW 1	10	5	392	
5	29°680	29°677	51°	47°	47°	52°	304	304	90	94	SW 1	SE 1	10	7	392	
6	29°680	29°677	51°	47°	47°	52°	304	304	90	94	S 1	S 3	10	10	392	
7	29°680	29°677	51°	47°	47°	52°	304	304	90	94	SW 2	SW 2	6	1	392	
8	29°680	29°677	51°	47°	47°	52°	304	304	90	94	SE 1	Calms	10	10	392	
9	29°680	29°677	51°	47°	47°	52°	304	304	90	94	SW 2	SW 1	8	5	392	
10	29°680	29°677	51°	47°	47°	52°	304	304	90	94	Calms	E 3	10	10	392	
11	29°680	29°677	51°	47°	47°	52°	304	304	90	94	NE 2	N 1	10	4	392	
12	29°680	29°677	51°	47°	47°	52°	304	304	90	94	Calms	SE 1	8	10	392	
13	29°680	29°677	51°	47°	47°	52°	304	304	90	94	Calms	S 1	10	10	392	
14	29°680	29°677	51°	47°	47°	52°	304	304	90	94	SW 1	NW 2	10	10	392	
15	29°680	29°677	51°	47°	47°	52°	304	304	90	94	NW 1	SW 1	5	8	392	
16	29°680	29°677	51°	47°	47°	52°	304	304	90	94	SW 1	SW 1	6	10	392	
17	29°680	29°677	51°	47°	47°	52°	304	304	90	94	S 1	Calms	10	10	392	
18	29°680	29°677	51°	47°	47°	52°	304	304	90	94	S 2	S 3	10	10	392	
19	29°680	29°677	51°	47°	47°	52°	304	304	90	94	S 3	NW 2	10	10	392	
20	29°680	29°677	51°	47°	47°	52°	304	304	90	94	Calms	N 1	10	10	392	
21	29°680	29°677	51°	47°	47°	52°	304	304	90	94	N 1	N 1	3	2	392	
22	29°680	29°677	51°	47°	47°	52°	304	304	90	94	Calms	Calms	8	0	392	
23	29°680	29°677	51°	47°	47°	52°	304	304	90	94	SE 1	SW 3	0	10	392	
24	29°680	29°677	51°	47°	47°	52°	304	304	90	94	SW 1	Calms	0	10	392	
25	29°680	29°677	51°	47°	47°	52°	304	304	90	94	NW 2	NW 2	10	0	392	
26	29°680	29°677	51°	47°	47°	52°	304	304	90	94	NW 1	NW 1	0	0	392	
27	29°680	29°677	51°	47°	47°	52°	304	304	90	94	S 1	NW 2	10	4	392	
28	29°680	29°677	51°	47°	47°	52°	304	304	90	94	S 2	W 2	9	10	392	
29	29°680	29°677	51°	47°	47°	52°	304	304	90	94	NW 2	NW 3	0	9	392	
30	29°680	29°677	51°	47°	47°	52°	304	304	90	94	W 4	W 2	10	0	392	
31	29°680	29°677	51°	47°	47°	52°	304	304	90	94	NW 1	W 1	10	10	392	
Means	29°842	29°866	42°	41°	36°	48°	252	240	91°	90°	1°	1°	7°	6°	3°	914

## RAMSGATE.

Height above Mean Sea Level, 105 feet. Long. 1° 25' E. Lat. 51° 20' N.  
JANUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	28°856	29°183	51°	49°	45°	55°	335	328	88	94	S 10	SW 9	10	10	380	2 a. Force of wind 11.
2	29°075	29°140	49°	47°	43°	53°	326	321	99	87	N 2	NE 4	10	10	250	
3	29°075	29°140	49°	47°	43°	53°	326	321	99	87	S 4	SW 5	10	5	210	
4	29°075	29°140	49°	47°	43°	53°	326	321	99	87	S 5	S 6	10	7	210	
5	29°075	29°140	49°	47°	43°	53°	326	321	99	87	SW 5	S 7	7	4	—	
6	29°075	29°140	49°	47°	43°	53°	326	321	99	87	S 6	SW 8	10	10	250	
7	29°075	29°140	49°	47°	43°	53°	326	321	99	87	S 9	S 8	8	3	170	
8	29°075	29°140	49°	47°	43°	53°	326	321	99	87	SE 4	SW 1	10	10	980	
9	29°075	29°140	49°	47°	43°	53°	326	321	99	87	SW 1	Calms	0	6	—	
10	29°075	29°140	49°	47°	43°	53°	326	321	99	87	NE 2	NE 7	7	10	820	
11	29°075	29°140	49°	47°	43°	53°	326	321	99	87	NE 7	N 5	10	10	210	
12	29°075	29°140	49°	47°	43°	53°	326	321	99	87	NW 1	Calms	0	4	—	
13	29°075	29°140	49°	47°	43°	53°	326	321	99	87	Calms	Calms	0	8	—	
14	29°075	29°140	49°	47°	43°	53°	326	321	99	87	S 5	S 7	10	10	200	
15	29°075	29°140	49°	47°	43°	53°	326	321	99	87	W 4	Calms	0	6	—	
16	29°075	29°140	49°	47°	43°	53°	326	321	99	87	S 4	S 6	10	10	070	
17	29°075	29°140	49°	47°	43°	53°	326	321	99	87	S 6	S 7	10	10	050	
18	29°075	29°140	49°	47°	43°	53°	326	321	99	87	S 5	S 8	10	10	—	
19	29°075	29°140	49°	47°	43°	53°	326	321	99	87	S 7	S 4	9	8	—	
20	29°075	29°140	49°	47°	43°	53°	326	321	99	87	N 1	W 1	10	0	150	
21	29°075	29°140	49°	47°	43°	53°	326	321	99	87	N 1	SW 1	0	2	—	
22	29°075	29°140	49°	47°	43°	53°	326	321	99	87	SW 1	S 2	10	0	—	
23	29°075	29°140	49°	47°	43°	53°	326	321	99	87	S 1	S 5	0	0	040	
24	29°075	29°140	49°	47°	43°	53°	326	321	99	87	S 5	W 2	10	1	—	
25	29°075	29°140	49°	47°	43°	53°	326	321	99	87	S 6	W 6	10	7	230	
26	29°075	29°140	49°	47°	43°	53°	326	321	99	87	NW 6	NW 3	4	0	—	
27	29°075	29°140	49°	47°	43°	53°	326	321	99	87	SW 1	W 2	10	2	080	
28	29°075	29°140	49°	47°	43°	53°	326	321	99	87	S 5	SW 3	10	3	—	
29	29°075	29°140	49°	47°	43°	53°	326	321	99	87	W 7	W 7	0	9	—	
30	29°075	29°140	49°	47°	43°	53°	326	321	99	87	SW 9	W 8	10	1	240	
31	29°075	29°140	49°	47°	43°	53°	326	321	99	87	NW 3	SW 2	6	10	220	
Means	29°880	29°892	43°	42°	39°	48°	270	268	92°	90°	4°	4°	7°	5°	4°	630

## HASTINGS.

Height above Mean Sea Level, 172 feet. Long. 0° 38' E. Lat. 50° 52' N.  
JANUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	51°2	49°4	48°6	54°8	in.	in.	91	91	SSW 10	SW 8	10	10	ins.	2 a. in aftn. 2 at night.
2	29°667	29°166	51°2	49°4	48°6	54°8	340	319	91	91	N 2	ENE 5	9	10	830	[Very high tide.]
3	586	398	48°6	50°0	42°5	50°6	338	309	99	86	SSW 2	SSW 2	10	1	450	
4	241	216	49°4	49°7	48°5	50°9	343	331	97	93	SSW 3	SSW 4	10	1	090	
5	289	274	40°1	48°7	46°4	50°4	323	317	93	92	SW 4	SW 4	10	10	170	
6	395	160	48°0	49°8	42°2	50°8	309	305	93	85	SSW 5	SSW 6-7	10	10	260	
7	238	435	50°0	49°4	46°0	51°0	300	307	81	88	SSW 6-7	SW 7	6	10	520	2 at night. 9p.
8	564	29°531	49°7	49°1	46°4	50°9	329	349	92	100	S 3	NE 1	10	10	1°040	
9	29°774	30°063	49°0	47°7	46°2	51°1	330	313	99	95	SW 2	SW 3-4	9	0	020	
10	30°039	29°772	42°9	46°0	39°2	48°1	276	209	100	97	NE 3	NE 6	10	10	1240	2 a. D 2 ga.
11	29°523	29°249	44°9	37°4	36°8	48°0	294	103	99	86	NE 6	NNW 5-6	10	10	065	
12	29°836	29°965	33°1	33°1	31°2	42°2	174	168	92	89	NE 1	NNE 0-1	7	0	—	
13	30°058	30°081	33°0	38°9	32°6	40°8	193	226	88	96	NE 3	E 0-1	10	10	130	
14	29°880	29°620	46°3	47°5	38°9	48°9	309	316	99	97	SSW 4-5	WSW 3	10	10	290	
15	30°019	30°174	36°3	40°2	35°2	47°8	195	226	91	91	WNW 4	SSW 0-1	0	0	—	
16	30°159	30°106	47°4	48°4	39°2	49°0	313	325	96	96	SW 6	SSW 4	10	10	130	
17	29°950	29°873	48°8	48°8	47°0	49°0	329	343	95	99	SSW 5	S 4	10	10	210	
18	905	29°874	47°1	49°7	41°2	49°8	297	338	92	95	SSW 4	SSW 5	10	10	160	
19	29°885	30°087	51°7	50°3	48°6	53°0	346	313	90	86	SSW 4	SW 4	10	10	110	
20	30°314	563	43°7	39°9	39°2	50°8	247	233	86	95	N 1	NW 0-1	10	0	060	
21	657	672	40°1	44°4	36°4	50°2	244	259	98	88	SE 0-1	S 1	1	8	—	in the town a. U 9p.
22	655	592	40°4	40°6	37°2	45°0	220	187	88	74	S 1	S 2	9	0	030p.	
23	498	591	41°6	43°3	39°6	47°1	192	182	74	64	SE 2	S 2	0	1	015	
24	30°154	30°215	46°0	38°1	37°4	47°7	285	188	92	81	W 2	NE 0-1	1	0	140	
25	29°872	29°798	45°0	40°6	36°0	49°0	289	205	97	81	SSW 6	W 4	10	0	250	
26	30°048	30°221	37°2	37°0	34°0	42°1	172	181	78	82	NNW 5	NNW 4	10	0	930p.	
27	240	30°248	38°7	44°0	31°1	47°1	206	280	88	98	WSW 1	N 0-1	10	2	130	
28	124	29°091	46°9	41°6	38°7	49°9	209	219	94	84	SW 4	W 3	10	1	035	
29	30°197	30°043	37°0	47°1	35°0	47°6	168	286	77	89	W 4	W 6	10	10	050	
30	29°597	29°799	47°8	39°3	38°7	48°1	203	182	88	76	WSW 9	WNW 6	10	0	140	all the morning. Wind changed
31	30°091	30°033	35°8	42°7	32°7	43°4	185	259	89	94	WNW 4	SSW 3	0	10	250	1p. [to WNW. 11a.]
Means	29°877	29°893	44°1	44°4	39°7	48°5	269	266	91°2	89°2	3°8	3°4	7°5	5°6	7°035	



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## BABBICOMBE, DEVON.

Height above Mean Sea Level, 293 feet. Long. 3° 31' W. Lat. 50° 29' N.  
JANUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	46°	44°	44°	52°	ins.	ins.	%	%	W 6	W 3	9	4	ins.	8.30a.
2	28°928	29°247	46°	44°	44°	52°	28°	28°	91	92	W 6	W 3	9	4	1.050	a. and p. — to ga.
3	29°649	29°492	48°	48°	48°	53°	28°	28°	91	92	W 6	W 3	9	4	1.320	
4	29°132	29°203	48°	48°	48°	53°	28°	28°	91	92	W 6	W 3	9	4	1.320	
5	29°207	29°226	48°	48°	48°	53°	28°	28°	91	92	W 6	W 3	9	4	1.320	
6	29°154	29°899	49°	50°	40°	52°	28°	28°	91	92	W 6	W 3	9	4	1.320	a. and p. Bar. 29°096 at 2p.
7	29°085	29°330	45°	47°	44°	50°	28°	28°	91	92	W 6	W 3	9	4	1.320	in NW. 6p.-8p. 4p.-9p.
8	29°418	29°496	50°	48°	47°	51°	28°	28°	91	92	W 6	W 3	9	4	1.320	4a. 3.50a. 7.0.30p.
9	29°724	29°029	49°	43°	43°	54°	28°	28°	91	92	W 6	W 3	9	4	1.320	in S.E. 6p.-7p. 8p.
10	29°925	29°657	46°	46°	41°	47°	28°	28°	91	92	W 6	W 3	9	4	1.320	7a.-8a. D a.
11	29°789	29°856	39°	35°	34°	46°	28°	28°	91	92	W 6	W 3	9	4	1.320	
12	29°780	29°007	41°	38°	35°	42°	28°	28°	91	92	W 6	W 3	9	4	1.320	
13	29°065	29°966	36°	35°	32°	47°	28°	28°	91	92	W 6	W 3	9	4	1.320	
14	29°720	29°817	49°	43°	43°	51°	28°	28°	91	92	W 6	W 3	9	4	1.320	till 9.30a. D 9p.
15	29°119	29°076	38°	47°	34°	48°	28°	28°	91	92	W 6	W 3	9	4	1.320	
16	29°093	29°981	43°	50°	41°	51°	28°	28°	91	92	W 6	W 3	9	4	1.320	till ga.
17	29°809	29°866	47°	39°	39°	51°	28°	28°	91	92	W 6	W 3	9	4	1.320	D a. till ga.
18	29°717	29°662	48°	51°	38°	52°	28°	28°	91	92	W 6	W 3	9	4	1.320	D a. till ga.
19	29°694	29°078	52°	45°	45°	53°	28°	28°	91	92	W 6	W 3	9	4	1.320	D a. till ga.
20	29°331	29°561	40°	38°	38°	53°	28°	28°	91	92	W 6	W 3	9	4	1.320	D a. till ga.
21	29°608	29°610	43°	44°	35°	49°	28°	28°	91	92	W 6	W 3	9	4	1.320	D a. till ga.
22	29°571	29°480	43°	46°	41°	46°	28°	28°	91	92	W 6	W 3	9	4	1.320	D a. till ga.
23	29°365	29°092	45°	48°	44°	52°	28°	28°	91	92	W 6	W 3	9	4	1.320	D a. till ga.
24	29°199	29°131	40°	45°	39°	49°	28°	28°	91	92	W 6	W 3	9	4	1.320	D a. till ga.
25	29°714	29°964	50°	37°	37°	51°	28°	28°	91	92	W 6	W 3	9	4	1.320	D a. till ga.
26	29°304	29°254	40°	37°	35°	47°	28°	28°	91	92	W 6	W 3	9	4	1.320	D a. till ga.
27	29°158	29°298	47°	43°	37°	55°	28°	28°	91	92	W 6	W 3	9	4	1.320	D a. till ga.
28	29°021	29°047	50°	39°	39°	53°	28°	28°	91	92	W 6	W 3	9	4	1.320	D a. till ga.
29	29°291	29°126	40°	47°	34°	49°	28°	28°	91	92	W 6	W 3	9	4	1.320	D a. till ga.
30	29°575	29°015	48°	38°	38°	49°	28°	28°	91	92	W 6	W 3	9	4	1.320	D a. till ga.
31	29°172	29°990	38°	49°	35°	49°	28°	28°	91	92	W 6	W 3	9	4	1.320	D a. till ga.
Means	29°824	29°858	45°	44°	39°	50°	27°	26°	91.4	89.4	2.7	3.4	7.7	6.6	7.890	

## ST. AUBIN'S, JERSEY.

Height above Mean Sea Level, 139 feet. Long. 2° 10' W. Lat. 49° 11' N.  
JANUARY 1877.

1	29° 140	29° 372	52° 0	50° 0	48° 2	57° 2	*299	*309	77	86	SW	7	SW	7	9	3	*472	[Bar. at 5.20a. 28° 901. 2p.
2	*694	*601	45° 3	50° 6	44° 2	50° 8	*268	*335	89	91	NW	1	S	3	5	10	*535	2 from 3a. at times force 9-10.
3	*487	*352	50° 5	52° 1	49° 7	54° 1	*331	*337	91	86	S by E 4	S by W 3	9	10	10	*300	Δ° 0 a. Partial 0 ga.-10a.	
4	*258	*272	50° 0	50° 1	49° 2	53° 2	*334	*290	93	80	S by W 3	SW	4	10	4	*012		
5	*337	*379	49° 1	47° 3	45° 2	51° 6	*295	*246	84	76	SSW	4	SW	6	10	4	*262	
6	*370	*167	49° 6	51° 6	42° 5	53° 3	*340	*272	96	72	SSW	5	SSW	7	10	0	*210	
7	*272	*406	50° 3	50° 5	45° 0	52° 8	*304	*312	83	85	SSW	4	SW	3	7	0	*212	
8	*528	29° 556	50° 0	49° 1	48° 7	52° 3	*352	*349	98	100	S	1	Calm	0	10	0	*930	
9	*774	30° 072	51° 3	48° 8	47° 2	53° 8	*329	*290	87	84	SW	4	Calm	0	5	8	*075	
10	*886	29° 534	48° 8	48° 7	47° 0	52° 8	*327	*344	95	100	ENE	4	Calm	0	10	10	*246	
11	*744	*894	46° 2	42° 7	39° 1	49° 1	*285	*237	92	86	NW	3	NW	1	10	8	*275	
12	29° 842	29° 990	46° 4	44° 2	41° 8	47° 2	*218	*263	89	91	S	2	WNW	2	10	10	*358	
13	30° 117	30° 090	45° 2	45° 2	38° 0	47° 1	*293	*285	71	95	NbyW 1	SW	4	4	10	10	*060	
14	29° 888	29° 840	49° 0	45° 4	44° 2	51° 5	*335	*271	97	90	S	3	SW	2	10	8	*280	
15	29° 178	30° 216	45° 0	47° 3	41° 2	54° 0	*257	*268	86	83	NW	1	SW	3	5	0	*004	
16	30° 201	30° 129	50° 0	50° 6	46° 0	53° 1	*334	*355	93	97	SW	4	SW	3	5	10	*054	
17	29° 948	29° 937	50° 3	48° 0	47° 2	51° 6	*345	*309	95	93	S	4	SW	2	10	0	*155	
18	*909	29° 871	47° 8	51° 6	44° 8	51° 8	*288	*363	87	95	S	5	SSW	4	10	10	*013	
19	29° 929	30° 156	54° 3	49° 6	47° 0	55° 0	*360	*351	85	99	SW	5	Calm	0	10	10	*547	
20	30° 352	*607	45° 1	43° 2	42° 5	50° 5	*274	*260	91	92	N	2	Calm	0	10	0	*020	
21	*690	*658	46° 7	44° 4	41° 3	47° 5	*230	*224	73	76	SE	3	SE	4	0	4	—	
22	*636	*536	39° 6	43° 9	35° 2	44° 9	*180	*178	73	62	SE	4	SE	3	4	8	—	
23	*446	*252	45° 4	45° 5	42° 0	49° 3	*168	*177	55	58	SE	4	S	5	4	7	0.007	
24	30° 254	*248	47° 4	45° 5	41° 0	52° 2	*241	*259	75	86	NW	1	SE	3	9	6	—	
25	29° 943	*007	50° 6	44° 5	42° 7	51° 1	*330	*205	90	70	SW	3	NW	3	10	7	0.248	
26	30° 234	*297	44° 2	40° 4	37° 1	50° 1	*190	*203	65	81	NW	3	NW	1	5	1	0.033	
27	*287	*343	45° 7	45° 2	39° 0	50° 5	*285	*301	93	100	SSW	2	Calm	0	10	2	*023	
28	*229	*171	48° 4	45° 4	43° 3	51° 7	*308	*246	91	82	SW	5	W	4	10	4	*100	
29	30° 393	*232	46° 1	48° 3	40° 1	52° 2	*187	*309	60	62	NW	4	W	5	7	10	0.030	
30	29° 841	*054	48° 2	44° 7	43° 2	49° 1	*295	*188	89	64	SW	7	NW	4	10	4	*193	
31	30° 221	30° 104	46° 0	49° 8	42° 0	49° 8	*221	*348	72	97	NW	2	W	4	9	10	*121	
Means	29° 936	29° 947	47° 9	47° 2	43° 4	51° 3	*283	*280	84° 4	85° 5	3° 4	2° 9	8° 0	6° 1	5° 775			

2 p. [unlicated.]  
n. a. and p. 11p. K (com-  
a. till about 7p. in evening.

p. 11p. from S.E. during day.  
p. Partial 2.30p.  
ga.

a.  
a.  
p.  
a. in many places.  
faint colours, ga.-Noon.  
p.-10p. 10p.  
p. 10.45p. at times p.  
p. at times.  
p. p.  
at intervals. p.  
at night. (K at St. Helier's.)  
2 till Noon. Wind shifted to N.W.  
p.

## JANUARY.

## MARKREE CASTLE.

Height above Mean Sea Level, 131 feet. Long. 8° 27' W. Lat. 54° 11' N.  
JANUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	39°	35°	31°	46°	ins.	ins.	%	%	N 3	N 1	10	6	ins.	+ ga. ● * p.
2	28°954	29°367	39°	35°	31°	46°	28°	28°	87	92	NNW 0.5	ENE 2	1	10	0.044	
3	29°620	29°587	35°	36°	31°	46°	28°	28°	82	100	ENE 5	ENE 6	10	10	0.072	+ ga. ● * p.
4	29°201	29°034	36°	36°	31°	46°	28°	28°	92	100	ENE 5	ENE 6	10	10	0.072	
5	28°903	28°846	40°	44°	35°	46°	28°	28°	96	82	ENE 3	S 2	9	10	0.148	p. a. ga.
6	28°880	28°965	44°	39°	38°	49°	28°	28°	91	96	SW 3	SW 2	8	4	0.022	
7	29°21	29°400	37°	44°	34°	46°	28°	28°	90	90	SE 2	SE 4	8	10	0.214	p. a. ga.
8	28°527	28°752	42°	46°	40°	47°	28°	28°	86	92	SE 4	SW 4	5	10	0.480	
9	29°152	29°312	43°	44°	40°	49°	28°	28°	89	92	SSW 2	S 0.5	6	10	0.040	ga. p.
10	29°573	29°868	41°	39°	38°	45°	28°	28°	96	100	SSE 2	SE 1	9	3	0.020	
11	29°006	29°943	34°	42°	30°	43°	28°	28°	97	98	SE 1	E 0.5	10	10	0.016	ga. p.
12	29°836	29°645	41°	42°	37°	43°	28°	28°	93	93	SSE 3	SE 3	10	10	0.364	
13	28°603	29°014	34°	30°	29°	44°	28°	28°	87	87	NW 4	NE 0.5	6	0	0.060	ga. p.
14	28°687	29°759	36°	38°	27°	46°	28°	28°	96	96	SE 4	SE 1	10	10	0.161	
15	28°366	29°725	43°	35°	34°	46°	28°	28°	87	91	W 0.5	WNW 3	10	10	0.096	3p. * ga. p.
16	28°822	29°745	36°	43°	33°	46°	28°	28°	93	95	SE 2	SW 2	10	10	0.090	
17	28°636	29°721	48°	42°	41°	53°	28°	28°	95	92	SSE 4	SSE 2	2	10	0.040	p. n.
18	28°593	29°600	40°	36°	34°	46°	28°	28°	85	85	SW 3	SE 2	2	10	0.085	
19	28°204	29°427	45°	37°	32°	48°	28°	28°	87	93	SSW 3	Calm 0	6	3	0.175	p. n.
20	29°282	29°868	38°	34°	33°	40°	28°	28°	98	99	NE 1	SSE 1	10	7	0.358	
21	30°157	30°216	35°	42°	31°	45°	28°	28°	87	84	SSE 3	SSE 3	3	7	0.115	ga. p.
22	30°309	30°429	44°	42°	41°	47°	28°	28°	93	95	SSE 2	NW 1	10	10	0.375	
23	30°401	30°264	37°	44°	34°	46°	28°	28°	97	92	SSE 3	SE 4	10	10	0.012	ga. p.
24	30°900	29°604	48°	41°	41°	50°	28°	28°	90	95	SSE 4	NNW 3	8	10	0.578	
25	29°979	29°545	35°	42°	32°	44°	28°	28°	240	87	SSW 2	SSE 5	8	10	0.040	ga. p.
26	29°538	28°777	39°	35°	33°	48°	28°	28°	85	88	SW 1	W 2	7	7	0.215	
27	30°122	29°883	35°	43°	33°	44°	28°	28°	89	94	SSE 1	SE 3	7	10	0.127	ga. p.
28	29°985	30°045	44°	41°	39°	48°	28°	28°	76	82	WNW 2	SW 3	3	10	0.148	
29	28°634	29°733	38°	34°	31°	48°	28°	28°	87	81	WSW 3	NW 4	8	10	0.340	ga. p.
30	28°854	29°627	36°	47°	32°	49°	28°	28°	90	82	SW 3	WNW 5	10	9	0.570	
31	29°571	29°967	39°	40°	35°	47°	28°	28°	83	81	NW 5	NW 3	8	3	0.209	ga. p.
32	29°742	29°742	37°	50°	35°	51°	28°	28°	88	88	SW 4	WNW 4	10	10	0.160	
Means	29°595	29°630	39°	40°	34°	46°	28°	28°	90°	90°	2°	2°	8°	8°	5°	9°



## BIRK CASTLE, PARSONSTOWN.

Height above Mean Sea Level, 182 feet. Long. 7° 55' W. Lat. 53° 6' N.  
JANUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain-fall.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	43°	32°	32°	49°	ins.	ins.	97	86	NW 1	NW 0.5	10	1	ins.	
2	28°89	29°38	43°	32°	25°	49°	269	155	97	86	Calm	E 3	1	10	127	2 n.
3	29°18	28°92	40°	47°	38°	49°	235	308	92	93	E 2-3	E 1-2	10	10	253	gp
4	28°85	28°89	47°	44°	44°	51°	306	272	95	93	SE 1	SSW 1	10	8	069	
5	29°00	29°05	41°	40°	39°	47°	231	213	90	86	SSW 1	SSW 0.5	2	8	010	gp.
6	29°16	28°48	42°	45°	35°	49°	237	273	89	91	SE 0.5	SSE 2-3	10	9	277	W <sup>2</sup> from Sp.
7	28°62	28°93	43°	45°	42°	48°	240	243	84	80	S 4-5	S 4-5	8	4	210	
8	29°20	29°38	41°	39°	38°	48°	237	231	90	97	SE 0.5	E 0.5	7	1	307	a. and gp.
9	29°24	29°24	35°	37°	33°	46°	202	216	98	97	Calm	SE 0.5	7	0	008	p.
10	29°08	29°43	33°	39°	32°	40°	187	236	98	99	Calm	Calm	10	10	003	gp.
11	28°68	29°11	38°	39°	37°	44°	224	228	98	96	SE 0.5	SE 1	10	10	106	a.
12	29°21	29°06	34°	30°	29°	41°	184	150	93	90	WNW 0.5	ESE 0.5	2	0	013	
13	29°00	29°16	40°	37°	29°	50°	229	216	92	96	SE 1	SE 1	10	0	336	gp.
14	29°45	29°03	44°	37°	33°	46°	266	216	90	97	W 0.5	W 1-2	10	8	089	8.30p.
15	28°88	28°52	37°	40°	31°	49°	195	287	89	93	E 1	SSW 1	10	10	110	
16	29°49	29°06	44°	41°	53°	33°	273	273	95	93	S 1	S 2	10	10	087	gp.
17	29°41	29°06	40°	35°	34°	46°	239	184	95	89	ESE 0.5	SE 1-2	7	8	139	gp.
18	29°30	29°46	47°	43°	34°	50°	301	269	94	95	SSW 0.5	SSE 0.5	10	10	316	
19	29°24	29°46	45°	35°	35°	50°	299	195	99	93	SW 0.5	Calm	0	9	054	
20	29°24	29°34	34°	43°	31°	47°	178	223	90	78	SE 0.5	S 1	0	10	006	
21	29°40	29°46	44°	41°	41°	49°	250	241	86	92	SE 0.5	SE 0.5	7	10	002	
22	29°43	29°24	44°	45°	39°	49°	255	255	95	85	SE 0.5	SE 1	10	10	042	a.
23	29°09	29°08	48°	44°	43°	50°	305	272	90	94	ESE 1-3	ESE 0.5	9	10	483	U 7p.
24	29°01	29°05	32°	43°	31°	45°	175	255	93	92	SSW 1	SSW 3-4	3	10	284	
25	29°03	29°07	40°	33°	32°	50°	199	179	93	93	WNW 1	W 1	3	2	047	11.30 a.
26	29°19	29°08	34°	44°	31°	45°	176	270	87	92	SW 0.5	S 1-2	4	10	118	
27	29°06	29°14	45°	42°	41°	50°	243	229	80	86	W 0.5	SSW 0.5	3	10	298	
28	29°75	29°51	41°	32°	32°	51°	237	170	90	90	WSW 2-3	W 2-3	10	8	321	Passing showers of ● ▲ * all day.
29	29°07	29°07	39°	46°	32°	49°	224	264	93	83	SW 1-2	WSW 5-6	10	10	348	
30	29°64	29°04	37°	37°	36°	48°	189	212	85	96	WNW 2-4	W 1-2	2	7	128	
31	29°09	29°06	38°	49°	33°	51°	222	337	97	95	SE 1	SW 1-2	10	10	148	
Means	29°65	29°68	40°	40°	35°	48°	233	234	91°	90°	1°	1°	7°	7°	4°	739

## GLENALMOND.

Height above Mean Sea Level, 529 feet. Long. 3° 40' W. Lat. 56° 27' N.  
FEBRUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain-fall.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	29°76	29°72	34°	43°	31°	45°	192	273	98	97	SSW 1	SSW 1	10	10	—	* a. gp. and before.
2	29°19	29°46	31°	38°	29°	48°	170	170	97	73	SW 1	SW 5	8	10	—	* a. gp. during day. p.
3	29°60	29°60	35°	33°	31°	39°	185	167	91	89	SW 3	W 3	10	0	540	Many * storms and ▲ showers.
4	29°00	29°43	32°	37°	31°	39°	169	202	92	92	SW 3	WSW 3	5	6	270	* n. Strong sun through day.
5	28°20	29°04	41°	34°	33°	50°	247	177	94	90	SW 4	S 1	10	2	030	Squally morning.
6	29°01	29°75	43°	47°	33°	49°	256	313	90	97	SW 2	S 2	9	8	080	Singularly mild at 9 p.
7	28°59	29°08	43°	39°	36°	51°	235	181	84	77	WSW 2	W 3	5	2	—	Lovely day.
8	29°09	28°54	41°	42°	37°	44°	194	192	75	71	WSW 2	W 3	9	2	—	
9	28°19	28°69	42°	38°	38°	46°	215	231	82	99	W 1	Calm	0	7	10	310
10	28°72	28°36	36°	32°	31°	47°	188	178	89	98	W 1	Calm	0	7	10	370
11	28°82	28°43	34°	34°	31°	50°	196	190	90	96	W 5	E 1	7	10	540	* from Sp.
12	28°44	28°33	32°	39°	31°	40°	179	193	90	80	E 1	WSW 2	10	10	070	Thawing rapidly gp.
13	28°47	28°09	39°	33°	30°	48°	189	169	77	90	W 2	W 1	2	0	070	* n. c. 48 in. when melted. * a.
14	28°74	28°66	36°	48°	32°	49°	211	323	99	93	Calm	0	10	9	060	Lovely day.
15	28°47	28°49	45°	36°	35°	49°	267	179	89	85	SW 4	WSW 2	10	9	060	gp.
16	28°45	28°65	41°	40°	32°	45°	200	197	77	80	WSW 2	SE 1	2	0	—	Lovely day.
17	28°80	28°53	40°	37°	35°	49°	173	192	69	87	SW 3	SE 1	4	10	—	
18	28°06	28°48	40°	32°	32°	48°	207	170	84	90	W 2	S 1	2	1	070	Δ a.
19	28°68	28°77	32°	32°	30°	42°	166	184	90	100	Calm	0	3	10	110	Fine morning. * p. sudden fall of
20	28°31	28°47	37°	37°	31°	42°	167	156	76	71	NW 5	NNW 4	5	2	—	* n.
21	28°58	28°12	35°	31°	29°	39°	166	106	80	61	NNW 5	NNW 5	2	0	—	Squally day. gp.
22	29°06	28°83	34°	38°	27°	47°	148	180	75	78	W 4	N 5	9	1	—	Squally p.
23	29°06	29°06	44°	37°	37°	46°	166	236	71	81	WSW 2	SW 3	6	9	—	
24	29°41	29°24	48°	40°	38°	53°	202	179	60	72	NW 6	WNW 5	4	3	040	
25	29°10	29°31	38°	32°	31°	42°	149	129	63	71	NW 5	SE 1	0	8	—	
26	29°42	29°39	33°	24°	23°	35°	129	073	70	38	NNW 5	NNW 3	2	7	020	* showers during day.
27	29°22	29°08	21°	23°	19°	26°	066	054	58	44	N 4	NNW 5	10	0	—	* a.
28	29°26	29°33	21°	21°	20°	34°	067	059	41	32	N 2	Calm	0	3	—	U p.
Means	29°70	29°73	37°	36°	31°	44°	182	180	80°	81°	2°	2°	6°	4°	3°	260

## DURHAM.

Height above Mean Sea Level, 335 feet. Long. 1° 35' W. Lat. 54° 46' N.  
FEBRUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	10 a.m.	10 p.m.	10 a.	10 p.	Min.	Max.	10 a.	10 p.	10 a.	10 p.	10 a.m.	10 p.m.	10 a.	10 p.	10 a.	
1	ins.	ins.	47°	48°	36°	49°	in.	in.	%	%	SW 0°5	SSE 0°8	9	10	ins.	
2	29°823	29°893	47°7	48°3	36°0	49°1	°304	°299	91	90	SSE 2°5	SW 4°0	10	0	°048	
3	°808	°764	47°4	40°2	39°7	51°8	°322	°177	98	71	S 5°2	S 0°8	9	0	°220	
4	°812	29°807	41°7	38°2	35°3	48°7	°235	°202	89	88	WSW 4°2	SSW 2°5	0	8	—	
5	°931	30°164	40°2	38°8	34°3	42°9	°203	°207	82	88	SSW 3°9	W 1°0	8	1	—	
6	29°985	30°112	45°6	44°3	38°4	50°1	°255	°263	83	91	SW 4°2	SSW 2°7	10	10	°030	
7	30°025	29°872	46°8	50°1	41°5	51°9	°296	°328	93	91	W 0°5	SW 0°5	10	0	—	
8	29°953	30°067	47°5	39°7	38°5	51°0	°285	°198	88	80	W 3°5	SSW 2°7	3	9	—	gp.
9	30°042	29°966	43°3	42°3	37°7	45°0	°226	°226	84	84	W 2°5	SSW 2°6	9	8	°020	a.
10	29°898	°780	43°2	47°8	40°6	49°1	°226	°286	81	86	NNE 1°6	S 1°5	10	10	°223	
11	°761	°764	39°9	38°7	37°1	50°9	°244	°231	99	98	WNW 6°1	WSW 0°7	0	10	°350	
12	°478	°790	47°6	36°3	35°1	50°4	°249	°213	76	99	S 3°2	SW 2°4	10	0	°058	
13	°424	°500	43°3	41°5	36°1	49°0	°273	°229	98	88	W 1°5	W 1°7	10	0	°177	
14	°567	°781	44°5	39°4	38°8	47°3	°238	°220	81	91	S 0°9	SSW 3°8	8	10	—	
15	°795	°786	42°7	49°3	36°0	53°3	°272	°341	99	97	S 7°1	W 2°8	3	1	—	
16	°652	°531	49°8	42°2	40°6	53°1	°264	°243	74	90	W 2°8	WNW 2°0	9	0	—	
17	°566	°698	42°3	40°4	33°1	48°6	°224	°216	84	87	WNW 2°5	WSW 0°7	4	10	°009	
18	°851	°672	42°2	40°2	37°0	50°1	°209	°226	78	91	WSW 0°8	SSW 0°6	9	10	—	
19	°900	°846	47°5	41°1	39°5	51°2	°291	°212	90	82	WSW 2°6	SSE 2°5	1	10	°347	* gp. and before.
20	°692	°085	39°8	33°8	33°4	45°6	°204	°194	84	100	NW 2°9	WNW 2°9	4	7	°002	
21	°307	29°556	37°7	36°2	33°4	44°2	°190	°195	83	91	NNW 4°2	NNW 2°5	10	1	°001	
22	°824	30°075	36°7	33°0	32°9	39°9	°185	°107	85	89	NNW 1°7	NNW 2°8	10	8	°190	*
23	°974	29°767	32°3	35°4	29°2	41°2	°157	°266	85	99	NNW 2°3	W 1°2	9	9	—	
24	°961	°760	40°0	41°4	34°0	43°6	°213	°249	86	95	W 3°7	WNW 3°6	2	5	—	
25	°464	°300	49°6	41°8	40°7	53°8	°284	°223	80	84	NNW 5°5	NW 0°5	1	10	°087	6.30p.
26	°148	°835	43°3	36°8	36°2	47°0	°207	°184	74	85	NNE 1°5	NW 0°9	5	5	°070	*
27	°379	°734	33°1	24°4	24°3	40°3	°179	°110	95	85	NW 3°2	WNW 2°7	1	0	—	a.
28	29°789	29°445	27°6	23°2	21°3	32°2	°144	°088	96	66	NNW 5°4	WNW 0°8	0	0	—	
29	30°198	30°354	30°4	24°0	22°3	36°9	°124	°082	72	69						
Means	29°750	29°780	41°9	38°9	35°1	47°1	°232	°215	86°0	87°7	5°0	1°9	6°2	5°4	2°189	



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## WAKEFIELD.

Height above Mean Sea Level, 96 feet. Long 1° 30' W. Lat. 53° 41' N.  
FEBRUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	49°0	50°6	37°8	52°5	in.	in.	%	%	W	SW	9	—	ins.	No observations of Weather. Wind force, or 9 p.m. Cloud amount during February.
2	29°910	29°977	49°0	50°6	37°8	52°5	304	352	88	96	SSW	SW	10	—	030	
3	29°922	29°988	49°0	50°6	37°8	52°5	348	352	93	83	SSW	SW	10	—	030	
4	29°906	29°924	42°6	41°1	36°2	49°9	212	234	78	91	W	SSW	4	—	020	
5	29°908	29°928	40°1	39°1	39°1	53°0	196	217	79	91	SSW	SSW	8	—	030	
6	29°915	29°976	44°0	50°0	37°0	52°0	261	340	90	94	WSW	S	7	—	030	
7	29°911	29°978	49°0	50°6	37°8	52°5	331	338	93	86	SW	SSW	8	—	010	
8	29°913	29°978	51°2	46°2	45°5	53°0	345	298	92	96	W	W	10	—	—	
9	29°913	29°978	42°3	44°0	40°6	47°9	241	252	90	87	WSW	W	2	—	—	
10	29°928	29°905	42°2	49°4	42°1	49°4	238	327	89	93	WSW	W	5	—	049	
11	29°969	29°968	50°2	47°2	43°1	53°0	312	251	86	78	W	W	4	—	120	
12	29°953	29°914	49°0	47°4	43°1	51°7	288	279	83	86	W	W	8	—	100	
13	29°967	29°910	47°4	45°2	44°3	52°0	318	252	97	84	SSW	NW	10	—	—	
14	29°984	29°956	46°7	42°6	42°1	48°9	270	260	85	95	W	W	2	—	—	
15	29°977	29°984	47°2	52°2	40°8	54°0	321	333	99	85	SW	SW	10	—	—	
16	29°933	29°978	49°7	50°6	47°7	55°6	295	307	83	83	SSW	SW	8	—	020	
17	29°968	29°905	40°9	43°2	37°0	51°7	220	232	87	83	W	WNW	3	—	—	
18	29°947	29°938	43°4	43°2	41°0	50°9	250	253	89	90	W	SW	1	—	030	
19	29°986	29°969	48°2	49°2	38°0	53°0	290	295	87	85	SSW	SW	10	—	100	
20	29°934	29°973	38°4	39°1	36°0	49°7	208	225	90	94	SW	SW	1	—	250	
21	29°985	29°956	39°1	38°1	35°0	44°9	194	189	82	82	WNW	NW	8	—	010	
22	29°946	29°914	38°9	37°3	36°2	41°2	167	204	72	92	NNW	N	4	—	050	
23	29°959	29°908	33°3	39°9	31°2	46°7	152	193	80	79	WNW	NW	7	—	010	
24	29°901	29°968	38°2	42°2	37°9	45°1	229	235	99	88	NNW	NW	10	—	010	
25	29°982	29°948	48°2	47°0	41°4	51°1	303	253	91	79	WNW	WNW	8	—	030	
26	29°963	29°958	46°0	39°2	38°8	47°7	264	225	86	94	W	W	6	—	580	
27	29°933	29°982	34°1	31°0	31°0	39°8	170	149	86	85	NNW	N	8	—	040	
28	29°940	29°934	27°0	23°0	22°2	33°2	140	108	96	89	NW	NW	0	—	—	
Means	29°840	29°861	43°1	42°8	38°6	48°8	250	248	87.7	87.6	—	—	6.1	—	1°800	

## KELSTERN, LINCOLN.

Height above Mean Sea Level, 388 feet. Long. 0° 7' W. Lat. 53° 24' N.  
FEBRUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	29°916	29°913	43°2	44°2	35°1	50°1	279	288	100	99	SW	SW	10	9	—	∞ ga.
2	29°991	29°944	45°9	35°3	35°3	50°1	309	188	100	92	SW	SW	10	9	—	
3	29°910	29°961	36°8	41°3	33°0	46°0	195	251	90	97	SW	WSW	7	10	037	Very fine day.
4	29°914	29°922	35°4	32°5	32°5	43°1	191	180	92	98	W	Calm	0	0	—	
5	29°912	29°913	35°8	45°0	31°7	45°0	206	299	97	100	SW	WSW	1	9	10	Warm day.
6	29°917	29°943	46°4	48°3	44°1	50°9	306	325	96	97	WSW	WSW	2	7	8	
7	29°998	29°998	49°8	41°5	41°5	51°9	348	251	97	96	SW	NNW	1	10	0	during day.
8	29°954	29°969	37°3	38°0	34°3	47°1	217	210	97	92	W	W	2	0	5	
9	29°990	29°967	38°9	45°3	36°9	45°6	213	303	91	100	W	W	2	10	10	during day.
10	29°954	29°901	48°3	40°0	40°0	52°8	323	245	96	99	WNW	ESE	1	6	10	
11	29°929	29°907	46°7	42°6	39°6	49°8	304	260	96	95	W	NW	2	10	2	during day.
12	29°959	29°920	43°3	40°2	39°9	47°8	280	234	100	94	S	W	2	10	5	
13	29°948	29°938	41°2	38°0	38°0	45°9	252	229	97	100	WSW	WNW	1	9	1	during day.
14	29°907	29°929	41°1	46°8	34°1	55°1	258	301	100	94	SW	WSW	1	10	3	
15	29°972	29°952	45°6	44°9	42°1	49°7	289	294	95	99	WSW	SW	3	8	10	a.
16	29°967	29°950	37°7	38°2	34°8	46°5	206	210	91	92	W	NW	2	1	0	
17	29°973	29°944	37°7	38°5	35°7	47°1	214	223	94	96	WNW	NW	1	2	3	∞ ga.
18	29°908	29°920	42°5	41°9	36°6	51°2	265	266	97	100	SW	Calm	0	9	10	
19	29°938	29°935	39°0	37°1	34°4	44°6	216	207	91	94	W	WSW	2	0	10	during day.
20	29°934	29°914	35°6	34°0	33°8	42°4	208	185	100	95	NW	N	2	10	7	
21	29°956	29°976	35°0	35°1	32°5	40°8	187	200	92	98	NNW	NW	1	10	7	a. Squally during day.
22	29°949	29°968	31°3	34°3	30°9	36°9	151	198	87	100	NW	N	1	7	8	
23	29°953	29°953	35°1	35°0	31°8	42°8	204	199	100	98	NNW	W	1	6	9	during day.
24	29°948	29°946	46°3	42°5	34°5	51°7	299	263	96	97	NW	NW	3	7	4	
25	29°935	29°927	44°0	38°7	38°7	48°6	260	221	94	94	WNW	W	1	10	10	a. and p.
26	29°945	29°938	33°0	27°3	27°3	39°4	179	149	96	100	NNW	NW	1	10	4	
27	29°920	29°969	26°8	20°1	19°3	32°5	122	97.5	85	51	NW	NW	1	1	0	before ga.
28	29°930	29°930	25°9	29°5	18°9	39°3	90	123	65	76	NW	NW	1	0	9	
Means	29°829	29°861	39°5	38°4	34°5	46°2	235	228	94.0	94.4	1°9	1°4	6.8	5.9	2°615	

## FEBRUARY.

## BUXTON.

Height above Mean Sea Level, 987 feet. Long. 1° 54' W. Lat. 53° 14' N.  
FEBRUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.		
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.			
1	ins.	ins.	45°6	47°5	35°0	47°9	in.	in.	%	%	W	1	W	1	10	10	ins.	* a.
2	29°939	29°998	46°8	47°5	35°0	47°9	207	299	87	92	W	1	W	1	10	10	240	
3	29°978	29°947	46°8	38°6	37°8	49°3	318	174	98	75	SW	1	NW	7	10	10	400	
4	30°108	29°967	37°7	39°4	34°0	43°1	202	209	90	87	WSW	3	W	2	10	10	370	
5	29°984	30°315	36°9	35°2	33°9	40°9	183	179	84	87	NW	3	NW	1	8	3	060	
6	30°190	29°976	39°7	39°9	32°7	44°5	213	246	88	100	W	1	W	1	9	10	210	
7	*174	*092	46°4	48°1	38°5	48°9	292	302	93	90	W	3	W	3	10	10	137	
8	*052	*142	47°9	44°9	43°0	48°9	306	253	93	85	NW	4	NW	1	10	10	177	
9	*160	30°116	40°7	39°0	38°1	44°9	217	184	85	78	NW	1	W	4	8	10	055	
10	30°053	29°883	39°7	43°0	38°0	46°7	203	234	83	84	W	1	W	1	10	8	620	
11	29°826	*855	46°5	47°2	44°0	47°9	283	286	91	89	NW	2	NW	1	10	10	430	
12	*755	*841	42°9	43°2	40°2	47°2	250	225	91	81	NW	6	WNW	6	4	6	670	
13	*590	*609	45°7	41°9	40°2	47°3	268	233	88	89	W	1	W	2	10	10	130	
14	*709	*862	43°2	43°4	39°0	44°7	242	209	87	74	W	1	NW	2	8	10	150	
15	*927	*934	47°7	47°7	38°8	50°9	239	283	91	86	W	2	W	1	10	10	—	
16	*814	*677	45°5	46°7	43°0	50°9	268	276	88	87	W	2	W	4	3	10	220	
17	*758	29°809	36°1	39°9	33°4	47°0	191	200	90	82	W	3	NW	9	8	10	021	
18	29°938	30°090	38°9	42°9	37°9	43°8	217	252	92	91	NW	3	W	1	10	10	100	
19	30°000	29°732	43°9	37°1	33°4	46°1	264	197	92	89	W	3	W	2	10	10	210	
20	29°843	*310	36°5	35°1	33°0	40°2	176	182	82	89	W	2	W	1	6	10	775	
21	*372	29°592	34°9	33°3	32°4	39°3	176	171	86	90	NW	3	Calm	0	9	2	300	
22	29°890	30°086	33°9	34°4	31°9	38°7	144	164	74	82	N	4	NE	2	8	9	—	
23	30°095	29°747	31°5	36°1	28°3	37°7	138	200	78	95	NW	1	W	6	10	10	400	
24	29°992	*940	35°7	38°4	35°0	41°5	191	204	92	88	N	1	NW	1	10	10	220	
25	*620	*446	43°7	42°7	36°8	45°1	253	218	88	80	NW	1	NW	6	10	10	470	
26	*374	*366	39°9	33°1	30°0	43°4	216	153	88	81	N	5	NW	1	10	10	1430	
27	*334	29°727	31°9	31°9	30°0	36°4	143	159	78	88	N	1	N	3	8	10	100	
28	29°858	30°070	28°9	22°5	22°0	32°0	128	*089	80	76	N	2	NW	1	8	5	—	
29	30°248	30°420	26°1	22°4	20°0	31°7	*079	*069	57	60	N	1	Calm	0	2	0	—	
Means	29°880	29°887	39°8	39°1	35°9	45°8	*219	*209	86°2	84°8	*2°2		2°5	8°5	8°7	7°855		



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## UPPINGHAM.

Height above Mean Sea Level, 484 feet. Long. 0° 44' W. Lat. 52° 35' N.  
FEBRUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	47.4	45.9	36.4	48.8	in.	in.	91	97	NW 3	SW 2	10	10	ins.	
2	30.024	30.026	47.4	45.9	36.4	48.8	298	298	91	97	NW 3	SW 2	10	10	ins.	
3	30.011	29.962	47.7	41.8	41.3	51.3	324	198	98	76	SW 2	SW 4	10	10	0.04	
4	160	30.003	36.3	41.3	32.7	46.6	194	234	91	91	SW 3	SW 3	6	0	0.09	
5	059	299	36.2	36.6	34.7	44.3	187	180	88	83	NW 3	Calm	0	0	—	
6	261	201	38.6	45.9	32.6	46.3	217	296	93	96	SW 3	WSW 4	10	10	0.015	
7	230	113	46.1	47.7	44.1	51.3	296	307	95	93	SW 1	WSW 4	4	5	—	
8	044	135	51.6	43.9	43.2	52.5	338	266	88	93	W 5	NW 2	10	5	0.086	
9	176	30.140	39.2	35.7	35.6	46.2	224	178	93	84	NW 1	Calm	0	4	—	
10	30.056	29.933	38.4	46.8	33.8	48.6	214	289	93	91	SW 2	WSW 3	9	10	0.012	
11	29.797	906	49.4	47.8	45.0	51.2	310	320	89	96	WNW 4	WSW 2	10	10	0.110	
12	707	858	48.7	44.5	43.4	51.2	250	233	76	79	NW 5	SW 2	4	0	0.179	
13	700	695	44.1	41.8	41.6	50.3	278	229	96	87	SSW 2	SW 1	10	3	0.016	
14	690	854	43.3	41.0	40.0	47.7	263	244	94	95	SW 1	Calm	0	7	0.192	
15	917	955	48.7	48.5	37.4	54.7	328	287	96	84	WSW 1	SSW 2	5	7	—	
16	883	681	47.1	46.4	42.8	49.4	286	287	89	91	SSW 3	SSW 4	10	10	0.077	
17	748	29.828	37.0	39.1	34.4	47.3	186	194	85	82	WSW 2	W 2	2	8	—	
18	29.912	30.059	41.2	40.0	38.2	47.7	227	215	89	87	NW 3	NW 1	2	10	0.016	
19	30.042	29.935	43.4	45.0	39.3	49.9	258	292	91	98	NW 1	W 1	10	10	0.103	
20	29.878	441	38.3	37.8	36.0	45.3	198	200	86	89	W 1	S 2	0	10	0.217	
21	146	477	35.2	34.7	31.7	42.7	192	176	93	87	NNW 8	WNW 3	10	1	—	* a.
22	29.770	966	36.7	36.0	34.2	41.1	162	197	75	93	NNW 3	NW 4	1	6	—	* p.
23	30.066	712	32.6	37.4	29.4	37.8	155	221	84	99	NW 2	NW 5	2	8	0.043	
24	29.930	936	36.6	36.2	34.3	41.8	190	189	88	89	N 2	Calm	0	6	0.054	
25	646	513	43.6	46.2	35.6	47.7	274	248	97	80	WNW 3	WNW 3	10	10	0.075	
26	320	320	45.5	40.6	40.0	48.2	259	242	86	96	WNW 6	NW 1	10	10	0.477	
27	256	29.740	33.2	33.5	31.3	44.1	171	161	90	84	N 2	NNW 2	10	10	0.043	* a.
28	29.752	30.001	31.2	24.3	24.3	34.4	151	064	85	53	NW 4	NW 3	1	0	—	* a.
Means	29.867	29.894	40.9	40.5	36.3	46.6	234	226	88.9	87.0	2.8	2.2	6.2	6.5	1.798	

## OSCOTT.

Height above Mean Sea Level, 460 feet. Long. 1° 51' W. Lat. 52° 33' N.  
FEBRUARY 1877.

1	29.942	30.015	46.9	46.9	38.5	49.0	281	304	88	95	WSW 2	SSW 2	10	10	—	~ a. and p.
2	29.967	29.982	48.8	40.7	40.4	52.1	333	197	96	78	S 3	WSW 3	10	0	0.090	~ 10a. ~ till 2p. sp.
3	30.141	29.988	37.1	49.9	33.7	47.1	199	224	90	88	S 3-4	SSW 4	9	0	0.170	~ 10a. ~ a. and p.
4	090	30.305	36.0	34.0	33.6	46.6	184	176	87	99	W 3	W 2	0	0	—	~ 10a. ~
5	243	199	39.1	46.8	33.6	47.1	229	304	96	95	SSW 3	SW 4	9	10	0.020	~ 10a. ~
6	219	110	47.0	48.0	46.2	52.4	306	309	95	93	S 3	SW 4	10	0	—	~ 10a. ~
7	055	154	51.2	44.0	43.8	52.9	350	267	93	93	WSW 6	W 1	9	1	0.130	~ 10a. ~
8	200	30.146	41.9	38.0	37.5	47.1	213	188	81	82	W 3	W 2	9	1	—	~ 10a. ~
9	30.064	29.941	41.0	47.1	38.0	50.1	235	300	92	93	SSW 1-2	WSW 4	10	10	—	~ 10a. ~
10	29.846	919	49.8	48.1	46.3	55.7	315	294	88	88	w-ssw3	SSW 3	10	10	0.040	~ 10a. ~
11	751	872	47.5	44.8	43.8	53.2	263	257	81	87	WSW 5	WSW 3	3	10	0.150	~ 10a. ~
12	649	697	45.0	43.8	43.3	51.2	289	238	97	83	SSW 5	W 5	10	10	0.010	~ 10a. ~
13	702	859	45.0	41.7	41.5	46.8	273	258	91	97	SW 2	W 0-1	10	10	0.240	~ 10a. ~
14	933	952	49.3	49.3	41.5	54.2	284	279	81	79	WSW 4	SSW 3	10	10	—	~ 10a. ~
15	865	618	47.5	47.9	44.1	53.5	294	313	91	95	s-ssw 3	S 6	10	10	0.090	~ 10a. ~
16	759	29.847	37.7	40.1	33.3	45.6	193	208	85	84	SSW 3	W 3-4	1	10	0.010	~ 10a. ~
17	29.963	30.081	40.8	42.7	39.3	46.7	235	239	93	87	W 3	S 0-1	9	10	—	~ 10a. ~
18	30.042	29.933	45.1	43.0	41.3	50.1	274	259	91	94	SW 3	NW 1-2	9	10	0.080	~ 10a. ~
19	29.892	378	37.9	38.5	34.5	47.2	177	223	78	96	WSW 4	SSW 7	0	10	0.220	~ 10a. ~
20	310	29.550	38.0	36.0	34.1	44.0	176	188	77	88	NNW 6-7	NNW 5	9	1	0.010	~ 10a. ~
21	29.851	30.012	36.8	37.0	34.1	40.9	161	182	73	83	NNW 5	N 2	0	10	—	~ 10a. ~
22	30.089	29.752	33.0	39.2	29.6	39.6	147	224	78	93	WNW 2	N 3	10	10	0.090	~ 10a. ~
23	29.073	948	37.8	39.1	35.4	43.5	194	202	86	85	N 3	N 1-2	9	10	0.020	~ 10a. ~
24	673	540	44.3	46.0	39.0	48.3	285	250	98	81	W 4	W 4	10	10	0.010	~ 10a. ~
25	350	314	47.8	44.5	43.3	51.6	267	247	81	84	W 7-8	W 5	9	9	0.370	~ 10a. ~
26	349	29.769	32.0	33.1	31.4	44.5	182	168	100	89	NNW 2	W 2	10	10	0.100	~ 10a. ~
27	29.825	30.051	31.1	25.0	24.7	34.0	110	074	63	55	NNW 3	NW 2	0	1	—	~ 10a. ~
28	30.241	30.398	28.0	26.0	23.0	36.0	076	086	51	62	NW 3	NW 1-2	0	0	—	~ 10a. ~
Means	29.892	29.905	41.6	41.2	37.5	47.6	233	231	85.8	86.3	3.5	3.0	7.3	6.9	1.850	

## FEBRUARY.

## CHURCHSTOKE.

Height above Mean Sea Level, 548 feet. Long. 3° 5' W. Lat. 52° 31' N.  
FEBRUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.	
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.		
1	ins.	ins.	30°02.5	40°8	49°9	45°5	52°1	in.	in.	88	98	SW 0°5	NW 2	9	5	ins.	
2	29°954	30°025	40°8	49°9	45°5	52°1	279	349	88	98	SSW 3	SW 2	9	5	0°003		
3	29°913	29°992	50°4	40°5	39°6	52°8	339	188	93	75	SSW 3	SW 2	9	0	0°147		
4	30°080	29°982	40°8	42°6	35°9	47°9	208	228	82	84	SSW 3	SW 2	7	4	0°173		
5	129	30°337	37°1	39°9	35°7	44°4	190	210	86	86	W 1	Calm	0	3	—		
6	261	227	43°7	48°1	39°0	49°7	249	306	87	91	WSW 1	SW 1	6	9	0°026		
7	220	119	49°3	49°9	46°8	52°2	323	294	92	83	SW 1	SSW 1	7	1	0°121		
8	087	186	50°2	45°1	43°2	53°2	344	272	96	90	SW 2	WSW 1	10	10	0°169		
9	238	30°166	39°8	40°9	37°0	46°5	209	195	86	77	WNW 0°5	Calm	0	6	—		
10	30°061	29°958	42°8	47°7	38°0	49°2	256	306	93	83	Calm	0	10	10	0°026		
11	29°886	951	49°3	48°1	47°1	50°9	325	287	93	86	WNW 2	WSW 2	10	10	0°025		
12	809	898	45°9	45°5	45°0	50°2	255	264	84	87	WNW 2	W 1	4	1	0°179		
13	628	734	48°9	44°9	44°1	52°0	318	248	93	84	SSW 3	SW 1	10	10	0°040		
14	727	855	45°8	42°8	42°0	47°1	264	275	86	100	W 1	SW 1	10	6	0°194		
15	957	965	48°4	49°9	42°8	55°1	258	296	76	83	WSW 3	SW 1	6	9	—		
16	819	654	40°0	47°3	38°2	53°6	214	293	87	90	SW 3	SW 3	2	2	0°160	Squally.	
17	29°812	29°905	42°8	42°3	33°0	50°1	225	202	82	75	NW 2	N 4	5	3	—	☉	
18	30°017	30°103	41°8	44°2	39°0	46°9	225	243	85	84	WNW 1	WSW 1	6	10	—	☉	
19	30°051	29°993	46°8	41°1	41°0	50°1	277	236	87	92	SSW 0°5	WSW 0°5	9	3	0°074	☉	
20	29°911	305	37°8	41°3	33°0	44°1	190	230	84	89	SW 1	NW 5	1	10	0°650	☉ ☽ 5 p.	
21	492	29°675	39°7	37°3	31°2	44°1	186	186	76	84	NW 5	NW 4	9	3	0°105	☉ ☽ p. Bitterly cold.	
22	29°944	30°110	38°1	36°9	36°0	39°1	171	185	73	85	NNW 3	NE 1	10	6	—	☉ ☽ before ga. ☉ ga. ☉	
23	30°135	29°831	34°4	40°8	30°0	43°5	151	207	75	81	NW 1	NW 2	5	5	0°010	☉ ☽	
24	30°039	30°005	38°8	41°3	37°0	45°1	198	230	84	89	NW 1	NW 2	6	2	—		
25	29°732	29°588	45°3	45°4	40°2	50°1	270	268	89	89	W 3	W 6	10	8	—		
26	437	340	47°3	43°8	42°0	48°6	293	272	90	95	SW 5	NW 5	8	4	0°150		
27	461	29°859	34°6	31°9	31°9	45°1	186	180	93	100	W 1	NNW 2	18	3	0°080	☉ ☽ 1 in. deep ga. ☉ ☽	
28	29°915	30°109	33°4	27°4	26°8	39°1	181	105	95	71	N 2	N 4	5	5	0°027	☉ ☽ * A. Short * storms during day	
29	30°300	30°415	31°6	26°4	25°3	39°1	145	127	80	90	NW 2	NNW 3	3	2	—		
Means	29°929	29°939	42°6	42°3	38°0	47°9	240	239	86°3	86°3	1°9	2°1	6°8	5°3	2°359		



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## AUDLEY END, ESSEX.

Height above Mean Sea Level, 154 feet. Long. 0° 13' E. Lat. 52° 1' N.

FEBRUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	49.3	47.5	38.3	50.4	ins.	ins.	92	94	SW 1	SW 1	10	0	ins.	
2	30.073	30.059	49.5	46.1	45.4	51.2	321	306	92	94	SW 1	W 2	10	0	0.010	
3	30.234	30.200	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	p.
4	30.291	30.257	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
5	30.321	30.287	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
6	30.384	30.350	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
7	30.408	30.374	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
8	30.416	30.382	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
9	30.408	30.374	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
10	30.387	30.353	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
11	30.380	30.346	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
12	30.380	30.346	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
13	30.373	30.339	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
14	30.378	30.344	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
15	30.399	30.365	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
16	30.416	30.382	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
17	30.416	30.382	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
18	30.401	30.367	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
19	30.398	30.364	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
20	30.398	30.364	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
21	30.398	30.364	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
22	30.398	30.364	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
23	30.398	30.364	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
24	30.398	30.364	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
25	30.398	30.364	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
26	30.398	30.364	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
27	30.398	30.364	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
28	30.398	30.364	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	
Means	30.398	30.364	49.5	46.1	45.4	51.2	344	323	97	75	SW 1	W 2	10	0	0.040	

## CARMARTHEN.

Height above Mean Sea Level, 188 feet. Long. 4° 18' W. Lat. 51° 52' N.

FEBRUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	30.005	30.037	47.8	49.1	46.2	51.3	330	349	98	100	SW 1	SW 1	10	10	480	
2	30.007	30.063	49.8	49.6	39.6	52.1	358	218	100	90	S 3	Calm	0	10	0	
3	30.120	30.133	46.7	41.9	35.6	49.9	276	251	87	95	SW 3	SW 1	10	10	0	
4	30.195	30.254	42.9	36.4	34.9	48.8	224	215	81	100	NW 1	Calm	0	0	0	
5	30.260	30.263	46.9	48.4	34.6	50.4	309	340	97	100	SW 2	SW 1	10	10	0	
6	30.243	30.243	49.2	48.4	47.4	51.4	351	340	100	100	SW 1	SW 1	10	10	0	
7	30.256	30.243	51.4	45.3	45.0	53.6	377	286	98	95	SW 2	Calm	0	10	10	
8	30.257	30.257	41.7	38.6	38.3	53.0	264	230	100	97	W 1	Calm	0	8	10	
9	30.093	30.029	49.6	49.6	37.9	52.4	351	348	98	97	W 1	SW 2	10	10	0	
10	30.062	30.067	49.8	48.8	48.5	54.0	358	307	100	89	W 2	W 2	10	10	0	
11	30.100	30.055	49.8	47.4	46.5	54.2	307	310	86	98	W 1	W 1	0	6	470	
12	30.079	30.068	51.0	46.9	46.3	52.4	374	322	100	100	SW 3	SW 1	10	10	0	
13	30.059	30.044	48.2	50.8	45.0	53.7	338	371	100	100	Calm	SW 2	10	10	0	
14	30.090	30.082	50.5	49.5	49.1	55.6	362	355	98	100	SW 1	SW 1	10	10	0	
15	30.119	30.126	50.2	40.7	40.1	55.9	324	247	90	97	SW 2	SW 1	10	10	0	
16	30.148	30.162	44.9	43.4	35.1	48.2	251	244	85	87	NW 1	W 2	1	8	0	
17	30.079	30.122	45.7	44.9	42.2	51.2	259	298	85	100	NW 1	W 1	7	7	0	
18	30.083	30.095	47.4	43.7	42.6	50.2	325	267	98	97	W 1	NW 1	10	7	0	
19	30.051	30.051	46.4	43.9	47.2	50.2	230	289	87	92	W 1	W 1	6	1	8	
20	30.071	30.066	42.9	40.5	38.6	48.6	216	223	79	89	N 4	NW 2	6	8	0	
21	30.074	30.087	38.4	36.7	36.4	45.2	195	190	85	88	N 2	N 1	8	0	0	
22	30.154	30.154	42.4	31.9	46.0	46.0	201	237	88	88	N 1	N 1	3	10	5	
23	30.044	30.044	43.7	44.9	40.6	49.6	239	290	83	98	N 3	N 1	7	8	0	
24	30.114	30.114	46.4	48.2	43.9	51.6	296	293	94	88	NW 3	NW 2	10	5	0	
25	30.157	30.157	48.8	46.2	45.6	50.4	299	285	87	92	W 4	W 2	10	7	0	
26	30.179	30.185	40.4	36.3	34.2	48.9	199	195	80	91	N 3	NW 1	2	2	0	
27	30.110	30.112	40.2	34.1	31.7	44.3	183	184	86	94	NW 1	N 1	9	9	0	
28	30.288	30.288	35.8	30.3	30.0	42.3	110	134	100	79	N 1	Calm	0	10	0	
Means	30.068	30.072	45.7	43.5	40.1	50.4	287	272	91.8	94.3	1.8	1.3	7.8	7.1	4.250	

## MARLBOROUGH, WILTS.

Height above Mean Sea Level, 471 feet. Long. 1° 43' W. Lat. 51° 25' N.

FEBRUARY 1877.

Day.	Bar. meter.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.		
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.			
1	ins.	ins.	°	°	°	°	in.	in.	%	%	W	0.3	W	0.3	10	10	ins.	°08
2	30.023	30.100	45.9	46.8	41.3	49.1	°278	°313	91	98	SSW	0.6	W	0.6	10	0	°145	
3	°070	°082	48.7	41.4	41.2	52.0	°336	°223	97	86	SSW	0.3	W	0.6	6	10	°100	[a.
4	°097	°097	37.9	43.5	35.4	48.8	°204	°258	90	91	NW	1.4	W	0.1	0	0		
5	°168	°372	37.7	35.0	34.8	47.6	°208	°191	92	94	SW	0.3	SW	0.6	10	10	°016	[p a.
6	°350	°316	39.7	46.9	32.8	48.1	°224	°295	92	93	SW	0.3	W	0.6	10	10	°010	
7	°314	°240	47.7	49.3	46.6	51.6	°316	°318	96	91	W	1.8	W	0.1	9	10	°125	
8	°245	°209	51.2	48.7	47.1	56.2	°335	°331	89	96	W	0.1	W	0.1	10	9		[a.
9	°209	°209	39.7	42.3	38.4	50.2	°239	°243	97	91	SW	0.1	SW	1.2	10	10		[a.
10	30.128	°055	43.5	47.2	40.3	50.4	°267	°296	94	92	NW	2.2	NW	3.4	10	10	°030	
11	30.047	30.026	48.6	47.7	47.1	49.8	°317	°297	93	90	NW	0.8	NW	0.1	4	4	°110	
12	°881	°088	48.2	44.0	44.0	53.8	°297	°267	89	93	SW	0.6	SW	0.8	10	10	°117	
13	°788	°813	46.7	45.5	44.0	52.1	°299	°272	94	90	W	0.3	NW	0.1	10	10	°100	[3p.
14	30.088	29.901	46.6	46.6	44.1	51.5	°290	°311	95	97	W	0.8	W	0.6	9	3		
15	30.048	30.045	49.0	47.9	46.6	53.7	°273	°299	78	91	SSW	0.3	SW	1.2	10	10	°080	
16	29.951	29.744	46.9	47.7	45.3	50.2	°287	°304	91	92	W	0.3	W	0.2	0	0		[p
17	29.856	29.950	37.8	36.3	34.3	49.8	°205	°198	91	93	W	0.4	W	0.1	6	10		
18	30.034	30.140	41.7	42.3	36.3	51.5	°220	°233	84	87	SW	0.1	SW	0.3	9	10	°106	
19	30.115	29.992	44.4	45.7	41.7	48.1	°274	°286	94	94	W	0.3	SW	1.2	2	10	°358	[a. Δ 2.30p.
20	29.962	°588	39.6	40.6	36.7	47.7	°199	°222	82	88	NW	3.4	NW	1.2	9	9	°040	[a. Δ a. and p.
21	°338	°283	39.6	36.3	35.3	46.3	°189	°185	78	87	NW	2.2	NW	0.8	2	10		[a.
22	29.857	30.010	37.7	36.3	36.1	43.9	°176	°173	77	81	NW	0.1	NW	0.6	1	9	°095	* p.
23	30.125	29.754	34.6	37.3	31.3	43.1	°160	°211	79	95	NW	0.3	Calm	0	10	10	°008	
24	29.970	30.027	37.3	34.7	33.6	42.3	°195	°186	88	93	W	0.6	NW	1.0	7	9	°084	[7.30p.
25	°770	29.627	42.9	45.7	34.5	48.7	°250	°280	91	92	W	7.4	SW	4.8	9	9	°004	[a.
26	°482	°433	47.3	44.7	43.2	49.9	°283	°249	88	84	W	7.4	Calm	0	9	1	°000	[a. * 9a.
27	°260	29.840	39.7	30.6	45.3	°208	°143	85	84	W	1.2	W	0.3	7	2	°006	[* 0 a.	
28	29.857	30.090	36.0	27.8	27.7	41.4	°174	°146	82	94	NW	0.6	Calm	0	1	1	°001	[9a.
29	30.258	30.399	32.1	27.9	24.7	38.2	°152	°152	84	100								
Means	29.960	29.986	42.5	41.7	38.4	48.6	°245	°245	88.7	91.3	1.2		0.7	7.1	7.4	1.608		



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## RAMSGATE.

Height above Mean Sea Level, 105 feet. Long. 1° 25' E. Lat. 51° 20' N.

FEBRUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	47°	46°	39°	50°	ins.	ins.	98	96	W 2	S 1	10	10	ins.	
2	30°134	30°137	48°	47°	45°	49°	30°136	30°137	98	94	SW 1	SW 7	10	10	0.020	
3	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
4	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
5	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
6	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
7	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
8	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
9	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
10	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
11	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
12	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
13	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
14	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
15	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
16	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
17	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
18	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
19	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
20	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
21	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
22	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
23	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
24	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
25	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
26	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
27	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
28	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	
Means	30°128	30°123	48°	46°	35°	49°	30°127	30°127	94	90	SW 2	SW 7	10	10	0.020	

## HASTINGS.

Height above Mean Sea Level, 172 feet. Long. 0° 38' E. Lat. 50° 52' N.

FEBRUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	30°128	30°128	47°	46°	42°	49°	30°128	30°128	98	97	WNW 2	WSW 2	10	10	0.015	
2	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
3	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
4	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
5	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
6	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
7	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
8	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
9	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
10	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
11	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
12	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
13	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
14	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
15	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
16	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
17	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
18	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
19	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
20	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
21	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
22	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
23	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
24	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
25	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
26	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
27	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
28	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	
Means	30°144	30°144	47°	46°	45°	48°	30°144	30°144	99	85	SW 2	WNW 6	10	10	0.115	

## DARTMOOR.

Height above Mean Sea Level, 1,372 feet. Long. 3° 59' W. Lat. 50° 33' N.

FEBRUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.	
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.		
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.		
1	30°121	30°211	43°8	45°8	36°5	46°0	*286	*308	100	100	W	3	W	1	10	10	ins. 240
2	*105	*223	45°6	36°8	36°2	47°4	*306	*181	100	83	SW	7	SW	4	10	2	*460
3	*320	*185	38°0	40°0	32°5	43°6	*201	*238	88	97	SW	2	SW	5	8	0	*250
4	*310	*472	36°6	36°6	34°8	46°6	*177	*198	83	91	NW	4	Caln	0	3	5	*020
5	*410	*384	41°0	45°0	34°8	45°0	*248	*299	97	100	W	1	SW	4	10	10	*430
6	*386	*188	46°8	46°8	43°0	47°2	*321	*321	100	100	SW	4	SW	3	10	10	*160
7	*338	*205	46°6	45°6	45°0	49°6	*294	*306	93	100	W	1	W	4	7	10	*240
8	*337	*241	39°6	43°0	38°8	46°2	*238	*277	97	100	NW	3	Caln	0	7	0	*470
9	*231	*178	45°8	44°2	41°0	46°0	*308	*290	100	100	NW	4	W	5	10	10	*120
10	*134	*106	45°6	43°4	42°4	47°6	*296	*250	95	89	W	5	W	5	10	10	*300
11	30°031	30°109	43°2	42°6	41°5	47°8	*274	*273	98	100	NW	5	W	6	5	10	*300
12	29°852	29°943	46°6	43°6	41°5	48°6	*318	*270	100	95	SW	5	W	4	10	10	1130
13	29°884	30°018	48°6	47°6	42°2	48°8	*343	*330	100	100	W	5	W	6	10	10	*230
14	30°110	30°116	46°2	46°2	44°2	48°4	*313	*313	100	100	W	4	W	4	10	10	*010
15	29°952	29°789	44°8	46°6	43°0	47°0	*281	*318	98	100	SW	4	SW	4	10	10	*310
16	29°965	30°088	37°0	35°2	33°6	46°6	*192	*193	88	94	NW	3	Caln	0	6	5	*100
17	30°156	*248	39°6	40°2	34°5	42°8	*207	*232	85	93	NW	3	W	3	6	10	*030
18	*202	30°090	41°6	41°0	39°0	44°0	*263	*257	100	100	W	4	W	5	10	10	*500
19	30°055	29°697	36°2	39°4	33°5	41°0	*182	*241	86	100	NW	2	SW	5	6	10	*470
20	29°649	29°764	36°6	31°6	31°0	42°0	*175	*178	81	100	N	7	N	9	8	5	*250
21	30°022	30°098	32°2	33°0	30°5	37°0	*182	*151	98	80	N	5	N	3	10	4	*080
22	*217	29°917	34°0	38°6	29°0	38°6	*156	*222	79	95	NE	1	N	6	0	10	*190
23	30°057	30°079	30°0	37°6	33°6	41°4	*107	*209	79	93	NE	4	NE	3	2	10	*070
24	29°936	*836	40°6	43°6	36°8	44°2	*244	*274	96	96	NW	4	NW	7	10	10	*310
25	*728	30°681	43°6	41°2	40°4	43°8	*272	*235	96	92	NW	6	NW	8	10	10	*160
26	29°474	29°978	36°2	32°6	32°0	46°6	*182	*125	89	67	NW	7	N	2	10	0	—
27	30°025	30°182	32°2	31°0	30°0	38°8	*169	*136	89	77	N	4	N	4	5	8	*030
28	30°392	30°464	27°6	27°6	26°0	35°6	*151	*151	100	100	N	2	N	1	5	0	—
Means	30°086	30°097	40°5	40°2	36°7	44°6	*241	*242	93°4	94°4	3°9		4°0	7°8	7°5	6°860	



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## ST. AUBIN'S, JERSEY.

Height above Mean Sea Level, 139 feet. Long. 2° 10' W. Lat. 49° 11' N.

FEBRUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	48.5	49.4	47.3	52.8	ins.	ins.	96	97	NW 4	SW 2	10	10	ins.	
2	30.153	30.225	48.4	46.7	45.5	51.5	30.133	30.144	96	97	SSW 2	W 3	8	0	0.040	
3	30.218	30.232	48.4	46.7	45.5	51.5	30.133	30.144	96	97	SSW 2	W 3	8	0	0.040	
4	30.293	30.290	47.8	47.2	42.5	50.0	30.128	30.180	66	87	SW 3	SW 5	9	2	0.206	
5	30.471	30.468	48.7	41.2	40.2	51.7	30.268	30.213	78	83	W 3	WNW 1	9	0	0.002	
6	30.458	30.458	46.5	47.3	39.7	48.9	30.232	30.294	74	91	SW 3	SW 2	10	5	—	
7	30.395	30.378	51.5	50.3	48.8	54.0	30.367	30.321	97	88	WSW 4	SW 3	9	9	0.018	
8	30.319	30.281	49.3	50.8	46.4	52.8	30.318	30.365	91	98	NW 1	W 3	9	10	0.052	
9	30.291	30.268	50.9	50.2	47.7	55.2	30.348	30.310	93	86	W 3	W 5	10	10	0.022	
10	30.176	30.201	51.8	50.3	47.3	53.7	30.338	30.326	87	90	W 4	W 3	7	7	0.060	
11	30.091	30.155	49.8	48.5	46.6	55.0	30.339	30.319	95	94	W 6	W 3	10	10	0.005	
12	30.040	30.092	49.6	50.3	47.2	52.2	30.334	30.386	92	92	SW 4	SW 4	10	10	0.302	
13	30.072	30.090	52.4	51.0	49.5	52.5	30.382	30.348	97	93	W 6	SW 4	10	10	0.018	
14	30.177	30.157	51.3	49.0	48.0	54.8	30.354	30.340	94	98	SW 3	Calm	0	0	—	
15	30.039	30.089	49.3	50.7	48.2	52.3	30.304	30.329	87	89	S 1	SW 3	10	2	0.070	
16	30.074	30.049	47.3	42.2	40.2	53.0	30.230	30.243	71	90	NW 2	WbyN 1	3	2	0.007	
17	30.141	30.233	46.7	48.2	40.8	51.0	30.214	30.261	68	78	NW 3	W 2	10	10	0.013	
18	30.250	30.141	47.1	48.3	46.0	49.8	30.312	30.316	96	94	SW 3	SW 4	10	10	0.193	
19	30.047	30.054	44.9	45.7	42.1	50.7	30.253	30.275	85	90	NW 2	SW 6	10	10	0.256	
20	30.581	30.657	44.3	42.7	38.2	49.9	30.231	30.179	79	65	NW 7	NW 5	10	5	0.138	
21	30.914	30.920	43.0	41.2	40.3	46.2	30.177	30.163	63	63	N by E 4	N 3	5	1	0.004	
22	30.133	30.891	41.7	42.0	38.1	45.2	30.188	30.225	72	85	NE 2	NW 3	9	10	0.230	
23	30.926	30.908	42.2	43.5	39.3	44.7	30.197	30.201	74	72	NE 5	NE 1	10	10	0.096	
24	30.938	30.826	46.4	49.1	40.6	50.0	30.287	30.334	91	96	Calm	W 2	10	10	0.020	
25	30.768	30.728	49.8	49.2	47.0	54.8	30.312	30.261	87	74	WbyN 4	WbyN 5	10	10	0.180	
26	30.516	30.915	47.9	40.2	39.1	49.2	30.241	30.163	73	65	W 6	N 2	10	4	0.170	
27	30.001	30.122	43.6	39.7	34.8	49.5	30.222	30.158	78	65	NW 3	N 3	5	8	0.030	
28	30.305	30.410	37.7	36.6	34.2	41.8	30.144	30.145	64	67	N 3	N 1	9	5	—	
Means	30.106	30.123	47.4	46.5	43.3	50.9	30.276	30.273	83.1	84.5	3.4	2.9	9.0	6.8	2.163	

NOTE.—The Observer has noticed the high average of his barometer observations, but is unable to offer any explanation.

## MARKREE CASTLE.

Height above Mean Sea Level, 131 feet. Long. 8° 27' W. Lat. 54° 11' N.

FEBRUARY 1877.

1	29.752	29.860	40.0	44.1	43.8	53.4	29.730	29.773	92	94	SW 2	S 0.5	10	1	0.055	
2	30.507	30.816	45.1	35.2	34.4	50.7	30.281	30.169	93	82	SE 4	WNW 2	10	1	0.620	
3	29.803	29.835	38.1	35.1	33.3	42.3	29.809	29.813	91	89	WNW 4	WNW 2	10	3	0.190	
4	30.120	30.133	36.6	42.8	33.0	47.5	30.192	30.242	89	88	WNW 1	SW 3	6	10	0.056	
5	30.045	30.125	46.8	46.1	42.0	53.6	30.306	30.293	95	94	WSW 1	SW 2	10	8	0.004	
6	30.009	30.020	49.3	51.1	43.4	54.2	30.323	30.352	92	93	NW 3	WSW 3	10	10	0.202	
7	30.044	30.185	47.1	42.1	41.0	52.1	30.283	30.220	88	83	WSW 2	NW 3	8	1	—	
8	30.171	30.106	42.1	43.1	36.7	49.6	30.230	30.220	86	79	NW 2	SW 2	6	10	—	
9	29.972	29.851	41.6	49.7	37.0	50.4	30.257	30.338	97	95	SW 1	WSW 2	10	10	0.226	
10	30.805	30.690	48.4	49.1	47.6	52.4	30.335	30.309	98	89	SW 1	SW 3	10	10	0.156	
11	30.788	30.721	48.4	46.9	44.2	53.0	30.279	30.288	82	91	SW 3	WSW 3	4	10	0.136	
12	30.571	30.592	44.1	42.4	41.8	50.4	30.233	30.245	80	91	WSW 2	SSW 2	8	2	0.112	
13	30.666	30.767	44.1	44.0	41.7	46.0	30.276	30.274	95	95	S 0.5	SE 2	10	10	0.223	
14	30.729	30.700	51.2	50.7	43.1	53.1	30.350	30.314	93	85	SE 3	S 3	10	10	—	
15	30.498	30.672	48.1	35.2	34.5	51.4	30.306	30.188	91	91	SE 4	WNW 2	9	4	0.374	
16	29.811	29.983	43.9	43.9	34.5	47.4	30.214	30.217	74	76	WNW 4	NW 3	8	4	0.125	
17	30.095	30.024	45.2	47.3	42.8	50.2	30.280	30.302	93	93	SW 2	WSW 1	7	10	0.068	
18	30.021	29.926	42.2	37.1	36.5	48.3	30.235	30.194	88	88	WSW 1	NW 1	7	5	0.142	
19	29.801	29.436	38.6	41.2	33.2	46.3	30.207	30.184	89	71	SW 2	NW 6	8	8	0.368	
20	29.690	29.943	42.1	41.2	36.0	44.5	30.204	30.184	76	71	WNW 5	NW 4	8	8	0.300	
21	30.121	30.242	38.2	37.1	35.6	42.3	30.216	30.188	94	85	N 0.5	N 0.5	10	10	0.046	
22	30.170	30.118	43.1	43.8	34.2	48.1	30.265	30.215	95	74	NW 2	NW 4	10	8	0.044	
23	30.192	30.032	44.1	45.1	40.4	50.4	30.271	30.276	93	92	NW 1	NW 3	10	4	0.050	
24	29.780	29.660	48.4	47.5	44.0	50.4	30.322	30.234	95	72	NNW 2	NW 4	10	10	0.160	
25	30.474	30.229	45.6	42.3	41.8	50.2	30.299	30.248	98	92	WNW 4	WNW 2	10	10	0.572	
26	29.667	29.904	40.2	32.9	30.9	44.3	30.192	30.174	77	93	NNW 1	N 0.5	2	5	0.092	
27	30.024	30.215	33.9	32.6	30.4	41.0	30.177	30.151	90	82	NW 1	N 0.5	10	10	0.025	
28	30.337	30.316	34.1	32.1	26.9	41.4	30.177	30.142	89	78	N 1	SE 3	7	4	—	
Means	29.885	29.893	43.6	42.2	38.0	48.7	30.259	30.236	89.8	85.9	2.1	2.4	8.5	7.0	4.349	

## FEBRUARY.

## DUBLIN.

Height above Mean Sea Level, 51 feet. Long. 6° 15' W. Lat. 53° 20' N.

FEBRUARY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	49.9	52.1	48.2	54.7	ins.	ins.	96	92	WhyS 3	WSW 2	8	10	ins.	[much ▲
2	29.883	29.909	49.9	37.9	37.7	55.6	29.929	29.900	93	83	S 2	W 5	9	2	0.081	from Noon, with heavy squalls and
3	29.727	29.952	49.0	40.0	36.4	46.2	29.931	29.907	79	84	WSW 5	W 5	6	2	0.180	showers p. from Wd. p.
4	29.894	29.925	44.1	42.9	36.0	45.7	29.987	29.922	81	81	W 3	W 5	1	10	—	
5	30.142	30.239	38.1	42.9	36.0	45.7	30.187	30.222	85	93	WSW 3	WSW 2	8	10	0.030	
6	30.122	30.199	48.0	49.1	42.2	52.7	30.281	30.324	85	93	SW 4	SW 5	9	10	0.012	Singularly warm p.
7	30.120	30.010	50.4	54.1	48.9	56.3	30.330	30.356	90	84	SW 4	SW 5	9	10	0.012	
8	30.086	30.204	49.9	45.2	45.1	54.6	30.320	30.275	90	92	WhyS 2	W 3	10	5	—	
9	30.165	30.165	42.9	44.9	39.6	47.3	30.220	30.217	80	73	W 3	W 3	8	10	—	
10	30.048	29.896	44.1	51.1	40.3	53.4	30.278	30.320	96	84	W 1	WhyN 4	10	7	0.070	~ a.
11	29.904	30.830	51.4	50.5	50.1	53.3	30.353	30.279	93	76	W 6	W 4	10	10	0.021	all day.
12	30.803	30.864	48.9	48.1	46.0	53.3	30.279	30.264	81	79	WNW 5	W 3	6	9	0.098	
13	30.601	30.654	46.4	46.7	46.0	51.7	30.264	30.259	84	82	WNW 4	W 4	7	4	0.032	early morning.
14	30.694	30.825	46.8	45.3	43.3	47.3	30.275	30.296	86	98	WhyS 3	ESE 2	10	10	0.421	~ Noon.
15	30.848	30.829	52.7	52.2	45.1	55.3	30.325	30.318	81	81	WSW 3	SW 4	9	5	—	
16	30.046	29.905	40.1	40.1	39.9	57.2	30.268	30.193	74	77	SW 2	W 3	8	0	0.040	Wind veered in a strong squall with
17	29.815	29.985	39.7	41.4	36.6	46.5	29.903	29.916	83	84	WNW 4	WNW 2	6	0	0.010	☉ 2 sp. Temp. fell 17° in a few hours.
18	29.098	30.083	44.3	47.8	39.3	48.4	29.958	29.974	88	83	WhyN 2	W 4	10	6	0.016	
19	30.046	29.966	46.0	42.2	40.9	48.5	29.978	29.923	90	84	W 3	W 4	9	8	—	
20	29.891	30.405	38.2	40.4	36.2	44.7	29.990	29.966	83	79	WhyN 4	WNW 7	1	3	0.166	☉ 2 6p.
21	29.637	29.842	41.8	38.3	30.9	42.3	29.995	29.989	74	82	WNW 5	NW 6	7	0	0.032	☉ a. ☉ ☉ ☉ showers with
22	30.076	30.201	37.1	38.1	35.0	42.6	29.970	29.961	81	69	NW 3	N 2	3	8	—	[at times.
23	30.192	30.044	36.9	42.1	35.7	45.7	29.987	29.917	86	81	WNW 3	NW 3	6	6	0.029	☉ a. ☉ 13op. -3p. Bar. 29.98 at 3p.
24	30.154	30.031	42.2	45.9	38.3	49.6	29.910	29.971	83	89	NW 3	WNW 4	7	9	—	~ a.
25	29.781	29.644	46.9	47.7	44.0	52.5	29.999	29.950	94	76	WhyS 4	WNW 5	10	8	0.054	p.
26	29.478	29.907	47.3	45.7	45.3	50.1	29.988	29.947	92	81	WhyN 5	WhyN 6	9	8	0.010	a. and p. ☉ p.
27	29.622	29.908	36.5	35.6	34.3	46.2	29.974	29.978	80	85	NNW 2	NW 2	0	3	0.030	Wind veered to NNW with squalls and
28	29.996	30.196	34.0	31.7	37.5	37.5	29.942	29.928	73	71	NNW 2	NW 2	1	0	—	☉ 0 n. ☉ 0 p. [grass 25° op.
29	30.358	30.390	30.2	31.3	27.4	37.3	29.918	29.936	69	77	WNW 2	S 1	6	1	—	“Black” frost, ~ a. ☉ p. Temp. on
Means	29.925	29.936	44.1	43.9	40.2	49.2	29.949	29.942	84.1	82.1	3.3	3.6	6.9	5.9	1.560	



GLENALMOND.

Height above Mean Sea Level, 529 feet. Long.  $3^{\circ} 40' W.$  Lat.  $56^{\circ} 27' N.$

MARCH 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.	
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.			9 a.m.
1	ins.	ins.	24° 1'	40° 0'	15° 5'	41° 0'	in.	in.	56	96	Calm	W	1	8	10	Temperature rose suddenly about 1 p.	
2	30° 256	30° 080	24° 1'	40° 0'	15° 5'	41° 0'	° 071	° 236	56	96	Calm	W	1	8	10		
3	29° 958	° 887	46° 0'	32° 7'	32° 6'	54° 2'	° 289	° 171	94	92	W	1	Calm	0	9	2	
4	30° 034	30° 039	43° 1'	35° 2'	29° 8'	54° 5'	° 196	° 182	70	88	S	1	(N NW) 1	7	0	—	
5	29° 914	29° 925	36° 1'	30° 1'	29° 3'	45° 0'	° 200	° 139	95	82	Calm	0	(S W) 1	1	9	0	
6	° 884	° 955	40° 5'	36° 0'	28° 6'	44° 5'	° 181	° 107	73	79	W	2	NNW 5	4	1	—	
7	° 925	° 603	34° 3'	34° 0'	27° 4'	43° 0'	° 142	° 152	71	78	Calm	0	NW 4	9	0	—	
8	29° 695	29° 937	35° 4'	32° 0'	29° 4'	37° 0'	° 173	° 158	84	87	N	6	N	4	2	A few * showers after 7 p.	
9	30° 066	30° 136	32° 0'	34° 0'	28° 5'	37° 0'	° 147	° 139	87	71	NNW 3	NNW 2	0	9	1	* in past night.	
10	29° 999	29° 923	32° 6'	35° 9'	30° 8'	40° 0'	° 176	° 203	96	96	WSW 2	Calm	0	10	10	* n. and ga.	
11	° 862	° 903	42° 0'	40° 5'	36° 0'	46° 5'	° 267	° 241	100	96	SW	1	W	1	10	—	
12	° 972	° 926	41° 2'	36° 0'	35° 0'	45° 0'	° 255	° 174	98	82	SW	2	WSW 1	10	10	—	
13	° 401	° 399	43° 1'	39° 0'	34° 0'	46° 5'	° 224	° 181	80	77	NW 5	N	5	10	0	Rough and squally a. [day. * during	
14	° 516	° 631	41° 0'	44° 2'	34° 5'	47° 0'	° 197	° 270	77	93	NW 4	Calm	0	9	10	Squally during day.	
15	° 545	° 695	42° 8'	38° 0'	35° 0'	51° 0'	° 190	° 157	70	68	NW 6	NW 3	3	3	0	One or two ▲ showers.	
16	° 609	° 554	38° 8'	31° 2'	45° 0'	° 200	° 175	85	100	WNW 2	(N W) 1	3	4	—	—	* during day.	
17	° 286	° 383	33° 3'	33° 0'	26° 2'	41° 5'	° 141	° 142	74	75	SW	2	NW 2	3	3	* 0 sp.	
18	° 409	° 423	31° 0'	31° 0'	26° 0'	43° 5'	° 158	° 174	90	100	W	Calm	0	9	1	* 0 showers during day.	
19	° 535	° 607	35° 0'	32° 0'	27° 3'	44° 0'	° 158	° 147	77	80	NE	1	SE 2	8	1	△ N. Lovely day.	
20	° 613	° 570	37° 5'	30° 6'	24° 7'	42° 5'	° 158	° 131	71	76	(N W) 2	(N W) 1	1	1	—	—	
21	° 523	° 470	35° 0'	34° 0'	21° 3'	45° 0'	° 145	° 175	70	89	Calm	0	Calm	0	3	9	—
22	° 460	° 550	33° 7'	31° 8'	27° 3'	42° 0'	° 161	° 161	84	90	Calm	0	Calm	0	9	8	* 0 n. Day very fine.
23	° 641	° 713	37° 0'	29° 5'	24° 8'	44° 0'	° 156	° 131	72	81	SE	1	Calm	0	5	3	Lovely day.
24	° 622	° 423	35° 3'	32° 0'	25° 8'	45° 0'	° 181	° 174	88	96	Calm	0	SE	1	9	5	* 0 n. Day fine. ∞ gp.
25	° 247	° 265	36° 6'	36° 7'	28° 3'	38° 0'	° 208	° 204	96	94	SE	2	ESE	4	10		* through day.
26	° 328	° 466	34° 5'	37° 2'	33° 5'	37° 5'	° 179	° 204	90	92	E	5	E	4	10	10	* through day.
27	° 491	° 362	35° 0'	35° 1'	33° 7'	39° 0'	° 196	° 204	95	100	ENE	4	ENE 5	5	10	10	Cold and windy.
28	° 337	° 441	37° 3'	35° 2'	32° 0'	38° 0'	° 223	° 201	100	98	E	3	E	3	10	10	Cold wind and drizzle all day.
29	° 601	° 795	37° 0'	37° 2'	34° 0'	41° 0'	° 196	° 222	89	100	ESE	2	E	1	10	10	* through day.
30	° 878	° 916	37° 0'	37° 5'	35° 0'	39° 5'	° 218	° 220	99	98	E	2	Calm	0	10	10	—
31	° 929	° 871	37° 7'	41° 5'	32° 3'	47° 5'	° 212	° 251	94	96	Calm	0	SSW	1	9	10	—
31	29° 722	29° 837	40° 1'	38° 5'	38° 0'	53° 5'	° 274	° 185	78	80	WNW 5	NW	1	5	8	—	
Means	29° 686	29° 701	37° 3'	35° 2'	29° 9'	43° 8'	° 189	° 183	83° 8'	88° 1'	2° 1'	1° 7'	7° 2'	5° 9'	1° 990		

DURHAM.

Height above Mean Sea Level, 335 feet. Long.  $1^{\circ} 35' W.$  Lat  $54^{\circ} 46' N.$

MARCH 1877.

	10 a.m.	10 p.m.	10 a.	10 p.	Min.	Max.	10 a.	10 p.	10 a.	10 p.	10 a.m.	10 p.m.	10 a.	10 p.	10 a.		
1	30°293	30°163	34°5	35°9	19°6	42°2	*161	*186	80	88	SW	0°8	S	3°0	10	10	°086
2	30°022	30°079	49°1	43°7	34°3	53°4	*290	*271	83	95	SSW	2°8	Calm	0	10	8	°176
3	29°878	29°043	45°6	35°2	33°5	46°8	*304	*204	100	99	Calm	0	NNE	0°4	10	0	°067
4	*903	*887	36°1	35°0	28°9	49°0	*213	*176	100	86	NW	0°2	NW	1°3	10	0	°003
5	*863	*899	41°2	35°9	31°9	45°0	*198	*184	77	87	NW	1°6	NW	1°7	1	10	°012
6	*921	*584	38°6	39°5	33°3	45°6	*168	*204	72	84	NW	0°8	WNW	1°9	4	2	°393
7	*427	29°853	35°3	31°7	30°3	39°9	*201	*136	97	76	NNE	5°5	N	2°8	10	0	°482
8	29°906	30°092	34°2	33°1	28°4	38°4	*186	*158	94	84	NNW	2°5	NNW	2°8	1	1	—
9	30°071	29°988	31°4	33°7	29°8	36°4	*173	*187	98	96	SSW	0°8	S	3°6	10	10	°092
10	29°970	30°019	33°8	32°8	32°5	35°2	*188	*157	97	84	SSW	3°0	S	3°7	10	10	°036
11	30°109	29°953	34°9	37°0	31°4	43°0	*169	*190	83	89	S	3°2	SW	0°6	10	0	—
12	29°519	*478	46°7	39°2	36°4	50°5	*232	*186	74	78	WSW	5°3	WNW	2°4	9	3	—
13	*597	*627	43°0	47°2	35°5	50°8	*206	*269	75	84	WNW	2°7	WNW	0°8	10	10	—
14	*663	*781	49°2	39°2	37°1	51°9	*213	*197	61	82	WNW	5°8	WNW	1°4	1	8	—
15	*666	*394	45°7	35°9	34°5	49°8	*213	*186	70	88	W	4°2	SW	4°4	4	2	°072
16	*306	*424	35°2	29°3	27°1	42°0	*177	*119	86	74	W	3°4	WSW	0°9	4	0	—
17	*446	*454	39°2	35°2	26°5	43°1	*14	*199	73	92	WNW	1°8	W	1°4	4	0	—
18	*491	*800	38°8	30°6	30°3	42°2	*205	*156	87	91	W	1°8	N	0°8	10	0	°130
19	*669	*533	40°2	30°1	25°5	47°9	*169	*132	67	78	WNW	0°6	W	0°8	0	0	—
20	*487	*474	40°0	29°4	24°4	42°3	*167	*146	67	90	NE	0°7	NW	0°5	0	3	—
21	*436	*544	35°6	33°4	26°3	41°2	*160	*143	76	75	NE	0°7	SSW	0°4	6	9	—
22	*659	*751	37°2	28°8	28°3	44°2	*202	*159	91	100	NE	0°7	SW	0°2	5	0	°080
23	*048	*385	35°8	36°8	22°5	46°8	*191	*188	90	87	S	0°8	SE	2°0	4	10	°198
24	*198	*141	37°7	37°2	34°5	40°2	*214	*216	95	97	ESE	1°8	ENE	0°9	10	10	°430
25	*073	*255	40°1	39°6	37°0	41°6	*246	*243	99	100	NE	1°8	ENE	2°4	10	10	1°642
26	*270	*266	39°7	40°0	38°3	42°2	*230	*245	94	99	ENE	2°2	E	0°8	10	10	°408
27	*264	*372	41°7	40°0	39°3	45°2	*252	*245	99	99	E	0°9	ENE	0°9	10	10	°268
28	*589	*803	47°1	33°4	32°5	54°3	*238	*189	74	99	WSW	1°8	NW	0°4	7	0	°010
29	*873	*895	37°5	38°8	30°3	45°2	*224	*224	100	96	Calm	0	E	0°6	10	10	—
30	*972	*958	45°2	44°2	38°0	57°9	*235	*242	78	83	SE	0°5	SW	0°9	0	10	—
31	29°826	29°886	47°2	42°3	42°0	54°9	*262	*213	82	80	WSW	3°0	WNW	2°2	10	10	—
Means	29°683	29°690	39°9	36°3	31°6	45°4	*209	*192	84°5	88°4	2°0	1°5	6°5	5°5	4°5	585	

## HAWES.

Height above Mean Sea Level, 800 feet. Long.  $2^{\circ} 11' W.$  Lat.  $54^{\circ} 18' N.$

MARCH 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	a.m.	9 p.m.	9 a.m.	9 p.m.		
1	ins.	ins.	28° 6'	34° 9'	13° 9'	36° 6'	in.	in.	9/10	9/10	Calm	0	NW	1	8	ins.
2	30° 355	30° 224	28° 6'	34° 9'	13° 9'	36° 6'	in.	in.	9/10	9/10	Calm	0	NW	1	8	0° 50
3	° 096	° 114	45° 7'	44° 5'	34° 1'	48° 0'	° 290	° 294	95	100	W	2	Calm	0	10	300
4	30° 027	30° 021	45° 7'	44° 9'	41° 6'	47° 0'	° 290	° 266	95	100	W	1	Calm	0	10	0° 70
5	29° 945	29° 947	38° 0'	34° 9'	30° 9'	44° 1'	° 213	° 172	93	84	Calm	0	WNW	1	10	0° 70
6	° 941	° 954	36° 0'	35° 1'	33° 1'	44° 3'	° 176	° 166	83	80	WNW	1	N	1	10	0° 70
7	° 977	° 598	36° 1'	38° 1'	32° 0'	40° 9'	° 170	° 208	79	90	NNW	1	WSW	2	8	° 100
8	29° 484	29° 885	31° 7'	30° 8'	29° 7'	38° 9'	° 169	° 125	94	72	N	3	N	4	10	° 240
9	30° 053	30° 148	26° 7'	31° 0'	24° 7'	34° 8'	° 102	° 107	71	62	NNW	2	W	2	1	° 210
10	° 128	° 027	29° 9'	33° 3'	27° 0'	35° 0'	° 152	° 184	91	97	WNW	1	W	1	5	° 020
11	° 007	° 044	35° 6'	34° 8'	32° 8'	36° 3'	° 193	° 183	93	91	Calm	0	Calm	0	10	° 130
12	30° 155	30° 032	35° 0'	38° 3'	33° 0'	38° 3'	° 160	° 218	78	94	WNW	1	SW	2	10	—
13	29° 573	29° 547	40° 2'	38° 0'	36° 2'	45° 0'	° 240	° 182	96	79	W	4	W	5	1	° 350
14	° 648	° 778	42° 0'	45° 2'	35° 3'	46° 2'	° 196	° 268	74	90	WNW	3	W	3	10	° 240
15	° 737	° 836	46° 1'	38° 1'	37° 8'	46° 7'	° 225	° 164	73	71	WNW	5	W	5	1	° 150
16	° 776	° 484	39° 7'	36° 9'	35° 0'	42° 0'	° 204	° 173	84	79	WSW	3	WSW	4	10	° 060
17	° 388	° 463	33° 8'	27° 0'	27° 0'	37° 0'	° 154	° 134	79	92	WNW	3	Calm	0	10	° 190
18	° 500	° 507	35° 7'	35° 0'	24° 1'	38° 0'	° 159	° 176	76	86	W	1	SW	3	9	° 060
19	° 520	° 624	40° 5'	32° 5'	32° 2'	41° 4'	° 199	° 171	79	94	WSW	2	Calm	0	9	° 050
20	° 658	° 613	36° 0'	28° 0'	30° 8'	43° 3'	° 122	° 120	57	78	Calm	0	Calm	0	0	° 310
21	° 542	° 509	30° 7'	28° 9'	20° 7'	43° 4'	° 108	° 110	64	70	Calm	0	SW	1	10	—
22	° 466	° 572	33° 9'	29° 9'	24° 2'	40° 4'	° 152	° 122	78	73	Calm	0	Calm	0	9	—
23	° 688	° 800	34° 1'	29° 0'	27° 2'	42° 8'	° 154	° 134	77	84	Calm	0	Calm	0	7	° 010
24	° 689	° 415	39° 3'	36° 3'	35° 2'	44° 0'	° 165	° 164	70	77	Calm	0	ESE	2	0	° 020
25	° 194	° 111	35° 6'	34° 9'	32° 9'	37° 0'	° 193	° 185	93	91	ESE	3	E	2	10	° 350
26	° 019	° 229	36° 9'	39° 0'	34° 0'	41° 1'	° 209	° 231	96	98	ENE	5	ENE	4	10	° 400
27	° 277	° 220	39° 0'	39° 2'	37° 6'	40° 0'	° 227	° 235	96	98	ENE	3	E	2	10	° 320
28	° 275	° 371	40° 2'	40° 7'	37° 1'	48° 6'	° 249	° 245	100	96	E	1	E	1	10	° 060
29	° 533	° 831	45° 0'	34° 0'	34° 0'	49° 4'	° 224	° 173	75	88	W	2	Calm	0	8	—
30	° 898	29° 944	36° 0'	39° 0'	27° 2'	46° 7'	° 209	° 218	99	92	Calm	0	E	1	10	° 010
31	° 956	30° 035	49° 8'	43° 5'	35° 0'	52° 2'	° 194	° 247	54	87	Calm	0	WSW	2	1	—
32	29° 900	29° 041	43° 4'	41° 5'	46° 1'	—	° 259	° 206	94	78	W	3	W	5	10	° 050
Means	29° 723	29° 735	37° 6'	36° 0'	30° 9'	42° 5'	1° 187	1° 186	81° 6'	86° 0'	1° 6'	1° 7'	8° 1'	6° 3'	3° 820	

WAKEFIELD.

Height above Mean Sea Level, 96 feet. Long.  $1^{\circ} 30' W.$  Lat.  $53^{\circ} 41' N.$

MARCH 1877.

1	30° 368	30° 249	23° 8	38° 1	181	40° 8	° 098	° 204	78	88	NW	SSW	2	10	° 110	▲ ga.
2	° 143	30° 111	38° 6	40° 0	35° 0	52° 2	° 224	° 327	96	94	SSW	SSW	10	10	° 220	
3	30° 096	29° 956	49° 2	46° 8	42° 1	50° 9	° 324	° 301	93	94	WSW	SSW	10	10	° 160	
4	29° 924	° 896	40° 5	39° 3	38° 0	48° 1	° 241	° 218	96	92	W	W	10	0	° 120	
5	° 964	° 928	39° 1	35° 1	33° 4	45° 9	° 198	° 198	83	97	W	W	10	0	° 080	
6	° 952	° 614	38° 7	40° 5	34° 2	44° 9	° 198	° 237	85	94	NNW	WSW	5	8	° 130	
7	29° 379	29° 853	34° 2	35° 1	34° 2	41° 9	° 193	° 182	98	89	WNW	NW	10	0	° 300	
8	30° 010	30° 097	34° 8	36° 1	31° 1	38° 0	° 168	° 152	82	71	NW	NW	2	0	—	✱ ga.
9	° 123	° 059	35° 9	37° 2	31° 6	37° 8	° 148	° 197	70	89	W	SSW	10	10	° 010	
10	° 061	° 066	35° 9	35° 5	35° 0	37° 8	° 193	° 179	92	86	S	S	10	10	—	
11	30° 185	30° 066	36° 8	44° 2	33° 2	45° 9	° 182	° 237	84	82	S	S	9	10	° 020	
12	29° 714	29° 608	41° 1	43° 8	40° 6	49° 1	° 236	° 233	92	81	SW	NW	10	10	° 090	
13	° 670	° 805	44° 2	47° 2	40° 6	47° 9	° 237	° 316	82	98	W	W	10	10	—	
14	° 731	° 882	49° 2	44° 2	43° 1	52° 6	° 299	° 208	86	71	W	WNW	10	5	—	
15	° 816	° 590	44° 0	40° 2	38° 2	48° 9	° 243	° 225	84	90	W	W	7	0	° 160	
16	° 420	° 461	38° 2	37° 1	37° 1	43° 1	° 179	° 157	78	71	W	W	8	0	° 020	
17	° 568	° 534	35° 4	37° 1	30° 8	43° 9	° 179	° 182	87	82	W	NW	0	4	—	
18	° 561	° 593	41° 2	38° 1	34° 8	46° 9	° 196	° 193	76	84	WSW	NW	5	10	—	
19	° 638	° 580	37° 1	30° 8	30° 3	44° 4	° 173	° 152	78	88	NNE	NE	0	0	—	⚡ before ga.
20	° 503	° 440	36° 1	34° 1	23° 2	44° 5	° 159	° 166	75	84	E	E	0	6	—	
21	° 432	° 555	37° 4	32° 9	31° 4	44° 0	° 182	° 160	82	86	N	N	4	5	—	⚡ before ga.
22	° 674	° 799	33° 1	32° 3	30° 3	44° 8	° 153	° 158	81	87	N	SSE	6	0	—	
23	° 767	° 386	38° 2	39° 1	26° 2	46° 3	° 188	° 217	82	91	S	SE	0	10	° 040	— ga.
24	29° 264	° 090	38° 0	37° 3	36° 3	43° 7	° 225	° 217	98	97	SE	ENE	10	10	° 670	
25	28° 077	° 163	43° 4	39° 5	37° 2	43° 9	° 277	° 280	98	91	E	NE	10	10	° 300	
26	29° 239	° 211	42° 4	37° 4	37° 4	43° 7	° 262	° 224	97	100	N	NE	10	8	° 110	
27	° 302	° 384	43° 2	44° 8	30° 6	53° 4	° 270	° 256	96	86	SSE	W	10	10	° 180	
28	° 629	° 804	45° 5	41° 1	32° 8	53° 3	° 248	° 234	82	91	WSW	NNW	6	4	—	▲ p. K



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## KELSTERN.

Height above Mean Sea Level, 388 feet. Long. 0° 7' W. Lat. 53° 24' N.

MARCH 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	27.1	33.1	19.8	42.7	in.	in.	%	%	NW 1	W 1	3	10	ins.	
2	30.366	30.295	27.1	33.1	19.8	42.7	in.	in.	%	%	SSW 2	SW 1	10	10	0.028	ga.
3	30.077	29.999	46.0	45.3	44.0	50.1	31.1	30.1	100	98	W 1	SW 1	10	10	0.165	a. and p.
4	29.909	28.84	38.8	37.2	37.2	45.7	23.6	21.8	100	98	NNE 1	NW 1	10	2	0.024	a. and p.
5	28.84	28.85	35.8	32.1	31.9	44.8	18.4	17.6	98	98	NW 1	NNW 1	0	1	0.030	
6	29.07	29.07	35.9	34.8	31.6	45.0	20.1	17.4	96	86	NW 1	WSW 1	4	2	0.074	* before ga. O p.
7	29.22	29.703	31.9	35.8	31.4	39.6	18.0	18.2	100	87	NW 3	NE 3	10	2	0.360	* before ga. * and squalls p.
8	29.930	30.040	32.0	32.1	29.9	37.7	17.2	15.4	95	85	N 2	NW 2	3	3	0.010	
9	30.117	30.098	32.4	33.2	28.9	39.4	15.7	18.0	86	100	W 1	SW 1	10	10	—	
10	30.121	30.128	32.4	30.6	30.6	35.9	17.0	13.4	93	78	WSW 2	SSE 3	10	9	—	
11	30.335	30.116	32.8	34.7	26.9	40.7	14.7	16.2	79	80	SSW 2	SW 2	1	10	0.073	
12	29.732	29.578	41.0	40.0	32.6	47.7	21.5	24.2	84	98	WSW 4	NW 4	10	10	0.145	in squalls p.
13	29.649	29.801	41.8	43.5	37.5	45.2	22.7	26.4	86	94	WNW 3	NW 1	8	10	0.616	
14	29.759	29.867	46.9	41.2	40.7	51.9	27.6	22.1	87	86	WNW 3	NW 2	10	8	—	
15	28.845	28.555	41.9	40.0	35.3	47.4	22.5	22.6	86	92	WSW 2	SW 1	7	10	0.013	
16	29.434	29.478	36.1	30.1	30.1	44.7	18.8	14.4	89	85	WSW 2	Calm	0	3	—	* before ga. * p.
17	29.516	29.571	35.7	32.3	29.1	45.1	18.2	16.2	86	89	NW 1	W 1	1	0	0.045	
18	29.588	29.598	37.1	32.6	30.0	48.9	20.1	17.4	91	94	WSW 2	W 1	2	2	—	
19	29.632	29.580	36.0	29.2	29.2	42.9	19.6	15.2	94	95	NE 1	W 1	3	0	—	
20	29.407	29.477	37.0	34.4	27.0	41.8	19.5	15.8	89	79	NE 1	NE 1	2	6	—	
21	29.369	29.525	37.2	29.6	29.6	40.8	17.9	13.2	80	81	NW 1	NW 1	7	1	—	* p.
22	29.659	29.798	36.0	31.0	26.6	46.5	17.5	17.4	82	100	WSW 1	WSW 1	1	6	0.065	* p.
23	29.751	29.472	32.3	35.0	18.8	44.6	17.9	18.9	97	93	S 1	SE 2	2	2	0.085	a.
24	29.237	29.132	36.3	35.1	33.0	40.7	21.3	20.4	98	100	SE 1	ESE 1	10	9	0.466	p.
25	28.988	28.942	42.3	40.0	35.0	48.1	26.8	24.7	98	100	ESE 2	ESE 2	10	10	0.046	gp. and before.
26	29.205	29.221	41.2	41.0	36.7	48.9	25.9	25.5	100	99	NNE 1	E 1	10	10	0.135	before ga.
27	29.258	29.375	43.0	42.3	39.1	52.3	25.7	25.7	93	96	S 1	WSW 1	10	10	0.034	
28	29.649	29.812	44.2	40.2	35.1	54.6	25.2	22.0	87	89	WSW 1	W 1	6	1	—	
29	29.848	29.898	42.1	40.0	34.3	50.9	24.4	24.7	91	100	W 1	NE 1	7	10	0.225	gp.
30	29.984	30.070	40.2	39.9	39.0	48.1	24.4	24.4	98	99	N 1	SW 1	10	1	—	a.
31	30.006	29.937	42.3	46.0	37.1	48.9	25.5	29.9	95	97	WSW 2	WSW 1	10	10	0.020	
Means	29.729	29.739	37.8	36.7	32.3	45.5	21.0	20.6	91.2	92.4	1.6	1.4	6.5	6.0	2.119	

## BUXTON.

Height above Mean Sea Level, 987 feet. Long. 1° 54' W. Lat. 53° 14' N.

MARCH 1877.

1	30.361	30.238	29.9	38.9	23.0	39.9	105	217	63	92	NW 1	SW 8	10	10	170	ga. Thaw p.
2	29.58	29.130	37.3	47.1	34.4	48.3	188	289	85	90	SW 2	SW 1	10	10	110	
3	30.062	30.010	46.9	45.9	44.5	55.0	295	283	93	93	SW 1	SW 1	10	10	340	
4	29.920	29.948	41.2	37.0	34.3	45.9	235	210	92	96	Calm	NW 2	10	10	010	
5	29.969	29.942	31.9	31.9	31.9	37.0	159	159	88	88	NW 1	N 1	10	4	150	
6	29.969	29.979	33.5	35.9	30.3	42.0	158	196	82	94	NW 3	NW 3	10	10	190	
7	29.447	29.836	31.9	31.9	30.8	38.0	159	143	88	78	N 3	NE 2	10	10	200	* a. and p.
8	30.052	30.230	34.7	30.5	25.8	36.0	150	128	74	75	NW 1	NW 1	5	4	—	
9	29.116	29.070	32.0	33.9	26.0	35.0	133	157	73	80	N 1	N 1	10	10	110	* p.
10	29.042	29.090	32.9	31.9	27.0	33.9	152	151	81	83	SW 1	W 1	10	10	—	* a. and p.
11	30.231	30.113	32.9	36.7	27.8	36.9	164	196	88	90	E 1	W 1	9	10	205	* a.
12	29.730	29.643	38.9	38.9	34.6	38.9	213	207	91	88	W 7	W 5	10	10	—	
13	29.746	29.807	40.5	46.9	35.8	48.4	215	270	86	85	N 3	W 4	10	6	200	
14	29.804	29.890	45.9	40.7	40.8	46.9	268	217	88	85	NW 4	NW 4	10	10	050	
15	29.820	29.564	39.7	39.1	36.0	40.7	199	198	81	83	W 3	W 3	10	10	290	
16	29.472	29.569	34.4	32.7	31.2	39.1	153	151	76	81	W 3	NE 2	10	10	050	
17	29.565	29.628	33.5	34.9	29.2	40.9	153	165	81	80	NW 1	NW 1	10	10	005	
18	29.591	29.624	38.9	36.9	33.2	44.1	182	183	78	84	NW 2	N 1	4	10	—	
19	29.656	29.592	39.0	28.4	28.3	43.9	183	110	78	72	NE 1	Calm	0	5	—	
20	29.454	29.475	36.4	29.0	20.3	40.9	138	131	64	82	SE 2	E 1	2	2	—	
21	29.458	29.575	35.0	29.9	19.0	41.9	184	117	90	70	E 1	N 1	6	0	—	
22	29.653	29.848	37.9	26.9	25.7	41.9	183	117	80	80	NW 1	Calm	0	6	—	
23	29.696	29.390	36.3	36.7	23.3	42.3	188	185	89	85	SW 1	NE 2	4	10	315	
24	29.202	29.015	36.7	34.9	32.4	45.1	194	185	90	91	NW 1	NE 4	10	10	600	* ga.
25	28.937	29.174	43.9	41.7	32.8	49.3	224	246	77	93	SE 1	SSE 3	10	10	—	* a.
26	29.240	29.216	39.6	37.9	37.0	44.9	209	208	86	91	E 1	Calm	0	10	10	
27	29.270	29.378	41.3	36.9	35.7	50.4	230	201	89	92	Calm	SW 1	6	10	110	
28	29.655	29.849	44.7	33.9	30.4	50.7	221	176	75	90	W 1	W 1	4	1	—	
29	29.823	29.839	45.5	40.9	30.0	50.0	288	234	95	92	Calm	W 1	2	10	455	
30	29.985	30.088	45.3	43.8	36.0	52.9	242	214	80	74	Calm	W 3	1	10	—	
31	30.085	30.048	41.8	41.3	38.0	45.9	256	225	96	88	NW 6	NW 1	10	10	—	
Means	29.751	29.760	38.1	36.6	31.5	43.5	194	189	83.1	85.3	1.7	1.9	7.9	8.0	3.560	

## HILLINGTON, NORFOLK.

Height above Mean Sea Level, 88 feet. Long. 0° 33' E. Lat. 52° 48' N.

MARCH 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	30.0	34.1	28.6	39.3	in.	in.	%	%	NW 1	SE 1	5	10	ins.	
2	30.349	30.274	30.0	34.1	28.6	39.3	.122	.145	73	73	SW 1	SW 0.5	10	10	.150	
3	.174	.111	37.8	48.0	29.6	49.5	.227	.333	100	99	S 1	SW 1	10	10	.100	
4	30.087	30.002	46.2	46.7	44.5	50.1	.313	.317	100	98	SE 1	NNW 1	10	10	.260	
5	29.885	29.850	41.2	39.8	39.3	47.2	.254	.231	98	95	N 2	NNW 1	0	6	.020	
6	.862	.851	37.8	32.4	30.9	46.5	.194	.176	86	96	N 1	NW 4	9	10	—	
7	.853	.733	33.1	35.0	30.7	46.5	.152	.184	74	90	NW 3	NE 5	10	10	.057	2.30p.
8	.336	.641	35.3	37.8	32.7	42.6	.162	.194	78	86	NNW 2	NW 5	10	10	.138	* 10a. 4p. 2 at night.
9	29.872	29.971	31.9	33.8	31.6	39.3	.180	.124	100	63	N 3	SE 1	10	3	.175	* 8a. and 10a. Fine and sunny p.
10	30.083	30.077	35.0	34.2	32.0	41.3	.180	.185	88	94	SE 2	SE 2	10	3	.175	
11	.111	.124	32.6	29.2	29.0	37.6	.160	.133	88	83	S 2	SW 3	4	7	.040	
12	30.229	30.146	36.0	32.2	22.3	41.6	.143	.151	67	83	SW 1	NW 7	10	8	.043	at night.
13	29.813	29.593	39.9	42.7	31.5	47.7	.239	.235	98	85	NW 7	NW 2	10	10	.055	
14	.590	.786	43.7	44.6	38.8	45.4	.227	.273	79	93	NW 4	NW 4	10	7	.010	
15	.798	.847	47.9	42.9	42.1	54.3	.286	.231	87	84	NW 3	SW 5	9	2	—	
16	.854	.646	41.7	43.1	37.2	49.4	.231	.235	88	81	NW 3	W 2	5	8	.020	at night.
17	.478	.481	39.9	34.8	33.0	46.9	.190	.163	78	80	W 5	W 2	5	8	.020	at night.
18	.532	.570	36.0	35.5	31.0	44.9	.188	.179	89	86	SW 3	S 2	8	8	.005	at night.
19	.613	.605	39.6	35.5	26.8	49.6	.208	.193	85	94	SW 1	W 3	0	4	.022	
20	.608	.561	36.2	36.0	26.2	47.2	.214	.140	100	83	NNW 0.5	NE 3	10	0	—	
21	.426	.359	39.5	36.0	27.5	43.4	.178	.176	74	83	NE 4	NE 4	4	10	.075	
22	.314	.509	36.4	33.2	32.4	39.6	.189	.185	89	98	NE 3	N 3	10	6	.310	
23	.658	.766	36.1	29.3	27.5	44.7	.190	.151	90	93	W 1	NW 0.5	6	1	.010	
24	.766	.487	30.0	36.2	24.6	47.3	.148	.186	88	87	SW 1	SE 3	10	9	.117	
25	.235	.124	37.1	38.8	35.6	46.9	.221	.219	100	94	SE 1	SE 2	10	10	.185	
26	.084	.161	46.4	38.8	38.1	50.9	.301	.236	96	100	SSE 4	SE 2	10	2	.040	
27	.192	.202	43.8	41.7	37.1	51.4	.286	.262	100	98	Calm 0	SE 1	10	4	.025	
28	.239	.385	47.0	42.6	38.3	54.4	.301	.260	94	95	W 1	SW 3	9	10	.047	
29	.666	.796	45.9	43.7	37.0	55.3	.266	.269	87	94	WSW 5	SW 1	4	10	—	
30	.841	.29.842	48.9	43.0	36.1	51.4	.318	.277	93	100	SW 1	SW 1	10	10	.030	
31	.957	30.054	43.3	40.8	38.1	50.1	.278	.248	100	97	NW 2	NW 0.5	10	3	—	
32	.040	29.933	48.1	47.7	36.8	50.8	.280	.294	84	94	NW 5	NW 6	10	10	—	
Means	29.724	29.725	39.5	38.2	33.0	46.9	.220	.212	88.7	89.5	2.3	2.6	8.2	7.0	1.934	



## Oscott.

Height above Mean Sea Level, 460 feet. Long. 1° 51' W. Lat. 52° 33' N.

MARCH 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
2	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
3	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
4	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
5	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
6	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
7	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
8	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
9	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
10	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
11	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
12	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
13	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
14	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
15	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
16	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
17	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
18	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
19	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
20	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
21	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
22	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
23	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
24	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
25	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
26	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
27	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
28	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
29	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
30	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
31	30.386	30.271	27.5	36.8	21.3	42.8	in.	in.	67	89	S	0-1	S	1-2	1	ins. 100
Means	29.752	29.743	30.0	38.9	33.7	47.5	20.4	20.9	83.9	86.5	2.9	2.3	8.0	6.7	2.060	

## Churchstoke.

Height above Mean Sea Level, 548 feet. Long. 3° 5' W. Lat. 52° 31' N.

MARCH 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
2	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
3	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
4	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
5	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
6	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
7	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
8	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
9	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
10	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
11	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
12	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
13	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
14	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
15	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
16	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
17	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
18	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
19	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
20	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
21	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
22	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
23	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
24	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
25	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
26	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
27	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
28	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
29	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
30	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
31	30.389	30.234	29.4	41.5	22.8	47.1	122	228	76	88	W	1	SW	2	2	7
Means	29.772	29.759	30.1	39.2	33.6	45.9	20.8	20.9	85.4	86.0	0.8	0.9	6.0	5.8	2.049	

## HEREFORD.

Height above Mean Sea Level, 274 feet. Long. 2° 45' W. Lat. 52° 5' N.

MARCH 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	33.5	41.4	21.9	45.2	in.	in.	84	86	Calm	0	Calm	0	2	ins. 100
2	30.376	30.256	33.5	41.4	21.9	45.2	in.	in.	84	86	Calm	0	Calm	0	2	ins. 100
3	30.376	30.256	33.5	41.4	21.9	45.2	in.	in.	84	86	Calm	0	Calm	0	2	ins. 100
4	30.376	30.256	33.5	41.4	21.9	45.2	in.	in.	84	86	Calm	0	Calm	0	2	ins. 100
5	30.376	30.256	33.5	41.4	21.9	45.2	in.	in.	84	86	Calm	0	Calm	0	2	ins. 100
6	30.376	30.256	33.5	41.4	21.9	45.2	in.	in.	84	86	Calm	0	Calm	0	2	ins. 100
7	30.376	30.256	33.5	41.4	21.9	45.2	in.	in.	84	86	Calm	0	Calm	0	2	ins. 100
8	30.376	30.256	33.5	41.4	21.9	45.2	in.	in.	84	86	Calm	0	Calm	0	2	ins. 100
9	30.376	30.256	33.5	41.4	21.9	45.2	in.	in.	84	86	Calm	0	Calm	0	2	ins. 100
10	30.376	30.256	33.5	41.4	21.9	45.2	in.	in.	84	86	Calm	0	Calm	0	2	ins. 100
11	30.376	30.256	33.5	41.4	21.9	45.2	in.	in.	84	86	Calm	0	Calm	0	2	ins. 100
12	30.376	30.256	33.5	41.4	21.9	45.2	in.	in.	84	86	Calm	0	Calm	0	2	ins. 100
13	30.376	30.256	33.5	41.4	21.9	45.2	in.	in.	84	86	Calm	0	Calm	0	2	ins. 100



## CARMARTHEN.

Height above Mean Sea Level, 188 feet. Long. 4° 18' W. Lat. 51° 52' N.

MARCH 1877.

Day.	Barometer.		Air Temperature.			Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain-fall.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.		
1	ins.	ins.	37°	46°	24°	47°	in.	in.	%	%	E	1	SW	1	ins.
2	30°364	30°230	37°	46°	24°	47°	186	222	85	100	SW	1	SW	1	120
3	30°188	30°149	48°	47°	46°	50°	345	333	100	100	SW	1	SW	1	350
4	30°064	29°976	47°	46°	46°	51°	333	316	100	100	SW	1	SW	1	140
5	29°962	30°010	46°	39°	38°	50°	258	204	81	85	N	1	Calm	0	080
6	30°024	29°984	43°	40°	37°	48°	229	210	81	84	N	2	N	1	080
7	30°000	29°781	43°	42°	36°	49°	231	257	80	93	N	1	NW	1	160
8	29°629	29°836	37°	37°	34°	45°	193	179	87	81	N	2	N	6	120
9	30°064	30°184	39°	32°	32°	45°	166	140	67	76	N	1	NE	1	080
10	168	004	32°	38°	27°	40°	161	231	88	100	Calm	0	Calm	0	080
11	004	011	39°	38°	37°	41°	244	210	100	92	E	1	SE	1	100
12	30°186	30°145	39°	43°	35°	46°	200	283	82	99	SE	1	SW	2	100
13	29°934	29°828	43°	45°	37°	51°	258	234	93	77	SW	2	NW	4	100
14	29°908	30°024	49°	47°	44°	57°	283	298	82	90	W	3	NW	1	100
15	30°008	30°002	50°	44°	44°	53°	309	256	86	86	NW	2	NW	2	90
16	29°052	29°695	47°	42°	38°	50°	279	231	84	86	W	2	W	3	050
17	505	527	42°	37°	34°	49°	196	188	73	85	W	4	W	3	030
18	597	645	42°	36°	32°	47°	205	214	75	99	W	1	W	1	090
19	623	613	42°	33°	32°	50°	240	176	89	94	Calm	0	Calm	0	020
20	615	541	43°	36°	27°	48°	227	182	79	87	N	1	N	1	080
21	461	477	40°	36°	28°	45°	185	177	72	82	N	1	N	1	080
22	459	571	40°	35°	28°	49°	197	199	77	95	SE	1	Calm	0	020
23	710	834	41°	35°	32°	50°	233	190	89	93	Calm	0	NW	1	090
24	625	29°262	41°	40°	30°	45°	233	229	89	91	SE	1	SW	2	450
25	29°200	28°713	48°	43°	35°	49°	248	276	73	98	S	1	S	1	790
26	28°801	29°039	44°	42°	37°	51°	253	237	85	86	SE	2	E	1	110
27	29°186	193	47°	41°	39°	52°	257	254	79	97	NE	1	Calm	0	220
28	211	443	41°	41°	33°	48°	255	241	96	94	E	1	SW	1	160
29	650	772	50°	45°	33°	54°	268	283	74	95	Calm	0	Calm	0	130
30	29°795	29°849	48°	46°	40°	56°	284	313	84	98	Calm	0	SW	1	200
31	30°026	30°132	50°	42°	42°	56°	309	269	86	97	Calm	0	Calm	0	010
Means	29°779	29°759	43°	41°	35°	49°	244	240	84°	91°	1°	1°	6°	5°	3°890

## MARLBOROUGH, WILTS.

Height above Mean Sea Level, 471 feet. Long. 1° 43' W. Lat. 51° 25' N.

MARCH 1877.

1	30°420	30°325	31°	38°	20°	45°	138	221	78	94	Calm	0	SW	0°	0	10	028	ga.
2	243	214	47°	47°	38°	51°	312	313	95	96	SW	0°	W	0°	10	10	035	ga.
3	30°155	30°058	45°	45°	43°	51°	292	289	95	96	S	0°	SW	0°	10	10	096	ga.
4	29°880	29°965	44°	39°	38°	46°	289	214	97	89	N	0°	NW	0°	10	5	—	ga. p.
5	983	942	39°	35°	31°	47°	199	190	81	92	NW	0°	Calm	0	3	10	038	ga. p.
6	969	815	38°	36°	31°	44°	186	184	81	85	NW	0°	W	0°	10	10	050	ga. p.
7	520	29°623	36°	34°	32°	40°	167	186	79	92	NW	1°	N	0°	9	10	074	ga. p.
8	29°996	30°137	34°	30°	29°	40°	140	139	70	81	N	0°	NW	0°	0	0	—	ga. p.
9	30°158	113	37°	33°	27°	40°	147	178	66	95	N	0°	S	0°	1	10	071	ga. p.
10	100	118	33°	31°	31°	40°	166	135	86	75	SE	0°	SE	0°	10	10	—	ga. p.
11	30°238	30°219	33°	33°	25°	44°	142	156	75	81	Calm	0	SE	0°	0	0	040	ga. p.
12	29°943	29°787	41°	43°	32°	48°	236	238	90	83	SW	0°	W	0°	10	10	—	ga. p.
13	866	954	45°	48°	41°	51°	231	273	76	80	W	0°	W	0°	10	0	—	ga. p.
14	960	997	46°	44°	44°	52°	274	276	87	96	W	0°	W	0°	10	9	—	ga. p.
15	987	726	42°	44°	36°	50°	222	254	81	86	W	0°	W	1°	10	4	089	ga. p.
16	607	579	39°	35°	34°	47°	195	168	80	80	SW	0°	NW	1°	5	7	010	ga. p.
17	610	686	39°	33°	30°	47°	182	168	76	88	W	0°	W	0°	0	0	—	ga. p.
18	679	639	42°	35°	30°	49°	187	194	71	95	W	0°	Calm	0	0	1	276	ga. p.
19	615	531	37°	36°	26°	44°	193	176	87	83	Calm	0	N	0°	2	0	—	ga. p.
20	405	367	33°	34°	30°	39°	158	146	81	74	N	1°	N	0°	10	10	—	ga. p.
21	395	561	35°	32°	30°	44°	160	145	77	78	N	0°	W	0°	5	0	—	ga. p.
22	711	856	35°	31°	26°	48°	156	155	74	87	Calm	0	Calm	0	9	0	—	ga. p.
23	757	29°387	35°	38°	25°	46°	166	221	78	94	S	0°	S	0°	10	10	373	ga. p.
24	29°295	28°926	42°	43°	33°	49°	207	262	76	93	SW	0°	S	0°	6	10	300	ga. p.
25	28°870	29°088	43°	41°	39°	49°	237	231	83	88	S	0°	NE	0°	7	10	010	ga. p.
26	29°169	201	42°	39°	39°	48°	250	235	91	96	Calm	0	W	0°	10	10	315	ga. p.
27	283	508	43°	38°	31°	49°	205	205	87	89	W	0°	W	0°	8	1	162	ga. p.
28	712	844	47°	42°	36°	55°	263	243	81	91	S	0°	Calm	0	5	10	140	ga. p.
29	29°834	29°914	44°	45°	41°	57°	293	288	98	94	E	0°	W	0°	10	9	298	ga. p.
30	30°027	30°148	47°	41°	41°	57°	288	248	89	94	W	0°	Calm	0	10	0	—	ga. p.
31	30°148	30°115	48°	45°	37°	51°	263	273	77	91	W	0°	W	0°	5	10	009	ga. p.
Means	29°792	29°785	40°	38°	33°	47°	212	213	82°	88°	0°	0°	6°	6°	3°	414	—	ga. p.

## STRATHFIELD TURGISS.

Height above Mean Sea Level, 195 feet. Long. 1° 0' W. Lat. 51° 20' N.

MARCH 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.		
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.			9 a.m.	
1	ins.	ins.	29° 4	38° 6	22° 2	45° 1	in.	in.	%	%	NW	1	W	1	0	10	ins.	a. * p.
2	30° 408	30° 345	29° 4	38° 6	22° 2	45° 1	108	212	69	91	W	1	SW	1	10	10	100	
3	242	213	47° 5	48° 1	37° 0	51° 8	316	318	97	95	SW	1	SW	1	10	10	158	
4	30° 161	30° 067	48° 0	45° 5	44° 7	52° 6	309	293	93	97	S	1	N	1	10	10	058	
5	29° 869	29° 923	46° 2	40° 4	40° 4	47° 1	308	242	99	97	NW	2	N	1	0	6	—	
6	956	905	39° 9	36° 8	32° 8	47° 5	202	193	83	89	N	1	NW	1	10	3	054	
7	935	814	37° 2	35° 3	30° 6	43° 5	184	180	83	88	NW	2	N	3	2	10	237	
8	469	29° 545	36° 7	35° 7	32° 3	41° 1	167	195	77	94	N	2	N	1	4	0	007	
9	29° 950	30° 101	34° 9	30° 5	29° 0	40° 6	142	128	71	75	N	1	Calm	0	6	10	007	
10	30° 125	122	35° 1	34° 0	28° 5	40° 8	147	175	71	89	NE	1	NE	1	10	10	—	
11	118	124	34° 5	31° 6	31° 1	38° 1	154	133	78	75	SE	1	SW	1	0	0	015	
12	30° 235	30° 226	33° 3	33° 4	21° 7	44° 7	107	142	67	75	W	2	W	2	10	10	a. p.	
13	29° 979	29° 758	42° 9	45° 5	32° 0	48° 5	254	248	92	82	NW	2	W	2	9	10	a. p.	
14	835	929	47° 3	50° 2	42° 3	52° 6	232	206	72	82	W	2	SW	1	9	10	—	
15	954	990	48° 8	46° 5	44° 0	55° 0	272	280	79	90	W	1	SW	2	8	10	026	
16	979	721	45° 2	46° 0	37° 8	51° 5	220	287	73	93	SW	1	NW	1	7	0	—	
17	603	571	40° 8	34° 8	34° 3	48° 1	200	162	79	80	SW	1	NW	1	0	0	—	
18	612	672	40° 4	33° 9	30° 2	47° 3	182	165	73	84	SW	1	N	1	0	2	017	
19	682	629	40° 5	32° 9	29° 0	49° 8	188	182	75	98	Calm	0	N	1	0	4	—	
20	607	509	37° 0	37° 4	24° 2	47° 2	184	185	84	83	NE	1	NE	2	10	10	a. and p.	
21	396	335	35° 8	36° 0	32° 8	40° 3	158	162	76	76	N	2	N	1	10	7	—	
22	363	548	38° 6	31° 8	31° 6	45° 4	174	143	75	81	NW	1	Calm	0	2	0	055	
23	699	829	37° 1	31° 6	23° 6	48° 5	124	126	56	92	S	1	SE	2	8	10	340	
24	773	29° 396	40° 1	39° 8	24° 0	48° 1	191	228	77	94	SE	3	SE	3	2	10	270	
25	29° 296	28° 991	44° 0	43° 9	35° 0	51° 5	206	266	71	93	SE	1	SE	1	2	9	—	
26	28° 913	29° 087	44° 7	40° 4	40° 0	51° 4	244	235	83	91	NE	1	Calm	0	10	10	033	
27	29° 156	172	45° 0	43° 0	38° 3	52° 3	262	266	88	96	Calm	0	NW	1	0	10	313	
28	285	501	48° 0	39° 9	33° 6	51° 2	275	233	83	95	NW	1	SW	1	0	5	284	
29	707	847	47° 5	42° 4	36° 6	55° 6	205	262	82	97	SE	1	SW	1	10	0	034	
30	29° 824	29° 001	46° 1	48° 0	41° 2	58° 7	307	303	98	91	W	1	W	1	10	1	—	
31	30° 020	30° 125	48° 0	43° 7	41° 2	56° 9	273	264	79	92	W	2	W	2	2	10	—	
Means	29° 784	29° 774	41° 7	39° 5	33° 5	48° 6	214	219	79° 3	88° 4	1° 2	1° 2	5° 8	6° 4	2° 046	—	a.	



## HASTINGS.

Height above Mean Sea Level, 172 feet. Long. 0° 38' E. Lat. 50° 52' N.  
MARCH 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	30° 38.2	30° 6	25.1	40° 8	in.	in.	0.099	0.145	NNW 1	WNW 1	2	8	ins.	
2	30° 404	30° 382	30° 6	34° 3	25.1	40° 8	0.099	0.145	58	74	NNW 1	WNW 1	2	8	ins.	
3	30° 185	30° 099	40° 3	45° 0	44° 2	48° 5	252	308	98	97	SSW-S 2	W 3	10	10	0.075	~ a great part of day.
4	29° 895	29° 860	45° 8	41° 1	40° 6	48° 2	302	238	98	93	SW 2	SW 1	10	10	0.245	
5	914	881	39° 0	36° 0	35° 4	45° 5	197	190	83	90	Calms	N 2	10	10	0.190	~ a. from N.E. during after-noon.
6	887	838	36° 4	34° 6	32° 2	43° 0	190	170	89	84	NNW 3	NNW 3	0	0	—	
7	415	29° 422	34° 7	35° 8	32° 5	40° 8	170	183	84	88	N 4	NW 1	9	0	0.100	
8	29° 863	30° 038	35° 0	32° 1	31° 1	38° 9	174	143	85	78	N 3	N-NW 5-6	5	10	0.060	* 2 7.30a.
9	30° 058	30° 132	34° 7	32° 6	30° 9	41° 8	163	153	80	83	N 5-6	NNW 3	10	0	—	* showers at times.
10	149	147	31° 9	32° 8	29° 9	35° 8	118	117	65	63	NNE 6	NE 2	9	2	—	Zodiacal light 7.30p.
11	242	30° 248	33° 4	30° 1	28° 7	36° 8	106	093	55	56	SE 1	ESE 3	9	0	—	Very fine day. Zodiacal light 7.30p.
12	30° 016	29° 771	40° 4	45° 1	28° 6	45° 5	230	268	92	89	WSW 4-5	W 5	10	6	0.010	Very fine day. Zodiacal light 8p.
13	29° 807	914	45° 4	48° 4	40° 1	48° 8	226	290	75	86	W 6	NW 3	9	10	0.080	
14	949	962	48° 7	45° 0	43° 7	53° 6	276	279	80	94	W 4	W 2	7	1	0.035	[sun, the green very bright ga.
15	979	774	43° 5	40° 6	37° 6	49° 5	238	303	85	96	WNW 4	WSW 6	9	10	0.020	Brilliant prismatic colours near the
16	627	620	41° 3	34° 7	34° 0	47° 5	109	168	76	83	W 5	W 1	8	0	0.055	ga. O 4p.
17	634	692	40° 0	37° 0	30° 9	47° 2	177	177	71	81	W 4	NW 1	0	0	—	Δ 6p. Temp. fell 5°
18	711	652	42° 6	38° 9	31° 6	47° 8	202	208	75	88	W 1	NW 1	0	2	0.020	Δ 11a.—Noon. — 2 a.
19	584	470	38° 4	37° 8	35° 1	47° 2	206	210	89	92	NE 2	NE 4	3	7	—	
20	277	192	39° 0	33° 8	32° 3	40° 2	195	166	83	85	NE 6	NNE 7	10	10	0.480	Δ 0.50p. * 2 p.
21	266	529	35° 2	34° 5	33° 2	38° 6	187	172	91	86	N-NW 5	N 2	10	1	0.010	* 0 a. U 9p.
22	705	827	37° 6	36° 1	31° 5	45° 9	166	187	73	88	N 2	NW 2	0	1	—	
23	809	432	40° 4	41° 6	28° 7	46° 8	207	227	83	87	SSW 1	S 4	0	10	0.245	— 2 a. O all the afternoon. 2
24	29° 308	094	42° 0	44° 6	34° 7	47° 9	194	269	74	92	W 6	S 4-5	1	10	0.210	[in the evening.
25	28° 985	106	46° 8	43° 6	42° 1	51° 5	255	263	80	93	SSW 2	E 1	9	5	0.025	U 9p.
26	29° 155	171	44° 0	44° 8	42° 6	47° 5	265	271	92	92	SE 1	S 0-1	10	10	0.115	
27	336	538	46° 0	41° 8	40° 5	50° 4	279	240	91	92	SW 2	WSW 4	10	0	0.125	O 0.50p. Heavy squall, 6.30p.
28	756	871	47° 1	46° 2	40° 8	48° 3	288	302	89	97	SSW 6	S 0-1	10	10	0.170	[Misty 2 he afternoon.
29	29° 861	29° 948	47° 2	48° 1	45° 4	50° 2	323	327	99	97	SW 1	SW 1	10	10	0.005	
30	30° 021	30° 124	49° 4	45° 8	45° 2	53° 8	293	270	84	88	W 4	E 3	9	0	0.010	
31	30° 206	30° 093	49° 0	47° 9	39° 5	50° 9	275	264	79	79	W 2	W 4-5	0	10	—	
Means	29° 784	29° 776	41° 1	40° 1	35° 6	46° 1	218	222	82° 3	86° 7	3° 2	2° 6	6° 4	5° 3	2° 425	

## DARTMOOR.

Height above Mean Sea Level, 1,372 feet. Long. 3° 59' W. Lat. 50° 33' N.  
MARCH 1877.

1	30° 441	30° 335	35° 0	44° 6	24° 2	44° 6	172	295	84	100	SW 1	S 3	0	10	0.350	~ op. and before.	
2	291	261	44° 8	44° 4	43° 5	45° 6	297	293	100	100	SW 4	S 2	10	10	0.080	~ ga.—op.	
3	175	076	44° 0	44° 2	42° 8	46° 2	288	290	100	100	S 2	Calms	0	10	0.230	~ ga.—op.	
4	021	095	39° 0	34° 2	34° 2	44° 2	230	170	97	85	NW 4	NW 3	10	0	0.110	~ a.	
5	096	30° 026	35° 6	35° 0	32° 0	41° 0	188	187	91	92	NNW 4	NW 4	5	0	0.030	* a.	
6	30° 073	29° 037	33° 6	36° 0	32° 0	40° 6	172	204	89	96	N 3	Calms	0	6	0.100		
7	29° 724	29° 768	31° 8	33° 0	30° 0	38° 6	160	171	90	91	N 4	N 10	10	10	0.090	* all day.	
8	30° 108	30° 216	32° 2	28° 6	28° 0	37° 0	154	117	85	76	N 1	N 1	5	0	0.010	* p. [ing later in drizzle and ~	
9	230	131	33° 0	34° 4	25° 5	35° 4	107	195	89	97	NW 1	SW 1	9	10	0.410	* from 11a. ● * ~ 3p., end-	
10	081	096	36° 8	33° 6	33° 0	36° 8	214	160	97	83	S 1	S 2	10	10	0.010	~ a. and p.	
11	227	30° 302	36° 6	32° 2	29° 0	45° 6	182	159	84	88	E 4	Calms	0	7	0.090		
12	062	29° 943	41° 6	41° 2	31° 0	43° 4	225	233	86	91	NW 4	NW 9	8	5	0.020	~ p. Squalls op.	
13	049	30° 143	42° 4	44° 0	38° 5	45° 6	254	269	94	94	NNW 7	NW 6	10	0	—	Squalls a. and op.	
14	016	30° 143	43° 2	44° 0	40° 6	47° 0	251	288	90	100	NW 5	NW 5	10	10	—	~ op.	
15	30° 096	29° 891	41° 0	42° 0	38° 0	45° 6	235	267	92	100	NW 3	W 7	10	10	0.190	~ op. and before.	
16	29° 759	730	35° 0	31° 6	31° 0	46° 6	196	169	96	94	NW 5	NW 4	5	10	0.070	* ga.—op.	
17	726	782	37° 0	30° 6	29° 0	39° 6	186	156	85	91	NW 2	Calms	0	5	0	—	* p. ▲ 1.30p.—1.40p. Soft, dry,
18	747	733	35° 6	32° 2	29° 8	44° 8	177	156	85	85	Calms	Calms	0	7	0	—	and anorophots, in size and confor-
19	698	697	36° 2	32° 6	28° 0	42° 8	149	151	70	82	E 2	NE 4	3	0	—	mation like mulberries down to size	
20	475	473	30° 2	31° 6	28° 0	34° 2	147	164	87	92	NE 5	NE 3	10	0	—	of large peas. Six of the largest	
21	545	685	35° 0	32° 6	26° 5	41° 0	158	172	77	93	NE 1	Calms	0	2	0	0.070	weighed only 90 grains. About 1.35p.
22	814	950	33° 6	32° 2	29° 5	42° 6	193	178	100	98	NW 1	N 1	7	0	0.010	[K only one flash and peal, right	
23	771	29° 405	35° 2	35° 6	30° 0	38° 6	193	200	94	96	Calms	NW 6	10	6	0.360	overhead.	
24	29° 394	28° 884	38° 8	40° 2	30° 6	42° 6	228	249	96	100	W 2	S 1	8	10	1.420	* ga. and before.	
25	28° 879	29° 116	33° 2	34° 0	32° 0	40° 2	189	187	100	96	Calms	Calms	0	10	0.620	* changing to ● in afternoon.	
26	29° 242	305	38° 2	38° 6	32° 0	43° 6	231	222	100	95	NE 3	Calms	0	10	0.030	* a. ~ 9p. and before.	
27	294	576	41° 2	38° 0	34° 2	44° 6	243	213	95	93	SSE 2	SE 1	10	10	0.530	* a. and p.	
28	742	854	44° 8	43° 6	35° 5	49° 0	255	274	86	96	W 2	Calms	0	6	0.280		
29	29° 881	29° 931	44° 8	43° 6	42° 0	49° 0	293	284	98	100	SW 1	W 3	10	10	—		
30	30° 114	30° 238	43° 6	41° 0	39° 0	50° 6	274	235	96	92	W 3	NW 4	9	4	—		
31	30° 237	30° 225	47° 0	41° 8	37° 8	48° 6	313	252	97	95	W 4	W 5	10	10	0.030		
Means	29° 871	29° 871	38° 1	37° 1	32° 8	43° 1	213	212	91° 3	93° 3	2° 6	2° 7	7° 8	5° 8	5° 140		

## BABBICOMBE, DEVON.

Height above Mean Sea Level, 293 feet. Long. 3° 31' W. Lat. 50° 29' N.  
MARCH 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.				
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.					
1	ins.	ins.	30° 301	30° 8	25° 2	50° 1	in.	in.	0.174	0.323	71	98	Calms	0	SSW 2	0	10	ins.	0.050	~ 2 till 9a. ~ 5.45p. — 8p.
2	30° 400	30° 301	30° 8	47° 4	25° 2	50° 1	0.174	0.323	71	98	Calms	0	SSW 2	0	SSW 3	10	10	0.030	~ a.	
3	250	220	40° 2	48° 3	47° 3	51° 5	324	311	93	92	WSW 2	SW 3	10	10	SSW 2	10	10	0.070	~ p.	
4	30° 138	036	48° 2	47° 1	46° 3	51° 1	317	311	95	96	SSW 2	SSW 2	10	10	NW 3	N 2	9	1	—	(5.15p. Oval whitish light, 10°-2° [broad, 30°-35° high, springing from W. pointing to WNW. 7.45p.-8.45p.
5	29° 957	30° 027	45° 1	39° 4	39° 4	52° 1	244	196	81	82	NW 3	N 2	9	1	—	1	0	0.060	Δ 10.15a. Δ 2 in cones 0.3 in. dia., [1.50p.-1.55p. Same white light in W. as [last evening.	
6	30° 021	29° 982	42° 8	38° 2	35° 0	49° 2	212	203	77	88	NNW 3	NNW 1	1	0	—	1	0	0.060	~ a. Δ 11.10a. (force 8) after 4p.	
7	30° 011	849	42° 9	40° 7	35° 5	49° 1	210	223	77	88	N 2	WSW 4	1	10	—	3	6	—	0.020	~ a. Δ 11.10a. (force 8) after 4p.
8	29° 630	29° 696	40° 1	38° 1	37° 5	44° 7	165	164	66	71	NNW 6	N 8	3	6	—	2	0	0.040	~ a. Δ 11.10a. (force 8) after 4p.	
9	30° 028	30° 105	39° 6	33° 3	33° 0	44° 5	147	145	60	77	N 4	NNE 4	2	0	—	2	0	0.040	~ a. Δ 11.10a. (force 8) after 4p.	
10	178	073	37° 0	37° 8	29° 0	42° 2	166	217	76	96	NNW 1	SSW 2	10	10	—	10	10	400	~ a. Δ 11.10a. (force 8) after 4p.	
11	044	041	39° 6	38° 8	37° 7	41° 9	232	158	96	67	ESE 2	ESE 4	10	7	—	10	7	0.010	~ a. Δ 11.10a. (force 8) after 4p.	
12	30° 223	40° 3	35° 3	35° 0	45° 9	187	168	75	81	ESE 3	SSW 3	8	4	—	8	4	0.010	~ a. Δ 11.10a. (force 8) after 4p.		
13	30° 016	29° 885	48° 6	45° 6	35° 2	50° 6	242	236	70	77	W 4	WNW 6	6	2	—	6	2	—	0.010	~ a. Δ 11.10a. (force 8) after 4p.
14	29° 980	30° 051	49° 5	48° 5	44° 0	55° 4	257	277	73	82	NW 5	WNW 4	9	2	—	9	2	—	0.010	~ a. Δ 11.10a. (force 8) after 4p.
15	30° 072	30° 069	49° 2	48° 7	46° 8	57° 8	271	298	77	87	W 3	WNW 2	9	9	—	9	9	—	0.010	~ a. Δ 11.10a. (force 8) after 4p.
16	30° 035	29° 791	47° 1	47° 1	43° 4	55° 0	243	302	76	93	W 3	WSW 5	2	10	—	2	10	0.020	~ a. Δ 11.10a. (force 8) after 4p.	
17	30° 668	29° 643	43° 2	35° 5	35° 5	49° 1	217	179	78	86	W 3	W 4	2	0	—	2	0	0.010	~ a. Δ 11.10a. (force 8) after 4p.	
18	664	713	46° 3	34° 1	33° 4	49° 5	205	178	66	90	WSW 2	WSW 2	3	0	—	3	0	0.010	~ a. Δ 11.10a. (force 8) after 4p.	
19	673	631	42° 0	34° 6	30° 5	48° 0	218	180	83	90	SE 1	WNW 1	3	0	—	3	0	0.050	~ a. Δ 11.10a. (force 8) after 4p.	
20	596	495	41° 2	39° 1	29° 8	45° 3	200	176	78	75	NNE 2	NE 4	5	7	—	5	7	—	0.050	~ a. Δ 11.10a. (force 8) after 4p.
21	389	373	35° 2	33° 1	40° 4	166	158	80	68	NE 6	NNE 5	10	10	—	10	10	—	0.050	~ a. Δ 11.10a. (force 8) after 4p.	
22	456	587	40° 2	38° 0	31° 7	49° 1	159	176	64	77	NNE 2	NW 1	3	3	—	3	3	0.050	~ a. Δ 11.10a. (force 8) after 4p.	
23	733	874	44° 7	34° 2	33° 8	51° 4	227	159	77	80	WNW 1	WNW 1	6	0	—	6	0	0.050	~ a. Δ 11.10a. (force 8) after 4p.	
24	703	377	39° 6	39° 3	31° 0	43° 5	217	238	89	99	Calms	0	10	4	—	10	4	400	~ a. Δ 11.10a. (force 8) after 4p.	
25	29° 312	28° 810	47° 8	43° 3	34° 0	50° 0	245	271	74	97	WSW 3	SSW 2	3	10	—	3	10	700	~ a. Δ 11.10a. (force 8) after 4p.	
26	28° 763	29° 022	43° 0	42° 3	37° 6	48° 7	244	233	88	87	SSE 1	ESE 1	6	3	—	6	3	0.060	~ a. Δ 11.10a. (force 8) after 4p.	
27	134	220	44° 1	39° 0	39° 0	49° 6	251	231	86	98	NNE 3	WSW 1	9	3	—	9	3	130	~ a. Δ 11.10a. (force 8) after 4p.	
28	231	505	47° 0	42° 1	35° 0	51° 3	284	239	89	86	S 2	WSW 4	10	9	—	10	9	220	~ a. Δ 11.10a. (force 8) after 4p.	
29	690	785	52° 3	46° 9	38° 9	55° 0	295	312	75	98	SW 1	SSW 1	4	10	—	4	10	270	~ a. Δ 11.10a. (force 8) after 4p.	
30	29° 815	29° 906	51° 3	47° 3	46° 7	57° 0	330	304	88	94	SW 2	WSW 4	9	1	—	9	1	0.010	~ a. Δ 11.10a. (force 8) after 4p.	
31	30° 048	30° 173	53° 9	44° 1	43° 0	61° 1	311	251	75	86	W 2	W 1	5	0	—	5	0	—	0.010	~ a. Δ 11.10a. (force 8) after 4p.
31	30° 194	30° 164	53° 1	47° 1	37° 6	58° 9	296	274	73	85	W 2	W 2	2	10	—	2	10	—	0.010	~ a. Δ 11.10a. (force 8) after 4p.
Means	29° 807	29° 796	44° 6	41° 3	36° 8	50° 0	234	228	78° 3	86° 2	2° 5	2° 8	6° 1	5° 2	2° 070					



## MARKREE CASTLE.

Height above Mean Sea Level, 131 feet. Long. 8° 27' W. Lat. 54° 11' N.  
MARCH 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	36.2	49.1	29.9	52.5	ins.	ins.	92	93	SSE 2	SW 4	10	10	ins.	
2	30.154	30.072	40.1	46.1	45.2	57.0	326	293	93	94	S 1	W 2	10	10	—	
3	30.087	30.082	45.9	37.4	36.4	53.5	277	213	91	95	N 1	N 0.5	0	4	150	ga.
4	30.064	30.077	39.1	40.1	35.2	48.1	223	197	93	79	NW 1	NNW 3	7	10	190	ga.
5	30.088	30.124	44.0	39.7	37.4	48.5	242	214	83	88	NW 2	NNW 1	10	7	048	
6	30.033	29.844	44.1	42.7	39.6	49.6	254	246	87	89	NW 1	NW 4	9	7	084	
7	29.945	30.090	39.4	37.1	34.0	44.3	190	171	79	77	NW 4	NE 2	8	3	—	* a.
8	30.212	30.244	38.1	37.3	29.7	47.4	200	199	87	90	N 1	N 0.5	9	10	088	
9	30.071	30.005	47.4	47.3	36.1	53.0	307	278	94	86	WSW 2	W 1	10	10	010	
10	29.858	29.803	47.1	47.3	44.2	52.3	276	280	86	87	SW 3	SSE 3	10	10	156	
11	30.066	30.067	43.5	39.9	37.8	48.2	273	192	97	78	NW 3	SW 1	10	10	039	
12	29.816	29.833	46.9	44.1	38.7	49.4	240	215	76	74	NW 4	NW 5	8	0	045	sp.
13	29.777	29.655	51.1	48.9	42.1	55.4	293	281	78	81	NW 4	WNW 3	7	10	072	
14	29.624	29.655	45.3	41.3	40.6	50.5	257	220	85	85	WNW 3	WNW 3	9	4	078	
15	29.811	29.806	43.1	35.1	33.3	48.0	229	161	82	78	WNW 3	SW 3	5	5	125	
16	29.771	29.800	34.6	35.1	30.4	41.1	175	187	87	91	S 2	NW 3	10	2	327	* 1 inch deep at ga. p.
17	29.688	29.693	35.5	36.9	31.4	47.3	201	187	97	86	S 1	WSW 2	10	4	200	* 1 inch deep at ga. p.
18	29.692	29.672	35.1	34.6	33.0	48.7	187	158	91	78	NW 1	N 0.5	9	0	018	
19	29.696	29.687	38.1	32.1	24.4	49.4	203	169	88	93	N 2	N 1	1	0	005	
20	29.515	29.487	37.1	34.1	26.1	49.4	188	185	85	94	N 2	S 1	8	6	078	
21	29.486	29.637	33.9	35.8	28.4	49.4	167	164	85	77	S 0.5	Calm 0	0	6	057	
22	29.750	29.765	34.3	33.4	29.0	46.9	188	169	95	88	N 2	NE 1	9	0	060	
23	29.387	29.270	39.9	37.3	32.3	42.8	206	205	84	92	SE 3	N 2	8	10	391	
24	29.027	28.867	37.3	39.1	29.9	44.3	203	210	91	92	SE 3	ESE 4	7	10	418	
25	29.056	29.283	39.1	40.2	36.4	41.0	208	215	87	87	NE 4	NE 4	10	9	235	
26	29.337	29.226	41.5	40.4	37.9	44.2	218	218	84	87	E 3	ENE 2	10	10	—	
27	29.157	29.336	43.3	38.3	34.6	49.1	237	221	84	96	SE 2	SE 1	7	10	366	
28	29.570	29.730	42.1	39.3	30.7	51.3	251	221	93	92	SE 2	N 0.5	7	3	028	
29	29.799	29.878	39.1	45.3	29.2	56.0	213	259	89	86	NE 0.5	Calm 0	1	8	016	
30	30.023	30.064	43.7	45.3	31.5	54.5	265	259	92	86	SW 2	SW 2	10	8	006	
31	30.045	30.085	48.3	46.7	44.2	53.1	304	310	90	97	SW 2	SW 2	10	10	185	
Means	29.761	29.765	41.4	40.2	34.5	49.2	232	220	87.9	87.0	2.1	2.0	7.7	6.6	3.485	

## DUBLIN.

Height above Mean Sea Level, 51 feet. Long. 6° 15' W. Lat. 53° 20' N.  
MARCH 1877.

1	30.270	30.113	33.0	48.1	27.9	49.7	163	289	86	86	Calm 0	SW 3	10	10	019	ga.
2	30.081	30.070	51.3	49.1	48.0	53.5	342	329	90	94	WSW 2	WSW 1	7	10	456	ga. and before. ga.
3	30.025	30.082	47.0	43.9	43.4	49.6	306	245	95	85	NW 3	NW 1	10	0	014	
4	30.046	30.071	41.7	39.0	38.6	48.4	228	203	87	86	NW 2	NW 3	3	2	010	
5	30.070	30.101	39.7	38.5	34.3	46.7	207	192	84	83	WNW 3	NNW 2	8	0	—	
6	30.048	29.807	41.0	42.6	35.2	48.1	229	237	90	87	WNW 2	WbyN 3	7	7	020	
7	29.817	30.024	37.3	36.2	34.9	43.2	161	154	72	72	NNW 5	N 4	1	3	—	
8	30.171	30.238	36.0	38.1	30.9	41.4	172	161	80	69	NW 3	NNW 3	2	3	053	
9	30.094	30.024	40.0	47.1	34.0	49.7	222	302	90	93	WbyS 4	W 2	10	10	040	
10	29.936	29.907	48.4	47.2	45.8	50.2	298	271	88	84	SW 1	SSW 2	6	8	022	
11	30.095	30.104	46.0	43.1	42.8	50.3	272	258	88	93	Calm 0	NW 2	10	7	134	
12	29.808	29.832	48.8	44.0	40.3	52.7	278	224	80	77	W 6	WNW 6	7	3	021	
13	29.890	29.965	48.7	50.2	43.0	57.2	281	269	82	75	W 5	WNW 8	10	8	010	
14	29.944	29.996	49.1	44.0	43.6	52.3	302	224	86	77	WNW 4	WNW 4	8	2	—	
15	29.878	29.952	43.9	39.0	38.7	48.5	227	192	79	81	W 4	W 5	3	4	074	
16	29.519	29.512	36.2	35.0	33.5	42.2	171	172	80	84	W 5	WNW 4	6	3	036	
17	29.584	29.615	36.6	37.9	33.7	46.2	186	191	86	84	WbyN 4	NW 2	10	3	—	
18	29.612	29.633	39.2	36.1	33.4	46.3	184	192	77	90	WbyN 3	WNW 1	5	0	152	
19	29.688	29.613	34.2	34.6	30.0	43.3	174	163	87	81	N 1	Calm 0	0	0	—	
20	29.520	29.497	33.2	34.1	28.2	43.5	163	157	87	79	Calm 0	Calm 0	2	2	—	
21	29.470	29.606	38.3	38.0	32.0	45.6	185	201	80	88	WNW 1	NW 2	5	6	020	
22	29.756	29.814	35.9	35.1	30.8	44.6	176	167	83	81	WbyN 2	Calm 0	2	0	—	
23	29.525	29.178	43.2	40.0	32.6	44.5	200	226	72	92	WbyS 4	WbyN 5	8	8	260	
24	29.122	28.815	41.9	42.3	33.9	44.6	193	255	73	95	S 2	ESE 7	5	10	1150	
25	28.863	29.186	42.2	43.5	39.6	46.1	243	248	90	87	ENE 8	NbyE 4	10	9	050	
26	29.296	29.236	44.1	42.5	42.2	46.2	247	234	85	86	ENE 3	NNE 2	10	9	—	
27	29.200	29.378	45.0	38.0	37.4	48.5	251	210	84	92	SE 2	Calm 0	5	6	180	
28	29.615	29.748	43.5	41.5	34.1	51.6	227	239	79	91	WbyS 2	Calm 0	4	0	—	
29	29.808	29.870	45.1	45.0	34.9	51.1	259	273	86	91	ESE 2	ESE 1	2	5	—	
30	30.053	30.102	43.0	45.6	35.1	54.5	257	236	93	78	W 2	W 3	4	2	—	
31	30.094	30.095	49.0	50.0	44.4	53.6	283	293	81	82	W 4	WNW 3	9	8	020	
Means	29.771	29.770	42.0	41.6	36.7	48.2	229	226	83.9	84.6	2.9	2.7	6.1	4.8	2.741	

## BIRR CASTLE, PARSONSTOWN.

Height above Mean Sea Level, 182 feet. Long. 7° 55' W. Lat. 53° 6' N.  
MARCH 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	43° 6'	50° 0'	28° 6'	54° 2'	ins.	ins.	87%	92%	SE 1	SSW 0° 5'	9	10	ins.	
2	30° 198	30° 065	43° 6'	50° 0'	28° 6'	54° 2'	248	332	87	92	SW 0° 5'	S 0° 5'	10	10	040	
3	074	042	50° 6'	49° 7'	49° 4'	53° 3'	361	352	98	99	NNW 0° 5'	Calm 0	0	0	031	
4	102	097	44° 0'	38° 5'	38° 1'	53° 6'	252	221	87	95	WNW 0° 5'	WNW 0° 5'	3	2	—	
5	072	091	40° 7'	36° 8'	36° 7'	48° 5'	224	193	88	90	W 0° 5'	WNW 0° 5'	10	1	013	
6	129	152	40° 7'	37° 7'	35° 8'	49° 2'	226	211	89	93	WNW 0° 5'	W 1	7	3	038	
7	30° 071	29° 885	43° 3'	40° 5'	37° 1'	51° 3'	259	222	92	89	WNW 1	NW 1-3	0	8	003	
8	29° 929	30° 089	38° 4'	33° 3'	32° 4'	42° 5'	176	162	76	85	NW 1	Calm 0	4	10	027	
9	30° 217	30° 044	41° 8'	48° 0'	33° 7'	52° 1'	249	322	95	97	W 0° 5'	W 0° 5'	10	10	001	ga.
10	30° 137	29° 852	47° 6'	46° 2'	44° 0'	51° 9'	290	281	89	91	SSE 0° 5'	SE 1-2	10	10	013	
11	30° 083	30° 159	47° 7'	38° 0'	37° 9'	51° 2'	312	220	94	96	SW 0° 5'	WNW 0° 5'	10	5	035	before ga.
12	29° 891	29° 924	47° 3'	45° 0'	36° 4'	51° 8'	263	227	81	76	SW 1	W 2-3	10	10	—	
13	065	031	50° 1'	48° 8'	43° 0'	59° 1'	290	280	80	81	W 3-4	W 4-5	4	10	001	
14	990	037	49° 0'	43° 1'	41° 8'	53° 2'	320	235	92	84	W 1-2	WSW 1-2	10	8	009	ga.
15	913	094	44° 1'	36° 7'	36° 2'	49° 4'	245	173	84	80	SW 1	WNW 1	10	1	153	
16	553	570	36° 0'	34° 6'	31° 1'	40° 5'	182	171	86	85	SW 1	WSW 1	8	4	087	* showers a. and about Noon.
17	602	629	39° 0'	35° 4'	32° 3'	48° 4'	201	194	85	94	WSW 1	WNW 0° 5'	5	1	002	
18	634	649	38° 0'	33° 7'	29° 0'	45° 7'	197	190	86	98	SSW 0° 5'	W 0° 5'	8	10	071	3p.
19	707	610	34° 1'	31° 7'	24° 6'	46° 0'	148	160	75	90	Calm 0	Calm 0	0	0	001	
20	530	487	38° 6'	40° 0'	28° 2'	48° 8'	147	175	63	70	SE 0° 5'	NW 0° 5'	0	10	—	
21	474	638	38° 5'	37° 4'	31° 3'	48° 2'	189	208	82	93	Calm 0	Calm 0	7	10	040	op.
22	783	807	37° 3'	32° 8'	32° 8'	46° 8'	161	164	73	87	Calm 0	SW 1	8	0	003	op. Splendid U all the evening.
23	440	29° 303	40° 2'	37° 1'	32° 0'	44° 3'	220	205	89	93	SE 1	WNW 1-2	10	9	150	U op.
24	033	28° 759	38° 4'	41° 7'	31° 4'	49° 2'	193	246	84	93	SE 1	SE 0° 5'	10	10	459	
25	28° 881	29° 228	38° 6'	41° 7'	35° 9'	42° 9'	219	241	94	92	NE 1-2	NNE 1	10	10	209	
26	29° 307	314	39° 3'	41° 1'	38° 3'	46° 4'	233	216	97	84	NNW 0° 5'	ESE 1	10	10	060	ga.
27	140	370	44° 2'	35° 1'	33° 4'	46° 3'	244	197	84	96	SE 1	SE 0° 5'	10	0	250	* 1p.
28	596	730	45° 2'	41° 9'	30° 8'	54° 4'	255	239	85	91	SSE 0° 5'	SSW 0° 5'	5	8	016	
29	29° 792	29° 876	42° 5'	42° 5'	30° 0'	53° 4'	252	263	93	97	SE 0° 5'	Calm 0	7	10	308	op.
30	30° 070	30° 137	44° 1'	44° 2'	32° 4'	55° 6'	278	259	96	89	Calm 0	WNW 2	0	2	010	
31	30° 139	30° 141	47° 7'	48° 3'	42° 8'	53° 2'	285	299	87	89	WSW 1	W 0° 5'	10	10	003	
Means	29° 786	29° 793	42° 2'	40° 2'	34° 7'	49° 6'	236	227	86° 5'	89° 6'	0° 8'	0° 9'	6° 9'	6° 5'	2° 649	



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## DURHAM.

Height above Mean Sea Level, 335 feet. Long 1° 35' W. Lat. 54° 46' N.  
APRIL 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	10 a.m.	10 p.m.	10 a.	10 p.	Min.	Max.	10 a.	10 p.	10 a.	10 p.	10 a.m.	10 p.m.	10 a.	10 p.		
1	ins.	ins.	44.4	36.2	35.8	49.8	in.	in.	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
2	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
3	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
4	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
5	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
6	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
7	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
8	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
9	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
10	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
11	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
12	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
13	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
14	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
15	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
16	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
17	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
18	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
19	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
20	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
21	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
22	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
23	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
24	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
25	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
26	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
27	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
28	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
29	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
30	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	
Means	29.919	29.902	44.4	36.2	35.8	49.8	1.192	1.177	85	83	WNW 2.3	WNW 1.7	8	0	ins.	

## HAWES.

Height above Mean Sea Level, 800 feet. Long. 2° 11' W. Lat. 54° 18' N.  
APRIL 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.		
1	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
2	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
3	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
4	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
5	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
6	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
7	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
8	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
9	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
10	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
11	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
12	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
13	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
14	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
15	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
16	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
17	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
18	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
19	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
20	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
21	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
22	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
23	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
24	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
25	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
26	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
27	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
28	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
29	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
30	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	
Means	29.975	29.974	40.1	37.0	28.0	46.2	2.06	1.79	83	81	W 2	Calm 0	10	0	ins.	

## WAKEFIELD.

Height above Mean Sea Level, 96 feet. Long. 1° 30' W. Lat. 53° 41' N.  
APRIL 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	43°	43°	43°	48°	in.	in.	84	86	Calm	WNW	10	5	ins.	
2	29°920	29°935	43°	43°	43°	48°	1.240	1.247	84	86	Calm	WNW	10	5	—	⌒ <sub>θ</sub> .
3	°922	°687	43°	43°	43°	48°	1.246	1.246	84	86	SSW	SW	10	10	°090	
4	°494	29°051	49°	50°	48°	53°	°325	°358	93	99	S	SE	1	6	10	°750
5	°116	28°976	50°	49°	47°	57°	°299	°351	81	99	SSE	Calm	0	3	0	°030
6	°221	29°366	46°	43°	33°	50°	°277	°253	89	90	Calm	Calm	0	8	10	°010
7	°439	°467	47°	45°	36°	51°	°274	°285	85	93	SE	Calm	0	8	0	—
8	°590	°585	46°	45°	40°	56°	°274	°273	87	91	Calm	Calm	0	10	10	°060
9	°674	°650	42°	46°	35°	54°	°242	°284	90	92	NE	NE	1	10	10	°600
10	°611	°603	44°	44°	43°	48°	°292	°290	98	99	Calm	Calm	0	10	0	°030
11	°530	°554	44°	44°	42°	50°	°290	°261	98	90	Calm	N	1	9	7	—
12	29°705	29°930	40°	38°	32°	47°	°241	°207	97	88	ENE	Calm	0	6	10	°160
13	29°087	30°038	41°	40°	31°	44°	°188	°223	73	90	N	NE	1	10	10	°110
14	°229	°006	40°	41°	33°	42°	°246	°226	99	87	ENE	SE	2	10	10	—
15	30°207	30°181	43°	44°	39°	47°	°246	°265	88	92	ESE	SE	3	10	10	—
16	30°102	29°956	43°	43°	39°	49°	°230	°225	80	79	ESE	E	4	10	4	—
17	29°827	°876	44°	40°	34°	46°	°210	°184	72	73	E	E	2	6	5	—
18	°896	°823	42°	37°	36°	46°	°193	°178	73	80	NE	Calm	0	10	10	°050
19	29°795	29°889	38°	39°	36°	42°	°208	°203	90	83	NE	Calm	0	10	0	—
20	30°045	30°169	42°	41°	33°	53°	°218	°215	80	83	E	Calm	0	4	10	°090
21	30°240	30°160	46°	49°	31°	51°	°231	°271	75	77	SE	SE	1	10	10	°290
22	29°953	29°715	42°	47°	42°	49°	°257	°315	94	96	Calm	Calm	0	10	10	°800
23	°605	°554	47°	46°	41°	50°	°315	°315	96	99	W	NE	1	6	8	°070
24	°550	°575	45°	41°	39°	52°	°212	°244	70	93	NE	E	2	10	2	—
25	°736	29°870	43°	42°	40°	47°	°225	°238	79	87	E	Calm	0	5	0	—
26	29°969	30°015	42°	38°	28°	46°	°218	°200	82	87	E	Calm	0	10	10	—
27	30°039	30°054	41°	42°	38°	45°	°220	°240	84	89	E	E	2	10	10	—
28	30°031	29°932	41°	41°	39°	46°	°208	°204	80	79	ENE	E	2	10	10	°070
29	29°850	29°914	42°	40°	38°	44°	°222	°225	84	91	NNE	Calm	0	10	0	°020
30	29°935	30°066	43°	40°	37°	48°	°237	°233	85	92	N	Calm	0	8	10	°010
Means	29°810	29°797	43°	43°	37°	49°	°243	°251	84°	88°	1°	0°	8°	7°	3°	230



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## BUXTON.

Height above Mean Sea Level, 987 feet. Long. 1° 54' W. Lat. 53° 14' N.

APRIL 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	40°1	39°4	39°0	46°9	ins.	ins.	90	88	NW 2	NW 3	10	10	ins.	
2	29°016	29°996	42°3	46°4	35°0	48°1	239	284	89	91	W 1	Calm 0	10	10	070	
3	452	29°050	44°9	47°9	43°6	48°1	274	308	92	93	S 2	SW 2	10	10	220	
4	144	28°939	44°9	40°9	40°8	51°9	266	234	90	92	S 1	W 2	10	10	460	
5	224	29°357	42°6	37°9	35°0	49°0	237	208	86	91	SW 2	W 1	8	2	040	
6	453	452	44°7	40°7	37°2	48°7	255	217	86	85	SE 1	NE 1	8	8	—	
7	583	611	45°3	48°9	38°1	50°9	228	316	75	92	SW 1	S 1	8	10	—	
8	722	649	46°2	45°1	37°0	52°4	287	272	93	90	S 1	SE 3	9	10	110	
9	592	656	42°6	41°1	40°8	45°1	269	254	98	98	E 2	S 2	10	10	—	
10	672	680	47°9	45°0	41°9	49°9	319	273	97	91	SW 2	NW 2	8	10	—	
11	29°784	29°891	46°0	46°9	34°8	52°4	285	278	98	97	NW 2	NE 1	0	10	110	
12	30°035	30°106	38°9	39°9	38°0	47°9	217	230	92	94	SE 4	SW 3	10	10	190	
13	29°958	30°180	45°3	38°9	32°0	48°1	270	208	89	89	SW 1	SE 1	10	10	130	
14	30°137	30°180	39°5	40°0	36°8	41°0	214	226	89	92	SE 1	SE 2	10	10	030	
15	30°008	29°847	39°7	37°1	33°8	43°9	216	182	88	82	SE 2	SE 4	10	10	—	
16	29°744	802	40°9	41°8	34°9	47°9	180	225	70	85	SE 6	E 8	10	10	—	
17	766	814	38°8	32°9	32°5	43°4	210	168	90	90	E 8	E 8	10	8	—	
18	760	29°866	34°8	34°4	32°0	38°3	171	143	84	72	E 2	E 2	10	10	—	
19	29°993	30°218	33°6	32°5	32°5	48°0	164	164	85	90	E 4	Calm 0	10	1	—	
20	30°224	30°169	44°9	43°7	33°8	46°6	253	238	85	83	SE 1	SE 1	4	10	—	
21	29°928	29°728	39°9	47°1	30°1	48°8	216	292	88	91	SE 1	NW 2	10	8	395	
22	611	611	46°9	41°9	40°0	53°1	308	224	97	85	Calm 0	SW 2	10	10	480	
23	558	574	40°1	38°7	36°0	47°9	202	218	81	93	W 2	SE 1	6	10	100	
24	738	876	36°7	37°7	35°0	46°1	214	208	99	92	SW 2	SE 1	10	10	010	
25	934	996	41°6	38°1	33°7	46°8	221	189	85	82	SE 1	SE 2	6	10	—	
26	931	979	37°6	34°9	32°4	49°5	188	185	84	91	SE 3	E 3	10	10	—	
27	968	944	38°6	36°9	33°2	43°7	194	196	83	90	ENE 5	NE 8	10	10	—	
28	836	29°857	38°9	35°9	35°4	40°1	213	193	91	92	SE 4	E 1	10	10	020	
29	29°899	30°048	38°9	38°9	34°0	45°4	217	207	92	88	E 2	NE 2	10	10	010	
30	30°156	30°301	44°7	35°7	34°0	46°7	225	156	76	74	E 1	E 1	7	3	—	
Means	29°789	29°796	41°6	40°2	35°7	47°2	233	224	87°9	88°6	2°3	2°3	8°8	9°0	2°385	

## HILLINGTON, NORFOLK.

Height above Mean Sea Level, 88 feet. Long. 0° 33' E. Lat. 52° 48' N.

APRIL 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	29°962	29°936	45°2	42°7	42°1	49°7	247	239	83	87	NW 3	NW 1	10	9	—	
2	29°929	—	42°9	49°1	35°5	53°9	213	344	78	98	NW 2	W 2	1	10	—	
3	—	—	50°6	51°5	41°5	56°5	307	373	83	97	NW 7	S 6	9	9	—	
4	—	—	54°3	53°1	51°3	57°7	333	399	78	98	SW 3	SW 5	10	10	440	
5	—	—	48°1	40°6	36°1	59°8	280	244	84	97	S 4	SW 3	7	6	130	
6	—	—	48°4	43°6	40°3	54°8	309	276	91	97	S 3	SW 1	8	10	—	
7	—	—	47°9	44°0	40°4	55°2	283	284	86	98	SW 2	S 2	7	10	100	
8	—	29°664	55°8	46°4	39°3	56°4	394	305	88	97	S 1	SSE 3	9	9	192	
9	29°572	593	47°6	46°7	44°5	52°3	330	319	100	100	SE 1	ESE 1	10	10	035	
10	512	593	48°3	44°8	44°3	52°2	339	289	100	98	NW 1	NNE 0°5	10	7	046	
11	664	29°825	44°6	39°8	39°8	41°9	293	238	99	98	NE 1	E 3	10	6	010	
12	29°965	30°066	43°7	37°8	33°3	47°4	240	197	84	87	E 3	ESE 2	8	6	—	
13	30°004	227	42°8	38°4	37°0	48°2	262	214	96	93	SE 3	SE 2	10	2	—	
14	125	227	42°8	38°4	37°0	48°2	262	214	96	93	SE 3	SE 2	10	2	—	
15	30°186	30°006	46°5	41°0	35°9	49°3	234	197	75	77	SE 5	SE 6	3	1	—	
16	29°864	29°815	44°0	38°7	33°8	48°1	203	170	70	73	SE 6	SE 7	8	1	—	
17	764	725	43°4	40°6	37°1	48°3	208	207	74	82	SE 6	NE 6	8	9	—	
18	695	29°765	39°3	42°0	37°4	43°6	192	217	81	82	NE 5	E 4	10	9	—	
19	29°944	30°146	42°9	37°8	37°1	49°5	222	227	81	100	E 4	E 0°5	10	0	—	
20	30°235	30°206	51°8	44°5	29°1	60°9	280	263	73	90	SSE 0°5	SE 1	1	10	116	
21	30°075	29°794	43°1	45°4	42°8	46°4	269	304	97	100	SE 5	SSE 3	10	10	548	
22	29°664	593	46°9	42°9	42°3	55°4	322	276	100	100	SE 1	SSE 2	10	10	385	
23	553	604	46°0	42°3	39°0	55°3	249	261	81	97	W 1	SW 1	5	10	014	
24	692	838	45°8	31°9	31°9	52°7	262	180	86	100	NE 1	NE 0°5	10	0	—	
25	29°944	29°996	44°8	40°2	27°2	50°9	218	214	73	87	NE 2	NE 2	5	10	—	
26	30°015	30°026	45°9	41°1	37°9	48°7	267	244	88	95	ESE 2	NE 2	10	10	—	
27	29°995	29°865	43°4	39°8	38°0	51°7	226	208	85	85	ENE 3	NE 3	10	9	006	
28	784	845	42°5	38°8	38°4	48°6	250	212	92	90	NE 2	NE 1	10	10	023	
29	29°864	29°976	44°9	42°0	38°3	51°4	265	245	96	92	NE 3	NE 2	10	9	—	
30	30°105	30°237	44°2	39°9	39°1	50°7	215	212	74	87	NE 3	NE 4	10	10	028	
Means	29°791	29°792	46°1	42°4	38°2	51°7	266	255	85°0	92°7	2°9	2°6	8°3	7°7	2°293	

hail for 3 days.  
30.7.75

## UPPINGHAM.

Height above Mean Sea Level, 484 feet. Long. 0° 44' W. Lat. 52° 35' N.

APRIL 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	43°6	42°9	41°7	48°7	ins.	ins.	87	91	NW 3	NW 1	10	10	ins.	T p. △ p. a. and p. *° Sa. p. drizzle all day. Raining hard 3-45p. Wind backed to NW.
2	29°992	29°949	43°6	42°9	41°7	48°7	248	253	87	91	NW 3	NW 1	10	10	033	
3	948	790	44°8	49°6	36°3	54°0	222	310	75	88	NW 2	W 1	5	10	—	
4	544	122	47°8	50°3	44°7	51°6	291	342	88	94	S 3	S 1	10	10	278	
5	152	012	49°5	44°8	44°2	58°3	314	367	89	90	SSW 2	SW 4	10	10	176	
6	254	404	46°0	40°2	35°6	49°8	252	230	82	92	SW 4	SSW 2	9	2	117	
7	444	477	44°3	41°1	36°0	50°2	260	249	89	97	SSE 1	SW 1	8	10	126	
8	612	684	45°8	42°2	37°3	51°3	257	254	84	94	SW 1	Calm 0	7	10	392	
9	691	614	47°2	45°8	39°6	54°0	280	289	87	94	S 1	SW 1	10	10	118	
10	542	571	45°2	47°3	42°8	50°6	299	314	99	97	Calm 0	Calm 0	10	10	827	
11	595	567	44°8	47°9	43°0	55°6	285	255	96	78	N 1	W 1	10	6	—	
12	29°699	29°899	47°5	40°3	39°6	53°3	290	199	88	80	Calm 0	Calm 0	10	10	—	
13	30°059	30°033	41°7	37°8	32°9	46°3	208	210	79	93	Calm 0	SSE 1	7	6	030	
14	29°982	30°008	45°0	43°7	36°0	51°2	247	281	83	98	S 2	Calm 0	4	10	061	
15	30°114	30°190	42°8	40°4	38°3	48°7	257	222	94	90	NE 1	S 1	10	10	—	
16	30°115	29°947	44°8	41°9	36°0	50°2	216	207	72	78	SEbyS 5	ESE 3	10	10	—	
17	29°787	781	43°0	36°0	35°9	48°0	186	148	67	69	SEbyE 6	E by S 2	10	1	—	
18	768	720	43°5	36°8	34°0	44°6	192	183	68	84	E by N 3	NE 3	9	10	—	
19	684	775	38°4	38°5	36°0	41°3	183	192	79	83	ENE 4	NEbyE 4	10	10	—	
20	29°060	30°158	40°5	35°7	35°0	48°1	193	184	77	87	NE 3	NNE 1	10	0	—	
21	30°257	30°184	44°4	40°5	33°2	56°6	255	247	88	79	SE 1	Calm 0	6	10	110	
22	29°992	29°755	42°0	47°4	40°0	47°9	258	322	97	99	SSE 3	S by E 1	10	9	371	
23	622	555	51°5	46°9	43°3	60°5	319	307	84	96	WSW 1	NW 1	9	10	226	
24	530	505	46°1	37°7	35°0	51°2	220	214	71	95	WNW 2	Calm 0	6	5	038	
25	683	837	45°7	41°0	33°0	53°3	251	233	82	91	ENE 2	NE 1	9	0	001	
26	935	29°985	43°0	36°8	32°0	48°2	219	184	79	85	EbyN 1	ENE 1	8	2	—	
27	998	30°008	42°8	40°2	33°2	45°4	217	207	79	84	Calm 0	ENE 1	10	10	—	
28	966	29°841	42°1	38°3	36°7	49°7	203	196	76	85	ENE 4	ENE 1	10	7	016	
29	787	855	41°6	38°4	36°4	47°2	226	197	86	86	ENE 3	NE 2	10	10	—	
30	29°857	29°987	40°8	39°3	36°3	48°3	232	213	92	89	NE 1	NE 1	10	4	—	
30	30°138	30°265	41°6	38°5	35°4	48°0	206	182	79	78	NE 1	NE 1	10	10	—	
Means	29°785	29°780	44°3	41°8	37°3	50°4	243	240	85°2	88°1	2°0	1°2	8°9	7°7	2°920	



## CHURCHSTOKE.

Height above Mean Sea Level, 548 feet. Long. 3° 5' W. Lat. 52° 31' N.

APRIL 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	48.4	48.1	43.4	53.3	ins.	ins.	89	93	WNW 1	W 2	9	10	ins.	Gusty at 9p.
2	29.962	29.966	46.6	48.7	40.7	55.5	3.01	2.98	95	87	NW 1	NW 1	10	10	—	
3	4.16	4.06	46.3	51.0	45.0	51.4	2.99	3.07	96	82	SSW 0.5	SSE 1	10	10	—	● greater part of day.
4	0.93	0.06	47.1	40.7	40.0	51.5	2.58	2.17	80	85	E 1	SW 1	6	9	0.345	▲ p. ● 2 6.30p.
5	1.73	4.34	43.0	41.5	35.5	50.1	2.34	2.28	84	88	SSE 1	SE 2	8	9	0.095	
6	3.49	3.04	41.3	42.5	37.0	47.4	2.56	2.38	99	87	SE 3	SW 1	4	5	—	
7	6.03	5.86	41.1	43.4	35.3	50.8	2.36	2.48	92	88	ENE 1	Calm 0	10	1	1.127	
8	6.35	5.79	45.2	46.0	37.3	52.6	2.75	2.94	92	95	SSE 1	Calm 0	8	10	1.100	
9	5.41	5.90	45.0	44.0	37.0	52.8	2.97	2.78	99	97	Calm 0	Calm 0	10	10	1.115	☼ a. and after 5p.
10	5.49	5.78	41.9	46.8	40.2	56.5	2.66	2.94	100	92	Calm 0	Calm 0	10	7	—	☼ till 11a.
11	29.717	29.927	43.0	40.2	40.0	51.4	2.48	2.03	90	82	NNE 1	Calm 0	10	1	—	
12	30.041	30.009	39.5	42.5	37.0	45.5	1.87	2.41	78	89	SE 1	E 1	10	10	0.025	
13	29.974	30.000	44.8	45.6	39.0	49.0	2.54	2.77	85	91	ENE 1	Calm 0	9	10	0.098	
14	30.083	30.087	43.0	48.1	42.0	49.2	2.66	3.06	96	91	ESE 1	ESE 3	10	9	0.092	
15	29.988	29.743	44.2	45.1	42.1	51.4	2.65	2.27	92	75	SSE 3	SE 5	10	9	—	from ESE.
16	6.08	7.30	42.4	37.2	36.7	45.8	1.84	1.43	68	65	SE 6	ESE 5	10	1	—	Bitter wind. ✕ <sup>0</sup> p.
17	7.90	7.68	39.9	35.9	34.0	43.6	1.80	1.59	73	76	ENE 3	ESE 3	7	7	—	
18	29.746	29.847	37.9	37.5	33.4	40.3	1.91	2.08	84	93	NE 1	NE 2	10	10	0.010	
19	30.009	30.196	39.3	35.7	35.2	46.7	1.94	1.83	81	88	ESE 0.5	ENE 0.5	10	0	—	9p.
20	30.252	30.136	39.1	44.8	27.0	48.9	2.04	2.31	85	78	ESE 0.5	SSE 1	1	10	0.891	☼ a. ∞ 9p.
21	29.815	29.750	43.1	48.9	37.6	53.3	2.63	3.07	94	90	SSE 5	Calm 0	10	8	0.020	from SSE with ● from 1a.
22	6.03	6.21	51.8	41.4	40.3	56.9	2.97	2.32	77	90	WSW 1	WSW 1	5	8	0.078	
23	5.46	5.49	40.8	38.8	33.5	46.4	2.16	2.18	85	93	SSE 0.5	NNE 1	9	9	1.156	
24	7.10	7.95	41.0	45.7	31.8	49.6	2.39	2.38	94	83	Calm 0	SSE 1	9	5	—	
25	9.08	9.42	40.8	39.1	35.8	52.2	2.37	2.07	93	87	E 1	ESE 1	10	0	—	∞ <sup>2</sup> p.
26	9.78	9.85	40.6	42.5	33.0	45.6	1.87	2.28	74	84	E 1	ESE 1	8	10	—	∞ <sup>2</sup>
27	9.17	8.12	42.1	40.6	35.7	45.6	2.04	2.03	76	81	E 2	E 2	9	10	—	Bitter wind with ∞
28	8.12	29.878	39.8	39.8	37.3	44.7	2.09	2.07	86	85	ENE 2	ESE 1	10	10	—	
29	29.906	30.023	40.5	43.0	36.5	44.5	1.86	2.34	74	84	NNE 1	ENE 1	10	10	—	
30	30.170	30.322	39.0	40.7	36.6	51.2	2.00	2.05	85	81	E 1	ENE 0.5	10	10	—	Rather warmer. ∞ p.
Means	29.764	29.774	42.6	42.8	37.2	49.5	2.38	2.39	86.5	86.0	1.4	1.3	8.7	7.6	2.343	

## HEREFORD.

Height above Mean Sea Level, 274 feet. Long. 2° 45' W. Lat. 52° 5' N.

APRIL 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	30.031	29.979	49.4	49.3	46.0	56.5	3.04	3.18	87	91	W 1	W 3	9	10	—	
2	29.907	29.728	49.8	48.6	45.0	57.2	3.08	2.95	86	87	W 1	S 1	9	10	—	
3	4.09	0.38	48.0	51.2	46.0	52.1	3.03	3.33	91	89	SSE 1	S 3	10	10	0.220	
4	1.01	0.72	47.1	44.0	38.0	52.3	2.74	2.25	85	83	SSE 2	Calm 0	10	2	0.510	
5	1.90	3.58	44.9	42.1	36.6	51.6	2.63	2.39	89	90	SSE 2	Calm 0	8	10	0.125	
6	4.30	6.10	43.7	44.7	37.0	49.4	2.45	2.36	85	90	Calm 0	Calm 0	9	7	0.062	
7	5.84	5.79	44.9	42.9	35.4	51.9	2.63	2.45	89	89	S 1	Calm 0	9	1	0.094	☼ ga.
8	6.30	5.64	47.6	48.2	41.8	54.4	2.94	3.03	90	91	Calm 0	Calm 0	10	10	0.105	☼ ga.
9	5.16	5.55	47.7	48.5	45.0	53.8	3.06	3.29	93	97	Calm 0	Calm 0	10	10	0.010	☼ ga.
10	5.24	5.64	50.0	45.9	45.0	58.0	3.02	2.81	84	92	Calm 0	Calm 0	3	0	0.160	☼ 5p.
11	29.695	29.695	44.8	43.0	43.0	56.2	2.59	2.08	87	75	NNE 1	NE 1	10	4	0.008	
12	30.052	29.992	41.3	43.6	38.8	47.0	1.95	2.48	75	87	E 1	Calm 0	10	10	0.010	
13	29.964	30.000	47.2	47.1	37.5	52.5	2.57	2.93	80	91	Calm 0	Calm 0	7	10	0.017	
14	30.088	30.078	44.8	47.3	44.0	51.8	2.76	2.97	93	92	E 1	SE 1	10	10	—	☼ ga.
15	29.985	29.750	44.8	46.3	42.2	52.2	2.48	2.38	83	76	SSE 2	ESE 3	10	10	0.204	
16	6.12	6.69	43.7	38.7	37.0	47.0	1.88	1.50	66	64	ESE 2	ESE 3	10	0	—	
17	7.17	7.11	41.9	36.4	30.1	50.0	1.74	1.68	67	78	E 3	E 3	8	10	0.004	● ✕ 9p.
18	6.89	29.789	40.0	38.8	35.1	42.8	1.88	1.96	76	84	ENE 2	E 1	10	10	—	
19	29.980	30.166	40.2	38.9	38.0	47.0	1.99	1.97	81	84	E 1	Calm 0	10	0	—	
20	30.264	30.149	34.7	44.8	28.2	50.9	1.86	2.50	93	84	Calm 0	SSE 1	10	10	0.540	☼ ga.
21	29.869	29.752	44.7	48.9	40.5	58.5	2.79	3.12	94	91	SSE 1	Calm 0	10	8	0.007	
22	6.06	6.25	53.7	43.5	43.5	59.1	3.13	2.27	76	80	Calm 0	WNW 1	5	1	0.036	
23	5.43	5.28	45.5	39.6	35.4	48.6	2.14	2.25	71	93	W 1	SW 1	8	4	0.270	
24	6.90	7.89	46.7	43.9	31.9	53.0	2.44	2.38	77	82	Calm 0	Calm 0	6	0	—	☼ ga.
25	9.02	9.29	41.7	39.7	38.5	52.8	2.40	1.92	91	78	ESE 1	ESE 1	10	1	—	☼ ga.
26	9.66	9.49	44.5	44.2	33.5	48.4	2.04	2.21	70	75	ESE 2	ESE 1	5	10	—	
27	8.81	7.81	44.3	42.0	36.0	48.0	2.15	1.93	74	73	ESE 3	E 3	10	10	0.240	
28	7.80	8.44	41.5	41.0	37.2	48.5	2.25	2.08	87	81	E 2	E 2	10	10	0.005	✕ on Black mountains all day.
29	29.877	29.986	41.9	44.7	38.1	47.8	2.02	2.36	77	79	E 2	ENE 1	10	10	—	
30	30.160	30.281	41.7	42.0	39.0	52.9	2.04	2.16	79	82	E 1	E 1	10	10	—	
Means	29.757	29.754	44.8	43.8	38.8	51.7	2.46	2.44	82.5	84.4	1.1	1.0	8.9	6.9	2.627	

## AUDLEY END, ESSEX.

Height above Mean Sea Level, 154 feet. Long. 0° 13' E. Lat. 52° 1' N.

APRIL 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	44.9	45.4	44.5	50.2	ins.	ins.	92	89	NW 1	NW 2	10	10	ins.	☼ 4.3p. T p.
2	29.979	29.964	44.9	49.9	39.2	53.2	2.16	3.08	72	86	NW 2	SW 2	5	6	—	
3	5.52	1.97	52.4	53.2	45.2	55.0	3.04	3.56	77	88	S 2	SW 2	8	10	0.060	T p.
4	2.02	0.49	53.9	49.4	48.9	62.4	3.04	3.27	73	93	SW 3	SW 3	6	10	0.350	
5	3.22	4.46	48.9	44.9	41.3	53.7	2.67	2.49	82	89	S 2	S 1	8	2	1.100	
6	4.78	5.05	47.5	43.3	40.3	52.7	2.67	2.49	82	89	S 2	S 1	5	10	0.060	
7	6.69	6.66	47.9	44.4	37.5	54.4	2.63	2.69	79	92	SE 2	SW 1	8	4	0.050	
8	7.00	6.23	49.6	47.1	36.3	53.2	2.62	2.95	74	91	Calm 0	SE 1	10	10	0.300	
9	5.34	5.80	49.2	50.2	45.2	54.2	3.17	3.36	91	93	Calm 0	S 1	10	10	0.410	
10	4.99	5.94	47.9	46.7	46.2	54.4	3.16	2.99	95	94	NW 2	SW 1	10	0	0.020	
11	29.646	29.892	51.9	39.9	39.8	55.0	3.08	2.25	80	92	SW 2	N 2	4	0	—	
12	30.071	30.041	43.4	40.4	32.2	47.0	1.95	2.14	70	86	NE 2	SE 1	7	10	0.170	☼ in afternoon.
13	0.01	0.15	47.9	44.9	39.2	52.6	2.46	2.74	75	92	SE 2	S 1	7	10	—	
14	1.03	30.103	45.9	40.9	38.3	48.0	2.70	2.34	88	92	SE 1	SW 2	10	0	—	
15	30.194	29.957	49.1	45.6	38.0	50.0	2.40	2.17	69	71	SE 3	SE 3	10	10	—	
16	29.756	8.28	44.9	39.4	37.7	48.6	1.85	1.61	62	67	SE 3	NE 3	10	8	—	
17	7.82	6.42	42.9	39.1	36.0	44.0	1.88	2.14	68	90	NE 4	NE 3	7	10	0.020	☼ 2.30
18	6.62	29.746	39.9	40.4	37.0	42.5	1.84	2.01	75	80	NE 3	NE 2	10	10	—	
19	29.929	30.162	42.5	33.2	33.2	49.3	1.96	1.68	73	89	NE 2	Calm 0	10	0	—	
20	30.267	30.167	39.9	45.9	30.0	60.0	2.39	2.34	98	77	N 2	SE 1	5	10	0.070	☼ before ga.
21	30.048	29.756	44.7	47.4	43.6	48.0	2.77	3.16	93	96	SE 2	SE 1	10	10	0.200	
22	29.639	5.88	52.5	47.4	46.2	59.0	3.27	3.16	82	96	W 1	NW 2	7	10	0.300	☼ a. T ☼ in afternoon.
23	5.73	5.92	46.4	39.9	37.4	54.3	2.37	2.25	76	92	W 2	NW 1	5	4	—	
24	6.91	8.62	44.9	43.9	30.3	54.3	2.53	2.71	85	95	N 1	NE 2	5	7	—	
25	29.934	9.56	44.9	37.4	32.2	48.2	2.14	1.86	72	84	NE 2	NE 1	4	0	—	
26	30.038	9.68	45.1	42.7	32.2	49.0	2.21	2.22	73	82	NE 2	NE 3	10	4	—	
27	29.947	8.20	44.1	41.2	38.3	48.7	2.14	2.12	73	82	NE 2	NE 2	10	10	—	
28	7.52	8.43	46.4	41.4	40.3	48.0	2.13	2.19	69	85	NE 3	NE 2	10	10	—	
29	29.838	29.952	44.5	45.6	38.3	51.2	2.58	2.49	88	82	NE 1	NE 2	10	10	—	
30	30.102	30.272	43.6	41.7	40.5	48.4	2.14	2.07	75	79	NE 2	NE 2	10	10	—	
Means	29.797	29.786	46.4	43.8	38.8	51.6	2.49	2.51	78.6	86.9	1.9	1.7	8.0	7.1	2.200	



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## MARLBOROUGH, WILTS.

Height above Mean Sea Level, 471 feet. Long. 1° 43' W. Lat. 51° 25' N.

APRIL 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	49°6	49°3	45°0	55°3	in.	in.	83	95	W	0.3	10	10	ins.	
2	30°012	29°821	48°6	49°3	44°0	56°7	29°8	29°8	86	92	Calm	0	10	10	—	
3	29°480	29°154	49°2	50°3	45°0	52°5	29°8	29°8	87	95	S	0.3	10	10	—	
4	29°149	29°113	48°6	49°9	40°7	52°9	29°7	29°8	88	90	SE	0.6	10	10	—	
5	29°247	29°411	46°7	40°7	38°2	48°4	29°0	29°5	85	92	S	0.3	10	10	—	
6	29°447	29°528	47°1	41°8	37°6	50°7	29°5	29°8	82	91	S	0.1	10	10	—	
7	29°634	29°633	46°5	44°0	36°1	52°3	29°6	29°6	89	92	S	0.3	10	10	—	
8	29°665	29°580	49°9	45°2	41°0	52°3	29°5	29°7	83	96	S	0.3	10	10	—	
9	29°525	29°580	48°5	47°1	45°1	54°7	29°7	29°9	93	93	Calm	0	10	10	—	
10	29°548	29°614	50°1	47°9	42°4	59°0	29°8	29°6	88	90	Calm	0	10	10	—	
11	29°663	29°879	46°8	45°9	45°3	57°0	29°8	29°8	90	91	N	0.1	10	10	—	
12	30°045	30°025	42°8	43°0	36°0	50°0	29°0	29°0	84	84	E	0.3	10	10	—	
13	30°002	30°017	44°7	45°9	38°9	53°2	29°3	29°6	86	93	Calm	0	10	10	—	
14	30°112	30°133	44°7	45°3	37°4	56°0	29°1	29°1	95	93	E	0.1	10	10	—	
15	30°039	29°815	46°2	47°5	40°9	53°0	29°3	29°3	77	72	SE	1.2	10	10	—	Wind veered through the day from
16	29°632	29°625	43°9	38°9	38°9	48°1	18°6	14°5	65	62	E	3°0	10	10	—	SE to NW.
17	29°627	29°631	41°0	36°0	30°2	44°7	16°7	18°3	65	87	E	4°8	10	10	—	Cold wind, rough a.
18	29°631	29°737	39°9	37°7	34°6	42°3	19°3	18°3	79	80	N	1°2	10	10	—	8.30p.
19	29°919	30°150	41°5	41°7	37°2	50°2	18°4	20°4	71	78	N	1°2	10	10	—	
20	30°267	30°201	38°7	43°5	30°7	54°7	20°5	22°9	88	81	E	0.1	10	10	—	
21	29°959	29°812	45°0	47°7	41°5	57°1	28°3	30°8	94	94	S	0.3	10	10	—	
22	29°657	29°654	46°2	45°0	45°0	59°5	29°4	29°4	95	88	Calm	0	10	10	—	
23	29°591	29°574	46°5	40°3	35°5	52°2	21°7	22°5	69	91	W	0.1	10	10	—	
24	29°682	29°802	46°0	44°5	33°6	55°2	24°7	24°4	80	83	E	0.1	10	10	—	
25	29°904	29°924	43°4	40°2	37°9	54°7	24°1	20°7	86	84	E	0.1	10	10	—	
26	29°955	29°950	44°4	40°6	32°8	49°2	22°9	22°8	79	90	E	0.1	10	10	—	
27	29°863	29°733	44°4	41°9	36°4	49°5	22°9	25°7	79	97	E	0.6	10	10	—	
28	29°759	29°833	40°2	40°9	38°0	46°0	23°4	24°9	94	98	E	0.6	10	10	—	
29	29°862	29°950	40°3	43°9	37°4	48°8	20°8	25°6	84	90	E	0.1	10	10	—	
30	29°130	29°260	42°7	40°2	37°3	50°4	22°5	21°8	82	88	N	0.6	10	10	—	
Means	29°769	29°772	45°1	43°6	38°7	52°2	25°2	25°2	83°3	88°3	0°6	0°6	9°0	6°8	3°070	

## STRATHFIELD TURGIS.

Height above Mean Sea Level, 195 feet. Long. 1° 0' W. Lat. 51° 20' N.

APRIL 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	30°044	30°001	51°9	50°1	44°4	55°1	27°4	31°8	72	88	NW	2	10	10	—	
2	30°004	29°825	49°0	50°3	44°0	56°9	26°9	30°6	77	84	NW	1	10	10	—	
3	29°507	29°191	50°7	51°7	44°0	55°3	28°0	34°6	77	90	SE	1	10	10	—	
4	29°172	29°124	53°0	43°8	43°4	58°4	31°3	24°5	78	86	S	1	10	10	—	
5	29°278	29°429	45°9	43°5	40°8	52°7	26°5	24°9	87	88	S	1	10	10	—	
6	29°462	29°517	48°4	42°3	37°5	54°6	26°0	24°8	77	92	S	1	10	10	—	
7	29°644	29°650	49°3	43°5	36°2	52°8	27°2	26°4	77	94	SW	1	10	10	—	
8	29°675	29°668	52°9	46°6	38°8	53°9	30°8	29°8	77	95	S	1	10	10	—	
9	29°531	29°553	51°5	49°0	45°4	54°6	32°1	33°3	84	96	S	1	10	10	—	
10	29°540	29°599	52°5	48°1	44°6	60°2	31°3	28°7	79	86	NW	1	10	10	—	
11	29°677	29°871	47°4	46°1	45°0	60°1	30°3	25°0	93	81	NW	1	10	10	—	
12	30°038	30°034	44°1	42°8	36°8	51°6	20°5	23°6	70	86	Calm	0	10	10	—	
13	29°997	29°023	50°0	44°6	37°2	55°2	25°3	28°5	70	97	SE	1	10	10	—	
14	30°106	30°154	48°0	44°9	44°6	56°3	29°8	26°1	90	87	E	1	10	10	—	
15	30°080	29°861	48°8	49°0	40°0	55°1	23°5	22°4	68	64	SE	2	10	10	—	
16	29°688	29°647	44°9	40°3	39°7	49°9	27°0	13°6	91	54	SE	3	10	10	—	
17	29°621	29°581	43°5	36°4	35°3	46°1	16°2	19°5	58	91	NE	4	10	10	—	
18	29°615	29°755	41°4	39°2	34°3	43°1	19°5	18°8	76	79	NE	2	10	10	—	
19	29°887	29°131	43°5	43°0	38°7	52°0	20°1	21°5	72	78	NE	2	10	10	—	
20	30°259	30°207	41°9	44°8	38°9	56°4	22°5	21°7	86	73	NE	1	10	10	—	
21	30°007	29°808	46°1	49°0	42°0	54°4	29°5	30°2	95	87	SE	1	10	10	—	
22	29°663	29°634	51°0	46°6	42°0	60°2	32°2	26°1	86	83	SW	1	10	10	—	
23	29°596	29°585	45°9	36°0	36°0	56°1	22°3	19°2	73	91	SW	1	10	10	—	
24	29°660	29°804	47°8	45°3	30°8	59°0	24°0	24°0	73	80	NE	1	10	10	—	
25	29°906	29°924	46°5	40°1	34°5	55°0	25°0	19°5	80	78	NE	2	10	10	—	
26	29°946	29°957	47°3	40°5	33°0	51°3	23°2	20°2	71	81	NE	2	10	10	—	
27	29°885	29°740	47°8	43°3	35°2	51°5	21°8	21°9	66	78	NE	2	10	10	—	
28	29°742	29°824	43°0	42°8	40°0	49°3	25°5	23°6	92	86	NE	1	10	10	—	
29	29°837	29°933	43°8	46°1	39°0	51°3	23°0	26°1	80	84	NE	1	10	10	—	
30	30°094	30°250	47°5	41°5	40°4	53°1	24°1	20°7	74	80	NE	2	10	10	—	
Means	29°772	29°773	47°5	44°4	39°1	54°1	25°8	24°7	78°3	83°9	1°4	1°3	8°6	6°9	2°479	

## RAMSGATE.

Height above Mean Sea Level, 105 feet. Long. 1° 25' E. Lat. 51° 20' N.

APRIL 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	47°0	47°1	44°4	49°3	in.	in.	92	90	SW	4	SW	4	9	ins.
2	29°980	29°936	47°0	47°1	44°4	49°3	294	290	92	90	NW	4	SW	4	7	140
3	945	815	45°8	47°9	41°8	53°2	243	299	79	91	E	5	SW	5	9	120
4	574	243	47°7	51°6	44°5	52°2	280	366	85	96	SE	2	SW	7	5	530
5	248	090	53°7	47°0	46°8	57°4	329	287	80	90	SW	8	SW	6	9	090
6	380	491	47°0	46°2	43°9	51°1	265	278	83	90	SW	8	SW	6	8	060
7	529	533	47°1	42°5	41°0	51°6	272	245	84	90	SW	8	SW	6	8	060
8	697	686	48°1	46°8	41°2	51°7	280	270	84	85	SW	6	SW	1	5	3
9	725	537	50°2	47°4	43°8	51°5	322	307	89	94	S	4	E	5	6	410
10	531	549	50°0	48°1	47°1	61°4	338	322	94	96	S	5	SE	1	8	7
11	455	599	49°5	48°1	47°7	53°0	344	327	97	97	NW	3	SW	1	10	4
12	651	822	52°3	43°1	43°1	54°7	329	247	83	89	SW	4	NE	4	6	5
13	020	032	45°2	43°5	39°8	52°5	214	231	71	82	NE	5	NE	5	7	020
14	067	003	49°7	45°4	41°9	53°9	274	248	78	82	E	3	E	2	4	010
15	096	184	46°5	45°7	43°4	51°0	274	259	88	85	E	5	NE	6	10	10
16	151	051	46°1	46°8	41°9	52°2	265	303	86	95	E	5	E	8	0	5
17	800	681	42°0	42°0	41°8	47°7	272	265	99	99	NE	8	NE	8	9	0
18	575	502	43°1	43°2	38°3	45°2	278	279	100	100	NE	8	NE	8	4	10
19	557	633	40°9	42°0	38°2	40°1	256	267	100	100	NE	6	NE	6	10	9
20	814	070	44°2	43°9	38°1	47°1	206	244	71	85	NE	6	NE	4	8	9
21	206	208	51°4	45°3	41°6	55°9	361	279	95	92	N	3	NE	2	6	7
22	063	795	44°8	47°5	43°9	47°9	251	324	85	98	SE	2	SW	2	10	060
23	626	585	52°5	46°2	44°9	55°5	327	304	82	98	W	3	NW	2	7	270
24	571	688	48°1	42°0	39°6	52°1	237	243	70	91	SW	4	Caln	0	6	3
25	651	798	49°4	44°2	38°4	56°5	276	238	80	82	NW	2	NE	3	4	3
26	898	923	47°6	43°2	38°8	50°9	218	197	67	71	NE	4	NE	4	5	4
27	953	961	45°8	44°0	42°1	51°7	197	204	64	70	E	4	NE	5	10	2
28	878	722	47°0	45°5	43°7	50°5	224	234	70	78	NE	6	NE	8	7	6
29	641	763	45°3	43°8	43°6	46°2	247	252	82	88	N	5	NE	4	10	10
30	726	876	47°3	45°7	42°9	50°3	278	286	92	92	NE	4	NE	3	10	10
31	027	173	45°4	42°9	42°5	50°7	248	204	82	74	N	5	N	5	9	10
Means	765	759	47°4	45°3	42°4	51°8	273	270	83°5	89°0	4°7		4°3	7°3	7°0	2°290



## DARTMOOR.

Height above Mean Sea Level, 1,372 feet. Long. 3° 59' W. Lat. 50° 33' N.  
APRIL 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	43.8	45.6	41.0	46.0	in.	in.	100	100	W 4	W 4	10	10	ins.	9p.
2	30.118	29.894	45.2	41.6	41.6	49.6	.297	.263	99	100	NW 1	W 1	9	10	.030	9p. and before.
3	29.428	.183	44.6	44.0	41.4	47.0	.285	.288	97	100	SE 4	Calm 0	10	10	.400	9p. and before.
4	.129	.199	43.6	35.6	34.4	45.0	.284	.208	100	100	SE 4	NW 1	10	0	.820	a. and p.
5	.277	.443	39.4	37.6	34.0	45.2	.225	.217	94	96	SW 5	Calm 0	10	5	.200	Δ p.
6	.474	.612	38.2	38.6	34.0	43.6	.218	.227	95	97	S 1	W 1	10	5	.350	Δ p.
7	.620	.657	41.6	41.6	34.6	45.8	.232	.254	89	97	SE 4	SSE 1	10	10	.220	9p.
8	.650	.620	45.0	42.4	41.0	47.6	.279	.267	94	99	SSE 2	SSE 2	10	10	.260	
9	.600	.627	44.4	42.6	39.6	48.2	.283	.238	97	87	Calm 0	S 1	9	0	.010	
10	.596	.629	46.6	44.0	35.5	50.8	.271	.283	86	100	SW 1	SW 1	6	10	.440	
11	29.752	29.946	46.6	39.4	38.8	49.6	.279	.222	89	92	NW 2	NW 2	7	0	—	
12	30.048	30.064	40.6	39.2	36.8	41.6	.253	.239	100	100	SE 3	SE 1	10	10	.060	a. and p.
13	.039	.058	44.2	43.6	37.5	51.6	.280	.261	97	92	E 1	Calm 0	10	2	—	
14	30.100	30.119	49.4	43.0	41.2	53.6	.275	.264	78	95	Calm 0	E 4	8	10	—	
15	29.957	29.696	46.6	47.2	42.2	48.0	.275	.322	88	99	SE 4	SSE 4	10	10	.2970	
16	.506	.515	46.2	39.0	37.0	48.2	.313	.218	100	92	SSE 5	SE 10	10	1	.020	9p. Squalls p.
17	.597	.680	35.0	32.0	28.5	41.2	.142	.162	69	90	ENE 10	NE 9	10	1	.020	S.S.E. all night. ← Squalls all day. * p.
18	.722	29.821	34.6	34.6	31.0	40.6	.173	.181	86	90	NE 5	E 2	10	10	—	
19	29.976	30.217	38.0	36.0	33.5	43.2	.193	.183	85	87	E 4	NE 1	10	0	—	
20	30.262	30.214	46.2	41.2	31.8	49.6	.214	.250	70	97	Calm 0	S 2	3	10	.520	
21	29.965	29.900	48.2	45.6	39.4	51.2	.322	.296	96	97	S 2	SW 5	10	10	.380	9p. and p.
22	.768	.806	45.6	36.6	36.6	48.8	.306	.217	100	100	W 4	W 5	10	5	.330	
23	.708	.548	38.0	38.0	32.0	46.2	.201	.219	88	96	NW 4	SW 1	10	9	.130	a. and p. Δ all day. K 3p.
24	.744	.863	46.2	38.0	33.0	48.0	.241	.213	78	93	NNE 1	Calm 0	6	5	—	
25	.864	.889	44.6	40.2	33.5	48.6	.241	.236	82	95	E 5	E 7	8	10	—	
26	.927	.928	39.6	37.6	37.0	46.6	.238	.205	98	91	E 5	E 4	8	2	—	
27	.782	.723	39.6	39.4	36.6	44.6	.231	.241	95	100	E 8	SE 5	10	10	.1030	
28	.782	29.827	39.6	39.6	37.0	41.2	.243	.243	100	100	E 1	SE 4	10	10	—	all day.
29	29.896	30.028	36.6	36.6	35.6	46.2	.208	.197	96	91	E 3	NE 2	10	2	—	9p.
30	30.144	30.282	40.2	39.8	36.6	49.8	.216	.220	87	91	NE 1	E 2	10	5	—	
Means	29.788	29.805	42.6	40.0	36.4	46.9	.250	.238	91.1	95.5	3.1	2.7	9.1	6.7	9.370	

## BABBICOMBE, DEVON.

Height above Mean Sea Level, 293 feet. Long. 3° 31' W. Lat. 50° 29' N.  
APRIL 1877.

1	30.132	30.087	52.1	51.1	47.0	59.8	.306	.325	78	86	NW 3	NW 3	8	10	—	
2	30.039	29.816	51.7	47.2	47.2	56.6	.318	.301	83	93	NW 1	SW 2	8	5	.010	
3	29.385	.097	48.2	50.3	47.0	52.1	.315	.340	94	94	SE 3	SSW 7	10	10	.230	9p.
4	.054	.134	46.7	38.9	38.9	50.8	.311	.222	80	95	ESE 2	SW 1	10	4	.230	9.15a.—9.30a. Squalls, a. and p.
5	.198	.375	46.0	40.6	38.9	51.9	.245	.239	80	95	SSW 7	SSW 2	10	2	.200	Squalls, 9a. Δ 2.45p.
6	.405	.548	43.6	43.1	37.6	50.8	.274	.238	97	85	SSW 1	SW 4	10	5	.120	a. Δ 0 and squalls, p.
7	.571	.583	46.6	46.2	40.8	51.1	.273	.277	87	90	SSW 1	SSW 2	9	2	.260	Δ a.
8	.600	.541	49.9	45.8	44.3	50.8	.338	.302	95	98	SSE 3	NE 1	10	10	.030	9p.
9	.537	.559	49.8	47.6	42.4	54.0	.303	.323	85	98	SSW 1	SSE 1	9	9	—	a.
10	.538	.568	49.3	48.1	43.0	58.1	.334	.313	96	93	ESE 1	SSW 2	10	4	.070	9p. and p.
11	.689	.869	53.2	45.1	43.9	60.4	.316	.257	78	85	NNW 2	NNW 2	4	0	—	
12	.986	29.995	45.8	45.4	43.0	46.4	.270	.249	88	83	ESE 4	ESE 3	10	6	—	
13	29.972	30.005	47.1	46.7	45.0	53.0	.295	.309	91	97	E 1	Calm 0	10	7	.010	a. and p. Δ p.
14	30.071	30.065	49.2	48.1	44.7	53.8	.336	.298	97	89	NE 1	E 2	10	10	.010	a.
15	29.917	29.653	51.0	50.2	47.9	51.2	.322	.356	86	98	SSE 4	SSE 8	10	10	.1940	Squalls, with 9p. [high sea.
16	.460	.457	47.3	45.3	43.2	50.5	.324	.225	99	74	SE 4	E 9	10	10	.860	Squalls, a. and p. 2 after 1p. Very
17	.511	.593	40.7	38.6	37.3	45.6	.168	.178	66	76	ENE 10	NE 7	8	6	.010	Squalls, a. * p. 2 till 3p. Tre.
18	.634	29.728	39.3	40.4	36.5	45.8	.188	.186	79	75	NE 2	N 3	10	10	—	○ 10.30a. and 1.30p. [mendous sea.
19	29.904	30.131	43.4	44.1	39.0	49.1	.215	.210	76	72	NNE 3	NNE 4	10	0	—	
20	30.234	30.162	45.1	46.1	35.0	49.5	.238	.276	79	89	ENE 1	S 2	5	10	.300	○ 10 a.—3p.
21	29.871	29.831	54.0	50.2	44.1	64.1	.385	.336	92	93	WSW 4	WSW 2	9	9	.060	Squalls a.
22	.671	.737	51.9	42.3	42.3	59.2	.346	.225	90	84	WNW 1	WSW 3	9	2	.150	U 8.15p.—9p.
23	.619	.507	50.0	41.0	35.8	54.1	.259	.233	72	91	W 1	SW 2	8	5	.070	K in SW-S. 1 mile off, 0.45p.—1p.
24	.682	.785	46.5	44.0	39.3	53.0	.248	.241	80	83	NE 1	SW 1	9	4	—	[ (0.3 in. dia.) 2.12p. * p.
25	.876	.827	50.1	46.0	42.4	50.7	.275	.243	77	79	ESE 4	E 7	4	5	—	Two prismatic coloured spots 22° on
26	.876	.864	44.8	46.2	42.6	49.0	.250	.247	84	80	E 4	E 3	10	2	—	either side—horizontally—of sun.
27	.720	.660	46.0	43.3	43.2	47.1	.257	.278	84	100	E 7	ENE 4	10	10	.1230	Squalls, a. 2 midday. [5.30p.—5.45p.
28	.725	.766	42.4	46.1	42.0	46.1	.269	.261	99	84	NE 2	ENE 4	10	10	—	9p.
29	29.806	29.936	41.9	44.2	41.3	49.3	.220	.245	84	85	NE 4	NNE 2	10	7	.010	
30	30.108	30.230	43.9	47.1	42.1	52.1	.232	.256	81	79	NE 2	ENE 2	10	8	—	
Means	29.725	29.737	47.3	45.3	41.9	52.2	.281	.266	85.8	87.4	2.8	3.2	9.0	6.4	5.800	

## ST. AUBIN'S, JERSEY.

Height above Mean Sea Level, 139 feet. Long. 2° 10' W. Lat. 49° 11' N.  
APRIL 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	49.7	49.1	45.2	56.6	in.	in.	100	100	W 2	W 2	10	10	ins.	
2	30.202	30.159	49.7	49.1	45.2	56.6	.316	.324	89	93	NW 1	Calm 0	5	0	.017	Δ p.
3	30.086	29.889	55.5	47.3	46.8	58.3	.365	.304	83	94	SE 3	SW 4	10	8	.072	Δ 0 p. 10p.
4	29.472	.261	48.7	52.1	46.2	54.0	.311	.337	91	86	SE 3	SW 4	10	0	.345	
5	.125	.277	49.8	45.5	43.5	52.8	.337	.252	94	83	SbyW 5	SW 4	6	0	.080	in squalls, a. ○ 11a.—Noon.
6	.353	.485	48.2	45.2	41.8	51.8	.255	.245	76	82	SbyW 4	W 4	10	0	.042	in squalls. Δ 0 p.
7	.499	.676	45.4	46.0	43.0	51.8	.253	.255	84	83	SW 3	SE 1	10	0	.200	Very fine. 4.15p.
8	.673	.678	46.9	48.3	43.5	52.8	.295	.287	93	85	SE 1	SW 2	10	2	.354	
9	.672	.561	47.1	48.2	46.2	50.9	.310	.328	96	98	S 1	Calm 0	10	0	.025	a.
10	.577	.606	48.8	47.5	44.3	50.3	.335	.318	97	98	SW 2	SW 2	7	2	.039	a. ○ 11 till 1p.
11	.589	.687	50.3	48.3	44.9	55.4	.336	.309	92	92	W 4	Calm 0	10	0	—	9p. Glow-worm seen.
12	.741	.907	50.1	46.4	45.9	55.7	.331	.306	91	97	SE 3	E 3	9	0	—	a. and p.
13	.993	29.976	48.6	46.5	44.4	54.0	.299	.283	88	91	E 1	Calm 0	5	0	—	9p. Δ a. Very fine day.
14	29.978	30.030	51.6	47.7	44.2	58.2	.291	.272	76	82	E 1	Calm 0	5	0	—	
15	30.089	30.075	50.8	52.8	44.6	58.8	.274	.304	74	76	NE 1	ESE 4	10	3	—	9p.
16	29.997	29.771	51.3	51.7	49.5	54.2	.298	.373	79	97	SE 4	S 3	10	10	.828	Cuck



OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

DUBLIN.

Height above Mean Sea Level, 51 feet. Long.  $6^{\circ} 15' W.$  Lat.  $53^{\circ} 20' N.$

APRIL 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.			
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.					
1	ins.	ins.	30°061	30°049	50°6	50°1	47°7	53°2	in.	in.	°/o	°/o	WbyN 3	WNW 4	10	7	ins.		
2	29°947	29°640	50°2	50°2	48°1	57°6	335	330	302	93	84	90	85	W 3	W 3	10	10	°024	
3	332	28°978	46°7	42°3	41°9	51°4	286	253	90	94	NNW 1	WNW 2	10	10	10	10	°14	Very fine and warm p.	
4	°036	28°998	42°9	41°0	39°9	44°5	256	223	93	87	Calm	o	Calm	o	10	5	°580	Incessant 2 throughout.	
5	°028	29°245	46°2	48°6	37°8	49°2	248	223	80	82	SSE 3	S 1	5	2	°074	Red sunset.			
6	388	473	45°2	42°4	37°2	50°8	269	245	90	91	SE 2	S 1	6	0	°045	3.30p.			
7	°518	533	47°3	44°1	36°1	49°6	273	266	85	92	SE 2	SSE 2	7	4	°030	showers, a.			
8	°584	573	47°8	47°1	43°9	52°3	306	297	92	92	SE 2	ESE 2	9	10	°129	8a.			
9	°536	562	48°1	46°9	45°0	53°1	301	281	90	88	ESE 2	ESE 1	9	4	°411				
10	°559	629	47°7	44°2	43°0	48°3	292	242	89	83	E 2	NE 1	10	10	—	○ 2p.			
11	°771	976	44°8	45°3	40°2	49°4	210	233	71	77	N 1	E 2	9	5	°146	ga.			
12	°980	927	45°2	44°3	42°8	47°4	260	279	92	96	E by S 2	S 1	10	7	°820	p.			
13	°928	983	45°8	46°1	43°3	49°3	389	300	94	96	SE 2	ENE 3	10	10	°031	a. and p.			
14	°990	°954	49°3	50°3	45°6	56°6	341	288	97	79	ESE 2	S 3	10	9	—	a.			
15	°760	°544	49°2	47°8	47°4	51°2	313	306	90	92	SSE 4	SE 6	10	10	1°095	Very squally. a. and p.			
16	°429	°058	46°3	43°4	43°0	47°9	288	180	92	64	SE 7	E 8	10	4	°220	2 a. and p. [3.30p]			
17	°851	°836	45°0	42°7	39°7	47°8	206	170	69	62	E 6	ENE 4	4	7	°105	in squalls, a. and p. Humidity 55%			
18	29°831	29°928	39°2	43°1	37°9	43°9	207	216	86	78	E 3	ENE 3	10	10	°054	Frequent * occasionally till 4p			
19	30°086	30°184	45°0	41°1	41°0	48°5	216	214	73	83	NE 3	Calm	o	7	2	—	∞ p. Partial up.		
20	30°178	29°988	47°5	45°3	38°2	48°8	238	272	73	90	SE 2	SSE 3	8	10	°642	a.			
21	29°765	°690	51°1	50°8	45°0	57°3	345	324	91	87	W 3	WbyS 1	8	9	°170				
22	°633	°590	51°4	40°9	40°3	54°6	331	198	88	78	W 3	W 3	3	9	1	°024	"Festooned" clouds, 6.30p.		
23	473	°600	43°0	41°7	38°2	47°2	219	221	79	85	ESE 1	NNE 2	2	9	0	°021	∞ p.		
24	°700	°717	45°3	45°4	36°0	53°2	252	253	84	84	NNE 1	SE 2	8	7	—	∞ till 9a. ○ 4p.			
25	°806	°806	50°0	47°2	44°9	52°7	269	277	75	86	SE 3	ESE 3	9	8	—	○ p.			
26	°935	°909	48°2	46°6	43°0	51°5	233	221	66	86	E by S 4	E 5	6	5	—	all day. Breeze freshening p.			
27	°832	°774	47°1	45°5	43°9	50°9	217	223	67	73	E 1	E 7	5	4	°013	a. and p. Squalls from E.			
28	°811	29°877	44°3	45°3	42°1	46°5	221	220	75	72	E 4	E by S 6	9	10	—	p.			
29	29°987	30°096	43°0	44°3	40°9	48°3	217	239	79	81	ENE 3	NE 3	9	10	°059	ga.			
30	30°221	30°329	48°1	46°0	41°3	50°9	240	231	71	75	ENE 3	ENE 2	4	8	—				
Means	29°732	29°738	46°7	45°1	41°8	50°4	267	252	83°5	83°3	2°7	2°8	8°4	6°6	4°707				

BIRR CASTLE, PARSONSTOWN.

Height above Mean Sea Level, 182 feet. Long.  $7^{\circ} 55' W.$  Lat.  $53^{\circ} 6' N.$

APRIL 1877.

1	30°11'S	30°09'S	49°6'	49°8'	47°3'	53°7'	*332	*335	94	93	W	0°S	WNW 3	10	10	—
2	29°06'S	29°01'S	46°7'	46°7'	46°3'	54°3'	*348	*293	92	92	WSW	0°S	WSW 1	10	10	*070
3	*331	29°02'	42°2'	39°2'	39°2'	47°5'	*299	*232	89	96	NE	1	WNW 0°S	10	10	*263
4	29°01'S	28°07'S	41°0'	39°3'	39°2'	50°3'	*231	*217	90	91	Calm	0	ESE	0°S	10	1
5	28°07'	29°21'	43°7'	37°9'	37°9'	49°5'	*244	*209	85	92	SE	0°S	SE	0°S	10	1
6	29°34'	*436	44°6'	40°3'	32°0'	53°4'	*276	*223	94	90	SE	1	SE	0°S	4	0
7	*341	*477	48°2'	44°6'	37°1'	51°9'	*257	*254	77	86	ESE	0°S	ESE	0°S	7	10
8	*517	*522	51°0'	45°2'	42°0'	53°5'	*297	*275	79	92	SE	0°S	E	0°S	8	10
9	*497	*524	50°3'	46°0'	37°7'	58°5'	*288	*272	79	88	SE	1	SE	0°S	8	9
10	*522	*610	46°2'	44°0'	30°7'	56°0'	*299	*257	96	89	E	0°S	E	1	10	4
11	*768	*875	45°2'	43°6'	40°2'	55°1'	*262	*261	88	92	WNW	0°S	E	1	10	7
12	*932	*923	44°3'	46°7'	42°6'	56°4'	*261	*291	90	95	SE	0°S	ESE	0°S	10	7
13	*868	*961	48°4'	48°4'	44°5'	59°3'	*330	*321	97	94	SE	0°S	SE	0°S	10	10
14	*954	*828	53°6'	50°0'	46°3'	61°2'	*330	*314	80	87	SSW	0°S	SE	2	7	10
15	*599	*431	51°1'	50°5'	47°3'	56°2'	*345	*336	91	91	SSE	3-4	SE	2-3	10	10
16	*303	*549	51°6'	44°3'	40°1'	53°2'	*343	*211	90	71	SE	3-4	SE	5-6	10	10
17	*815	*847	46°0'	37°4'	35°0'	50°3'	*188	*185	61	83	E	3-4	Calm	0	3	8
18	29°85'	29°04'	38°7'	40°6'	34°9'	45°7'	*200	*218	86	87	NE	1-2	NW	0°S	10	10
19	30°08'	30°18'	44°2'	40°8'	35°4'	54°6'	*207	*217	71	86	ENE	0°S	Calm	0	8	9
20	30°128	29°80'	46°0'	46°7'	40°8'	48°1'	*225	*289	73	91	SE	0°S	SE	1	10	10
21	29°780	*673	50°2'	48°6'	46°3'	58°3'	*337	*302	93	89	SW	0°S	Calm	0	8	7
22	*695	*589	46°7'	37°1'	36°7'	53°6'	*261	*209	82	95	WSW	0°S	W	2	8	4
23	*418	*573	40°5'	43°9'	36°2'	49°9'	*233	*240	93	84	WSW	0°S	Calm	0	10	10
24	*671	*628	48°5'	46°3'	33°1'	55°5'	*247	*258	72	83	SSE	0°S	SE	2	3	10
25	*724	*797	50°4'	48°5'	45°7'	56°2'	*318	*251	88	74	SE	1	ESE	1	10	10
26	*836	*824	45°7'	46°0'	43°0'	50°5'	*224	*221	73	72	E	3-4	E	1-2	10	10
27	*734	*717	48°1'	44°5'	40°5'	53°6'	*219	*238	65	81	SE	3-4	E	2	10	10
28	*762	29°859	43°0'	42°0'	39°5'	45°4'	*223	*252	80	94	E	1-2	E	2	10	10
29	29°078	30°105	43°7'	38°0'	37°4'	49°2'	*205	*203	73	89	ENE	1	E	1	10	10
30	30°216	30°302	46°6'	46°0'	34°5'	56°2'	*243	*236	77	77	NE	0°S	SE	0°S	5	10
Means	29°09'6	29°7'00	46°6'	44°1'	40°0'	53°2'	*267	*254	83°4	87°5	1°1		1°1	8°6	8°2	3°006

GLENALMOND.\*

Height above Mean Sea Level, 529 feet. Long.  $3^{\circ} 40' W.$  Lat.  $56^{\circ} 27' N.$

MAY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	37°	38°	32°	42°	in.	in.	%	%	NW	NW	3	7	6	ins.
2	30° 44'5	30° 38'3	37°	38°	32°	42°	173	178	79	77	2	NE	5	7	6	—
3	247	235	42°	37°	29°	51°	261	217	68	98	SW	NE	5	2	8	Stormy and cold evening.
4	247	236	39°	30°	30°	45°	234	192	98	91	NE	E	2	3	7	✱ <sup>0</sup> at night.
5	30° 14'3	30° 04'7	39°	30°	27°	46°	218	162	92	82	SW	N	4	5	2	—
6	29° 17'3	29° 56'2	38°	30°	27°	46°	199	176	87	70	NW	ESE	2	2	7	—
7	790	718	39°	36°	30°	49°	196	201	80	95	SW	SW	2	8	1	140
8	789	825	43°	39°	30°	48°	197	181	71	77	SW	SW	2	4	1	—
9	856	822	46°	39°	29°	53°	243	234	79	98	E	NE	5	1	7	Stormy cold evening.
10	786	782	46°	41°	35°	52°	224	257	73	100	E	E	5	4	3	Stormy and cold.
11	762	778	47°	41°	39°	53°	319	253	98	98	E	NE	5	5	4	Stormy and cold. Very red sunset.
12	777	755	46°	40°	36°	52°	298	247	97	100	NE	NE	6	4	5	Stormy and cold.
13	766	754	42°	42°	38°	53°	267	265	100	98	NE	E	1	8	10	230
14	600	753	47°	43°	40°	53°	278	273	86	98	E	E	3	8	10	020
15	727	752	42°	41°	39°	53°	256	260	96	100	E	E	1	10	6	∞ a.
16	801	784	41°	44°	39°	55°	252	288	98	100	E	E	1	10	10	060
17	014	864	45°	48°	41°	62°	295	302	98	89	E	S	2	10	5	060
18	774	626	52°	45°	45°	59°	316	277	80	90	SE	SE	2	8	10	810
19	612	29° 62'6	51°	45°	42°	58°	284	294	76	96	W	W	1	8	10	220
20	29° 92'7	30° 18'7	49°	44°	42°	62°	296	289	85	98	ENE	NNE	3	9	9	—
21	30° 30'1	358	48°	44°	44°	58°	242	205	72	70	N	N	2	8	4	Lovely day, but cold wind.
22	415	457	53°	41°	41°	61°	247	186	62	72	NE	NE	2	3	1	Lovely day.
23	426	410	46°	40°	33°	55°	208	187	67	75	NE	NE	2	5	2	Lovely day.
24	371	354	49°	42°	31°	56°	212	239	60	88	E	W	1	8	10	—
25	280	239	50°	47°	38°	60°	269	247	75	77	S	NNW	3	7	10	—
26	179	30° 13'0	51°	47°	41°	59°	251	249	67	78	WNW	NW	3	9	2	—
27	30° 06'2	29° 8'6	51°	46°	39°	55°	247	317	63	99	W	W	1	6	10	230
28	29° 49'9	29° 12'0	48°	49°	45°	51°	334	343	99	97	W	SW	2	10	10	580
29	28° 8'05	28° 8'61	48°	45°	45°	55°	307	268	92	89	SW	W	5	8	9	260
30	29° 09'0	29° 13'2	43°	45°	38°	51°	256	259	90	85	W	W	6	3	10	070
31	246	452	50°	45°	43°	56°	275	248	77	82	W	W	2	9	3	—
32	29° 58'4	29° 63'3	51°	47°	37°	56°	272	296	72	90	SW	SE	3	5	10	740
Means	29° 590	29° 867	46°	42°	37°	53°	256	245	82°	88°	3°	2°	6°	6°	3°	560

\* NOTE : Observer remarks that wet-bulb readings 1st to 19th, taken in his absence are somewhat doubtful.

DURHAM.

Height above Mean Sea Level, 335 feet. Long 1° 35' W. Lat. 54° 46' N.

MAY 1877.

	10 a.m.	10 p.m.	10 a.	10 p.	Min.	Max.	10 a.	10 p.	10 a.	10 p.	10 a.m.	10 p.m.	10 a.	10 p.	10 a.m.
1	30° 38'	30° 37'	38° 38'	34° 2'	41° 6'	164	186	70	86	N	1° 3'	SW	0° 7'	10	10
2	251	196	47° 7'	36° 1'	34° 4'	53° 1'	175	200	53	94	SSW	0° 6'	NE	1° 1'	1
3	194	30° 199	38° 4'	31° 7'	30° 3'	41° 9'	171	143	74	79	NE	0° 8'	NW	0° 4'	10
4	30° 114	29° 976	40° 9'	36° 3'	26° 8'	198	190	78	89	NNW	0° 7'	NW	1° 3'	8	6
5	29° 906	903	41° 2'	32° 2'	30° 4'	45° 0'	179	172	69	94	NE	3° 1'	SSW	0° 5'	7
6	824	770	46° 7'	41° 3'	27° 7'	52° 5'	189	215	60	83	SSE	2° 4'	S	2° 9'	5
7	805	822	50° 2'	42° 7'	34° 3'	56° 3'	247	257	68	93	S	0° 3'	SSW	0° 5'	6
8	773	756	54° 5'	39° 6'	36° 2'	56° 7'	269	229	64	94	SSE	0° 8'	ENE	0° 8'	2
9	641	633	45° 1'	43° 2'	37° 3'	50° 5'	279	271	93	96	ENE	3° 8'	ENE	1° 2'	10
10	642	626	43° 7'	42° 3'	41° 6'	44° 9'	275	270	96	100	ENE	1° 8'	ENE	1° 1'	10
11	686	660	42° 4'	42° 7'	39° 6'	42° 9'	248	274	91	100	NNE	3° 2'	NE	2° 0'	10
12	597	687	47° 8'	44° 1'	42° 3'	51° 1'	322	287	97	99	ENE	0° 9'	BNE	0° 5'	10
13	713	716	45° 2'	43° 2'	42° 2'	52° 6'	271	266	90	95	NNE	0° 8'	NE	0° 7'	10
14	684	734	41° 9'	42° 8'	40° 5'	45° 8'	253	262	95	96	NE	0° 8'	E	0° 4'	10
15	793	906	46° 8'	43° 9'	41° 1'	49° 6'	282	256	88	89	ESE	0° 8'	WSW	0° 7'	10
16	940	919	54° 5'	45° 3'	40° 4'	63° 0'	306	298	72	99	SSW	2° 0'	S	0° 8'	9
17	740	592	52° 7'	47° 4'	44° 2'	54° 8'	351	296	88	91	SE	0° 7'	W	0° 9'	10
18	711	29° 728	53° 2'	45° 4'	44° 2'	58° 9'	313	267	77	89	SW	3° 5'	WSW	0° 8'	9
19	29° 762	30° 102	45° 8'	43° 1'	42° 7'	51° 2'	309	278	100	100	NE	2° 6'	N	3° 0'	10
20	30° 204	263	46° 2'	43° 2'	41° 4'	47° 3'	267	271	86	96	NNW	2° 4'	NNE	1° 7'	10
21	348	388	44° 5'	41° 2'	40° 7'	47° 2'	233	231	79	90	NNE	5° 1'	N	3° 0'	10
22	336	340	45° 5'	39° 6'	39° 0'	49° 3'	235	211	78	87	NNE	3° 0'	N	1° 0'	9
23	284	298	45° 7'	39° 9'	35° 6'	48° 7'	229	234	76	95	NNE	2° 9'	N	1° 2'	8
24	264	213	53° 8'	45° 7'	35° 8'	59° 4'	304	291	73	95	NE	1° 3'	S	0° 8'	7
25	158	30° 138	57° 8'	47° 1'	43° 4'	61° 4'	319	246	67	76	NNW	4° 8'	WNW	1° 2'	7
26	30° 070	29° 835	56° 7'	48° 2'	39° 3'	60° 8'	310	283	68	85	WNW	2° 2'	WSW	1° 2'	5
27	29° 669	187	50° 6'	51° 4'	46° 0'	58° 8'	316	366	86	96	S	3° 0'	S	5° 3'	10
28	28° 864	079	50° 8'	44° 4'	42° 6'	56° 8'	336	276	90	95	SSW	5° 5'	WSW	2° 4'	10
29	29° 306	323	46° 7'	45° 7'	39° 2'	58° 0'	289	251	91	82	SW	5° 2'	SW	2° 7'	8
30	387	567	51° 2'	43° 6'	42° 1'	57° 4'	281	234	75	82	WSW	3° 7'	SSW	0° 8'	8
31	29° 610	29° 579	59° 8'	52° 0'	38° 5'	62° 0'	342	310	66	80	E	0° 6'	E	1° 2'	7
Means	29° 859	29° 855	48° 0'	42° 6'	38° 5'	52° 7'	267	252	79° 3'	91° 1'	2° 2'	1° 4'	8° 3'	6° 5'	3° 184

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## HAWES.

Height above Mean Sea Level, 800 feet. Long. 2° 11' W. Lat. 54° 18' N.

MAY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.				
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.					
1	ins.	ins.	30° 44.0	30° 43.3	30° 9	33° 0	31° 0	43° 6	142	160	66	86	N	1	Calm	0	10	10	ins.	✱ <sup>0</sup> a. and p. ☐ gp.
2	307	206	42° 1	42° 1	38° 7	32° 0	53° 0	153	168	58	72	Calm	0	SW	1	4	1	1	—	☐ <sup>0</sup> gp.
3	228	244	38° 0	38° 0	30° 0	25° 0	42° 0	165	140	72	66	E	1	Calm	0	10	0	0	—	☐ <sup>0</sup> 7a. ✱ <sup>0</sup> in day. — <sup>2</sup> Midt.
4	30° 130	30° 016	30° 0	30° 0	36° 0	21° 5	48° 4	165	188	70	89	Calm	0	Calm	0	8	5	5	—	☐ <sup>2</sup> 10.45a.
5	29° 948	29° 949	37° 5	30° 7	27° 1	45° 3	147	130	66	75	NNE	1	E	1	8	0	0	0	0	✱ <sup>0</sup> a. and p. ☐ gp.
6	857	807	43° 4	41° 5	23° 0	50° 6	144	176	51	68	Calm	0	WSW	2	2	7	—	—	—	☐ <sup>1</sup> a. ☐ <sup>0</sup> up valley, gp.
7	845	857	45° 5	40° 0	30° 9	53° 0	225	190	75	77	Calm	0	W	1	10	10	10	10	—	
8	796	759	50° 0	38° 9	28° 1	58° 0	261	170	73	73	Calm	0	E	3	3	0	—	—	—	
9	632	615	45° 5	42° 8	35° 1	52° 2	265	255	88	93	ENE	2	ENE	3	10	10	10	10	020	Scotch ☐ <sup>0</sup> ga. and during day.
10	618	620	44° 9	42° 0	41° 2	45° 1	294	265	99	99	ENE	2	ENE	3	10	10	10	10	060	Scotch ☐ <sup>0</sup> all day.
11	645	645	41° 8	38° 2	38° 0	44° 0	231	213	88	92	ENE	3	SW	2	10	10	10	10	330	Scotch ☐ <sup>0</sup> ga. and during day.
12	616	690	43° 0	43° 9	38° 1	48° 7	253	283	91	99	E	1	E	1	10	10	10	10	010	Scotch ☐ <sup>0</sup> p.
13	735	737	45° 2	44° 8	41° 9	54° 2	260	283	87	96	NNE	1	E	1	10	10	10	10	—	Scotch ☐ <sup>0</sup> a. and p.
14	696	739	43° 0	42° 2	40° 0	50° 7	259	265	94	98	E	1	ESE	2	10	10	10	10	080	Scotch ☐ <sup>0</sup> all day.
15	802	947	41° 3	45° 0	40° 3	49° 1	256	273	99	91	E	2	WNW	2	10	1	1	1	140	Scotch ☐ <sup>0</sup> a.
16	079	905	51° 8	47° 0	43° 0	57° 7	311	294	80	92	SW	2	W	2	8	5	020	—	—	☐ gp.
17	780	644	47° 0	47° 0	45° 8	55° 3	321	294	99	92	E	1	W	2	10	8	8	8	370	Scotch ☐ <sup>0</sup> a.
18	773	29° 794	47° 9	45° 3	44° 2	51° 1	280	272	85	90	W	4	WSW	3	10	10	10	10	270	☐ <sup>0</sup> a.
19	29° 745	30° 111	46° 2	43° 4	43° 0	50° 5	266	272	86	97	N	2	N	2	10	10	10	10	070	Scotch ☐ <sup>0</sup> during day.
20	30° 237	280	45° 0	42° 8	41° 2	45° 2	233	240	78	88	NNE	1	NNE	2	10	10	10	10	020	Scotch ☐ <sup>0</sup> a. and p.
21	382	416	44° 0	40° 0	39° 7	49° 1	225	213	77	86	NE	2	NE	2	10	10	10	10	—	
22	394	386	40° 5	39° 2	38° 2	45° 2	200	195	80	81	NE	2	NE	2	10	10	10	10	—	
23	320	332	43° 0	38° 4	35° 1	50° 1	197	204	71	88	NNE	1	NNE	1	10	0	—	—	—	☐ gp.
24	200	207	51° 7	48° 0	31° 9	56° 5	245	262	64	78	E	1	W	1	7	10	10	10	—	
25	220	30° 208	52° 2	44° 2	41° 2	55° 1	246	256	64	89	Calm	0	W	2	10	0	190	—	—	☐ <sup>0</sup> p. ☐ <sup>0</sup> gp.
26	30° 130	29° 087	53° 0	47° 0	34° 1	56° 3	241	258	60	80	W	1	W	2	4	10	10	10	010	
27	29° 688	300	48° 0	49° 8	44° 3	54° 0	288	324	87	91	SW	2	SSW	4	10	10	10	10	940	Scotch ☐ <sup>0</sup> a. and p.
28	28° 948	139	50° 2	45° 2	44° 2	53° 4	284	252	79	84	SW	4	W	6	10	8	500	—	—	☐ <sup>0</sup> 10.45a.
29	29° 326	372	46° 8	45° 6	41° 0	51° 8	240	258	76	85	WSW	5	WSW	5	8	5	040	—	—	☐ <sup>0</sup> n. and a. ☐ <sup>0</sup> during day.
30	455	603	46° 7	41° 2	41° 0	54° 3	278	231	88	90	WSW	3	Calm	0	9	6	020	—	—	
31	29° 622	29° 586	54° 9	51° 6	39° 7	61° 0	305	348	71	91	E	1	E	2	7	10	10	10	440	
Means	29° 890	29° 892	45° 4	42° 0	36° 8	51° 1	238	236	78° 1	86° 3	1° 5	1° 9	8° 6	7° 0	5° 540					

## WAKEFIELD.

Height above Mean Sea Level, 96 feet. Long. 1° 30' W. Lat. 53° 41' N.

MAY 1877.

1	30° 40.6	30° 42.3	41° 3	39° 9	35° 0	44° 9	191	196	74	80	N	1	Calm	0	5	7	—	0
2	30.2	182	42° 5	40° 5	36° 4	50° 7	201	232	75	93	NNE	1	Calm	0	8	9	—	—
3	220	30° 21.5	40° 9	38° 3	36° 5	46° 2	199	170	78	73	Calm	0	N	2	7	4	—	0
4	30° 14.5	29° 08.6	40° 4	42° 2	27° 8	48° 9	182	231	73	86	NNE	2	Calm	0	4	8	—	—
5	29° 02.8	912	39° 3	38° 1	31° 6	47° 9	178	172	75	74	N	1	Calm	0	5	0	—	—
6	8° 8	827	43° 2	43° 2	24° 8	54° 0	192	232	69	83	Calm	0	Calm	0	4	0	—	—
7	829	839	50° 2	45° 0	34° 2	53° 6	238	243	66	82	Calm	0	Calm	0	0	7	—	—
8	812	728	50° 0	45° 0	32° 6	59° 0	242	262	68	88	E	2	ENE	1	0	0	—	a.
9	570	574	51° 9	48° 2	40° 0	55° 0	315	295	82	89	ENE	2	NE	2	9	10	230	—
10	590	579	47° 2	46° 3	45° 5	55° 6	316	309	98	99	NE	2	ENE	1	10	10	140	—
11	604	612	45° 0	43° 2	43° 1	55° 8	275	253	92	90	NNE	1	NNE	1	10	10	010	—
12	606	666	46° 2	47° 1	41° 0	52° 1	275	302	89	93	E	1	NE	2	10	10	020	—
13	729	714	46° 8	49° 8	44° 3	58° 0	294	293	92	84	Calm	0	Calm	0	10	10	—	—
14	689	732	43° 4	46° 2	43° 1	53° 0	277	284	99	92	E	1	E	1	10	10	180	—
15	29° 804	949	45° 2	45° 3	43° 4	56° 2	295	276	98	92	ESE	1	Calm	0	10	0	110	—
16	30° 004	971	55° 6	52° 2	39° 0	61° 8	301	382	68	98	WSW	2	Calm	0	8	10	550	Bright and fair a., became dull and
17	29° 774	667	52° 7	50° 2	47° 5	54° 8	389	322	98	89	SSE	2	SW	2	10	7	440	cloudy during forenoon. K <sup>2</sup> 1.15p.
18	838	29° 822	52° 0	48° 8	47° 2	55° 2	309	304	80	88	WSW	3	W	2	8	2	120	4-5p.
19	29° 739	30° 076	48° 2	49° 2	47° 1	54° 6	312	309	93	89	SW	1	E	2	10	10	110	—
20	30° 180	249	47° 8	45° 5	44° 1	49° 9	307	284	93	94	N	2	N	2	10	10	—	—
21	309	350	46° 0	44° 2	43° 7	49° 9	277	263	90	91	NNE	3	W	2	10	10	—	—
22	336	343	44° 2	42° 2	41° 5	48° 9	237	223	82	84	N	2	NW	1	10	7	—	—
23	312	306	45° 0	42° 3	37° 9	51° 7	237	230	79	86	N	1	NNW	1	10	6	—	—
24	292	262	49° 2	51° 2	41° 6	58° 2	258	319	74	85	N	1	Calm	0	4	10	—	—
25	226	30° 194	52° 3	51° 2	45° 7	60° 8	306	351	78	93	Calm	0	Calm	0	10	8	—	—
26	30° 148	29° 984	55° 2	54° 2	46° 1	61° 8	254	382	58	91	W	2	W	1	3	0	—	—
27	29° 711	549	55° 0	58° 9	48° 3	62° 4	297	428	69	87	SW	3	SSW	4	8	10	100	—
28	28° 921	201	50° 2	50° 2	49° 1	62° 8	436	284	97	79	SSW	4	WSW	3	8	0	090	—
29	29° 417	412	52° 0	50° 4	43° 3	60° 0	246	279	64	78	SW	6	SW	1	5	2	010	—
30	494	604	54° 2	49° 8	46° 9	61° 0	246	322	58	90	WSW	4	Calm	0	3	10	060	—
31	29° 620	29° 571	57° 2	59° 2	37° 3	65° 6	322	401	68	80	ESE	1	Calm	0	7	10	300	—
Means	29° 88.5	29° 88.1	48° 3	47° 0	40° 9	54° 9	271	285	79° 9	87° 1	1° 7	1° 0	7° 3	6° 7	2° 470			

## KELSTERN.

Height above Mean Sea Level, 388 feet. Long. 0° 7' W. Lat. 53° 24' N.

MAY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.	
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.		
1	ins.	ins.	30° 41'8	37° 1	36° 8	33° 7	42° 9	215	196	97	90	NW 1	Calm 0	10	10	ins.	
2	30° 39'9	30° 41'8	37° 1	38° 0	34° 4	50° 1	222	208	85	91	W 1	Calm 0	9	0	—		
3	185	193	40° 5	32° 0	32° 0	45° 2	199	143	79	79	NE 1	NE 1	6	1	004		
4	30° 188	30° 014	39° 3	30° 2	28° 0	43° 7	205	152	86	90	N 1	NW 1	7	0	010	* before ga.	
5	29° 803	29° 925	37° 9	32° 6	30° 0	44° 9	214	172	94	93	NNE 1	NE 1	9	0	—		
6	898	854	43° 7	36° 4	28° 9	50° 0	225	209	78	97	ESE 1	ESE 2	8	2	—	Very fine day.	
7	845	840	45° 5	41° 0	32° 0	55° 0	255	250	75	98	W 1	ESE 1	1	3	—	Very fine day.	
8	818	727	50° 2	42° 9	35° 9	54° 0	256	276	71	100	E 1	E 1	1	9	—		
9	579	578	51° 2	45° 0	39° 9	52° 6	351	297	93	99	E 1	E 1	9	10	170	~ op.	
10	584	568	48° 0	43° 0	43° 0	50° 1	335	297	100	100	E 1	E 1	1	10	10	023	ga. and op. ~ during day.
11	565	593	44° 3	42° 7	42° 6	46° 8	284	265	98	96	NE 1	N 1	10	10	10	~ a.	
12	605	655	44° 9	43° 7	41° 8	47° 7	298	285	100	100	SE 1	E 1	1	10	10	046	~ p.
13	692	743	43° 0	43° 1	42° 7	47° 7	277	276	100	99	NE 1	Calm 0	10	10	10	~ ga. and during day.	
14	702	727	41° 5	41° 2	39° 2	45° 9	262	254	100	98	E 1	E 1	10	10	10	~ ga. and during day.	
15	29° 813	29° 970	44° 2	43° 8	40° 6	51° 7	288	284	99	100	ESE 1	W 1	10	2	125		
16	30° 036	30° 013	53° 3	50° 0	39° 2	61° 0	344	344	84	96	SSW 2	SSW 2	8	3	266	⊞ p.	
17	29° 837	29° 034	51° 9	48° 0	46° 0	52° 0	375	319	98	96	SSE 3	W 3	10	1	374	⊞ p.	
18	856	831	52° 1	46° 9	42° 1	57° 9	311	304	80	95	W 3	W 2	7	6	116	⊞ p.	
19	29° 758	29° 983	47° 6	45° 9	43° 8	50° 9	318	309	97	100	W 1	N. 2	10	10	249	~ op.	
20	30° 135	30° 196	45° 7	44° 1	42° 8	46° 9	295	287	96	99	NNE 2	NE 2	10	10	029	~ p.	
21	258	299	44° 9	43° 0	42° 1	47° 2	281	277	95	100	NNE 4	N 2	10	9	040	~ ga. and before.	
22	301	304	43° 0	39° 8	39° 8	46° 7	251	243	90	100	ENE 2	NE 1	10	10	9	—	
23	260	254	44° 6	41° 8	37° 2	49° 6	258	256	88	97	NE 1	NE 1	9	10	—		
24	268	276	45° 9	43° 0	41° 4	51° 3	286	277	93	100	NE 1	NE 1	9	5	008		
25	211	200	52° 0	48° 0	41° 1	63° 0	358	328	92	98	WSW 1	WSW 1	9	8	—		
26	30° 151	30° 017	58° 5	51° 7	41° 9	63° 0	373	344	77	89	WSW 1	Calm 0	5	10	—		
27	29° 762	29° 433	53° 0	52° 2	43° 9	62° 3	369	377	92	97	WSW 4	S 5	8	10	057	⊞ p.	
28	095	202	53° 9	47° 9	47° 8	60° 4	386	321	93	97	SW 5	SW 4	9	2	083	⊞ a.	
29	455	456	50° 1	46° 2	41° 5	59° 6	311	313	86	100	W 3	WSW 1	7	3	008		
30	523	619	54° 0	48° 8	39° 7	60° 9	366	345	87	100	SW 4	SW 2	7	9	087		
31	29° 630	29° 637	58° 8	55° 4	40° 9	63° 5	433	405	88	92	ESE 2	SE 2	6	10	130		
Means	29° 889	29° 882	47° 3	43° 4	39° 2	52° 4	297	277	90° 0	96° 3	1° 8	1° 4	8° 2	6° 5	1° 855		



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## HILLINGTON, NORFOLK.

Height above Mean Sea Level, 88 feet. Long. 0° 33' E. Lat. 52° 48' N.

MAY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.	
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.			9 a.m.
1	ins.	ins.	41°	39°	34°	47°	in.	in.	%	%	NE 3	NE 0.5	10	10	ins.	✱ Δ before ga. Δ ga.	
2	30°347	30°397	41°	39°	34°	47°	193	192	75	81	NW 1	SW 0.5	10	10	—		
3	316	197	45°	40°	36°	51°	214	203	71	82	NW 1	NE 1	8	1	—	Fine and sunny. Δ 5.45p.	
4	175	179	44°	32°	28°	50°	199	140	67	77	E. 1	NE 1	10	1	—	Δ 8a. ✱ 0 ga. Fine & sunny. —p.	
5	30°136	30°039	38°	30°	27°	50°	188	162	81	97	NE 2	NE 1	10	1	—	Δ 1.30p.	
6	29°995	29°917	43°	33°	25°	51°	202	164	70	87	SW 1	NE 0.5	5	1	—	Very fine and sunny. Cold wind.	
7	894	856	46°	37°	24°	55°	204	176	65	80	SE 2	SE 2	4	1	—		
8	842	835	50°	39°	32°	60°	251	218	55	91	E 0.5	NE 2	2	1	—		
9	792	715	54°	39°	33°	62°	239	239	56	98	ENE 4	NE 2	2	1	—		
10	601	573	54°	45°	39°	58°	237	290	77	97	SE 2	E 1	10	1	0.30		
11	591	552	56°	48°	42°	61°	373	330	83	99	SE 0.5	ESE 1	5	10	0.227	Fine and sunny, a. Much T. 0.26p. K	
12	552	603	48°	44°	43°	52°	313	288	93	97	NNE 1	Calm	10	10	—	(very near), 0.55p. Δ 2.30p. 2 1/2 mile	
13	612	553	52°	47°	41°	57°	330	318	85	99	SE 1	SE 3	9	10	0.60	[N. of here, 0.35 in. in 12 minutes.	
14	674	744	46°	44°	43°	47°	304	280	97	97	NE 2	NE 0.5	10	10	—		
15	714	744	45°	44°	44°	58°	298	284	96	98	NE 0.5	NE 2	10	10	0.60		
16	29°824	29°986	46°	42°	42°	53°	305	262	98	97	SE 1	SW 0.5	10	5	0.68		
17	30°073	30°054	54°	49°	36°	64°	334	342	79	95	SW 3	SW 1	5	2	0.56	Fine and sunny.	
18	29°912	29°683	53°	52°	42°	55°	391	399	96	93	SW 1	SW 3	10	10	0.270		
19	902	883	56°	48°	43°	60°	422	320	93	95	W 5	SW 1	5	10	0.120	Fine and sunny, a. K 4.30p.—5.30p.	
20	803	29°944	50°	47°	43°	60°	353	313	95	97	SW 2	N 1	10	10	0.307		
21	29°893	30°176	47°	46°	43°	49°	293	305	91	97	N 5	NNE 3	10	10	0.005		
22	30°215	246	49°	45°	44°	49°	312	295	90	98	NNE 5	NNE 4	10	10	0.027		
23	266	266	49°	43°	43°	49°	259	219	84	76	NE 5	NE 3	10	10	—		
24	245	226	47°	44°	39°	54°	226	225	69	77	NE 3	N 2	9	10	—		
25	226	247	46°	39°	39°	54°	283	228	91	93	NE 4	Calm	10	0	—		
26	235	216	47°	46°	34°	60°	289	279	88	90	W 1	NNW 0.5	10	10	0.020		
27	30°184	30°065	50°	46°	39°	64°	290	287	64	91	WNW 1	NNW 0.5	4	10	—		
28	29°852	29°551	54°	53°	42°	67°	280	290	66	70	SW 6	SW 5	10	10	0.040	at night.	
29	210	281	57°	51°	51°	62°	298	321	63	83	SW 8	SW 5	4	9	0.040	Sharp squall. Magnificent perfect	
30	521	512	54°	49°	44°	62°	257	277	59	79	WSW 6	SW 4	4	3	—	[double the most beautiful I	
31	571	652	55°	50°	41°	62°	275	298	63	83	WSW 6	SSW 1	7	3	0.043	ever saw.	
31	29°640	29°702	62°	55°	40°	69°	355	396	63	90	S 4	S 2	7	6	0.020		
Means	29°897	29°890	50°	44°	39°	56°	286	268	78°	89°	2°	1°	7°	6°	1°	393	

## UPPINGHAM.

Height above Mean Sea Level, 484 feet. Long. 0° 44' W. Lat. 52° 35' N.

MAY 1877.

1	30°392	30°417	40°	37°8	33°4	45°0	'172	69	81	NNE 3	NNE 2	10	10	'006		
2	'310	'184	42°6	40°3	34°0	50°6	'171	191	63	77	NW 2	Calm	0	3	—	
3	'160	'171	41°7	32°2	31°8	45°2	'188	'139	72	76	NNE 2	Calm	0	0	—	
4	30°114	30°006	42°4	33°6	27°0	47°9	'185	146	68	76	EbyN 1	Calm	0	8	—	on horizon gp.
5	29°892	29°906	44°1	33°0	29°2	49°0	'158	'165	55	88	NbyE 3	NE 1	6	0	—	
6	'877	'830	46°2	38°9	29°1	50°8	'210	'155	68	66	SE 2	SE 2	6	0	—	
7	'824	'811	50°1	44°2	30°9	64°0	'233	'205	64	71	EbyN 1	E by S 1	4	2	—	
8	'770	'656	55°1	43°4	35°0	63°9	'227	'258	53	91	EbyS 2	ENE 1	8	1	'108	7a. on horizon, gp.
9	'540	'510	45°4	46°1	39°9	57°6	'296	'307	98	98	EbyN 1	NE 1	10	5	'590	6a. T 1.40p. K 2p.—2.40p. Δ p.
10	'555	'523	50°3	47°3	43°3	61°0	'311	'320	85	98	E 1	EbyN 1	10	10	'015	6a. T 5.20p.
11	'534	'575	46°0	44°2	42°9	51°1	'289	'277	94	96	ENE 1	NNE 1	10	10	'020	ga. and before.
12	'574	'694	46°3	46°2	42°3	57°9	'309	'313	98	100	Calm	Calm	0	10	'199	6a. and before.
13	'675	'721	48°1	45°2	42°4	58°0	'306	'301	92	100	N 1	Calm	0	10	'4	6a. T 1.40p. in S. gp.
14	'628	'692	43°9	43°9	39°8	53°0	'282	'287	98	100	NE 2	NE 1	10	10	'187	6a., ga., and gp. [noon.
15	29°787	29°968	45°7	47°7	42°2	58°9	'302	'276	99	84	SEbyE 1	W 1	10	4	'023	6a.—11a. Wind backed to NW at
16	30°049	30°013	53°2	51°4	40°5	59°7	'318	'353	78	93	WSW 3	SSW 2	10	9	'105	Wind SW force 5 at Noon.
17	29°825	29°692	50°5	48°7	48°7	53°2	'350	'291	95	86	SbyW 5	WNW 4	10	0	'193	
18	'898	'872	52°5	47°2	42°8	56°0	'284	'271	72	84	WbyS 4	WbyS 3	9	9	'166	
19	29°779	29°952	46°4	46°3	43°0	53°3	'282	'300	90	96	WbyN 2	NNE 3	10	9	'137	
20	30°122	30°183	46°2	43°0	42°5	47°5	'267	'275	86	99	NNE 6	NNE 2	10	10	'080	
21	'224	'281	46°5	43°0	42°1	50°9	'279	'257	88	93	NNE 4	NNE 3	10	10	'011	
22	'283	'282	43°5	41°2	40°8	47°3	'242	'201	85	78	NNE 4	NbyN 2	10	10	—	
23	'257	'250	43°1	41°0	37°0	50°8	'220	'215	79	84	NbyN 3	NE 2	10	7	—	
24	'233	'257	47°8	41°8	39°4	56°3	'252	'249	76	93	NE 4	NE 1	9	1	—	gp. Moon shining through.
25	'228	'206	48°3	50°3	38°8	60°8	'282	'275	84	75	WSW 1	Calm	0	10	10	0° ga. gp.
26	30°164	30°041	56°0	51°7	43°9	61°5	'285	'287	63	75	WbyN 1	WbyS 1	9	10	—	
27	29°810	29°462	52°1	52°0	34°8	61°4	'254	'294	73	76	SW 7	swbyS 8	7	10	'072	
28	'147	'254	53°9	49°1	48°5	60°0	'291	'290	70	83	SW 9	WSW 3	10	10	'039	
29	'478	'467	53°7	46°7	41°3	59°1	'270	'255	65	81	swbyW 5	swbyW 2	8	1	—	
30	'555	'616	54°8	50°1	40°0	60°8	'282	'294	66	83	WSW 5	WSW 1	5	7	—	
31	29°593	29°620	58°5	54°5	41°4	68°2	'354	'337	72	79	SEbyE 4	S by W 1	9	10	'278	during night.
Means	29°880	29°872	48°2	44°6	39°0	55°7	'264	'257	78°0	85°8	2°9	1°6	9°0	6°2	2°240	

## OSCOTT.

Height above Mean Sea Level, 460 feet. Long. 1° 51' W. Lat. 52° 33' N.

MAY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.		
1	ins.	ins.	39°	38°	29°	45°	177	189	73	81	NNE 2	ESE 0-1	10	1	ins.	∞ in morning.
2	30°405	30°412	39°	38°	29°	45°	177	189	73	81	SSW 2	NW 1	9	0	—	
3	303	303	44°	38°	34°	52°	192	187	66	81	ENE 3	ENE 2	10	10	—	
4	30°168	30°168	40°	37°	33°	47°	165	166	66	79	NE 3	ENE 1	8	0	—	○ 0.45p. ○ 0.45p., small, coloured, and at 8° 0.45p. [11a. with large intersecting white ring.
5	30°118	30°003	40°	36°	27°	46°	165	171	66	79	NNE 3	ENE 2-3	1	0	—	
6	29°899	29°891	41°	37°	31°	49°	181	165	70	75	SE 3	ESE 0-1	1	0	—	
7	866	802	42°	45°	28°	55°	168	196	64	65	E 1	N 2	8	7	—	○ 0.45p. ○ 0.45p., small, coloured, and at 8° 0.45p. [11a. with large intersecting white ring.
8	826	802	46°	45°	33°	60°	209	225	68	76	ENE 3	ENE 3	8	9	0.30	
9	758	624	51°	48°	35°	60°	200	247	54	72	ENE 3	ENE 1	9	10	0.040	
10	512	493	47°	48°	39°	61°	203	313	92	93	SE 0-1	NE 0-1	9	10	0.030	T 3.45p.
11	546	515	50°	46°	46°	60°	203	291	82	92	NE 3	NNE 3	10	10	0.070	
12	549	579	45°	43°	43°	50°	281	271	93	95	ENE 1	NNE 1	10	10	0.150	
13	572	604	45°	47°	42°	57°	295	306	98	95	NNE 1-2	ENE 1	10	9	—	T 3.45p.
14	700	697	45°	48°	44°	55°	299	301	100	99	E 3	ENE 2	10	10	490	
15	624	671	50°	47°	42°	54°	305	309	83	95	W 3	WSW 2	10	0	030	
16	29°786	29°80	48°	48°	44°	58°	313	265	93	80	S 3	S 2	9	8	310	T 3.45p.
17	30°016	29°84	54°	50°	41°	62°	316	338	76	91	SE 3	W 3	10	1	190	
18	29°749	29°720	49°	50°	48°	55°	330	293	95	82	WSW 6	SW 3	8	9	150	
19	891	864	53°	47°	44°	56°	279	298	70	93	WSW 3	NNE-N 2	10	10	240	T 3.45p.
20	29°776	29°997	48°	46°	45°	51°	293	306	88	99	NNE 3	NNE 2	10	10	030	
21	30°155	30°212	46°	44°	43°	49°	266	257	86	88	NNE 3	NNE 3	10	10	—	
22	253	308	49°	44°	43°	50°	278	249	79	85	NNE 4	NNE 2	10	10	—	8° 0 p.
23	310	298	42°	43°	41°	47°	233	238	85	82	NNE 3	NNE 1-2	10	1	—	
24	284	257	42°	42°	38°	49°	210	209	79	75	NNE 3	NE 0-1	9	0	—	
25	257	255	46°	46°	39°	56°	230	241	73	77	W 1	N 0-1	10	10	—	8° 0 p.
26	238	208	49°	50°	44°	60°	281	261	80	70	NW 2	SW 1	8	9	—	
27	30°160	30°021	55°	52°	49°	69°	262	288	61	74	SSW 6	S 6-7	9	10	250	
28	29°782	29°406	52°	52°	43°	61°	285	306	74	78	SSW 6-7	SW 5	9	3	060	all day.
29	890	772	53°	48°	48°	64°	302	278	74	80	SSW 5	SW 2	6	0	010	
30	472	463	51°	46°	41°	59°	278	261	74	84	WSW 4	S 1-2	9	3	090	
31	550	606	52°	49°	43°	59°	257	284	66	81	ENE 3	SSE 2	9	10	300	
Means	29°877	29°867	47°	45°	40°	55°	258	260	78°	83°	3°	2°	8°	6°	2°460	



## HEREFORD.

Height above Mean Sea Level, 274 feet. Long. 2° 45' W. Lat. 52° 5' N.

MAY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.	
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.			
1	ins.	ins.	44°	38°	37°	47°	in.	in.	%	%	NE	1	Calm	0	3	8	ins.
2	30°402	30°399	44°	38°	37°	47°	158	171	55	74	NE	1	Calm	0	3	8	—
3	296	184	48°	42°	35°	51°	200	178	59	65	Calm	0	NE	1	6	1	—
4	159	30°124	39°	40°	31°	47°	197	182	82	72	ENE	1	E	2	10	10	—
5	30°097	29°991	39°	36°	27°	46°	164	162	66	75	ENE	2	Calm	0	6	0	—
6	29°891	866	47°	39°	26°	52°	166	168	51	69	NE	2	NE	1	1	0	—
7	856	790	43°	43°	31°	56°	188	201	65	72	ESE	1	Calm	0	2	0	—
8	821	796	49°	45°	33°	60°	199	209	56	69	Calm	0	NE	1	8	0	—
9	734	564	52°	51°	33°	60°	229	268	59	71	Calm	0	ESE	1	8	4	—
10	487	460	48°	48°	46°	61°	285	293	85	86	E	1	SE	1	10	10	001
11	524	495	51°	48°	43°	58°	302	295	79	89	SSE	1	Calm	0	10	10	100
12	537	568	49°	46°	44°	54°	288	283	83	91	ESE	1	E	1	10	10	450
13	544	600	50°	46°	44°	56°	307	299	85	96	ESE	1	Calm	0	9	10	260
14	711	675	47°	47°	44°	56°	306	294	93	90	Calm	0	Calm	0	10	5	028
15	583	655	51°	50°	43°	54°	325	351	85	97	SE	2	Calm	0	10	10	160
16	29°821	996	53°	46°	46°	59°	267	274	66	86	W	3	Calm	0	4	0	044
17	30°021	983	53°	52°	42°	59°	333	356	80	90	SW	2	S	1	10	10	312
18	29°674	782	49°	49°	43°	58°	323	293	92	84	SSE	2	W	2	10	0	040
19	945	29°924	53°	47°	43°	58°	268	285	65	86	W	3	WNW	3	7	2	150
20	29°807	30°016	49°	49°	46°	54°	297	284	83	80	WNW	3	NNE	2	9	8	020
21	30°173	217	47°	46°	46°	53°	263	245	80	79	NNE	2	NNE	3	10	10	—
22	265	304	50°	46°	43°	55°	274	241	76	76	NE	2	NNE	2	9	10	—
23	308	284	46°	45°	43°	48°	241	225	76	75	NE	2	ENE	1	9	10	—
24	279	255	43°	46°	40°	50°	186	206	65	66	NE	2	NE	1	10	10	—
25	255	257	48°	48°	35°	55°	241	278	72	82	NE	1	Calm	0	9	0	—
26	243	208	53°	48°	37°	60°	277	285	68	75	Calm	0	Calm	0	10	7	—
27	30°170	30°043	58°	46°	39°	62°	264	258	53	82	Calm	0	Calm	0	2	1	—
28	29°779	29°391	52°	50°	43°	58°	268	343	68	95	SW	3	SSW	3	10	10	360
29	113	340	53°	49°	49°	60°	292	259	71	73	SW	2	W	3	9	2	070
30	500	484	53°	45°	42°	59°	238	262	58	87	WSW	2	Calm	0	3	3	—
31	570	612	53°	50°	42°	61°	243	316	59	87	WSW	2	Calm	0	7	8	—
31	29°532	29°533	54°	53°	41°	63°	307	396	73	96	Calm	0	SSE	1	9	10	400
Means	29°874	29°864	49°	46°	40°	56°	255	262	71°	81°	1°	1°	7°	5°	2°	395	—

## AUDLEY END, ESSEX.

Height above Mean Sea Level, 154 feet. Long. 0° 13' E. Lat. 52° 1' N.

MAY 1877.

1	30°372	30°404	40°	40°	35°	45°	*189	*186	75	73	N	2	N	2	10	10	—	△ 0 p.
2	*328	*201	45°	33°	33°	50°	*171	*156	56	84	SW	1	NW	1	6	0	—	
3	*142	*154	40°	30°	28°	44°	*208	*140	82	83	NE	2	NE	1	10	0	—	
4	30°078	30°010	42°	34°	25°	48°	*166	*156	60	79	NE	2	NE	1	4	0	—	
5	29°913	29°906	40°	35°	22°	48°	*187	*169	75	82	NE	1	NE	1	4	0	—	
6	*886	*842	47°	37°	27°	54°	*298	*177	93	78	E	2	Calm	0	7	0	—	
7	*818	*828	53°	42°	29°	63°	*207	*225	51	82	NE	2	NE	1	0	0	—	Very clear and dry throughout.
8	*777	*654	55°	45°	29°	66°	*158	*244	36	80	NE	1	E	1	0	0	—	Very dry air.
9	*577	*537	52°	50°	45°	63°	*350	*288	88	81	SE	1	SE	1	10	5	—	
10	*592	*559	54°	47°	45°	59°	*303	*264	71	83	SW	1	Calm	0	7	10	—	△ 0 p.
11	*546	*588	49°	49°	42°	59°	*329	*309	93	89	NW	1	SW	1	10	10	—	
12	*590	*603	50°	49°	44°	54°	*316	*344	86	97	SE	1	SE	1	10	10	—	⊞ a. ⊞ 2 ⊞ 2 p. ● 2
13	*684	*737	48°	44°	45°	51°	*317	*284	95	95	NE	1	Calm	0	10	3	—	
14	*685	29°700	52°	49°	40°	57°	*325	*321	81	92	SE	1	Calm	0	7	10	—	
15	29°821	30°044	49°	48°	46°	60°	*335	*309	97	93	SE	1	SW	1	10	0	—	
16	30°090	30°078	51°	51°	42°	59°	*324	*351	99	94	SW	2	SW	1	4	0	—	⊞ in afternoon.
17	29°912	29°727	52°	53°	50°	54°	*304	*323	94	80	SE	1	NW	2	10	3	—	
18	*951	*914	56°	49°	46°	60°	*294	*305	66	87	NW	3	W	2	7	10	—	⊞ in afternoon.
19	29°825	29°939	50°	48°	45°	53°	*327	*312	88	94	SW	2	N	2	10	10	—	
20	30°088	30°159	47°	46°	45°	51°	*275	*305	86	97	NE	3	NW	2	10	10	—	
21	*177	*228	49°	45°	44°	52°	*307	*277	88	92	NW	2	NW	2	10	10	—	
22	*229	*234	49°	44°	43°	49°	*271	*243	78	83	NW	3	NW	3	10	10	—	
23	*232	*222	45°	43°	40°	51°	*229	*226	76	81	NW	2	N	2	10	10	—	
24	*206	*237	45°	43°	41°	52°	*271	*254	90	91	N	2	Calm	0	10	0	—	
25	*234	*212	49°	51°	35°	60°	*290	*325	84	87	N	1	NW	1	10	10	—	
26	30°179	30°030	52°	50°	47°	64°	*335	*318	86	87	NW	2	SW	1	5	0	—	∞
27	29°885	29°543	55°	54°	41°	64°	*305	*309	70	73	SW	2	SW	3	7	10	—	∞
28	*222	*359	60°	52°	51°	61°	*323	*290	62	75	SW	4	SW	2	5	2	—	∞ 2 with passing showers.
29	*559	*522	56°	48°	44°	62°	*284	*306	62	91	SW	2	SW	1	5	4	—	
30	*619	*662	56°	48°	40°	61°	*294	*285	66	84	W	2	W	1	7	0	—	
31	29°606	29°078	56°	55°	40°	67°	*381	*366	85	83	SE	2	Calm	0	9	7	—	Very squally.
Means	29°898	29°887	50°	45°	39°	56°	*282	*270	77°	85°	1°	1°	7°	5°	1°	860		

## CARMARTHEN.

Height above Mean Sea Level, 188 feet. Long. 4° 18' W. Lat. 51° 52' N.

MAY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.		
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.			
	ins.	ins.	°	°	°	°	in.	in.	°/°	°/°	E	1	NW	1	7	8	ins.	
1	30°389	30°374	47°6	41°5	39°9	53°6	·228	·224	69	87	E	1	NW	1	7	8	—	
2	·294	·202	47°0	39°9	34°8	52°7	·235	·207	74	84	SW	1	Calm	0	7	0	—	
3	·126	30°080	51°2	41°1	32°1	54°7	·253	·217	67	84	N	1	E	1	3	0	—	
4	30°066	29°975	43°9	36°7	34°7	51°0	·196	·172	68	79	E	1	E	1	1	0	—	
5	29°879	·838	51°8	40°5	29°5	57°1	·237	·201	62	80	E	1	E	1	1	0	—	
6	·816	·788	49°2	43°1	32°9	55°5	·231	·235	66	84	SE	1	N	1	1	0	—	
7	·816	·798	52°6	44°6	36°0	61°4	·263	·245	67	83	S	1	Calm	0	4	0	—	∞ a. Fine and warm all day.
8	·683	·510	55°3	49°0	37°6	62°4	·288	·262	66	75	Calm	0	SE	1	6	2	·020	Fine and warm.
9	·415	·409	55°7	46°2	46°0	62°8	·336	·294	76	95	SE	3	E	1	6	3	·180	
10	·487	·491	50°8	47°5	45°8	56°3	·322	·285	86	88	S	1	E	1	9	10	·150	
11	·525	·522	47°8	47°0	44°4	54°0	·298	·309	90	97	E	1	E	1	10	10	·170	
12	·529	·608	54°7	46°6	43°9	60°6	·335	·289	79	92	E	1	N	1	5	10	·140	☞ 1p.
13	·689	·598	56°9	48°5	42°8	58°7	·327	·289	71	86	N	1	Calm	0	9	10	·010	
14	·528	·624	50°8	50°8	48°1	53°4	·334	·364	89	98	SE	2	S	1	10	10	·090	
15	·854	·999	55°2	49°9	45°1	58°4	·329	·343	76	96	W	2	Calm	0	4	10	·100	
16	·985	·924	52°6	51°4	48°9	59°0	·361	·371	91	98	S	1	S	1	10	10	·780	
17	·558	·809	49°5	48°6	48°6	58°6	·349	·288	98	85	SE	1	W	1	10	0	·180	
18	·981	29°984	54°7	50°4	44°9	58°1	·343	·307	81	85	W	4	NW	3	9	9	·060	
19	29°888	30°068	51°3	48°8	48°2	55°1	·327	·296	86	86	W	4	NE	1	9	0	·020	
20	30°170	·231	55°0	46°4	40°1	61°4	·316	·264	73	84	NE	2	Calm	0	4	1	—	
21	·273	·281	52°8	49°8	43°7	58°8	·308	·290	77	82	NE	2	E	1	8	10	—	
22	·301	·277	47°8	46°9	44°3	55°8	·279	·263	84	83	E	1	NE	1	10	8	—	
23	·280	·263	48°1	47°6	41°0	54°2	·237	·235	70	71	NE	1	NE	1	7	10	—	
24	·270	·259	54°9	48°2	38°3	59°5	·287	·293	67	88	NE	1	Calm	0	5	4	—	
25	·238	·232	58°7	47°8	40°3	64°2	·346	·284	71	86	SW	1	Calm	0	0	0	—	
26	30°170	30°025	59°3	49°6	41°5	63°9	·374	·327	74	93	SW	1	SW	1	3	8	—	Fine and warm.
27	29°729	29°264	52°8	51°8	48°8	54°7	·333	·279	83	98	S	4	S	4	10	10	1770	● <sup>2</sup> after 0.30p.
28	·091	·417	52°8	46°6	46°6	58°7	·358	·373	89	87	SW	6	W	1	9	0	·010	Squally ga.
29	·488	·495	53°1	46°2	42°4	57°5	·312	·296	77	96	W	3	SW	1	5	1	·060	
30	·501	·592	53°8	48°6	44°4	59°2	·329	·315	79	93	SW	2	W	1	9	5	—	
31	29°570	29°422	56°0	54°2	41°7	52°6	·355	·394	79	94	E	1	S	1	9	10	·690	
Means	29°858	29°852	52°4	47°0	42°0	57°5	·304	·284	76°9	87°6	1°7		0°9	6°5	5°1	4°430		



## STRATHFIELD TURGISS.

Height above Mean Sea Level, 195 feet. Long. 1° 0' W. Lat. 51° 20' N.

MAY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	43°	40°	33°	47°	ins.	ins.	62	81	NE 2	NE 1	10	10	—	
2	30°374	30°415	43°	42°	36°	52°	178	202	62	81	NE 1	N 1	10	0	—	
3	30°349	30°415	43°	42°	36°	52°	178	202	62	81	NE 1	N 1	10	0	—	
4	30°131	30°124	47°	38°	32°	52°	218	179	68	77	NW 1	N 1	3	3	—	a. and p.
5	30°075	29°083	44°	36°	27°	50°	216	171	56	80	NE 2	E 1	2	7	—	a. cold and rough, a. Brilliant, but cold.
6	29°894	858	46°	40°	26°	53°	180	182	58	72	E 1	E 1	0	7	—	a.
7	867	805	45°	37°	29°	55°	181	164	59	73	E 2	E 1	6	0	—	a.
8	791	794	54°	44°	28°	63°	246	214	58	73	E 1	Calm	1	0	—	a.
9	749	614	57°	50°	30°	64°	219	237	47	65	NE 1	NE 1	0	3	—	a.
10	520	505	56°	48°	42°	62°	286	283	62	84	SE 1	SE 1	7	4	—	
11	567	519	56°	49°	41°	62°	285	287	62	82	S 1	Calm	7	10	—	
12	530	563	50°	48°	45°	58°	313	307	86	89	S 1	SE 1	10	8	—	
13	573	587	50°	49°	40°	60°	309	312	86	88	SW 1	SW 1	10	10	—	
14	686	730	50°	49°	44°	60°	324	325	89	93	SW 1	Calm	10	10	—	
15	639	29°678	54°	51°	43°	58°	312	327	74	86	S 1	S 1	10	10	—	
16	29°846	30°034	53°	49°	48°	61°	273	250	67	71	NW 2	W 1	7	0	—	
17	30°105	30°085	54°	52°	39°	61°	336	318	80	82	SW 2	SW 1	10	10	—	
18	29°851	29°795	50°	51°	49°	57°	331	329	92	88	S 2	W 1	10	0	—	
19	999	996	55°	51°	44°	61°	274	272	63	72	NW 2	W 2	8	10	—	
20	29°868	29°907	51°	48°	45°	56°	303	303	81	91	W 2	W 2	10	10	—	
21	30°093	30°188	46°	45°	44°	56°	272	288	86	94	N 2	Calm	0	10	—	
22	219	248	50°	46°	44°	55°	285	254	78	80	N 2	N 2	10	10	—	
23	249	254	47°	44°	43°	50°	275	228	86	78	NE 2	NE 2	10	10	—	
24	240	237	45°	42°	39°	51°	220	209	74	79	NE 2	NE 1	10	3	—	
25	225	215	46°	42°	40°	52°	264	193	86	72	NE 1	NE 1	10	0	—	
26	249	229	54°	51°	33°	64°	287	315	68	84	NE 1	Calm	3	10	—	
27	30°200	30°090	54°	50°	47°	65°	324	299	77	82	Calm	0	10	0	—	
28	29°095	29°557	58°	53°	40°	62°	301	315	62	77	W 3	SW 2	6	10	—	
29	266	400	55°	50°	50°	59°	316	299	71	82	SW 2	W 2	8	3	—	
30	575	546	56°	47°	43°	60°	267	284	59	86	W 2	NW 1	4	3	—	
31	635	674	55°	48°	40°	61°	288	278	66	82	W 2	SW 1	6	0	—	
Means	29°898	29°887	51°	47°	39°	58°	270	264	71°	80°	1°	1°	7°	5°	2°	128

## RAMSGATE.

Height above Mean Sea Level, 105 feet. Long. 1° 25' E. Lat. 51° 20' N.

MAY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	30°204	30°376	43°	41°	39°	48°	191	195	67	75	NW 5	NE 4	9	10	—	
2	290	192	43°	39°	35°	51°	166	176	57	73	NW 3	Calm	0	10	—	
3	003	30°073	48°	40°	33°	51°	236	176	69	70	NW 3	NE 4	3	5	—	
4	30°025	29°036	41°	40°	33°	47°	182	162	71	65	NE 5	NE 4	9	3	—	
5	29°839	830	46°	41°	37°	49°	170	193	54	75	NE 4	NE 5	5	5	—	
6	852	758	46°	45°	40°	48°	183	228	57	76	NE 4	NE 5	5	1	—	
7	760	772	51°	46°	44°	56°	245	259	66	84	NE 5	NE 5	4	2	—	
8	720	601	53°	49°	43°	60°	295	292	72	82	N 4	N 3	4	9	—	
9	543	507	53°	50°	48°	59°	325	325	80	88	SE 3	SW 2	7	6	—	
10	584	510	53°	48°	47°	57°	313	278	77	82	SW 3	NE 3	10	6	—	
11	486	569	51°	47°	47°	57°	312	294	83	88	NE 2	SE 1	10	6	—	
12	568	578	52°	49°	46°	57°	351	330	87	94	SE 1	SE 1	6	10	—	
13	625	725	50°	49°	48°	58°	328	313	90	90	NW 3	NW 1	10	8	—	
14	635	29°673	50°	49°	44°	55°	315	317	86	92	E 2	NE 3	10	10	—	
15	29°792	30°000	50°	51°	48°	59°	356	338	97	89	NE 3	SW 4	10	10	—	
16	30°109	30°088	56°	50°	43°	58°	335	330	75	91	SW 5	SW 4	6	5	—	
17	29°936	29°710	51°	52°	50°	53°	356	367	94	94	SE 4	SW 4	10	8	—	
18	960	919	57°	50°	46°	61°	321	313	69	86	SW 5	SW 5	7	7	—	
19	833	29°791	55°	48°	46°	55°	304	307	71	92	SW 4	NE 3	9	8	—	
20	29°979	30°076	50°	47°	47°	52°	319	277	88	87	N 5	NE 5	10	8	—	
21	30°092	135	53°	47°	46°	56°	311	269	76	82	NW 6	NW 6	6	10	—	
22	120	171	47°	45°	45°	50°	294	248	88	81	NE 5	NE 6	10	10	—	
23	154	170	47°	45°	44°	52°	225	215	68	71	N 6	NE 5	8	10	—	
24	148	188	47°	46°	43°	55°	223	281	69	89	N 4	NE 2	10	4	—	
25	205	30°194	51°	50°	45°	59°	304	296	80	82	N 2	SW 2	7	9	—	
26	30°152	29°982	55°	48°	48°	59°	321	307	72	90	W 3	SW 3	10	6	—	
27	29°888	597	56°	51°	44°	62°	316	335	70	88	SW 5	SW 5	4	7	—	
28	283	480	55°	51°	51°	59°	353	331	80	88	SW 7	SW 6	5	3	—	
29	550	525	55°	50°	46°	58°	295	322	67	88	SW 7	SW 6	5	8	—	
30	637	604	57°	50°	45°	59°	281	322	59	88	SW 4	SW 4	5	1	—	
31	29°567	29°693	55°	53°	48°	62°	360	371	83	92	SE 2	SW 4	10	7	—	
Means	29°862	29°853	51°	47°	44°	56°	287	283	74°	84°	4°	3°	7°	5°	2°	413

## HASTINGS.

Height above Mean Sea Level, 172 feet. Long. 0° 38' E. Lat. 50° 52' N.

MAY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	44°	40°	37°	47°	ins.	ins.	%	%	NE 3	ENE-NE 1	9	10	ins.	Fine, but cold.
2	30°335	30°406	44°	40°	37°	47°	189	188	74	71	NE 2	NE 0-1	10	0	—	
3	336	221	44°	37°	37°	49°	170	163	58	70	Calm	NE 5	0	1	—	Bright glow in NW-N <i>gp.</i> Fine, but cold.
4	130	30°088	48°	39°	35°	51°	197	165	58	70	E 4	NE 5	8	0	—	
5	30°042	29°957	40°	36°	32°	45°	186	166	73	78	NE 5	NE 4-5	1	0	—	Bright glow in NW-N <i>gp.</i>
6	29°867	847	43°	37°	31°	48°	170	173	61	77	ENE 6	NE-NE 4-5	2	0	—	
7	843	787	45°	39°	34°	49°	197	200	66	83	ENE 6	NE-NE 4-5	2	0	—	Bright glow in NW-N <i>gp.</i>
8	756	786	52°	44°	38°	58°	244	198	63	66	NE 5	NE 2	0	0	—	
9	719	632	54°	51°	40°	61°	251	271	60	72	NE 6	ENE 5	0	1	0.39	Faint ○ <i>3p.</i>
10	581	535	52°	50°	47°	58°	340	295	87	82	SSW 1	SE 0-1	5	8	0.20	
11	529	594	51°	49°	45°	57°	322	319	84	92	SW 1	S 0-1	9	4	0.10	Prismatic colours right and left of sun. [6.30p.
12	581	596	52°	48°	47°	56°	343	327	88	97	SSW 1	Calm	9	5	—	
13	665	761	53°	47°	45°	56°	307	292	75	91	W 2	WSW 1	5	1	0.30	Heavy shower <i>4p.</i>
14	662	29°686	52°	50°	43°	58°	335	331	86	92	SW 1	Calm	10	10	0.110	
15	29°833	30°035	53°	49°	46°	57°	342	338	84	95	W-WSW 4	W 5	10	9	0.010	Prismatic colours right and left of sun. [6.30p.
16	30°149	30°127	53°	50°	43°	56°	340	344	84	93	SSW 2	SSW 1	6	9	0.050	
17	29°954	29°783	51°	51°	50°	57°	335	324	74	90	SSW 3	W 4-5	10	0	0.500	Heavy shower <i>4p.</i>
18	30°010	30°005	56°	52°	44°	53°	342	345	74	90	W 5	WSW 6	7	5	0.010	
19	29°897	29°836	52°	48°	47°	53°	292	309	73	93	WSW 5-6	N 4	10	10	0.200	Heavy shower <i>4p.</i>
20	30°006	30°105	49°	48°	45°	53°	286	317	80	84	N-NE 5	N 5-6	10	10	—	
21	128	172	51°	45°	43°	58°	292	276	76	92	NNE 6	NNE 5-6	10	10	0.370	Heavy shower <i>4p.</i>
22	156	198	46°	44°	44°	49°	301	254	95	86	NNE 4	NNE 5	10	10	0.120	
23	183	203	45°	44°	41°	50°	238	240	79	82	NE 4	NNE 1	10	10	—	Heavy shower <i>4p.</i>
24	188	215	46°	43°	41°	53°	244	223	79	78	NNW 2	NNE 1	10	0	—	
25	241	228	50°	49°	40°	57°	292	315	79	89	NE 1	Calm	10	10	—	Heavy shower <i>4p.</i>
26	30°198	30°115	54°	49°	45°	56°	331	334	78	94	SW 2	SW 1	5	1	—	
27	29°951	29°647	55°	51°	43°	57°	344	339	79	90	SW 2	S-SSW 3	2	9	2.45	● 2 at night. during day.
28	339	429	54°	52°	50°	57°	361	342	84	87	SW 6-7	WSW 7-8	2	10	—	
29	639	594	54°	50°	48°	56°	327	303	75	82	SW-WSW 5	WSW 4	6	7	—	Heavy shower <i>4p.</i>
30	679	719	54°	50°	47°	57°	319	331	75	90	WSW 5-6	S 1	1	8	0.010	
31	29°598	29°732	55°	52°	47°	58°	374	357	84	91	SE 1	SE 1	10	8	0.120	○ 2 <i>5p.</i>
Means	29°897	29°889	50°	46°	43°	54°	289	277	76°	84°	3°	2°	6°	5°	2°	335



## BABBICOMBE, DEVON.

Height above Mean Sea Level, 293 feet. Long. 3° 31' W. Lat. 50° 29' N.  
MAY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	41°3	41°6	40°6	49°4	ins.	ins.	79	79	ENE 2	ESE 1	10	1	ins.	
2	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
3	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
4	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
5	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
6	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
7	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
8	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
9	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
10	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
11	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
12	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
13	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
14	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
15	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
16	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
17	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
18	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
19	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
20	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
21	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
22	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
23	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
24	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
25	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
26	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
27	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
28	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
29	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
30	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
31	30°386	30°391	41°3	41°6	40°6	49°4	205	173	79	79	E 2	SE 1	10	1	—	
Means	29°886	29°879	50°4	47°7	43°5	56°1	282	276	76°2	83°0	2°6	2°6	7°0	5°3	3°280	

## ST. AUBIN'S, JERSEY.

Height above Mean Sea Level, 139 feet. Long. 2° 10' W. Lat. 49° 11' N.  
MAY 1877.

1	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	Pine with cold breeze.
2	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
3	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
4	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
5	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
6	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
7	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
8	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
9	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
10	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
11	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
12	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
13	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
14	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
15	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
16	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
17	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
18	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
19	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
20	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
21	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
22	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
23	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
24	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
25	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
26	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
27	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
28	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
29	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
30	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
31	30°350	30°391	47°3	44°5	42°7	50°8	236	193	73	66	NE 3	NE 3	9	5	—	
Means	29°927	29°918	52°1	48°8	45°5	55°4	297	292	84°1	84°1	3°2	2°5	6°2	4°2	2°155	

## MARKREE CASTLE.

Height above Mean Sea Level, 131 feet. Long. 8° 27' W. Lat. 54° 11' N.  
MAY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	45°	42°	34°	53°	in.	in.	69	78	ESE 3	SE 2	10	10	ins.	[ a. 0 pp. p



## BIRR CASTLE, PARSONSTOWN.

Height above Mean Sea Level, 182 feet. Long. 7° 55' W. Lat. 53° 6' N.

MAY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	40.8	42.0	39.1	53.2	ins.	ins.	74	82	E 1	SE 0.5	9	2	ins.	
2	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
3	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
4	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
5	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
6	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
7	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
8	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
9	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
10	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
11	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
12	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
13	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
14	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
15	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
16	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
17	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
18	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
19	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
20	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
21	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
22	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
23	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
24	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
25	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
26	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
27	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
28	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
29	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
30	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
31	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	
Means	29.366	29.361	40.8	42.0	39.1	53.2	235	218	74	82	E 1	SE 0.5	9	2	ins.	

## GLENALMOND.

Height above Mean Sea Level, 529 feet. Long. 3° 40' W. Lat. 56° 27' N.

JUNE 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	29.322	29.211	50.0	49.2	45.3	51.4	356	343	99	98	SE 1	SW 2	10	10	320	☉ 9a.—11a.; then ☁☁☁☁. Bright and nearly all day. [sunny p.]
2	29.370	29.307	51.0	49.5	43.3	59.7	251	296	67	84	W 6	SW 2	4	10	140	
3	29.501	29.439	51.8	53.2	46.5	59.0	321	400	83	99	SW 4	SW 3	10	10	260	
4	29.649	29.701	52.6	50.2	37.7	61.0	295	358	74	92	WSW 3	E 1	4	10	240	
5	29.402	29.782	50.7	52.1	49.3	59.2	352	329	95	82	SE 1	SW 1	10	10	230	
6	29.732	29.602	52.0	48.2	47.8	54.0	361	305	93	91	SW 1	SW 3	10	10	770	
7	29.727	29.856	49.6	46.6	42.4	55.0	309	279	88	89	W 5	WSW 5	8	3	180	
8	29.935	29.777	53.2	48.5	44.9	56.0	277	339	69	99	W 3	SW 2	5	10	120	
9	29.783	29.883	53.4	56.0	48.5	62.5	356	381	88	85	WSW 5	SW 3	9	7	100	
10	29.846	29.863	55.6	53.0	50.5	62.5	348	323	79	80	SW 3	W 3	7	3	100	
11	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Beautiful day.
12	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Beautiful day.
13	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
14	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
15	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
16	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
17	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
18	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
19	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
20	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
21	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
22	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
23	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
24	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
25	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
26	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
27	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
28	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
29	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
30	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
31	29.937	29.952	55.0	49.3	48.3	62.5	284	272	66	77	W 4	W 1	5	2	—	Very fine.
Means	29.902	29.920	54.7	50.7	44.2	61.8	338	328	79.2	88.4	2.3	1.9	6.4	6.5	5.200	

## DURHAM.

Height above Mean Sea Level, 335 feet. Long. 1° 35' W. Lat. 54° 46' N.

JUNE 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	10 a.m.	10 p.m.	10 a.	10 p.	Min.	Max.	10 a.	10 p.	10 a.	10 p.	10 a.m.	10 p.m.	10 a.	10 p.	10 a.	
1	ins.	ins.	58.6	49.7	46.4	62.3	in.	in.	75	81	SSE 3.0	SSW 4.0	9	4	ins.	in squalls.
2	29.243	29.375	58.6	49.7	46.4	62.3	367	286	75	81	SW 6.3	S 6.4	5	10	—	
3	516	641	56.9	55.1	47.1	63.0	288	364	62	84	S 5.0	S 2.4	4	0	—	in squalls.
4	603	580	64.7	55.3	54.1	74.1	390	392	63	89	SSW 0.9	SSW 0.5	10	3	—	in squalls.
5	698	554	61.0	54.7	54.1	72.2	442	385	83	90	SSW 7.1	SSW 0.6	9	0	—	
6	547	920	57.7	46.4	45.9	62.5	348	292	73	93	SSE 2.0	SW 2.0	10	0	118	in squalls.
7	822	724	54.8	46.7	44.6	59.1	381	284	89	89	SW 4.2	SW 0.8	5	0	—	in squalls.
8	29.898	30.014	56.7	47.9	45.5	60.5	355	286	77	87	SSW 2.0	SSW 0.9	10	10	060	in squalls p.
9	30.008	29.831	56.3	54.4	46.4	63.1	349	383	76	91	WSW 1.8	SW 0.9	10	1	—	
10	29.932	29.940	58.7	55.0	49.6	67.3	395	381	80	88	SSW 3.0	SW 4.0	6	0	—	in squalls p.
11	29.930	29.959	60.0	53.3	49.5	65.1	392	336	76	82	SW 2.4	NE 0.4	6	9	210	
12	30.010	30.035	61.8	54.9	48.9	69.9	396	344	72	80	NE 0.5	NE 0.2	10	10	153	gp. a.
13	004	009	49.8	49.2	48.5	55.2	317	342	88	98	ENE 0.5	Calm 0.0	0	0	—	
14	069	129	59.7	47.3	46.2	64.5	343	294	67	91	SSE 0.8	SSE 0.7	0	0	—	gp. a.
15	173	208	61.1	48.0	42.8	67.7	331	272	62	82	SSE 0.8	NE 0.3	0	0	—	
16	252	282	62.8	47.2	39.7	65.1	344	282	61	88	SSE 0.8	NE 0.3	0	0	—	gp. a.
17	240	219	66.4	50.1	38.5	70.5	353	326	54	90	SE 0.8	E 0.7	0	10	—	
18	183	177	63.8	52.7	46.2	69.3	386	396	65	99	ENE 0.5	NE 0.5	0	0	—	gp. a.
19	160	183	69.6	55.0	50.8	72.1	415	421	57	97	ENE 0.8	NNE 0.7	0	10	—	
20	162	139	71.8	54.7	53.5	74.2	450	372	57	87	E 0.5	S 0.3	5	9	—	gp. a.
21	30.064	30.058	71.2	52.8	52.5	75.9	483	369	63	92	ESE 0.5	NE 0.5	0	2	—	
22	29.946	29.742	66.3	50.8	50.5	72.2	400	283	63	76	SE 0.8	SE 0.9	6	3	140	
23	517	444	54.3	56.3	49.8	58.0	402	433	95	95	S 0.8	W 0.5	10	10	401	gp. a.
24	29.723	29.961	53.5	44.0	43.7	57.9	287	272	71	94	NNW 2.4	W 0.6	9	8	128	
25	30.055	30.068	56.3	49.4	39.7	65.1	291	293	64	84	WSW 0.3	SW 1.7	7	6	005	gp. a.
26	30.005	29.921	58.0	54.9	46.1	69.1	350	403	73	93	WSW 1.4	SSW 1.8	8	10	010	
27	29.817	29.952	59.6	49.0	48.2	68.4	456	322	89	93	WSW 1.4	W 2.0	10	0	—	gp. a.
28	30.063	30.093	61.2	52.1	47.5	69.2	384	360	72	92	WSW 1.4	SSW 0.5	8	10	—	
29	125	122	67.1	52.8	52.0	76.6	455	383	68	95	NW 1.4	S 1.0	7	10	311	gp. a.
30	056	114	61.3	54.3	52.0	69.0	469	405	87	96	SW 1.8	NW 0.7	10	10	037	
30	30.134	30.089	62.7	51.2	47.2	70.4	380	323	67	86	W 0.8	SW 0.4	9	9	—	gp. a.
Means	29.932	29.950	60.8	51.5	47.6	67.0	380	343	71.6	89.4	1.9	1.2	6.1	5.1	1.693	



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## WAKEFIELD.

Height above Mean Sea Level, 96 feet. Long. 1° 30' W. Lat. 53° 41' N.

JUNE 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	58°	53°	52°	59°	in.	in.	%	%	SSE 2	ESE 7	9	10	ins.	
2	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
3	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
4	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
5	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
6	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
7	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
8	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
9	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
10	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
11	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
12	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
13	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
14	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
15	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
16	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
17	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
18	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
19	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
20	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
21	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
22	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
23	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
24	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
25	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
26	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
27	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
28	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
29	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
30	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	
Means	29°285	29°533	58°	53°	52°	59°	357	297	74	73	SW 4	SW 3	10	8	0.060	

## KELSTERN.

Height above Mean Sea Level, 388 feet. Long. 0° 7' W. Lat. 53° 24' N.

JUNE 1877.

1	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	all day. T p.
2	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	in squalls.
3	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	a. and p. Very fine evening.
4	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine and warm. O p.
5	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	< n. a. and p.
6	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	during day.
7	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	during day.
8	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	
9	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	
10	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	
11	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
12	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
13	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
14	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
15	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
16	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
17	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
18	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
19	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
20	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
21	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
22	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
23	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
24	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
25	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
26	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
27	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
28	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
29	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
30	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	Very fine day.
Means	29°342	29°555	58°	51°	51°	59°	388	315	80	82	S	WSW 5	6	10	206	

## BUXTON.

Height above Mean Sea Level, 987 feet. Long. 1° 54' W. Lat. 53° 14' N.

JUNE 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.	
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.		
1	ins.	ins.	49°	46°	45°	54°	in.	in.	%	%	SW	1	W	3	10	10	ins.
2	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	1	SW	3	10	10	1°000
3	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
4	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
5	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
6	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
7	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
8	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
9	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
10	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
11	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
12	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
13	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
14	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
15	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
16	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
17	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
18	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
19	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
20	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
21	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
22	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
23	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
24	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
25	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
26	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
27	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
28	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
29	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
30	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—
Means	29°218	29°579	49°	46°	45°	54°	317	279	90	89	SW	3	WSW	3	3	3	—



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## UPPINGHAM.

Height above Mean Sea Level, 484 feet. Long. 0° 44' W. Lat. 52° 35' N.  
JUNE 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	52.3	50.2	50.2	50.4	in.	in.	78	78	Sb.E 10	WSW 9	10	10	ins.	Very heavy gusts. Wind lulled, [then blew again 7p.-9p.]
2	29.310	29.626	52.3	50.2	50.2	50.4	379	282	97	78	SW 5	SW 4	10	5	—	
3	746	854	52.8	52.7	48.3	58.9	372	351	93	88	SSW 5	Sb.W 1	7	1	—	K 7p. Wind backed. K 9.50p. [11p.]
4	770	652	62.2	62.5	46.2	75.5	438	468	76	85	SSW 5	Sb.W 1	8	8	0.063	
5	744	29.640	62.1	66.8	49.8	77.8	487	543	79	83	SSW 1	SEb.S 1	8	8	—	K 7p. Wind backed. K 9.50p. [11p.]
6	801	30.007	57.4	53.0	48.8	66.8	345	325	73	81	SW 8	swb.W 1	8	9	—	
7	29.975	29.857	54.5	49.9	42.5	58.4	334	313	78	88	SWb.S 5	Wb.S 3	10	1	0.067	K 7p. Wind backed. K 9.50p. [11p.]
8	30.004	30.170	54.3	51.4	43.0	62.5	313	279	74	74	Wb.S 4	SW 2	8	8	—	
9	130	29.953	57.8	58.5	42.8	69.0	337	403	71	82	SW 2	SSW 1	9	9	—	K 7p. Wind backed. K 9.50p. [11p.]
10	067	30.094	61.2	57.3	50.4	69.0	403	369	73	79	Wb.S 2	WSW 1	9	1	—	
11	086	072	61.6	58.2	49.0	71.9	354	418	65	86	swb.W 3	swb.W 2	1	4	—	K 7p. Wind backed. K 9.50p. [11p.]
12	30.101	30.042	63.8	61.4	50.9	74.0	452	450	76	83	WSW 2	W 1	9	4	0.013	
13	29.912	29.932	60.7	52.8	50.2	62.4	474	389	90	97	ENE 1	NE 2	10	10	0.240	K 7p. Wind backed. K 9.50p. [11p.]
14	30.033	30.097	55.2	52.5	50.2	60.8	398	336	91	85	ENE 3	ENE 1	10	10	—	
15	159	162	57.5	51.0	44.9	72.3	375	351	79	94	Eb.N 2	Eb.N 2	5	0	—	K 7p. Wind backed. K 9.50p. [11p.]
16	212	227	63.5	52.2	45.1	74.0	428	345	73	89	E 1	Eb.N 1	0	0	—	
17	212	168	64.9	51.2	44.1	74.8	398	361	64	96	Eb.N 2	Eb.N 2	0	2	—	K 7p. Wind backed. K 9.50p. [11p.]
18	126	093	59.2	58.1	46.0	81.8	400	435	80	89	NEb.E 3	NEb.E 1	1	0	—	
19	091	115	69.7	61.0	49.2	85.1	501	436	70	82	NEb.E 2	NEb.E 1	0	9	—	K 7p. Wind backed. K 9.50p. [11p.]
20	127	149	69.3	54.8	51.1	75.2	480	330	67	77	NEb.E 1	NEb.E 1	8	1	—	
21	30.099	30.036	65.1	50.5	47.2	80.5	417	351	68	76	NEb.E 1	E 2	1	3	—	K 7p. Wind backed. K 9.50p. [11p.]
22	29.960	29.768	62.4	61.0	46.1	80.7	368	388	65	73	E 1	Eb.S 1	9	10	0.286	
23	588	477	59.0	57.8	53.2	68.6	442	454	89	94	SSW 3	Wb.S 2	10	10	0.176	K 7p. Wind backed. K 9.50p. [11p.]
24	29.680	29.982	53.1	49.9	49.1	58.6	334	328	82	92	WNW 4	Nb.W 1	10	10	—	
25	30.092	30.156	57.0	52.0	40.1	65.8	332	308	71	79	NNW 1	NW 1	7	9	—	K 7p. Wind backed. K 9.50p. [11p.]
26	135	086	59.9	56.3	43.6	64.2	366	366	70	80	WNW 2	W 2	4	8	—	
27	020	033	59.3	55.7	51.0	62.4	415	422	82	95	Wb.S 4	W 3	10	1	0.139	K 7p. Wind backed. K 9.50p. [11p.]
28	124	212	57.0	52.6	52.0	64.8	341	326	73	81	WNW 4	NW 1	8	4	—	
29	232	198	64.3	63.3	45.0	73.8	424	448	71	77	NW 3	Calm 0	9	4	—	K 7p. Wind backed. K 9.50p. [11p.]
30	181	167	66.1	64.4	47.0	79.3	439	458	69	76	Wb.S 2	SW 1	9	5	—	
Means	30.218	30.117	61.1	62.8	46.3	75.0	447	449	83	79	N 1	NNW 1	10	10	—	K 7p. Wind backed. K 9.50p. [11p.]
Means	30.001	30.005	60.3	56.3	47.4	70.1	400	383	76.4	83.9	2.9	1.7	7.0	5.5	1.121	

## OSCOTT.

Height above Mean Sea Level, 460 feet. Long. 1° 51' W. Lat. 52° 33' N.  
JUNE 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	29.232	29.624	51.0	49.0	48.9	59.5	348	300	93	87	SSE 3	sw-ssw 5	10	10	0.250	T 0.20p. and 1.10p. p.
2	701	819	53.0	54.2	49.0	57.2	383	355	95	84	SSW 5	SSW 3-4	10	9	0.010	
3	730	630	62.1	60.6	49.2	75.3	376	362	68	69	S 3	S 3	1	0	—	Day very fine. ☀
4	714	584	63.6	68.0	50.2	72.7	466	552	79	81	SW 1	S 4	10	9	—	
5	773	992	54.1	51.9	50.0	68.8	331	300	79	78	SW 6	SSW 3	10	2	—	☀
6	29.914	29.871	53.7	48.5	46.4	57.2	333	294	81	87	SSW 5	SW 4	10	0	0.120	
7	30.081	30.161	56.7	50.0	44.0	63.1	317	267	69	75	SW 4	SW 3	7	1	—	☀
8	106	29.934	56.5	58.9	43.2	67.5	329	360	72	72	S 3	SW 2	9	10	0.010	
9	079	30.073	58.0	57.5	52.4	67.2	362	375	75	80	SW 3	Calm 0	9	0	—	☀
10	058	078	62.2	56.2	50.4	68.7	400	396	72	88	S 4-5	WSW 1-2	9	1	—	
11	30.091	30.027	62.7	60.0	51.4	71.2	418	432	74	84	SW 3	N 2	9	10	0.020	☀
12	29.914	29.945	57.3	52.1	51.9	60.2	439	390	93	100	NNE 3	NNE 3-4	10	10	0.020	
13	30.036	30.078	55.2	56.0	50.5	60.1	376	368	87	82	NE 2	ENE 3	10	10	—	☀
14	143	145	56.2	55.1	48.0	68.0	328	356	72	82	NE 3	ENE 3	9	0	—	
15	204	192	58.5	57.1	46.4	70.4	364	353	75	76	ENE 3-4	ENE 3-4	1	0	—	☀
16	194	142	62.0	57.6	44.1	73.2	375	344	68	73	ENE 3	NNE 3	0	0	—	
17	127	080	57.0	61.9	46.2	75.7	367	403	79	74	NNE 3-4	NNE 3	1	0	—	☀
18	087	094	65.1	66.1	51.1	79.5	446	436	72	68	NE 3	NE 3	0	10	—	
19	130	30.130	67.4	59.7	52.8	76.9	475	375	71	74	ENE 2	ENE 2	5	0	—	☀
20	30.083	29.990	65.6	65.5	48.9	76.8	358	412	57	66	E 1	E 2	7	2	—	
21	29.939	29.995	63.3	61.9	49.6	72.8	310	431	54	79	ENE 2	E 0-1	9	10	0.260	☀
22	555	29.495	62.0	58.0	54.1	68.7	444	454	80	94	S 4	WSW 2	9	10	0.060	
23	29.708	30.003	53.9	48.2	48.2	58.9	316	243	76	73	WNW 6	NW 2	9	0	—	☀
24	30.110	173	54.2	52.1	41.9	62.8	288	293	69	75	NW 2	NW 1	7	9	—	
25	133	114	60.0	55.9	44.3	63.1	347	371	67	83	SW 3	SW 3	8	9	—	☀
26	025	033	58.0	56.8	53.0	62.4	457	420	94	90	SW 4-5	SW 2	10	5	0.060	
27	142	225	56.6	54.0	50.1	63.3	311	290	68	70	NNW 3	NNW 1	6	10	—	☀
28	225	190	64.1	64.0	49.4	75.0	394	443	66	71	W 2	W 0-1	9	10	—	
29	175	164	65.8	62.2	54.5	79.6	392	378	63	68	SW 4	SW 3	9	9	—	☀
30	30.209	30.124	62.0	57.9	55.2	71.0	419	371	76	78	NW 1	N 3	10	10	—	
Means	29.987	29.994	59.3	57.2	49.2	68.2	376	370	74.8	78.7	3.2	2.5	7.4	5.5	0.810	☀
Means	29.987	29.994	59.3	57.2	49.2	68.2	376	370	74.8	78.7	3.2	2.5	7.4	5.5	0.810	

## CHURCHSTOKE.

Height above Mean Sea Level, 548 feet. Long. 3° 5' W. Lat. 52° 31' N.  
JUNE 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	°	°	°	°	in.	in.	°/°	°/°	SE 1	SSW 3	10	10	ins.	Lovely summer day.
2	29.177	29.608	49.9	49.6	47.8	58.0	321	339	90	90	SSW 1	SW 1	10	5	0.086	
3	665	800	53.1	53.3	49.1	58.8	393	344	97	84	SSE 2	S 1	2	1	—	Lovely summer day.
4	698	634	59.3	56.0	50.7	72.6	377	381	74	85	SSE 1	SSE 2	9	7	0.006	
5	715	575	59.0	66.2	54.4	71.7	427	533	86	83	SW 3	Calm 0	10	1	0.046	Squalls ga.
6	758	996	52.9	50.1	50.1	71.8	336	368	84	85	SSE 1	SW 1	10	5	0.158	
7	29.867	29.905	52.1	48.3	47.6	57.6	378	299	97	89	SW 2	SSW 1	4	1	—	b
8	30.179	30.179	54.4	48.0	46.5	57.5	331	312	78	94	SSE 2	WNW 0.5	10	6	0.030	
9	096	29.949	51.9	50.0	41.1	63.3	355	419	92	93	SSW 1	SW 1	9	9	—	Lovely day.
10	071	30.082	55.0	50.0	52.4	64.4	409	431	94	96	SSW 3	WNW 1	6	5	—	
11	028	30.102	60.4	53.2	50.3	68.3	410	345	78	85	Calm 0	Calm 0	7	3	0.335	Hot sun.
12	30.099	30.060	59.9	54.9	49.1	68.2	377	375	74	88	Calm 0	Calm 0	10	10	0.121	



## AUDLEY END, ESSEX.

Height above Mean Sea Level, 154 feet. Long. 0° 13' E. Lat. 52° 1' N.

JUNE 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	57.5	53.3	52.7	58.2	ins.	ins.	70	73	S	4	10	8	ins.	2 in squalls p.
2	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
3	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
4	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
5	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
6	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
7	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
8	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
9	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
10	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
11	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
12	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
13	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
14	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
15	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
16	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
17	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
18	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
19	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
20	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
21	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
22	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
23	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
24	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
25	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
26	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
27	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
28	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
29	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
30	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	
Means	29.403	29.739	57.5	53.3	52.7	58.2	29.403	29.739	70	73	SW	3	10	8	—	

## CARMARTHEN.

Height above Mean Sea Level, 188 feet. Long. 4° 18' W. Lat. 51° 52' N.

JUNE 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	Stormy.
2	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	Stormy all day.
3	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	Fine and warm.
4	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	Stormy night. Fine day.
5	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	Pine.
6	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
7	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
8	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
9	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
10	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
11	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
12	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
13	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
14	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
15	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
16	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
17	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
18	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
19	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
20	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
21	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
22	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
23	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
24	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
25	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
26	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
27	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
28	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
29	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
30	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	
Means	29.167	29.613	55.7	51.8	49.9	59.9	29.167	29.613	88	98	SW	2	8	10	840	

## MARLBOROUGH, WILTS.

Height above Mean Sea Level, 471 feet. Long. 1° 43' W. Lat. 51° 25' N.

JUNE 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.		
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.			
1	ins.	ins.	51.6	50.6	50.1	57.2	ins.	ins.	88	81	SW	1.2	SW	3.0	10	10	ins.	a. nearly all day. ga., and before.
2	29.285	29.768	51.6	50.6	50.1	57.2	29.285	29.768	88	81	SW	4.4	SW	0.6	10	10	564	
3	823	038	52.0	55.4	50.2	58.7	371	334	96	77	SE	0.3	SW	0.1	1	1		
4	776	715	54.3	58.9	47.3	75.3	428	323	72	65	S	0.1	S	0.6	8	9		
5	752	29.725	62.6	58.9	50.8	76.7	436	345	77	70	S	0.1	SW	0.6	8	9		
6	29.909	30.077	56.6	50.7	50.7	64.6	321	256	70	70	S	3.0	S	0.6	9	0	007	before ga.
7	30.009	29.973	52.9	46.8	45.0	55.5	334	292	83	91	S	0.6	SW	0.6	10	0	141	
8	183	30.229	55.9	51.9	43.1	64.5	304	324	69	84	SW	0.3	W	0.1	8	8		
9	187	009	58.7	58.5	47.4	69.0	294	353	59	73	S	0.3	S	0.1	10	6		
10	128	134	62.8	55.8	50.1	71.6	361	358	64	80	SW	0.6	Calm	0	1	0		
11	130	118	63.5	58.4	48.6	74.0	357	418	61	86	S	0.3	Calm	0	0	1		
12	30.121	30.001	66.1	65.5	48.4	77.9	422	514	66	83	Calm	0	Calm	0	5	5	032	p. a. a.
13	29.885	29.912	63.6	60.5	59.1	71.0	509	483	86	92	Calm	0	N	0.1	10	10		
14	30.003	30.057	55.6	58.8	53.8	61.9	412	355	93	72	N	0.1	E	0.6	10	10		
15	108	120	59.7	55.5	51.8	69.6	382	293	75	67	E	0.3	E	0.1	9	0		
16	179	171	58.9	58.6	50.1	73.4	386	349	78	71	E	0.1	E	0.1	3	0		
17	160	097	64.8	61.5	47.8	75.9	406	357	66	66	E	0.1	NE	0.1	0	0		
18	091	043	62.8	61.8	50.7	76.5	435	375	75	69	NE	0.3	NE	0.1	0	0		
19	057	099	69.9	65.3	52.6	81.8	465	431	63	69	NE	0.1	Calm	0	2	1		Watery-looking moon.
20	123	30.105	71.6	66.3	54.7	80.6	393	454	51	70	E	0.1	Calm	0	4	0		
21	30.075	29.992	68.5	67.0	56.1	76.9	470	524	67	80	E	0.1	Calm	0	3	10		
22	29.911	732	65.1	61.8	55.5	73.5	333	503	53	91	Calm	0	SE	0.3	6	10	057	
23	033	29.581	59.3	58.4	55.8	68.9	389	443	77	90	S	0.3	SW	0.1	10	10	049	
24	29.778	30.008	54.5	51.7	51.7	63.6	287	293	68	77	W	0.6	Calm	0	10	9		
25	30.140	192	59.9	53.3	40.7	65.4	286	309	55	76	Calm	0	Calm	0	6	8		
26	193	177	63.1	55.0	44.1	69.7	272	346	47	80	Calm	0	SW	0.1	0	6		
27	144	122	59.1	56.4	50.9	66.7	493	410	80	99	SW	0.3	NW	0.6	10	3	060	
28	162	238	61.6	57.1	54.3	68.9	389	364	72	78	Calm	0	Calm	0	7	0		
29	276	207	67.3	60.6	44.9	76.0	346	362	51	69	NW	0.1	Calm	0	2	4		
30	251	248	70.9	60.6	54.2	79.4	378	413	49	79	Calm	0	Calm	0	0	0		
31	30.235	30.139	66.2	63.2	51.8	70.9	483	480	76	85	Calm	0	Calm	0	10	9	214	
Means	30.021	30.033	61.6	58.2	50.4	70.5	379	379	69.6	77.7	0.5	0.3	5.8	4.7	1.1	115		



## RAMSGATE.

Height above Mean Sea Level, 105 feet. Long. 1° 25' E. Lat. 51° 20' N.

JUNE 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.		
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.				
1	ins.	ins.	55.9	52.7	52.0	59.3	ins.	ins.	77	76	S	8	SW	8	ins.	[10], 10p.—Midt.		
2	29.591	29.806	55.9	54.6	51.8	61.4	335	364	78	86	SW	7	SW	2	—	and squalls all day. 2 (force)		
3	29.840	29.742	60.4	64.1	52.2	70.8	388	431	74	73	S	3	SW	3	0.41	in squalls. 10p.		
4	29.761	29.680	64.0	65.8	52.1	76.1	461	485	77	77	NW	3	SE	3	0.39	10p.		
5	29.933	30.079	56.2	54.9	52.9	66.9	336	364	74	85	SW	6	SW	4	3	8	in squalls.	
6	30.061	29.967	56.5	54.6	51.2	63.1	404	404	88	95	SE	5	SW	6	9	0.31	in squalls p.	
7	29.799	30.216	58.2	51.8	45.2	65.3	305	329	63	85	SW	4	SW	2	5	10	in squalls.	
8	29.737	29.922	58.2	57.6	46.2	66.0	325	269	67	57	SE	2	SE	1	8	9	0.45	
9	29.999	29.915	68.8	58.7	57.5	74.8	428	415	61	85	W	1	S	2	3	4	—	
10	29.735	29.907	65.4	59.3	52.3	71.9	457	462	74	91	S	2	SE	1	5	0	—	10p.
11	30.096	30.061	67.9	59.7	56.4	73.3	485	447	72	88	W	1	NE	2	3	10	1010	K <sup>2</sup> 2 7.30p—11p.
12	29.863	29.889	61.3	57.3	57.2	71.1	475	294	88	62	NE	3	NE	4	6	10	—	
13	29.988	30.062	56.8	54.2	54.0	61.8	412	364	89	86	NE	4	NE	5	10	6	—	
14	30.119	30.073	58.7	55.3	54.1	61.4	349	400	71	91	NE	4	NE	3	2	—	—	in squalls p. 10p.
15	29.742	29.744	61.8	56.4	55.0	64.4	428	369	78	81	NE	5	NE	4	1	0	—	in squalls p.
16	29.725	29.954	62.3	58.6	55.9	64.3	431	422	77	86	NE	3	NE	4	0	0	—	in squalls p.
17	29.936	29.909	65.4	60.1	57.9	69.4	449	416	72	80	E	2	NE	4	1	0	—	in squalls a.
18	29.939	29.969	68.8	61.4	57.9	74.8	415	381	58	71	E	1	NE	3	2	5	—	ga.
19	29.971	30.118	68.7	57.6	56.9	76.3	503	444	72	93	NW	2	NE	1	1	4	—	ga.
20	30.066	29.997	59.0	57.2	54.1	67.1	436	362	88	77	NE	1	E	2	10	3	—	ga. and op.
21	29.903	29.722	59.8	58.0	55.4	68.5	456	465	89	94	NE	3	NE	1	10	10	0.35	10p.
22	29.646	29.572	61.8	57.7	57.6	65.1	469	400	85	84	SW	4	SW	6	9	10	0.34	in squalls, op.
23	29.688	29.941	59.0	54.7	54.3	64.4	406	365	81	86	W	2	NE	3	10	10	0.39	
24	30.082	30.133	59.2	54.6	49.2	65.3	357	333	71	78	NW	3	SW	2	5	3	—	10p.
25	29.738	29.995	62.4	58.8	49.3	65.9	365	404	65	82	NW	1	SW	2	4	10	—	ga.
26	29.704	29.968	65.1	58.3	49.6	68.1	410	449	67	92	SW	5	SW	4	5	9	0.81	ga.
27	29.997	29.979	63.9	59.0	55.8	69.0	404	391	79	78	W	3	NW	2	9	6	—	ga.
28	29.738	29.930	63.0	59.0	49.0	70.8	410	419	72	84	W	3	SW	2	7	7	—	ga.
29	29.741	29.990	69.8	61.2	55.6	73.8	529	449	73	83	SW	3	SW	3	2	4	—	ga.
30	30.197	30.105	65.5	60.1	55.2	73.7	605	475	87	91	SW	1	E	2	5	5	—	ga. and op.
Means	30.015	30.014	62.0	58.1	53.4	68.1	421	396	75.6	82.6	5.2	3.0	5.3	5.7	1.663			

## HASTINGS.

Height above Mean Sea Level, 172 feet. Long. 0° 38' E. Lat. 50° 52' N.

JUNE 1877.

1	29.560	29.861	55.0	52.6	51.2	57.5	349	325	81	82	SSW	7-8	SW	8	10	10	1020	K <sup>2</sup> 2.25a. 2 from SW all day.
2	29.959	30.013	54.2	55.3	51.7	56.3	348	345	83	79	SW	5-6	WSW	2	10	10	2	
3	29.882	29.760	60.3	64.1	51.0	72.6	384	437	74	73	SE	1	SSW	1	0	2	1025	Very fine day. Roar of sea distinct.
4	29.778	29.759	64.9	63.3	58.0	73.7	436	461	71	79	NE	1	SW	4	3	10	1090	
5	29.977	30.120	56.5	54.0	51.9	64.5	360	382	78	92	WSW	6	SSW	2	8	10	10	O 5 p. [Storm seemed stationary, overhead. < 2 flashing apparently from clouds. [From 9 p.-10.30 p. a lull, after which storm burst with renewed fury.
6	30.097	29.991	58.8	53.8	51.1	60.4	348	400	70	96	SW	2	SSW	6	1	10	1055	
7	29.708	29.253	56.2	51.4	44.9	58.2	338	319	75	85	WSW	4-5	WSW	3	2	10	10	K <sup>2</sup> n. Distant T in evening.
8	29.762	29.933	58.5	62.3	48.3	69.9	292	382	59	69	E	2	E	1	10	10	10	
9	29.720	29.566	66.4	54.8	54.2	68.1	422	373	65	88	SW	2	W	1	0	0	10	Sea at times. Paraselena 10.40 p.
10	29.748	29.719	61.9	57.7	50.2	66.4	437	434	79	91	SSW	1	Calm	0	10	0	10	
11	30.112	29.971	67.5	60.3	53.6	75.1	472	439	71	84	SSE	1	NE	6	3	10	1710	before 9a.
12	29.870	29.885	66.9	59.9	57.4	75.5	526	475	80	93	E	2	ESE	2	1	10	10	
13	29.965	30.025	59.8	55.0	54.3	63.8	459	367	90	85	NE	4	NE	5	10	0	10	Partial O p.
14	30.078	29.980	59.4	55.0	52.5	64.6	393	375	78	87	NE	4-5	NE	5	4	0	10	
15	29.726	29.739	64.0	56.7	52.6	69.0	379	353	63	76	NE	5-6	NE	5-6	0	0	10	Partial O p.
16	29.715	29.961	65.3	60.2	54.7	71.9	409	399	66	76	NE	5	NE	6	0	0	10	
17	29.935	29.904	68.4	63.6	57.0	73.0	389	384	56	66	NE	4	NE	5	0	0	10	Partial O p.
18	29.933	29.968	70.7	60.4	58.8	76.5	431	431	57	83	NE	4	NE	3	0	1	10	
19	29.995	29.707	70.2	61.5	57.2	71.9	524	427	70	78	S	1	NE	1	0	0	10	Partial O p.
20	30.095	30.023	60.9	55.9	54.1	66.4	409	307	88	68	E	1	NNE	2	10	0	10	
21	29.995	29.767	66.2	58.9	52.1	71.1	482	479	75	97	NE	2	Calm	0	6	10	10	Partial O p.
22	29.700	29.636	58.1	57.0	55.3	63.9	465	403	96	86	SW	1	WSW	7	10	10	10	
23	29.648	29.973	58.8	54.9	54.4	63.9	370	351	75	81	W	5	NNE	2	5	2	10	Partial O p.
24	30.100	30.171	58.9	52.5	47.5	67.2	319	322	63	81	N	3	WNW	1	1	0	10	
25	29.722	29.713	61.9	55.1	49.5	64.0	339	385	61	88	S	1	W	1	1	0	10	Partial O p.
26	29.753	29.730	60.8	56.2	47.7	62.2	419	425	79	94	SW	5	W	2	2	9	10	
27	29.730	29.712	61.9	58.5	54.7	68.6	461	446	84	91	W	1	NE	1	10	1	1020	Partial O p.
28	29.769	29.765	64.7	57.4	50.7	70.2	357	348	58	73	W	1	WNW	1	1	2	10	
29	29.771	29.743	65.4	60.3	52.9	68.7	370	323	59	62	SW	1	WSW	2	0	0	10	Partial O p.
30	30.231	30.128	64.5	62.7	52.2	72.6	447	358	74	64	SSW	1	NW	1	2	1	10	
Means	30.033	30.037	62.2	57.7	52.7	67.6	406	389	72.6	81.6	2.8	2.9	4.0	4.0	2.070			

## DARTMOOR.

Height above Mean Sea Level, 1,372 feet. Long. 3° 59' W. Lat. 50° 33' N.

JUNE 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.	
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.			9 a.m.
	ins.	ins.	°	°	°	°	ins.	ins.	%	%	S	9	SW	9	10	10	ins.
1	29.358	29.862	47.6	47.6	45.0	52.2	.330	.319	100	97	SW	8	S	6	10	10	950
2	29.73	29.85	49.6	48.6	47.0	49.8	.356	.343	100	100	SSE	6	S	1	0	10	910
3	29.727	29.784	62.1	50.0	44.5	65.0	.325	.361	58	100	Caln	0	SW	7	10	10	040
4	29.763	29.740	55.0	47.6	47.0	61.6	.433	.295	100	90	SW	5	SW	4	10	10	030
5	30.006	30.101	48.8	47.6	45.6	54.6	.329	.319	95	97	SW	5	SW	7	10	10	880
6	29.966	29.977	48.6	43.6	42.6	50.6	.343	.261	100	92	SSE	7	W	3	10	8	1040
7	30.253	30.2	51.0	46.2	41.6	54.6	.312	.298	84	96	W	2	Caln	0	7	8	—
8	30.125	30.097	53.0	47.6	44.0	60.4	.315	.281	78	86	E	4	W	2	8	2	030
9	29.209	29.205	51.1	48.6	46.6	57.2	.342	.343	91	100	SW	2	SW	2	10	10	—
10	29.206	29.204	51.9	51.1	46.6	57.0	.386	.375	100	100	SW	2	W	1	10	10	—
11	30.167	30.019	62.4	60.0	57.0	71.6	.379	.456	68	89	Caln	0	SW	1	6	9	220
12	29.898	29.966	58.1	60.4	54.5	65.8	.483	.512	100	98	E	5	Caln	0	10	10	—
13	30.033	30.098	57.5	55.0	54.5	62.6	.457	.433	97	100	E	1	E	5	10	10	—
14	30.113	30.144	53.3	53.3	51.5	63.0	.386	.357	96	88	E	5	E	1	10	0	—
15	30.141	30.188	62.8	53.0	48.8	66.0	.403	.323	71	80	E	5	E	1	0	0	—
16	30.096	30.113	61.4	55.1	48.5	68.6	.393	.386	73	89	E	7	E	5	0	0	—
17	30.060	30.098	65.2	57.5	48.5	71.0	.425	.457	69	97	E	7	Caln	0	0	1	—
18	30.062	30.144	73.4	60.4	48.8	75.6	.439	.462	53	89	E	1	Caln	0	3	9	—
19	30.171	30.222	63.6	54.5	57.6	74.3	.483	.381	82	90	Caln	0	Caln	0	10	0	—
20	30.101	30.054	66.6	56.7	53.0	67.6	.482	.412	74	90	Caln	0	Caln	0	10	0	—
21	29.916	29.819	63.8	55.5	54.0	63.8	.446	.441	75	100	E	4	Caln	0	8	10	420
22	29.694	29.755	53.5	53.0	51.0	56.6	.410	.403	100	100	SW	3	W	4	10	10	290
23	29.927	29.158	50.0	45.0	45.0	54.0	.319	.254	89	85	NW	4	NW	1	6	0	—
24	30.216	30.325	54.0	44.6	43.5	57.6	.268	.259	64	88	NW	3	NW	4	5	1	—
25	30.278	30.305	54.5	51.0	42.0	59.6	.330	.334	78	90	W	1	W	1	6	8	—
26	30.252	30.246	52.5	53.5	50.0	62.0	.396	.410	100	100	W	3	W	3	10	10	120
27	30.232	30.339	57.5	49.5	49.0	63.6	.413	.296	87	84	NW	1	Caln	0	7	4	—
28	30.311	30.354	65.4	55.3	47.0	68.6	.312	.287	50	66	Caln	0	W	1	1	4	—
29	30.340	30.351	62.4	56.0	54.5	68.4	.240	.380	43	87	W	1	Caln	0	1	2	—
30	30.290	30.247	60.4	54.5	51.0	63.6	.479	.356	92	84	Caln	0	Caln	0	10	10	030
Means	30.059	30.109	57.2	52.1	48.2	62.1	.381	.360	82.2	91.7	3.2		2.2		6.8	6.3	4.060



## ST. AUBIN'S, JERSEY.

Height above Mean Sea Level, 139 feet. Long. 2° 10' W. Lat. 49° 11' N.

JUNE 1877.

Day.	Barometer.		Air Temperature.			Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	
1	ins.	ins.	55.7	53.3	51.2	59.1	ins.	ins.	79	79	SW 7	SW 5	10	0	ins. with squalls.
2	29.018	29.018	57.2	54.0	52.3	62.2	359	350	76	84	SW 4	SW 1	9	0	Wind moderating. D. n. [10p.
3	29.793	29.786	62.9	55.2	52.8	73.0	394	363	69	84	SE 2	Calm 0	0	0	D. a. D. p. Very fine day. < from
4	29.747	29.830	64.8	55.3	52.6	72.0	399	351	65	80	E 3	SW 3	2	1	—
5	30.062	30.157	59.4	52.1	51.0	64.3	376	324	74	83	SW 4	Calm 0	2	1	0.01 D. p.
6	30.108	30.115	58.0	50.3	50.0	60.0	372	334	77	92	S 3	W 2	10	2	0.012 7.30p.
7	29.854	29.856	56.8	52.8	47.0	61.3	348	304	75	76	SW 3	NNE 1	4	2	— Extremely fine.
8	29.120	29.049	61.5	60.1	50.2	74.2	410	353	76	68	SE 2	NW 1	6	1	— Extremely fine but cloudy from 5p-8p.
9	29.204	29.183	59.0	55.7	52.2	63.8	424	407	86	91	W 1	N 1	10	1	— 0.001 a.
10	29.170	29.160	61.1	55.2	53.9	67.5	444	381	82	88	NE 2	N 2	10	0	— [ < and T at night.
11	30.105	29.943	63.9	65.2	54.0	72.0	438	507	74	82	NE 2	NE 3	1	10	1.143 Very fine. T 5p. Squall 6p. K 6.30p.
12	29.858	29.966	70.9	56.2	55.5	71.4	573	440	76	98	SE 1	W 1	0	10	— 0.001 at night.
13	29.981	29.992	59.7	58.9	53.7	69.2	487	468	95	95	SE 1	NE 2	10	10	0.004 0.001 a. < after 7p.
14	29.978	29.920	65.1	59.5	57.0	69.5	509	429	82	85	NE 4	NE 3	5	0	— Very fine.
15	29.065	29.046	66.6	61.1	56.8	72.5	434	412	67	77	NE 4	NE 5	2	0	— < at night.
16	29.035	29.078	70.0	63.2	58.3	72.7	424	427	58	74	E 4	NE 3	0	1	— Very fine.
17	29.978	29.002	67.8	59.4	59.4	74.7	473	434	69	87	NE 1	N 1	5	4	— 0.001 7.40p. with fall of temperature.
18	30.042	30.116	64.1	56.2	54.6	69.2	457	422	77	93	SW 2	W 1	7	10	— D. p.
19	30.180	30.170	61.3	58.2	55.1	68.0	441	421	81	87	W 2	Calm 0	10	3	— Coloured 0 2.40p.
20	30.112	29.978	67.1	63.1	53.1	71.1	432	454	65	78	Calm 0	SE 1	3	10	0.093 K 0 and T 3a-4a. and fall of temp. 5p.
21	29.902	29.813	62.7	59.5	59.5	67.5	535	473	94	93	Calm 0	Calm 0	10	6	1.172 Squall with 0.001 5p.
22	29.721	29.770	59.3	56.4	55.8	64.0	463	437	92	96	SW 4	W by S 4	10	10	— D. p.
23	29.909	29.080	60.1	51.0	51.0	64.3	422	333	81	89	NW 3	Calm 0	9	0	— D. p.
24	30.177	30.257	61.2	52.8	47.5	63.5	339	353	63	88	N 2	Calm 0	4	0	— Very fine but cool. D. p.
25	29.265	29.272	60.9	52.8	47.8	63.8	330	361	61	90	NW 2	Calm 0	3	0	— Coloured 0 1p.
26	29.272	29.227	61.2	54.0	50.2	65.6	408	388	76	93	SW 2	NW 1	7	1	— Coloured 0 10a. D. p.
27	29.194	29.224	64.0	57.4	48.8	69.7	473	462	79	98	W 2	NW 1	6	1	—
28	29.251	29.254	64.1	59.0	49.9	74.6	581	407	87	82	SW 2	Calm 0	2	1	— N.B.—The observations 27th-30th were taken at Millbrook, near St. Aubin's.
29	29.274	29.262	67.0	61.3	48.6	76.0	493	370	75	68	SW 2	N 2	1	0	—
30	30.234	30.133	71.0	64.0	54.1	77.2	464	394	61	74	NE 2	NE 2	1	1	—
Means	30.055	30.068	62.8	57.0	52.8	68.5	432	396	75.5	85.1	2.4	1.5	5.3	2.9	0.435

## MARKREE CASTLE.

Height above Mean Sea Level, 131 feet. Long. 8° 27' W. Lat. 54° 11' N.

JUNE 1877.

Day.	Barometer.		Air Temperature.			Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	
1	29.191	29.268	52.7	49.1	40.9	58.1	329	286	83	82	SSW 2	SSW 3	10	10	1.127
2	29.400	29.480	51.1	51.6	43.1	59.3	350	320	93	83	SSW 4	SSW 3	8	10	0.022
3	29.249	29.503	56.3	47.9	47.5	57.2	390	254	86	77	SSW 5	SW 2	10	3	1.105 D. p.
4	29.636	29.503	54.1	47.2	43.4	57.3	311	308	75	96	SW 3	Calm 0	10	10	0.405
5	29.593	29.653	55.7	53.3	47.2	61.7	299	373	68	92	SSW 3	SSE 4	4	10	0.025 K in past night.
6	29.726	29.797	53.7	49.1	47.0	60.7	296	304	72	87	SSE 2	SW 2	6	8	0.035 D. p.
7	29.891	29.920	53.6	48.3	46.5	59.4	297	269	72	80	NW 3	ESE 2	6	7	0.015 D. p.
8	29.816	29.710	49.9	54.1	44.1	57.4	320	362	90	87	SE 4	SW 3	10	10	1.120
9	29.846	29.880	58.8	55.1	52.4	64.6	362	351	73	81	S 4	S 2	6	10	0.050
10	29.811	29.921	58.2	50.9	50.8	63.6	342	352	71	95	SW 3	S 1	6	10	0.035
11	30.033	30.063	57.0	52.1	45.0	62.4	329	314	71	80	SW 2	NW 2	8	8	—
12	30.029	30.031	56.7	50.3	45.2	61.2	302	316	66	87	N 1	NW 0.5	5	2	— D. p.
13	30.030	30.043	62.0	59.8	39.2	68.1	402	400	73	78	E 2	SSE 2	2	10	— D. ga. and 0p.
14	30.069	30.082	67.0	60.4	47.3	71.2	462	450	70	87	SE 3	Calm 0	8	7	— 0.001 a. D. p.
15	30.119	30.096	67.0	59.0	49.9	72.6	456	380	69	74	ESE 1	SE 3	4	9	0.001 0.001 a.
16	30.106	30.089	66.8	58.8	53.0	74.1	423	386	65	78	SE 3	SE 0.5	5	1	— D. p.
17	30.092	30.092	71.0	62.0	47.1	75.4	433	402	57	73	E 1	Calm 0	2	0	— D. p.
18	30.079	30.071	72.2	62.2	49.1	77.0	455	386	56	69	SE 2	Calm 0	2	2	—
19	30.093	30.068	71.0	64.0	48.6	76.6	467	364	61	95	SE 1	E 1	4	10	2.238 D. ga. T 3.30p. K 4.45p-7.30p.
20	30.051	29.994	65.5	59.2	59.2	73.9	548	494	88	98	SE 2	N 3	10	10	—
21	29.893	29.725	59.2	58.2	57.6	63.2	484	482	97	100	N 1	NW 1	10	10	0.507 D. ga.
22	29.822	29.726	56.1	50.1	49.9	60.4	421	392	83	81	NW 1	NW 4	10	10	0.067
23	29.913	29.085	53.3	47.1	46.9	57.4	270	259	67	80	NW 4	NW 0.5	6	3	—
24	30.220	30.168	56.1	52.1	35.6	60.6	296	337	66	86	N 1	WNW 2	5	10	0.750 D. ga.
25	30.090	29.986	56.1	57.8	50.8	63.1	398	430	88	89	WNW 3	W 3	10	10	0.250
26	29.954	29.099	58.0	53.1	53.1	61.7	424	395	88	76	WNW 4	W 3	10	6	—
27	30.195	30.207	57.9	54.4	45.9	62.8	366	364	76	86	W 2	SSE 0.5	10	10	0.006
28	30.128	30.017	62.8	59.8	45.3	64.4	392	466	69	91	SW 3	SW 3	7	10	0.164
29	30.090	30.174	55.1	51.0	51.0	64.2	377	326	87	87	NW 2	Calm 0	10	1	0.016 D. p.
30	30.185	30.119	57.6	55.1	44.0	65.0	374	351	79	81	SW 1	Calm 0	10	10	0.002
Means	29.904	29.922	59.1	54.5	47.8	64.5	379	363	75.6	84.5	2.4	1.7	7.1	7.6	2.940

## DUBLIN.

Height above Mean Sea Level, 51 feet. Long. 6° 15' W. Lat. 53° 20' N.

JUNE 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	54.1	53.9	48.2	60.6	ins.	ins.	89	87	Calm 0	WSW 5	7	10	ins.	ga. Wind Wly. 9.20a. in
2	29.182	29.369	54.1	53.9	48.2	62.6	376	359	89	87	WSW 5	SSW 4	6	10	0.041	in squalls a. and p. [squalls p.
3	29.534	29.606	58.0	56.0	47.8	62.6	303	368	63	82	S 3	W 1	10	9	0.022	in squalls a. and p.
4	29.504	29.560	55.4	50.3	50.2	59.7	349	326	80	90	E 1	SSW 1	9	10	0.125	Squalls in late evening.
5	29.698	29.477	56.5	51.9	47.0	58.3	324	344	70	89	W b. S 6	S b. W 4	8	10	0.040	in squalls a. and p. Very fine and [bright, p.
6	29.664	29.765	55.2	55.2	50.9	62.7	308	352	71	81	S 2	W 3	10	2	0.237	
7	29.687	29.849	55.8	50.9	50.8	58.7	389	279	87	76	W b. S 5	SW 2	3	6	0.010	in squalls, a. Very fine and mild, p.
8	29.997	29.906	56.7	52.7	47.1	61.8	274	388	75	86	S 3	SW 4	10	6	—	[like.
9	29.955	29.820	54.1	56.0	50.0	57.7	314	388	75	86	WSW 4	SW 3	7	5	—	a. and p., but warm and summer
10	29.964	29.991	61.2	56.8	53.3	66.8	379	325	71	70	WSW 4	SW 3	7	5	—	a. Very bright and summer like.
11	29.906	29.994	61.6	56.9	55.0	67.6	409	336	75	72	WSW 5	WSW 3	7	2	—	Heavy shower at Bray, 5.30p.
12	30.061	30.055	59.9	56.4	53.1	63.7	378	405	73	89	WSW 2	Calm 0	9	5	—	∞ a. Brilliant with cool breeze p.
13	30.009	30.031	60.3	55.2	52.2	63.6	382	306	73	70	NE 3	NE 1	4	0	—	∞ p. ∞ late p.
14	30.067	30.078	60.8	55.1	48.1	63.7	359	374	68	86	ENE 2	NE 1	1	0	—	Bright and sunny evening. p.
15	30.115	30.122	59.8	57.4	51.1	66.3	417	381	81	81	E 2	NE 1	1	2	—	Brilliant day.
16	30.167	30.158	64.1	58.0	52.9	66.3	402	377	67	78	ENE 2	NNE 1	2	0	—	Brilliantly fine.
17	30.172	30.129	66.2	60.1	55.2	69.7	399	363	62	70	ENE 2	Calm 0	0	0	—	Very brilliant. Sultry and overcast, p.
18	30.139	30.127	62.8	60.2	55.0	65.3	363	372	64	71	E 1	ENE 1	1	9	—	T 5a. Sultry.
19	30.126	30.095	65.0	65.1	54.8	70.0	413	390	75	83	ESE 2	SE 1	9	8	0.010	Warm with ∞ a. and hot after ga.
20	30.119	30.133	67.1	62.3	59.5	68.8	328	490	79	87	SSE 1	ENE 2	3	4	—	∞ a. and p. Distant T to NW, 1ca.
21	30.080	29.999	67.8	62.2	58.8	71.7	511	462	75	83	E 1	E 1	7	5	0.138	Much cooler than of late. Squalls p.
22	29.908	29.730	63.6	60.8	57.2	69.3	427	442	73	83	WSW 1	NW 5	10	10	0.075	Very dry air a.
23	29.634	29.634	61.8	54.3	54.0	63.6	510	313	93	74	NW 4	NNW 2	5	3	—	Visibility p.
24	29.886	30.073	55.6	53.8	47.0	59.9	252	292	57	71	NW 1	W 2	2	5	—	Showers.
25	30.193	30.198	56.2	54.8	44.0	62.7	260	399	75	78	W b. S 4	W 4	9	7	0.089	
26	30.127	30.088	59.2	59.9	51.6	66.4	375	399	75	78	WSW 4	W 3	10	4	0.044	
27	29.994	30.110	58.3	55.9	55.7	69.3	449	323	92	67	W 3	W 2	7	8	—	
28	30.216	30.248	58.8	58.9	47.9	66.4	332	293	67	63	SW 3	WSW 4	2	9	—	SW current setting in with rapid rise [of temp.
29	30.207	30.132	60.9	61.8	53.1	72.3	372	424	50	77	WSW 4	W 2	9	2	0.091	
30	30.114	30.202	67.0	56.9	56.9	68.7	489	427	74	93	W 3	W 1	6	8	—	Very fine and bright morning.
30	30.246	30.173	61.3	57.9	49.8	65.2	378	371	70	77						
Means	29.952	29.968	60.5	56.9	51.9	65.0	381	363	71.9	78.2	2.7	2.2	6.1	5.3	0.921	



## GLENALMOND.

Height above Mean Sea Level, 529 feet. Long. 3° 40' W. Lat. 56° 27' N.  
JULY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	52.4	51.4	47.2	63.0	ins.	ins.	35.3	32.9	W 3	WSW 4	7	7	ins.	
2	29.964	29.864	52.4	51.4	47.2	63.0	35.3	32.9	89	87	W 3	WSW 4	8	5	—	
3	811	790	54.7	49.0	45.4	60.5	32.7	29.7	75	86	W 3	W 1	8	5	—	
4	764	761	52.3	47.9	43.0	59.0	30.8	28.7	79	87	W 2	W 3	9	5	0.020	
5	823	882	53.7	48.7	42.5	60.3	30.6	28.3	74	82	W 4	W 1	8	5	—	Very fine day.
6	852	29.865	56.3	48.0	40.1	58.7	33.8	32.2	74	96	SE 2	N 1	5	10	1.110	Lovely morning. K about noon.
7	29.892	30.007	53.7	50.0	44.5	61.5	29.5	28.6	71	80	NE 3	NNW 3	6	5	0.020	
8	30.079	175	53.0	50.2	43.3	60.2	29.3	30.1	73	83	NNW 3	NNW 3	5	10	—	
9	30.134	087	54.0	53.3	44.3	61.5	33.6	37.0	80	91	NW 1	W 3	10	10	1.140	
10	29.955	30.018	61.8	57.2	50.0	66.0	46.1	46.2	83	99	W 3	W 2	8	10	—	[steady white clouds aloft, rapid rush of cum. at a low level.]
11	835	29.822	60.0	52.0	52.0	65.5	46.7	31.8	91	82	WSW 7	WSW 3	8	5	0.010	Rough squally morning, blue sky and squally a. [close and warm. K 2
12	865	950	54.9	52.0	49.0	60.5	30.1	30.5	69	79	WNW 5	WNW 3	9	10	—	[4.45 p.m. - 5.30 p.m. (0.72 in. of rain in 45 minutes.) 10 p.m.]
13	890	794	53.9	52.4	48.0	57.5	32.8	35.8	79	93	WSW 3	WSW 2	9	10	—	early a. and till 11 a. Day very rough squally morning. nearly all day.
14	864	585	54.1	54.0	50.0	57.0	38.6	41.8	92	100	WSW 1	SE 1	10	10	1.510	
15	458	397	58.5	56.0	52.6	65.5	44.3	44.9	90	100	? 1	SE 2	9	10	1.410	
16	270	207	56.3	55.0	53.8	58.0	45.4	43.3	100	100	NE 3	ENE 4	10	10	0.920	
17	290	416	54.4	54.8	51.6	60.0	41.2	40.6	97	94	E 5	E 3	10	10	0.010	
18	439	517	57.0	57.0	52.5	64.5	40.3	39.4	86	85	SE 1	NW 4	10	5	0.490	Bright red sunset.
19	671	772	56.4	57.3	53.1	63.5	37.2	40.4	82	86	? 1	? 1	10	10	—	
20	744	615	57.8	50.3	50.0	66.5	41.8	34.9	87	96	SE 2	WSW 1	10	6	0.230	
21	706	820	54.1	47.0	38.5	61.0	28.8	28.6	68	89	W 4	W 1	5	4	0.030	Lovely day.
22	666	676	52.2	57.3	43.5	62.4	38.8	46.1	99	98	SW 1	SSW 1	10	10	0.200	Thick drizzling 9 a. and p.
23	544	526	57.5	55.7	55.5	65.5	40.7	40.0	99	90	Calm 0	Calm 0	10	10	0.060	
24	442	300	59.2	54.0	52.3	63.5	41.8	39.4	84	94	S 1	Calm 0	10	9	0.270	
25	304	455	55.5	51.5	50.5	63.0	35.6	34.4	81	90	SSW 2	SW 2	9	10	0.010	
26	610	724	53.0	53.0	50.0	62.0	36.1	40.0	89	99	SW 3	SW 1	9	10	0.040	
27	746	29.875	55.1	52.1	45.0	64.0	40.0	39.3	90	88	SW 3	W 4	10	3	0.010	
28	956	30.014	57.0	52.7	48.7	60.0	36.2	33.6	77	85	W 2	WSW 3	8	8	0.040	Lovely day, though breezy.
29	986	29.986	53.0	50.4	50.0	61.7	39.7	44.3	99	97	SW 1	SE 2	10	10	—	Dull morning. Day warm, and plea- sant.
30	29.966	30.051	64.7	57.0	55.4	70.0	44.7	37.9	74	82	WNW 3	WNW 3	4	4	—	Lovely day.
31	30.049	30.019	61.0	60.0	53.5	66.3	46.1	45.3	86	88	W 4	SW 2	9	10	1.100	
Means	29.751	29.769	56.0	53.1	48.6	62.3	38.1	36.5	84.3	89.9	2.6	2.0	8.5	8.1	4.840	

## DURHAM.

Height above Mean Sea Level, 335 feet. Long. 1° 35' W. Lat. 54° 46' N.  
JULY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	10 a.m.	10 p.m.	10 a.m.	10 p.m.	Min.	Max.	10 a.m.	10 p.m.	10 a.m.	10 p.m.	10 a.m.	10 p.m.	10 a.m.	10 p.m.	10 a.m.	
1	29.977	29.921	62.6	50.6	48.6	71.6	41.2	34.6	73	94	SSW 0.8	SW 1.4	9	1	—	
2	877	856	59.3	51.3	48.7	67.8	36.9	34.4	73	91	SW 0.8	SSW 1.4	9	7	—	
3	824	853	56.9	45.3	44.9	63.3	32.6	27.7	71	92	SW 2.4	SW 0.3	8	0	0.050	
4	874	908	60.3	44.2	42.1	66.5	35.9	26.1	69	90	WSW 2.0	WSW 0.3	7	0	0.090	
5	843	835	54.5	45.0	39.3	62.7	35.0	29.4	83	98	SSW 0.8	W 0.2	8	3	0.280	K p.
6	29.831	29.993	55.4	45.2	41.8	61.3	32.4	27.8	74	93	NNW 1.2	NW 0.2	6	6	—	
7	30.052	30.130	60.9	46.3	43.7	65.1	35.8	30.9	67	99	NNW 1.4	NW 0.2	7	7	0.468	K p.
8	136	139	59.0	52.3	44.2	66.4	35.4	36.5	71	93	NW 1.2	WSW 1.4	10	10	0.200	
9	30.039	30.065	59.0	58.0	50.9	65.4	40.2	43.6	81	90	WSW 2.2	SW 0.7	10	9	—	
10	29.981	29.906	60.5	58.7	56.6	63.9	46.8	45.9	89	94	SW 4.1	SW 0.9	10	7	—	
11	948	961	61.9	54.0	53.8	68.6	41.2	38.2	75	92	WSW 1.1	Calm 0.0	7	5	—	in squalls a.
12	912	782	59.0	49.8	49.5	68.1	40.4	33.7	81	94	SE 0.2	SW 0.5	10	10	—	
13	697	558	57.2	57.2	47.6	66.9	45.0	45.0	96	96	SSW 2.4	S 1.4	8	10	0.010	
14	459	260	65.8	59.7	56.5	71.1	25.6	48.9	40	96	SSE 1.8	Calm 0.0	7	10	1.061	
15	041	135	57.7	54.1	54.0	64.1	47.4	38.1	99	91	ENE 2.5	SE 2.0	10	10	0.310	
16	250	285	59.7	54.1	42.8	66.4	41.6	41.6	82	99	SE 1.2	ENE 0.8	10	10	0.520	
17	313	561	56.2	54.7	54.1	61.1	44.3	41.1	98	96	NNW 0.9	WNW 2.0	10	10	0.090	
18	699	801	56.6	54.0	53.2	61.9	38.3	36.3	83	87	WNW 1.8	WSW 0.3	10	10	—	
19	747	655	65.4	50.2	50.0	70.9	42.2	31.2	68	86	SSE 0.9	W 2.0	9	3	0.088	
20	707	837	56.3	51.0	44.8	66.8	30.9	35.1	67	94	W 1.7	W 0.8	6	4	—	
21	791	746	57.5	60.7	49.7	66.4	42.2	46.9	89	89	S 0.9	S 3.0	10	9	0.010	
22	618	531	61.4	60.3	57.3	63.5	44.0	40.0	81	94	S 3.3	SSE 2.0	10	10	0.016	
23	445	373	62.3	53.8	53.3	67.0	52.3	40.3	93	97	S 2.0	Calm 0.0	10	10	0.593	K ia.
24	404	568	62.2	53.2	50.2	68.6	39.7	35.2	71	87	SW 2.2	S 1.4	3	2	—	
25	722	814	59.7	53.1	48.9	66.2	37.0	37.9	73	93	SW 1.4	S 0.6	9	4	—	
26	29.782	29.922	70.2	53.8	52.5	73.0	54.5	38.0	73	91	NW 0.8	Calm 0.0	3	4	—	
27	30.023	30.071	60.2	52.8	51.2	64.4	37.5	36.1	72	90	WNW 0.7	W 0.5	9	8	—	
28	028	045	58.3	59.4	51.3	62.1	43.5	49.1	89	97	SW 0.5	W 0.9	10	9	—	
29	046	113	66.9	61.6	59.0	78.1	41.8	49.2	63	89	WSW 2.2	W 2.3	6	0	—	
30	30.140	30.080	68.7	61.3	60.2	79.0	46.4	41.0	66	76	W 2.0	WSW 0.9	3	9	—	
31	29.915	29.815	64.7	53.8	53.8	67.3	49.5	36.6	81	88	WSW 0.8	WNW 1.0	10	6	0.005	
Means	29.780	29.791	60.5	53.5	50.1	67.0	40.6	38.2	77.1	92.1	1.6	1.0	8.2	6.5	3.809	

## HAWES.

Height above Mean Sea Level, 800 feet. Long. 2° 11' W. Lat. 54° 18' N.  
JULY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	°	°	46° 0	63° 9	in.	in.	°/o	°/a	Calm 0	WNW 2	9	0	ins.	D 9a. and 9p.
2	30° 939	29° 981	59° 7	51° 0	49° 5	58° 1	33° 1	32° 9	79	90	WNW 1	WSW 3	10	4	° 040	
3	29° 928	917	55° 8	50° 4	49° 5	58° 1	33° 1	32° 9	79	90	WSW 2	WSW 3	5	8	° 030	D 9p.
4	886	905	56° 7	47° 2	46° 5	58° 3	31° 1	29° 6	67	92	W 2	W 2	2	8	1° 090	
5	927	971	54° 9	47° 0	43° 1	59° 9	29° 8	28° 9	69	90	Calm 0	WSW 1	8	5	° 020	D 9a. K° from 1.20p.
6	897	29° 885	53° 1	48° 0	37° 9	60° 2	31° 7	26° 8	78	80	Calm 0	W 1	7	9	° 080	
7	29° 867	30° 029	52° 1	46° 3	35° 0	59° 0	28° 6	28° 4	73	91	NW 1	W 1	10	10	° 020	T 11.15a. K° from noon.
8	30° 103	188	51° 1	47° 0	41° 8	61° 0	30° 2	27° 5	80	86	Calm 0	W 2	10	10	° 100	
9	186	225	52° 8	50° 9	38° 1	58° 7	29° 7	31° 1	74	84	W 3	WSW 4	10	10	° 230	D 9a. and 9p.
10	147	30° 135	53° 4	55° 1	50° 2	62° 1	41° 9	43° 9	94	95	WSW 3	WSW 4	10	10	° 120	
11	091	29° 984	55° 9	56° 7	55° 1	62° 1	41° 9	43° 9	94	95	W 2	W 2	10	9	—	D 9a. and 9p.
12	30° 017	30° 049	53° 3	51° 1	50° 6	59° 1	31° 9	33° 6	78	89	WSW 1	WSW 2	9	10	—	
13	29° 958	29° 867	56° 9	50° 7	50° 6	59° 0	31° 9	31° 8	74	86	Calm 0	SW 2	10	10	° 050	D 9a. and 9p.
14	742	630	55° 8	57° 0	43° 2	64° 0	36° 1	43° 4	81	93	S 1	E 1	10	10	1° 230	
15	516	312	63° 1	57° 3	54° 5	64° 3	44° 1	46° 7	76	99	E 2	SE 2	10	10	° 720	D 9a. and 9p.
16	038	099	58° 0	52° 4	52° 4	61° 1	48° 2	37° 7	100	96	SE 2	WNW 1	10	10	° 660	
17	236	294	54° 0	51° 9	51° 8	58° 2	38° 8	38° 6	93	100	Calm 0	W 2	10	10	° 120	D 9p.
18	350	590	55° 4	54° 7	50° 4	58° 4	42° 4	38° 4	96	90	W 2	W 2	2	9	0	
19	742	864	55° 3	48° 2	48° 2	59° 0	36° 6	31° 9	84	96	Calm 0	WSW 2	10	10	° 100	
20	798	684	60° 1	55° 0	39° 9	66° 8	36° 2	40° 9	70	94	W 2	WSW 3	5	8	° 020	) 8.30a.
21	803	920	56° 1	52° 0	41° 7	58° 0	30° 8	33° 3	68	85	SW 3	SW 3	10	10	° 090	
22	867	817	52° 1	57° 8	51° 0	60° 0	38° 1	42° 4	98	88	SSW 2	SSW 2	10	10	° 300	
23	677	595	57° 7	58° 9	56° 0	61° 3	42° 8	46° 2	90	94	SSE 2	SW 2	10	10	° 440	
24	482	406	58° 0	54° 7	54° 5	65° 1	47° 9	39° 3	99	92	WSW 1	WSW 3	5	3	° 300	
25	450	611	56° 0	53° 0	50° 0	62° 8	37° 0	34° 8	83	86	WSW 2	WSW 3	10	10	° 030	
26	768	29° 863	55° 0	54° 3	50° 6	60° 3	34° 6	36° 1	80	85	WNW 1	WSW 2	3	3	—	D 9p.
27	29° 839	30° 017	60° 7	54° 4	51° 8	66° 0	36° 1	36° 1	68	85	WNW 2	WSW 3	10	10	° 040	
28	30° 077	112	55° 7	52° 2	51° 0	60° 0	33° 8	35° 1	76	90	W 2	W 2	10	10	° 050	D before a.
29	091	098	53° 1	59° 8	50° 8	60° 1	35° 7	45° 9	88	90	W 3	W 3	10	10	° 010	
30	171	192	59° 2	60° 0	57° 9	61° 2	48° 9	48° 9	93	93	W 2	WNW 2	10	1	—	
31	220	30° 157	60° 1	57° 8	56° 3	68° 0	44° 4	39° 6	86	82	W 1	W 2	10	10	° 010	
31	30° 007	29° 875	58° 0	54° 8	54° 0	60° 8	46° 1	38° 2	95	89	W 1	W 2	10	10	° 010	
Means	29° 836	29° 847	56° 0	55° 1	48° 7	61° 1	37° 2	35° 6	82° 5	90° 4	1° 5	2° 2	9° 0	7° 8	4° 920	



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## KELSTERN.

Height above Mean Sea Level, 388 feet. Long. 0° 7' W. Lat. 53° 24' N.  
JULY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	58.5	51.0	49.0	64.8	ins.	ins.	84	93	NW 1	NW 1	10	1	ins.	
2	29.954	29.984	58.5	51.0	49.0	64.8	4.30	3.13	69	88	SW 2	W 1	6	2	—	
3	930	920	58.1	53.1	48.5	65.7	3.53	3.46	69	85	SW 2	WSW 1	8	10	—	
4	951	943	59.5	51.7	44.0	68.1	3.71	3.36	74	87	SW 1	W 1	7	7	0.04	
5	910	851	59.7	51.8	45.8	65.0	3.65	3.61	72	93	SW 1	SSW 1	5	10	0.03	Squalls p.
6	29.832	29.979	54.6	47.9	45.9	59.7	3.55	3.31	83	100	NNW 1	N 1	9	3	1.80	T during day.
7	30.081	30.153	56.2	46.1	41.5	62.9	3.66	3.07	81	98	NE 1	NE 1	4	1	0.03	T during day.
8	187	246	56.8	50.0	41.1	64.7	3.57	3.34	77	93	NW 1	NW 1	6	7	1.35	
9	204	172	53.4	56.9	47.0	62.7	4.03	4.27	98	92	SW 2	W 2	10	10	0.50	
10	113	049	68.7	60.6	55.2	75.0	5.54	4.43	80	84	SW 2	SSW 1	4	9	0.07	
11	023	30.059	61.1	49.9	49.7	66.9	4.34	3.33	81	93	NW 1	NW 1	9	2	—	
12	30.001	29.880	57.0	56.1	45.0	65.9	4.05	4.15	87	91	SW 1	SW 1	10	9	—	
13	29.757	29.693	62.0	60.8	54.6	67.0	4.47	4.64	81	87	SW 1	WSW 1	8	9	0.32	∞ p.
14	544	350	61.6	59.5	57.0	70.0	4.92	4.94	90	98	S 2	SSE 2	8	10	4.50	
15	055	259	57.5	54.3	54.3	65.1	4.59	3.89	97	92	S 4	S 2	10	4	0.20	
16	206	349	60.9	50.5	53.8	64.6	4.51	4.57	85	100	S 5	S 1	7	10	5.15	T a. p.
17	332	580	61.0	54.8	51.8	63.5	4.91	4.15	92	96	SSW 1	W 2	9	8	0.04	T a. p.
18	753	844	56.4	50.0	50.0	63.7	4.03	3.36	89	94	W 3	Calm	10	2	—	
19	827	698	58.3	61.0	42.6	66.4	3.34	4.94	08	93	SW 1	WSW 1	5	10	0.57	∞ a.
20	829	960	59.1	53.0	45.3	63.4	3.56	3.33	71	82	WNW 3	W 1	4	9	—	
21	935	874	59.8	58.2	46.8	65.4	3.99	4.39	77	90	SW 2	SW 2	2	5	—	
22	763	682	57.6	60.3	53.5	67.7	4.28	4.79	90	92	S 3	SW 3	9	8	—	
23	584	407	61.9	62.0	56.3	66.7	5.07	5.35	93	96	S 5	S 5	10	10	4.20	all day. Squalls p.
24	508	648	60.8	56.3	52.1	66.8	4.19	4.09	79	90	SW 2	WSW 1	5	3	—	
25	824	29.911	62.0	54.7	47.5	65.7	3.79	3.84	69	90	WSW 2	Calm	3	9	1.10	
26	29.805	30.030	58.2	54.9	53.5	70.4	4.39	3.77	90	88	N 1	W 1	9	2	—	
27	30.079	130	58.7	51.0	50.0	65.7	4.22	3.45	86	92	WSW 1	WSW 1	9	3	—	
28	103	105	60.1	60.0	49.5	63.3	4.13	4.87	80	95	W 1	Calm	9	10	—	
29	156	217	65.8	61.9	59.7	78.1	5.64	4.89	89	89	WSW 2	W 2	10	1	—	
30	221	30.155	70.0	63.0	57.2	75.8	5.16	5.26	70	92	W 2	Calm	2	1	—	Very fine and hot.
31	30.003	29.847	67.9	61.1	57.0	75.0	5.29	5.00	78	93	NW 1	NW 1	7	10	0.04	before ga.
Means	29.857	29.871	60.3	55.4	50.0	66.9	4.27	4.08	81.6	91.8	1.9	1.3	7.2	6.3	2.684	

## BUXTON.

Height above Mean Sea Level, 987 feet. Long. 1° 54' W. Lat. 53° 14' N.  
JULY 1877.

1	30.042	30.029	56.9	49.6	49.5	60.9	3.27	3.22	71	91	NW 1	N 1	10	5	—	
2	29.967	29.971	55.9	52.9	47.4	60.4	3.27	2.94	74	74	NW 1	WNW 2	8	6	3.00	
3	938	995	52.9	47.9	42.0	59.1	2.85	3.05	72	92	NW 1	WhyN 4	9	10	0.70	
4	982	962	54.9	48.4	43.1	59.2	3.05	2.58	71	76	NW 2	NW 1	7	6	0.15	
5	902	29.875	52.9	47.8	39.9	54.8	2.85	3.06	72	92	NW 2	NW 1	8	6	1.00	
6	29.867	30.041	51.7	46.9	44.2	56.0	2.88	2.80	76	88	NW 1	NW 1	6	6	3.00	
7	30.128	190	52.1	44.7	44.0	54.7	2.99	2.51	77	85	NW 1	N 1	9	10	3.40	
8	234	266	50.5	50.4	44.5	55.2	3.13	3.27	86	89	N 1	NW 2	10	10	0.95	
9	220	195	52.9	54.9	49.8	61.1	3.62	3.91	91	91	W 4	W 3	10	10	—	
10	136	058	61.5	56.6	53.5	65.9	4.16	3.81	77	82	W 1	W 2	8	10	0.70	
11	054	30.088	55.2	47.8	47.8	59.2	3.39	2.75	78	83	NW 2	NW 1	8	4	—	
12	30.003	29.863	55.8	54.5	44.9	60.0	3.40	3.40	76	79	W 2	W 1	10	10	—	
13	29.749	662	54.6	56.9	50.4	63.9	3.91	4.18	92	90	W 1	SW 2	8	10	0.30	
14	502	302	57.6	55.9	54.5	64.0	4.24	4.18	88	93	SSW 1	S 1	10	10	1.070	
15	053	150	53.9	51.4	50.1	57.9	3.86	3.39	93	89	SW 1	SW 4	10	10	0.870	
16	224	334	54.1	52.8	51.0	57.9	3.91	3.69	93	92	S 1	Calm	10	10	2.00	
17	392	624	54.7	52.7	52.0	57.6	3.99	3.62	93	91	NW 1	NW 5	10	10	3.60	
18	815	852	50.9	44.9	44.9	59.4	3.40	2.74	92	92	NW 3	NW 1	10	4	0.50	
19	804	708	63.8	54.9	41.0	63.8	3.45	4.01	58	93	W 1	NW 4	8	10	2.00	
20	834	992	51.7	49.9	46.5	58.9	1.84	2.89	43	82	NW 3	W 2	8	7	—	
21	908	857	56.9	57.8	47.0	64.9	3.65	3.93	79	82	W 4	SW 1	5	10	0.25	
22	727	622	55.9	59.3	53.6	62.1	4.06	4.31	91	86	SW 2	SW 2	10	10	0.30	
23	522	410	59.3	55.5	55.2	63.9	4.47	3.94	89	89	SW 2	W 4	10	10	3.80	
24	490	610	56.9	53.9	48.9	64.0	3.65	3.60	79	86	W 2	W 1	8	8	—	
25	838	29.885	54.9	54.5	49.2	61.9	3.09	3.33	72	79	W 3	WSW 2	7	10	0.50	
26	29.849	30.072	57.4	54.9	52.0	64.1	3.97	3.35	84	78	NW 1	NW 2	9	8	0.10	
27	30.115	155	56.4	53.4	52.7	60.5	3.46	3.16	76	77	NW 3	NW 1	8	10	0.50	
28	122	164	54.9	59.5	50.7	60.0	3.24	4.85	75	96	WNW 1	NW 2	10	10	1.70	
29	184	254	65.7	62.1	55.8	71.0	5.16	4.64	83	83	NW 3	WNW 2	7	9	—	
30	246	30.159	63.6	58.9	56.6	71.7	4.51	4.37	77	89	NW 3	Calm	7	1	—	
31	30.020	29.852	61.3	58.4	53.3	66.9	4.44	4.43	82	90	Calm	NW 2	7	10	0.50	
Means	29.867	29.877	56.1	53.2	48.9	61.3	3.59	3.55	79.5	86.4	1.8	1.9	8.5	8.4	5.735	

## HILLINGTON, NORFOLK.

Height above Mean Sea Level, 88 feet. Long. 0° 33' E. Lat. 52° 48' N.  
JULY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	59.2	54.5	54.0	61.5	ins.	ins.	84	99	SE 0.5	S 1	10	5	ins.	[2.45p. K 4.25p. 0.40p. Distant T T in NW, 7a. T 11.5a. K 1p.-3p. T 2p. and 2.40 p. Very fine and hot. before ga. Distant T 6.30p. Blustering morning. Hot and close. Very fine and hot. Very distant K 8.30p.
2	30.016	29.974	60.0	56.8	44.1	69.4	4.96	3.99	99	94	SW 1	SW 5	10	7	—	
3	29.966	950	62.0	55.8	45.8	67.0	4.39	3.57	86	77	SW 3	SW 2	7	10	0.40	
4	942	923	60.9	55.0	45.9	68.6	4.82	4.30	91	99	W 3	SW 0.5	2	10	1.72	
5	961	900	60.9	55.0	45.9	68.6	4.82	4.30	91	99	W 2	SW 1	6	10	0.94	
6	910	843	56.7	51.4	45.7	66.7	3.51	3.64	76	96	SW 1	NW 1	10	6	1.00	
7	29.821	29.950	52.8	49.3	47.2	62.2	3.71	3.33	93	95	WNW 2	NW 1	10	1	0.24	
8	30.069	30.124	55.4	46.9	41.4	64.4	3.65	2.93	84	80	NW 2	NW 1	2	10	0.72	
9	172	209	57.9	55.0	37.7	63.5	3.45	3.44	72	87	WSW 3	W 1	10	10	0.70	
10	224	183	56.5	57.7	44.3	64.6	4.21	4.16	92	77	WSW 4	WSW 2	5	10	—	
11	150	065	66.2	63.2	55.9	77.4	4.83	4.43	76	90	WNW 1	WNW 1	10	9	—	
12	032	30.025	61.4	55.1	53.5	70.7	4.70	3.89	87	89	W 1	N 2	10	9	—	
13	30.001	29.836	63.5	57.5	51.5	70.6	4.73	4.12	73	80	SW 1	SW 1	8	7	0.75	
14	29.758	690	66.7	59.8	51.3	72.4	4.73	4.12	73	94	SSW 2	S 3	10	10	4.25	
15	560	356	64.3	61.9	57.4	73.8	5.41	5.18	90	91	SW 5	SW 3	10	3	0.09	
16	233	292	60.5	57.2	57.0	70.1	4.67	4.25	89	91	S 4	S 2	3	10	3.21	
17	320	290	64.5	58.5	52.8	67.6	4.33	4.77	72	98	WSW 4	WNW 3	10	10	0.20	
18	364	598	58.1	57.8	53.3	66.6	4.56	4.18	93	99	W 4	WNW 1	10	7	—	
19	772	838	56.7	52.7	52.7	64.7	3.82	3.06	85	90	SW 4	SW 1	10	5	—	
20	809	714	63.0	61.9	41.3	68.5	4.03	4.98	70	70	SW 5	SW 2	4	2	—	
21	827	942	58.4	52.6	51.2	67.2	3.33	3.16	68	83	SW 5	SW 2	2	9	—	
22	948	808	63.0	59.6	44.8	70.1	3.81	4.22	66	90	SW 4	SW 1	10	5	—	
23	698	707	63.4	59.8	53.3	69.3	4.57	4.59	79	90	SW 4	SW 4	10	10	1.35	
24	636	515	66.0	63.6	56.2	73.2	5.10	5.31	81	85	SW 4	SW 1	3	8	—	
25	525	662	63.0	59.4	54.0	70.7	4.89	4.25	85	82	W 4	SW 1	4	10	—	
26	823	29.917	64.8	58.9	49.0	69.9	4.21	4.03	69	89	NE 1	NW 2	9	6	3.50	
27	29.697	30.081	59.7	56.2	54.3	70.1	3.51	4.01	69	85	NW 2	NW 3	5	9	—	
28	30.052	107	62.7	55.4	53.0	69.1	4.31	3.70	77	94	NW 3	NW 1	9	10	—	
29	111	089	62.8	62.6	50.0	64.6	4.16	5.35	75	85	NW 4	NW 2	5	3	—	
30	162	192	72.4	60.7	60.1	80.5	5.92	5.50	75	95	NW 4	W 1	3	1	—	
31	30.238	30.151	69.0	63.2	54.2	79.5	5.24	5.50	74	90	W 3	SW 2	4	10	2.17	
32	29.997	29.806	69.9	64.4	55.5	81.6	5.28	5.39	72						2.454	
Means	29.804	29.862	62.0	57.8	50.6	69.6	4.38	4.27	79.0	88.8	2.9	1.8	7.1	7.6	2.454	



## OSCOTT.

Height above Mean Sea Level, 460 feet. Long. 1° 51' W. Lat. 52° 33' N.

JULY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	58.2	58.1	58.0	58.1	ins.	ins.	76	81	NNW 2	W 2	10	1	ins.	Fine day.
2	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 3	WSW 2-3	9	9	—	
3	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 4	SW 2	9	9	—	
4	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	T 5.45 p. T 0.15, and Sp. < 10p. T at intervals, 4p.—7.15p.
5	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	
6	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	
7	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	Fine day.
8	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	
9	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	
10	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	Fine day.
11	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	
12	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	
13	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	Fine day.
14	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	
15	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	
16	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	Fine day.
17	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	
18	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	
19	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	Fine day.
20	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	
21	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	
22	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	Fine day.
23	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	
24	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	
25	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	Fine day.
26	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	
27	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	
28	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	Fine day.
29	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	
30	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	
31	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	Fine day.
Means	29.975	29.999	58.2	58.1	58.0	58.1	ins.	ins.	76	81	WSW 2	N 0-1	9	8	0.010	

## CHURCHSTOKE.

Height above Mean Sea Level, 548 feet. Long. 3° 5' W. Lat. 52° 31' N.

JULY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	30.091	30.043	55.7	54.0	51.1	63.6	349	339	79	81	NNW 0.5	Calm 0	10	10	—	Distant K to N. Sunny and pleasant.
2	29.997	30.000	60.0	54.1	51.1	61.3	366	335	71	79	WSW 1	SW 1	7	4	0.058	
3	29.981	29.966	56.2	49.8	49.8	59.9	368	317	68	88	SW 1	Calm 0	4	8	0.020	
4	29.942	29.962	57.4	48.1	42.4	62.0	312	285	66	85	SW 2	Calm 0	4	7	0.020	K K K
5	29.999	29.992	55.4	47.2	41.1	61.0	321	318	73	98	SW 1	Calm 0	3	10	0.360	
6	29.906	30.086	49.0	49.1	41.6	59.9	302	313	87	90	W 3	W 1	10	7	0.185	
7	30.170	29.969	54.9	49.4	40.2	59.7	315	304	73	86	WNW 3	WSW 1	4	8	0.137	p.
8	29.984	29.939	54.8	52.0	43.2	60.0	339	358	79	92	W 2	WSW 1	2	8	0.015	
9	29.916	29.922	55.9	57.0	51.1	61.4	406	422	91	91	SW 2	W 2	6	10	—	
10	29.982	29.907	55.0	58.0	50.0	68.4	456	475	79	99	W 4	S 1	3	10	—	p.
11	30.100	30.008	56.9	51.1	50.9	62.3	407	349	88	93	W 1	SW 1	6	2	—	
12	29.943	29.911	57.7	55.9	46.0	61.3	397	391	83	88	S 1	Calm 0	7	10	—	
13	29.974	29.969	56.0	58.6	48.1	62.7	430	451	83	92	SSW 4	SW 1	4	10	0.180	p.
14	29.984	29.951	56.2	55.1	44.2	64.2	494	453	98	100	SSW 1	WNW 6	10	10	1.560	
15	29.940	29.962	54.9	54.4	53.2	56.9	413	388	96	92	W 5	WSW 4	8	8	0.220	
16	29.915	29.969	55.6	55.6	53.5	62.9	464	425	100	96	SSW 2	SW 1	9	7	0.040	Squalls p.
17	29.908	29.906	56.4	55.7	50.2	61.4	437	401	91	97	W 4	W 3	8	8	0.010	
18	29.950	29.976	56.1	56.2	54.1	64.9	482	443	90	98	W 2	SW 1	6	8	0.015	
19	29.974	29.948	55.1	51.9	43.0	61.1	382	344	88	89	WSW 3	SW 1	4	5	—	p.
20	29.955	29.985	56.2	58.2	50.3	62.7	462	454	89	93	W 7	SSW 1	5	8	—	
21	29.909	29.969	56.6	57.1	54.3	64.3	507	487	98	95	SW 5	S 1	9	10	0.235	
22	29.946	29.963	55.0	54.9	54.4	64.4	516	493	96	93	S 6	S 1	10	8	0.250	Cold and squally.
23	29.941	29.901	58.0	54.9	51.9	62.3	407	416	84	97	SW 3	SW 3	6	8	0.100	
24	29.901	29.916	56.1	56.4	53.0	65.5	480	371	89	82	NW 1	SW 2	7	4	0.010	
25	29.916	29.943	54.7	54.3	55.2	64.7	447	399	86	93	NW 2	Calm 0	4	7	0.010	p.
26	29.913	29.938	56.3	53.0	53.0	65.1	473	545	90	97	W 3	W 1	8	6	—	
27	29.974	29.974	54.5	61.2	60.1	70.1	548	501	91	94	S 2	Calm 0	2	1	—	
28	29.974	29.974	54.5	61.2	60.1	70.1	548	501	91	94	S 2	Calm 0	2	1	—	p.
29	29.974	29.974	54.5	61.2	60.1	70.1	548	501	91	94	S 2	Calm 0	2	1	—	
30	29.974	29.974	54.5	61.2	60.1	70.1	548	501	91	94	S 2	Calm 0	2	1	—	
31	29.974	29.974	54.5	61.2	60.1	70.1	548	501	91	94	S 2	Calm 0	2	1	—	p.
Means	29.907	29.916	58.5	54.9	50.7	63.3	422	402	85.5	92.1	2.6	1.2	5.9	7.1	3.665	

## HEREFORD.

Height above Mean Sea Level, 274 feet. Long. 2° 45' W. Lat. 52° 5' N.

JULY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
	ins.	ins.					in.	in.	%	%						ins.
1	30.042	30.030	58.2	53.7	53.5	63.1	.355	.318	73	77	Calm 0	Calm 0	10	2		.006
2	29.996	30.001	60.9	56.3	50.5	67.1	.379	.339	71	74	WSW 1	Calm 0	8	4		—
3	.993	29.955	61.2	51.7	49.9	63.1	.327	.331	60	87	WSW 2	WSW 1	4	6		.560
4	.988	.970	58.7	51.7	43.3	64.6	.327	.306	66	80	W 2	W 1	3	7		—
5	.951	29.889	58.5	48.9	39.3	63.7	.324	.322	67	93	W 1	Calm 0	3	9		.120
6	29.897	30.055	55.1	49.5	39.3	60.8	.304	.308	70	88	SW 1	W 1	9	1		.150
7	30.055	.250	57.0	50.1	44.6	60.6	.283	.299	61	83	W 2	Calm 0	8	5		.110
8	.257	.293	56.7	54.2	40.7	62.2	.308	.315	67	74	W 2	Calm 0	9	8		—
9	.303	.269	57.7	58.7	51.1	64.2	.386	.391	81	79	SW 2	W 1	9	5		—
10	.461	.111	66.2	60.0	57.1	70.2	.399	.379	62	73	SW 2	WSW 2	3	10		.020
11	.078	30.080	61.1	54.5	54.5	64.9	.381	.328	71	77	W 1	Calm 0	8	0		—
12	30.003	29.859	59.3	54.1	41.5	64.6	.343	.353	67	83	Calm 0	Calm 0	10	2		—
13	29.756	.661	62.1	59.5	51.3	65.5	.370	.473	67	94	SSW 2	Calm 0	8	10		.270
14	.469	.222	64.1	58.1	55.9	65.0	.509	.465	85	96	S 1	Calm 0	7	10		.890
15	.163	.215	58.6	55.9	54.9	62.0	.407	.360	83	81	WNW 3	SW 2	10	10		.060
16	.190	.329	57.0	56.1	51.5	66.0	.451	.433	97	96	Calm 0	Calm 0	10	9		.205
17	.481	.789	58.5	55.7	54.9	59.8	.391	.343	80	77	W 2	SW 1	8	9		—
18	.888	.880	56.9	52.7	50.7	60.0	.309	.412	67	88	W 2	Calm 0	7	10		—
19	.773	29.781	60.3	58.7	54.9	67.7	.487	.444	93	91	Calm 0	W 1	8	8		.020
20	.958	30.089	56.1	53.7	44.7	63.3	.330	.328	73	79	W 2	W 1	4	2		—
21	.973	29.878	59.7	59.4	48.8	67.4	.273	.419	53	84	W 1	ESE 0.5	8	10		—
22	.730	.648	60.7	60.0	56.2	68.5	.434	.422	83	92	SSW 2	SSW 2	10	10		.030
23	.498	.414	60.5	54.5	54.3	64.2	.480	.391	93	92	S 3	Calm 0	10	10		.175
24	.527	.683	59.5	54.1	49.0	68.3	.389	.343	78	81	WSW 1	Calm 0	8	1		—
25	.870	29.891	61.3	60.7	50.9	66.2	.330	.309	61	87	W 2	S 1	7	10		.285
26	29.871	30.094	64.3	57.0	54.1	67.8	.422	.394	81	85	N 1	Calm 0	8	3		—
27	30.127	.182	62.1	55.0	54.5	68.6	.356	.357	64	83	W 2	Calm 0	6	5		.005
28	.133	.177	61.7	63.0	51.0	69.1	.451	.507	83	89	WSW 1	Calm 0	10	0		—
29	.258	.286	60.7	62.5	60.1	78.1	.535	.483	73	86	W 1	WNW 1	5	0		—
30	.277	30.157	66.3	65.0	55.5	77.6	.429	.566	82	92	Calm 0	Calm 0	6	0		—
31	30.031	29.866	60.8	61.8	55.3	72.2	.456	.469	85	85	Calm 0	Calm 0	10	6		—
Means	29.893	29.903	60.2	56.4	50.8	66.0	.388	.389	74.1	84.7	1.4	0.5	7.5	5.9	2.906	T to SW 2p.—3p. D 9p.



## CARMARTHEN.

Height above Mean Sea Level, 188 feet. Long. 4° 18' W. Lat. 51° 52' N.

JULY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.	
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.		
1	ins.	ins.	58.8	54.3	53.1	55.8	in.	in.	95	95	Calm	o	10	2	ins.		
2	30.069	30.043	58.8	54.3	53.1	55.8	in.	in.	95	95	Calm	o	10	2	ins.		
3	30.018	30.004	61.2	55.7	51.9	67.0	3.86	4.15	72	93	W	1	9	3	0.050		
4	29.982	29.952	55.0	54.8	51.2	61.9	4.21	4.19	97	98	Calm	o	10	9	0.260		
5	30.004	29.989	62.1	51.6	45.0	62.4	4.03	3.33	72	87	W	1	10	9	0.260		
6	29.934	29.870	58.2	50.3	41.4	62.2	3.77	3.38	78	93	Calm	o	7	1	0.070		
7	29.915	30.090	55.5	50.5	39.8	62.0	3.65	3.28	83	90	NW	2	9	0	—		
8	30.209	2.262	59.6	49.6	45.5	63.0	3.73	3.22	73	91	N	1	4	5	—		
9	3.280	3.321	57.7	53.0	46.2	64.5	3.71	3.66	79	91	Calm	o	7	8	—		
10	3.318	2.288	61.8	58.1	51.2	65.2	4.41	4.56	80	93	W	2	8	10	—		
11	2.214	1.123	62.8	58.2	57.6	68.0	4.98	4.69	87	97	SW	2	9	10	1.110		
12	30.101	30.091	59.6	55.7	55.4	64.8	4.06	4.09	79	92	NW	1	9	10	—		
13	29.996	29.868	60.6	56.7	54.0	63.5	4.41	4.10	84	89	SW	1	10	10	—		
14	7.737	6.660	61.6	58.1	53.4	64.4	4.73	4.77	86	98	SW	2	10	16	0.850		
15	4.450	2.276	61.6	55.5	55.0	65.7	5.31	4.37	97	100	Calm	o	10	10	0.530		
16	2.239	1.189	56.4	55.5	54.5	60.7	4.10	4.31	90	97	W	3	10	10	0.440		
17	3.852	3.851	59.1	56.7	54.4	65.2	4.72	4.36	94	94	W	1	10	10	0.270		
18	5.824	5.824	54.4	56.5	53.6	64.0	3.91	3.89	93	85	W	4	10	10	0.270		
19	0.112	0.861	57.9	57.1	47.8	61.2	3.84	4.57	80	98	W	3	9	10	0.030		
20	8.27	29.829	61.6	55.9	55.5	63.5	5.03	4.27	92	95	SW	2	10	10	0.020		
21	9.666	30.026	58.8	52.6	46.0	63.5	3.74	3.82	76	97	W	2	10	10	—		
22	0.958	29.846	58.6	58.4	52.2	63.4	4.89	4.82	99	99	SW	3	10	10	1.320		
23	0.683	5.965	59.6	59.6	56.8	63.0	4.04	5.11	97	100	SW	2	10	10	1.320		
24	3.362	4.418	59.8	56.5	56.1	63.8	5.14	4.47	100	97	S	4	10	6	0.200		
25	5.529	6.49	61.8	57.9	53.6	66.5	4.77	4.53	87	94	SW	3	10	4	8	—	
26	8.72	29.847	61.2	56.9	50.3	65.0	4.53	4.64	84	100	W	2	10	6	0.610		
27	29.939	30.107	59.6	56.5	55.2	69.0	4.79	4.57	94	100	NW	2	10	5	7	—	
28	30.169	2.213	62.9	54.3	54.3	67.2	4.41	4.10	78	97	NW	1	10	5	0	—	
29	1.773	2.228	59.9	62.3	52.2	72.6	5.07	5.62	99	100	SW	1	10	2	—		
30	2.285	3.318	66.4	58.5	58.5	71.8	5.98	4.91	93	100	W	1	10	8	0.010		
31	3.307	30.175	60.6	56.9	56.4	71.4	5.05	4.64	95	100	SW	1	10	10	0.020	after sp.	
	30.041	29.891	62.3	59.3	54.2	71.8	5.33	4.89	95	97	SW	1	10	10	—		
Means	29.913	29.911	59.9	55.9	52.0	65.3	4.49	4.30	87.1	95.4	1.6	1.2	8.3	7.1	4.920		

## MARLBOROUGH, WILTS.

Height above Mean Sea Level, 471 feet. Long. 1° 43' W. Lat. 51° 25' N.

JULY 1877.

1	30.061	30.050	56.8	54.2	53.9	64.7	3.94	3.53	85	84	NW	0.1	Calm	o	10	6	0.010	
2	0.026	0.045	60.6	53.4	47.0	69.4	4.07	3.28	78	80	W	0.3	W	0.6	10	0	0.010	
3	0.040	30.003	60.9	55.7	48.3	67.6	3.52	3.82	66	87	W	0.1	W	0.3	3	9	0.275	
4	30.010	29.998	58.6	51.8	51.4	68.4	3.13	2.78	63	73	Calm	o	SW	0.1	5	1	—	
5	29.972	29.900	60.4	50.7	42.8	66.7	3.18	3.42	60	92	W	0.1	Calm	o	6	3	0.293	
6	29.891	30.051	56.9	49.9	42.7	63.7	3.34	3.04	72	85	SW	0.1	Calm	o	8	0	0.023	
7	30.162	2.232	59.6	48.7	41.4	63.6	3.23	2.85	64	83	W	0.1	Calm	o	6	0	0.040	
8	2.267	3.314	61.1	53.5	42.0	65.0	3.45	3.44	64	84	W	0.1	Calm	o	5	2	0.026	
9	3.341	3.305	57.6	56.2	45.9	65.4	3.89	3.84	82	85	W	0.1	W	0.6	10	10	0.012	
10	2.248	1.172	63.0	57.8	45.6	72.7	4.39	4.01	77	83	SW	0.6	Calm	o	10	5	—	
11	1.109	30.078	61.1	55.7	52.1	70.2	4.57	3.71	85	84	SW	0.6	Calm	o	10	7	—	
12	30.025	29.883	65.8	55.7	45.0	71.7	4.04	3.64	64	82	Calm	o	Calm	o	5	1	—	
13	29.807	7.740	64.4	58.6	47.5	69.5	4.22	4.32	70	98	Calm	o	SW	0.6	9	10	1.115	
14	5.551	2.215	61.6	59.6	57.9	65.8	5.20	5.11	95	100	S	0.6	SE	0.1	10	10	1.954	
15	2.250	3.317	57.5	56.4	54.1	64.7	4.30	4.31	91	95	SW	1.2	SW	0.6	10	6	0.458	
16	2.289	3.370	55.6	57.5	53.6	64.5	4.30	4.56	97	96	SW	0.6	SW	0.6	10	10	0.260	
17	5.526	7.766	55.8	55.3	54.5	59.3	4.33	3.86	97	89	SW	1.2	NW	0.6	10	7	0.058	
18	0.903	8.890	58.9	56.5	50.0	64.7	4.53	4.44	92	97	W	0.4	W	0.2	10	10	0.019	
19	8.866	29.833	58.7	58.6	54.0	68.1	4.53	4.27	92	87	SW	0.1	SW	0.1	10	10	0.019	
20	29.970	30.066	59.9	51.3	51.1	64.6	4.67	3.29	57	87	NW	0.3	W	0.3	3	8	—	
21	30.035	29.959	62.5	56.3	48.0	64.7	3.56	3.85	63	85	SW	0.6	SW	0.3	3	7	—	
22	29.805	7.747	62.9	58.6	52.8	65.3	4.41	4.61	78	94	SW	0.3	SW	0.1	10	10	0.042	
23	6.611	4.772	60.5	59.9	58.3	64.9	4.96	5.00	95	97	S	0.6	SW	0.6	10	10	1.047	
24	5.597	7.736	61.1	56.1	50.0	65.9	4.21	4.09	78	90	SW	0.6	Calm	o	8	10	0.025	
25	9.928	29.980	58.5	55.9	50.6	66.7	3.81	4.09	78	92	W	0.3	W	0.2	10	10	0.315	
26	29.833	30.141	60.9	56.8	54.0	71.7	4.73	4.19	90	90	W	0.6	W	0.3	10	2	—	
27	30.163	1.197	62.2	56.7	51.8	70.7	4.19	3.65	75	79	W	0.1	W	0.1	9	2	—	
28	1.193	2.204	59.4	61.6	48.6	66.6	4.43	5.28	88	96	Calm	o	Calm	o	10	10	—	
29	2.282	3.323	70.3	59.3	58.2	76.7	5.56	4.69	74	93	Calm	o	W	0.1	0	5	—	
30	3.325	30.212	60.5	66.1	55.2	79.7	4.85	5.41	93	84	W	0.2	Calm	o	10	0	—	
31	30.079	29.841	67.3	66.5	55.4	82.5	4.96	5.43	74	84	Calm	o	NW	0.1	5	10	0.030	before ga.
Means	29.941	29.937	60.7	56.5	50.4	67.9	4.15	4.07	78.6	88.2	0.3	0.2	7.9	6.2	5.031			

## STRATHFIELD TURGISS.

Height above Mean Sea Level, 195 feet. Long. 1° 0' W. Lat. 51° 20' N.

JULY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.		
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.			
1	ins.	ins.	57.7	56.6	56.2	66.5	in.	in.	95	95	SW	1	Calm	0	10	3	ins.	
2	30.048	30.049	57.7	56.6	56.2	66.5	.449	.416	94	90	SW	1	Calm	0	10	3	.123	
3	.022	.028	64.1	56.8	49.3	69.3	.381	.330	64	72	W	1	SW	1	10	0	—	
4	30.034	30.005	62.4	56.5	45.6	67.9	.365	.375	65	82	W	2	W	1	7	10	.047	a. K <sup>2</sup> Δ p.
5	29.991	29.988	66.5	55.3	52.2	69.8	.394	.340	61	78	W	1	SW	1	6	10	—	T before ga.
6	.981	29.898	59.0	48.7	43.7	68.7	.308	.331	61	96	W	1	W	1	5	3	.386	K p.
7	29.892	30.038	58.9	48.8	44.3	64.5	.308	.319	62	93	NW	1	NW	1	6	1	—	T a.
8	30.146	.206	56.6	48.6	42.0	66.5	.295	.309	65	91	NW	1	Calm	0	4	0	.040	T Δ a. T p.
9	.262	.296	58.8	54.2	39.3	64.2	.305	.358	61	85	W	1	Calm	0	8	10	—	
10	.330	.299	60.0	57.3	44.0	67.1	.416	.356	81	76	W	1	W	1	10	10	—	
11	.255	.161	64.4	61.7	51.8	75.4	.413	.454	68	83	W	1	W	1	5	10	—	
12	30.106	30.079	64.3	56.5	49.6	72.3	.434	.373	73	82	W	1	Calm	0	10	0	—	
13	29.926	29.876	64.0	59.5	45.0	74.2	.365	.389	61	77	W	1	SW	1	0	3	—	
14	.808	.768	65.1	60.3	45.4	71.8	.361	.415	58	79	W	1	SW	2	10	10	.042	
15	.575	.243	62.4	60.2	57.9	65.6	.482	.494	86	95	SW	1	SE	2	10	10	.720	
16	.244	.346	60.0	56.6	54.2	65.4	.433	.416	84	90	SW	2	SW	1	10	8	.313	
17	.340	.369	55.8	58.7	54.1	64.4	.415	.462	93	94	SW	1	SW	1	10	10	.140	
18	.505	.734	59.0	55.3	54.3	61.6	.404	.377	81	86	W	2	W	1	10	3	—	
19	.892	.892	60.1	57.0	49.5	66.4	.331	.419	64	90	W	2	Calm	0	2	10	—	
20	.869	29.824	62.5	62.5	54.1	69.2	.457	.467	82	83	W	1	W	1	10	10	—	
21	29.956	30.047	60.2	52.5	52.1	64.8	.302	.299	58	76	NW	2	SW	1	1	2	—	a.
22	30.045	29.966	62.0	55.3	44.4	68.9	.348	.371	62	85	W	2	SW	1	6	10	—	
23	29.822	.768	64.2	59.0	51.1	67.8	.409	.454	68	92	SW	1	SW	1	10	8	.035	
24	.660	.522	64.3	58.8	58.4	64.7	.477	.464	80	94	S	1	S	1	10	10	.037	
25	.598	.727	63.7	57.5	50.6	67.7	.397	.399	68	84	W	1	W	1	4	2	—	
26	.913	29.986	61.7	58.2	51.0	68.5	.374	.399	69	82	W	2	SW	1	3	10	.116	
27	29.809	30.113	63.5	58.4	55.0	73.4	.475	.407	82	83	W	3	W	1	10	0	—	
28	30.154	.165	65.8	60.3	49.0	72.4	.449	.367	71	71	W	1	W	1	7	8	—	
29	.197	.179	59.9	63.0	47.6	66.7	.430	.507	84	89	W	1	W	1	10	0	.044	
30	.274	.301	71.5	63.4	57.1	79.1	.543	.485	70	84	W	1	W	1	0	0	—	
31	.315	30.217	64.2	65.0	51.0	82.1	.487	.543	81	88	W	1	W	1	5	3	—	
32	30.051	29.842	71.6	68.1	51.3	83.2	.586	.611	76	88	SW	2	SW	1	4	5	—	
Means	29.936	29.933	62.4	57.8	50.4	69.4	.406	.410	72.0	85.1	1.3		0.9	6.9	5.8	2.643		



## HASTINGS.

Height above Mean Sea Level, 172 feet. Long. 0° 38' E. Lat. 50° 52' N.  
JULY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.	
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.		
1	ins.	ins.	63°	55°	55°	66°	ins.	ins.	74	88	SW	N	10	10	ins.	K 7-45 a. ▲ K p. K <sup>2</sup> in afternoon.  2 in past night.  Sea at times p. a. Very distant < p.	
2	30°016	30°032	63°	55°	53°	68°	436	389	74	88	NW	WSW	10	5	—		
3	049	30°041	59°	58°	47°	64°	413	422	81	87	SW	WSW	9	10	155		
4	30°028	29°999	55°	56°	53°	64°	431	362	96	80	SW	W	10	1	240		
5	29°995	29°912	59°	56°	49°	62°	325	370	64	80	SW	SSW	4	5	030		
6	29°885	30°024	60°	49°	49°	63°	315	333	61	94	WNW	W	1	3	320		
7	30°128	168	57°	55°	45°	64°	309	306	66	71	NW	NNW	2	5	020		
8	248	294	57°	53°	45°	65°	298	360	63	87	NW	W	1	3	010		
9	337	304	59°	56°	49°	63°	370	418	73	91	SW	WSW	4	10	—		
10	248	182	62°	57°	51°	64°	441	433	77	92	SW	WSW	4	8	10		
11	120	30°068	62°	59°	55°	66°	457	464	82	93	SW	W	1	1	—		
12	30°029	29°870	63°	58°	53°	67°	436	407	75	83	SW	S	1	1	7		
13	29°813	813	62°	58°	54°	66°	453	419	80	85	SW	WSW	1	10	200		
14	653	315	60°	60°	58°	64°	505	505	95	97	SW	SE	5	10	570		
15	312	408	60°	58°	56°	62°	436	409	82	85	SW	WSW	4-5	10	0		
16	432	428	60°	58°	56°	61°	407	461	89	94	SSW	SW	6	10	0		
17	540	743	59°	55°	55°	61°	418	374	83	84	WSW	W	5	10	005		
18	908	908	60°	55°	52°	63°	353	431	68	96	W	SW	1	8	10		
19	878	29°834	62°	59°	55°	64°	456	487	82	97	SW	WSW-SW	6	10	0		
20	29°939	30°068	60°	53°	53°	66°	386	54	94	WNW	W	1	1	1	—		
21	30°069	30°011	60°	56°	47°	63°	386	413	73	90	SW	S	1	2	0		—
22	29°884	29°826	61°	60°	53°	65°	461	477	84	92	SW	SSW-S	2	10	1		—
23	744	596	64°	62°	58°	68°	501	539	82	96	SSW	SSW	2	9	10		235
24	621	29°705	62°	57°	56°	65°	409	416	72	87	WSW	WSW	3	9	2		—
25	931	30°031	63°	59°	52°	65°	384	422	66	84	WSW	SW	5	1	10		355
26	29°810	078	61°	62°	55°	70°	518	397	95	69	WSW	NW	4	10	1		010
27	30°161	138	62°	59°	51°	67°	434	467	79	94	SSW	WNW	1	5	1		—
28	199	124	61°	61°	53°	64°	393	529	72	98	W	W	1	10	5		—
29	264	280	60°	68°	59°	70°	560	467	77	68	W	SW	0-1	1	0		—
30	302	30°235	69°	59°	56°	72°	554	498	78	98	SW	S	0-1	0	10		—
31	30°100	29°835	68°	63°	54°	75°	550	562	79	90	SSW	Calm	0	0	5		045
Means	29°957	29°947	61°	58°	53°	65°	424	430	76°	88°	3°	2°	6°	5°	2°	565	

## DARTMOOR.

Height above Mean Sea Level, 1,372 feet. Long. 3° 59' W. Lat. 50° 33' N.  
JULY 1877.

1	30°154	30°179	53°	49°	49°	58°	309	321	76	91	NW 3	NW 2	10	0	—	
2	110	177	55°	49°	47°	62°	321	321	86	91	NW 1	NW 2	8	5	040	
3	141	134	54°	51°	49°	60°	365	348	85	93	W 4	W 3	10	10	060	
4	103	108	55°	47°	46°	58°	308	277	71	86	W 2	W 1	5	5	—	
5	037	015	55°	46°	43°	56°	284	262	66	85	W 1	W 1	6	5	070	
6	010	195	52°	46°	42°	54°	297	271	76	86	NW 2	NW 1	7	3	020	
7	274	374	53°	46°	43°	56°	292	273	71	87	NE 1	NE 1	7	0	—	
8	399	470	54°	48°	43°	58°	288	266	69	79	NW 1	NW 2	7	0	—	
9	453	432	55°	51°	46°	59°	361	355	83	94	NW 1	W 1	8	10	—	
10	339	275	55°	51°	49°	61°	382	348	87	93	W 1	W 1	9	5	—	
11	201	30°218	55°	46°	45°	62°	433	294	100	93	SW 3	Calm 0	10	0	—	
12	30°085	29°989	57°	50°	45°	64°	334	324	71	90	Calm 0	NW 1	9	3	—	
13	29°905	812	47°	56°	47°	57°	247	454	75	100	W 1	SW 2	10	10	1°100	
14	607	381	55°	51°	50°	56°	441	381	100	100	SW 1	NW 5	10	10	1°580	
15	550	451	51°	52°	49°	57°	381	369	100	95	NW 2	SW 4	10	10	1°350	
16	370	547	53°	53°	50°	55°	407	404	100	98	SW 3	NW 6	10	10	1°140	
17	29°754	956	49°	50°	48°	55°	344	340	98	94	NW 5	NW 4	10	10	030	
18	30°021	961	49°	54°	45°	55°	325	425	92	100	W 4	Calm 0	10	10	1°140	
19	29°955	29°974	54°	54°	52°	59°	428	419	100	100	W 2	W 5	10	10	040	
20	30°095	30°175	51°	47°	45°	57°	286	277	76	86	NW 3	Calm 0	5	0	—	
21	30°073	29°988	56°	52°	44°	57°	360	389	79	98	SW 3	S 4	9	10	1°110	
22	29°853	775	55°	50°	46°	56°	433	454	100	100	S 5	S 5	10	10	1°390	
23	564	544	57°	50°	49°	58°	465	355	100	97	S 7	W 2	10	10	1°800	
24	29°670	839	54°	51°	49°	58°	348	374	83	100	SW 2	SW 1	10	10	400	
25	30°007	29°971	52°	54°	48°	58°	381	418	97	100	W 3	SW 4	10	10	1°220	
26	075	30°222	56°	53°	52°	60°	360	384	79	95	SW 3	SW 1	9	10	1°100	
27	236	281	57°	52°	51°	64°	413	355	87	90	NW 1	Calm 0	10	6	—	
28	321	327	53°	58°	48°	63°	410	485	100	100	W 4	W 1	10	10	020	
29	382	429	62°	58°	57°	65°	539	431	97	89	W 2	NW 2	6	1	—	
30	222	30°307	60°	58°	54°	74°	514	388	71	79	Calm 0	Calm 0	0	0	—	
31	30°073	29°986	72°	57°	56°	73°	611	449	77	97	Calm 0	W 1	3	10	—	
Means	30°034	30°045	55°	51°	48°	60°	378	362	85°	93°	2°	2°	8°	6°	10°670	

## BABBICOMBE, DEVON.

Height above Mean Sea Level, 293 feet. Long. 3° 31' W. Lat. 50° 29' N.  
JULY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.	
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.		
1	ins.	ins.	30°086	57°	54°	53°	64°	378	336	79	78	Calm 0	NNW 1	10	3	ins.	
2	30°079	30°086	57°	54°	53°	64°	378	336	79	78	Calm 0	NNW 1	10	3	—		
3	054	086	62°	54°	47°	69°	384	325	67	77	Calm 0	W 2	10	0	—		
4	066	040	63°	54°	51°	68°	391	366	67	86	WSW 3	WSW 2	6	3	010		
5	30°036	30°025	63°	53°	53°	67°	346	306	61	75	WNW 1	Calm 0	6	8	—		
6	29°979	29°923	64°	50°	44°	66°	343	306	57	83	SW 2	W 2	6	3	240	< in NE, 10.45p.—10.50p.	
7	29°938	30°130	55°	49°	44°	63°	304	281	69	79	NW 2	WSW 1	7	0	—		
8	30°221	286	60°	50°	45°	66°	290	293	56	81	NNW 2	W 1	6	0	—	Squalls, p. < in ENE, 11.40p.—11.50p.	
9	317	364	61°	52°	45°	66°	309	302	56	75	NW 2	NW 1	3	2	—		
10	376	366	62°	54°	47°	67°	374	340	66	80	WSW 1	WSW 1	5	3	—	Prismatic ☉ 2p.—2.30p.	
11	288	103	65°	55°	50°	71°	421	378	68	87	WSW 3	WSW 1	5	3	—	Prismatic ☉ 6p.—7p. ☽ after 9p.	
12	124	30°120	62°	54°	52°	67°	457	322	80	76	WSW 2	NW 1	10	1	—		
13	30°042	29°884	59°	56°	49°	66°	409	475	79	94	SW 2	NW 2	7	2	—	☽ before ga.	
14	29°827	743	59°	57°	52°	65°	409	475	79	94	SW 2	SW 2	10	10	140		
15	526	273	60°	54°	54°	61°	494	397	96	93	SW 3	NW 4	10	10	800	☼ at times, 2p.—7p. Squalls, p.	
16	343	357	59°	55°	53°	65°	421	375	84	84	W 3	WSW 4	9	10	110		
17	294	460	56°	57°	55°	65°	431	422	95	88	SW 4	W 3	10	10	010		
18	664	873	57°	54°	54°	61°	378	344	79	80	WNW 5	W 3	9	6	—	Squalls ga.	
19	970	898	56°	58°	49°	62°	349	431	77	88	WSW 2	WNW 2	9	9	—	☼ p.	
20	29°893	29°891	61°	59°	56°	69°	420	421	85	84	W 2	W 3	10	10	—		
21	30°026	30°102	58°	52°	48°	66°	301	345	60	86	WNW 2	WSW 1	5	1	—	☽ after 9p.	
22	30°053	29°956	62°	56°	48°	64°	382	407	69	90	WSW 3	SW 3	9	8	—	☽ a. and 9p.	
23	29°793	718	59°	59°	55°	64°	467	487	91	97	SSW 3	SSW 4	10	10	090	☽ before ga.	
24	536	471	59°	54°	54°	60°	498	449	98	98	S 6	WSW 2	10	10	680	☼ p. ☽ 9p.	
25	601	763	63°	54°	51°	67°	434	388	74	90	WSW 3	WSW 4	3	0	010	Prismatic ☉ noon—0.30p.	
26	949	29°934	60°	56°	52°	66°	394	449	75	97	WSW 2	SSW 4	8	10	320	Prismatic ☉ noon.	
27	29°953	30°180	61°	57°	56°	69°	425	386	79	81	NW 2	W 2	2	2	—		
28	30°186	231	64°	56°	56°	71°	472	374	79	83	ENE 1	NW 1	8	2	—		
29	234	260	63°	64°	52°	71°	446	322	78	87	W 3	W 1	10	9	—		
30	326	348	72°	62°	62°	77°	572	494	72	89	Calm 0	WNW 1	5	1	010	☼ a. ☽ after 9p.	
31	328	30°231	59°	56°	55°	63°	479	444	95	98	E 1	W 1	10	10	010	☼ a. and p. Fog ☾ in SE, about 10°	
32	30°074	29°886	58°	62°	54°	68°	473	472	97	85	ENE 2	NNW 4	10	10	—	☼ a. [diameter, 6p. ☼ all day.	
Means	29°971	29°970	61°	56°	51°	66°	409	386	76°	85°	2°	2°	8°	5°	2°	430	



## MARKREE CASTLE.

Height above Mean Sea Level, 131 feet. Long. 8° 27' W. Lat. 54° 11' N.  
JULY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	59° 8'	59° 8'	51° 4'	65° 9'	in.	in.	75	93	SW 2	Calm 0	9	10	ins.	8 p.
2	30° 006	29° 989	59° 8'	59° 8'	51° 4'	65° 9'	387	376	75	93	SW 2	Calm 0	7	9	087	6.30 p.
3	915	961	51° 1'	50° 1'	47° 4'	58° 4'	355	313	94	86	W 2	NW 1	4	7	040	7.30 p.
4	982	946	51° 9'	47° 4'	43° 9'	57° 6'	271	300	70	92	Calm 0	Calm 0	10	6	053	Partial 4.40 p.
5	29° 879	29° 918	54° 1'	47° 5'	40° 9'	59° 4'	311	299	75	92	SW 2	Calm 0	8	9	133	
6	30° 016	30° 188	54° 1'	50° 0'	42° 6'	58° 3'	296	291	71	81	NW 3	NW 1	8	6	064	
7	268	283	50° 6'	51° 3'	45° 3'	59° 3'	338	324	92	85	W 4	WNW 1	6	10	—	
8	256	229	57° 6'	54° 6'	50° 0'	60° 4'	354	377	75	88	NW 2	SW 2	10	10	065	
9	30° 135	107	58° 0'	59° 1'	54° 5'	61° 7'	454	476	94	95	SW 1	W 2	10	10	053	
10	29° 950	040	60° 0'	54° 1'	53° 0'	66° 5'	488	338	95	80	SW 3	Calm 0	10	10	012	
11	30° 064	30° 048	55° 1'	54° 1'	50° 6'	59° 3'	329	338	76	80	W 2	WNW 2	10	10	—	
12	29° 914	29° 773	57° 1'	55° 1'	50° 2'	58° 4'	379	380	82	87	WSW 2	SW 1	10	9	305	
13	584	537	56° 6'	56° 1'	52° 5'	63° 8'	415	421	90	93	S 3	SW 0.5	10	10	083	
14	429	440	58° 0'	55° 0'	52° 6'	63° 6'	424	400	88	92	Calm 0	NW 1	10	10	075	
15	289	209	55° 3'	56° 3'	51° 9'	56° 9'	375	448	86	99	NW 4	NW 4	10	10	568	9 a.—10 p.
16	260	471	56° 3'	54° 0'	53° 9'	58° 0'	430	388	95	93	N 3	NW 5	10	10	294	
17	623	829	53° 3'	53° 3'	51° 7'	59° 0'	351	321	86	79	NNW 5	NW 3	9	9	024	
18	829	813	55° 6'	57° 3'	46° 3'	60° 0'	352	439	79	93	SW 2	Calm 0	10	10	074	
19	650	823	59° 0'	48° 2'	47° 9'	60° 1'	452	288	91	86	SW 2	SW 1	10	1	115	
20	867	813	55° 1'	53° 0'	43° 0'	60° 2'	308	525	72	81	SW 2	SW 3	8	10	145	
21	674	551	58° 9'	58° 9'	53° 0'	62° 8'	472	466	96	94	SW 2	SW 3	10	10	292	
22	504	418	56° 3'	53° 3'	52° 7'	64° 3'	364	370	80	91	SW 3	S 2	10	7	160	10.15 p.
23	239	188	60° 2'	54° 6'	50° 3'	63° 4'	372	331	71	78	S 3	SSW 2	6	7	090	1.10 p.
24	320	523	56° 6'	52° 6'	49° 4'	62° 2'	365	335	79	84	WSW 3	SW 2	10	9	145	5.30 p.
25	698	29° 737	56° 3'	53° 9'	50° 0'	66° 2'	390	393	86	95	SW 3	SW 1	10	7	130	9 p.
26	29° 915	30° 051	55° 3'	56° 1'	49° 6'	63° 0'	380	369	87	81	Calm 0	WSW 1	10	10	010	
27	30° 137	173	55° 9'	54° 1'	52° 0'	61° 4'	359	367	80	87	NNW 3	Calm 0	8	8	161	
28	053	164	60° 0'	60° 7'	53° 2'	65° 4'	492	482	95	91	WNW 3	WSW 2	10	10	—	
29	170	214	64° 8'	59° 4'	57° 8'	68° 6'	491	464	81	93	WSW 3	SSW 3	9	10	—	
30	30° 191	084	63° 2'	59° 0'	54° 8'	73° 4'	484	474	83	95	SSW 2	Calm 0	8	10	005	
31	29° 949	30° 021	60° 2'	52° 2'	52° 1'	62° 4'	485	290	94	74	NW 2	NW 2	10	7	045	
Means	29° 830	29° 854	56° 8'	54° 0'	50° 1'	61° 9'	389	377	83° 9'	87° 8'	2° 4'	1° 5'	9° 0'	8° 7'	3° 261	

## DUBLIN.

Height above Mean Sea Level, 51 feet. Long. 6° 15' W. Lat. 53° 20' N.  
JULY 1877.

1	30° 066	30° 025	62° 0'	56° 8'	49° 9'	65° 4'	372	357	67	77	WSW 3	W 1	7	4	'110	
2	000	29° 981	59° 8'	54° 6'	53° 1'	63° 6'	310	370	61	87	W 3	W 3	8	6	'040	
3	000	971	60° 0'	51° 1'	49° 9'	66° 4'	301	322	58	85	W 4	WNW 2	6	3	'225	
4	30° 012	975	59° 0'	52° 0'	46° 1'	63° 5'	312	313	62	81	W b.N 3	W 2	5	3	'010	⊠ 4p. ● 2 showers and distant T
5	29° 919	29° 989	55° 8'	50° 5'	45° 2'	60° 3'	298	331	67	90	W 2	WNW 1	7	7	'388	Splendid double at Greystones.
6	29° 982	30° 158	55° 9'	52° 0'	46° 3'	59° 2'	298	315	66	81	N b.W 4	NW 2	6	4	'390	⊠ 2 p. T 2p.
7	30° 250	298	56° 6'	53° 4'	44° 6'	59° 6'	288	280	63	69	NNW 4	NW 2	5	8	'030	⊠ 11a., 1p., and 4.55p. Frequent
8	290	287	59° 2'	56° 0'	49° 9'	61° 2'	330	365	66	81	nwb.w3	W 1	7	10	'010	T
9	224	197	61° 7'	61° 5'	54° 5'	66° 4'	383	442	70	81	W 5	W 4	8	10	—	
10	085	054	61° 9'	59° 8'	58° 1'	66° 3'	428	423	77	82	WSW 4	W 3	8	9	—	in squalls, a. and p.
11	30° 097	30° 081	59° 5'	58° 0'	54° 2'	64° 6'	352	388	69	80	WNW 3	W 2	9	9	—	
12	29° 983	29° 835	59° 6'	58° 8'	54° 9'	65° 2'	353	386	69	78	W b.N 2	S 2	8	10	'150	
13	650	634	57° 9'	60° 1'	54° 4'	66° 6'	447	422	94	81	SSE 2	WSW 2	10	7	'055	
14	464	356	60° 4'	59° 6'	57° 4'	65° 4'	412	459	79	90	Calm 0	NNW 2	8	9	'310	⊠ p.
15	220	108	54° 3'	58° 0'	54° 0'	60° 3'	399	473	95	98	nwb.N 6	NNW 3	10	10	'770	a. and p., with squalls.
16	223	380	60° 0'	57° 9'	57° 0'	64° 3'	423	397	82	83	NW 4	NW 5	6	10	'209	in squalls, p.
17	579	808	56° 0'	55° 3'	54° 1'	61° 4'	388	349	86	80	NW 6	WNW 4	9	9	—	in squalls, n. and a.
18	882	840	56° 0'	58° 0'	48° 0'	60° 6'	350	467	77	97	W 2	Calm 0	9	9	'020	
19	765	849	60° 4'	51° 9'	51° 9'	65° 7'	447	311	86	81	Calm 0	WNW 3	9	2	'029	
20	909	933	58° 7'	56° 7'	47° 1'	63° 6'	334	355	67	77	WNW 4	WSW 2	6	8	'010	
21	799	741	61° 6'	61° 2'	54° 4'	65° 9'	432	437	79	81	SSW 4	SSW 3	7	10	'023	⊠ p.
22	589	500	62° 0'	57° 1'	50° 9'	63° 9'	419	373	76	80	SW 4	SW 2	8	3	'150	
23	319	311	57° 9'	57° 5'	55° 0'	64° 5'	431	324	90	69	SE b. 1	SW 3	10	4	'065	
24	432	599	59° 0'	54° 1'	52° 6'	65° 3'	352	362	71	86	WSW 3	WSW 3	5	2	'125	Brilliant p.
25	788	29° 780	59° 5'	56° 8'	52° 0'	64° 2'	379	408	74	88	WSW 3	SW 1	8	8	'101	
26	29° 928	30° 084	60° 0'	58° 9'	53° 7'	67° 2'	417	408	81	82	Wb.N 3	W 3	6	5	'010	
27	30° 158	203	59° 7'	58° 7'	54° 7'	66° 5'	372	390	72	78	W 3	W 2	9	4	'021	
28	074	214	63° 9'	54° 9'	68° 3'	52° 3'	524	91	88	W b.N 5	W b.N 5	10	9	'010	a. and p. Very warm.	
29	240	270	64° 0'	63° 7'	60° 2'	71° 7'	486	491	81	83	W 5	W 3	6	0	—	Very warm and fine.
30	271	30° 117	64° 0'	64° 8'	57° 0'	72° 5'	473	494	79	81	W 2	SW 3	2	1	—	Very brilliant throughout.
31	30° 018	29° 989	65° 9'	58° 7'	58° 3'	69° 9'	491	404	77	81	W b. 2	NW 2	8	9	'039	Very warm a. Cooler p.
Means	29° 878	29° 889	59° 7'	57° 3'	52° 9'	64° 8'	387	392	75° 2'	82° 5'	3° 2'	2° 5'	7° 4'	6° 5'	3° 300	

## BIRR CASTLE, PARSONSTOWN.

Height above Mean Sea Level, 182 feet. Long. 7° 55' W. Lat. 53° 6' N.  
JULY 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	56° 7	54° 6	33° 5	65° 5	in.	in.	389	379	SW 0° 5	WSW 0° 5	10	9	ins.	9p.
2	30° 068	30° 029	56° 8	53° 8	33° 4	65° 4	405	415	87	100	WSW 1	W 0° 5	9	10	004	
3	29° 960	30° 000	64° 7	50° 0	50° 0	65° 3	412	358	67	99	WSW 1	WSW 0° 5	7	10	001	
4	30° 014	29° 989	57° 5	49° 6	45° 4	61° 5	471	356	99	100	Calm 0	Calm 0	6	10	037	
5	29° 912	29° 912	54° 1	50° 6	49° 6	60° 9	420	369	100	100	W 0° 5	WNW 0° 5	7	10	011	
6	30° 225	30° 201	54° 7	50° 7	41° 2	62° 0	318	291	75	79	NW 1-2	NW 1	7	2	037	
7	* 090	* 317	56° 5	52° 0	42° 2	61° 8	309	292	68	75	NW 1-2	WNW 0° 5	7	10	010	
8	* 307	* 310	57° 3	56° 1	45° 5	62° 3	329	382	70	84	SW 0° 5	SW 0° 5	10	10	—	
9	* 241	* 207	60° 4	59° 7	55° 1	64° 4	415	460	79	91	SW 1-2	NW 1	10	10	010	
10	* 067	* 082	61° 7	56° 5	50° 8	64° 2	437	371	79	81	SW 2-3	W 0° 5	10	9	012	
11	30° 125	30° 089	53° 6	54° 8	52° 3	62° 3	372	371	90	87	W 0° 5	WSW 0° 5	10	9	001	
12	29° 963	29° 810	58° 9	55° 6	52° 8	61° 0	363	423	73	95	SW 0° 5	SE 0° 5	10	10	348	9a.
13	* 612	* 592	57° 0	58° 5	55° 2	66° 3	446	443	96	90	SW 0° 5	WSW 0° 5	10	10	010	
14	* 447	* 395	59° 0	57° 1	56° 9	66° 5	419	419	84	89	Calm 0	Calm 0	10	10	006	
15	* 317	* 209	56° 6	55° 8	55° 0	59° 0	375	446	81	100	SW 1-2	W 1	9	10	739	
16	* 287	* 501	57° 2	55° 3	54° 2	59° 7	437	405	93	92	NW 1	WNW 1-2	10	10	133	
17	* 678	* 884	57° 0	51° 8	51° 3	62° 7	344	331	74	86	NW 2-3	WNW 0° 5	9	1	—	
18	* 866	* 841	55° 0	58° 0	45° 6	64° 6	381	451	88	93	SE 0° 5	SSW 0° 5	10	10	010	
19	* 744	* 882	60° 7	50° 3	50° 2	61° 9	507	299	96	82	WSW 1-2	W 0° 5	10	1	050	
20	* 929	* 899	57° 0	54° 1	49° 8	61° 3	346	336	74	80	W 0° 5	SW 0° 5	8	3	—	
21	* 777	* 622	61° 2	60° 4	53° 4	62° 3	462	469	86	90	SSW 1	SSW 1	10	10	030	
22	* 270	* 468	56° 1	56° 6	56° 1	63° 2	393	397	87	86	SW 0° 5	S 0° 5	10	10	227	
23	* 271	* 262	65° 7	55° 1	55° 4	66° 2	338	371	53	85	SSE 0° 5	SSE 0° 5	9	4	061	
24	* 412	* 613	58° 6	53° 0	50° 0	61° 5	372	363	76	90	SW 0° 5	WSW 0° 5	6	7	290	
25	* 781	29° 746	56° 4	56° 3	50° 2	63° 0	382	446	84	98	SSW 0° 5	SSE 0° 5	10	10	049	
26	29° 967	30° 111	58° 5	56° 5	52° 6	63° 8	441	392	89	86	WSW 0° 5	SW 1	9	10	—	
27	30° 174	* 236	58° 9	54° 4	54° 3	66° 3	373	386	75	92	WSW 0° 5	Calm 0	9	2	004	
28	* 126	* 242	62° 2	61° 2	55° 0	69° 5	528	527	95	98	WNW 1	SSW 0° 5	10	10	—	9a
29	* 271	* 294	60° 5	59° 7	58° 7	72° 6	480	474	92	93	W 0° 5	SW 0° 5	10	5	—	
30	* 259	* 135	64° 7	62° 1	57° 2	71° 8	502	506	83	91	SE 0° 5	Calm 0	1	10	—	
31	30° 010	30° 044	63° 2	51° 6	51° 6	67° 2	497	338	86	88	SW 0° 5	NW 0° 5	10	2	069	
Means	29° 877	29° 901	58° 7	55° 2	51° 8	64° 0	408	395	82° 7	89° 9	0° 8	0° 6	8° 8	7° 9	2° 316	



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## DURHAM.

Height above Mean Sea Level, 335 feet. Long. 1° 35' W. Lat. 54° 46' N.  
AUGUST 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	10 a.m.	10 p.m.	10 a.	10 p.	Min.	Max.	10 a.	10 p.	10 a.	10 p.	10 a.m.	10 p.m.	10 a.	10 p.		
1	ins.	ins.	64.7	62.2	47.5	72.7	in.	in.	63	81	NW 0.8	NW 0.9	4	10	ins.	
2	29.834	29.826	64.7	62.2	47.5	72.7	390	310	63	81	NW 0.8	NW 0.9	4	10	ins.	
3	29.861	29.962	57.0	45.5	44.6	63.7	349	303	75	100	WNW 0.7	N 0.3	10	2	193	
4	30.016	30.034	58.3	48.8	41.1	63.7	358	270	74	78	Calm 0.0	S 0.4	8	4	—	
5	30.033	29.998	61.7	55.0	45.6	69.8	431	418	79	97	SSE 0.5	SE 0.5	10	10	—	
6	29.913	29.913	59.0	62.3	54.7	71.5	455	477	92	85	SSE 0.8	S 0.8	10	9	—	
7	555	357	66.5	60.2	58.1	73.5	543	515	84	99	SSE 1.4	SE 0.9	10	10	278	
8	376	367	64.2	50.1	52.8	67.4	499	439	83	97	S 1.8	SE 0.5	7	3	342	K p.
9	369	541	63.8	57.2	52.9	70.5	512	431	86	92	WNW 0.7	WNW 0.8	7	8	342	
10	688	29.876	62.0	54.4	54.4	69.3	456	370	82	88	WNW 0.6	W 0.5	9	10	—	
11	29.981	30.094	60.0	53.6	51.2	66.1	447	397	87	97	NW 0.8	NNE 0.8	10	10	—	
12	30.117	30.123	56.5	55.1	52.4	65.2	430	435	94	100	N 0.8	NNE 0.7	10	10	—	
13	30.085	30.036	58.5	57.7	54.2	59.4	491	477	100	100	NE 0.8	NE 0.5	10	10	—	
14	29.923	29.896	61.5	57.8	55.2	63.3	515	454	95	94	NE 0.6	Calm 0.0	10	10	—	
15	862	878	61.0	57.7	54.2	69.9	461	474	86	100	SSE 0.7	SSW 0.8	10	10	—	
16	844	771	66.2	58.3	54.5	73.2	526	474	82	97	S 0.5	Calm 0.0	9	10	250	K p.
17	29.842	29.991	57.2	51.5	51.0	58.9	453	379	97	100	NE 0.5	Calm 0.0	10	10	199	K p.
18	30.013	29.849	53.7	54.8	51.4	56.0	398	430	96	100	NE 0.5	ENE 0.5	10	10	843	ga.
19	29.667	29.762	62.3	56.0	53.7	66.4	516	446	92	99	SSW 0.7	NE 0.3	10	10	815	
20	744	494	58.8	59.5	55.7	60.5	493	509	99	100	E 0.5	S 0.5	10	10	502	
21	280	564	57.2	50.3	50.3	65.7	462	359	99	99	SW 1.4	Calm 0.0	10	10	173	K a.
22	587	29.748	53.3	49.2	49.0	55.3	343	335	84	96	ENE 2.7	NW 0.2	10	10	690	
23	29.895	30.041	53.0	46.1	43.0	61.6	327	275	81	89	SW 0.5	NW 0.4	10	0	—	
24	30.029	30.080	60.8	49.2	37.5	65.4	354	319	67	92	SW 1.8	W 0.2	8	4	—	
25	29.983	29.699	55.3	53.9	43.0	61.9	408	413	93	100	E 0.8	ENE 0.7	10	10	706	
26	667	908	54.2	51.8	51.8	57.9	415	379	99	98	NNE 2.0	NE 0.5	10	10	100	
27	848	609	57.0	56.8	50.6	60.9	397	462	85	100	ESE 1.2	S 0.2	10	10	212	
28	363	664	65.5	51.2	50.8	69.4	452	371	73	99	SW 4.2	NW 0.2	7	10	039	in squalls.
29	868	792	58.5	51.4	47.4	65.6	383	351	79	92	SSW 0.9	S 1.8	7	7	072	
30	578	675	57.5	50.1	49.9	63.8	394	328	83	91	SW 3.0	SW 0.6	6	4	195	
31	29.597	29.847	49.5	44.9	43.5	58.9	349	298	99	100	SSW 1.1	NW 0.8	10	5	380	K p.
Means	29.783	29.808	59.3	53.7	49.9	65.0	432	397	85.6	95.1	1.1	0.5	9.0	8.3	6.080	

## HAWES.

Height above Mean Sea Level, 800 feet. Long. 2° 11' W. Lat. 54° 18' N.  
AUGUST 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.		
1	29.899	29.889	56.0	49.9	46.7	62.0	312	313	70	88	NW 1	W 1	4	10	210	
2	896	944	57.0	50.0	45.7	61.2	312	294	67	82	W 1	WSW 3	9	10	—	
3	29.910	29.959	52.7	48.9	47.8	57.0	322	303	81	88	W 2	W 2	10	3	030	
4	30.044	30.074	55.1	51.8	37.9	62.9	276	338	64	87	Calm 0	WSW 1	9	10	040	
5	30.061	30.032	60.5	56.9	50.3	69.1	403	379	77	82	Calm 0	E 1	10	10	—	
6	29.947	29.806	58.8	61.0	53.7	70.2	388	470	78	88	S 1	WSW 2	10	9	040	
7	597	382	64.0	58.1	58.1	65.3	461	480	77	99	SE 1	SSW 1	10	10	260	ga. and before.
8	392	377	55.5	56.0	51.2	64.0	416	419	95	93	ESE 1	E 1	10	9	760	K 0.15p.—3p.
9	423	640	59.0	56.0	54.0	60.4	424	389	86	87	WNW 1	WSW 2	10	9	140	
10	29.737	29.912	56.0	53.0	53.0	62.8	413	358	92	89	W 2	W 2	10	10	—	
11	30.011	30.114	56.2	54.4	44.8	64.0	322	382	71	91	WNW 1	E 1	2	10	—	
12	135	161	56.9	55.0	50.9	59.4	353	379	76	88	Calm 0	E 1	8	10	—	
13	30.108	30.046	59.0	57.1	53.9	65.0	454	443	92	94	E 1	E 1	10	10	—	
14	29.949	29.913	60.3	56.9	53.9	70.0	409	430	78	93	NE 1	E 1	1	7	—	
15	897	933	60.0	57.1	53.3	66.9	431	439	84	93	Calm 0	Calm 0	10	3	130	
16	894	29.849	61.5	57.0	50.9	68.1	461	453	85	97	Calm 0	Calm 0	10	10	180	
17	29.859	30.015	60.1	51.9	51.9	70.0	425	360	82	93	W 1	E 1	9	10	030	
18	30.026	29.906	56.0	57.7	50.3	60.0	416	459	92	96	E 1	Calm 0	10	10	710	ga. and before.
19	29.725	29.772	59.7	59.8	54.7	64.7	457	483	90	94	WSW 1	W 2	10	10	120	
20	777	547	59.0	62.3	57.9	63.1	496	529	99	94	E 1	WSW 1	10	7	1230	
21	349	580	56.9	52.8	52.7	62.8	433	353	93	88	WSW 1	W 4	10	10	270	K 0.2 7a.—7.45a.
22	610	29.786	47.9	43.8	43.3	53.1	318	265	96	93	E 1	Calm 0	10	10	910	
23	29.913	30.089	52.0	43.8	43.5	57.6	276	259	72	91	WNW 1	WSW 2	5	1	130	
24	30.095	30.133	52.0	46.3	36.6	61.0	333	304	85	97	Calm 0	E 2	10	8	120	
25	30.013	29.699	49.5	50.6	39.7	58.8	316	353	90	96	Calm 0	E 3	10	10	430	
26	29.649	29.933	54.2	51.2	50.0	55.9	377	348	90	93	NE 2	E 1	10	10	260	
27	857	633	52.0	60.3	50.0	60.3	379	479	98	92	E 1	SW 2	10	10	1170	
28	448	642	57.0	53.2	52.9	61.0	412	371	88	92	SW 1	W 3	10	7	320	
29	913	866	55.6	47.6	46.9	61.1	343	315	77	96	W 1	Calm 0	5	10	250	
30	642	720	51.0	50.2	47.6	58.0	338	329	90	91	WSW 2	WSW 3	10	8	560	
31	29.634	29.902	49.0	44.9	43.8	56.5	302	274	87	92	SW 3	Calm 0	10	7	610	
Means	29.820	29.847	56.1	53.4	49.3	62.3	330	379	83.9	81.5	1.0	1.5	8.8	8.6	8.900	

## WAKEFIELD.

Height above Mean Sea Level, 96 feet. Long. 1° 30' W. Lat. 53° 41' N.  
AUGUST 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.		
1	ins.	ins.	59°	54°4	47°9	66°0	in.	in.	%	%	WNW 2	WNW 2	4	6	ins.	T 1.45p.
2	29°881	29°910	59°2	54°4	47°9	66°0	°346	°334	69	79	WNW 2	WNW 2	3	8	°010	
3	°911	°949	59°0	54°2	46°1	63°8	°294	°309	58	73	WNW 4	WNW 2	3	8	—	
4	29°925	29°941	58°7	54°2	51°1	61°0	°318	°348	65	83	WNW 3	W 1	7	4	—	
5	30°041	30°074	57°0	57°6	41°3	64°9	°268	°375	58	79	Calm 0	Calm 0	0	8	—	
6	30°060	29°946	65°0	64°0	53°2	74°2	°416	°516	68	87	Calm 0	SW 1	3	7	°010	
7	29°955	°791	60°1	66°0	53°9	74°8	°415	°489	80	77	S 1	Calm 0	10	10	°010	
8	°649	°449	68°4	59°6	59°0	72°1	°469	°465	67	91	S 3	S 2	6	10	°210	
9	°401	°345	61°4	60°2	52°7	69°8	°446	°446	82	86	SSW 1	ESE 1	8	3	°220	
10	°437	°686	61°2	58°2	56°6	65°4	°433	°415	81	85	W 2	Calm 0	9	4	°020	
11	29°738	29°922	58°0	57°5	56°0	62°7	°424	°374	88	80	W 3	WNW 1	8	10	—	
12	30°005	30°086	59°4	57°4	56°2	68°8	°321	°369	63	78	NW 2	Calm 0	4	8	—	
13	°092	°113	58°7	58°2	54°0	63°8	°381	°430	78	88	WNW 1	ENE 1	10	10	°010	
14	30°060	30°010	63°2	60°2	56°6	68°8	°469	°479	81	92	NNE 1	NNW 1	7	8	—	
15	29°927	29°866	60°4	60°7	56°7	71°8	°431	°412	83	78	N 1	Calm 0	10	10	—	
16	°895	°895	60°4	62°0	59°0	71°3	°462	°524	89	95	SSE 1	Calm 0	10	10	°370	
17	°890	29°832	64°8	60°2	54°2	72°8	°482	°479	80	92	S 1	SW 1	6	10	°580	
18	29°856	30°051	62°8	57°6	53°5	71°8	°454	°418	80	87	SW 1	W 1	7	10	—	
19	30°030	29°896	60°2	61°6	55°2	70°2	°446	°489	86	89	S 1	S 1	8	10	°130	
20	29°726	°771	64°8	65°0	57°6	70°0	°520	°545	85	88	S 1	Calm 0	10	10	°130	
21	°783	°516	61°4	67°0	60°2	69°8	°520	°507	96	77	Calm 0	Calm 0	10	7	°280	
22	°368	°580	62°0	58°8	58°2	68°2	°418	°355	76	72	W 4	W 3	10	2	°120	
23	°573	29°773	54°2	46°2	46°1	61°0	°403	°284	96	92	NNE 1	NW 1	10	5	°410	
24	29°912	30°087	55°0	50°0	45°6	60°3	°279	°288	65	81	WNW 1	WNW 1	3	6	—	
25	30°112	30°127	58°2	50°2	40°6	64°8	°313	°331	65	92	W 2	Calm 0	4	8	—	
26	29°975	29°600	53°4	55°2	45°1	62°8	°351	°427	86	98	NNE 1	NNE 1	10	10	°750	
27	°628	°930	56°2	55°2	53°2	60°0	°413	°399	91	91	NNW 1	Calm 0	10	10	°320	
28	°850	°682	55°4	64°8	53°8	64°8	°415	°524	95	86	E 1	S 3	10	10	°160	
29	°555	°646	65°0	57°4	57°4	68°6	°422	°369	69	78	SSW 3	WNW 2	5	3	°010	
30	°921	°857	59°4	56°2	52°2	67°8	°352	°358	70	79	W 2	WSW 1	2	4	—	
31	°696	°771	61°2	55°7	52°3	63°7	°342	°339	63	77	SW 3	WSW 2	3	8	—	
32	29°693	29°874	57°2	49°2	47°1	59°0	°290	°290	62	84	SW 5	SW 1	2	1	°090	
Means	29°824	29°838	60°0	57°9	52°7	66°9	°397	°409	76°6	84°3	1°7	1°0	6°7	7°4	4°060	



## BUXTON.

Height above Mean Sea Level, 987 feet. Long. 1° 54' W. Lat. 53° 14' N.  
AUGUST 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	54.4	50.6	46.4	59.7	ins.	ins.	73	90	N	1	NW	1	5	ins.
2	29.896	29.897	54.4	50.6	46.4	59.7	330	331	73	90	NW	2	NW	3	8	0.015
3	29.944	29.993	52.2	49.3	46.3	58.9	330	336	84	90	NW	2	NW	3	10	0.040
4	29.958	29.976	52.0	50.3	43.3	57.7	358	333	92	92	NW	1	NW	2	10	0.040
5	30.046	30.049	56.3	52.6	43.6	62.4	292	366	64	93	NW	1	NW	1	6	0.010
6	30.037	30.032	65.0	58.3	46.5	70.1	364	406	59	83	SW	1	Calm	0	5	0.010
7	29.939	29.806	56.7	62.0	53.3	69.9	424	459	92	83	S	1	SW	1	10	0.010
8	29.900	29.905	65.4	54.9	54.0	65.9	496	401	80	93	S	2	SE	1	7	0.355
9	29.880	29.881	58.1	56.5	50.9	62.9	406	406	83	89	S	3	SE	3	9	1.050
10	29.877	29.877	54.9	55.9	54.0	61.7	401	412	93	92	NW	4	WNW	1	10	0.220
11	29.792	29.952	53.1	51.3	51.0	56.2	381	352	94	93	WNW	2	NW	1	10	0.050
12	30.006	30.123	55.9	51.9	48.5	61.9	331	304	75	79	NW	2	NW	2	8	—
13	30.112	30.139	55.5	52.6	47.5	62.4	374	356	85	90	NE	1	Calm	0	10	—
14	30.064	29.984	58.7	56.1	52.0	64.0	428	415	88	91	NE	2	E	2	7	—
15	29.923	29.886	55.6	57.7	53.6	66.8	421	315	95	66	E	3	SE	1	10	1.130
16	29.917	29.911	56.7	55.9	54.5	67.2	430	418	93	93	E	1	NW	1	10	0.090
17	29.916	29.822	59.4	59.6	55.9	67.9	435	428	85	84	NbyW	1	NW	2	9	0.020
18	29.882	29.822	56.5	56.9	53.2	65.1	409	427	89	92	NW	1	NW	1	10	—
19	30.006	29.921	61.8	59.6	60.0	65.0	424	477	77	94	SW	1	W	1	7	0.070
20	29.732	29.703	60.5	60.8	57.2	66.9	464	494	89	93	SW	1	SW	2	10	0.450
21	29.756	29.758	58.3	63.1	56.9	69.0	470	491	97	85	SE	2	SE	3	10	0.900
22	29.762	29.707	54.9	55.6	51.0	63.4	401	393	93	88	SW	4	SW	2	10	2.10
23	29.804	29.804	54.9	44.7	44.6	56.9	393	277	92	93	E by S	1	SW	1	10	0.310
24	29.976	30.113	48.6	42.9	42.2	55.8	299	254	88	92	NW	3	NW	1	6	—
25	30.136	30.140	55.2	46.7	42.5	61.1	329	304	76	96	NbyW	3	Calm	0	3	—
26	29.907	29.551	52.1	52.7	44.8	58.8	349	370	89	93	E	3	E	4	10	0.750
27	29.663	29.918	54.9	52.6	50.0	56.9	401	382	93	97	NW	2	Calm	0	10	1.190
28	29.828	29.701	53.9	60.6	51.4	61.3	386	498	93	94	SE	1	SW	1	10	0.920
29	29.512	29.685	61.3	56.5	58.8	62.9	421	409	78	89	SW	5	SW	2	6	1.100
30	29.945	29.840	54.9	55.3	44.2	62.9	333	348	78	80	NW	3	NW	1	6	—
31	29.680	29.781	56.4	50.4	50.0	60.5	331	328	73	89	W	3	W	4	3	0.020
Means	29.831	29.846	56.4	54.3	49.7	62.5	383	379	84.2	88.9	2.1	1.5	8.0	7.9	6.155	

## HILLINGTON, NORFOLK.

Height above Mean Sea Level, 88 feet. Long. 0° 33' E. Lat. 52° 48' N.  
AUGUST 1877.

1	29° 8'11	29° 8'64	59° 8	56° 8	56° 0	66° 2	418	351	81	76	W	3	W	3	7	10	—
2	8'96	9'30	58° 8	53° 6	49° 1	65° 6	366	309	74	75	NW	3	NW	2	7	4	—
3	29° 9'37	29° 9'13	57° 8	51° 0	47° 3	69° 0	358	366	75	98	NW	5	NW	1	8	4	0'015
4	30° 0'23	30° 0'35	59° 0	55° 0	40° 4	66° 5	329	349	66	81	NW	1	NW	1	4	10	—
5	30° 0'68	30° 0'09	60° 0	59° 7	51° 1	77° 1	276	461	54	91	N	1	SE	1	3	8	—
6	29° 9'95	29° 8'52	72° 0	62° 3	51° 4	77° 4	434	439	55	78	SE	3	SE	2	9	8	1°100
7	6'72	4'43	72° 8	61° 7	59° 2	78° 7	639	550	80	100	SE	3	SE	2	4	10	2°65
8	4'98	4'42	65° 0	59° 0	51° 5	73° 2	467	454	77	92	S	4	S	3	8	8	1°116
9	5'14	6'84	61° 7	58° 1	57° 3	77° 5	433	473	80	98	WSW	5	SW	3	10	3	0°30
10	7'91	29° 8'94	59° 7	54° 2	54° 2	67° 5	421	412	83	98	W	3	NW	0°5	10	9	—
11	29° 9'55	30° 0'29	58° 6	56° 5	51° 0	69° 2	306	427	62	94	NW	1	NW	0°5	10	10	Distant T 4p.
12	30° 0'57	30° 0'05	60° 8	57° 9	54° 0	66° 2	453	480	85	100	NE	4	NE	4	9	10	early a.
13	30° 0'93	29° 9'43	65° 9	60° 7	57° 1	71° 3	552	507	87	96	NE	5	NE	2	5	5	—
14	29° 8'57	29° 8'97	65° 2	58° 3	55° 7	78° 1	531	472	86	97	NE	4	NE	1	10	10	—
15	8'98	9'19	65° 0	59° 0	56° 2	73° 9	482	500	79	100	S	3	SW	1	9	0	0°10
16	9'13	8'45	62° 6	60° 7	52° 3	75° 5	494	489	87	93	SW	3	SW	1	10	8	0°13
17	29° 8'70	9'48	63° 7	58° 5	52° 5	75° 7	453	462	77	95	SW	5	WSW	0°5	8	0	—
18	30° 0'62	9'23	63° 7	61° 5	50° 2	76° 1	464	546	79	100	S	1	SW	1	10	10	4°80
19	29° 7'51	7'74	61° 6	64° 6	59° 4	75° 0	548	554	100	91	SW	0°5	WSW	4	10	10	1°160
20	8'12	6'21	63° 6	68° 4	58° 9	79° 5	539	548	91	79	SE	1	SSW	4	10	10	0°60
21	4'58	6'22	66° 6	57° 8	57° 8	73° 7	537	418	83	87	SW	6	SW	3	10	9	0°70
22	5'86	29° 7'28	61° 7	52° 9	51° 8	71° 2	479	342	88	85	SW	3	SW	3	4	5	2°05
23	29° 9'23	30° 0'51	57° 1	48° 2	40° 9	63° 6	345	284	74	85	W	4	W	0°5	5	0	—
24	30° 1'37	30° 1'20	58° 2	50° 7	36° 8	68° 7	361	322	75	87	SW	2	SW	1	1	9	—
25	29° 9'49	29° 5'31	61° 6	59° 8	43° 7	67° 2	443	511	81	99	S	4	SW	2	9	9	2°30
26	5'79	8'92	59° 0	54° 7	54° 0	62° 7	489	422	98	99	NW	3	NW	0°5	10	10	4°35
27	8'17	7'73	59° 1	63° 9	54° 0	67° 0	494	550	98	93	SE	1	SW	4	10	10	1°025
28	29° 6'71	6'66	55° 2	57° 1	54° 9	74° 2	421	430	97	91	SW	3	SW	4	8	5	0°03
29	30° 0'02	8'92	57° 4	49° 3	48° 2	68° 7	397	339	84	97	NW	2	SW	3	3	6	—
30	29° 7'85	7'78	60° 1	52° 7	47° 2	68° 5	412	344	79	86	SW	5	SW	3	6	1	—
31	29° 8'04	29° 8'53	58° 4	50° 2	46° 2	64° 2	349	322	72	89	W	6	NW	4	4	0	0°02
Means	29° 8'44	29° 8'35	61° 7	57° 3	51° 6	71° 3	442	433	80° 2	91° 3	3° 1	2° 1	7° 5	6° 8	3° 246		

## UPPINGHAM.

Height above Mean Sea Level, 484 feet. Long. 0° 44' W. Lat. 52° 35' N.  
AUGUST 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	58.4	51.0	50.5	64.6	ins.	ins.	79	79	NNW 2	NW 1	6	8	ins.	
2	29.869	29.910	58.1	52.8	46.0	64.2	310	284	65	71	NW 4	NW 3	6	8	—	
3	29.923	29.980	58.9	51.2	47.7	61.8	316	345	63	72	WNW 4	WNW 4	5	9	0.059	
4	30.045	30.057	55.5	55.9	47.8	67.3	331	398	74	89	NW 1	Calm 0	9	10	—	before 9a. and at 9p.
5	30.063	30.035	64.8	60.5	50.2	75.8	410	376	67	72	SSW 1	swbys 1	1	4	—	
6	29.976	29.847	64.5	61.8	51.2	74.7	414	445	68	81	S by E 3	Calm 0	10	9	0.015	Wind backed, a. [night.
7	29.640	29.423	67.0	61.0	58.2	70.9	518	520	79	97	S by W 3	SSW 4	8	9	0.250	in showers, 11a.—9p. Rough
8	29.436	29.390	60.0	58.1	51.4	68.6	450	409	87	84	S 6	S 6	9	9	0.179	in showers, a. Bright with p.
9	29.504	29.651	61.1	57.3	55.6	67.5	429	442	80	94	WSW 5	SW 2	9	10	0.190	
10	29.801	29.914	61.0	55.3	53.5	66.0	371	399	70	91	W by S 5	Calm 0	9	10	—	
11	29.989	30.065	61.0	54.2	50.0	65.0	366	330	69	78	NW by N 2	NNW 1	5	1	—	T (only one clap), 1p.
12	30.088	30.061	57.1	56.2	50.2	65.8	404	413	86	91	N 1	N 1	10	10	—	before 9a.
13	29.987	29.936	62.0	58.8	54.2	73.1	456	474	82	96	E by N 2	ENE 3	7	10	—	
14	29.893	29.872	61.4	59.1	57.1	75.8	474	492	88	98	NE 3	ESE 1	7	10	0.01	before 9a.
15	29.903	29.914	60.7	59.3	56.4	72.4	477	480	95	91	SW 1	SW 2	10	1	—	with slight drizzle n. and a.
16	29.915	29.893	63.0	58.6	54.1	72.4	477	480	95	91	WSW 1	S by N 1	9	2	0.020	D a. T 3.15p.—4p., and at 6.30p.
17	29.903	29.984	61.2	57.2	50.3	66.3	403	439	82	96	W by N 1	W by N 1	9	8	0.018	
18	29.842	29.933	62.4	60.6	51.0	72.3	460	509	82	96	SSW 1	S by E 1	9	10	0.590	before 9a.
19	29.794	29.784	60.5	62.2	56.8	66.9	521	521	99	94	S by W 1	SSW 2	10	10	0.238	before 9a.
20	29.785	29.648	62.0	64.8	57.3	70.3	496	552	99	87	SSW 1	swbys 3	10	5	0.011	before 9a.
21	29.766	29.637	65.8	56.2	55.8	70.3	496	552	99	87	SSW 1	swbys 3	10	5	0.011	before 9a.
22	29.555	29.751	61.1	48.1	47.8	66.3	441	296	82	89	SSW 3	WNW 2	4	8	0.036	
23	29.944	29.122	55.3	46.3	41.5	62.0	300	263	68	85	NW 1	NW 1	7	0	—	Very clear night.
24	29.944	29.122	55.3	46.3	41.5	62.0	300	263	68	85	WSW 2	Calm 0	4	10	—	Up 9p., with high
25	29.153	30.130	58.1	49.9	41.8	65.9	359	299	74	85	ESE 3	SE 1	9	10	0.301	7a. Wind in two currents, upper
26	29.925	29.972	60.0	57.1	48.1	61.0	415	447	94	99	NW 3	Calm 0	10	10	0.560	a. [from W, lower from E, then E.
27	29.817	29.517	57.9	55.0	45.0	67.7	447	427	94	99	Calm 0	swbys 6	10	10	1.082	11a.—11a. 2 [3p., till after
28	29.629	29.608	60.4	56.8	53.1	67.4	469	417	90	90	SSW 8	SW 3	7	9	—	all day till 7p. Bar. fell, then rose.
29	29.550	29.914	59.4	54.2	48.0	66.8	373	353	74	84	W by N 1	SW 1	7	0	—	
30	29.767	29.801	59.0	51.3	50.1	65.2	391	324	78	85	SW 5	WSW 2	9	1	—	in squalls, 7a.—4.30p.
31	29.907	29.907	56.5	48.5	45.5	61.4	348	297	76	87	W by S 5	NW 3	3	0	0.038	D a. 3p.—4p., followed by K (one clap) and 2.
Means	29.842	29.854	60.3	56.2	51.3	68.0	418	407	79.8	88.6	3.0	1.9	7.7	6.9	3.438	



## CHURCHSTOKE.

Height above Mean Sea Level, 548 feet. Long. 3° 5' W. Lat. 52° 31' N.  
AUGUST 1877.

Day.	Barometer.		Air Temperature.			Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.		
1	ins.	ins.	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
2	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
3	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
4	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
5	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
6	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
7	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
8	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
9	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
10	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
11	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
12	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
13	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
14	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
15	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
16	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
17	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
18	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
19	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
20	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
21	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
22	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
23	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
24	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
25	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
26	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
27	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
28	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
29	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
30	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
31	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.
Means	29°983	30°003	58°	50°	46°	60°	in.	in.	91	98	NW 3	SW 7	6	7	ins. before ga.

## HEREFORD.

Height above Mean Sea Level, 274 feet. Long. 2° 45' W. Lat. 52° 5' N.  
AUGUST 1877.

Day.	Barometer.		Air Temperature.			Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.		
1	29°944	29°961	58°	52°	51°	62°	316	356	64	92	NNW 1	Calm 0	6	10	0°40
2	29°978	30°044	56°	52°	48°	63°	302	312	66	79	WNW 1	WNW 1	4	1	—
3	30°045	30°044	55°	52°	46°	61°	334	367	75	83	WNW 2	WNW 1	10	10	0°36
4	30°045	30°041	58°	58°	51°	65°	382	415	78	86	Calm 0	Calm 0	10	10	—
5	30°052	29°995	65°	59°	46°	72°	439	391	71	76	Calm 0	Calm 0	0	4	0°05
6	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
7	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
8	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
9	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
10	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
11	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
12	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
13	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
14	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
15	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
16	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
17	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
18	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
19	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
20	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
21	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
22	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
23	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
24	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
25	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
26	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
27	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
28	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
29	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
30	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
31	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40
Means	29°996	29°995	61°	61°	55°	74°	409	391	87	93	Calm 0	Calm 0	0	9	0°40

AUGUST.  
AUDLEY END, ESSEX.  
Height above Mean Sea Level, 154 feet. Long. 0° 13' E. Lat. 52° 1' N.  
AUGUST 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.		
1	ins.	ins.	57°	55°	55°	69°	in.	in.	84	80	NW 2	SW 2	10	10	ins.	K before ga.
2	29°862	29°911	57°	55°	55°	69°	400	340	66	72	NW 2	NW 1	6	0	—	
3	29°934	29°992	59°	53°	48°	65°	331	298	66	72	NW 2	NW 1	7	10	°050	
4	30°002	29°972	59°	53°	50°	66°	331	373	66	91	NW 2	NW 1	8	10	—	
5	°047	30°074	57°	54°	50°	67°	349	384	74	91	NW 2	NW 1	4	0	—	
6	30°072	30°051	66°	55°	49°	75°	419	406	64	94	NW 1	SW 1	4	0	—	
7	29°994	29°862	68°	61°	49°	76°	427	439	61	82	SE 2	SE 1	7	3	1°50	
8	°663	473	72°	62°	50°	73°	539	531	68	96	S 2	S 2	5	10	1°90	
9	°520	456	64°	59°	54°	69°	457	454	77	90	S 3	S 2	6	0	1°90	
10	°601	751	65°	60°	57°	69°	438	459	69	89	W 3	W 1	7	10	1°30	
11	°846	29°916	64°	55°	54°	67°	413	397	68	92	W 2	Calm 0	7	3	—	
12	29°988	30°059	60°	54°	50°	67°	404	345	77	82	NW 1	NW 1	7	0	—	
13	30°062	30°018	60°	58°	48°	68°	394	447	75	92	N 2	N 2	8	10	°050	
14	29°955	29°907	63°	61°	56°	68°	461	472	80	88	NE 2	NE 1	8	8	—	
15	°840	°900	68°	57°	55°	76°	477	456	70	95	NE 1	NE 1	4	0	—	
16	°928	°948	62°	58°	56°	73°	492	451	87	93	Calm 0	SE 1	10	0	°010	
17	°955	29°892	63°	60°	57°	74°	428	507	75	96	SW 1	SW 1	10	8	°150	
18	29°922	30°004	65°	59°	52°	74°	459	472	75	89	W 2	W 1	5	4	—	
19	30°063	29°919	65°	61°	52°	74°	459	472	75	89	W 1	Calm 0	8	10	°160	
20	29°789	°855	64°	63°	60°	73°	550	507	91	80	Calm 0	SW 1	10	10	°040	
21	°834	°650	67°	68°	61°	80°	600	576	89	84	SW 1	W 1	10	8	—	
22	°539	°685	67°	59°	58°	74°	479	462	73	92	SW 3	SW 1	8	10	°520	
23	°627	29°805	62°	53°	52°	69°	489	351	89	87	SW 2	W 2	8	10	°140	
24	29°982	30°116	57°	50°	45°	63°	330	294	71	82	W 2	NW 2	4	0	—	
25	30°184	30°142	59°	53°	36°	67°	322	349	63	85	NW 1	SW 1	4	10	—	
26	29°957	29°444	60°	62°	51°	63°	434	541	84	96	SW 2	SE 1	10	10	°770	
27	°613	°957	61°	59°	58°	63°	479	407	89	94	NW 2	W 1	10	10	°580	
28	°850	°852	64°	64°	55°	69°	582	546	97	91	SW 2	SW 2	10	10	°340	
29	°743	°754	57°	60°	56°	70°	461	462	98	87	W 1	W 2	10	2	°060	
30	°976	°941	62°	52°	52°	65°	586	384	69	97	W 2	W 1	3	0	—	
31	°845	°858	62°	51°	50°	68°	413	333	75	89	W 2	W 1	5	0	°120	
32	29°866	29°932	58°	52°	48°	64°	384	355	79	89	W 2	W 2	5	0	°040	
Means	29°873	29°874	62°	57°	53°	69°	438	429	76°	89°	1°	1°	7°	5°	3°	690



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## MARLBOROUGH, WILTS.

Height above Mean Sea Level, 471 feet. Long. 1° 43' W. Lat. 51° 25' N.  
AUGUST 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	57.4	49.8	49.8	68.5	in.	in.	79	85	N	0.3	Calm	0	8	ins.
2	29.927	29.984	57.4	49.8	49.8	68.5	in.	in.	79	85	N	0.3	Calm	0	8	ins.
3	29.987	30.056	60.6	50.9	47.5	66.7	330	209	62	81	N	0.6	Calm	0	3	0
4	30.059	30.121	58.9	50.4	45.2	64.7	300	210	62	80	N	0.6	NW	0.2	8	10
5	30.086	30.146	59.9	58.4	49.6	68.5	360	218	70	86	NW	0.1	Calm	0	9	8
6	30.086	30.146	66.8	57.6	47.3	74.1	381	369	58	78	SW	0.1	Calm	0	1	2
7	29.958	30.018	64.5	61.8	55.0	74.0	427	535	71	97	S	0.1	E	0.6	9	10
8	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
9	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
10	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
11	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
12	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
13	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
14	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
15	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
16	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
17	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
18	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
19	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
20	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
21	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
22	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
23	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
24	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
25	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
26	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
27	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
28	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
29	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
30	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
31	29.952	30.012	63.6	55.4	55.1	64.7	477	421	81	96	S	0.3	SW	0.1	10	0
Means	29.979	29.988	61.8	56.7	52.4	68.3	435	417	78.7	89.9	0.4	0.2	7.8	5.0	4.805	

## STRATHFIELD TURGISS.

Height above Mean Sea Level, 195 feet. Long. 1° 0' W. Lat. 51° 20' N.  
AUGUST 1877.

1	29°'901	29°'912	58°'8	56°'9	55°'8	71°'2	352	334	71	73	NW	1	NW	1	3	4	—
2	29°'917	29°'980	60°'9	52°'1	46°'6	68°'3	342	288	64	74	NW	2	NW	1	4	4	—
3	30°'033	29°'970	61°'0	57°'2	46°'7	66°'5	308	366	58	78	SW	2	W	1	7	6	—
4	30°'026	30°'064	63°'2	60°'9	50°'4	68°'8	431	400	75	76	NW	2	NW	1	3	3	—
5	30°'066	30°'018	67°'7	54°'1	48°'5	75°'0	381	357	56	84	SW	1	S	2	6	5	—
6	29°'905	29°'828	68°'8	62°'8	46°'7	70°'2	439	535	62	94	SE	2	S	2	2	6	144
7	29°'657	29°'458	65°'9	57°'2	52°'8	66°'3	485	434	78	93	S	2	SW	1	5	7	378
8	29°'418	29°'409	63°'2	59°'2	49°'7	67°'2	469	436	81	88	SW	1	SW	1	6	8	166
9	29°'612	29°'767	61°'4	60°'1	53°'0	67°'3	436	422	81	81	SW	1	SW	1	7	8	—
10	29°'857	29°'922	62°'0	53°'9	52°'0	68°'0	409	355	72	85	SW	1	W	2	7	5	—
11	29°'976	30°'032	62°'1	57°'0	52°'0	67°'4	400	377	72	81	NW	1	W	1	3	10	—
12	30°'099	30°'082	60°'5	57°'0	51°'1	66°'6	409	406	78	87	W	1	NW	1	10	10	—
13	29°'961	29°'901	62°'0	62°'0	53°'0	72°'2	456	446	82	81	NE	1	SE	2	10	10	—
14	29°'826	29°'833	69°'5	60°'4	56°'3	75°'2	507	479	70	92	SE	1	SE	1	10	10	058
15	29°'917	29°'976	67°'9	58°'7	58°'2	74°'5	475	449	70	92	S	1	SW	1	8	0	—
16	29°'960	29°'920	67°'2	60°'0	57°'5	74°'4	459	453	69	88	SW	1	W	1	10	2	—
17	29°'969	30°'042	64°'0	55°'8	51°'4	73°'2	430	370	72	83	W	2	SW	1	3	0	—
18	30°'066	29°'943	66°'2	62°'7	49°'8	72°'2	461	439	72	78	S	1	Calm	0	7	10	010
19	29°'792	29°'861	70°'8	64°'5	58°'0	72°'2	558	520	74	87	W	2	W	1	10	10	—
20	29°'798	29°'867	72°'9	65°'3	61°'0	79°'1	541	520	67	83	S	1	SW	1	3	5	—
21	29°'589	29°'707	63°'8	58°'9	58°'8	74°'6	457	437	78	89	W	3	SW	2	10	8	684
22	29°'616	29°'784	62°'4	52°'7	52°'0	68°'5	453	334	81	84	SW	2	NW	1	8	0	—
23	30°'010	30°'203	56°'7	49°'0	44°'8	65°'6	306	290	67	84	NW	1	NW	1	3	0	—
24	30°'199	30°'130	59°'6	52°'4	35°'4	67°'6	303	343	59	87	NW	1	SW	1	0	10	283
25	29°'869	29°'514	56°'4	51°'1	50°'9	63°'1	389	323	86	86	SE	1	SE	1	10	10	057
26	29°'671	29°'971	62°'1	57°'8	51°'0	66°'5	473	403	85	84	W	1	Calm	0	10	10	103
27	29°'885	29°'911	63°'4	62°'2	55°'8	66°'5	533	487	92	88	SW	2	SW	2	10	10	084
28	29°'761	29°'807	63°'2	59°'9	58°'6	69°'5	489	404	85	79	W	2	W	2	8	10	016
29	29°'965	29°'969	63°'2	56°'0	55°'5	71°'3	416	381	72	85	SW	1	W	1	3	3	—
30	29°'873	29°'888	62°'0	53°'6	53°'1	66°'5	401	374	72	91	SW	2	W	1	8	0	178
31	29°'904	30°'009	56°'5	50°'0	46°'2	61°'6	304	309	67	86	W	1	NW	1	1	0	—
Means	29°'874	29°'886	63°'4	57°'5	52°'0	69°'6	428	402	73°'2	84°'5	1°'4	1°'2	6°'3	5°'9	2°'251		

## RAMSGATE.

Height above Mean Sea Level, 105 feet. Long. 1° 25' E. Lat. 51° 20' N.  
AUGUST 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.	
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.		
1	ins.	ins.	61.8	59.2	59.0	68.8	in.	in.	85	85	NW	4	SW	4	10	9	ins. °025
2	29.780	29.887	59.5	57.3	49.1	66.0	410	371	81	79	NW	4	SW	3	5	3	°114
3	°001	°062	59.5	57.3	49.1	66.0	410	371	81	79	W	4	SW	3	7	10	°025
4	29.996	29.961	60.1	54.4	46.6	66.3	412	401	79	95	W	4	SW	3	7	10	°106
5	30.022	30.074	59.8	59.1	53.2	68.2	449	437	88	88	NW	4	SE	3	6	10	
6	30.072	30.077	60.0	61.7	57.0	69.4	531	413	75	76	SE	3	SE	2	7	4	
7	29.946	29.872	67.2	67.1	60.5	70.2	444	449	66	68	SE	1	NE	3	2	7	
8	°094	°491	67.0	61.1	61.0	71.1	526	529	80	98	SE	4	SW	2	4	10	°645
9	°553	°564	62.6	60.3	56.5	67.2	447	446	79	85	S	7	S	6	4	8	°055
10	°647	°758	65.8	61.1	58.6	67.8	453	487	72	91	SW	6	SW	6	8	10	
11	°858	29.889	66.4	57.2	56.6	68.4	453	430	62	91	W	4	SW	2	5	7	°039
12	29.946	29.969	59.7	59.9	55.1	67.1	436	404	86	79	NW	3	NW	2	7	10	
13	30.057	29.952	61.1	60.3	53.8	67.1	407	446	76	85	NW	4	NW	5	8	10	°038
14	29.876	°857	64.0	62.5	59.1	68.7	507	529	86	94	NE	4	NE	4	9	4	
15	°801	°818	66.5	61.6	60.8	73.2	483	535	75	97	E	1	NE	1	3	10	
16	°873	°971	64.0	60.1	58.0	69.7	516	485	87	94	NE	1	SW	2	10	1	
17	°943	29.908	66.1	63.3	57.8	73.8	548	524	85	90	SW	2	SW	2	5	7	
18	29.948	30.014	67.8	59.8	57.0	74.6	425	453	63	88	SW	3	SW	2	5	1	
19	30.070	29.950	65.9	63.9	55.1	70.7	465	496	74	84	SE	3	NE	4	5	10	
20	29.762	°878	67.9	66.5	63.6	78.2	518	516	77	80	SW	4	SW	5	10	9	
21	°853	°675	68.4	68.0	63.1	74.5	574	613	83	89	S	4	S	1	2	10	°054
22	°591	°731	67.0	60.3	60.2	70.3	509	439	77	84	SW	6	SW	4	6	3	°052
23	°649	29.745	65.5	59.0	58.8	69.2	465	403	75	81	SW	5	SW	5	7	10	°068
24	29.960	30.121	59.0	52.2	50.7	66.2	321	298	64	77	NW	4	W	2	1	1	
25	30.175	30.071	62.0	60.3	44.6	65.7	307	371	55	71	NW	2	E	5	5	10	°023
26	°904	29.970	61.0	65.5	58.5	66.0	415	539	78	87	NE	4	SW	5	10	6	°532
27	°588	°573	64.9	59.4	59.1	69.2	518	391	85	78	W	5	SW	4	6	10	°225
28	°553	°916	65.5	63.8	58.4	66.3	546	537	90	91	SW	6	SW	7	10	10	
29	°746	°781	64.7	61.0	60.8	68.4	407	425	77	80	SW	7	SW	5	6	6	
30	°974	°954	63.6	57.3	55.9	68.3	394	422	67	89	NW	2	SW	2	4	5	
31	°870	°873	63.8	57.0	54.0	68.2	404	404	68	86	SW	5	SW	4	6	1	
32	29.882	29.945	61.5	52.0	51.1	65.7	345	302	63	78	SW	4	SW	3	2	0	
Means	29.861	29.881	64.1	60.4	56.6	69.4	457	449	76.3	85.1	5.9		3.5	6.0	6.8	2.051	



## DARTMOOR.

Height above Mean Sea Level, 1,372 feet. Long. 3° 59' W. Lat. 50° 33' N.  
AUGUST 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	53°	48°	48°	57°	ins.	ins.	70°	92°	N 3	NW 1	5	5	ins.	
2	30°062	30°127	52°	49°	48°	56°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
3	121	109	52°	49°	48°	56°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
4	188	161	54°	52°	48°	60°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
5	145	170	58°	52°	51°	64°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
6	30°096	30°027	60°	53°	46°	65°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
7	29°947	29°880	63°	57°	52°	63°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
8	616	571	56°	54°	53°	58°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
9	409	554	54°	54°	52°	54°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
10	735	29°948	53°	52°	50°	55°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
11	29°951	30°059	55°	51°	49°	56°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
12	30°103	158	56°	54°	48°	58°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
13	099	30°142	61°	48°	45°	63°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
14	30°011	29°966	60°	53°	48°	65°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
15	29°868	29°920	57°	57°	50°	60°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
16	30°001	30°039	56°	55°	55°	66°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
17	29°980	032	58°	53°	52°	61°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
18	30°078	30°131	54°	56°	53°	63°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
19	30°076	29°989	61°	59°	50°	66°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
20	29°849	926	59°	58°	56°	61°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
21	825	674	63°	60°	55°	65°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
22	740	755	55°	55°	53°	60°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
23	29°762	29°957	54°	49°	47°	58°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
24	30°124	30°173	51°	49°	44°	59°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
25	30°233	30°154	54°	48°	48°	58°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
26	29°820	29°418	53°	56°	48°	59°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
27	925	924	52°	57°	51°	57°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
28	980	938	58°	58°	56°	59°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
29	29°822	29°936	55°	54°	52°	58°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
30	30°070	30°056	56°	51°	50°	59°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
31	29°945	011	53°	49°	46°	59°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	
Means	29°961	29°972	56°	53°	50°	60°	30°062	30°127	81	84	NW 4	NW 1	8	5	0.10	

## BABBICOMBE, DEVON.

Height above Mean Sea Level, 293 feet. Long. 3° 31' W. Lat. 50° 29' N.  
AUGUST 1877.

1	29°977	30°043	59°	53°	53°	64°	329	333	65	82	NNW 4	NW 1	7	4	0.10	
2	30°059	127	58°	50°	50°	65°	344	320	72	88	NW 3	NW 1	7	1	—	
3	124	081	61°	55°	48°	68°	307	378	68	88	W 2	W 1	8	7	—	
4	082	089	65°	54°	53°	68°	425	371	69	87	S 1	SW 1	5	1	—	
5	30°084	30°014	63°	59°	47°	66°	431	416	74	83	SSE 2	SE 2	1	9	—	
6	29°915	29°819	63°	60°	59°	67°	505	522	85	98	SSW 2	SSW 2	9	10	0.370	
7	560	493	58°	57°	57°	62°	441	441	98	93	S 4	SW 3	10	2	0.870	
8	343	459	58°	57°	57°	62°	457	439	94	92	SSW 7	WSW 5	10	9	0.140	
9	660	29°857	60°	57°	55°	65°	449	409	87	85	W 2	W 3	10	10	—	
10	29°884	30°007	64°	52°	52°	66°	416	344	68	86	W 2	W 1	8	1	—	
11	30°064	101	61°	55°	52°	66°	394	374	74	84	WNW 1	NNW 1	9	2	—	
12	30°084	30°045	60°	57°	50°	65°	412	443	79	94	ENE 1	Calm 0	2	0	—	
13	29°961	29°857	60°	59°	54°	66°	415	446	80	87	NE 2	ENE 1	9	1	—	
14	796	857	60°	60°	58°	67°	461	457	87	86	E 2	Calm 0	9	10	—	
15	929	969	63°	58°	58°	70°	498	456	87	93	SSW 1	WSW 2	10	3	0.060	
16	29°924	29°955	61°	56°	56°	68°	507	409	93	88	SSW 2	W 1	9	1	0.10	
17	30°003	30°055	64°	59°	53°	72°	432	465	70	91	W 3	WSW 2	4	9	—	
18	30°027	29°907	61°	61°	58°	66°	482	503	88	94	ESE 1	Calm 0	10	10	0.030	
19	29°797	884	62°	61°	59°	69°	528	537	94	97	SSW 2	SW 1	10	10	0.050	
20	772	623	68°	64°	60°	72°	548	545	79	92	S 2	S 5	4	10	0.020	
21	662	680	64°	59°	59°	68°	461	483	75	93	W 5	SW 2	4	9	0.140	
22	29°681	29°872	64°	52°	52°	67°	416	340	69	85	WSW 3	W 1	4	1	0.020	
23	30°059	30°195	60°	47°	47°	65°	305	268	57	81	WNW 1	WNW 1	3	0	—	
24	30°185	30°047	57°	57°	41°	60°	342	362	73	77	ENE 1	E 4	4	10	0.660	
25	29°745	29°347	57°	59°	56°	62°	405	505	97	99	E 4	SSW 3	10	10	0.530	
26	815	866	59°	59°	56°	64°	421	491	82	98	WNW 3	SSW 6	8	10	0.640	
27	906	884	61°	60°	59°	64°	451	539	92	98	SW 4	SW 6	10	10	0.340	
28	29°741	805	61°	58°	58°	64°	451	433	83	88	WSW 6	W 3	7	10	—	
29	30°031	972	63°	56°	54°	67°	425	410	73	91	W 1	WSW 2	7	3	0.030	
30	29°883	29°949	59°	56°	56°	66°	436	319	85	87	WSW 3	WSW 2	10	2	0.050	
31	29°952	30°075	60°	49°	49°	63°	374	303	72	87	W 3	W 3	5	1	0.030	
Means	29°894	29°903	61°	57°	54°	66°	436	421	79°	89°	2°	2°	7°	5°	4°	0.000

## St. AUBIN's, JERSEY.

Height above Mean Sea Level, 139 feet. Long. 2° 10' W. Lat. 49° 11' N.  
AUGUST 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	66°	56°	55°	67°	ins.	ins.	70°	92°	N 2	NW 3	8	3	ins.	D a. Very fine. D° p. Very fine. Dead calm at times.
2	29°977	30°089	66°	56°	55°	67°	29°977	30°089	77	73	NW 3	NW 2	5	0	—	
3	30°069	156	62°	55°	55°	66°	30°069	156	70	74	NW 2	NW 1	4	1	—	
4	183	139	64°	58°	52°	66°	183	139	71	87	Calm	NE 1	3	0	—	
5	122	116	65°	58°	53°	70°	122	116	70	75	SE 1	E 2	0	0	—	
6	30°111	30°056	66°	63°	55°	72°	30°111	30°056	67	75	SE 2	S 1	8	8	190	
7	29°992	29°918	67°	64°	61°	74°	29°992	29°918	69	85	S 3	W 4	10	0	375	
8	715	625	63°	62°	58°	69°	715	625	85	85	SSW 4	SW 6	10	9	190	
9	570	663	62°	60°	58°	69°	570	663	86	86	SW 4	SW 3	10	10	1010	
10	782	29°957	60°	59°	57°	67°	782	29°957	88	84	S 2	NW 2	10	2	048	
11	29°956	30°037	62°	56°	56°	63°	29°956	30°037	92	92	NW 2	Calm	0	5	0	
12	30°102	141	63°	55°	55°	67°	30°102	141	92	82	SE 1	E 1	5	0	—	
13	30°105	30°056	62°	59°	52°	70°	30°105	30°056	86	86	E 2	E 2	0	0	—	
14	29°964	29°856	65°	60°	55°	70°	29°964	29°856	75	93	E 3	SW 1	9	10	010	
15	29°770	29°890	65°	62°	59°	74°	29°770	29°890	88	88	S 2	Calm	0	7	5	
16	30°000	30°029	69°	62°	59°	71°	30°000	30°029	91	76	S 2	SW 1	9	0	—	
17	004	028	65°	58°	58°	69°	004	028	86	86	SW 2	Calm	0	6	3	
18	076	30°116	64°	59°	57°	70°	076	30°116	78	78	SE 2	Calm	0	7	6	
19	30°070	29°936	67°	60°	56°	76°	30°070	29°936	86	86	SW 3	SW 2	5	9	—	
20	29°907	965	67°	61°	62°	75°	29°907	965	88	88	SE 3	S 4	4	10	140	
21	853	768	72°	66°	63°	79°	853	768	88	88	WSW 5	SSW 4	2	9	250	
22	803	820	65°	60°	58°	72°	803	820	77	82	SW 4	W b. N 2	8	5	012	
23	29°809	29°941	61°	58°	57°	67°	29°809	29°941	80	80	W b. N 2	Calm	0	2	0	
24	30°086	30°227	64°	52°	52°	67°	30°086	30°227	59	59	SE 2	ENE 4	4	10	162	
25	30°196	30°026	62°	61°	51°	65°	30°196	30°026	90	90	E 4	SW 7	8	10	130	
26	29°724	29°507	62°	63°	59°	71°	29°724	29°507	85	90	W 4	SW 2	10	10	031	
27	29°924	30°075	61°	60°	59°	66°	29°924	30°075	82	85	SW 3	SW 4	10	10	—	
28	30°074	30°062	66°	64°	59°	68°	30°074	30°062	80	86	SW 4	SW 1	10	9	017	
29	29°923	29°988	63°	60°	59°	67°	29°923	29°988	87	87	SW 1	Calm	0	10	8	
30	30°098	30°052	62°	57°	56°	68°	30°098	30°052	82	82	SW 4	W 1	4	3	—	
31	003	019	63°	58°	55°	69°	003	019	71	71	W 3	NW 2	7	3	—	
31	30°039	30°126	63°	56°	56°	68°	30°039	30°126	63	63	W 3	NW 2	7	3	—	
Means	29°968	29°980	64°	60°	57°	69°	29°968	29°980	75°	84°	2°	2°	6°	4°	1°	730



## DUBLIN.

Height above Mean Sea Level, 51 feet. Long. 6° 15' W. Lat. 53° 20' N.

AUGUST 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	57°	53°	47°	62°	ins.	ins.	%	%	WNW 3	NW 2	9	4	ins.	Brilliant sunset.
2	30°019	30°000	57°	53°	47°	62°	354	347	76	85	WNW 3	WNW 3	4	2	0.01	
3	0.03	0.08	55°	53°	46°	60°	322	319	73	78	WNW 3	NW 2	10	8	0.03	Warm and fine.
4	0.03	0.04	58°	56°	49°	61°	423	405	87	87	W b.N 3	SE 1	6	7	0.15	
5	0.04	0.02	59°	59°	54°	65°	422	419	84	84	W 2	SSW 1	9	5	—	in squalls from Sd., a.
6	30°005	29°900	64°	60°	52°	67°	446	443	68	85	SSW 2	SE 1	6	7	0.28	
7	29°777	29°681	63°	62°	58°	69°	498	481	85	87	S b.E 2	S 2	7	10	0.116	Wind backing, p.
8	0.385	0.298	60°	59°	58°	66°	488	407	95	82	S b.E 5	S 2	10	6	0.039	
9	0.182	0.371	61°	59°	56°	64°	464	452	84	91	SE 4	NNW 2	8	6	—	Brilliant from sea throughout.
10	0.543	0.730	61°	56°	55°	65°	410	405	75	87	W b.N 3	W 4	6	8	—	
11	29°835	29°904	59°	58°	53°	63°	362	385	73	80	WNW 3	W b.N 3	7	9	—	a. and p. Very bright and warm [during day.
12	30°086	30°130	57°	56°	53°	61°	362	373	77	83	NW 1	SE 1	9	10	—	
13	0.130	0.112	59°	54°	54°	62°	372	378	73	88	E 2	Calm	7	0	—	a. K noon, and sp.
14	30°067	29°957	58°	61°	54°	65°	435	457	88	83	E 2	E 3	10	10	—	
15	29°892	29°854	62°	58°	57°	65°	449	446	79	90	E 3	Calm	8	5	0.060	Brilliant moonlight.
16	0.857	0.807	61°	59°	56°	67°	497	467	92	94	ESE 1	Calm	7	1	0.131	
17	0.850	0.778	60°	59°	54°	62°	490	487	94	97	SE 2	SE 1	10	10	0.242	p. Eclipse well seen.
18	0.905	0.954	62°	60°	57°	68°	480	445	86	84	NW 1	Calm	9	8	0.179	
19	0.923	0.809	61°	60°	60°	64°	498	507	92	96	S 1	S b.E 1	10	10	0.625	Brilliant moonlight.
20	0.691	0.755	62°	63°	60°	70°	545	533	95	90	SSW 1	SW 1	10	8	0.080	
21	0.665	0.497	61°	59°	59°	64°	519	486	95	95	SE 1	WNW 2	10	10	0.249	p. Eclipse well seen.
22	0.491	0.597	58°	56°	56°	65°	414	406	84	88	W 3	W 1	9	9	0.040	
23	29°649	29°894	54°	49°	49°	57°	366	296	87	85	NNW 3	NNW 2	10	3	0.041	Squally at op.
24	30°038	30°099	50°	50°	42°	59°	286	309	78	85	W b.W 3	W 1	2	4	0.020	
25	30°113	30°070	55°	55°	48°	62°	348	396	80	89	W 2	SE 1	5	7	—	Squally at op.
26	29°827	29°567	57°	56°	50°	58°	388	409	80	89	E 4	ENE 5	9	10	0.547	
27	0.828	0.859	56°	54°	52°	61°	387	384	85	91	N b.E 3	SSE 1	6	10	0.162	Squally at op.
28	0.788	0.574	57°	63°	50°	63°	428	500	92	86	E 3	SW 5	10	10	0.020	
29	0.423	0.801	62°	55°	55°	66°	441	369	77	84	WSW 4	NW 3	7	4	0.010	in squalls, a.
30	0.933	0.762	56°	58°	49°	64°	358	391	78	79	WSW 2	SSW 3	6	8	0.220	
31	0.723	0.774	56°	50°	50°	60°	348	295	77	80	W b.S 4	W 4	5	0	0.205	
Means	29°823	29°834	59°	57°	53°	63°	416	409	82°	86°	2°	1°	7°	6°	3°	536

## BIRR CASTLE, PARSONSTOWN.

Height above Mean Sea Level, 182 feet. Long. 7° 55' W. Lat. 53° 6' N.

AUGUST 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	30°061	30°036	54°	51°	50°	61°	344	346	80	92	SW 0.5	WSW 0.5	10	9	0.571	ga.
2	0.101	0.133	56°	53°	50°	62°	343	347	76	85	WNW 0.5	SSW 0.5	6	6	0.008	
3	0.069	0.064	59°	56°	49°	63°	391	422	78	94	SSW 0.5	Calm	8	10	0.051	gp.
4	30°039	30°004	59°	56°	55°	67°	435	411	85	89	S 0.5	SW 0.5	9	3	—	
5	29°954	29°840	62°	60°	54°	70°	449	436	80	84	SE 0.5	SSE 0.5	10	10	0.149	gp.
6	0.704	0.554	62°	61°	59°	69°	517	513	93	96	ESE 0.5	SSW 2	10	10	0.165	
7	0.319	0.201	64°	58°	58°	70°	480	435	80	88	SW 0.5	ESE 0.5	4	10	0.037	gp.
8	0.126	0.434	61°	57°	57°	66°	458	450	86	95	E 0.5	ESE 0.5	10	10	0.256	
9	0.577	0.773	58°	54°	54°	59°	431	387	88	90	W 0.5	NW 0.5	10	10	0.068	gp.
10	29°866	29°990	57°	54°	50°	63°	355	407	74	95	NW 0.5	W 0.5	9	10	—	
11	30°114	30°106	57°	56°	51°	63°	374	372	80	82	WNW 0.5	Calm	0	10	—	gp.
12	0.087	0.060	59°	51°	51°	63°	388	324	76	85	SE 0.5	SE 0.5	9	0	—	
13	30°006	29°930	64°	59°	49°	71°	418	400	69	92	SE 2	Calm	0	1	—	gp.
14	29°845	0.821	62°	61°	57°	67°	472	515	83	95	ESE 1	SE 0.5	10	10	0.195	
15	0.833	0.855	64°	58°	58°	73°	527	480	88	96	SE 0.5	SSW 0.5	10	10	—	gp.
16	0.783	0.754	63°	58°	57°	66°	493	473	84	92	SE 1	SW 0.5	10	10	0.568	
17	0.933	0.930	60°	59°	57°	70°	544	509	92	100	WSW 0.5	SSE 0.5	10	10	0.120	gp.
18	0.868	0.772	64°	61°	57°	66°	579	538	96	98	SE 2	SE 0.5	10	9	0.200	
19	0.667	0.751	64°	59°	59°	71°	557	461	93	92	WSW 0.5	Calm	0	10	0.049	gp.
20	0.633	0.525	61°	59°	58°	64°	520	487	95	97	Calm	NW 0.5	10	10	0.087	
21	0.520	0.616	58°	52°	52°	64°	447	377	91	95	SW 2	NNW 0.5	10	3	0.034	gp.
22	29°708	29°947	54°	45°	45°	59°	360	275	84	90	NW 3	Calm	0	10	0.169	
23	30°007	30°099	54°	49°	38°	62°	300	330	70	95	WNW 1	SW 0.5	6	3	0.068	gp.
24	30°102	30°031	58°	52°	46°	63°	340	320	71	96	SW 1	Calm	0	6	0.162	
25	29°783	29°615	55°	53°	45°	58°	303	393	90	95	NE 2	ENE 1	10	10	0.280	gp.
26	0.860	0.819	58°	54°	51°	63°	411	409	83	98	Calm	Calm	0	7	0.439	
27	0.750	0.562	54°	61°	50°	66°	345	415	96	93	Calm	SW 1	10	10	0.127	gp.
28	0.405	0.843	60°	55°	55°	67°	449	390	85	90	SW 3	W 0.5	8	10	—	
29	0.903	0.739	57°	54°	54°	65°	381	391	81	93	SSW 1	SW 1	10	10	0.473	gp.
30	0.729	0.785	59°	46°	46°	60°	383	294	77	93	SW 3	WNW 1	8	0	0.094	
31	29°860	30°093	54°	45°	45°	61°	331	271	78	90	NW 4	Calm	0	9	0.002	
Means	29°815	29°828	59°	55°	52°	65°	427	412	83°	92°	1°	0°	8°	7°	4°	372

## GLENALMOND.

Height above Mean Sea Level, 529 feet. Long. 3° 40' W. Lat. 56° 27' N.

SEPTEMBER 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	46°	44°	39°	58°	ins.	ins.	%	%	SW 4	W 1	2	5	ins.	Bright cold morning. Lovely day and Fine bright day. [evening.
2	29°879	29°961	50°	42°	32°	58°	275	256	89	86	SE 1	NE 5	1	10	0.280	
3	29°944	29°965	50°	42°	32°	58°	265	246	74	90	SE 1	NE 5	1	10	—	* on hills close by. a. Lovely day.
4	30°025	30°169	47°	48°	36°	58°	253	245	79	71	NW 3	NW 2	1	3	—	
5	0.238	0.237	51°	49°	34°	59°	241	275	65	79	SW 2	SW 3	1	4	—	
6	30°103	29°937	50°	52°	41°	59°	317	378	88	97	SW 5	SW 4	8	9	0.830	
7	29°913	29°950	47°	47°	44°	59°	275	294	86	92	SE 1	E 1	8	7	—	
8	29°988	30°018	49°	47°	34°	57°	234	250	67	77	W 2	W 2	2	2	—	Fine day.
9	30°173	30°169	48°	48°	35°	68°	303	313	90	93	SE 2	E 1	1	8	—	Beautiful day throughout.
10	0.190	0.147	48°	48°	38°	53°	279	296	82	86	SE 2	E 2	7	10	—	Very fine day. Gloomy evening.
11	30°079	29°951	52°	50°	48°	60°	327	318	83	87	E 3	E 3	6	8	0.150	
12	29°787	29°787	51°	55°	49°	54°	309	348	99	98	E 2	SE 2	10	10	0.590	T 3p. Squally a.
13	30.393	30.366	53°	49°	48°	59°	396	334	97	97	SW 3	SE 4	8	8	0.450	
14	0.637	0.416	52°	53°	45°	56°	351	374	88	93	WSW 5	E 1	7	10	0.660	Rough and squally. Beautiful day throughout.
15	29°870	29°870	52°	50°	44°	64°	299	286	76	80	WNW 4	W 3	6	1	—	
16	30°242	30°242	53°	51°	47°	62°	317	271	70	72	NW 4	N 4	6	4	—	Beautiful day throughout. Beautiful day throughout.
17	0.434	0.483	52°	46°	42°	62°	282	283	72	91	NW 1	NW 1	0	1	—	
18	0.860	0.302	55°	57°	43°	67°	321	343	73	73	SW 5	NW 6	8	4	—	Rough and squally a. and p. Day fine.
19	30°088	29°986	53°	48°	47°	61°	337	257	81	74	SW 2	NW 4	7	1	—	
20	29°929	29°908	48°	44°	40°	50°	243	224	73	77	NW 4	N 3	3	8	—	Cold and stormy day.
21	0.958	0.017	47°	44°	39°	54°	214	221	67	76	NW 4	NNW 5	3	7	—	
22	0.990	29°850	47°	50°	44°	56°	233	282	73	79	WNW 4	N 4	7	3	—	Beautiful day. Mild and summer-like.
23	29°944	30°002	47°	46°	43°	57°	222	283	67	91	NW 4	NW 1	4	8	—	
24	30°124	0.159	47°	43°	37°	71°	218	240	86	86	W 2	NW 2	1	7	—	Brilliant day, but overcast evening.
25	0.089	0.150	47°	50°	37°	59°	277	264	86	73	WSW 3	NNW 3	6	8	—	
26	0.287	0.324	51°	49°	35°	62°	270	292	72	83	E 2	W 2	1	10	—	Dull and gloomy. Mild as summer.
27	0.378	0.324	52°	50°	44°	62°	330	332	82	92	Calm 0	Calm 0	10	10	—	
28	0.850	0.278	50°	48°	46°	56°	309	301	86	88	SW 1	Calm 0	8	10	—	
29	0.286	0.315	55°	50°	46°	62°	312	339	72	94	E 1	?	1	8	0.070	
30	30°309	30°266	48°	47°	45°	52°	309	298	93	93	E 2	Calm 0	10	10	—	
Means	30°042	30°047	50°	48°	42°	59°	291	294	79°	85°	2°	2°	5°	6°	3°	0.30



## HAWES.

Height above Mean Sea Level, 800 feet. Long. 2° 11' W. Lat. 54° 18' N.

SEPTEMBER 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.	
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.		
1	ins.	ins.	30°018	51°1	44°0	38°3	54°3	in.	in.	%	%	W	1	Calm	0	3	ins.
2	30°001	30°018	51°1	44°0	38°3	54°3	.274	.274	73	95	W	1	Calm	0	3	10	.120
3	29°933	29°928	53°0	46°3	39°7	60°2	.293	.297	73	95	Calm	0	E	1	9	10	.460
4	29°968	30°177	45°3	44°2	43°1	50°0	.261	.263	87	91	NE	2	Calm	0	10	2	.020
5	30°288	.351	51°8	42°3	36°0	58°5	.285	.259	74	96	Calm	0	Calm	0	1	1	.020
6	30°242	30°087	54°0	51°4	38°1	58°3	.312	.335	74	88	W	2	SW	3	10	10	—
7	29°921	29°937	54°0	45°2	45°0	57°7	.312	.292	74	97	W	3	E	1	10	10	.150
8	29°961	30°062	48°9	39°5	39°2	56°5	.275	.231	80	96	ENE	2	Calm	0	10	0	—
9	30°107	.164	49°2	46°1	35°3	49°5	.277	.288	79	93	ENE	2	E	2	5	0	—
10	.151	30°120	53°0	47°9	43°0	58°9	.307	.287	75	87	ESE	2	E	2	10	5	—
11	30°075	29°992	54°0	52°0	40°2	57°2	.309	.340	74	87	ESE	3	E	1	7	10	.010
12	29°810	.610	53°2	54°0	54°0	63°2	.385	.388	96	93	SE	2	S	3	10	10	.360
13	.610	.650	58°0	52°0	52°0	61°0	.342	.348	71	90	SSW	3	SW	2	9	10	.350
14	.820	.640	55°0	56°0	50°0	59°0	.336	.400	78	90	SW	1	SW	4	10	10	.1700
15	.710	29°878	57°0	51°0	54°0	58°0	.339	.345	73	92	WSW	2	Calm	0	10	10	.770
16	29°908	30°206	55°3	48°2	48°2	57°7	.345	.315	79	94	NNW	2	SW	2	8	1	—
17	30°330	.344	50°4	46°0	43°5	58°0	.309	.311	85	100	WNW	2	Calm	0	4	1	—
18	.427	.504	49°3	45°2	43°9	53°0	.279	.262	80	88	NNE	1	SE	1	10	1	—
19	.388	30°203	53°0	51°1	38°4	58°0	.306	.346	76	92	NW	1	Calm	0	4	3	—
20	30°111	29°975	53°0	52°5	50°0	58°0	.356	.378	88	96	W	1	Calm	0	10	10	.010
21	29°888	.879	47°0	41°2	40°9	52°5	.240	.227	75	89	NNE	2	NNW	2	3	5	—
22	29°883	.994	46°0	41°9	38°0	50°3	.238	.230	77	87	NNE	3	NNW	2	1	1	.050
23	30°003	29°921	47°6	46°1	36°0	54°0	.251	.268	76	86	WNW	1	WNW	2	6	2	.010
24	29°939	30°024	47°4	44°1	44°1	54°1	.235	.268	73	93	N	2	Calm	0	3	10	.020
25	30°110	.232	47°0	38°7	37°7	54°7	.233	.220	73	94	N	2	Calm	0	1	10	—
26	.190	.173	44°9	46°0	34°2	52°1	.263	.306	89	99	Calm	0	Calm	0	10	10	.020
27	.307	.383	53°9	41°0	38°9	63°3	.306	.241	74	94	Calm	0	Calm	0	1	0	—
28	.415	.410	46°4	47°5	32°0	61°0	.281	.283	90	87	Calm	0	Calm	0	7	5	—
29	.374	.332	47°0	46°0	37°0	56°0	.298	.294	93	95	Calm	0	Calm	0	10	10	—
30	.307	.293	50°3	49°5	45°0	54°0	.330	.284	91	81	Calm	0	E	2	10	10	—
Means	30°206	30°260	49°0	47°0	43°8	58°5	.297	.316	86	98	E	1	Calm	0	10	10	—
Means	30°082	30°095	50°8	46°8	41°8	56°6	.296	.297	79°5	92°1	1°5	1°0	7°1	6°2	4°070		—

## WAKEFIELD.

Height above Mean Sea Level, 96 feet. Long. 1° 30' W. Lat. 53° 41' N.

SEPTEMBER 1877.

1	30°038	30°066	54°9	48°7	44°2	60°6	*272	*274	63	80	WSW	2	WSW	1	5	2	*010
2	29°941	29°884	51°2	49°8	39°0	52°6	*319	*331	85	93	W	1	WNW	1	9	10	*970
3	29°905	30°139	47°2	47°2	43°9	54°5	*311	*296	96	92	N	2	Calm	0	10	10	*200
4	30°283	*337	52°2	46°6	40°8	59°1	*287	*298	74	95	Calm	0	Calm	0	2	1	—
5	30°261	30°114	55°2	50°6	43°1	62°2	*299	*301	69	81	W	2	W	1	3	2	—
6	29°958	29°900	55°3	51°2	46°1	58°0	*348	*373	80	99	WSW	1	Calm	0	10	10	*270
7	29°984	30°026	51°4	44°2	44°2	59°8	*317	*263	84	91	NNE	1	Calm	0	9	0	—
8	30°088	*139	54°2	48°4	39°0	59°6	*309	*315	73	93	NNE	2	NNW	1	3	1	—
9	*112	30°103	56°2	52°2	48°4	61°8	*313	*333	69	85	NE	1	ENE	1	6	3	—
10	30°079	29°996	57°1	55°4	49°3	60°0	*369	*369	79	84	E	1	ENE	1	8	10	—
11	29°780	*610	60°7	56°2	52°2	65°8	*418	*415	80	91	SE	1	Calm	0	6	8	*160
12	*674	*757	61°0	56°4	54°2	65°0	*349	*331	65	73	SSW	3	WSW	4	3	1	*010
13	*849	*666	57°2	61°2	51°1	64°8	*378	*406	81	76	SW	1	SW	5	9	10	*020
14	*737	29°909	60°0	54°2	54°2	63°8	*360	*384	69	91	SW	4	NNE	1	5	10	*930
15	29°832	30°138	53°6	52°2	50°7	61°8	*369	*358	90	92	NNW	1	Calm	0	10	0	*010
16	30°305	*306	57°0	51°3	44°3	63°2	*335	*344	72	91	W	1	Calm	0	1	2	—
17	*387	*428	53°2	51°2	49°1	56°0	*311	*319	77	85	NNW	1	NNW	2	8	7	*010
18	*382	30°313	55°1	56°6	44°1	62°8	*318	*379	73	82	Calm	0	Calm	0	2	8	—
19	30°090	29°933	58°2	53°8	52°8	61°4	*388	*358	80	86	WNW	1	Calm	0	6	10	—
20	29°856	*801	50°3	44°2	42°1	56°0	*283	*241	78	83	NNW	1	N	1	7	4	—
21	*854	*960	48°4	46°4	38°0	55°4	*256	*262	76	84	NNW	2	NNW	2	2	5	*010
22	*984	29°915	48°0	48°8	39°5	56°0	*236	*236	71	68	Calm	0	NW	1	2	6	—
23	29°899	30°016	53°2	47°2	44°2	56°0	*255	*273	63	85	NW	2	Calm	0	5	7	*010
24	30°068	*208	50°2	42°3	41°4	56°2	*265	*246	74	92	NNW	2	WNW	1	2	8	—
25	*202	*139	46°1	49°2	35°6	54°0	*268	*324	86	93	Calm	0	Calm	0	10	8	—
26	*305	*354	52°2	43°2	40°0	60°0	*323	*253	83	90	Calm	0	Calm	0	5	0	—
27	*394	*385	41°5	47°0	32°1	57°1	*260	*303	99	94	Calm	0	Calm	0	2	6	—
28	*365	*295	41°1	47°5	34°9	64°1	*256	*322	99	97	Calm	0	W	1	0	10	—
29	*287	*294	50°6	52°4	46°9	60°2	*343	*356	93	90	N	1	Calm	0	10	10	—
30	30°259	30°231	54°0	52°2	44°7	60°6	*336	*355	80	91	ENE	1	ENE	1	0	0	—
Means	30°072	30°079	52°9	50°3	44°3	59°6	*315	*321	78°7	87°6	1°2	0°8	5°3	5°6	2°610		

## KELSTERN.

Height above Mean Sea Level, 388 feet. Long. 0° 7' W. Lat. 53° 24' N.

SEPTEMBER 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.	
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.		
1	ins.	ins.	54.9	42.8	40.9	60.7	.327	.251	76	92	W	1	Calm	0	2	ins.	
2	30.033	30.034	51.1	49.2	40.4	58.0	.316	.348	84	100	SW	1	Calm	0	9	1.364	
3	29.957	29.897	51.1	49.2	40.4	58.0	.316	.348	84	100	NE	2	NW	1	10	1.742	
4	30.270	.383	47.7	42.1	42.1	59.7	.316	.261	96	97	N	1	WNW	1	7	0	
5	30.269	30.148	51.8	47.9	38.7	62.1	.321	.289	83	88	SW	1	SSE	1	3	0	
6	29.976	29.897	49.9	51.1	41.9	58.9	.323	.357	91	95	WSW	1	Calm	0	9	.006	
7	29.912	29.996	52.1	46.7	46.6	57.7	.311	.276	80	87	NE	1	NE	1	9	1	
8	30.062	30.124	54.7	46.1	41.0	58.7	.331	.286	78	92	NE	2	NE	1	7	1	
9	.119	.098	56.8	50.8	46.1	59.0	.349	.358	75	96	E	2	NE	1	3	5	
10	30.075	30.012	55.8	51.0	49.9	62.1	.399	.356	89	95	E	1	ESE	1	7	1	
11	29.842	29.675	60.0	55.2	49.6	67.2	.449	.427	87	98	SE	2	SW	2	7	1.515	
12	.735	.764	59.4	53.4	49.6	62.7	.431	.397	86	97	SW	4	SW	3	5	0	
13	.919	.801	53.0	58.2	49.7	60.9	.374	.447	93	92	SSW	3	SSW	6	10	.074	
14	.785	29.910	58.9	54.9	54.9	66.5	.409	.413	93	96	SW	4	SE	1	9	.808	
15	29.744	30.156	51.9	48.0	47.6	59.8	.384	.330	100	99	NNE	3	N	1	10	.003	
16	30.290	.290	55.0	45.7	41.8	60.9	.355	.298	82	97	NNW	1	Calm	0	2	.007	
17	.324	.419	51.8	51.1	43.9	58.0	.364	.373	94	99	N	2	NE	1	7	.004	
18	.352	30.224	51.3	52.2	45.0	56.6	.346	.391	92	100	NNW	1	NNW	1	9	.025	
19	30.084	29.920	54.8	48.0	48.0	60.7	.385	.335	90	100	NW	1	Calm	0	9	.106	
20	29.817	.790	50.7	42.4	42.4	55.3	.308	.258	84	95	N	2	N	1	7	.070	
21	.792	.889	47.3	42.9	37.8	54.0	.302	.265	93	96	N	1	N	1	6	.114	
22	.949	.893	48.2	46.1	37.9	53.8	.301	.284	90	91	NNW	2	NW	2	1	9	
23	29.874	29.982	51.9	40.0	39.7	55.7	.311	.245	81	99	NW	2	Calm	0	9	.008	
24	30.041	30.178	48.5	38.7	38.7	55.0	.294	.231	87	98	WNW	2	NNW	1	6	.020	
25	.217	.164	45.3	47.0	37.1	50.3	.265	.233	88	100	W	1	SW	1	10	9	
26	.300	.369	51.0	43.4	41.6	59.6	.345	.281	92	100	NNW	1	Calm	0	9	1	
27	.400	.417	54.3	42.4	40.2	57.7	.355	.262	83	97	E	1	Calm	0	0	0	
28	.374	.322	55.0	43.8	37.9	62.7	.339	.278	79	98	SSE	1	Calm	0	0	0	
29	.289	.279	54.0	50.3	39.0	57.3	.361	.360	86	99	NNE	1	ESE	1	7	10	
30	30.272	30.230	52.4	50.2	47.8	58.4	.348	.361	91	100	E	1	NE	1	9	10	
Means	30.063	30.078	52.7	47.6	43.4	58.8	.346	.322	87.1	96.4			1.6	1.0	6.6	4.0	4.973



## HILLINGTON, NORFOLK.

Height above Mean Sea Level, 88 feet. Long. 0° 33' E. Lat. 52° 48' N.

SEPTEMBER 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.		
1	ins.	ins.	55.1	41.1	40.6	62.6	ins.	ins.	74	97	W 4	NW 0.2	1	0	ins.	
2	30.050	30.033	55.8	51.2	37.4	65.1	366	345	71	92	W 3	NE 1	8	8	137	
3	29.963	29.867	59.8	51.2	37.4	65.1	366	345	71	92	W 3	NE 1	8	8	234	
4	29.732	30.013	52.8	50.4	46.2	55.9	369	301	92	83	E 4	NE 4	10	3	008	
5	30.310	30.3	52.8	40.5	40.3	60.1	361	252	90	100	NE 3	Calm 0	10	0	008	
6	30.286	30.139	55.0	46.7	33.7	63.3	339	319	79	100	NW 4	Calm 0	5	8		before ga. D gp.
7	29.991	29.866	57.3	43.8	40.4	65.5	364	286	77	100	W 3	Calm 0	5	1		before ga. D gp.
8	29.874	29.938	55.2	46.7	42.0	61.3	373	288	86	91	NE 3	NW 2	10	2		Chilly wind. Hot sun.
9	30.064	30.042	58.0	46.2	46.1	64.7	369	306	77	98	NE 4	NE 0.5	5	7		
10	30.051	29.987	61.4	48.9	41.8	68.6	410	342	76	99	SE 2	Calm 0	5	4		Very fine and sunny.
11	29.856	29.706	64.3	56.2	48.4	71.6	477	436	80	97	SSE 2	S 3	6	1	130	6.15p.
12	29.781	29.814	61.7	55.9	53.1	67.4	447	418	82	93	SW 4	SW 5	5	1		
13	29.747	29.815	57.9	50.9	50.2	65.0	416	447	87	88	SW 5	SW 8	10	10	170	
14	29.703	29.895	61.9	50.6	50.1	67.4	419	494	77	98	SW 6	SW 3	9	10		
15	30.270	30.134	61.1	48.9	48.5	62.4	358	336	96	97	WNW 3	NW 1	10	0	020	
16	30.270	30.255	57.1	48.7	42.1	63.3	370	318	79	93	NW 1	N 0.5	3	1		
17	29.722	29.736	54.3	53.6	46.5	66.0	384	391	91	95	N 3	N 2	9	10	010	
18	29.734	29.173	52.9	53.2	48.0	60.7	343	391	86	97	N 1	N 3	10	10	120	
19	30.077	29.910	53.9	52.7	50.4	62.2	373	399	90	100	SW 3	NW 3	10	8	183	
20	29.798	29.755	52.2	45.0	45.0	58.7	340	283	86	94	NW 3	NNE 3	10	9	090	
21	29.807	29.840	47.2	43.9	42.2	56.1	296	287	92	100	NE 3	N 1	6	5	196	2.50p. Splendid lunar at night.
22	29.916	29.910	52.4	46.1	43.0	56.2	318	281	81	91	NNW 4	NW 1	4	10	003	
23	29.846	29.934	51.9	44.7	44.2	55.7	330	288	86	97	NW 4	NNW 1	8	3	040	
24	30.015	30.134	50.7	41.2	40.8	56.6	322	250	87	97	NW 3	N 0.5	3	4	044	
25	29.704	29.704	50.7	47.2	35.0	53.8	318	312	86	97	NW 2	SW 0.5	10	10	010	
26	29.704	29.704	48.8	39.9	39.4	62.4	345	244	100	99	NW 0.5	NNE 0.5	10	0		early a.
27	29.704	29.704	48.8	40.1	33.4	62.5	330	246	99	99	NNE 0.5	ENE 1	8	0		ga. and before.
28	29.704	29.704	48.8	40.1	33.4	62.5	330	246	99	99	NNE 0.5	ENE 1	8	0		ga. and before.
29	29.704	29.704	48.8	40.1	33.4	62.5	330	246	99	99	NNE 0.5	ENE 1	8	0		ga. and before.
30	29.704	29.704	48.8	40.1	33.4	62.5	330	246	99	99	NNE 0.5	ENE 1	8	0		ga. and before.
Means	30.048	30.049	55.2	48.3	43.1	62.1	371	329	85.1	96.0	2.8	1.7	7.4	4.4	1.395	

## UPPINGHAM.

Height above Mean Sea Level, 484 feet. Long. 0° 44' W. Lat. 52° 35' N.

SEPTEMBER 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.		
1	30.069	30.043	53.4	45.0	40.4	61.3	311	253	76	85	nwb.w 3	Calm 0	2	1		before ga.
2	29.970	29.883	53.9	49.7	43.1	58.6	321	346	77	97	SW 2	Calm 0	6	7	208	
3	29.750	30.076	50.1	45.1	43.2	58.3	352	284	97	94	N 2	NNE 2	10	10	580	Almost incessant 6a.-10p.
4	30.270	30.355	52.1	45.3	43.4	60.4	314	257	80	85	N 3	NNW 1	3	0		Very gloomy, 1p.-5p.
5	30.009	30.179	52.2	48.0	38.8	60.8	303	302	78	91	W b. S 2	Calm 0	8	8		
6	29.883	29.862	52.9	51.7	41.7	60.3	326	334	82	88	W b. S 1	Calm 0	10	10		before ga. Quickly overcast, 10a.
7	29.883	29.962	52.7	44.7	43.8	56.8	342	264	86	89	NE 3	NEb. N 2	10	2		
8	30.021	30.063	54.2	48.1	40.0	61.8	361	313	86	93	Eb. N 4	NE 2	9	6		Drizzle 11a. Bright p. and evening.
9	30.059	30.056	55.1	48.9	46.5	62.5	371	320	85	93	ENE 3	ENE 1	8	5		
10	30.046	29.990	56.0	53.0	44.2	64.5	402	383	89	95	ESE 1	Calm 0	10	10		before ga.
11	29.813	29.694	62.5	53.9	51.0	64.3	483	387	86	93	SE 4	S b. W 3	7	0	383	Very gloomy a. 2 in showers, 2p.-7p.
12	29.763	29.813	58.5	52.5	51.8	63.9	417	349	85	89	SW 4	SW 4	7	0	016	6p.
13	29.728	29.820	57.0	58.7	48.4	60.0	405	435	87	88	SW 5	SW 7	10	8	051	in squalls, force 7-9, all past night.
14	29.847	29.911	58.5	56.7	55.5	64.0	363	457	74	99	W 4	SSW 1	8	10	176	in squalls, force 8-5, till p.
15	29.727	30.162	58.3	51.9	51.5	61.6	446	341	91	88	W b. S 2	WNW 1	10	1	012	Intense gloom, 9.25a. Sun bright, 1p.
16	30.295	30.275	54.2	50.2	45.1	62.9	361	332	86	92	nwb.w 1	NW 1	1	4		ga. 2 on horizon.
17	30.328	30.397	51.9	50.5	45.3	58.7	316	350	82	95	NNE 3	NEb. N 2	9	10		5.20p.
18	30.370	30.245	48.8	55.2	45.3	59.7	313	363	91	84	nwb.w 1	NNW 3	9	10		before ga.
19	30.113	29.950	53.3	52.9	51.0	56.9	367	375	90	94	NNW 1	nwb.w 1	10	10	030	ga. 2 on horizon.
20	29.844	29.794	49.0	44.6	43.8	52.9	317	260	92	89	NW 1	N b. W 1	10	10		p.
21	29.807	29.889	46.4	43.1	36.5	53.7	269	256	86	92	N b. W 3	N 3	5	1	030	a. Sharp showers of 5p.-6p.
22	29.896	29.972	50.4	46.6	43.4	57.8	284	285	74	84	N b. W 2	N 2	1	10		ga. and before.
23	29.972	30.052	50.4	46.6	43.4	57.8	284	285	74	84	N b. W 2	N 2	1	10		ga. and before.
24	30.052	30.178	50.1	40.9	40.0	55.4	283	235	78	92	N 2	N 1	5	1		ga. and before.
25	29.726	29.726	45.3	47.4	35.2	51.2	254	311	84	94	W b. S 1	NW 1	10	8		ga. and before.
26	29.726	29.726	45.3	47.4	35.2	51.2	254	311	84	94	W b. S 1	NW 1	10	8		ga. and before.
27	29.726	29.726	45.3	47.4	35.2	51.2	254	311	84	94	W b. S 1	NW 1	10	8		ga. and before.
28	29.726	29.726	45.3	47.4	35.2	51.2	254	311	84	94	W b. S 1	NW 1	10	8		ga. and before.
29	29.726	29.726	45.3	47.4	35.2	51.2	254	311	84	94	W b. S 1	NW 1	10	8		ga. and before.
30	29.726	29.726	45.3	47.4	35.2	51.2	254	311	84	94	W b. S 1	NW 1	10	8		ga. and before.
Means	30.063	30.074	52.5	48.9	43.8	59.8	342	321	86.3	91.8	2.1	1.4	7.0	5.8	1.468	

## OSCOTT.

Height above Mean Sea Level, 460 feet. Long. 1° 51' W. Lat. 52° 33' N.

SEPTEMBER 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.		
1	ins.	ins.	53°	47°	41°	61°	ins.	ins.	74	86	W 2	W 0-1	1	0	ins.	Fine day.
2	30°082	30°035	53°0	50°4	44°8	59°1	333	364	82	99	SSW 3	ENE 1-2	9	10	460	8 2 8 ga.
3	29°749	29°838	53°3	50°4	44°8	59°1	333	364	82	99	SSW 3	ENE 1-2	9	10	460	8 2 8 ga.
4	29°786	30°121	47°1	44°7	43°7	51°2	322	284	99	96	NNE 5	NW 2-3	10	10	930	
5	30°299	30°350	51°0	46°1	40°2	58°6	301	266	81	86	NW 2	NNW 2	0	0		Fine day.
6	30°304	30°164	53°5	50°0	39°9	62°1	336	309	82	86	WSW 2	SW 2	1	9		8 ga.
7	29°989	29°880	53°8	52°7	43°7	61°1	320	344	77	86	SW 3	Calm 0	9	10		8 ga.
8	29°886	29°955	52°1	45°9	45°5	57°3	337	266	86	87	ENE 4	NE 4	7	1		
9	30°030	30°046	51°0	47°9	39°2	60°5	323	288	86	88	ENE 6	NE 3-4	6	0		D ga.
10	30°047	30°041	54°3	49°0	46°2	62°8	352	317	84	92	ENE 3-4	ENE 2	9	0		Fine day.
11	30°027	29°950	51°6	55°0	44°0	59°4	377	395	99	91	E 1	ESE 1-2	10	10		
12	29°760	29°760	54°8	54°8	53°2	63°7	459	381	90	89	SSE 5	S 6	9	1	470	
13	29°736	29°814	58°8	52°9	52°5	64°1	405	346	82	86	SSW 5	SSW 4	9	0	060	
14	29°912	29°801	56°1	57°6	49°0	61°0	415	448	91	94	SSW 5	SSW 7	10	8	040	
15	29°858	29°878	58°8	58°5	50°6	62°8	360	469	73	96	SW 7	SSW 3	5	10	270	
16	29°815	30°209	53°4	51°0	50°5	62°2	368	351	90	94	NW 5	NW 2	10	1	010	
17	30°322	30°316	55°2	50°5	45°8	62°9	365	344	84	94	NW 2	N 2-3	7	3		
18	30°370	30°411	51°6	50°2	43°6	56°2	390	346	76	96	NNE 3	NNE 2	6	4		D ga.
19	30°393	30°254	48°9	52°8	45°2	60°1	390	353	84	88	N 2	NNW 3	9	10		8 ga.
20	30°130	29°959	52°0	51°8	51°1	55°2	372	307	96	95	WNW 3	NNW 2	10	9	080	
21	29°845	29°806	48°3	46°3	46°2	53°5	326	263	97	85	ENE 1	NNE 2	10	10		a.
22	29°848	29°928	44°8	42°8	36°6	55°2	237	240	80	88	N 3	N 2	6	0		D ga.
23	29°972	29°972	46°9	45°6	36°4	54°2	238	265	75	87	N 2	W 2	9	10	040	
24	29°910	29°090	51°0	46°0	45°6	54°2	343	274	92	89	NW 3	Calm 0	9	8		
25	30°063	30°183	50°1	42°4	42°3	55°7	270	243	75	90	NNE 2	NNE 1	9	9		Fine day.
26	29°213	29°171	46°8	48°2	38°2	52°1	282	312	88	93	SSE 0-1	W 2	10	9		ga. during day.
27	29°283	29°332	49°0	50°0	45°1	62°3	330	339	95	92	N 1	N 1	9	0		ga. in evening. 8 ga.
28	29°392	29°369	50°2	49°1	40°2	61°1	335	316	92	94	NE 2	ENE 1	8	10		ga. Noon.
29	29°358	29°286	53°1	49°9	45°0	63°4	310	287	77	81	E 2	ESE 0-1	0	0		ga. Day very fine.
30	29°268	29°210	45°1	51°0	39°2	61°1	300	351	100	94	NE 1	ENE 2	10	8		ga. all the morning. Fine
30	30°226	30°188	50°0	48°4	45°1	62°5	345	320	96	94	ENE 2	ENE 1	9	0		[in afternoon.
Means	30°070	30°070	51°7	49°6	44°5	59°2	331	324	86°1	90°5	2°9	2°2	7°5	5°3	2°360	



## HEREFORD.

Height above Mean Sea Level, 274 feet. Long. 2° 45' W. Lat. 52° 5' N.

SEPTEMBER 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	55.9	46.7	41.7	61.9	ins.	ins.	68	85	W 1	Calm	4	3	ins.	
2	29.943	29.816	53.0	50.9	46.0	58.2	318	355	79	95	SW 1	Calm	10	10	740	
3	29.810	30.161	47.4	46.6	44.7	51.8	309	262	95	83	N 1	N 1	10	4	510	
4	30.317	30.377	52.9	46.2	40.1	59.6	276	234	70	76	Calm	Calm	0	0	0001	
5	324	30.186	51.5	46.5	34.7	61.8	302	272	79	87	Calm	Calm	8	0	—	
6	30.005	29.884	55.4	51.9	40.2	63.0	325	346	74	90	Calm	Calm	2	10	—	
7	29.866	29.929	52.7	49.1	45.3	59.2	344	280	86	80	E 1	E 1	10	0	—	
8	30.021	30.025	53.1	49.9	41.1	60.0	285	293	71	82	ESE 1	ESE 1	2	3	—	
9	027	30.015	55.5	52.2	48.7	62.0	334	328	77	84	E 1	E 1	9	3	—	
10	30.010	29.912	55.9	58.1	48.6	63.5	367	403	83	82	Calm	S 1	10	10	—	
11	29.715	30.040	60.3	55.5	55.0	61.8	453	377	87	86	S 2	S 1	10	2	380	
12	753	837	59.2	55.5	53.8	64.8	370	322	74	74	SW 2	SW 1	8	3	145	
13	915	810	57.6	59.8	49.9	62.9	431	415	90	81	SW 2	SW 3-4	10	5	000	
14	911	29.852	60.0	60.1	57.2	63.2	396	470	76	91	WSW 1	WSW 1	7	10	154	
15	29.897	30.226	56.9	50.1	50.1	64.9	353	299	76	83	NNW 2	Calm	8	1	002	
16	30.340	323	55.1	51.9	42.1	62.8	335	308	77	80	Calm	NNW 1	0	3	—	
17	385	409	52.2	52.8	46.3	57.9	316	325	81	81	Calm	Calm	10	10	—	
18	399	30.276	52.1	52.4	48.3	61.8	292	331	74	85	NE 1	Calm	8	2	—	
19	30.158	29.964	54.3	54.2	48.1	60.5	349	365	82	87	N 1	N 1	10	1	—	
20	29.781	814	55.7	49.1	49.1	57.6	370	285	84	82	Calm	Calm	10	10	—	
21	29.883	957	46.7	42.7	38.7	54.4	234	235	74	85	N 2	Calm	1	0	—	
22	30.018	999	48.0	44.3	39.6	55.8	230	251	69	86	N 1	Calm	1	8	—	
23	29.936	29.997	53.3	47.5	44.1	57.9	313	261	76	80	NW 2	N 1	9	1	—	
24	30.072	30.187	52.6	47.7	41.2	57.6	313	252	78	77	Calm	NW 1	1	4	—	
25	238	199	48.5	49.4	38.8	54.8	283	329	84	94	Calm	Calm	9	10	—	
26	290	356	55.4	46.9	42.3	62.1	323	297	74	93	Calm	Calm	4	8	—	
27	404	362	46.0	50.3	38.0	60.6	298	330	97	91	Calm	Calm	10	6	—	
28	361	280	44.7	46.4	30.0	59.2	292	285	98	91	Calm	Calm	0	1	—	
29	262	196	47.3	49.6	41.0	58.7	317	324	97	92	Calm	Calm	10	1	002	
30	30.222	30.187	48.3	48.2	43.2	58.8	329	319	97	96	Calm	Calm	10	6	—	
Means	30.079	30.075	52.9	50.4	44.6	60.0	325	314	80.9	85.3	0.8	0.5	6.7	4.5	2.018	

## AUDLEY END, ESSEX.

Height above Mean Sea Level, 154 feet. Long. 0° 13' E. Lat. 52° 1' N.

SEPTEMBER 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	30.102	30.051	55.0	45.4	45.2	63.2	327	294	76	97	NW 2	NW 1	4	0	—	
2	30.001	29.892	58.0	48.0	41.1	66.0	321	317	67	95	SW 2	SW 1	0	0	010	
3	29.671	30.016	53.0	48.3	45.2	57.0	377	320	94	97	NE 1	NE 3	10	10	600	T at night.
4	30.268	336	52.7	44.9	44.9	64.6	334	298	84	100	N 2	NE 1	7	0	—	
5	336	30.190	57.2	43.7	35.2	64.0	305	260	65	94	W 1	W 1	0	0	—	
6	30.052	29.922	58.5	47.8	42.8	64.0	322	328	66	98	W 1	Calm	4	4	—	
7	29.880	29.937	55.5	49.2	44.2	60.2	345	317	79	91	NE 2	NE 2	7	0	010	
8	30.024	30.078	56.0	47.5	40.7	63.9	325	211	73	65	NE 2	NE 1	6	0	—	
9	039	30.033	57.2	48.3	46.6	63.0	357	313	76	93	NE 2	Calm	8	0	—	
10	30.037	29.930	62.8	54.7	45.2	67.8	401	386	71	91	NE 1	NE 1	7	4	—	
11	29.870	786	66.4	56.5	53.1	70.0	494	415	77	91	SE 2	SW 2	5	0	200	T in day.
12	29.864	918	61.3	55.2	54.0	66.0	418	433	77	100	SW 3	SW 2	7	0	100	
13	30.004	912	59.0	61.5	50.9	64.0	436	447	88	83	SW 2	SW 3	10	10	020	
14	29.922	29.926	63.6	60.0	58.8	69.4	477	483	81	94	W 3	W 2	7	10	030	
15	29.775	30.207	62.5	53.0	50.1	63.0	428	374	77	97	W 2	NW 1	8	0	—	
16	30.315	288	52.8	49.7	43.2	63.8	353	321	88	90	NW 1	NW 1	4	5	—	
17	292	381	54.0	53.5	45.2	57.8	338	399	81	97	N 2	N 2	9	8	010	
18	362	30.241	50.9	54.8	48.2	58.8	352	360	95	84	N 2	N 2	10	10	010	
19	30.119	29.928	53.7	50.2	49.1	58.2	378	356	92	98	N 1	NW 2	10	10	050	
20	29.859	784	50.0	47.0	46.2	50.2	348	288	97	90	NW 1	NW 1	10	10	030	
21	804	876	46.4	40.6	37.9	53.6	259	244	83	97	N 2	NW 1	5	0	040	
22	961	919	48.0	46.4	38.7	55.0	286	268	86	86	NW 1	NW 2	5	6	—	
23	29.895	29.979	50.7	44.9	44.5	57.0	338	281	92	95	NW 2	NW 1	8	7	010	
24	30.041	30.169	50.8	35.9	35.2	56.0	303	204	82	97	N 1	N 1	6	0	—	
25	246	188	48.0	48.0	31.0	54.0	274	309	83	93	N 2	SW 1	5	10	010	
26	291	374	49.0	42.7	42.3	57.2	335	269	97	98	NW 1	Calm	10	0	—	
27	413	406	45.0	39.4	36.0	61.0	299	233	100	97	Calm	Calm	0	0	—	
28	385	316	45.2	41.6	32.0	59.7	297	254	99	96	NE 1	Calm	0	5	—	
29	291	241	47.6	44.7	38.2	63.0	328	284	100	96	Calm	Calm	10	0	—	
30	30.222	30.206	57.0	42.8	41.6	61.1	371	260	80	95	NE 2	Calm	4	0	—	
Means	30.078	30.082	54.3	48.2	43.6	61.1	351	318	83.5	93.2	1.6	1.2	6.4	3.5	1.130	

## CARMARTHEN.

Height above Mean Sea Level, 188 feet. Long. 4° 18' W. Lat. 51° 52' N.

SEPTEMBER 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.	
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.		
1	ins.	ins.	58°	48°	40°	62°	ins.	ins.	72	91	W	1	Calm	0	4	1	ins.
2	30° 113	30° 047	58°	48°	40°	62°	346	345	85	96	SE	1	Calm	0	8	10	179
3	29° 919	29° 796	57°	50°	47°	58°	400	358	85	90	N	4	Calm	0	9	0	800
4	29° 886	30° 222	48°	43°	43°	56°	295	257	89	90	N	4	Calm	0	9	0	030
5	30° 337	394	58°	41°	37°	63°	370	244	76	93	Calm	0	Calm	0	3	0	—
6	30° 337	30° 176	54°	44°	36°	62°	351	279	82	94	Calm	0	W	1	9	0	—
7	29° 988	29° 886	61°	48°	40°	64°	421	312	77	94	Calm	0	Calm	0	3	0	—
8	839	864	58°	52°	41°	66°	374	329	77	83	Calm	0	E	4	2	0	—
9	965	983	52°	50°	44°	62°	311	324	79	88	E	2	E	1	4	0	—
10	966	966	59°	56°	49°	62°	407	394	80	87	E	1	E	1	4	10	—
11	959	846	56°	56°	51°	66°	406	443	89	97	SE	1	SE	2	10	10	320
12	614	596	59°	57°	56°	63°	485	457	97	96	SE	1	SW	2	10	6	290
13	711	841	58°	56°	54°	64°	441	389	90	87	SW	4	W	3	9	1	310
14	864	781	57°	59°	51°	62°	459	483	99	96	SW	5	SW	5	10	10	700
15	934	29° 835	59°	59°	55°	62°	421	498	82	99	W	2	SW	1	10	10	680
16	29° 966	30° 250	55°	51°	51°	63°	406	356	93	95	N	1	Calm	0	9	0	010
17	30° 349	326	57°	51°	46°	65°	391	340	82	88	E	1	N	1	10	0	—
18	363	414	57°	51°	40°	65°	369	324	78	85	E	1	N	1	0	9	—
19	394	284	56°	52°	48°	65°	362	358	79	89	Calm	0	N	1	1	0	—
20	30° 177	30° 002	55°	53°	43°	59°	401	406	92	98	NW	1	Calm	0	10	10	020
21	29° 865	29° 809	59°	50°	49°	63°	400	293	78	82	N	1	N	1	5	8	—
22	29° 888	29° 961	53°	44°	39°	54°	298	248	73	84	Calm	0	NE	1	1	0	—
23	30° 039	30° 045	51°	47°	36°	58°	306	308	79	95	Calm	0	Calm	0	5	9	020
24	003	022	54°	51°	36°	60°	364	355	87	94	NW	2	Calm	0	9	9	—
25	098	185	51°	46°	46°	62°	358	316	94	100	Calm	0	Calm	0	9	0	—
26	250	223	46°	50°	40°	58°	305	309	95	100	Calm	0	Calm	0	10	10	030
27	301	353	57°	49°	46°	64°	400	330	83	95	N	1	Calm	0	6	0	—
28	380	351	51°	50°	41°	65°	327	357	87	98	E	1	Calm	0	0	0	—
29	335	263	50°	48°	41°	64°	330	317	91	95	E	1	Calm	0	0	0	—
30	218	156	55°	49°	42°	64°	370	343	84	97	Calm	0	E	1	0	4	—
31	30° 159	30° 159	48°	46°	46°	62°	364	331	90	96	E	1	Calm	0	9	0	—
Means	30° 074	30° 068	55°	50°	44°	62°	375	348	84°	92°	1°	1	0°	6°	5°	3°	380



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## STRATHFIELD TURGISS.

Height above Mean Sea Level, 195 feet. Long. 1° 0' W. Lat. 51° 20' N.  
SEPTEMBER 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.		
1	ins.	ins.	57.4	46.4	39.6	64.4	ins.	ins.	68	89	NW	1	0	2	ins.	
2	30.128	30.086	57.4	46.4	39.6	64.4	323	277	55	93	NW	1	4	10	ga.	
3	29.691	30.093	52.0	46.0	44.8	60.5	369	264	95	86	SE	1	10	10	720	
4	30.295	30.262	52.7	48.7	42.2	62.4	313	323	79	94	NW	1	2	8		
5	30.352	30.226	54.8	48.4	36.3	65.8	303	299	71	89	NW	1	0	2		
6	30.055	29.907	58.8	49.2	37.1	67.5	410	324	83	93	SW	1	0	0		
7	29.849	29.875	59.0	52.6	45.0	65.9	355	312	71	78	SE	1	0	0		
8	29.602	29.699	55.5	51.9	44.3	61.2	296	293	68	76	E	2	1	1		
9	29.979	30.017	59.6	53.4	50.2	65.7	365	325	72	80	E	2	1	1		
10	30.031	29.990	56.7	54.0	47.1	66.8	407	388	88	93	E	2	1	1		
11	29.816	29.772	63.6	57.3	53.6	66.5	464	394	70	83	SW	2	1	8		
12	29.871	29.877	60.0	55.9	55.2	64.2	396	382	76	86	SW	2	1	8		
13	30.024	29.973	60.5	60.0	51.6	62.2	415	424	79	82	SW	2	1	8		
14	29.961	29.982	62.0	59.8	52.3	64.5	487	446	88	87	W	2	1	8		
15	29.834	30.212	59.8	50.8	50.7	64.9	410	324	80	87	W	2	1	8		
16	30.342	29.988	50.1	52.4	42.0	65.4	333	328	92	83	N	1	10	0		
17	30.342	29.988	50.1	52.4	42.0	65.4	333	328	92	83	N	1	10	0		
18	30.366	30.268	53.4	49.9	46.7	61.4	323	303	79	85	N	1	10	0		
19	30.163	29.975	55.1	54.5	48.7	60.5	378	365	87	86	NW	1	10	0		
20	29.852	29.799	55.1	46.3	45.8	57.2	377	290	87	93	Calm	0	10	10		
21	29.828	29.903	46.1	39.8	36.7	57.5	244	228	79	94	N	1	2	0		
22	29.975	29.999	47.8	40.4	38.0	57.9	261	222	79	89	N	1	0	0		
23	29.939	29.982	51.6	46.0	39.4	56.5	292	296	76	96	W	1	0	0		
24	30.071	30.182	50.3	42.4	42.1	59.8	304	262	83	97	NE	1	10	2		
25	29.600	29.614	44.5	48.9	30.7	57.7	257	313	88	91	N	1	10	2		
26	29.602	29.614	44.5	48.9	30.7	57.7	257	313	88	91	N	1	10	2		
27	29.602	29.614	44.5	48.9	30.7	57.7	257	313	88	91	N	1	10	2		
28	29.602	29.614	44.5	48.9	30.7	57.7	257	313	88	91	N	1	10	2		
29	29.602	29.614	44.5	48.9	30.7	57.7	257	313	88	91	N	1	10	2		
30	29.602	29.614	44.5	48.9	30.7	57.7	257	313	88	91	N	1	10	2		
Means	30.086	30.089	54.0	49.4	43.3	62.7	342	317	81.7	89.3	1.1	1.1	7.3	5.0	1.348	

## RAMSGATE.

Height above Mean Sea Level, 105 feet. Long. 1° 25' E. Lat. 51° 20' N.  
SEPTEMBER 1877.

1	30.137	30.087	56.9	52.0	45.0	63.3	305	294	66	76	W	4	2	4		
2	29.987	29.869	58.3	57.0	46.6	63.3	425	317	87	68	SW	2	5	1		
3	29.630	29.842	53.2	55.1	53.1	63.8	340	404	84	93	E	2	10	10		
4	30.188	30.337	55.0	49.5	49.1	60.1	328	306	76	87	NW	5	10	2		
5	30.107	30.176	55.0	50.2	47.2	63.1	277	288	65	80	NW	3	10	2		
6	30.014	29.866	59.6	54.9	45.4	63.7	340	358	67	83	SW	2	10	2		
7	29.794	29.838	58.8	56.9	49.9	64.0	322	396	65	86	NE	1	10	10		
8	29.893	29.976	54.5	58.9	54.3	60.5	336	301	79	60	NE	6	10	6		
9	29.950	29.973	58.7	58.7	57.1	63.3	296	342	60	70	NE	6	10	10		
10	30.014	30.007	61.0	58.3	57.0	69.0	437	410	82	86	NE	2	10	10		
11	29.883	29.812	61.7	58.0	58.0	68.0	457	446	84	92	SE	2	10	10		
12	29.904	29.933	63.0	57.9	51.1	64.7	418	412	73	86	SW	6	10	10		
13	30.044	29.977	62.4	61.6	55.9	64.3	441	441	79	81	SW	5	10	10		
14	29.933	29.995	63.0	59.5	59.0	65.5	485	457	84	90	SW	6	10	10		
15	29.791	30.143	62.0	57.3	56.0	66.0	500	364	90	77	SW	6	10	10		
16	30.273	29.226	57.4	56.3	48.2	64.3	378	321	80	70	NW	3	10	8		
17	29.225	29.284	54.2	57.6	52.0	61.8	333	338	78	71	NW	4	10	9		
18	29.291	30.186	55.8	53.8	52.1	61.6	399	351	89	84	NW	4	10	9		
19	30.058	29.905	55.0	54.9	52.9	59.2	349	412	81	95	NW	2	10	10		
20	29.777	29.721	53.5	49.8	49.5	55.2	329	279	80	79	NW	4	10	10		
21	29.720	29.812	51.4	48.9	46.7	56.4	289	289	77	84	NW	4	10	10		
22	29.883	29.919	53.8	49.5	45.2	58.7	304	270	73	77	NW	3	10	4		
23	29.851	29.936	53.0	48.9	44.6	58.5	325	289	81	84	W	4	10	1		
24	29.993	30.114	51.7	48.3	44.7	57.5	293	254	77	75	NW	4	10	1		
25	30.181	29.194	51.8	47.7	45.1	56.2	284	256	74	78	NW	2	10	1		
26	29.253	29.326	54.7	47.9	46.6	60.0	301	313	70	95	W	1	10	2		
27	29.383	29.357	53.6	52.9	44.5	61.5	403	308	98	77	Calm	0	10	2		
28	29.328	29.262	59.2	54.3	51.6	64.0	351	340	70	80	E	2	10	2		
29	29.223	29.191	58.7	55.2	52.9	61.4	356	328	73	75	NE	2	10	2		
30	30.173	30.133	58.7	55.0	54.5	61.9	342	394	70	91	NE	4	10	1		
Means	30.036	30.047	56.9	54.2	50.5	62.0	358	343	77.1	81.0	3.4	2.7	6.1	5.1	1.389	

## SEPTEMBER.

## HASTINGS.

Height above Mean Sea Level, 172 feet. Long. 0° 38' E. Lat. 50° 52' N.  
SEPTEMBER 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.		
1	ins.	ins.	57.0	51.9	44.2	63.0	ins.	ins.	68	82	WNW 3	W 1	1	10	ins.	to E. in the evening. to N.E. in the evening.
2	30.114	30.082	57.0	51.9	44.2	63.0	317	316	68	82	SW 1	S 1	3	0	480	
3	30.028	29.890	58.0	55.9	48.1	63.0	352	339	73	77	NE 1	NW 5	10	10	140	
4	29.637	29.905	54.2	52.1	51.1	58.5	415	352	99	90	NNW 4	NNE 1	10	5	—	
5	30.245	30.346	52.1	50.7	47.9	61.5	331	290	84	79	Calm 0	Calm 0	0	0	—	
6	30.245	30.224	54.0	50.7	46.1	62.4	289	272	69	74	NE 0-1	NE 2	7	10	—	
7	30.057	29.898	56.2	54.3	47.5	65.0	323	328	71	78	NE 3	NE 6	8	9	030	
8	29.840	29.834	59.5	53.8	49.3	62.5	388	360	76	87	ENE 6	ENE 6	2	10	015	
9	29.920	29.958	57.6	58.3	52.5	59.8	317	325	67	66	ENE 6	NE 1	10	1	—	
10	29.951	29.976	57.1	57.8	51.9	61.0	340	444	72	93	NE 1	SSE 1	10	6	—	
11	30.013	30.016	61.3	57.2	53.0	66.6	439	418	81	89	SSE 1	SW 4	8	0	210	
12	29.880	29.832	62.3	60.0	56.8	68.5	473	449	84	87	SW 5-6	SW 6	7	0	—	
13	30.062	29.969	61.9	59.9	58.0	64.8	422	419	76	82	SW 5-6	SW 6	10	10	—	
14	30.032	30.033	60.9	61.5	56.6	63.4	465	473	88	87	SW 5-6	SW 6	10	10	—	
15	30.068	30.029	61.3	60.5	59.6	62.8	492	475	91	90	sw-WSW 6-7	SW 6	10	10	015	
16	29.852	29.821	61.5	56.0	54.2	63.5	514	355	95	79	SW 7	N 0-1	8	1	—	
17	30.284	29.266	58.7	54.9	48.6	65.0	360	345	74	80	N 1	N 1	0	10	—	
18	29.260	29.293	54.0	53.4	47.1	59.0	317	382	75	94	N 6-7	NNE 5	1	10	030	
19	30.314	30.224	54.8	52.5	49.6	60.5	365	319	86	81	N 4	NNE 1	8	10	—	
20	30.119	29.944	54.4	54.0	51.1	56.8	379	366	90	87	N 2	NW 1	10	10	010	
21	29.849	29.770	52.1	48.1	47.4	54.6	355	289	91	86	WNW 1	NNE 2	10	10	110	
22	29.774	29.851	47.4	43.7	39.6	57.0	285	245	85	79	N 4-5	NNW 3	0	0	—	
23	29.914	29.960	48.0	45.6	39.3	57.8	281	238	85	79	NNE 5	NNW 1	0	0	—	
24	30.029	29.963	50.3	45.4	42.8	56.0	302	269	83	89	NW 4	NNE 1	10	0	—	
25	30.031	30.146	50.1	44.4	42.7	57.0	285	246	79	84	N 3	N 2	9	0	—	
26	29.235	29.220	49.0	48.8	39.7	55.8	262	252	75	73	N 3	N 0-1	1	10	—	
27	29.268	29.339	55.9	50.4	47.4	62.4	323	305	72	84	N 1	NE 1	1	0	010	
28	29.386	29.369	54.0	47.8	45.5	60.4	351	288	84	87	NE 1	NE 3	0	0	—	
29	29.345	29.790	54.2	49.4	45.0	59.0	342	309	81	89	NE 2	NE 3	1	0	—	
30	29.225	29.184	55.7	55.9	46.1	60.8	348	386	78	87	NE 4	NE 4-5	0	0	010	
30	30.174	30.153	55.8	50.0	46.9	61.5	361	339	81	94	NE 2	NE 4-5	0	0	010	
Means	30.066	30.071	55.6	52.8	48.5	61.0	360	340	80.5	84.0	3.2	2.7	5.2	4.7	1.070	



## BABBICOMBE, DEVON.

Height above Mean Sea Level, 293 feet. Long. 3° 31' W. Lat. 50° 29' N.

SEPTEMBER 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	58.3	49.5	44.0	62.7	ins.	ins.	66	86	NW 1	Calm 0	3	3	ins.	before 9a. [= 1.12 inches.
2	30.102	30.103	58.3	49.5	44.0	62.7	30.102	30.103	66	86	NW 1	Calm 0	3	3	ins.	before 9a. Rainfall 6.30p.-11.30p.
3	30.085	30.085	56.1	50.3	44.3	63.7	30.085	30.085	82	94	SW 1	SW 2	9	10	1.140	0.15a. Squalls a. and p.
4	30.084	30.100	52.9	46.7	46.7	54.8	30.084	30.100	77	85	NNW 4	N 1	9	0	—	Fine day.
5	30.347	30.360	57.4	46.2	42.9	62.3	30.347	30.360	63	88	NNW 2	Calm 0	1	0	—	before 9p. D after 9p.
6	30.214	30.214	55.7	48.0	40.0	62.6	30.214	30.214	71	87	ENE 1	WNW 2	0	2	—	2p. p. D at night.
7	30.036	30.036	57.0	53.1	40.6	60.8	30.036	30.036	68	82	NE 1	Calm 0	1	3	—	9a. and before. D after 8p.
8	30.828	30.828	57.8	54.8	51.2	61.0	30.828	30.828	69	81	ENE 3	NE 7	5	3	0.200	in squalls a.
9	30.854	30.854	52.0	52.6	51.1	57.1	30.854	30.854	82	88	ENE 8	E 6	10	10	0.300	
10	30.954	30.954	52.7	56.8	52.2	56.9	30.954	30.954	95	84	ENE 4	E 2	10	10	—	
11	30.985	30.985	59.0	58.9	56.2	62.2	30.985	30.985	86	94	SE 2	SSE 4	9	9	0.240	
12	30.728	30.728	58.3	57.1	57.1	63.4	30.728	30.728	97	93	S 3	SW 6	10	9	0.440	Squalls during day. 5.20p.
13	30.862	30.862	59.9	56.9	55.1	62.3	30.862	30.862	79	89	SW 4	WSW 3	6	6	0.040	Squalls during day.
14	30.019	30.019	58.4	58.8	55.9	61.0	30.019	30.019	88	92	SW 4	SW 8	10	10	0.180	in squalls p.
15	30.993	30.993	60.7	59.2	58.3	62.6	30.993	30.993	97	95	SW 2	WSW 4	10	10	0.070	Squalls before 9a. Squalls 9p.
16	30.073	30.073	58.0	53.5	53.5	63.6	30.073	30.073	79	82	NW 3	N 4	9	1	—	Squalls during day. D p.
17	30.346	30.346	58.7	52.9	45.3	64.0	30.346	30.346	71	86	NE 1	NNW 1	0	0	—	D to 9a., and after 7p. 8.0 9a.-1p.
18	30.360	30.360	53.2	52.8	50.6	60.8	30.360	30.360	83	77	NE 2	NE 3	7	10	—	and 6p.-8p. Very fine day.
19	30.367	30.367	54.6	51.3	51.2	61.5	30.367	30.367	81	83	NNE 2	N 1	7	1	—	8.0 a., and after 4p.
20	30.182	30.182	59.9	54.2	47.3	67.8	30.182	30.182	74	88	NNW 1	NNW 3	2	10	—	p.
21	30.886	30.886	56.8	52.7	52.6	60.8	30.886	30.886	87	79	W 1	NNE 3	10	10	—	during day.
22	30.872	30.872	48.9	49.0	46.5	56.0	30.872	30.872	72	72	NNE 2	NNE 3	5	0	—	
23	30.018	30.018	50.6	46.3	41.0	57.1	30.018	30.018	84	84	NNE 4	NNW 1	1	2	—	8 a.
24	30.029	30.029	51.2	51.6	43.3	57.2	30.029	30.029	83	85	W 1	NNW 2	10	7	—	Fine day. D after 9p.
25	30.089	30.089	54.8	49.5	46.0	60.4	30.089	30.089	89	86	NNW 1	NNW 1	9	3	—	
26	30.251	30.251	54.8	50.8	44.8	60.8	30.251	30.251	81	93	NW 1	NNW 1	9	10	—	p. D after 9p.
27	30.291	30.291	58.5	49.8	48.2	60.5	30.291	30.291	75	90	NE 2	Calm 0	4	0	—	to 9a. before 9a.
28	30.375	30.375	50.5	55.0	43.4	61.2	30.375	30.375	79	79	NE 2	Calm 0	4	0	—	p. a. and p. p.
29	30.321	30.321	52.2	54.8	50.4	58.3	30.321	30.321	91	79	NE 3	E 3	9	0	—	D 2 9a. and before. p. D
30	30.158	30.158	54.1	55.6	54.0	58.4	30.158	30.158	95	93	E 2	Calm 0	10	10	—	after 9p. [after 9p. Very fine day.
Means	30.089	30.078	55.8	52.8	48.9	60.7	30.089	30.078	80.1	85.9	2.4	2.5	6.5	5.1	2.430	D 8 to 7p. n. all day.

## ST. AUBIN'S, JERSEY.

Height above Mean Sea Level, 139 feet. Long. 2° 10' W. Lat. 49° 11' N.

SEPTEMBER 1877.

1	30.186	30.140	60.0	54.8	49.8	65.9	335	366	64	72	NW	2	Calm	0	7	10	0.001	○ <sup>0</sup> from 2p.
2	30.061	29.831	63.0	58.4	51.8	65.7	316	365	55	75	SW	2	SE	3	6	10	0.517	
3	29.842	30.143	56.7	52.6	49.7	61.2	322	288	70	73	NW	5	NW	4	8	5	0.033	in squalls, a. and p.
4	30.353	40.5	60.1	50.3	49.5	61.9	290	262	56	72	NE	2	N	1	4	0	—	
5	376	30.337	62.4	55.0	48.9	66.8	273	327	48	76	SE	1	NE	2	1	0	—	Extremely fine.
6	30.044	29.868	62.2	57.6	51.4	64.3	340	344	60	73	SE	2	NE	4	0	7	—	Extremely fine a.
7	29.790	699	60.1	58.7	55.0	65.0	394	202	76	59	ENE	4	NE	6	9	10	0.169	in squalls p.
8	770	20.873	57.0	56.2	54.2	59.1	394	425	85	94	ENE	7	E	5	10	10	0.282	n. and a.
9	29.921	30.007	60.9	57.0	55.3	67.2	478	434	90	86	E	1	Calm	0	10	0	0.001	9a. Very fine p. D 9p.
10	30.033	29.984	63.1	62.3	53.9	65.0	470	483	81	83	SE	2	S	2	6	10	0.030	D 2 a. 9.40a.—11.50a. D 0 p.
11	29.818	29.903	61.3	61.0	60.6	68.0	496	410	91	77	SE	2	SW	6	10	0	0.052	Fine and warm afternoon. p.
12	30.017	30.094	62.1	59.8	58.2	68.2	420	426	75	83	SW	5	W	5	4	0	0.031	in squalls a. and p.
13	155	134	62.9	61.5	58.5	67.5	444	433	78	80	SW	4	SW	5	9	2	—	○ <sup>0</sup> 7a.—8a.
14	127	111	64.4	63.3	60.0	70.0	467	451	77	77	SW	4	SW	3	2	4	0.012	
15	043	240	62.2	56.2	55.5	65.9	475	410	85	91	W	3	NW	1	9	1	—	D 9p.
16	320	313	63.7	56.3	55.6	65.0	401	364	68	80	NE	2	NE	1	0	0	—	a. and p. Very fine all day.
17	310	331	59.4	57.1	54.0	62.3	376	345	74	74	NE	3	NE	3	9	10	—	D a.
18	320	209	59.9	55.0	54.1	61.0	353	318	69	74	NE	4	NE	2	8	1	—	
19	30.190	30.032	61.6	55.9	52.0	64.2	412	404	76	90	N	2	Calm	0	1	10	0.003	9a. D 0 9p.
20	29.918	29.757	59.2	56.5	55.8	63.4	408	379	82	83	Calm	0	NW	1	10	10	0.003	
21	835	29.907	54.3	51.6	50.0	57.8	267	265	64	70	NE	3	NE	1	4	4	—	
22	29.076	30.048	52.9	50.1	48.2	57.0	271	225	68	62	NE	3	N	1	5	1	0.001	
23	30.048	030	55.2	54.4	47.2	63.1	347	340	80	80	N	1	Calm	0	10	9	0.376	
24	079	205	54.2	50.4	49.9	58.9	348	242	83	67	NE	1	NE	2	9	0	0.075	
25	268	260	59.9	52.3	48.1	62.9	329	305	64	77	NE	1	Calm	0	0	9	—	9a.
26	308	348	59.2	54.6	51.2	64.9	373	332	74	78	Calm	0	NE	3	7	0	—	a. D 0 p. Very fine.
27	384	336	59.2	54.3	50.2	63.1	308	339	61	80	E	2	NE	2	0	0	—	a. Extremely fine. D 0 p.
28	288	213	57.2	56.5	49.7	62.0	270	251	58	77	ENE	4	NE	3	0	0	—	D 0 a. Extremely fine.
29	172	136	58.7	55.4	48.5	64.7	325	345	66	96	E	2	E	1	0	0	—	D a. and p. Extremely fine day.
30	30.138	30.146	62.6	55.7	52.8	65.6	349	413	62	93	E	3	E	1	2	2	—	p.
Means	30.103	30.100	59.9	56.0	52.7	63.9	368	357	71.3	78.7	2.6	2.3	5.3	4.2	1.575			

## MARKREE CASTLE.

Height above Mean Sea Level, 131 feet. Long. 8° 27' W. Lat. 54° 11' N.

SEPTEMBER 1877.

Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	
1	ins.	ins.	54.4	46.1	38.9	56.9	ins.	ins.	73	93	WNW 3	NW 1	8	5	ins.	pp 9p.
2	30.040	30.040	52.7	45.4	39.4	58.0	30.040	30.040	77	77	N 1	WNW 1	6	1	0.008	
3	30.145	30.145	52.2	39.1	38.1	56.6	30.145	30.145	72	93	N 2	Calm 0	6	0	0.054	9a. D <sup>2</sup> 9p.
4	30.352	30.352	52.3	48.6	34.7	58.9	30.352	30.352	73	87	N 1	Calm 0	5	6	0.006	
5	30.293	30.293	57.8	53.2	44.6	62.1	30.293	30.293	80	93	WNW 2	Calm 0	5	10	0.170	D 9a.
6	30.898	30.898	54.1	50.1	49.9	59.3	30.898	30.898	71	86	SW 2	N 1	10	9	0.056	
7	30.968	30.968	53.7	45.9	36.6	60.4	30.968	30.968	71	86	ENE 3	E 1	2	0	—	pp 9p.
8	30.077	30.077	54.8	44.1	34.3	59.1	30.077	30.077	77	92	E 1	ESE 1	1	0	—	
9	30.013	30.013	56.1	54.7	41.8	61.8	30.013	30.013	75	86	ESE 3	ESE 4	5	10	0.018	D <sup>2</sup> 9a. D 9p.
10	29.812	29.812	58.0	57.2	54.3	60.4	29.812	29.812	86	95	SSE 4	SE 5	7	10	0.246	
11	466	466	56.3	51.5	50.9	61.9	466	466	92	93	SE 3	SE 2	10	10	0.216	K 3p.
12	373	373	55.1	53.1	48.0	60.2	373	373	80	86	S 3	SW 3	4	10	0.534	
13	456	456	56.7	58.0	49.5	64.4	456	456	86	86	SSW 4	SSE 5	10	10	0.042	V 9.30p.
14	29.791	29.791	57.1	53.8	52.7	60.4	29.791	29.791	82	90	W 3	Calm 0	6	0	0.052	
15	30.061	30.061	56.9	46.5	46.2	60.4	30.061	30.061	82	92	WNW 4	Calm 0	8	0	0.008	pp 9p.
16	401	401	50.3	49.1	37.9	62.5	401	401	97	93	Calm 0	Calm 0	0	0	—	
17	470	470	53.5	47.4	36.7	63.9	470	470	84	94	N 1	Calm 0	8	1	0.001	D 9p.
18	470	470	53.9	55.0	36.8	60.3	470	470	82	86	NW 1	NNE 0.5	2	9	—	
19	30.267	30.267	54.1	53.3	51.9	57.4	30.267	30.267	81	92	NW 3	N 3	10	8	0.029	D 9p.
20	30.973	30.973	55.0	49.3	48.9	57.5	30.973	30.973	85	80	NNW 2	NNW 1	9	10	—	
21	30.013	30.013	53.3	43.1	42.3	57.0	30.013	30.013	79	81	NE 1	N 1	6	2	0.020	D 9p.
22	128	128	51.3	50.6	34.3	54.6	128	128	79	72	N 1	N 3	10	10	0.080	
23	060	060	53.1	50.1	48.2	57.4	060	060	84	94	N 2	N 2	7	8	0.023	D 9p.
24	146	146	51.9	43.9	43.3	57.6	146	146	83	95	NE 1	Calm 0	10	10	0.047	
25	225	225	54.1	50.9	43.2	57.0	225	225	85	88	NW 2	NNE 1	8	10	0.010	D 9p.
26	370	370	51.1	53.0	42.1	58.6	370	370	94	93	Calm 0	Calm 0	10	10	0.001	
27	390	390	54.6	53.2	51.1	58.8	390	390	93	93	E 1	E 2	10	10	—	D 9a.
28	304	304	54.1	53.1	49.7	63.5	304	304	90	80	Calm 0	E 1	10	10	—	
29	249	249	54.1	53.8	46.8	61.0	249	249	81	82	E 1	Calm 0	10	10	—	D 9a.
30	30.141	30.141	54.3	51.7	47.9	60.2	30.141	30.141	92	89	ESE 2	SE 2	10	10	—	
Means	30.076	30.070	54.2	50.1	44.1	59.6	352	319	83.6	87.3	1.9	1.4	7.1	7.0	1.649	



BIRR CASTLE, PARSONSTOWN.

Height above Mean Sea Level, 182 feet. Long.  $7^{\circ} 55' W.$  Lat.  $53^{\circ} 6' N.$

SEPTEMBER 1877.

SEPTEMBER 1877.																	
Day.	Barometer.		Air Temperature.				Tension of Vapour.		Relative Humidity.		Wind, Direction and Force.		Cloud Amount.		Rain.	Remarks.	
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Min.	Max.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.			
1	ins.	ins.	55°6	46°4	38°5	59°2	in.	in.	%	%							
2	30°088	29°989	55°6	46°4	38°5	59°2	312	301	70	96	SW	2	W	0°5	7	8	ins. '119
3	29°864	29°977	52°6	47°8	42°3	59°3	326	296	81	89	NNE	1	WNW	1	7	1	—
4	30°153	30°280	54°2	46°4	39°3	59°3	264	284	63	91	NW	2	Calm	0	7	8	—
5	379	399	54°8	49°1	37°0	60°7	323	331	76	95	WSW	0°5	Calm	0	1	8	'002
6	30°338	30°163	57°8	50°7	42°3	61°7	330	345	69	93	WSW	0°5	SW	0°5	7	8	—
7	29°955	29°896	56°7	50°7	45°0	59°2	378	352	82	95	SSW	1	NNW	0°5	8	9	'179
8	29°932	29°978	50°5	49°3	41°7	59°8	328	318	89	91	NNE	0°5	NNE	0°5	10	0	—
9	30°053	30°041	55°6	48°8	40°5	62°5	305	323	69	93	NE	2	N	0°5	4	0	—
10	29°995	29°886	56°0	56°2	43°5	61°9	375	385	83	85	E	1	SSE	3	8	10	'060
11	831	589	58°4	58°5	55°2	60°5	410	468	84	96	SE	3	SE	3	10	10	'170
12	469	443	61°5	54°2	54°2	66°2	458	391	84	93	SSE	1	SSE	1	10	10	'960
13	497	738	57°5	54°0	53°5	61°5	344	377	73	90	SSW	4	WSW	3-4	4	3	'210
14	588	485	59°7	59°6	50°9	64°4	489	415	96	81	SSW	2	SW	3	10	10	'208
15	29°876	29°774	56°6	52°5	52°2	60°5	405	384	88	97	SW	1	NE	0°5	10	10	'644
16	30°114	30°320	59°1	49°0	48°8	65°3	401	340	80	98	NW	0°5	Calm	0	2	0	—
17	420	411	49°6	48°7	40°5	64°5	356	334	100	97	Calm	0	Calm	0	9	0	—
18	463	512	52°1	45°0	42°0	62°4	355	282	91	94	N	0°5	Calm	0	9	0	—
19	482	383	55°8	53°8	38°8	64°7	324	383	72	92	N	0°5	NNW	0°5	0	10	—
20	29°261	30°116	54°6	52°1	49°3	57°3	378	355	89	91	NW	1	NW	0°5	10	10	—
21	29°972	29°919	56°4	49°0	49°0	59°8	358	289	78	83	NW	0°5	NNW	1	10	10	—
22	30°006	30°089	52°3	39°8	39°8	56°1	305	225	77	92	NNW	0°5	Calm	0	6	0	—
23	135	152	52°0	48°6	31°0	55°5	287	292	74	86	NW	1	NW	0°5	2	10	—
24	098	090	52°5	51°4	47°1	56°1	338	359	86	94	NNW	0°5	NNW	0°5	10	10	'028
25	166	231	51°4	50°0	48°0	56°2	343	348	90	97	Calm	0	E	0°5	10	10	—
26	264	287	53°8	51°0	48°8	57°5	378	358	91	96	Calm	0	NW	0°5	10	10	—
27	394	415	54°6	45°0	45°0	57°6	370	294	87	98	Calm	0	NW	0°5	10	9	—
28	409	351	50°0	51°6	41°7	57°8	358	353	99	93	Calm	0	Calm	0	10	10	—
29	327	275	52°2	49°0	49°0	59°6	388	327	100	94	Calm	0	Calm	0	8	—	— after 9p.
30	253	169	44°1	46°2	38°5	60°5	282	295	97	95	Calm	0	ESE	0°5	10	1	—
31	30°147	30°193	53°5	53°0	40°5	61°8	384	403	93	100	SE	0°5	Calm	0	2	10	—
Means	30°098	30°084	54°4	50°2	44°5	60°3	355	340	83·7	92·8		0·9	0·8	7·1	6·8	2·580	

GLENALMOND.

Height above Mean Sea Level, 529 feet. Long.  $3^{\circ} 40' W.$  Lat.  $56^{\circ} 27' N.$

OCTOBER 1877.

OCTOBER 1877.

1	30°244	30°184	45°0	41°1	39°8	62°5	*275	92	96	Calm	o	WSW	2	7	0	—	—
2	30°087	29°996	48°6	46°9	34°5	60°0	*280	99	82	SE	1	Calm	o	1	2	3	—
3	29°979	29°972	42°5	48°0	36°0	58°0	*268	98	99	Calm	o	Calm	o	10	10	—	—
4	30°067	30°230	51°0	53°1	43°0	59°5	*336	90	93	SSW	2	Calm	o	8	10	—	—
5	*367	*505	51°0	45°0	44°5	62°0	*343	92	96	Calm	o	Calm	o	1	9	4	—
6	*621	*570	49°4	50°8	42°0	62°0	*312	94	89	Calm	o	SSE	3	10	2	—	—
7	*422	*290	51°0	55°6	48°5	58°0	*276	92	74	SW	2	NW	3	10	6	—	—
8	*365	*359	46°7	44°0	41°5	61°5	*214	92	68	N	4	N	4	5	0	—	—
9	30°342	30°181	46°1	50°0	35°0	55°0	*260	94	83	NW	1	SW	2	9	10	—	—
10	29°835	29°589	48°3	46°0	39°0	51°5	*366	91	67	SW	3	NW	3	10	2	—	—
11	*561	*538	36°5	37°0	33°5	46°0	*197	92	81	NW	1	W	3	2	3	—	—
12	*674	*775	39°0	38°1	32°7	44°5	*104	90	70	WNW	5	W	1	0	10	—	—
13	*222	*273	42°0	54°2	36°0	57°0	*258	96	86	W	1	S	6	10	5	—	—
14	29°354	*086	52°7	56°8	51°5	61°0	*375	94	93	WSW	3	SW	4	10	10	—	—
15	28°915	29°448	45°0	38°1	33°5	60°0	*211	90	71	WNW	5	W	2	10	3	—	—
16	30°004	30°064	36°7	35°0	32°5	41°0	*147	98	92	NW	3	W	4	2	3	—	—
17	*247	*328	36°3	31°0	30°2	40°0	*158	72	72	NW	4	NW	1	2	3	—	—
18	*245	30°221	39°4	32°0	28°2	47°0	*199	97	83	NW	1	Calm	o	4	7	—	—
19	*124	29°093	38°3	42°0	31°6	43°0	*227	96	99	SE	1	Calm	o	10	9	—	—
20	30°010	*023	42°0	44°5	33°2	48°5	*267	100	100	Calm	o	Calm	o	10	10	—	—
21	29°555	*404	48°6	53°0	44°2	57°0	*343	350	100	87	Calm	o	SW	2	10	9	—
22	*368	*363	49°1	41°3	41°0	54°5	*347	94	99	SW	2	SW	2	9	10	—	—
23	*415	*233	39°2	42°0	36°0	43°5	*236	98	97	WSW	1	WNW	2	8	10	—	—
24	*358	*384	45°5	38°7	34°5	52°5	*249	92	82	E	1	Calm	o	2	9	—	—
25	*382	*547	40°0	40°0	37°0	42°5	*298	94	80	E	3	E	2	10	9	—	—
26	*695	*602	38°9	46°7	33°4	48°0	*211	99	93	Calm	o	Calm	o	10	10	—	—
27	*375	*451	47°2	44°0	34°8	52°0	*315	98	100	SW	3	SW	3	9	10	—	—
28	*784	*926	45°0	39°0	36°5	54°5	*260	94	87	SW	2	Calm	o	5	3	—	—
29	*408	*363	45°2	44°4	36°3	50°2	*302	98	95	Calm	o	SW	2	10	3	—	—
30	*463	*198	48°8	50°1	43°0		*302	355	88	98	WSW	3	SW	3	10	4	—
31	29°745	29°920	47°2	45°8	42°2	53°0	*249	77	64	WNW	3	NW	4	3	0	—	—
Means	29°814	29°824	44°6	44°3	37°6	52°8	*262	*267	87°8	89°1	1°8	1°9	7°3	6°0	7°620		—

$\text{D}^1$  a. Beautiful day.  $\text{D}^2$  9p.

$\text{D}^2$  n. Lovely day.  $\text{D}^2$  9p.

~~~~~ during day.

~~~~~ during day.

$\text{D}^1$  a. and 9p.

Clear and windy day.

Squally day. [rough and squally.]

\* on mountains.  $\Delta$  a. and p. Day

Squally p.

Rough wind.

Rough and squally a. Many boisterous storms of  $\bullet$   $\Delta$  \* through day.

Very fine day.

\* on hills. Lovely day.

Lovely day, bright and frosty.

[1.30 p. Very mild evening.]

~~~~~ 9a. Very sharp squall with  $\bullet$

Much  $\bullet$  and wind.

Rough and rainy day.

Very lovely day.  $\text{D}^1$  9p.

Lovely bright day.  $\bullet$  from 8.30p.

Severe squalls.

Very fine day throughout.  $\text{D}^1$  9p.

[fine evening.]

Bright morning. Squally day. Very

DURHAM.

Height above Mean Sea Level, 335 feet. Long.  $1^{\circ} 35' W.$  Lat.  $54^{\circ} 46' N.$

OCTOBER 1877.

| Day.  | Barometer. |         | Air Temperature. |       |       |       | Tension of Vapour. |       | Relative Humidity. |       | Wind, Direction and Force. |         | Cloud Amount. |       | Rain.  | Remarks. |                          |
|-------|------------|---------|------------------|-------|-------|-------|--------------------|-------|--------------------|-------|----------------------------|---------|---------------|-------|--------|----------|--------------------------|
|       | 10 a.m.    | 10 p.m. | 10 a.            | 10 p. | Min.  | Max.  | 10 a.              | 10 p. | 10 a.              | 10 p. | 10 a.m.                    | 10 p.m. | 10 a.         | 10 p. |        |          | 10 a.                    |
|       | ins.       | ins.    | 51° 9            | 42° 9 | 40° 4 | 59° 0 | in.                | in.   | %                  | %     | N                          | 0° 1    | SSW           | 0° 2  | 1      | 0        | ins.                     |
| 1     | 30° 207    | 30° 155 | 51° 9            | 42° 9 | 40° 4 | 59° 0 | 357                | 203   | 93                 | 95    | Cal                        | 0° 0    | SW            | 0° 4  | 0      | 0        | — a. and gp.             |
| 2     | 054        | 20° 988 | 52° 9            | 38° 9 | 36° 2 | 58° 4 | 323                | 227   | 80                 | 96    | NE                         | 0° 2    | S             | 0° 9  | 0      | 0        | — a. and p.              |
| 3     | 031        | 30° 080 | 41° 0            | 42° 9 | 32° 6 | 53° 3 | 246                | 261   | 96                 | 95    | SSW                        | 0° 7    | S             | 0° 0  | 2      | 0        | — a. and gp.             |
| 4     | 178        | 322     | 47° 0            | 46° 1 | 41° 5 | 56° 4 | 313                | 277   | 97                 | 89    | SSE                        | 0° 5    | W             | 0° 2  | 1      | 0        | — before gp.             |
| 5     | 498        | 617     | 50° 7            | 47° 3 | 37° 8 | 59° 2 | 320                | 314   | 86                 | 97    | S                          | 0° 4    | S             | 1° 0  | 10     | 0        | — in squalls p.          |
| 6     | 664        | 617     | 51° 1            | 43° 4 | 42° 4 | 57° 6 | 340                | 266   | 91                 | 95    | WNW                        | 2° 7    | WNW           | 1° 0  | 10     | 0        | — in squalls a.          |
| 7     | 375        | 232     | 55° 0            | 51° 8 | 42° 1 | 62° 9 | 327                | 338   | 76                 | 87    | N                          | 3° 0    | NNW           | 1° 4  | 2      | 6        | — gp.                    |
| 8     | 242        | 333     | 48° 3            | 41° 8 | 40° 8 | 53° 2 | 228                | 223   | 67                 | 84    | NW                         | 0° 5    | S             | 0° 6  | 10     | 5        | — in squalls p.          |
| 9     | 30° 352    | 30° 197 | 45° 7            | 43° 1 | 41° 2 | 56° 1 | 239                | 252   | 79                 | 90    | SSW                        | 1° 7    | WNW           | 1° 8  | 10     | 10       | 140 in squalls p.        |
| 10    | 29° 006    | 29° 124 | 50° 9            | 48° 7 | 40° 4 | 54° 5 | 295                | 359   | 80                 | 90    | W                          | 2° 3    | W             | 3° 2  | 0      | 10       | 280 in squalls a. Δ p.   |
| 11    | 670        | 659     | 47° 6            | 30° 7 | 37° 6 | 49° 3 | 215                | 228   | 66                 | 93    | W                          | 2° 0    | S             | 2° 6  | 1      | 10       | 374 in squalls a. and p. |
| 12    | 755        | 800     | 46° 1            | 48° 0 | 37° 4 | 50° 3 | 198                | 247   | 64                 | 83    | SW                         | 3° 3    | SW            | 2° 0  | 10     | 10       | 003 in squalls a. and p. |
| 13    | 442        | 536     | 58° 4            | 54° 7 | 39° 9 | 60° 7 | 391                | 352   | 80                 | 83    | S                          | 2° 0    | S             | 5° 5  | 10     | 1        | 018 in squalls p.        |
| 14    | 547        | 417     | 54° 8            | 56° 2 | 52° 1 | 62° 0 | 373                | 367   | 87                 | 81    | WSW                        | 5° 6    | SW            | 0° 6  | 4      | 6        | 320 in squalls a. and p. |
| 15    | 20° 284    | 20° 182 | 50° 0            | 36° 7 | 36° 2 | 60° 2 | 243                | 209   | 68                 | 97    | WNW                        | 1° 2    | WSW           | 2° 9  | 7      | 0        | —                        |
| 16    | 30° 032    | 30° 173 | 42° 2            | 36° 9 | 33° 3 | 47° 3 | 210                | 168   | 79                 | 81    | WNW                        | 2° 0    | W             | 0° 6  | 0      | 4        | —                        |
| 17    | 258        | 314     | 41° 9            | 30° 3 | 30° 3 | 47° 3 | 169                | 139   | 64                 | 94    | WSW                        | 0° 8    | SW            | 1° 0  | 1      | 10       | 050                      |
| 18    | 283        | 30° 217 | 44° 5            | 40° 9 | 28° 1 | 53° 1 | 205                | 238   | 69                 | 94    | SW                         | 1° 2    | S             | 0° 9  | 10     | 10       | 800                      |
| 19    | 138        | 29° 968 | 43° 0            | 48° 7 | 38° 8 | 49° 0 | 273                | 331   | 98                 | 96    | SSW                        | 0° 2    | SSE           | 0° 6  | 4      | 10       | 092                      |
| 20    | 30° 017    | 538     | 51° 3            | 50° 8 | 47° 6 | 59° 0 | 365                | 356   | 97                 | 95    | S                          | 3° 4    | SW            | 0° 9  | 10     | 5        | 110 in squalls a. and p. |
| 21    | 29° 662    | 532     | 47° 3            | 53° 1 | 46° 4 | 54° 2 | 307                | 326   | 95                 | 80    | S                          | 2° 0    | SW            | 2° 7  | 10     | 0        | 202 in squalls a. and p. |
| 22    | 500        | 544     | 52° 8            | 43° 8 | 43° 5 | 56° 4 | 350                | 252   | 76                 | 90    | SSE                        | 2° 0    | WSW           | 0° 8  | 7      | 10       | 694                      |
| 23    | 478        | 184     | 47° 8            | 43° 4 | 37° 5 | 56° 4 | 254                | 232   | 96                 | 94    | NW                         | 0° 1    | W             | 0° 1  | 10     | 10       | 040                      |
| 24    | 353        | 355     | 43° 1            | 41° 0 | 38° 8 | 49° 2 | 267                | 242   | 96                 | 94    | SE                         | 0° 4    | NE            | 0° 9  | 10     | 10       | 078                      |
| 25    | 388        | 406     | 46° 3            | 46° 4 | 40° 9 | 49° 6 | 302                | 304   | 97                 | 96    | S                          | 1° 8    | ESE           | 0° 6  | 10     | 9        | 019                      |
| 26    | 715        | 762     | 46° 8            | 45° 1 | 43° 5 | 53° 1 | 303                | 261   | 95                 | 87    | SSW                        | 4° 4    | SSW           | 3° 4  | 6      | 0        | 012 in squalls all day.  |
| 27    | 536        | 647     | 51° 4            | 45° 5 | 44° 4 | 57° 1 | 307                | 259   | 81                 | 86    | W                          | 2° 5    | SW            | 0° 8  | 1      | 2        | 350 in squalls a.        |
| 28    | 890        | 979     | 52° 3            | 42° 2 | 42° 2 | 57° 0 | 269                | 250   | 70                 | 92    | S                          | 3° 3    | W             | 1° 0  | 10     | 0        | 028 in squalls a. and p. |
| 29    | 475        | 451     | 49° 7            | 49° 1 | 41° 5 | 55° 8 | 346                | 299   | 97                 | 86    | S                          | 2° 9    | SW            | 3° 0  | 9      | 3        | 058 in squalls p.        |
| 30    | 580        | 29° 262 | 52° 1            | 55° 3 | 44° 3 | 57° 1 | 329                | 283   | 84                 | 87    | W                          | 5° 5    | W             | 4° 2  | 2      | 3        | — in squalls all day.    |
| 31    | 29° 876    | 30° 031 | 51° 6            | 48° 0 | 45° 5 | 57° 1 | 246                | 243   | 65                 | 73    | W                          | 5° 5    | W             | 4° 2  | 2      | 3        | —                        |
| Means | 29° 880    | 29° 861 | 48° 9            | 45° 2 | 40° 2 | 55° 2 | 287                | 272   | 82° 6              | 88° 7 | 1° 9                       | 1° 5    | 5° 9          | 4° 9  | 3° 777 |          |                          |

## HAWES.

Height above Mean Sea Level, 800 feet. Long.  $2^{\circ} 11' W.$  Lat.  $54^{\circ} 18' N.$

OCTOBER 1877.

|       | 9 a.m.  | 9 p.m.  | 9 a.m. | 9 p.m. | Min.  | Max.  | 9 a.m. | 9 p.m. | 9 a.m. | 9 p.m. | 9 a.m. | 9 p.m. | 9 a.m. | 9 p.m. | 9 a.m. | 9 p.m. | 9 a.m. | 9 p.m.                                            |
|-------|---------|---------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------------------------------------|
| 1     | 30° 243 | 30° 230 | 50° 0  | 38° 9  | 38° 6 | 63° 1 | *317   | *217   | 88     | 92     | Calm   | 0      | Calm   | 0      | 7      | 0      | —      | D <sup>2</sup> ga. and op.                        |
| 2     | *103    | *034    | 47° 3  | 41° 0  | 31° 4 | 63° 1 | *272   | *239   | 84     | 94     | Calm   | 0      | Calm   | 0      | 0      | 0      | —      | [ ] ga. during day. D <sup>2</sup> op.            |
| 3     | *058    | *127    | 40° 2  | 38° 0  | 31° 0 | 54° 3 | *234   | *225   | 90     | 98     | Calm   | 0      | Calm   | 0      | 0      | 0      | —      | [ ] ga. during day. D <sup>2</sup> op.            |
| 4     | *218    | *373    | 39° 0  | 37° 2  | 31° 8 | 58° 3 | *233   | *218   | 98     | 98     | Calm   | 0      | Calm   | 0      | 10     | 0      | —      | ~ n. and a. D <sup>2</sup> op.                    |
| 5     | *514    | *617    | 46° 7  | 49° 3  | 31° 1 | 56° 8 | *236   | *321   | 75     | 92     | Calm   | 0      | SE     | 2      | 1      | 0      | —      | ~ before ga. [ ] during day. D <sup>2</sup> op.   |
| 6     | *716    | *684    | 45° 2  | 41° 9  | 35° 7 | 54° 2 | *280   | *248   | 93     | 94     | Calm   | 0      | Calm   | 0      | 10     | 0      | —      | ~ before ga. [ ] during day. D <sup>2</sup> op.   |
| 7     | *528    | *336    | 50° 1  | 51° 1  | 41° 1 | 56° 6 | *335   | *323   | 93     | 86     | WSW    | 2      | W      | 3      | 10     | 10     | *020   | ~ before ga. [ ] during day. D <sup>2</sup> op.   |
| 8     | *303    | *375    | 46° 0  | 41° 0  | 40° 3 | 52° 0 | *230   | *190   | 75     | 78     | N      | 3      | SW     | 2      | 7      | 5      | —      | ~ before ga. [ ] during day. D <sup>2</sup> op.   |
| 9     | 30° 412 | 30° 258 | 41° 4  | 45° 7  | 38° 3 | 52° 1 | *226   | *268   | 88     | 88     | Calm   | 0      | SW     | 2      | 10     | 10     | *020   | Cold wind.                                        |
| 10    | 20° 993 | 20° 667 | 47° 7  | 52° 0  | 44° 8 | 52° 0 | *308   | *358   | 94     | 92     | WSW    | 3      | SW     | 5      | 10     | 10     | *330   |                                                   |
| 11    | *773    | *714    | 42° 1  | 43° 1  | 38° 8 | 52° 3 | *224   | *227   | 84     | 81     | W      | 4      | WSW    | 5      | 9      | 2      | *490   | Δ <sup>0</sup> in morning. Δ <sup>0</sup> in day. |
| 12    | *827    | *883    | 42° 5  | 43° 0  | 35° 1 | 45° 2 | *207   | *234   | 77     | 84     | WSW    | 4      | WSW    | 1      | 3      | 10     | 1:140  | Δ <sup>0</sup> before ga. Δ <sup>0</sup> in day.  |
| 13    | *461    | *565    | 54° 9  | 52° 1  | 39° 8 | 54° 9 | *384   | *311   | 90     | 80     | WSW    | 6      | SW     | 7      | 10     | 1      | *060   | all day.                                          |
| 14    | *569    | *301    | 53° 1  | 58° 3  | 49° 9 | 60° 0 | *355   | *362   | 87     | 74     | SW     | 4      | SSW    | 4      | 10     | 9      | *160   | Gusty.                                            |
| 15    | *283    | 80° 350 | 43° 6  | 39° 0  | 60° 0 |       | *236   | *223   | 83     | 84     | WSW    | 5      | W      | 5      | 10     | 6      | *660   | ga. and before. Δ during day.                     |
| 16    | 20° 980 | 20° 380 | 48° 0  | 33° 0  | 33° 0 | 46° 0 | *215   | *177   | 82     | 95     | NW     | 1      | NW     | 1      | 8      | 2      | *090   | Δ during day.                                     |
| 17    | 30° 280 | *360    | 40° 0  | 31° 0  | 31° 0 | 46° 0 | *188   | *160   | 76     | 93     | NW     | 1      | NW     | 1      | 8      | 2      | —      | Δ during day.                                     |
| 18    | *330    | *263    | 30° 0  | 40° 3  | 20° 0 | 48° 0 | *168   | *231   | 95     | 93     | W      | 1      | Calm   | 0      | 0      | 10     | *190   |                                                   |
| 19    | *168    | 30° 027 | 45° 0  | 50° 3  | 39° 1 | 51° 1 | *268   | *352   | 90     | 97     | WSW    | 1      | WSW    | 3      | 10     | 10     | *490   | ~ ga. and before.                                 |
| 20    | 30° 046 | 20° 979 | 52° 8  | 51° 0  | 47° 3 | 58° 0 | *333   | *340   | 83     | 91     | WSW    | 1      | SSW    | 2      | 9      | 10     | *410   | U op.                                             |
| 21    | 20° 714 | *563    | 49° 0  | 52° 0  | 47° 9 | 54° 6 | *317   | *353   | 92     | 91     | SSW    | 3      | SW     | 4      | 10     | 10     | *820   |                                                   |
| 22    | *542    | *596    | 51° 1  | 46° 0  | 45° 7 | 53° 0 | *340   | *230   | 92     | 75     | SW     | 5      | WSW    | 5      | 5      | 4      | *730   |                                                   |
| 23    | *507    | *238    | 46° 7  | 42° 4  | 36° 2 | 48° 0 | *253   | *245   | 80     | 91     | SSE    | 2      | WSW    | 3      | 7      | 10     | *480   | D ga. ~                                           |
| 24    | *376    | *376    | 43° 8  | 42° 0  | 40° 8 | 50° 6 | *248   | *254   | 87     | 95     | W      | 3      | E      | 1      | 10     | 10     | *150   |                                                   |
| 25    | *297    | *464    | 45° 1  | 41° 8  | 41° 1 | 52° 0 | *293   | *256   | 97     | 97     | E      | 1      | Calm   | 0      | 10     | 10     | *010   | ~ on hills all day. ~ D <sup>2</sup> op.          |
| 26    | *733    | *805    | 45° 5  | 45° 1  | 41° 3 | 50° 7 | *280   | *255   | 93     | 85     | Calm   | 0      | SW     | 3      | 10     | 9      | *200   | ~ all day. D op.                                  |
| 27    | *618    | 20° 718 | 48° 4  | 46° 0  | 43° 9 | 53° 1 | *299   | *275   | 89     | 90     | SW     | 4      | WSW    | 4      | 8      | 5      | *470   |                                                   |
| 28    | *925    | 30° 040 | 48° 0  | 43° 0  | 42° 3 | 52° 0 | *275   | *266   | 83     | 96     | W      | 3      | Calm   | 0      | 2      | 0      | *750   | ~ in day. D op.                                   |
| 29    | *515    | 20° 490 | 51° 3  | 50° 0  | 40° 6 | 55° 2 | *367   | *319   | 97     | 89     | S      | 4      | WSW    | 2      | 10     | 8      | *430   |                                                   |
| 30    | *662    | 20° 342 | 50° 0  | 53° 9  | 48° 2 | 55° 0 | *309   | *370   | 86     | 89     | WSW    | 1      | SW     | 5      | 9      | 10     | 1° 080 | ~ in day.                                         |
| 31    | 20° 929 | 30° 016 | 47° 0  | 46° 2  | 44° 1 | 53° 1 | *271   | *241   | 85     | 78     | W      | 5      | W      | 6      | 0      | 0      | *070   | ~ a. and p. ~ ga.                                 |
| Means | 20° 923 | 20° 911 | 46° 0  | 44° 9  | 39° 3 | 53° 7 | *274   | *268   | 87° 3  | 89° 0  |        | 2° 2   | 2° 5   | 7° 3   | 5° 6   | 9° 240 |        |                                                   |



## WAKEFIELD.

Height above Mean Sea Level, 96 feet. Long. 1° 30' W. Lat. 53° 41' N.

OCTOBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks.                                        |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|-------------------------------------------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |                                                 |
| 1     | ins.       | ins.   | 51.2             | 40.2   | 40.1 | 59.8 | ins.               | ins.   | 93                 | 97     | Calm                       | 0      | 10            | 0      | ins.   |                                                 |
| 2     | 30.241     | 30.186 | 51.2             | 40.2   | 40.1 | 59.8 | 34.8               | 24.3   | 93                 | 97     | Calm                       | 0      | 10            | 0      | —      | before ga.                                      |
| 3     | 30.156     | 29.994 | 38.1             | 40.7   | 33.2 | 63.2 | 22.4               | 23.8   | 97                 | 94     | Calm                       | 0      | 10            | 0      | —      | until noon, 6p. and during evening.             |
| 4     | 30.048     | 30.010 | 35.3             | 37.9   | 30.7 | 48.0 | 20.2               | 22.6   | 98                 | 99     | Calm                       | 0      | 10            | 10     | —      |                                                 |
| 5     | 30.223     | 30.136 | 39.9             | 38.7   | 37.4 | 58.2 | 24.4               | 22.9   | 99                 | 97     | Calm                       | 0      | 10            | 2      | —      |                                                 |
| 6     | 30.166     | 30.127 | 40.5             | 41.9   | 33.3 | 59.8 | 24.8               | 26.0   | 98                 | 98     | SSW                        | 1      | 10            | 0      | —      | a. and p.                                       |
| 7     | 30.175     | 30.136 | 41.3             | 44.4   | 37.4 | 56.0 | 25.4               | 26.1   | 98                 | 89     | Calm                       | 0      | 10            | 4      | —      | before ga.                                      |
| 8     | 30.199     | 30.154 | 52.2             | 55.1   | 33.0 | 57.8 | 33.8               | 32.4   | 86                 | 74     | W                          | 3      | 10            | 10     | —      |                                                 |
| 9     | 30.256     | 30.149 | 51.0             | 44.4   | 43.8 | 55.1 | 23.6               | 22.5   | 63                 | 76     | N                          | 2      | 10            | 4      | —      |                                                 |
| 10    | 30.370     | 30.267 | 47.4             | 37.9   | 37.4 | 50.0 | 24.9               | 21.0   | 77                 | 92     | WNW                        | 1      | 10            | 0      | —      |                                                 |
| 11    | 30.035     | 29.716 | 50.2             | 54.2   | 37.8 | 61.5 | 29.4               | 33.6   | 81                 | 80     | Calm                       | 0      | 10            | 2      | —      |                                                 |
| 12    | 29.776     | 29.756 | 49.6             | 45.7   | 44.8 | 55.0 | 24.4               | 24.6   | 69                 | 81     | W                          | 4      | 1             | 3      | —      |                                                 |
| 13    | 29.846     | 29.896 | 48.4             | 46.6   | 42.9 | 54.8 | 23.4               | 23.8   | 69                 | 75     | W                          | 2      | 10            | 7      | —      | Squalls before ga.                              |
| 14    | 29.589     | 29.715 | 60.2             | 56.6   | 42.7 | 64.8 | 39.1               | 33.9   | 75                 | 74     | WSW                        | 3      | 6             | 8      | —      |                                                 |
| 15    | 29.640     | 29.406 | 60.8             | 59.0   | 49.3 | 67.8 | 36.2               | 30.4   | 69                 | 73     | S                          | 2      | 5             | 2      | —      |                                                 |
| 16    | 29.433     | 29.627 | 50.4             | 43.2   | 40.0 | 62.8 | 24.8               | 23.2   | 68                 | 83     | W                          | 6      | 6             | 5      | —      | Wind very rough and boisterous in [past night.] |
| 17    | 30.038     | 30.257 | 44.3             | 38.3   | 37.3 | 47.9 | 21.8               | 18.4   | 74                 | 79     | WNW                        | 1      | 10            | 1      | —      |                                                 |
| 18    | 30.302     | 30.373 | 42.3             | 32.1   | 32.0 | 47.3 | 18.6               | 15.2   | 70                 | 84     | W                          | 3      | 1             | 8      | —      |                                                 |
| 19    | 30.332     | 30.256 | 38.9             | 44.2   | 28.2 | 53.0 | 19.2               | 24.1   | 82                 | 83     | Calm                       | 0      | 10            | 10     | —      |                                                 |
| 20    | 30.189     | 30.063 | 47.7             | 50.2   | 40.9 | 53.2 | 27.2               | 28.6   | 82                 | 80     | Calm                       | 0      | 10            | 4      | —      |                                                 |
| 21    | 30.070     | 30.049 | 48.0             | 51.6   | 46.3 | 58.0 | 30.9               | 34.0   | 93                 | 89     | Calm                       | 0      | 10            | 3      | —      |                                                 |
| 22    | 29.740     | 29.602 | 50.2             | 56.2   | 49.1 | 59.0 | 30.7               | 33.4   | 85                 | 74     | Calm                       | 0      | 10            | 0      | —      |                                                 |
| 23    | 29.673     | 29.647 | 57.2             | 49.8   | 49.5 | 59.2 | 34.3               | 25.8   | 73                 | 73     | S                          | 2      | 6             | 0      | —      |                                                 |
| 24    | 29.575     | 29.567 | 43.2             | 46.2   | 40.3 | 53.5 | 25.1               | 24.9   | 89                 | 81     | S                          | 1      | 0             | 8      | —      |                                                 |
| 25    | 29.384     | 29.366 | 45.4             | 47.2   | 43.1 | 54.0 | 26.2               | 29.6   | 87                 | 92     | W                          | 1      | 3             | 10     | —      |                                                 |
| 26    | 29.301     | 29.446 | 47.0             | 47.6   | 38.4 | 49.9 | 31.3               | 29.2   | 97                 | 89     | Calm                       | 0      | 10            | 8      | —      |                                                 |
| 27    | 29.741     | 29.852 | 43.2             | 48.2   | 40.5 | 53.5 | 27.1               | 26.2   | 96                 | 78     | Calm                       | 0      | 10            | 7      | —      |                                                 |
| 28    | 29.668     | 29.816 | 53.1             | 48.4   | 45.1 | 58.2 | 31.7               | 27.7   | 78                 | 82     | SSW                        | 2      | 8             | 10     | —      |                                                 |
| 29    | 29.981     | 29.045 | 51.8             | 50.2   | 41.2 | 55.0 | 29.8               | 33.6   | 77                 | 93     | W                          | 1      | 9             | 0      | —      |                                                 |
| 30    | 29.602     | 29.573 | 52.6             | 53.3   | 41.9 | 60.5 | 37.7               | 33.9   | 95                 | 83     | S                          | 1      | 10            | 3      | —      |                                                 |
| 31    | 29.695     | 29.403 | 49.2             | 56.4   | 47.7 | 60.6 | 30.5               | 40.6   | 88                 | 89     | Calm                       | 0      | 10            | 10     | —      |                                                 |
| Means | 29.954     | 29.933 | 47.8             | 47.0   | 40.5 | 56.6 | 27.7               | 27.4   | 83.1               | 84.0   | 1.3                        | 1.2    | 5.8           | 4.4    | 2.930  |                                                 |

## KELSTERN.

Height above Mean Sea Level, 388 feet. Long. 0° 7' W. Lat. 53° 24' N.

OCTOBER 1877.

|       |        |        |      |      |      |      |      |      |      |      |     |     |     |     |       |                                         |
|-------|--------|--------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-------|-----------------------------------------|
| 1     | 30.217 | 30.194 | 51.3 | 42.2 | 42.0 | 56.0 | 36.7 | 26.9 | 97   | 100  | NE  | 1   | 9   | 0   | —     | 8 ga. and before. $\approx$ during day. |
| 2     | 30.094 | 30.015 | 51.7 | 43.9 | 36.9 | 60.6 | 31.9 | 27.7 | 83   | 97   | NNE | 1   | 0   | 0   | —     | $\approx$ before ga. Very fine day.     |
| 3     | 30.036 | 30.110 | 52.8 | 43.8 | 40.0 | 58.0 | 34.3 | 28.6 | 85   | 100  | ESE | 1   | 1   | 0   | —     | $\approx$ a. Very fine day.             |
| 4     | 30.200 | 30.352 | 55.1 | 43.8 | 39.7 | 57.8 | 31.9 | 28.4 | 73   | 100  | SE  | 1   | 1   | 0   | —     | $\approx$ a.                            |
| 5     | 30.497 | 30.646 | 54.7 | 46.1 | 39.9 | 59.7 | 37.8 | 30.9 | 99   | 99   | E   | 1   | 4   | 0   | —     | $\approx$ a.                            |
| 6     | 30.710 | 30.651 | 56.0 | 43.4 | 42.9 | 58.7 | 32.2 | 27.7 | 72   | 99   | E   | 1   | 1   | 0   | —     | $\approx$ a. $\bigcirc$                 |
| 7     | 30.513 | 30.251 | 45.0 | 50.3 | 38.2 | 54.0 | 29.2 | 33.1 | 98   | 91   | NNW | 1   | 10  | 10  | —     | $\approx$ 0 ga. and before.             |
| 8     | 30.183 | 30.271 | 48.5 | 42.2 | 42.2 | 50.9 | 27.1 | 24.2 | 80   | 90   | N   | 4   | 7   | 4   | —     | $\approx$ in squalls during day.        |
| 9     | 30.339 | 30.399 | 45.0 | 44.2 | 38.4 | 48.5 | 27.9 | 27.8 | 94   | 96   | NW  | 1   | 10  | 10  | —     | 003                                     |
| 10    | 30.064 | 29.756 | 44.7 | 50.2 | 42.1 | 50.4 | 27.4 | 32.9 | 93   | 91   | SW  | 2   | 10  | 8   | —     | 008                                     |
| 11    | 29.806 | 29.796 | 48.4 | 42.1 | 39.9 | 53.1 | 27.4 | 24.4 | 81   | 91   | WSW | 3   | 10  | 0   | —     | 007                                     |
| 12    | 29.843 | 29.961 | 46.5 | 43.9 | 39.1 | 50.7 | 25.6 | 23.1 | 82   | 80   | WNW | 2   | 10  | 10  | —     | 165                                     |
| 13    | 29.642 | 29.727 | 55.2 | 53.8 | 40.2 | 61.2 | 24.1 | 33.4 | 97   | 80   | SW  | 4   | 10  | 10  | —     | $\approx$ op. and before.               |
| 14    | 29.697 | 29.405 | 57.0 | 50.3 | 50.1 | 66.1 | 35.7 | 35.3 | 76   | 77   | SW  | 5   | 3   | 0   | —     | $\approx$ ga.—gp.                       |
| 15    | 29.494 | 29.760 | 48.1 | 40.0 | 38.5 | 57.8 | 24.4 | 20.3 | 73   | 82   | WSW | 6   | 5   | 4   | —     | $\approx$ ga.—gp.                       |
| 16    | 30.017 | 30.264 | 42.0 | 32.4 | 32.4 | 45.8 | 22.5 | 17.1 | 85   | 93   | W   | 1   | 8   | 1   | —     | 013                                     |
| 17    | 30.278 | 30.374 | 41.0 | 38.3 | 28.3 | 46.0 | 21.4 | 12.8 | 83   | 83   | WNW | 2   | 1   | 0   | —     | Very fine. Cool breeze.                 |
| 18    | 30.344 | 30.293 | 40.1 | 39.8 | 26.2 | 51.6 | 18.8 | 19.8 | 75   | 81   | NW  | 1   | 1   | 0   | —     | Very fine day. Very cold at night.      |
| 19    | 30.216 | 30.099 | 43.7 | 45.2 | 38.2 | 51.0 | 25.5 | 27.7 | 89   | 93   | SW  | 1   | 10  | 10  | —     | 014                                     |
| 20    | 30.084 | 30.059 | 44.3 | 48.3 | 41.9 | 56.8 | 28.9 | 30.6 | 100  | 91   | SW  | 2   | 10  | 7   | —     | 010                                     |
| 21    | 29.842 | 29.680 | 47.8 | 51.0 | 44.1 | 51.9 | 26.6 | 36.1 | 80   | 97   | S   | 4   | 10  | 10  | —     | 165                                     |
| 22    | 29.691 | 29.672 | 51.0 | 46.1 | 46.1 | 56.6 | 34.8 | 29.7 | 93   | 96   | SSW | 2   | 5   | 3   | —     | 064                                     |
| 23    | 29.609 | 29.309 | 42.8 | 42.7 | 38.2 | 49.7 | 26.0 | 25.9 | 95   | 94   | SSE | 2   | 4   | 2   | —     | 195                                     |
| 24    | 29.408 | 29.415 | 40.7 | 44.8 | 37.9 | 52.7 | 23.5 | 27.7 | 92   | 94   | SSW | 2   | 10  | 10  | —     | 026                                     |
| 25    | 29.322 | 29.414 | 45.8 | 46.7 | 42.4 | 50.8 | 29.6 | 31.5 | 96   | 99   | SSE | 1   | 10  | 10  | —     | 048                                     |
| 26    | 29.749 | 29.906 | 49.7 | 41.8 | 39.9 | 53.1 | 31.6 | 24.7 | 89   | 94   | SW  | 1   | 4   | 0   | —     | 0                                       |
| 27    | 29.770 | 29.797 | 47.1 | 45.6 | 39.7 | 52.4 | 30.4 | 27.3 | 94   | 90   | SSW | 5   | 2   | 9   | —     | 137                                     |
| 28    | 29.980 | 29.081 | 48.1 | 42.9 | 40.6 | 56.6 | 28.9 | 25.3 | 86   | 91   | WSW | 1   | 1   | 2   | —     | 185                                     |
| 29    | 29.725 | 29.500 | 49.1 | 53.3 | 42.8 | 56.0 | 34.4 | 39.9 | 98   | 98   | S   | 6   | 10  | 10  | —     | 723                                     |
| 30    | 29.757 | 29.438 | 43.0 | 56.1 | 42.8 | 58.5 | 25.3 | 38.2 | 91   | 85   | S   | 1   | 4   | 9   | —     | $\approx$ a. and during day.            |
| 31    | 29.005 | 29.173 | 49.3 | 46.7 | 43.9 | 56.4 | 27.6 | 26.3 | 83   | 78   | W   | 2   | 1   | 3   | —     | $\approx$ p.                            |
| Means | 29.972 | 29.959 | 47.9 | 45.1 | 39.0 | 54.5 | 29.3 | 27.9 | 87.0 | 91.5 | 2.2 | 2.1 | 5.5 | 4.6 | 2.073 |                                         |

## BUXTON.

Height above Mean Sea Level, 987 feet. Long. 1° 54' W. Lat. 53° 14' N.

OCTOBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks. |                      |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------|----------------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |          |                      |
|       | ins.       | ins.   |                  |        |      |      | in.                | in.    | %                  | %      | SE                         | 1      | SW            | 1      | 8      | 10       | ins.                 |
| 1     | 30.236     | 30.225 | 49.9             | 39.4   | 39.4 | 59.1 | 32.8               | 22.7   | 92                 | 95     | NE                         | 1      | W             | 1      | 0      | 3        | ga.                  |
| 2     | 30.120     | 30.025 | 46.6             | 38.9   | 31.8 | 61.1 | 27.8               | 21.7   | 88                 | 92     | SW                         | 1      | SW            | 1      | 10     | 10       | ga. and op.          |
| 3     | 30.036     | 30.099 | 43.9             | 36.9   | 30.5 | 59.2 | 27.1               | 18.9   | 90                 | 89     | SSE                        | 1      | SW            | 1      | 4      | 3        | ga. op.              |
| 4     | 30.222     | 30.370 | 45.2             | 36.2   | 33.5 | 57.1 | 27.1               | 18.9   | 90                 | 89     | SW                         | 1      | NE            | 1      | 2      | 0        | ga. op.              |
| 5     | 30.494     | 30.612 | 42.4             | 41.7   | 30.2 | 55.4 | 23.8               | 22.6   | 88                 | 86     | SE                         | 1      | SE            | 1      | 3      | 10       | ga. op.              |
| 6     | 30.730     | 30.672 | 44.9             | 40.9   | 32.0 | 54.7 | 27.4               | 23.4   | 92                 | 92     | NW                         | 3      | W             | 4      | 8      | 10       | ga.                  |
| 7     | 30.534     | 30.335 | 48.9             | 49.4   | 35.8 | 52.1 | 32.1               | 31.5   | 93                 | 89     | NE                         | 3      | NW            | 2      | 8      | 2        |                      |
| 8     | 30.253     | 30.370 | 47.5             | 40.1   | 40.0 | 51.7 | 26.5               | 20.2   | 82                 | 81     | N                          | 1      | N             | 1      | 10     | 3        | ga.                  |
| 9     | 30.376     | 30.273 | 42.9             | 41.6   | 38.0 | 46.9 | 23.0               | 24.1   | 83                 | 92     | W                          | 2      | W             | 2      | 10     | 10       | 220                  |
| 10    | 30.041     | 29.736 | 45.1             | 49.9   | 41.2 | 50.3 | 27.6               | 33.3   | 92                 | 93     | WNW                        | 3      | W             | 4      | 10     | 10       | 900                  |
| 11    | 29.861     | 29.807 | 45.4             | 41.7   | 41.0 | 49.9 | 27.6               | 24.2   | 87                 | 92     | NW                         | 3      | NW            | 2      | 4      | 10       | 730                  |
| 12    | 29.893     | 29.959 | 44.0             | 42.2   | 40.0 | 55.7 | 24.3               | 22.3   | 84                 | 84     | W                          | 6      | W             | 4      | 10     | 10       | 010                  |
| 13    | 29.630     | 29.718 | 55.7             | 51.2   | 40.2 | 58.1 | 37.9               | 33.0   | 86                 | 88     | WSW                        | 1      | SW            | 4      | 9      | 3        | 070                  |
| 14    | 29.646     | 29.370 | 54.6             | 55.9   | 50.2 | 62.9 | 35.7               | 25.7   | 84                 | 80     | W                          | 6      | W             | 7      | 8      | 10       | 510                  |
| 15    | 29.495     | 29.604 | 44.1             | 40.4   | 38.0 | 56.9 | 24.2               | 21.6   | 83                 | 87     | NW                         | 1      | N             | 1      | 10     | 4        | 340                  |
| 16    | 30.080     | 30.333 | 39.9             | 34.9   | 33.8 | 43.7 | 22.1               | 18.5   | 91                 | 91     | N                          | 1      | NW            | 1      | 6      | 2        | * before ga. ga. op. |
| 17    | 30.340     | 30.418 | 36.9             | 29.9   | 29.9 | 39.7 | 19.9               | 14.2   | 91                 | 85     | Caln                       | 0      | WSW           | 1      | 6      | 10       | 020                  |
| 18    | 30.367     | 30.426 | 39.1             | 43.7   | 29.0 | 43.7 | 21.4               | 21.3   | 90                 | 74     | WSW                        | 2      | W             | 1      | 10     | 2        | 080                  |
| 19    | 30.219     | 30.157 | 46.3             | 41.1   | 40.1 | 48.1 | 27.2               | 23.4   | 88                 | 91     | W                          | 1      | WSW           | 2      | 10     | 10       | 200                  |
| 20    | 30.086     | 30.020 | 49.2             | 47.9   | 40.4 | 55.4 | 32.2               | 27.6   | 93                 | 84     | SW                         | 4      | SSW           | 2      | 10     | 6        | 265                  |
| 21    | 29.761     | 29.647 | 47.9             | 51.7   | 45.0 | 53.9 | 30.8               | 34.6   | 93                 | 90     | SW                         | 4      | W             | 4      | 10     | 0        | 350                  |
| 22    | 30.650     | 30.698 | 51.1             | 43.9   | 43.0 | 52.8 | 34.9               | 24.2   | 93                 | 84     | SW                         | 1      | W             | 3      | 10     | 10       | 500                  |
| 23    | 30.516     | 30.353 | 44.9             | 41.9   | 37.8 | *    | 27.4               | 22.4   | 92                 | 85     | W                          | 2      | SW            | 2      | 4      | 9        | 020                  |
| 24    | 30.454     | 30.370 | 42.7             | 44.2   | 38.0 | —    | 22.0               | 26.1   | 81                 | 90     | Caln                       | 0      | SE            | 1      | 10     | 10       | 075                  |
| 25    | 30.266     | 30.466 | 48.1             | 44.9   | 43.0 | —    | 29.6               | 27.4   | 89                 | 92     | NW                         | 2      | W             | 2      | 5      | 10       | 005                  |
| 26    | 30.774     | 30.866 | 46.5             | 43.9   | 40.3 | —    | 28.3               | 26.4   | 91                 | 92     | SW                         | 5      | W             | 4      | 10     | 5        | 340                  |
| 27    | 30.708     | 30.786 | 48.5             | 44.5   | 42.0 | —    | 31.3               | 27.0   | 93                 | 93     | NW                         | 3      | SW            | 1      | 9      | 2        | 400                  |
| 28    | 30.014     | 30.060 | 46.9             | 46.0   | 38.0 | —    | 27.4               | 27.4   | 86                 | 92     | SW                         | 4      | W             | 1      | 10     | 3        | 785                  |
| 29    | 30.625     | 30.560 | 51.1             | 49.0   | 41.0 | —    | 34.9               | 29.7   | 93                 | 86     | WSW                        | 3      | SW            | 5      | 8      | 10       | 475                  |
| 30    | 30.723     | 30.462 | 49.7             | 53.9   | 49.0 | —    | 30.9               | 38.4   | 87                 | 93     | NW                         | 4      | W             | 6      | 2      | 3        | —                    |
| 31    | 30.030     | 30.194 | 46.9             | 45.9   | 44.4 | —    | 26.3               | 25.2   | 83                 | 83     |                            |        |               |        |        |          | ga. and op.          |
| Means | 29.974     | 29.985 | 46.3             | 43.6   | 38.8 | *    | 28.0               | 25.4   | 88.7               | 88.2   | 2.3                        |        | 2.4           | 7.5    | 6.8    | 6.295    |                      |



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## UPPINGHAM.

Height above Mean Sea Level, 484 feet. Long. 0° 44' W. Lat. 52° 35' N.

OCTOBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |           | Cloud Amount. |        | Rain. | Remarks. |
|-------|------------|--------|------------------|--------|------|--------------------|--------|--------------------|--------|----------------------------|-----------|---------------|--------|-------|----------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max.               | 9 a.m. | 9 p.m.             | 9 a.m. | 9 p.m.                     | 9 a.m.    | 9 p.m.        | 9 a.m. |       |          |
| 1     | ins.       | ins.   | 49.1             | 44.4   | 41.6 | 59.9               | ins.   | ins.               | 98     | 96                         | NE 2      | NNE 1         | ins.   |       |          |
| 2     | 30.218     | 30.184 | 49.1             | 44.4   | 41.6 | 59.9               | 341    | 281                | 98     | 96                         | NE 2      | NNE 1         | ins.   |       |          |
| 3     | 30.102     | 30.012 | 50.0             | 43.9   | 40.0 | 61.4               | 307    | 265                | 85     | 92                         | Calm      | Calm          | 0      |       |          |
| 4     | 30.024     | 30.086 | 43.3             | 45.2   | 39.2 | 60.8               | 246    | 297                | 88     | 99                         | ENE 1     | Calm          | 0      |       |          |
| 5     | 30.188     | 30.26  | 49.8             | 43.6   | 37.0 | 61.2               | 320    | 271                | 89     | 95                         | ENE 1     | Calm          | 0      |       |          |
| 6     | 30.479     | 30.608 | 49.5             | 43.3   | 38.0 | 62.9               | 325    | 270                | 92     | 96                         | E by N 1  | Calm          | 0      |       |          |
| 7     | 30.700     | 30.652 | 48.5             | 46.0   | 38.1 | 60.7               | 303    | 287                | 89     | 93                         | E by N 1  | Calm          | 0      |       |          |
| 8     | 30.553     | 30.290 | 41.0             | 51.1   | 38.3 | 59.7               | 239    | 317                | 94     | 84                         | Why N 1   | NW 5          | 10     |       |          |
| 9     | 30.202     | 30.284 | 49.0             | 40.7   | 39.9 | 51.8               | 243    | 226                | 69     | 89                         | N by W 6  | N by E 3      | 5      |       |          |
| 10    | 30.344     | 30.313 | 44.8             | 43.8   | 38.8 | 50.4               | 239    | 246                | 81     | 86                         | N by W 2  | Calm          | 0      |       |          |
| 11    | 30.113     | 29.830 | 45.8             | 49.8   | 41.9 | 50.1               | 253    | 317                | 82     | 88                         | Why S 2   | SSW 4         | 10     |       |          |
| 12    | 29.872     | 29.861 | 47.0             | 42.8   | 40.8 | 53.6               | 235    | 317                | 82     | 88                         | Why N 3   | Why N 3       | 1      |       |          |
| 13    | 29.885     | 29.82  | 47.0             | 44.8   | 39.4 | 52.2               | 243    | 333                | 87     | 78                         | Why N 3   | Why S 1       | 1      |       |          |
| 14    | 29.727     | 29.72  | 50.0             | 54.1   | 42.8 | 59.2               | 301    | 323                | 87     | 78                         | SW 5      | SSW 5         | 10     |       |          |
| 15    | 29.572     | 29.838 | 48.7             | 40.0   | 38.6 | 62.2               | 239    | 213                | 70     | 86                         | Why N 5   | SSW 5         | 5      |       |          |
| 16    | 30.033     | 30.303 | 43.7             | 35.9   | 35.0 | 46.7               | 244    | 176                | 85     | 83                         | Why N 1   | NW 1          | 10     |       |          |
| 17    | 30.316     | 30.404 | 40.1             | 35.1   | 31.8 | 46.8               | 204    | 171                | 82     | 83                         | Why N 3   | NNW 1         | 9      |       |          |
| 18    | 30.350     | 30.293 | 39.5             | 40.0   | 31.0 | 50.5               | 220    | 182                | 91     | 73                         | WNW 1     | NW 1          | 3      |       |          |
| 19    | 30.229     | 30.141 | 44.8             | 45.7   | 38.1 | 54.7               | 252    | 262                | 85     | 86                         | SW 2      | SW 3          | 10     |       |          |
| 20    | 30.096     | 30.070 | 48.7             | 46.8   | 43.6 | 58.6               | 311    | 262                | 91     | 82                         | SW 1      | WSW 2         | 9      |       |          |
| 21    | 29.863     | 29.699 | 48.8             | 53.4   | 44.9 | 53.8               | 277    | 397                | 80     | 97                         | SSW 2     | S by W 4      | 10     |       |          |
| 22    | 29.723     | 29.709 | 53.0             | 46.5   | 46.0 | 57.1               | 359    | 383                | 87     | 90                         | sw by S 3 | sw by W 1     | 10     |       |          |
| 23    | 29.630     | 29.372 | 42.5             | 42.0   | 39.0 | 50.8               | 265    | 247                | 98     | 93                         | SSE 2     | sw by W 3     | 10     |       |          |
| 24    | 29.466     | 29.418 | 42.5             | 44.1   | 36.5 | 51.0               | 228    | 284                | 84     | 98                         | W by S 5  | WSW 3         | 4      |       |          |
| 25    | 29.354     | 29.403 | 48.5             | 46.9   | 41.3 | 51.1               | 334    | 320                | 98     | 99                         | S 1       | N by E 1      | 10     |       |          |
| 26    | 29.741     | 29.917 | 46.0             | 43.1   | 42.8 | 55.6               | 306    | 265                | 99     | 95                         | WSW 1     | SW 1          | 10     |       |          |
| 27    | 29.801     | 29.816 | 49.8             | 47.0   | 41.4 | 54.0               | 328    | 282                | 91     | 88                         | sw by S 6 | SSW 5         | 8      |       |          |
| 28    | 29.026     | 29.099 | 46.9             | 43.9   | 41.4 | 55.4               | 293    | 265                | 92     | 92                         | WSW 1     | Why S 1       | 1      |       |          |
| 29    | 29.741     | 29.537 | 50.8             | 54.8   | 41.2 | 56.7               | 359    | 418                | 96     | 97                         | S 5       | SW 3          | 10     |       |          |
| 30    | 29.781     | 29.530 | 48.9             | 55.8   | 42.9 | 57.9               | 317    | 387                | 92     | 86                         | SSW 2     | SW 5          | 9      |       |          |
| 31    | 30.037     | 30.222 | 48.0             | 44.9   | 42.8 | 55.8               | 253    | 256                | 76     | 87                         | Why N 4   | WSW 2         | 0      |       |          |
| Means | 29.997     | 29.986 | 47.4             | 45.7   | 40.2 | 55.8               | 277    | 286                | 88.8   | 88.8                       | 2.5       | 2.2           | 7.2    | 4.2   | 1.077    |

## OSCOTT.

Height above Mean Sea Level, 460 feet. Long. 1° 51' W. Lat. 52° 33' N.

OCTOBER 1877.

|       |        |        |      |      |      |      |     |     |      |      |         |         |     |     |       |  |
|-------|--------|--------|------|------|------|------|-----|-----|------|------|---------|---------|-----|-----|-------|--|
| 1     | 30.213 | 30.167 | 49.2 | 50.6 | 45.2 | 61.6 | 348 | 330 | 100  | 90   | Calm    | NE 1    | 9   | 9   |       |  |
| 2     | 30.100 | 29.984 | 46.2 | 49.0 | 38.0 | 64.8 | 308 | 278 | 99   | 80   | Calm    | Calm    | 0   | 10  | 0     |  |
| 3     | 30.007 | 30.067 | 46.6 | 45.9 | 36.0 | 62.1 | 298 | 279 | 95   | 91   | E 1     | ENE 1   | 10  | 0   |       |  |
| 4     | 30.185 | 30.100 | 48.0 | 47.2 | 33.2 | 61.3 | 292 | 275 | 88   | 86   | E 1     | NE 0-1  | 9   | 0   |       |  |
| 5     | 30.478 | 30.583 | 46.1 | 46.9 | 36.9 | 60.8 | 286 | 302 | 92   | 95   | NE 2    | E 1     | 8   | 1   |       |  |
| 6     | 30.698 | 30.640 | 47.0 | 46.0 | 37.5 | 58.1 | 301 | 289 | 94   | 94   | NNE 1   | NNE 0-1 | 9   | 0   |       |  |
| 7     | 30.566 | 30.320 | 44.5 | 51.8 | 37.4 | 56.1 | 292 | 341 | 99   | 88   | WNW 1   | NW 4    | 10  | 10  |       |  |
| 8     | 30.234 | 30.327 | 49.8 | 40.5 | 40.2 | 53.9 | 269 | 208 | 76   | 83   | NNE 4   | NNE 1   | 9   | 0   |       |  |
| 9     | 30.373 | 30.297 | 44.0 | 41.8 | 37.0 | 48.6 | 228 | 239 | 78   | 91   | NNW 2   | S 0-1   | 9   | 10  |       |  |
| 10    | 30.082 | 29.801 | 47.5 | 51.0 | 41.2 | 51.6 | 290 | 343 | 89   | 92   | SSW 3   | SSW 5   | 10  | 10  |       |  |
| 11    | 29.885 | 29.845 | 47.7 | 43.2 | 40.3 | 55.2 | 240 | 245 | 73   | 87   | WSW 6   | WSW 6-7 | 0   | 1   |       |  |
| 12    | 29.904 | 29.959 | 44.0 | 46.5 | 42.1 | 53.2 | 249 | 237 | 75   | 75   | W 5     | SSW 2   | 3   | 10  |       |  |
| 13    | 29.687 | 29.744 | 57.2 | 53.6 | 43.1 | 62.1 | 406 | 347 | 87   | 84   | SW 7    | SSW 5-7 | 10  | 10  |       |  |
| 14    | 29.683 | 29.379 | 56.7 | 60.6 | 52.9 | 69.0 | 384 | 383 | 84   | 73   | SSW 6-7 | S 7-8   | 9   | 10  |       |  |
| 15    | 29.582 | 29.790 | 48.5 | 41.9 | 40.4 | 63.1 | 245 | 206 | 72   | 78   | SW 7    | SW 8    | 3   | 1   |       |  |
| 16    | 30.072 | 30.334 | 41.2 | 36.6 | 35.6 | 45.8 | 246 | 192 | 95   | 89   | W 3     | NNW 1   | 10  | 1   |       |  |
| 17    | 30.340 | 30.395 | 40.0 | 36.0 | 32.0 | 43.8 | 209 | 208 | 85   | 98   | W 2     | NW 0-1  | 9   | 2   |       |  |
| 18    | 30.368 | 30.276 | 36.0 | 41.0 | 33.3 | 51.2 | 193 | 217 | 91   | 85   | N 0-1   | S 1     | 10  | 10  |       |  |
| 19    | 30.097 | 30.027 | 48.3 | 48.0 | 43.3 | 60.0 | 318 | 285 | 95   | 86   | SSW 2-3 | SW 4    | 10  | 9   |       |  |
| 20    | 29.805 | 29.672 | 49.0 | 52.0 | 47.2 | 55.0 | 322 | 385 | 93   | 99   | S 4     | SW 1-2  | 10  | 3   |       |  |
| 21    | 29.697 | 29.714 | 52.6 | 44.1 | 44.1 | 57.0 | 307 | 271 | 93   | 93   | S 6     | SW 2    | 9   | 0   |       |  |
| 22    | 29.530 | 29.389 | 44.5 | 41.9 | 39.8 | 52.4 | 284 | 244 | 97   | 92   | SE 3    | SW 3    | 9   | 5   |       |  |
| 23    | 29.485 | 29.389 | 43.0 | 44.8 | 36.1 | 51.9 | 236 | 283 | 85   | 96   | SW 3    | S 3     | 1   | 10  |       |  |
| 24    | 29.270 | 29.408 | 48.4 | 48.0 | 43.9 | 52.7 | 335 | 327 | 98   | 98   | Calm    | NE 0-1  | 9   | 10  |       |  |
| 25    | 29.740 | 29.814 | 51.2 | 46.1 | 43.5 | 57.7 | 335 | 268 | 89   | 86   | SW 6    | SW 4    | 9   | 1   |       |  |
| 26    | 30.025 | 30.070 | 48.2 | 45.9 | 43.3 | 58.3 | 299 | 290 | 87   | 95   | SW 3    | S 3     | 1   | 9   |       |  |
| 27    | 29.652 | 29.557 | 52.0 | 52.1 | 44.3 | 57.1 | 385 | 347 | 99   | 89   | S 6-7   | W 3     | 10  | 0   |       |  |
| 28    | 29.750 | 29.485 | 49.0 | 56.0 | 44.2 | 58.6 | 330 | 394 | 95   | 88   | S 3     | S 8     | 10  | 9   |       |  |
| 29    | 30.066 | 30.231 | 48.7 | 46.0 | 45.4 | 57.0 | 259 | 265 | 76   | 86   | WSW 3   | WSW 2   | 0   | 10  |       |  |
| Means | 29.985 | 29.968 | 47.5 | 46.6 | 40.7 | 50.5 | 294 | 284 | 88.9 | 88.6 | 3.0     | 2.8     | 7.6 | 5.5 | 1.530 |  |

## CHURCHSTOKE.

Height above Mean Sea Level, 548 feet. Long. 3° 5' W. Lat. 52° 31' N.

OCTOBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks.                                                    |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|-------------------------------------------------------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. |        |                                                             |
| 1     | ins.       | ins.   | 43.8             | 46.8   | 38.5 | 60.6 | ins.               | ins.   | 98                 | 95     | Calm                       | 0      | 10            | 0      | ins.   | ☁ till 10a. ☀ Bright and warm.                              |
| 2     | 30.240     | 30.198 | 43.8             | 46.7   | 36.0 | 60.7 | 277                | 274    | 100                | 87     | Calm                       | 0      | 0             | 0      | —      | ☁ till 9a.                                                  |
| 3     | 30.119     | 30.007 | 42.8             | 46.7   | 36.0 | 60.7 | 277                | 274    | 100                | 87     | Calm                       | 0      | 1             | 0      | —      | ☁ Cold wind.                                                |
| 4     | 30.027     | 30.124 | 46.8             | 42.0   | 35.1 | 60.1 | 287                | 243    | 90                 | 91     | ENE                        | 1      | 1             | 0      | —      | ☁ Cold wind.                                                |
| 5     | 30.223     | 30.327 | 43.3             | 48.4   | 34.9 | 56.5 | 271                | 330    | 97                 | 97     | Calm                       | 0      | 2             | 3      | —      | ☁ Very cold wind.                                           |
| 6     | 30.486     | 30.615 | 42.8             | 43.6   | 34.0 | 57.1 | 277                | 268    | 100                | 94     | Calm                       | 0      | 3             | 2      | —      | ☁ Dreary and misty.                                         |
| 7     | 30.755     | 30.702 | 41.8             | 41.8   | 33.5 | 52.5 | 257                | 247    | 97                 | 94     | Calm                       | 0      | 6             | 8      | —      | ☁ Cold wind.                                                |
| 8     | 30.609     | 30.406 | 41.8             | 51.9   | 31.1 | 56.5 | 267                | 324    | 100                | 84     | Calm                       | 0      | 2             | 6      | 0.50   | ☁ Cold wind.                                                |
| 9     | 30.285     | 30.426 | 51.4             | 39.8   | 39.5 | 59.1 | 369                | 204    | 97                 | 84     | NW                         | 3      | 1             | 10     | 0.15   | ☁ Rough.                                                    |
| 10    | 30.415     | 30.344 | 43.3             | 43.0   | 30.8 | 53.8 | 249                | 255    | 89                 | 92     | SW                         | 2      | 2             | 8      | —      | ☁ Dull and cold.                                            |
| 11    | 30.093     | 29.863 | 49.4             | 52.2   | 39.9 | 54.4 | 273                | 385    | 78                 | 99     | WSW                        | 4      | 3             | 8      | 2.25   | ☁ Heavy storms.                                             |
| 12    | 29.948     | 29.948 | 47.8             | 43.5   | 40.1 | 54.3 | 275                | 260    | 83                 | 92     | W                          | 7      | 1             | 8      | 2.200  | ☁ Very cold wind.                                           |
| 13    | 29.976     | 29.954 | 47.3             | 45.6   | 42.8 | 51.9 | 304                | 295    | 94                 | 97     | SW                         | 2      | 1             | 3      | 1.125  | ☁ Very cold wind.                                           |
| 14    | 29.744     | 29.793 | 56.9             | 52.4   | 44.1 | 59.9 | 451                | 379    | 98                 | 96     | WSW                        | 6      | 2             | 6      | 0.10   | ☁ Usually clear.                                            |
| 15    | 29.609     | 29.519 | 58.0             | 59.9   | 51.8 | 67.2 | 466                | 491    | 84                 | 96     | SW                         | 4      | 3             | 4      | 1.027  | ☁ Heavy gale with ☀ in night, up-<br>rooting several trees. |
| 16    | 29.649     | 29.830 | 47.3             | 44.4   | 39.9 | 61.3 | 269                | 214    | 83                 | 73     | S                          | 9      | 5             | 6      | 3.370  | ☁ Bitter cold wind.                                         |
| 17    | 30.132     | 30.413 | 41.3             | 34.9   | 33.0 | 46.3 | 230                | 177    | 89                 | 87     | SW                         | 2      | 1             | 6      | 3.145  | ☁ Fair.                                                     |
| 18    | 30.410     | 30.453 | 44.8             | 32.1   | 31.8 | 48.7 | 217                | 177    | 73                 | 98     | W                          | 4      | 2             | 0      | 0.005  | ☁ Fine.                                                     |
| 19    | 30.405     | 30.324 | 43.6             | 43.6   | 27.0 | 50.4 | 196                | 240    | 95                 | 84     | Calm                       | 0      | 0             | 8      | —      | ☁ all day.                                                  |
| 20    | 30.240     | 30.155 | 47.9             | 48.1   | 41.8 | 51.4 | 273                | 278    | 83                 | 83     | S                          | 3      | 1             | 6      | 0.033  | ☁ 2 storms.                                                 |
| 21    | 30.089     | 30.018 | 54.0             | 49.1   | 46.7 | 57.3 | 361                | 301    | 86                 | 86     | NW                         | 1      | 1             | 8      | 0.082  | ☁ 2 storms.                                                 |
| 22    | 29.730     | 29.682 | 52.9             | 53.0   | 48.0 | 56.5 | 362                | 345    | 91                 | 85     | SSW                        | 3      | 1             | 10     | 2.210  | ☁ storms.                                                   |
| 23    | 29.665     | 29.744 | 54.3             | 43.3   | 43.1 | 56.9 | 370                | 260    | 88                 | 93     | SSW                        | 2      | 1             | 8      | 0.257  | ☁ storms.                                                   |
| 24    | 29.480     | 29.408 | 47.3             | 42.6   | 41.1 | 50.3 | 395                | 232    | 91                 | 85     | SSE                        | 2      | 1             | 9      | 2.200  | ☁ storms.                                                   |
| 25    | 29.483     | 29.381 | 45.6             | 46.8   | 38.0 | 50.6 | 252                | 298    | 82                 | 93     | W                          | 1      | 1             | 6      | 0.091  | ☁ storms.                                                   |
| 26    | 29.263     | 29.447 | 47.6             | 46.6   | 43.8 | 53.2 | 328                | 305    | 100                | 97     | E                          | 0.5    | 1             | 9      | 0.045  | ☁ storms.                                                   |
| 27    | 29.779     | 29.869 | 45.9             | 46.9   | 40.2 | 55.0 | 399                | 302    | 95                 | 95     | W                          | 0.5    | 2             | 1      | 8.141  | ☁ storms.                                                   |
| 28    | 29.725     | 29.847 | 52.0             | 47.0   | 46.8 | 56.4 | 364                | 284    | 94                 | 89     | SW                         | 3      | 1             | 10     | 0.039  | ☁ storms.                                                   |
| 29    | 30.040     | 30.040 | 50.4             | 45.7   | 45.1 | 56.3 | 305                | 286    | 84                 | 94     | SW                         | 3      | 1             | 3      | 2.280  | ☁ storms.                                                   |
| 30    | 29.570     | 29.618 | 55.9             | 51.9   | 43.6 | 60.1 | 436                | 367    | 98                 | 95     | SE                         | 5      | 1             | 10     | 2.075  | ☁ storms.                                                   |
| 31    | 29.724     | 29.552 | 54.1             | 55.8   | 45.1 | 60.0 | 386                | 401    | 92                 | 90     | SE                         | 5      | 3             | 8      | 10.061 | ☁ storms.                                                   |
| 31    | 30.133     | 30.280 | 49.2             | 48.3   | 45.0 | 55.8 | 250                | 306    | 71                 | 91     | W                          | 1      | 2             | 7      | —      | ☁ storms.                                                   |
| Means | 30.001     | 30.003 | 47.8             | 46.4   | 39.7 | 55.8 | 304                | 291    | 90.4               | 90.8   | 2.4                        | 1.2    | 5.6           | 4.9    | 2.677  | ☁ storms.                                                   |



## AUDLEY END, ESSEX.

Height above Mean Sea Level, 154 feet. Long. 0° 13' E. Lat. 52° 1' N.

OCTOBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain. | Remarks.                        |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|-------|---------------------------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. |       |                                 |
| 1     | ins.       | ins.   | 40.7             | 49.0   | 38.4 | 60.2 | ins.               | ins.   | 99                 | 98     | Calm                       | 0      | 10            | 0      | ins.  | ☁ before 9a. ☁ 9a.              |
| 2     | 30.226     | 30.180 | 40.7             | 49.0   | 38.4 | 60.2 | 317                | 340    | 99                 | 98     | Calm                       | 0      | 10            | 0      | 0.010 | ☁ 9a. ☁                         |
| 3     | 30.118     | 30.027 | 44.6             | 39.3   | 39.0 | 59.0 | 295                | 234    | 100                | 98     | Calm                       | 0      | 10            | 0      | 0     | ☁ 9a. and before. ☁ 9p.         |
| 4     | 30.045     | 30.113 | 45.1             | 37.1   | 31.9 | 58.0 | 274                | 217    | 91                 | 98     | Calm                       | 0      | 6             | 0      | 0     | ☁ before 9a.                    |
| 5     | 30.204     | 30.339 | 42.6             | 42.2   | 31.5 | 61.8 | 260                | 265    | 95                 | 98     | NW                         | 1      | 10            | 0      | 0     | ☁ before 9a.                    |
| 6     | 30.492     | 30.599 | 41.9             | 44.1   | 31.0 | 62.8 | 266                | 281    | 100                | 97     | Calm                       | 0      | 0             | 0      | 0     | ☁ before 9a.                    |
| 7     | 30.705     | 30.643 | 50.4             | 37.9   | 31.0 | 62.4 | 327                | 270    | 89                 | 92     | Calm                       | 0      | 0             | 0      | 0     | ☁ 9a. and before. ☁ during day. |
| 8     | 30.504     | 30.249 | 42.9             | 52.0   | 32.0 | 54.2 | 276                | 364    | 100                | 94     | Calm                       | 0      | 10            | 10     | 0     | ☁ 9a. and before. ☁ during day. |
| 9     | 30.170     | 30.262 | 52.0             | 42.4   | 41.8 | 58.1 | 276                | 249    | 72                 | 92     | N                          | 3      | 7             | 0      | 0.020 | ☁ 9a. and before. ☁ during day. |
| 10    | 30.340     | 30.317 | 48.0             | 45.9   | 40.0 | 53.0 | 272                | 288    | 82                 | 94     | NE                         | 2      | 4             | 10     | 0     | ☁ 9a. and before. ☁ during day. |
| 11    | 30.180     | 29.901 | 45.1             | 51.0   | 37.0 | 51.0 | 261                | 319    | 87                 | 85     | W                          | 2      | 10            | 10     | 0     | ☁ 9a. and before. ☁ during day. |
| 12    | 29.905     | 29.918 | 50.0             | 48.0   | 45.2 | 55.0 | 265                | 290    | 74                 | 87     | NW                         | 2      | 10            | 0      | 0     | ☁ 9a. and before. ☁ during day. |
| 13    | 30.037     | 30.036 | 50.4             | 44.9   | 42.3 | 56.0 | 281                | 270    | 78                 | 91     | NW                         | 2      | 6             | 10     | 0     | ☁ 9a. and before. ☁ during day. |
| 14    | 30.200     | 29.854 | 57.2             | 56.0   | 44.0 | 60.0 | 307                | 407    | 85                 | 91     | SW                         | 2      | 10            | 10     | 0     | ☁ 9a. and before. ☁ during day. |
| 15    | 30.826     | 30.590 | 58.8             | 60.3   | 53.0 | 68.2 | 413                | 391    | 84                 | 75     | SW                         | 2      | 8             | 0      | 0     | ☁ 9a. and before. ☁ during day. |
| 16    | 29.670     | 29.959 | 53.2             | 43.9   | 42.3 | 64.0 | 293                | 225    | 72                 | 78     | W                          | 4      | 5             | 0      | 0     | ☁ 9a. and before. ☁ during day. |
| 17    | 30.058     | 30.332 | 47.4             | 38.6   | 36.7 | 47.4 | 262                | 203    | 81                 | 87     | NW                         | 2      | 7             | 0      | 0.080 | ☁ 9a. and before. ☁ during day. |
| 18    | 30.344     | 30.386 | 44.4             | 38.4   | 34.2 | 47.2 | 215                | 210    | 73                 | 91     | NW                         | 2      | 4             | 0      | 0     | ☁ 9a. and before. ☁ during day. |
| 19    | 30.377     | 30.352 | 41.3             | 30.0   | 26.0 | 51.2 | 202                | 164    | 78                 | 98     | Calm                       | 0      | 4             | 0      | 0     | ☁ 9a. and before. ☁ during day. |
| 20    | 30.286     | 30.218 | 42.3             | 48.2   | 28.3 | 55.2 | 221                | 268    | 83                 | 80     | SW                         | 1      | 8             | 10     | 0     | ☁ 9a. and before. ☁ during day. |
| 21    | 30.157     | 30.116 | 49.4             | 46.4   | 43.3 | 62.0 | 275                | 305    | 78                 | 97     | SW                         | 1      | 7             | 5      | 0     | ☁ 9a. and before. ☁ during day. |
| 22    | 29.956     | 29.792 | 51.7             | 56.0   | 45.2 | 56.2 | 281                | 424    | 74                 | 94     | SW                         | 2      | 10            | 10     | 0     | ☁ 9a. and before. ☁ during day. |
| 23    | 30.832     | 30.782 | 56.0             | 51.2   | 49.2 | 61.0 | 394                | 353    | 88                 | 94     | SW                         | 1      | 8             | 10     | 0     | ☁ 9a. and before. ☁ during day. |
| 24    | 30.652     | 30.454 | 46.2             | 44.9   | 40.2 | 56.2 | 308                | 277    | 99                 | 93     | SW                         | 1      | 7             | 0      | 0     | ☁ 9a. and before. ☁ during day. |
| 25    | 30.548     | 30.492 | 44.9             | 48.0   | 35.2 | 54.0 | 235                | 309    | 70                 | 93     | SW                         | 2      | 0             | 7      | 0     | ☁ 9a. and before. ☁ during day. |
| 26    | 30.331     | 30.383 | 50.5             | 51.0   | 45.7 | 52.2 | 362                | 364    | 98                 | 97     | Calm                       | 0      | 10            | 10     | 0     | ☁ 9a. and before. ☁ during day. |
| 27    | 30.775     | 30.972 | 48.4             | 38.4   | 37.2 | 55.4 | 319                | 204    | 94                 | 88     | NW                         | 1      | 10            | 0      | 0     | ☁ 9a. and before. ☁ during day. |
| 28    | 30.907     | 30.906 | 50.9             | 44.9   | 37.2 | 56.2 | 352                | 277    | 95                 | 93     | SW                         | 2      | 10            | 0      | 0     | ☁ 9a. and before. ☁ during day. |
| 29    | 30.048     | 30.133 | 50.0             | 38.4   | 37.2 | 57.2 | 307                | 225    | 85                 | 97     | NW                         | 2      | 10            | 0      | 0     | ☁ 9a. and before. ☁ during day. |
| 30    | 29.865     | 29.580 | 51.8             | 58.1   | 35.7 | 58.1 | 366                | 449    | 95                 | 92     | SW                         | 3      | 10            | 10     | 0     | ☁ 9a. and before. ☁ during day. |
| 31    | 29.898     | 29.638 | 51.0             | 58.5   | 46.8 | 60.0 | 340                | 400    | 91                 | 82     | SW                         | 2      | 7             | 10     | 0     | ☁ 9a. and before. ☁ during day. |
| Means | 30.043     | 30.027 | 48.6             | 46.2   | 38.9 | 57.1 | 296                | 292    | 86.3               | 91.2   | 1.5                        | 1.2    | 6.4           | 4.3    | 1.000 |                                 |

## CARMARTHEN.

Height above Mean Sea Level, 188 feet. Long. 4° 18' W. Lat. 51° 52' N.

OCTOBER 1877.

|       |        |        |      |      |      |      |     |     |      |      |      |     |     |     |       |                          |
|-------|--------|--------|------|------|------|------|-----|-----|------|------|------|-----|-----|-----|-------|--------------------------|
| 1     | 30.179 | 30.186 | 52.8 | 49.8 | 45.2 | 65.8 | 353 | 353 | 88   | 98   | Calm | 0   | 6   | 0   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 2     | 30.074 | 29.964 | 53.1 | 49.4 | 40.2 | 65.2 | 352 | 319 | 87   | 91   | Calm | 0   | 0   | 0   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 3     | 29.977 | 30.050 | 53.3 | 47.1 | 40.9 | 64.4 | 339 | 306 | 83   | 95   | Calm | 0   | 0   | 0   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 4     | 30.177 | 30.305 | 47.0 | 43.7 | 38.1 | 62.4 | 289 | 277 | 90   | 97   | Calm | 0   | 0   | 0   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 5     | 30.438 | 30.556 | 48.8 | 49.0 | 39.5 | 64.0 | 302 | 329 | 88   | 95   | E    | 1   | 0   | 7   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 6     | 30.667 | 30.637 | 51.6 | 43.5 | 41.4 | 58.6 | 323 | 280 | 84   | 99   | Calm | 0   | 3   | 0   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 7     | 30.581 | 30.419 | 49.8 | 54.5 | 39.1 | 62.4 | 319 | 307 | 89   | 87   | Calm | 0   | 10  | 3   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 8     | 30.305 | 30.371 | 54.2 | 43.5 | 43.5 | 59.7 | 346 | 249 | 82   | 88   | N    | 1   | 10  | 0   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 9     | 30.410 | 30.287 | 44.4 | 48.8 | 33.7 | 60.2 | 231 | 312 | 79   | 91   | Calm | 0   | 0   | 10  | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 10    | 30.166 | 29.844 | 51.0 | 50.8 | 47.0 | 55.7 | 329 | 358 | 88   | 96   | Calm | 0   | 10  | 10  | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 11    | 29.999 | 29.949 | 52.3 | 47.1 | 41.4 | 56.0 | 286 | 306 | 73   | 95   | W    | 1   | 3   | 10  | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 12    | 30.987 | 30.860 | 53.3 | 53.2 | 46.2 | 57.8 | 307 | 403 | 75   | 100  | N    | 1   | 3   | 10  | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 13    | 30.799 | 30.713 | 57.4 | 56.2 | 52.6 | 61.4 | 451 | 401 | 95   | 89   | SW   | 4   | 10  | 10  | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 14    | 30.640 | 30.151 | 57.7 | 60.8 | 55.0 | 66.4 | 430 | 443 | 90   | 83   | S    | 3   | 10  | 9   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 15    | 29.710 | 29.903 | 48.8 | 48.5 | 42.2 | 67.7 | 275 | 207 | 79   | 79   | W    | 3   | 10  | 5   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 16    | 30.175 | 30.409 | 45.9 | 34.8 | 34.8 | 51.4 | 290 | 189 | 95   | 94   | N    | 1   | 10  | 0   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 17    | 30.435 | 30.414 | 43.7 | 34.5 | 30.3 | 54.3 | 231 | 192 | 80   | 96   | Calm | 0   | 1   | 0   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 18    | 30.354 | 30.263 | 35.0 | 45.9 | 28.9 | 53.2 | 193 | 299 | 95   | 97   | Calm | 0   | 9   | 8   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 19    | 30.223 | 30.129 | 50.0 | 51.1 | 44.6 | 55.6 | 322 | 362 | 90   | 96   | SW   | 1   | 10  | 10  | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 20    | 30.090 | 29.959 | 54.5 | 52.6 | 50.9 | 56.6 | 413 | 394 | 97   | 100  | SW   | 1   | 10  | 10  | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 21    | 29.703 | 29.677 | 55.2 | 54.9 | 51.6 | 58.1 | 436 | 410 | 100  | 95   | S    | 4   | 10  | 9   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 22    | 30.640 | 30.756 | 54.4 | 42.9 | 42.9 | 57.8 | 415 | 269 | 98   | 98   | SW   | 3   | 10  | 0   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 23    | 30.381 | 30.404 | 50.4 | 42.2 | 39.5 | 52.2 | 343 | 238 | 94   | 89   | S    | 1   | 10  | 0   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 24    | 30.506 | 30.371 | 43.9 | 49.8 | 36.7 | 55.1 | 275 | 345 | 96   | 96   | Calm | 0   | 6   | 9   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 25    | 30.223 | 30.480 | 51.5 | 47.1 | 46.9 | 56.8 | 375 | 322 | 98   | 99   | Calm | 0   | 10  | 10  | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 26    | 30.822 | 30.864 | 51.2 | 53.1 | 42.8 | 59.0 | 322 | 360 | 86   | 89   | Calm | 0   | 2   | 10  | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 27    | 29.787 | 29.889 | 54.8 | 47.0 | 47.0 | 59.6 | 385 | 296 | 90   | 92   | W    | 3   | 10  | 6   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 28    | 30.089 | 29.973 | 54.2 | 52.2 | 44.5 | 60.2 | 342 | 366 | 81   | 94   | Calm | 0   | 2   | 10  | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 29    | 29.526 | 29.583 | 56.7 | 51.8 | 44.3 | 59.4 | 457 | 377 | 99   | 98   | SW   | 3   | 10  | 0   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 30    | 29.735 | 29.699 | 54.7 | 55.7 | 49.6 | 60.2 | 410 | 382 | 96   | 87   | S    | 2   | 10  | 10  | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| 31    | 30.209 | 30.326 | 51.8 | 49.1 | 48.8 | 58.1 | 306 | 204 | 79   | 84   | W    | 2   | 10  | 0   | 0     | ☁ 9a. ☁ in valley. ☁ 9p. |
| Means | 29.997 | 29.982 | 51.1 | 48.7 | 42.9 | 59.2 | 337 | 325 | 88.5 | 93.1 | 1.1  | 1.2 | 6.4 | 5.4 | 6.470 |                          |

## MARLBOROUGH, WILTS.

Height above Mean Sea Level, 471 feet. Long. 1° 43' W. Lat. 51° 25' N.

OCTOBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain. | Remarks.                        |                           |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|-------|---------------------------------|---------------------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. |       |                                 |                           |
| 1     | ins.       | ins.   | 51.9             | 41.9   | 36.5 | 62.0 | ins.               | ins.   | 90                 | 93     | Calm                       | 0      | 1             | 1      | ins.  | ☁ before 9a. ☁ 9a.              |                           |
| 2     | 30.225     | 30.197 | 51.9             | 40.9   | 34.3 | 62.7 | 346                | 246    | 90                 | 99     | Calm                       | 0      | 0             | 0      | 0     | ☁ 9a. and before. ☁ 9p.         |                           |
| 3     | 30.113     | 30.027 | 51.9             | 40.9   | 31.7 | 60.9 | 276                | 233    | 91                 | 95     | Calm                       | 0      | 0             | 0      | 0     | ☁ before 9a.                    |                           |
| 4     | 30.040     | 30.086 | 45.9             | 39.9   | 31.7 | 61.3 | 287                | 233    | 78                 | 93     | NE                         | 0.1    | 0             | 0      | 0     | ☁ before 9a.                    |                           |
| 5     | 30.189     | 30.330 | 50.6             | 40.5   | 32.2 | 61.5 | 293                | 290    | 83                 | 98     | Calm                       | 0      | 0             | 0      | 0     | ☁ before 9a.                    |                           |
| 6     | 30.461     | 30.577 | 49.7             | 44.9   | 32.0 | 61.5 | 293                | 290    | 78                 | 98     | Calm                       | 0      | 0             | 0      | 0     | ☁ before 9a.                    |                           |
| 7     | 30.688     | 30.645 | 49.8             | 48.0   | 32.4 | 61.0 | 279                | 293    | 79                 | 88     | Calm                       | 0      | 0             | 0      | 0     | ☁ before 9a.                    |                           |
| 8     | 30.594     | 30.551 | 42.9             | 51.0   | 33.1 | 57.1 | 269                | 323    | 98                 | 86     | Calm                       | 0      | 10            | 6      | —     | ☁ 9a. and before. ☁ during day. |                           |
| 9     | 30.230     | 30.326 | 52.5             | 42.7   | 42.7 | 55.7 | 344                | 211    | 87                 | 77     | N                          | 0.3    | 10            | 0      | —     | ☁ a.                            |                           |
| 10    | 30.360     | 30.341 | 46.5             | 40.6   | 35.4 | 53.5 | 231                | 228    | 74                 | 90     | N                          | 0.3    | 10            | 0      | —     | ☁ a.                            |                           |
| 11    | 30.181     | 29.929 | 44.2             | 50.9   | 37.0 | 52.0 | 233                | 329    | 80                 | 88     | SW                         | 0.1    | 10            | 10     | 0.40  | ☁                               |                           |
| 12    | 29.983     | 29.975 | 49.7             | 46.2   | 42.4 | 56.4 | 258                | 273    | 73                 | 89     | W                          | 0.6    | SW            | 0.3    | 0     | 9                               | —                         |
| 13    | 30.081     | 30.035 | 51.4             | 40.9   | 42.2 | 57.7 | 374                | 345    | 84                 | 81     | SW                         | 0.6    | SW            | 0.3    | 3     | 10                              | 1.55                      |
| 14    | 30.878     | 29.859 | 55.9             | 54.7   | 46.3 | 60.5 | 374                | 345    | 84                 | 81     | SW                         | 0.6    | NW            | 0.3    | 10    | 10                              | —                         |
| 15    | 30.787     | 29.514 | 58.5             | 62.0   | 54.2 | 66.1 | 400                | 331    | 82                 | 59     | SW                         | 0.6    | SW            | 1.2    | 5     | 0                               | —                         |
| 16    | 29.724     | 30.024 | 48.9             | 42.0   | 42.0 | 63.8 | 231                | 231    | 67                 | 87     | SW                         | 3.0    | SW            | 3.0    | 8     | 5                               | 1.16                      |
| 17    | 30.110     | 30.375 | 44.9             | 34.8   | 34.3 | 50.7 | 238                | 186    | 80                 | 92     | SW                         | 0.6    | SW            | 0.3    | 6     | 1                               | 0.75                      |
| 18    | 30.421     | 30.429 | 42.9             | 33.7   | 20.6 | 53.6 | 205                | 181    | 75                 | 93     | SW                         | 0.1    | SW            | 0.1    | 0     | 0                               | —                         |
| 19    | 30.406     | 30.345 | 32.8             | 32.8   | 24.5 | 54.9 | 105                | 165    | 89                 | 89     | Calm                       | 0      | N             | 0.1    | 0     | 0                               | —                         |
| 20    | 30.292     | 30.221 | 37.8             | 45.3   | 31.1 | 53.8 | 215                | 244    | 95                 | 81     | Calm                       | 0      | NW            | 0.3    | 10    | 2                               | —                         |
| 21    | 30.172     | 30.103 | 50.5             | 48.9   | 40.0 | 57.7 | 272                | 294    | 75                 | 86     | SW                         | 0.1    | SW            | 0.3    | 1     | 10                              | 0.60                      |
| 22    | 29.913     | 29.759 | 50.2             | 55.5   | 47.7 | 56.4 | 322                | 422    | 89                 | 96     | S                          | 2.2    | SW            | 0.6    | 10    | 10                              | 1.80                      |
| 23    | 30.804     | 30.809 | 54.9             | 47.2   | 47.2 | 57.9 | 386                | 305    | 90                 | 95     | SW                         | 1.2    | SW            | 0.1    | 10    | 4                               | 2.81                      |
| 24    | 30.567     | 30.497 | 48.7             | 41.8   | 41.8 | 54.8 | 308                | 249    | 90                 | 95     | S                          | 0.3    | SW            | 0.1    | 10    | 3                               | 2.30                      |
| 25    | 30.569     | 30.473 | 44.6             | 45.2   | 34.5 | 53.8 | 248                | 283    | 84                 | 94     | SW                         | 0.3    | E             | 0.1    | 0     | 6                               | 1.75                      |
| 26    | 30.266     | 30.434 | 49.7             | 49.6   | 45.2 | 51.9 | 355                | 343    | 99                 | 97     | E                          | 0.1    | Calm          | 0      | 10    | 10                              | 2.20                      |
| 27    | 30.799     | 30.666 | 40.2             | 41.7   | 40.1 | 58.5 | 246                | 246    | 96                 | 93     | Calm                       | 0      | Calm          | 0      | 4     | 0.25                            | ☁ before 9a. Watery moon. |
| 28    | 29.865     | 29.917 | 52.2             | 46.6   | 41.0 | 55.7 | 348                | 289    | 89                 | 92     | SW                         | 1.2    | W             | 0.1    | 8     | 1                               | 1.43                      |
| 29    | 30.118     | 30.071 | 47.5             | 47.0   | 43.8 | 57.7 | 304                | 298    | 94                 | 93     | Calm                       | 0      | W             | 0.1    | 9     | 10                              | 2.20                      |
| 30    | 29.779     | 29.653 | 53.1             | 53.3   | 46.2 | 58.0 | 389                | 370    | 96                 | 91     | S                          | 3.6    | W             | 5.3    | 10    | 10                              | 5.13                      |
| 31    | 29.857     | 29.686 | 50.6             | 54.9   | 47.2 | 59.0 | 343                | 388    | 93                 | 90     | SW                         | 0.6    | SW            | 0.3    | 10    | 10                              | 0.30                      |
| 32    | 30.178     | 30.330 | 49.7             | 45.9   | 45.1 | 56.7 | 270                | 261    | 77                 | 86     | W                          | 0.8    | W             | 0.3    | 0     | 0                               | —                         |
| Means | 30.050     | 30.041 | 48.6             | 45.7   | 39.2 | 57.6 | 293                | 279    | 84.9               | 89.8   | 0.5                        | 0.5    | 5.0           | 4.5    | 2.493 |                                 |                           |



## RAMSGATE.

Height above Mean Sea Level, 105 feet. Long. 1° 25' E. Lat. 51° 20' N.

OCTOBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks.                                    |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|---------------------------------------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |                                             |
| 1     | ins.       | ins.   | 56.8             | 53.1   | 49.5 | 60.2 | ins.               | ins.   | 75                 | 86     | NE 1                       | NW 1   | 10            | 10     | ins.   | a. and p.                                   |
| 2     | 30.145     | 30.134 | 56.8             | 53.1   | 49.5 | 60.2 | 35.2               | 34.9   | 75                 | 86     | NE 1                       | NW 1   | 10            | 10     | ins.   | a. and p.                                   |
| 3     | 30.036     | 29.974 | 54.2             | 51.0   | 48.9 | 59.6 | 30.6               | 31.5   | 72                 | 84     | NW 3                       | Calm 0 | 3             | 10     | —      | ga.                                         |
| 4     | 29.983     | 30.037 | 55.9             | 54.2   | 46.3 | 60.3 | 33.0               | 30.4   | 75                 | 72     | N 3                        | NE 3   | 5             | 7      | —      | ga.                                         |
| 5     | 30.135     | 27.3   | 56.2             | 53.7   | 46.6 | 61.4 | 31.6               | 29.8   | 70                 | 73     | NE 4                       | N 4    | 5             | 2      | —      | ga.                                         |
| 6     | 30.141     | 55.6   | 57.2             | 53.0   | 52.1 | 60.4 | 33.5               | 27.7   | 71                 | 69     | NE 3                       | NE 6   | 5             | 2      | —      | ga. in squalls gp.                          |
| 7     | 30.138     | 57.9   | 56.7             | 52.1   | 51.8 | 59.4 | 30.8               | 61     | 79                 | NE 4   | NE 5                       | 0      | 2             | —      | ga.    |                                             |
| 8     | 30.147     | 58.1   | 53.0             | 52.5   | 43.4 | 55.3 | 31.6               | 34.9   | 78                 | 89     | NW 2                       | SW 5   | 6             | 10     | —      | ga. in afternoon. [wind.                    |
| 9     | 30.157     | 58.2   | 52.9             | 47.1   | 46.8 | 53.8 | 26.9               | 24.8   | 68                 | 77     | NW 6                       | NW 6   | 10            | 3      | 0.20   | ga. in squalls all day. $\Delta^0$ Violent  |
| 10    | 30.162     | 30.279 | 50.2             | 49.2   | 45.4 | 56.6 | 27.7               | 27.5   | 77                 | 79     | NW 6                       | NE 1   | 5             | 5      | —      | ga. in squalls a. and p.                    |
| 11    | 30.162     | 29.931 | 48.0             | 51.3   | 39.8 | 56.7 | 28.1               | 30.2   | 85                 | 80     | W 1                        | SW 4   | 5             | 10     | 1.83   | ga. in squalls p.                           |
| 12    | 29.851     | 29.956 | 51.4             | 48.5   | 47.8 | 55.4 | 27.5               | 25.3   | 74                 | 74     | NW 5                       | SW 4   | 4             | 3      | —      | ga. in squalls a.                           |
| 13    | 29.916     | 30.060 | 52.0             | 45.2   | 44.9 | 55.2 | 28.0               | 26.2   | 73                 | 88     | W 5                        | W 1    | 4             | 7      | 0.65   | ga. in squalls all day.                     |
| 14    | 29.970     | 29.918 | 57.0             | 57.5   | 42.9 | 60.0 | 38.6               | 34.9   | 82                 | 74     | SW 7                       | SW 7   | 9             | 9      | —      | ga. in squalls all day.                     |
| 15    | 29.870     | 29.654 | 60.7             | 62.5   | 53.9 | 63.4 | 37.4               | 35.5   | 71                 | 63     | S 6                        | S 7    | 6             | 1      | —      | ga. in squalls all day.                     |
| 16    | 29.694     | 30.022 | 52.6             | 46.9   | 46.0 | 63.2 | 29.8               | 24.4   | 75                 | 77     | SW 8                       | SW 6   | 10            | 1      | 0.09   | ga. in squalls all day. [ $\Delta$ sp.—rop. |
| 17    | 30.059     | 30.1   | 49.2             | 42.2   | 41.9 | 54.1 | 24.6               | 20.6   | 70                 | 78     | SW 4                       | SW 3   | 5             | 1      | 0.78   | a. and p. $\Delta$ . Vivid flashes of       |
| 18    | 30.129     | 30.177 | 44.9             | 41.1   | 33.1 | 52.1 | 20.3               | 21.8   | 69                 | 85     | SW 3                       | W 1    | 0             | 3      | 0.25   | ga. First frost this autumn.                |
| 19    | 30.147     | 30.12  | 41.6             | 39.2   | 30.4 | 51.2 | 19.9               | 17.4   | 76                 | 73     | W 2                        | W 2    | 7             | 0      | —      | ga.                                         |
| 20    | 30.161     | 23.5   | 46.4             | 47.2   | 35.1 | 56.3 | 25.3               | 25.3   | 81                 | 79     | W 3                        | SW 2   | 8             | 9      | —      | ga.                                         |
| 21    | 30.235     | 30.141 | 47.2             | 48.2   | 38.1 | 59.7 | 25.1               | 26.9   | 79                 | 80     | SW 4                       | Calm 0 | 3             | 2      | —      | ga.                                         |
| 22    | 29.984     | 29.848 | 53.1             | 55.9   | 45.6 | 57.0 | 27.8               | 34.0   | 69                 | 77     | S 5                        | SW 7   | 10            | 10     | 0.29   | Squalls gp. and before.                     |
| 23    | 29.875     | 29.767 | 57.5             | 55.5   | 51.1 | 59.0 | 39.7               | 40.0   | 83                 | 91     | SW 4                       | SW 5   | 6             | 10     | 0.36   | Squalls a. and p.                           |
| 24    | 29.629     | 29.498 | 53.0             | 48.2   | 44.1 | 57.3 | 38.5               | 28.4   | 96                 | 84     | SE 3                       | SW 4   | 10            | 4      | 0.95   | Squalls a. and p.                           |
| 25    | 29.512     | 29.535 | 46.6             | 48.8   | 40.8 | 54.4 | 24.7               | 30.7   | 78                 | 89     | W 4                        | W 5    | 5             | 10     | 0.748  | ga.                                         |
| 26    | 29.352     | 29.840 | 50.4             | 50.2   | 47.8 | 51.7 | 35.6               | 35.8   | 97                 | 99     | SE 4                       | NW 2   | 10            | 10     | 0.245  | ga.                                         |
| 27    | 29.735     | 29.773 | 49.6             | 47.4   | 46.9 | 56.2 | 30.9               | 29.9   | 88                 | 91     | NW 2                       | SW 1   | 8             | 0      | —      | ga.                                         |
| 28    | 29.952     | 29.913 | 53.7             | 49.5   | 45.4 | 56.2 | 33.9               | 34.4   | 81                 | 97     | SW 4                       | SW 1   | 7             | 5      | 0.525  | $\Delta$ in day.                            |
| 29    | 30.061     | 30.162 | 50.6             | 47.2   | 44.0 | 57.2 | 31.7               | 29.4   | 86                 | 91     | SW 3                       | NW 1   | 2             | 6      | —      | ga.                                         |
| 30    | 29.938     | 29.993 | 52.6             | 57.1   | 44.1 | 57.4 | 34.8               | 45.4   | 87                 | 97     | SE 6                       | S 6    | 10            | 10     | 1.138  | Very stormy from ga.—gp.                    |
| 31    | 29.857     | 29.688 | 51.9             | 58.8   | 47.1 | 59.3 | 36.0               | 41.3   | 93                 | 84     | SW 2                       | SW 6   | 5             | 10     | —      | ga. Squalls gp. and before.                 |
| Means | 30.023     | 30.023 | 52.1             | 50.5   | 44.9 | 57.4 | 30.4               | 30.2   | 77.7               | 81.7   | 3.9                        | 3.5    | 6.0           | 5.9    | 2.221  | Squalls before ga.                          |

## HASTINGS.

Height above Mean Sea Level, 172 feet. Long. 0° 38' E. Lat. 50° 52' N.

OCTOBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |           | Cloud Amount. |        | Rain.  | Remarks.                                         |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|-----------|---------------|--------|--------|--------------------------------------------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m.    | 9 a.m.        | 9 p.m. | 9 a.m. |                                                  |
| 1     | 30.161     | 30.147 | 52.0             | 51.1   | 47.1 | 60.4 | 38.2               | 33.5   | 99                 | 89     | NE 2                       | NNE 1     | 10            | 4      | —      | ga.                                              |
| 2     | 30.083     | 30.12  | 47.2             | 47.4   | 43.0 | 58.2 | 30.5               | 28.5   | 95                 | 87     | NE 4                       | NE 1      | 0             | 0      | —      | ga.                                              |
| 3     | 30.009     | 30.21  | 50.4             | 48.4   | 43.7 | 60.0 | 30.1               | 29.1   | 83                 | 86     | NNE 1                      | NE 3      | 0             | 5      | —      | ga.                                              |
| 4     | 30.152     | 28.6   | 53.0             | 46.2   | 45.2 | 59.2 | 30.8               | 26.0   | 76                 | 84     | N 1                        | NE 4      | 3             | 0      | —      | ga.                                              |
| 5     | 30.423     | 52.8   | 52.9             | 52.7   | 43.7 | 60.0 | 33.4               | 29.8   | 84                 | 75     | NE 3                       | NE 5-6    | 0             | 0      | —      | ga.                                              |
| 6     | 30.647     | 56.18  | 53.4             | 46.6   | 44.6 | 59.2 | 28.6               | 28.8   | 70                 | 92     | NE 1                       | NE 3      | 0             | 1      | 0.10   | ga.                                              |
| 7     | 30.538     | 58.1   | 47.5             | 49.5   | 40.2 | 55.5 | 31.1               | 33.1   | 95                 | 93     | N 1                        | W 0-1     | 8             | 10     | —      | early a.                                         |
| 8     | 30.131     | 59.5   | 52.4             | 43.4   | 42.7 | 54.8 | 27.8               | 22.9   | 71                 | 80     | N 5                        | NNW 6     | 8             | 0      | —      | a. Faint $\odot$ a.                              |
| 9     | 30.266     | 30.304 | 47.2             | 43.9   | 39.8 | 55.6 | 25.1               | 24.9   | 78                 | 87     | NNE 6                      | NNE 4-5   | 0             | 0      | —      | Partial, prismatic $\odot$ ga. $\infty$ ga. with |
| 10    | 30.191     | 29.989 | 50.1             | 54.0   | 40.8 | 55.4 | 30.4               | 32.7   | 84                 | 75     | SSW 1                      | SW 4      | 2             | 10     | 0.265  | Partial, prismatic $\odot$ ga. $\infty$ ga. with |
| 11    | 29.930     | 29.983 | 50.5             | 49.8   | 47.5 | 55.8 | 27.8               | 26.7   | 76                 | 75     | NNW 5-6                    | WSW 6     | 1             | 8      | —      | Partial, prismatic $\odot$ of 46° and 92°, ga.   |
| 12    | 29.988     | 30.075 | 50.3             | 49.0   | 44.2 | 58.0 | 28.6               | 26.5   | 79                 | 76     | W 5                        | Calm 0    | 6             | 10     | 0.120  | Roar of sea very distinct ga.                    |
| 13    | 29.951     | 29.933 | 50.3             | 57.9   | 47.6 | 58.0 | 40.0               | 38.9   | 89                 | 81     | SW-WSW 7                   | SSW-5 5-6 | 10            | 8      | 0.10   | n. and a. $\Delta$ p. Squalls in aft.            |
| 14    | 29.896     | 29.679 | 57.9             | 60.3   | 55.1 | 63.6 | 38.9               | 41.5   | 81                 | 80     | SW 3                       | S 4       | 3             | 0      | 0.070  | ga.                                              |
| 15    | 29.750     | 30.062 | 51.4             | 48.0   | 45.4 | 61.8 | 31.5               | 24.1   | 83                 | 72     | SW 8-9                     | WSW 7-8   | 10            | 1      | 0.060  | ga.                                              |
| 16    | 30.104     | 30.334 | 49.4             | 39.8   | 39.0 | 52.8 | 25.0               | 21.1   | 71                 | 87     | W 4                        | N 5       | 3             | 0      | —      | ga.                                              |
| 17    | 30.415     | 30.395 | 42.9             | 43.4   | 32.9 | 52.0 | 19.6               | 22.9   | 72                 | 80     | W 5                        | NNW 0-1   | 0             | 9      | —      | ga.                                              |
| 18    | 30.394     | 30.337 | 45.1             | 42.8   | 34.7 | 52.6 | 18.2               | 19.7   | 61                 | 73     | NE 0-1                     | E 0-1     | 0             | 0      | —      | ga.                                              |
| 19    | 30.299     | 30.258 | 50.2             | 49.3   | 39.0 | 55.6 | 28.1               | 22.8   | 78                 | 65     | Calm 0                     | SSW 4     | 10            | 5      | —      | ga.                                              |
| 20    | 30.200     | 30.166 | 53.0             | 52.3   | 47.0 | 56.2 | 30.2               | 28.4   | 75                 | 72     | SW 4                       | SSW 2     | 0             | 2      | —      | ga.                                              |
| 21    | 30.024     | 29.880 | 54.9             | 55.7   | 51.5 | 56.4 | 31.2               | 39.4   | 72                 | 89     | SSW 4                      | SSW 6-7   | 10            | 10     | 1.195  | Partial $\odot$ ip.                              |
| 22    | 29.893     | 29.825 | 55.2             | 53.1   | 52.6 | 59.2 | 43.1               | 36.2   | 99                 | 89     | SW 6                       | WSW 2     | 10            | 10     | 0.200  | ga.                                              |
| 23    | 29.653     | 29.510 | 54.0             | 51.1   | 45.8 | 57.4 | 41.2               | 29.7   | 99                 | 79     | S 3                        | W 6       | 10            | 9      | 0.090  | ga.                                              |
| 24    | 29.586     | 29.549 | 44.2             | 51.4   | 40.8 | 54.0 | 24.3               | 34.5   | 84                 | 91     | W 3                        | SW 7      | 0             | 10     | 0.880  | ga.                                              |
| 25    | 29.338     | 29.377 | 51.5             | 51.0   | 49.9 | 55.3 | 36.7               | 35.3   | 96                 | 94     | SSW 4                      | NNW 3     | 10            | 10     | 0.470  | ga.                                              |
| 26    | 29.787     | 29.003 | 48.8             | 48.2   | 46.9 | 56.3 | 32.1               | 32.8   | 93                 | 98     | NNW 1                      | Calm 0    | 10            | 0      | 0.100  | ga.                                              |
| 27    | 29.978     | 29.932 | 54.9             | 52.3   | 47.2 | 56.6 | 33.9               | 36.2   | 78                 | 93     | SSW 5                      | WSW 4     | 8             | 3      | 0.900  | ga.                                              |
| 28    | 30.092     | 30.162 | 49.0             | 48.0   | 43.4 | 57.5 | 30.6               | 31.2   | 89                 | 94     | W 2                        | Calm 0    | 8             | 0      | —      | ga.                                              |
| 29    | 29.964     | 29.649 | 53.6             | 50.6   | 46.5 | 56.8 | 34.2               | 44.1   | 82                 | 96     | SSW 5                      | WSW 6     | 10            | 10     | 0.480  | ga.                                              |
| 30    | 29.903     | 29.734 | 51.2             | 57.0   | 46.6 | 58.3 | 35.3               | 42.5   | 94                 | 91     | WSW 2                      | sw-WSW 9  | 8             | 10     | 0.050  | ga.                                              |
| 31    | 30.169     | 30.330 | 50.6             | 49.0   | 47.2 | 57.9 | 28.4               | 25.2   | 77                 | 72     | W 3                        | W 1       | 2             | 8      | —      | ga.                                              |
| Means | 30.062     | 30.050 | 51.0             | 50.0   | 44.6 | 57.0 | 31.1               | 30.6   | 82.7               | 83.8   | 3.4                        | 3.6       | 5.2           | 4.9    | 3.810  | ga.                                              |

## DARTMOOR.

Height above Mean Sea Level, 1,372 feet. Long. 3° 59' W. Lat. 50° 33' N.

OCTOBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks.                                                                   |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------------------------------------------------------------------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |                                                                            |
|       | ins.       | ins.   | °                | °      | °    | °    | in.                | in.    | %                  | %      | E                          | E      | 0             | 0      | ins.   |                                                                            |
| 1     | 30.251     | 30.268 | 54.0             | 45.0   | 42.2 | 60.2 | .206               | .275   | 71                 | 92     | E 4                        | E 1    | 0             | 0      | —      | Very fine day.                                                             |
| 2     | *133       | *036   | 54.3             | 46.6   | 40.0 | 57.4 | .321               | .294   | 76                 | 93     | E 2                        | SE 5   | 0             | 0      | —      | D <sup>2</sup>                                                             |
| 3     | *061       | *137   | 51.5             | 43.6   | 40.0 | 57.0 | *317               | *262   | 83                 | 92     | SE 5                       | E 1    | 5             | 2      | —      | D <sup>2</sup>                                                             |
| 4     | *236       | *371   | 51.5             | 43.6   | 39.0 | 58.0 | *317               | *284   | 83                 | 100    | E 2                        | Calm 0 | 5             | 0      | *010   | D                                                                          |
| 5     | *485       | *579   | 49.4             | 44.6   | 39.0 | 56.5 | *306               | *295   | 88                 | 100    | SE 1                       | E 4    | 7             | 0      | *010   | ∞ <sup>0</sup> D                                                           |
| 6     | *672       | *708   | 48.8             | 46.6   | 41.0 | 56.0 | *292               | *238   | 84                 | 75     | E 5                        | Calm 0 | 8             | 4      | —      | Sharp cold E. wind all day.                                                |
| 7     | *630       | *493   | 49.0             | 49.5   | 39.0 | 57.0 | *245               | *328   | 71                 | 94     | Calm 0                     | NW 4   | 10            | 6      | —      |                                                                            |
| 8     | *354       | *410   | 49.5             | 42.2   | 41.4 | 52.0 | *321               | *226   | 91                 | 85     | N 4                        | N 2    | 10            | 2      | *010   | D                                                                          |
| 9     | *436       | *442   | 44.6             | 39.4   | 35.4 | 51.8 | *212               | *187   | 92                 | 78     | E 5                        | Calm 0 | 0             | 0      | —      | Bright, fine day.                                                          |
| 10    | *260       | *050   | 44.2             | 48.5   | 37.6 | 48.6 | *263               | *342   | 91                 | 100    | NW 1                       | SW 6   | 10            | 10     | *140   | ☼☼☼ gp. Wind rose after shifting to SW.                                    |
| 11    | *123       | *106   | 45.6             | 39.6   | 30.6 | 50.2 | *260               | *327   | 85                 | 94     | NW 4                       | NW 1   | 4             | 5      | *090   | ☼☼☼                                                                        |
| 12    | *122       | 30.070 | 46.6             | 49.0   | 41.0 | 52.6 | *303               | *336   | 96                 | 97     | NW 4                       | SW 4   | 10            | 10     | *340   | ☼☼☼ gp.                                                                    |
| 13    | 30.006     | 29.878 | 50.5             | 52.0   | 48.0 | 52.0 | *367               | *374   | 100                | 97     | W 1                        | SW 5   | 10            | 10     | *040   | ☼☼☼ before gp.                                                             |
| 14    | 29.792     | 29.440 | 55.5             | 56.5   | 51.4 | 62.6 | *410               | *403   | 94                 | 88     | SSW 5                      | SW 9   | 10            | 10     | *060   | A fine day, but warm α. Clouds cleared [about Noon, with wind SW, force 7. |
| 15    | 29.724     | 30.180 | 43.4             | 40.2   | 36.5 | 56.6 | *238               | *197   | 84                 | 80     | W 1                        | W 4    | 10            | 5      | *430   | ▲ in day.                                                                  |
| 16    | 30.267     | *498   | 41.6             | 35.6   | 34.6 | 46.0 | *221               | *177   | 85                 | 85     | NW 3                       | Calm 0 | 6             | 0      | *090   | ▲ α. and p.                                                                |
| 17    | *515       | *524   | 43.6             | 39.0   | 32.0 | 47.6 | *214               | *192   | 75                 | 81     | Calm 0                     | Calm 0 | 5             | 3      | —      | Fine cold day.                                                             |
| 18    | *427       | *353   | 43.0             | 42.2   | 34.8 | 46.6 | *246               | *204   | 89                 | 77     | Calm 0                     | E 3    | 9             | 0      | —      | ☼ 45°                                                                      |
| 19    | *321       | *286   | 45.0             | 40.6   | 39.0 | 47.4 | *225               | *220   | 76                 | 87     | SW 3                       | Calm 0 | 10            | 2      | —      | ▲ before gp.                                                               |
| 20    | 30.222     | 30.113 | 47.6             | 48.6   | 39.8 | 53.0 | *290               | *327   | 89                 | 96     | SW 2                       | SW 5   | 6             | 10     | 1.060  |                                                                            |
| 21    | 29.897     | 29.848 | 50.1             | 50.7   | 47.6 | 53.0 | *362               | *370   | 100                | 100    | S 5                        | SW 5   | 5             | 10     | 1.360  | Wind rose to force 9 at 2p.                                                |
| 22    | *855       | *907   | 51.5             | 45.0   | 38.6 | 48.6 | *381               | *290   | 100                | 100    | SW 6                       | SW 2   | 10            | 10     | *440   | ☼☼☼ ga. and before. Squalls during day.                                    |
| 23    | *559       | *642   | 48.6             | 40.0   | 38.6 | 48.6 | *343               | *226   | 100                | 92     | SW 4                       | Calm 0 | 10            | 10     | *380   | ☼☼☼ ga. and before. ▲ ☉.                                                   |
| 24    | *684       | *538   | 41.6             | 47.6   | 36.0 | 47.6 | *229               | *330   | 88                 | 100    | W 2                        | SW 2   | 7             | 10     | *720   |                                                                            |
| 25    | *272       | 29.572 | 51.7             | 47.6   | 46.4 | 53.2 | *384               | *315   | 100                | 96     | SW 1                       | NW 4   | 10            | 10     | *190   | ☼☼☼ ga. and before.                                                        |
| 26    | *912       | 30.027 | 47.6             | 47.0   | 43.8 | 50.2 | *305               | *312   | 93                 | 97     | NW 4                       | SW 4   | 5             | 10     | *110   | ☼☼☼ before ga.                                                             |
| 27    | 29.910     | *023   | 49.4             | 45.6   | 44.4 | 52.0 | *353               | *292   | 100                | 96     | W 1                        | Calm 0 | 7             | 10     | 1.800  | Wind rose at 11p.                                                          |
| 28    | 30.213     | 30.151 | 46.2             | 44.4   | 41.0 | 52.0 | *298               | *330   | 96                 | 100    | W 1                        | Calm 0 | 7             | 10     | *820   | ☼☼☼ gp.                                                                    |
| 29    | 29.724     | 29.763 | 54.1             | 50.5   | 47.2 | 54.6 | *419               | *367   | 100                | 100    | SSW 7                      | S 1    | 10            | 10     | *290   | ☼☼☼ ga. and before. Squalls gp. and [before.                               |
| 30    | 29.913     | 29.858 | 50.5             | 51.0   | 47.0 | 55.0 | *367               | *374   | 100                | 100    | SW 5                       | SW 9   | 10            | 10     | *290   |                                                                            |
| 31    | 30.327     | 30.470 | 46.2             | 44.6   | 43.8 | 51.4 | *313               | *230   | 100                | 78     | NW 1                       | NW 1   | 9             | 0      | —      |                                                                            |
| Means | 30.113     | 30.121 | 48.3             | 45.8   | 41.0 | 52.9 | *304               | *288   | 89.0               | 91.9   | 3.0                        |        | 7.5           | 5.7    | 8.480  |                                                                            |



## ST. AUBIN'S, JERSEY.

Height above Mean Sea Level, 139 feet. Long. 2° 10' W. Lat. 49° 11' N.

OCTOBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks.                             |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|--------------------------------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |                                      |
| 1     | ins.       | ins.   | 61.3             | 55.2   | 54.2 | 65.0 | in.                | in.    | %                  | %      | NE 2                       | NE 2   | 4             | 0      | ins.   | ☁ a. and p.                          |
| 2     | 30.176     | 30.167 | 58.9             | 53.6   | 52.0 | 63.9 | 358                | 318    | 73                 | 77     | E 2                        | NE 3   | 0             | 0      | 0.001  | ☁ a. Very fine day.                  |
| 3     | 30.007     | 30.050 | 57.5             | 52.0   | 49.8 | 59.8 | 329                | 313    | 70                 | 81     | E 2                        | E 1    | 0             | 0      | 0.001  | ☁ a. and p. Very fine day.           |
| 4     | 30.157     | 30.287 | 59.4             | 53.8   | 49.2 | 63.8 | 348                | 308    | 69                 | 74     | NE 3                       | NE 2   | 5             | 0      | 0.001  | ☁ a. and p. Very fine day.           |
| 5     | 30.374     | 30.473 | 55.3             | 55.5   | 51.5 | 61.7 | 325                | 365    | 74                 | 83     | E 3                        | E 4    | 1             | 1      | 0.001  | Very fine day.                       |
| 6     | 30.585     | 30.589 | 57.2             | 54.3   | 49.0 | 61.2 | 311                | 310    | 66                 | 74     | NE 3                       | NE 2   | 0             | 0      | 0.001  | Very fine day.                       |
| 7     | 30.568     | 30.435 | 57.7             | 53.3   | 48.4 | 60.1 | 323                | 346    | 68                 | 85     | NE 2                       | NE 1   | 2             | 2      | 0.001  | ☁ at intervals. ☁ p.                 |
| 8     | 30.250     | 30.276 | 56.8             | 52.0   | 51.2 | 59.2 | 354                | 237    | 76                 | 62     | N 4                        | NE 3   | 1             | 4      | 0.001  | Gusty top.                           |
| 9     | 30.333     | 30.332 | 53.8             | 50.8   | 48.2 | 55.5 | 266                | 257    | 64                 | 69     | NE 3                       | NE 2   | 5             | 2      | 0.001  | ☁ before 9a.                         |
| 10    | 30.249     | 30.100 | 53.6             | 54.3   | 47.8 | 55.6 | 323                | 331    | 78                 | 78     | Calm                       | SW 2   | 10            | 10     | 0.074  | ☁ before 9a.                         |
| 11    | 30.115     | 30.137 | 55.9             | 52.3   | 51.1 | 62.0 | 251                | 305    | 55                 | 77     | N 3                        | W 1    | 5             | 10     | 0.050  | ☁ before 9a.                         |
| 12    | 30.135     | 30.155 | 57.4             | 55.7   | 50.1 | 61.7 | 337                | 346    | 71                 | 78     | NW 2                       | W 4    | 9             | 2      | 0.001  | Beautiful sunset.                    |
| 13    | 30.096     | 30.096 | 57.5             | 55.7   | 55.1 | 61.6 | 354                | 346    | 75                 | 78     | SW 4                       | SW 2   | 9             | 0      | 0.001  | Sea roaring.                         |
| 14    | 30.914     | 30.655 | 60.0             | 64.8   | 54.3 | 67.3 | 367                | 382    | 71                 | 62     | S 3                        | S 5    | 1             | 6      | 0.081  | Very fine early a. ☁ in squalls p.   |
| 15    | 30.935     | 30.238 | 51.2             | 47.8   | 40.6 | 65.1 | 328                | 245    | 87                 | 74     | W 4                        | W 1    | 10            | 3      | 0.213  | Squally a.                           |
| 16    | 30.259     | 30.433 | 52.3             | 45.2   | 44.4 | 56.7 | 334                | 241    | 85                 | 81     | W 2                        | N 1    | 9             | 2      | 0.052  | Squally at times a.                  |
| 17    | 30.494     | 30.439 | 52.4             | 48.1   | 43.0 | 56.0 | 247                | 260    | 63                 | 77     | Calm                       | NE 1   | 7             | 9      | 0.001  | ☁ at intervals.                      |
| 18    | 30.390     | 30.340 | 51.3             | 48.1   | 45.9 | 55.9 | 233                | 240    | 62                 | 71     | S 2                        | E 1    | 5             | 0      | 0.001  | Very fine all day.                   |
| 19    | 30.331     | 30.290 | 49.3             | 48.0   | 45.7 | 51.8 | 218                | 201    | 62                 | 61     | SE 3                       | SE 2   | 10            | 0      | 0.001  | ☁ at intervals.                      |
| 20    | 30.248     | 30.175 | 54.6             | 53.3   | 44.9 | 57.4 | 276                | 244    | 65                 | 60     | SE 2                       | S 2    | 1             | 1      | 0.001  | Very fine day. ☁ p. ☁ p.             |
| 21    | 30.034     | 30.007 | 53.6             | 50.9   | 50.0 | 56.9 | 353                | 451    | 86                 | 98     | S 4                        | S 3    | 10            | 10     | 0.122  | ☁ p. ☁ p. Clouds moving fast p.      |
| 22    | 30.979     | 30.926 | 58.5             | 53.2   | 53.0 | 63.0 | 417                | 374    | 86                 | 93     | SW 3                       | Calm   | 8             | 3      | 0.350  | Squally a.                           |
| 23    | 30.639     | 30.594 | 57.0             | 53.1   | 49.0 | 58.9 | 450                | 287    | 97                 | 71     | S 2                        | SW 4   | 10            | 9      | 0.222  | ☁ p.                                 |
| 24    | 30.699     | 30.645 | 56.3             | 53.5   | 45.0 | 57.6 | 269                | 336    | 99                 | 82     | W 2                        | SW 5   | 4             | 10     | 0.350  | ☁ p.                                 |
| 25    | 30.299     | 30.541 | 57.3             | 54.1   | 52.2 | 57.0 | 461                | 390    | 98                 | 93     | WSW 4                      | NW 2   | 10            | 8      | 0.608  | ☁ p.                                 |
| 26    | 30.878     | 30.061 | 58.9             | 52.3   | 51.2 | 63.2 | 346                | 302    | 70                 | 77     | NW 2                       | NW 1   | 3             | 4      | 0.003  | Double ☁ 10.30p.                     |
| 27    | 30.032     | 30.047 | 55.2             | 53.8   | 51.5 | 59.0 | 351                | 369    | 81                 | 88     | SW 4                       | W 2    | 9             | 4      | 0.534  | ☁ 2 (0.5 in. in 10 minutes) 6p. ☁ p. |
| 28    | 30.209     | 30.199 | 59.2             | 54.5   | 51.0 | 64.0 | 347                | 357    | 69                 | 85     | W 1                        | W 1    | 4             | 8      | 0.633  | Dead calm at times.                  |
| 29    | 30.967     | 30.764 | 55.5             | 57.3   | 53.0 | 58.8 | 424                | 470    | 96                 | 100    | S 3                        | Calm   | 10            | 10     | 0.456  | Very fine double ☁ 3.30p.            |
| 30    | 30.999     | 30.973 | 55.3             | 58.4   | 53.0 | 62.1 | 420                | 375    | 96                 | 77     | SW 3                       | SW 5   | 9             | 7      | 0.001  |                                      |
| 31    | 30.316     | 30.448 | 55.4             | 53.3   | 52.1 | 60.1 | 324                | 276    | 74                 | 68     | NW 2                       | W 1    | 4             | 9      | 0.002  |                                      |
| Means | 30.122     | 30.118 | 56.0             | 53.4   | 49.8 | 60.1 | 337                | 332    | 74.9               | 78.2   | 2.5                        | 2.1    | 5.9           | 4.3    | 2.614  |                                      |

## MARKREE CASTLE.

Height above Mean Sea Level, 131 feet. Long. 8° 27' W. Lat. 54° 11' N.

OCTOBER 1877.

|       |        |        |      |      |      |      |     |     |      |      |      |   |      |     |     |       |      |                                    |
|-------|--------|--------|------|------|------|------|-----|-----|------|------|------|---|------|-----|-----|-------|------|------------------------------------|
| 1     | 30°209 | 30°146 | 53°7 | 48°8 | 44°5 | 61°9 | 367 | 331 | 89   | 95   | SE   | 1 | Calm | 0   | 8   | 9     | —    | ☁ 8a. ☁ 2 p.                       |
| 2     | 29°991 | 29°842 | 47°3 | 54°1 | 45°9 | 60°4 | 319 | 367 | 98   | 88   | SE   | 4 | SE   | 3   | 10  | 9     | —    | ☁ 9a.                              |
| 3     | 29°887 | 29°913 | 54°8 | 55°3 | 50°3 | 61°1 | 381 | 375 | 89   | 86   | ESE  | 3 | ESE  | 3   | 10  | 10    | °003 | a.                                 |
| 4     | 30°003 | 30°158 | 56°4 | 57°1 | 53°8 | 63°4 | 416 | 442 | 92   | 94   | SSE  | 3 | SE   | 2   | 10  | 10    | °022 |                                    |
| 5     | *316   | *511   | 56°5 | 52°6 | 50°4 | 58°8 | 361 | 330 | 80   | 83   | ESE  | 4 | SE   | 2   | 8   | 10    | —    |                                    |
| 6     | *645   | *666   | 50°7 | 47°4 | 45°5 | 59°2 | 348 | 322 | 94   | 98   | SE   | 1 | Calm | 0   | 10  | 0     | °004 | ☁ a. ☁ p.                          |
| 7     | *624   | *543   | 50°8 | 53°0 | 40°2 | 57°0 | 361 | 335 | 97   | 83   | Calm | 0 | NE   | 3   | 10  | 10    | °002 | ☁ 2a.                              |
| 8     | *481   | *486   | 52°4 | 50°3 | 49°5 | 57°4 | 348 | 311 | 88   | 85   | NE   | 4 | NE   | 1   | 10  | 8     | °012 |                                    |
| 9     | 30°407 | 30°232 | 51°2 | 48°5 | 47°4 | 52°6 | 338 | 306 | 89   | 91   | W    | 1 | SSE  | 1   | 10  | 10    | °003 |                                    |
| 10    | 29°895 | 29°869 | 52°2 | 44°9 | 44°9 | 57°0 | 361 | 225 | 92   | 76   | SW   | 3 | NNW  | 2   | 9   | 4     | °351 |                                    |
| 11    | *878   | *850   | 45°9 | 44°3 | 41°3 | 51°9 | 265 | 268 | 86   | 92   | NW   | 3 | WNW  | 2   | 5   | 10    | °310 | T 1p. K 6p.                        |
| 12    | *932   | *546   | 47°1 | 48°9 | 41°4 | 54°1 | 283 | 329 | 88   | 95   | SE   | 1 | SE   | 3   | 8   | 10    | °225 | ☉ 9a.                              |
| 13    | *453   | 29°408 | 57°0 | 55°9 | 48°9 | 63°3 | 414 | 392 | 89   | 88   | S    | 3 | S    | 4   | 9   | 10    | °056 |                                    |
| 14    | *186   | 28°883 | 56°9 | 53°1 | 52°5 | 61°4 | 439 | 376 | 95   | 93   | S    | 5 | SSW  | 2   | 10  | 10    | °882 | ☁ at night. [Squalls 9p]           |
| 15    | 29°535 | 29°745 | 40°2 | 46°3 | 39°3 | 53°1 | 207 | 247 | 83   | 79   | WSW  | 5 | WNW  | 5   | 10  | 8     | °280 | ☁ 7.30a. and 8a. ☁ 3.30p. ☁ 7.30p. |
| 16    | 30°237 | 30°372 | 43°9 | 39°9 | 38°7 | 50°4 | 208 | 224 | 73   | 91   | NW   | 1 | WNW  | 2   | 7   | 5     | °108 |                                    |
| 17    | *393   | *352   | 46°6 | 37°6 | 35°3 | 61°0 | 224 | 304 | 71   | 91   | WNW  | 3 | Calm | 0   | 9   | 10    | °035 | ☁ 9p.                              |
| 18    | *237   | *102   | 44°3 | 51°0 | 36°9 | 55°1 | 261 | 328 | 90   | 87   | SSE  | 3 | SSE  | 2   | 10  | 10    | °085 |                                    |
| 19    | 30°012 | 30°020 | 54°1 | 47°1 | 46°5 | 61°4 | 402 | 310 | 96   | 96   | SSE  | 1 | Calm | 0   | 10  | 10    | °008 | ☁ 7p. ☁ 9p.                        |
| 20    | 29°919 | 29°657 | 51°5 | 56°5 | 47°1 | 57°4 | 360 | 421 | 98   | 92   | SSE  | 3 | SSE  | 4   | 10  | 10    | °202 |                                    |
| 21    | *296   | *432   | 58°8 | 51°5 | 50°9 | 60°2 | 386 | 336 | 78   | 89   | SSW  | 5 | SW   | 2   | 8   | 7     | °160 | Double ☁ 6.30p.                    |
| 22    | *383   | *533   | 52°6 | 43°5 | 41°5 | 55°4 | 330 | 235 | 83   | 83   | WNW  | 2 | SW   | 1   | 9   | 8     | °288 | ☁ 3.30p. ☁ p.                      |
| 23    | *255   | *393   | 43°3 | 40°3 | 40°0 | 51°4 | 270 | 217 | 96   | 88   | SSW  | 1 | NW   | 2   | 10  | 1     | °278 |                                    |
| 24    | *293   | *180   | 47°6 | 49°3 | 33°9 | 51°4 | 300 | 339 | 92   | 97   | SW   | 3 | SW   | 2   | 8   | 10    | °369 | ☁ 0.30a. ☁ 1a. ☁ 8p.               |
| 25    | *276   | *546   | 47°3 | 35°3 | 34°9 | 52°1 | 319 | 207 | 98   | 100  | Calm | 0 | Calm | 0   | 10  | 0     | °008 | ☁ 9p.                              |
| 26    | *665   | *453   | 47°3 | 52°0 | 31°3 | 55°4 | 299 | 340 | 92   | 87   | ESE  | 3 | S    | 5   | 7   | 10    | °378 | ☁ 8a.                              |
| 27    | *471   | *677   | 51°1 | 49°5 | 44°6 | 55°7 | 287 | 297 | 77   | 84   | WNW  | 3 | WNW  | 3   | 2   | 3     | °090 |                                    |
| 28    | *981   | *607   | 48°4 | 52°1 | 43°7 | 55°8 | 315 | 365 | 93   | 93   | SSW  | 2 | SSE  | 4   | 8   | 10    | °128 |                                    |
| 29    | *367   | *483   | 52°9 | 50°1 | 49°6 | 56°6 | 381 | 306 | 95   | 84   | SW   | 1 | WSW  | 2   | 10  | 0     | °020 | ☁ 9a.                              |
| 30    | 29°295 | 29°689 | 53°8 | 47°9 | 47°7 | 59°1 | 389 | 299 | 93   | 91   | SSW  | 4 | WSW  | 4   | 10  | 6     | °336 | ☁ 1.30a.                           |
| 31    | 30°050 | 30°283 | 49°7 | 48°3 | 45°5 | 53°5 | 272 | 265 | 77   | 78   | WNW  | 3 | WNW  | 2   | 8   | 8     | °014 |                                    |
| Means | 29°857 | 29°857 | 55.6 | 48.8 | 44.0 | 56.9 | 330 | 311 | 88.7 | 88.9 | 2.5  |   | 2.2  | 8.5 | 7.3 | 4.576 |      |                                    |

## DUBLIN.

Height above Mean Sea Level, 51 feet. Long. 6° 15' W. Lat. 53° 20' N.

OCTOBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks. |      |                                                                                  |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------|------|----------------------------------------------------------------------------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |          |      |                                                                                  |
| 1     | ins.       | ins.   | 53.1             | 49.9   | 48.2 | 59.0 | in.                | in.    | %                  | %      | Calm                       | 0      | S             | 1      | 7      | 0        | ins. | [pleasant. ☁ 2 p.                                                                |
| 2     | 30.233     | 30.189 | 53.1             | 49.9   | 48.2 | 59.0 | 376                | 336    | 93                 | 94     | Calm                       | 0      | S             | 1      | 7      | 0        | —    | ☁ a. ☁ 9a. ☁ Noon. ☁ p.                                                          |
| 3     | 30.065     | 30.946 | 46.4             | 50.3   | 42.0 | 59.2 | 304                | 347    | 96                 | 95     | Calm                       | 0      | SSE 1         | 1      | 1      | 6        | —    | ☁ a. Very fine day. ☁ 9p.                                                        |
| 4     | 30.967     | 30.022 | 54.9             | 53.4   | 49.2 | 61.0 | 379                | 325    | 89                 | 80     | SSE 2                      | SSE 2  | 2             | 6      | 5      | —        | —    | Very fine, mild and sunny, with ☁.                                               |
| 5     | 30.096     | 30.257 | 56.1             | 52.1   | 50.0 | 63.3 | 398                | 337    | 88                 | 86     | Calm                       | 0      | SSE 1         | 1      | 6      | 0        | —    | ☁ 9a. Brilliant and warm during day.                                             |
| 6     | 30.403     | 30.554 | 54.3             | 49.1   | 48.0 | 59.7 | 387                | 319    | 92                 | 91     | SSE 3                      | S      | 1             | 4      | 3      | —        | —    | ☁ a. Very bright and fine. Cool                                                  |
| 7     | 30.676     | 30.686 | 52.4             | 48.4   | 46.3 | 56.8 | 355                | 326    | 90                 | 96     | Calm                       | 0      | WNW 1         | 8      | 0      | —        | —    | ☁ 9p. [evening.                                                                  |
| 8     | 30.428     | 30.468 | 54.1             | 47.7   | 47.0 | 57.3 | 314                | 267    | 75                 | 81     | N 4                        | NNW 3  | 7             | 0      | —      | —        | —    |                                                                                  |
| 9     | 30.440     | 30.388 | 50.1             | 49.3   | 42.8 | 52.6 | 306                | 301    | 84                 | 86     | NNW 2                      | W 1    | 8             | 10     | —      | —        | —    |                                                                                  |
| 10    | 30.013     | 30.883 | 52.2             | 48.9   | 48.0 | 58.2 | 313                | 302    | 80                 | 88     | WSW 4                      | NW 3   | 9             | 2      | 0.070  | —        | —    | ☁ a. and p. with squalls.                                                        |
| 11    | 30.925     | 30.876 | 46.9             | 48.1   | 42.3 | 53.2 | 238                | 264    | 75                 | 79     | WNW 5                      | WNW 5  | 2             | 4      | —      | —        | —    | ☁ a. and p. with squalls.                                                        |
| 12    | 30.972     | 30.695 | 45.6             | 50.1   | 42.0 | 52.5 | 248                | 338    | 81                 | 93     | WNW 4                      | S      | 2             | 6      | 10     | 174      | —    | ☁ a.                                                                             |
| 13    | 30.588     | 30.561 | 58.2             | 56.9   | 50.0 | 63.3 | 393                | 357    | 81                 | 77     | WSW 6                      | SW 5   | 8             | 6      | —      | —        | —    | ☁ in squalls a. and p. Very warm.                                                |
| 14    | 30.439     | 30.030 | 60.6             | 59.1   | 55.5 | 66.1 | 388                | 382    | 74                 | 76     | SSW 4                      | SSW 5  | 6             | 4      | 232    | —        | —    | Very warm, a. Squally from 100. [Moderate to fresh gale, p.                      |
| 15    | 30.574     | 30.723 | 45.0             | 44.3   | 37.8 | 59.6 | 231                | 263    | 77                 | 91     | W 5                        | W 8    | 4             | 10     | 639    | —        | —    | ☁ 2 in squalls n. and a. ☁ 2 * noon. [7.5° colder at noon to-day than yesterday. |
| 16    | 30.207     | 30.386 | 43.1             | 39.0   | 38.4 | 59.6 | 237                | 188    | 85                 | 80     | WNW 3                      | WNW 3  | 7             | 0      | —      | —        | —    | ☁ 2 colder at noon to-day than yesterday.                                        |
| 17    | 30.423     | 30.390 | 42.5             | 37.0   | 36.9 | 49.1 | 215                | 200    | 79                 | 90     | WNW 3                      | Calm   | 0             | 5      | 3      | —        | —    | ☁ Very bright and fine. ☁ p.                                                     |
| 18    | 30.298     | 30.211 | 45.3             | 49.7   | 36.0 | 54.1 | 277                | 272    | 92                 | 76     | Calm                       | 0      | SW 3          | 9      | 7      | 041      | —    | ☁ a. ☁ 4p.                                                                       |
| 19    | 30.083     | 30.053 | 54.0             | 52.0   | 47.9 | 59.7 | 360                | 361    | 86                 | 93     | SW 4                       | WSW 2  | 5             | 3      | —      | —        | —    | ☁ Brilliant meteor 5.50p.                                                        |
| 20    | 30.006     | 30.802 | 52.1             | 56.0   | 46.8 | 59.2 | 303                | 413    | 93                 | 92     | Calm                       | 0      | S             | 4      | 7      | 100      | —    | ☁ 9a. ☁ in squalls, p.                                                           |
| 21    | 30.459     | 30.554 | 60.2             | 54.7   | 54.5 | 61.6 | 410                | 352    | 79                 | 82     | SSW 4                      | SW 4   | 10            | 4      | 206    | —        | —    | ☁ Very bright, mild, and fine from 10a.                                          |
| 22    | 30.485     | 30.628 | 52.0             | 47.2   | 46.0 | 55.9 | 343                | 249    | 88                 | 77     | SSW 4                      | W 5    | 10            | 0      | 086    | —        | —    | ☁ in squalls, p.                                                                 |
| 23    | 30.301     | 30.421 | 48.9             | 42.4   | 42.0 | 50.4 | 287                | 219    | 83                 | 81     | SbyW 2                     | W 4    | 9             | 1      | —      | —        | —    | ☁ Bright and cool from noon with ☁.                                              |
| 24    | 30.412     | 30.280 | 47.2             | 48.9   | 40.2 | 53.3 | 260                | 300    | 81                 | 88     | WSW 2                      | WSW 3  | 6             | 4      | 010    | —        | —    |                                                                                  |
| 25    | 30.275     | 30.509 | 49.3             | 47.1   | 44.0 | 53.0 | 321                | 300    | 92                 | 93     | NW 1                       | NW 2   | 10            | 3      | 012    | —        | —    |                                                                                  |
| 26    | 30.777     | 30.680 | 54.8             | 54.1   | 40.9 | 54.8 | 293                | 331    | 97                 | 79     | WSW 1                      | SSW 4  | 3             | 6      | 174    | —        | —    | ☁ early a. Squally 9p.                                                           |
| 27    | 30.589     | 30.731 | 50.5             | 49.1   | 47.2 | 56.5 | 278                | 290    | 75                 | 80     | WSW 4                      | WSW 5  | 0             | 0      | 056    | —        | —    | ☁ 2 on S.E. horizon, 5p.-6p. ☁ in [squalls, p.                                   |
| 28    | 30.030     | 30.838 | 47.9             | 53.5   | 46.9 | 54.3 | 286                | 354    | 87                 | 87     | W 3                        | S 2    | 3             | 10     | 184    | —        | —    |                                                                                  |
| 29    | 30.415     | 30.558 | 56.0             | 50.3   | 50.1 | 58.8 | 316                | 326    | 92                 | 90     | SW 1                       | W 2    | 2             | 10     | 030    | —        | —    |                                                                                  |
| 30    | 30.502     | 30.655 | 54.4             | 52.2   | 49.0 | 62.2 | 376                | 318    | 89                 | 81     | SSW 2                      | WNW 6  | 6             | 6      | 129    | —        | —    | ☁ Very warm, a. ☁ a. and p. Bluster- [ing S.W. wind with ☁.                      |
| 31    | 30.101     | 30.319 | 50.1             | 48.3   | 47.2 | 53.4 | 284                | 268    | 84                 | 85     | W 4                        | W 3    | 3             | 5      | 010    | —        | —    |                                                                                  |
| Means | 30.030     | 30.026 | 50.0             | 47.9   | 45.4 | 56.9 | 322                | 307    | 85.2               | 85.6   | 2.5                        | 3.0    | 6.2           | 4.1    | 2.153  | —        | —    |                                                                                  |



## GLENALMOND.

Height above Mean Sea Level, 529 feet. Long. 3° 40' W. Lat. 56° 27' N.

NOVEMBER 1877.

| Day.  | Barometer. |         | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks. |        |                            |       |
|-------|------------|---------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------|--------|----------------------------|-------|
|       | 9 a.m.     | 9 p.m.  | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |          |        |                            |       |
| 1     | ins.       | ins.    | 48°              | 44°    | 42°  | 54°  | in.                | in.    | 73                 | 93     | NW                         | 3      | Calm          | 0      | 8      | 10       | ins.   | Day very bright and fine.  |       |
| 2     | 30° 207    | 30° 204 | 48°              | 44°    | 43°  | 50°  | 243                | 259    | 96                 | 88     | SW                         | 2      | SW            | 1      | 10     | 9        | ° 020  |                            |       |
| 3     | ° 809      | ° 847   | 44°              | 44°    | 36°  | 50°  | 216                | 249    | 73                 | 85     | W                          | 3      | SW            | 12     | 3      | 9        | —      |                            |       |
| 4     | ° 572      | ° 276   | 49°              | 46°    | 43°  | 50°  | 292                | 294    | 83                 | 95     | SW                         | 4      | SW            | 2      | 10     | 10       | ° 230  | Day beautifully fine.      |       |
| 5     | ° 421      | ° 338   | 45°              | 46°    | 40°  | 53°  | 268                | 267    | 88                 | 85     | W                          | 2      | SW            | 3      | 4      | 4        | ° 230  |                            |       |
| 6     | ° 341      | ° 209   | 43°              | 45°    | 41°  | 50°  | 253                | 298    | 91                 | 99     | W                          | 1      | Calm          | 0      | 5      | 10       | ° 280  |                            |       |
| 7     | ° 365      | ° 534   | 43°              | 41°    | 40°  | 51°  | 248                | 256    | 87                 | 99     | W                          | 2      | Calm          | 0      | 5      | 8        | ° 040  | Bright and sunny all day.  |       |
| 8     | ° 609      | ° 578   | 42°              | 37°    | 37°  | 48°  | 256                | 223    | 93                 | 100    | WSW                        | 1      | Calm          | 0      | 8      | 5        | ° 330  |                            | ☁ 9p. |
| 9     | 29° 316    | 29° 167 | 46°              | 38°    | 36°  | 50°  | 288                | 237    | 92                 | 100    | SW                         | 2      | Calm          | 0      | 8      | 5        | ° 460  |                            |       |
| 10    | 28° 913    | 28° 956 | 42°              | 40°    | 36°  | 45°  | 261                | 239    | 96                 | 97     | SW                         | 2      | S             | 1      | 10     | 0        | ° 110  | Squally 9p.                |       |
| 11    | ° 854      | ° 278   | 42°              | 45°    | 38°  | 50°  | 235                | 239    | 85                 | 80     | S                          | 3      | S             | 5      | 9      | 10       | ° 280  |                            |       |
| 12    | 28° 532    | 28° 722 | 37°              | 42°    | 35°  | 45°  | 179                | 245    | 81                 | 92     | S                          | 3      | SW            | 4      | 0      | 10       | ° 160  |                            |       |
| 13    | 29° 156    | 29° 566 | 41°              | 34°    | 33°  | 49°  | 244                | 188    | 92                 | 96     | E                          | 1      | SSE           | 1      | 8      | 3        | —      | Squally during past night. |       |
| 14    | ° 870      | ° 702   | 38°              | 46°    | 31°  | 46°  | 226                | 301    | 96                 | 97     | SW                         | 1      | S             | 1      | 9      | 10       | —      |                            |       |
| 15    | ° 960      | 29° 688 | 47°              | 50°    | 33°  | 51°  | 280                | 353    | 87                 | 98     | WSW                        | 3      | WSW           | 3      | 5      | 10       | 1° 000 |                            |       |
| 16    | 29° 953    | 30° 119 | 40°              | 39°    | 38°  | 50°  | 235                | 210    | 93                 | 86     | WSW                        | 2      | N             | 1      | 7      | 4        | ° 120  | * Noon—4p., then ●.        |       |
| 17    | 30° 194    | 29° 954 | 41°              | 44°    | 35°  | 46°  | 237                | 248    | 91                 | 86     | SW                         | 1      | WSW           | 2      | 7      | 10       | ° 080  |                            |       |
| 18    | 29° 786    | 29° 776 | 37°              | 37°    | 36°  | 44°  | 210                | 212    | 94                 | 94     | SW                         | 1      | S             | 1      | 8      | 7        | —      |                            |       |
| 19    | —          | —       | —                | —      | 35°  | 40°  | —                  | —      | —                  | —      | —                          | —      | —             | —      | —      | —        | ° 290  | * Noon—4p., then ●.        |       |
| 20    | —          | —       | —                | —      | 32°  | 42°  | —                  | —      | —                  | —      | —                          | —      | —             | —      | —      | —        | ° 750  |                            |       |
| 21    | —          | —       | —                | —      | 25°  | 37°  | —                  | —      | —                  | —      | —                          | —      | —             | —      | —      | —        | —      |                            |       |
| 22    | —          | —       | —                | —      | 32°  | 41°  | —                  | —      | —                  | —      | —                          | —      | —             | —      | —      | —        | —      | ☽ from NW. n.              |       |
| 23    | —          | —       | —                | —      | 21°  | 46°  | —                  | —      | —                  | —      | —                          | —      | —             | —      | —      | —        | —      |                            |       |
| 24    | 29° 523    | 29° 545 | 27°              | 33°    | 22°  | 36°  | 137                | 169    | 94                 | 90     | ?                          | 1      | E             | 1      | 4      | 7        | —      |                            |       |
| 25    | ° 723      | ° 831   | 35°              | 33°    | 30°  | 42°  | 149                | 156    | 72                 | 83     | W                          | 1      | Calm          | 0      | 0      | 8        | —      | ° 2 from NW. n.            |       |
| 26    | ° 719      | 29° 285 | 35°              | 36°    | 28°  | 40°  | 186                | 217    | 91                 | 99     | Calm                       | 0      | E             | 1      | 10     | 10       | ° 470  |                            |       |
| 27    | 29° 042    | 28° 999 | 35°              | 29°    | 28°  | 40°  | 182                | 156    | 87                 | 97     | SW                         | 1      | Calm          | 0      | 3      | 3        | ° 030  |                            |       |
| 28    | 28° 891    | ° 912   | 35°              | 36°    | 28°  | 38°  | 196                | 198    | 94                 | 91     | SW                         | 1      | S             | 3      | 9      | 0        | ° 500  | ° 2 from NW. n.            |       |
| 29    | ° 624      | ° 741   | 35°              | 30°    | 29°  | 37°  | 202                | 158    | 98                 | 93     | SW                         | 1      | SW            | 1      | 10     | 0        | —      |                            |       |
| 30    | 28° 883    | 28° 902 | 34°              | 37°    | 30°  | 39°  | 193                | 199    | 97                 | 90     | SE                         | 1      | SE            | 1      | 10     | 10       | ° 080  |                            |       |
| Means | —          | —       | —                | —      | 34°  | 45°  | —                  | —      | —                  | —      | —                          | —      | —             | —      | —      | —        | 5° 760 |                            |       |

## DURHAM.

Height above Mean Sea Level, 335 feet. Long. 1° 35' W. Lat. 54° 46' N.

NOVEMBER 1877.

| Day.  | 10 a.m. |         | 10 p.m. |         | Min. | Max. | 10 a.m. |         | 10 p.m. |         | 10 a.m. |         | 10 p.m. |         | 10 a.m. | 10 p.m.                      | Remarks. |
|-------|---------|---------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------------------------|----------|
|       | 10 a.m. | 10 p.m. | 10 a.m. | 10 p.m. |      |      | 10 a.m. | 10 p.m. | 10 a.m. | 10 p.m. | 10 a.m. | 10 p.m. | 10 a.m. | 10 p.m. |         |                              |          |
| 1     | 30° 237 | 30° 267 | 52°     | 45°     | 42°  | 55°  | 274     | 263     | 71      | 86      | WNW 2 4 | SW 0 8  | 2       | 10      | —       | —                            |          |
| 2     | 30° 000 | 29° 677 | 48°     | 46°     | 42°  | 50°  | 263     | 298     | 79      | 95      | S 4 3   | S 2 0   | 8       | 10      | 092     | ☽ in squalls a.              |          |
| 3     | 29° 903 | 29° 949 | 47°     | 44°     | 41°  | 51°  | 234     | 237     | 73      | 81      | W 2 0   | SSW 1 4 | 0       | 9       | —       | —                            |          |
| 4     | 28° 735 | 28° 403 | 47°     | 46°     | 41°  | 49°  | 251     | 277     | 78      | 87      | S 3 0   | S 4 2   | 9       | 3       | 039     | ☽ in squalls p.              |          |
| 5     | 28° 547 | 28° 523 | 50°     | 50°     | 45°  | 54°  | 289     | 305     | 80      | 84      | WSW 2 0 | S 3 0   | 7       | 10      | 034     | ☽ in squalls p. ☽ 8p.—9.30p. |          |
| 6     | 28° 447 | 28° 270 | 54°     | 51°     | 50°  | 58°  | 303     | 363     | 72      | 95      | SW 2 8  | S 2 7   | 8       | 10      | 137     | ☽ in squalls a.              |          |
| 7     | 28° 483 | 28° 621 | 48°     | 41°     | 40°  | 54°  | 257     | 235     | 75      | 91      | SW 0 3  | SW 0 9  | 7       | 0       | —       | Squally a.                   |          |
| 8     | 28° 694 | 28° 620 | 45°     | 45°     | 35°  | 51°  | 266     | 274     | 87      | 91      | S 1 9   | S 2 6   | 3       | 10      | 038     | ☽ Squally p.                 |          |
| 9     | 28° 412 | 28° 241 | 50°     | 44°     | 44°  | 55°  | 331     | 261     | 91      | 88      | S 1 4   | S 1 1   | 0       | 2       | 003     | —                            |          |
| 10    | 28° 060 | 28° 094 | 47°     | 43°     | 43°  | 51°  | 257     | 261     | 79      | 93      | S 4 0   | SSW 2 3 | 8       | 1       | 393     | ☽ in squalls p.              |          |
| 11    | 28° 964 | 28° 452 | 44°     | 46°     | 42°  | 49°  | 261     | 284     | 90      | 91      | SSE 2 7 | S 2 4   | 10      | 10      | 747     | ☽ in squalls a. and p.       |          |
| 12    | 28° 697 | 28° 948 | 42°     | 41°     | 39°  | 46°  | 218     | 229     | 82      | 88      | S 4 0   | S 4 2   | 1       | 10      | —       | ☽ in squalls a. and p.       |          |
| 13    | 28° 283 | 28° 639 | 41°     | 38°     | 36°  | 49°  | 242     | 213     | 92      | 90      | SSW 1 6 | S 1 4   | 7       | 0       | —       | ☽ in squalls a. and p.       |          |
| 14    | 28° 974 | 28° 897 | 39°     | 42°     | 33°  | 47°  | 224     | 254     | 92      | 92      | S 0 4   | S 2 6   | 0       | 10      | 190     | ☽ in squalls a. and p.       |          |
| 15    | 30° 122 | 29° 866 | 50°     | 52°     | 42°  | 56°  | 274     | 335     | 74      | 84      | SW 2 8  | SSW 6 1 | 7       | 5       | —       | ☽ in squalls a. and p.       |          |
| 16    | 28° 125 | 28° 287 | 48°     | 40°     | 39°  | 58°  | 243     | 207     | 72      | 84      | W 3 6   | SE 0 4  | 0       | 2       | —       | Squally a.                   |          |
| 17    | 30° 288 | 30° 102 | 43°     | 41°     | 36°  | 49°  | 238     | 231     | 83      | 90      | SSW 2 0 | S 1 1   | 1       | 7       | —       | —                            |          |
| 18    | 28° 898 | 28° 899 | 43°     | 39°     | 36°  | 50°  | 218     | 204     | 78      | 84      | SW 1 4  | SW 2 3  | 10      | 8       | 028     | ☽ 9p.                        |          |
| 19    | 28° 698 | 28° 395 | 44°     | 39°     | 36°  | 44°  | 264     | 193     | 89      | 81      | S 3 5   | W 2 0   | 10      | 0       | 171     | ☽ Squally a.                 |          |
| 20    | 28° 413 | 28° 673 | 39°     | 35°     | 34°  | 42°  | 187     | 158     | 76      | 75      | NW 4 2  | WNW 1 0 | 9       | 0       | —       | ☽ in squalls a. and p.       |          |
| 21    | 28° 609 | 28° 910 | 33°     | 49°     | 30°  | 51°  | 168     | 274     | 88      | 77      | SSW 1 1 | SW 4 2  | 10      | 8       | 373     | ☽ in squalls a. and p.       |          |
| 22    | 28° 713 | 28° 775 | 44°     | 41°     | 39°  | 50°  | 238     | 216     | 80      | 83      | SW 5 6  | W 4 3   | 1       | 5       | 158     | ☽ in squalls a. and p.       |          |
| 23    | 28° 259 | 28° 556 | 43°     | 34°     | 33°  | 45°  | 209     | 171     | 73      | 85      | W 4 8   | WNW 0 4 | 1       | 0       | —       | ☽ in squalls a. and p.       |          |
| 24    | 28° 493 | 28° 466 | 32°     | 37°     | 29°  | 40°  | 171     | 164     | 93      | 74      | SSW 0 4 | NE 1 1  | 0       | 9       | —       | ☽ in squalls p.              |          |
| 25    | 28° 701 | 28° 870 | 37°     | 34°     | 30°  | 41°  | 170     | 157     | 74      | 79      | NW 1 8  | W 1 7   | 4       | 3       | —       | ☽ in squalls p.              |          |
| 26    | 28° 786 | 28° 326 | 36°     | 40°     | 31°  | 40°  | 192     | 242     | 90      | 97      | SSW 1 2 | S 4 8   | 8       | 10      | 294     | ☽ in squalls p.              |          |
| 27    | 28° 153 | 28° 030 | 40°     | 36°     | 33°  | 46°  | 216     | 196     | 87      | 92      | SW 2 0  | SSW 1 0 | 1       | 9       | —       | ☽ in squalls p.              |          |
| 28    | 28° 021 | 28° 006 | 35°     | 36°     | 31°  | 41°  | 186     | 193     | 90      | 90      | S 2 5   | S 2 4   | 3       | 10      | 267     | ☽ in squalls p.              |          |
| 29    | 28° 732 | 28° 813 | 40°     | 37°     | 34°  | 45°  | 240     | 201     | 96      | 91      | SSW 1 8 | SE 0 5  | 10      | 7       | 042     | ☽ in squalls p.              |          |
| 30    | 28° 900 | 28° 841 | 36°     | 38°     | 32°  | 40°  | 206     | 213     | 95      | 93      | SE 1 0  | W 0 9   | 10      | 10      | 054     | ☽ in squalls p.              |          |
| Means | 29° 512 | 29° 447 | 43°     | 42°     | 37°  | 49°  | 236     | 237     | 82°     | 87°     | 2°      | 2°      | 5°      | 6°      | 5° 060  |                              |          |

## HAWES.

Height above Mean Sea Level, 800 feet. Long. 2° 11' W. Lat. 54° 18' N.

NOVEMBER 1877.

| Day.  | Barometer. |         | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks.                                                                        |       |
|-------|------------|---------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|---------------------------------------------------------------------------------|-------|
|       | 9 a.m.     | 9 p.m.  | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |                                                                                 |       |
| 1     | ins.       | ins.    | 47°              | 45°    | 44°  | 51°  | ins.               | ins.   | 78                 | 82     | W 2                        | WSW 2  | 3             | 10     | ins.   | Cold wind.                                                                      |       |
| 2     | 30° 309    | 30° 328 | 47°              | 45°    | 44°  | 51°  | 254                | 248    | 78                 | 82     | WSW 1                      | SW 4   | 10            | 10     | 390    | ☽ ga. and during day. Gusty at 9p.                                              |       |
| 3     | 29° 100    | 29° 740 | 45°              | 46°    | 42°  | 48°  | 248                | 287    | 82                 | 93     | WSW 2                      | SW 3   | 4             | 9      | —      | Cold air.                                                                       |       |
| 4     | 29° 955    | 30° 006 | 43°              | 43°    | 39°  | 47°  | 226                | 238    | 81                 | 85     | SW 3                       | SSW 4  | 10            | 7      | 280    | Chilly.                                                                         |       |
| 5     | 28° 812    | 29° 478 | 44°              | 45°    | 41°  | 47°  | 238                | 271    | 81                 | 88     | WSW 3                      | SSW 4  | 10            | 10     | 870    | Rough n.                                                                        |       |
| 6     | 28° 599    | 28° 590 | 46°              | 48°    | 43°  | 49°  | 267                | 312    | 86                 | 93     | WSW 4                      | SW 1   | 10            | 10     | 530    | Rough n. Gusty ga.                                                              |       |
| 7     | 28° 490    | 28° 338 | 52°              | 50°    | 47°  | 53°  | 333                | 336    | 85                 | 94     | WSW 3                      | Calm 0 | 10            | 2      | 080    | Cold day. ☽ 9p.                                                                 |       |
| 8     | 28° 506    | 28° 651 | 46°              | 43°    | 41°  | 52°  | 278                | 247    | 90                 | 87     | WSW 2                      | S 2    | 3             | 10     | 430    | Scotch ☽ 9p.                                                                    |       |
| 9     | 28° 734    | 28° 675 | 43°              | 46°    | 43°  | 48°  | 254                | 266    | 91                 | 85     | WSW 1                      | SW 4   | 2             | 1      | 070    | ☽ in evening. ☽ 9p.                                                             |       |
| 10    | 28° 456    | 28° 278 | 47°              | 45°    | 43°  | 52°  | 279                | 268    | 87                 | 90     | SW 3                       | SW 5   | 10            | 10     | 600    | ☽ and ☽ showers during day & evening.                                           |       |
| 11    | 28° 115    | 28° 127 | 44°              | 44°    | 42°  | 47°  | 242                | 257    | 82                 | 87     | S 4                        | SW 4   | 10            | 10     | 1000   | Rough day.                                                                      |       |
| 12    | 28° 050    | 28° 499 | 44°              | 45°    | 41°  | 49°  | 247                | 281    | 83                 | 93     | SW 3                       | SSW 3  | 10            | 10     | 050    | Cold day. Gusty p. ☽ <sup>0</sup> on hills, 9p.                                 |       |
| 13    | 28° 725    | 28° 954 | 39°              | 42°    | 36°  | 46°  | 196                | 218    | 81                 | 86     | Calm 0                     | Calm 0 | 10            | 9      | 030    | ☽ <sup>2</sup> 9p. ☽ ga. ☽ p.                                                   |       |
| 14    | 29° 302    | 29° 647 | 40°              | 41°    | 38°  | 47°  | 237                | 227    | 94                 | 86     | Calm 0                     | SSW 3  | 2             | 10     | 340    | ☽ <sup>2</sup> ga.                                                              |       |
| 15    | 30° 061    | 30° 799 | 39°              | 44°    | 35°  | 46°  | 225                | 253    | 94                 | 84     | W 2                        | SW 3   | 3             | 10     | 10     | 290                                                                             | ☽ 9p. |
| 16    | 28° 161    | 29° 996 | 48°              | 51°    | 44°  | 53°  | 286                | 348    | 86                 | 93     | W 3                        | WSW 3  | 1             | 2      | 020    | ☽ in past night. Cold air during day.                                           |       |
| 17    | 28° 171    | 30° 339 | 44°              | 45°    | 42°  | 47°  | 238                | 233    | 92                 | 88     | W 1                        | SW 4   | 9             | 1      | 080    |                                                                                 |       |
| 18    | 30° 356    | 30° 146 | 41°              | 42°    | 40°  | 47°  | 238                | 233    | 92                 | 82     | W 3                        | WSW 2  | 10            | 5      | 140    |                                                                                 |       |
| 19    | 29° 962    | 29° 966 | 38°              | 40°    | 38°  | 44°  | 218                | 204    | 90                 | 82     | W 3                        | W 1    | 10            | 9      | 460    |                                                                                 |       |
| 20    | 29° 765    | 29° 603 | 40°              | 38°    | 36°  | 43°  | 207                | 208    | 84                 | 91     | SSW 2                      | W 1    | 10            | 9      | 400    | ☽ ☽ n. and a. ☽ <sup>0</sup> on hills.                                          |       |
| 21    | 29° 495    | 29° 739 | 37°              | 30°    | 34°  | 39°  | 181                | 150    | 82                 | 73     | NW 2                       | NW 2   | 10            | 0      | 1610   | ☽ ☽ n. and a., also during day.                                                 |       |
| 22    | 29° 678    | 29° 905 | 31°              | 40°    | 29°  | 50°  | 149                | 295    | 85                 | 85     | Calm 0                     | WSW 5  | 3             | 10     | 170    |                                                                                 |       |
| 23    | 28° 806    | 28° 908 | 43°              | 38°    | 37°  | 49°  | 238                | 208    | 85                 | 91     | WSW 6                      | W 3    | 10            | 10     | 020    |                                                                                 |       |
| 24    | 29° 358    | 29° 613 | 41°              | 37°    | 36°  | 44°  | 199                | 199    | 77                 | 90     | WNW 5                      | W 2    | 3             | 5      | 030    |                                                                                 |       |
| 25    | 29° 536    | 29° 507 | 30°              | 34°    | 28°  | 43°  | 154                | 165    | 92                 | 83     | Calm 0                     | E 2    | 2             | 0      | 7      | ☽ <sup>2</sup> 9p. in valley ga. ☽ 9p.                                          |       |
| 26    | 29° 763    | 29° 934 | 31°              | 33°    | 29°  | 37°  | 142                | 149    | 81                 | 79     | Calm 0                     | WNW 1  | 10            | 8      | 040    | ☽ ga. ☽ 9p. Cold day.                                                           |       |
| 27    | 28° 837    | 29° 393 | 35°              | 40°    | 31°  | 37°  | 219                | 204    | 80                 | 93     | Calm 0                     | ESE 2  | 10            | 10     | 440    | ☽ <sup>0</sup> ☽ <sup>0</sup> n. ☽ <sup>2</sup> on hills, ga. ☽ <sup>2</sup> p. |       |
| 28    | 29° 190    | 29° 092 | 40°              | 36°    | 36°  | 47°  | 219                | 204    | 80                 | 93     | WSW 2                      | SW 2   | 10            | 10     | 630    | ☽ ☽ n. a., and during day. ☽ <sup>2</sup> 9p.                                   |       |
| 29    | 29° 065    | 29° 063 | 36°              | 37°    | 33°  | 38°  | 185                | 205    | 94                 | 97     | W 1                        | WSW 2  | 10            | 10     | 360    |                                                                                 |       |
| 30    | 28° 675    | 28° 858 | 37°              | 36°    | 35°  | 42°  | 212                | 205    | 94                 | 97     | W 1                        | WSW 2  | 10            | 10     | 400    | Scotch ☽ ga. — 9p.                                                              |       |
| 31    | 28° 919    | 28° 885 | 36°              | 39°    | 35°  | 40°  | 196                | 219    | 93                 | 93     | SSE 1                      | WSW 2  | 10            | 10     | 560    |                                                                                 |       |
| Means | 29° 565    | 29° 507 | 41°              | 42°    | 38°  | 46°  | 226                | 238    | 86°                | 87°    | 2°                         | 2°     | 7°            | 7°     | 11°    | 560                                                                             |       |



## KELSTERN.

Height above Mean Sea Level, 388 feet. Long. 0° 7' W. Lat. 53° 24' N.

NOVEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks.                 |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|--------------------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |                          |
| 1     | ins.       | ins.   | 47.7             | 46.1   | 40.0 | 54.4 | in.                | in.    | 83                 | 98     | W                          | 1      | W             | 1      | 0      | ∞ ga.                    |
| 2     | 30.185     | 29.853 | 43.4             | 45.2   | 37.7 | 48.3 | 23.8               | 28.9   | 84                 | 97     | SW                         | 2      | SW            | 3      | 4      | Very fine all day.       |
| 3     | 29.958     | 30.084 | 45.0             | 37.4   | 36.3 | 50.8 | 25.6               | 21.2   | 86                 | 94     | W                          | 2      | SW            | 1      | 0      | Very fine during day. p. |
| 4     | 30.16      | 29.599 | 39.6             | 46.1   | 33.9 | 47.8 | 21.5               | 29.5   | 89                 | 95     | S                          | 2      | S             | 4      | 10     | Very fine during day. p. |
| 5     | 30.655     | 30.698 | 46.7             | 48.0   | 42.6 | 54.4 | 27.8               | 29.5   | 88                 | 89     | WSW                        | 3      | SW            | 5      | 0      | Very fine during day. p. |
| 6     | 30.571     | 30.442 | 52.1             | 54.5   | 46.0 | 55.6 | 38.1               | 38.1   | 98                 | 90     | SW                         | 3      | SW            | 6      | 10     | Very fine during day. p. |
| 7     | 30.580     | 30.607 | 49.5             | 43.2   | 43.2 | 56.0 | 33.3               | 27.5   | 95                 | 98     | SSW                        | 1      | S             | 1      | 10     | Very fine during day. p. |
| 8     | 30.788     | 30.768 | 42.9             | 44.1   | 38.0 | 51.6 | 26.1               | 26.6   | 95                 | 92     | SSW                        | 1      | SSW           | 3      | 0      | Very fine during day. p. |
| 9     | 30.541     | 30.356 | 48.9             | 47.8   | 44.1 | 53.8 | 34.2               | 30.5   | 99                 | 92     | S                          | 5      | SW            | 1      | 10     | Very fine during day. p. |
| 10    | 29.272     | 29.275 | 45.7             | 43.0   | 43.0 | 52.7 | 26.7               | 25.1   | 88                 | 90     | SSW                        | 5      | SW            | 5      | 1      | Very fine during day. p. |
| 11    | 29.205     | 28.622 | 44.0             | 49.0   | 39.6 | 49.2 | 26.7               | 32.2   | 93                 | 93     | S                          | 4      | SSE           | 10     | 10     | Very fine during day. p. |
| 12    | 28.831     | 29.073 | 42.7             | 39.8   | 39.8 | 50.0 | 23.0               | 22.5   | 87                 | 92     | SW                         | 3      | S             | 2      | 1      | Very fine during day. p. |
| 13    | 29.306     | 29.671 | 37.9             | 37.8   | 35.1 | 49.7 | 22.4               | 22.5   | 98                 | 99     | S                          | 1      | SW            | 1      | 1      | Very fine during day. p. |
| 14    | 30.037     | 30.125 | 33.8             | 41.9   | 31.0 | 47.2 | 18.6               | 23.4   | 95                 | 89     | SW                         | 1      | SW            | 3      | 0      | Very fine during day. p. |
| 15    | 30.192     | 30.119 | 49.1             | 53.2   | 41.1 | 53.2 | 34.4               | 40.0   | 98                 | 99     | SW                         | 2      | SW            | 3      | 10     | Very fine during day. p. |
| 16    | 30.187     | 30.409 | 49.9             | 36.6   | 36.5 | 55.6 | 30.8               | 26.6   | 86                 | 96     | WSW                        | 1      | WSW           | 1      | 9      | Very fine during day. p. |
| 17    | 30.396     | 30.351 | 35.9             | 34.0   | 46.9 | 46.9 | 22.1               | 19.9   | 96                 | 95     | SSW                        | 1      | SSW           | 1      | 10     | Very fine during day. p. |
| 18    | 30.041     | 30.033 | 38.9             | 36.1   | 34.4 | 47.1 | 22.5               | 20.3   | 95                 | 95     | SSW                        | 2      | SW            | 1      | 9      | Very fine during day. p. |
| 19    | 29.876     | 29.483 | 35.0             | 38.9   | 31.1 | 44.2 | 18.6               | 21.8   | 91                 | 93     | S                          | 1      | WNW           | 2      | 8      | Very fine during day. p. |
| 20    | 29.431     | 29.697 | 36.2             | 35.1   | 33.5 | 41.7 | 20.1               | 16.8   | 94                 | 81     | W                          | 1      | NW            | 2      | 6      | Very fine during day. p. |
| 21    | 29.732     | 29.163 | 33.3             | 47.0   | 30.9 | 47.0 | 18.0               | 31.6   | 95                 | 98     | SW                         | 1      | SW            | 3      | 2      | Very fine during day. p. |
| 22    | 28.995     | 28.925 | 44.1             | 42.1   | 41.5 | 51.6 | 24.0               | 24.4   | 82                 | 91     | SW                         | 4      | WNW           | 5      | 0      | Very fine during day. p. |
| 23    | 29.341     | 29.625 | 43.4             | 36.3   | 36.3 | 45.8 | 23.0               | 19.6   | 81                 | 92     | W                          | 6      | W             | 2      | 2      | Very fine during day. p. |
| 24    | 29.532     | 29.322 | 34.1             | 39.0   | 29.2 | 40.9 | 19.0               | 18.2   | 97                 | 78     | SSE                        | 1      | NE            | 3      | 2      | Very fine during day. p. |
| 25    | 29.707     | 29.928 | 34.4             | 31.1   | 31.1 | 41.4 | 16.8               | 17.0   | 83                 | 98     | NW                         | 1      | NNW           | 1      | 1      | Very fine during day. p. |
| 26    | 29.909     | 29.526 | 33.1             | 41.3   | 29.7 | 41.6 | 17.4               | 25.3   | 92                 | 98     | SSW                        | 1      | SSE           | 3      | 9      | Very fine during day. p. |
| 27    | 29.244     | 29.102 | 40.8             | 38.4   | 38.4 | 45.1 | 23.9               | 23.5   | 95                 | 97     | SW                         | 1      | SW            | 1      | 3      | Very fine during day. p. |
| 28    | 29.156     | 29.169 | 35.4             | 34.1   | 33.0 | 41.7 | 18.4               | 18.8   | 90                 | 96     | SW                         | 3      | SW            | 2      | 0      | Very fine during day. p. |
| 29    | 28.744     | 28.949 | 44.0             | 34.1   | 33.9 | 44.9 | 26.5               | 19.0   | 92                 | 97     | SE                         | 7      | SSW           | 1      | 10     | Very fine during day. p. |
| 30    | 28.980     | 28.995 | 37.3             | 39.5   | 33.7 | 41.3 | 21.8               | 20.8   | 98                 | 86     | SSE                        | 1      | SW            | 4      | 10     | Very fine during day. p. |
| Means | 29.620     | 29.578 | 41.6             | 41.2   | 36.6 | 48.4 | 24.4               | 24.6   | 91.4               | 93.3   | 2.3                        | 2.7    | 5.0           | 4.4    | 2.729  |                          |

## BUXTON.

Height above Mean Sea Level, 987 feet. Long. 1° 54' W. Lat. 53° 14' N.

NOVEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks.                 |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|--------------------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |                          |
| 1     | 30.348     | 30.380 | 46.5             | 44.1   | 43.6 | —    | 27.8               | 23.0   | 89                 | 79     | NW                         | 3      | NW            | 1      | 8      | ∞ ga.                    |
| 2     | 30.147     | 29.814 | 43.9             | 43.9   | 40.9 | —    | 23.4               | 26.4   | 82                 | 92     | SW                         | 1      | NW            | 2      | 4      | Very fine during day. p. |
| 3     | 30.038     | 30.052 | 42.9             | 39.8   | 36.6 | —    | 23.1               | 20.7   | 84                 | 85     | NW                         | 1      | NW            | 1      | 8      | Very fine during day. p. |
| 4     | 29.819     | 29.610 | 45.9             | 45.9   | 37.4 | —    | 24.2               | 28.4   | 79                 | 93     | SW                         | 3      | NW            | 4      | 8      | Very fine during day. p. |
| 5     | 30.678     | 30.606 | 46.5             | 47.9   | 43.4 | —    | 27.0               | 29.6   | 87                 | 90     | W                          | 1      | W             | 5      | 7      | Very fine during day. p. |
| 6     | 30.583     | 30.417 | 51.9             | 52.9   | 47.9 | —    | 30.0               | 37.3   | 93                 | 93     | W                          | 3      | W             | 4      | 10     | Very fine during day. p. |
| 7     | 30.582     | 30.690 | 46.4             | 42.5   | 40.5 | —    | 29.2               | 24.1   | 93                 | 89     | WSW                        | 2      | W             | 1      | 10     | Very fine during day. p. |
| 8     | 30.787     | 30.726 | 43.9             | 44.9   | 37.7 | —    | 26.0               | 27.4   | 91                 | 92     | W                          | 1      | W             | 3      | 4      | Very fine during day. p. |
| 9     | 30.485     | 30.334 | 48.9             | 44.9   | 43.7 | —    | 31.3               | 27.0   | 91                 | 91     | SW                         | 2      | W             | 3      | 8      | Very fine during day. p. |
| 10    | 30.207     | 29.256 | 44.1             | 42.7   | 41.2 | —    | 25.8               | 25.2   | 89                 | 92     | SW                         | 3      | W             | 6      | 10     | Very fine during day. p. |
| 11    | 29.094     | 28.581 | 44.8             | 44.4   | 42.5 | —    | 25.4               | 25.8   | 85                 | 88     | SW                         | 5      | SW            | 5      | 10     | Very fine during day. p. |
| 12    | 28.707     | 29.042 | 39.3             | 38.8   | 36.2 | —    | 20.3               | 21.6   | 85                 | 92     | SW                         | 4      | NW            | 2      | 4      | Very fine during day. p. |
| 13    | 29.334     | 29.714 | 38.4             | 36.9   | 33.4 | —    | 21.2               | 20.1   | 92                 | 92     | S                          | 1      | W             | 1      | 8      | Very fine during day. p. |
| 14    | 30.054     | 30.065 | 39.9             | 44.9   | 30.2 | —    | 22.5               | 25.3   | 92                 | 85     | NW                         | 1      | W             | 3      | 2      | Very fine during day. p. |
| 15    | 29.224     | 29.055 | 49.9             | 53.9   | 44.8 | —    | 33.3               | 38.6   | 93                 | 93     | W                          | 2      | SW            | 5      | 9      | Very fine during day. p. |
| 16    | 29.335     | 29.424 | 45.5             | 39.9   | 37.0 | —    | 25.7               | 21.2   | 85                 | 87     | NW                         | 3      | W             | 1      | 10     | Very fine during day. p. |
| 17    | 30.388     | 30.280 | 39.7             | 40.0   | 35.0 | —    | 22.4               | 23.6   | 92                 | 96     | W                          | 1      | SW            | 1      | 6      | Very fine during day. p. |
| 18    | 29.987     | 30.056 | 42.9             | 38.1   | 35.8 | —    | 24.7               | 19.3   | 90                 | 84     | SW                         | 3      | SW            | 3      | 7      | Very fine during day. p. |
| 19    | 29.814     | 29.566 | 39.0             | 37.1   | 33.5 | —    | 21.8               | 19.9   | 92                 | 90     | SW                         | 3      | NW            | 2      | 10     | Very fine during day. p. |
| 20    | 29.535     | 29.740 | 35.9             | 37.9   | 32.9 | —    | 19.3               | 21.0   | 92                 | 92     | N                          | 3      | NW            | 2      | 10     | Very fine during day. p. |
| 21    | 29.710     | 29.128 | 36.7             | 48.9   | 34.4 | —    | 18.5               | 32.1   | 85                 | 93     | W                          | 2      | W             | 5      | 6      | Very fine during day. p. |
| 22    | 28.934     | 28.006 | 42.8             | 40.9   | 40.5 | —    | 21.7               | 23.1   | 79                 | 91     | W                          | 4      | W             | 6      | 8      | Very fine during day. p. |
| 23    | 29.486     | 29.666 | 39.9             | 35.9   | 34.9 | —    | 21.4               | 19.3   | 87                 | 92     | NW                         | 4      | NW            | 2      | 10     | Very fine during day. p. |
| 24    | 29.503     | 29.384 | 39.9             | 34.9   | 27.7 | —    | 14.2               | 17.0   | 85                 | 83     | NW                         | 1      | E             | 2      | 10     | Very fine during day. p. |
| 25    | 29.797     | 29.973 | 36.3             | 35.9   | 29.6 | —    | 15.7               | 15.6   | 74                 | 74     | N                          | 1      | NW            | 1      | 2      | Very fine during day. p. |
| 26    | 29.879     | 29.398 | 35.8             | 40.9   | 33.2 | —    | 19.2               | 23.4   | 92                 | 92     | W                          | 1      | W             | 4      | 5      | Very fine during day. p. |
| 27    | 29.245     | 29.084 | 39.8             | 38.9   | 36.8 | —    | 20.5               | 22.0   | 84                 | 94     | NW                         | 1      | W             | 1      | 3      | Very fine during day. p. |
| 28    | 29.148     | 29.122 | 39.7             | 35.9   | 33.0 | —    | 22.4               | 19.3   | 92                 | 92     | W                          | 2      | SW            | 2      | 2      | Very fine during day. p. |
| 29    | 28.754     | 28.913 | 37.9             | 34.9   | 32.6 | —    | 21.0               | 18.5   | 92                 | 91     | W                          | 1      | W             | 2      | 10     | Very fine during day. p. |
| 30    | 29.027     | 29.014 | 35.2             | 37.9   | 34.0 | —    | 18.7               | 21.0   | 91                 | 92     | S                          | 1      | SW            | 3      | 10     | Very fine during day. p. |
| Means | 29.618     | 29.571 | 41.7             | 41.5   | 37.0 | —    | 23.5               | 23.9   | 87.9               | 89.6   | 2.1                        | 2.8    | 7.3           | 7.4    | 8.235  |                          |

\* Maximum Thermometer out of order.

## HILLINGTON, NORFOLK.

Height above Mean Sea Level, 88 feet. Long. 0° 33' E. Lat. 52° 48' N.

NOVEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks.               |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|------------------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |                        |
|       | ins.       | ins.   |                  |        |      |      | in.                | in.    | %                  | %      |                            |        |               |        | ins.   |                        |
| 1     | 30.330     | 30.383 | 46.8             | 37.9   | 36.8 | 55.0 | .307               | .224   | 96                 | 98     | SW                         | 2      | W             | 1      | 0      | Fine and bright.       |
| 2     | 30.251     | 29.907 | 45.7             | 46.3   | 36.5 | 51.8 | .274               | .302   | 90                 | 97     | SW                         | 1      | SW            | 2      | 8      | 10                     |
| 3     | 29.983     | 30.107 | 45.8             | 36.7   | 36.4 | 50.9 | .278               | .214   | 91                 | 99     | WNW                        | 2      | WSW           | 1      | 0      | 2                      |
| 4     | .966       | 29.605 | 40.0             | 49.3   | 32.1 | 51.1 | .222               | .311   | 90                 | 89     | S                          | 0.5    | SSW           | 4      | 5      | 10                     |
| 5     | .698       | .773   | 49.0             | 50.0   | 44.1 | 55.7 | .322               | .324   | 93                 | 90     | SW                         | 3      | SW            | 5      | 2      | 6                      |
| 6     | .634       | .543   | 53.0             | 56.3   | 47.8 | 57.7 | .397               | .424   | 99                 | 93     | SW                         | 4      | SW            | 5      | 10     | 10                     |
| 7     | .603       | .712   | 51.1             | 45.9   | 45.2 | 57.2 | .370               | .309   | 98                 | 100    | SW                         | 0.5    | SW            | 1      | 10     | 3                      |
| 8     | .810       | .805   | 44.2             | 41.9   | 40.0 | 54.5 | .289               | .250   | 100                | 95     | SW                         | 0.5    | SW            | 2      | 2      | 10                     |
|       |            |        |                  |        |      |      |                    |        |                    |        |                            |        |               |        |        | [Very fine and bright. |
| 9     | .560       | .400   | 50.9             | 49.7   | 41.6 | 55.3 | .327               | .346   | 88                 | 97     | SSW                        | 4      | SW            | 4      | 10     | 10                     |
| 10    | .340       | .311   | 48.7             | 46.9   | 45.2 | 53.8 | .297               | .293   | 87                 | 92     | SW                         | 6      | SW            | 5      | 0      | 0                      |
| 11    | 29.280     | 28.759 | 47.7             | 50.7   | 43.1 | 51.8 | .287               | .344   | 87                 | 93     | S                          | 6      | S             | 9      | 10     | 10                     |
| 12    | 28.863     | 29.062 | 44.9             | 40.4   | 40.2 | 52.1 | .255               | .238   | 86                 | 95     | SW                         | 4      | SSE           | 2      | 6      | 5                      |
| 13    | 29.319     | 29.651 | 38.7             | 33.7   | 33.0 | 48.7 | .235               | .103   | 100                | 100    | SSE                        | 0.5    | SW            | 0.5    | 9      | 0                      |
| 14    | 30.039     | 30.150 | 35.1             | 41.2   | 30.1 | 48.3 | .198               | .229   | 97                 | 89     | SW                         | 0.5    | S             | 2      | 0      | 6                      |
| 15    | .239       | .106   | 49.4             | 54.9   | 40.6 | 54.9 | .345               | .407   | 98                 | 95     | SW                         | 2      | SW            | 3      | 10     | 10                     |
| 16    | .181       | .377   | 52.8             | 35.5   | 34.2 | 55.4 | .321               | .193   | 80                 | 94     | NW                         | 3      | SSW           | 0.5    | 10     | 7                      |
| 17    | .403       | .255   | 38.0             | 34.5   | 31.2 | 46.0 | .225               | .196   | 98                 | 98     | SW                         | 1      | SW            | 0.5    | 10     | 1                      |
| 18    | 30.089     | 30.043 | 39.9             | 34.2   | 32.2 | 47.4 | .244               | .196   | 99                 | 99     | WSW                        | 2      | SW            | 0.5    | 10     | 2                      |
| 19    | 29.920     | 29.485 | 34.6             | 43.4   | 29.1 | 46.4 | .186               | .249   | 93                 | 92     | SW                         | 1      | WNW           | 3      | 9      | 4                      |
| 20    | .464       | .687   | 36.2             | 38.8   | 33.1 | 43.1 | .201               | .107   | 94                 | 84     | NW                         | 3      | NW            | 4      | 7      | 0                      |
| 21    | .733       | 29.243 | 33.5             | 51.0   | 31.1 | 51.0 | .179               | .366   | 94                 | 98     | SW                         | 0.5    | SW            | 5      | 3      | 10                     |
| 22    | .091       | 28.931 | 44.9             | 42.3   | 41.2 | 51.9 | .205               | .238   | 90                 | 89     | SW                         | 5      | WSW           | 7      | 0      | 3                      |
| 23    | .331       | 29.602 | 43.0             | 36.8   | 36.8 | 45.6 | .244               | .199   | 85                 | 91     | NW                         | 6      | NW            | 2      | 6      | 0                      |
| 24    | .530       | .201   | 30.0             | 40.8   | 25.3 | 41.4 | .150               | .218   | 90                 | 86     | NE                         | 1      | NW            | 5      | 8      | 10                     |
| 25    | .663       | .914   | 38.9             | 34.7   | 33.3 | 42.3 | .199               | .187   | 85                 | 93     | NW                         | 4      | NW            | 1      | 7      | 0                      |
| 26    | .908       | .555   | 32.5             | 42.8   | 27.3 | 44.1 | .172               | .264   | 95                 | 96     | SSW                        | 0.5    | S             | 2      | 9      | 10                     |
| 27    | .248       | .072   | 46.2             | 39.9   | 39.7 | 48.3 | .311               | .246   | 100                | 100    | SW                         | 2      | SW            | 0.5    | 7      | 10                     |
| 28    | 29.198     | 29.105 | 36.2             | 37.2   | 34.2 | 43.7 | .204               | .206   | 95                 | 93     | SW                         | 2      | SW            | 2      | 1      | 0                      |
| 29    | 28.812     | 28.969 | 46.3             | 35.6   | 35.2 | 46.6 | .289               | .196   | 93                 | 95     | SE                         | 5      | S             | 1      | 10     | 0                      |
| 30    | 28.987     | 29.104 | 40.3             | 39.9   | 34.6 | 44.2 | .245               | .216   | 99                 | 88     | SW                         | 1      | SW            | 4      | 10     | 0                      |
| Means | 20.640     | 20.601 | 42.8             | 42.3   | 36.4 | 49.9 | .261               | .259   | 93.0               | 93.9   | 2.5                        | 2.8    | 6.3           | 5.0    | 3.393  |                        |



## OSCOTT.

Height above Mean Sea Level, 460 feet. Long 1° 51' W. Lat. 52° 33' N.

NOVEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks. |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |          |
| 1     | ins.       | ins.   | 47°              | 45°    | 42°  | 53°  | in.                | in.    | %                  | %      | W                          | 3-4    | WNW           | 1      | 0      | ins. ga. |
| 2     | 30°370     | 30°376 | 47°              | 45°    | 42°  | 53°  | 253                | 261    | 80                 | 87     | S                          | 2      | S             | 3      | 9      | 0°90     |
| 3     | 30°032     | 30°074 | 44°              | 40°    | 39°  | 50°  | 240                | 212    | 83                 | 85     | W                          | 2      | S             | 1      | 0      | —        |
| 4     | 29°871     | 29°599 | 44°              | 46°    | 38°  | 49°  | 246                | 304    | 85                 | 95     | S                          | 3      | S             | 4      | 10     | —        |
| 5     | 708        | 720    | 47°              | 48°    | 42°  | 56°  | 296                | 323    | 90                 | 94     | SW                         | 2      | S             | 4      | 10     | —        |
| 6     | 585        | 544    | 47°              | 48°    | 42°  | 56°  | 406                | 412    | 97                 | 97     | SSW                        | 3      | S             | 7      | 10     | 100      |
| 7     | 573        | 676    | 49°              | 44°    | 44°  | 55°  | 340                | 274    | 95                 | 95     | SW                         | 2      | S             | 1      | 10     | 0°50     |
| 8     | 791        | 723    | 42°              | 47°    | 39°  | 54°  | 270                | 304    | 99                 | 94     | SSW                        | 1      | SSW           | 4-5    | 5      | 150      |
| 9     | 498        | 342    | 51°              | 47°    | 46°  | 57°  | 375                | 301    | 100                | 94     | S                          | 2      | S             | 3-4    | 10     | 0°40     |
| 10    | 223        | 29°285 | 47°              | 43°    | 42°  | 52°  | 269                | 273    | 82                 | 97     | S                          | 7      | S             | 4      | 2      | 210      |
| 11    | 29°130     | 28°609 | 46°              | 44°    | 42°  | 50°  | 278                | 286    | 88                 | 99     | S                          | 7      | SW            | 2      | 10     | 620      |
| 12    | 28°830     | 29°003 | 40°              | 40°    | 37°  | 47°  | 230                | 226    | 92                 | 91     | S                          | 3      | SE            | 1-2    | 7      | 1        |
| 13    | 29°312     | 29°671 | 37°              | 39°    | 35°  | 50°  | 222                | 226    | 100                | 93     | Calm                       | 0      | SW            | 2      | 10     | 1        |
| 14    | 30°047     | 30°078 | 38°              | 45°    | 34°  | 49°  | 226                | 262    | 99                 | 88     | S                          | 1      | S             | 4      | 10     | 9        |
| 15    | 193        | 113    | 51°              | 54°    | 45°  | 55°  | 372                | 409    | 96                 | 95     | SSW                        | 3      | SSW           | 5      | 10     | 0°10     |
| 16    | 233        | 414    | 49°              | 39°    | 39°  | 55°  | 268                | 221    | 76                 | 91     | W                          | 3      | WSW           | 2      | 9      | —        |
| 17    | 408        | 239    | 38°              | 39°    | 36°  | 50°  | 226                | 229    | 98                 | 94     | Calm                       | 0      | SW            | 1      | 9      | 10       |
| 18    | 30°041     | 30°060 | 42°              | 36°    | 35°  | 51°  | 261                | 200    | 96                 | 94     | SSW                        | 3      | WSW           | 1      | 9      | 0        |
| 19    | 29°846     | 29°576 | 39°              | 38°    | 33°  | 45°  | 222                | 209    | 91                 | 91     | S                          | 3-4    | WSW           | 3      | 10     | 1        |
| 20    | 510        | 772    | 38°              | 38°    | 34°  | 44°  | 216                | 209    | 93                 | 91     | W                          | 4      | NW            | 6      | 10     | 5        |
| 21    | 700        | 191    | 38°              | 50°    | 34°  | 50°  | 208                | 358    | 91                 | 98     | SSW                        | 3-4    | SW            | 6      | 10     | 5        |
| 22    | 070        | 066    | 45°              | 43°    | 43°  | 53°  | 249                | 256    | 81                 | 92     | SW                         | 7      | SW            | 6-7    | 6      | 10       |
| 23    | 495        | 680    | 43°              | 35°    | 34°  | 46°  | 202                | 184    | 73                 | 90     | W                          | 6-7    | SW            | 2      | 1      | 0        |
| 24    | 470        | 277    | 32°              | 37°    | 31°  | 38°  | 182                | 195    | 100                | 86     | NE                         | 3      | NE-NNE        | 4-5    | 9      | 10       |
| 25    | 774        | 968    | 32°              | 33°    | 31°  | 44°  | 155                | 180    | 85                 | 92     | WNW                        | 2      | WNW           | 1      | 0      | 2        |
| 26    | 891        | 409    | 36°              | 43°    | 32°  | 43°  | 206                | 275    | 95                 | 99     | S                          | 2      | SE            | 4-5    | 9      | 10       |
| 27    | 275        | 143    | 40°              | 40°    | 40°  | 47°  | 228                | 246    | 91                 | 99     | SW                         | 2      | W             | 1      | 9      | 10       |
| 28    | 29°191     | 29°117 | 35°              | 37°    | 33°  | 45°  | 191                | 202    | 91                 | 92     | SSW                        | 2      | SSW           | 2      | 1      | 1        |
| 29    | 28°720     | 28°914 | 40°              | 36°    | 35°  | 46°  | 239                | 203    | 97                 | 95     | WSW                        | 3      | SSW           | 3      | 10     | 0        |
| 30    | 29°000     | 29°032 | 37°              | 39°    | 34°  | 44°  | 216                | 219    | 98                 | 92     | SSW                        | 2      | SSW           | 4      | 9      | 0        |
| Means | 29°632     | 29°580 | 42°              | 42°    | 38°  | 49°  | 252                | 259    | 91                 | 93     | 2°                         | 3°     | 7°            | 4°     | 2°580  |          |

## CHURCHSTOKE.

Height above Mean Sea Level, 548 feet. Long. 3° 5' W. Lat. 52° 31' N.

NOVEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks. |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |          |
| 1     | 30°423     | 30°386 | 48°              | 47°    | 43°  | 51°  | 284                | 273    | 85                 | 85     | W                          | 1      | Calm          | 0      | 1      | 10       |
| 2     | 185        | 29°796 | 46°              | 47°    | 41°  | 50°  | 268                | 316    | 86                 | 96     | S                          | 0°5    | SSW           | 3      | 9      | 10       |
| 3     | 30°058     | 30°083 | 44°              | 41°    | 39°  | 50°  | 261                | 241    | 89                 | 94     | W                          | 0°5    | SSW           | 1      | 0      | 2        |
| 4     | 29°830     | 29°574 | 46°              | 49°    | 40°  | 51°  | 278                | 327    | 88                 | 93     | SSW                        | 1      | SSW           | 2      | 9      | 3        |
| 5     | 716        | 719    | 48°              | 51°    | 43°  | 54°  | 318                | 361    | 93                 | 93     | SW                         | 1      | SW            | 2      | 2      | 8        |
| 6     | 596        | 439    | 55°              | 55°    | 51°  | 56°  | 410                | 422    | 94                 | 95     | SW                         | 1      | SSW           | 4      | 10     | 10       |
| 7     | 566        | 696    | 49°              | 43°    | 42°  | 56°  | 322                | 273    | 93                 | 98     | SSW                        | 1      | SSE           | 2      | 9      | 0        |
| 8     | 796        | 690    | 46°              | 48°    | 40°  | 52°  | 285                | 278    | 92                 | 81     | SSW                        | 1      | SSE           | 3      | 1      | 8        |
| 9     | 493        | 307    | 47°              | 46°    | 45°  | 55°  | 304                | 275    | 94                 | 86     | SSW                        | 1      | SSE           | 1      | 1      | 2        |
| 10    | 183        | 29°279 | 48°              | 45°    | 42°  | 50°  | 278                | 266    | 82                 | 87     | SSW                        | 3      | S             | 1      | 5      | 2        |
| 11    | 29°068     | 28°546 | 46°              | 45°    | 43°  | 52°  | 283                | 254    | 89                 | 83     | S                          | 3      | SSW           | 3      | 10     | 10       |
| 12    | 28°782     | 28°992 | 39°              | 40°    | 36°  | 46°  | 196                | 231    | 82                 | 92     | SW                         | 2      | SSE           | 1      | 4      | 8        |
| 13    | 29°350     | 29°741 | 40°              | 37°    | 35°  | 52°  | 239                | 207    | 94                 | 91     | Calm                       | 0      | Calm          | 0      | 4      | 4        |
| 14    | 30°062     | 30°031 | 37°              | 49°    | 32°  | 49°  | 205                | 272    | 93                 | 77     | Calm                       | 0      | SSW           | 5      | 4      | 8        |
| 15    | 203        | 119    | 51°              | 56°    | 48°  | 57°  | 342                | 393    | 88                 | 88     | SSW                        | 0°5    | SSW           | 4      | 5      | 5        |
| 16    | 276        | 443    | 46°              | 38°    | 36°  | 56°  | 257                | 216    | 81                 | 93     | SW                         | 1      | WSW           | 1      | 4      | 4        |
| 17    | 432        | 235    | 39°              | 41°    | 36°  | 51°  | 224                | 231    | 94                 | 89     | E                          | 0°5    | SSW           | 1      | 2      | 3        |
| 18    | 30°044     | 30°082 | 45°              | 39°    | 36°  | 50°  | 267                | 203    | 88                 | 85     | S                          | 1      | SW            | 1      | 3      | 6        |
| 19    | 29°825     | 29°612 | 41°              | 38°    | 36°  | 47°  | 239                | 203    | 91                 | 87     | SSW                        | 2      | SW            | 1      | 9      | 3        |
| 20    | 593        | 853    | 39°              | 38°    | 37°  | 46°  | 215                | 202    | 88                 | 87     | NW                         | 1      | W             | 1      | 9      | 7        |
| 21    | 688        | 176    | 37°              | 53°    | 34°  | 53°  | 204                | 362    | 92                 | 89     | SSW                        | 3      | SW            | 4      | 9      | 10       |
| 22    | 119        | 170    | 45°              | 43°    | 41°  | 53°  | 242                | 239    | 79                 | 84     | W                          | 4      | SW            | 6      | 8      | 10       |
| 23    | 594        | 714    | 42°              | 35°    | 35°  | 45°  | 199                | 186    | 73                 | 91     | W                          | 2      | SW            | 1      | 7      | 2        |
| 24    | 470        | 29°388 | 32°              | 35°    | 31°  | 39°  | 179                | 191    | 96                 | 91     | ENE                        | 0°5    | NE            | 1      | 3      | 8        |
| 25    | 830        | 30°004 | 32°              | 37°    | 30°  | 45°  | 164                | 203    | 88                 | 91     | Calm                       | 0      | Calm          | 0      | 8      | 8        |
| 26    | 885        | 29°288 | 39°              | 45°    | 32°  | 46°  | 216                | 286    | 91                 | 93     | S                          | 1      | SSE           | 7      | 9      | 10       |
| 27    | 287        | 180    | 42°              | 36°    | 36°  | 50°  | 238                | 201    | 88                 | 92     | Calm                       | 0      | Calm          | 0      | 8      | 0        |
| 28    | 29°200     | 29°076 | 37°              | 42°    | 35°  | 43°  | 198                | 235    | 89                 | 84     | SW                         | 2      | SSW           | 3      | 5      | 10       |
| 29    | 28°746     | 28°900 | 39°              | 37°    | 36°  | 47°  | 213                | 207    | 88                 | 91     | W                          | 1      | SSE           | 2      | 10     | 4        |
| 30    | 28°998     | 29°078 | 41°              | 41°    | 35°  | 44°  | 237                | 212    | 92                 | 81     | W                          | 3      | WNW           | 2      | 10     | 4        |
| Means | 29°643     | 29°586 | 43°              | 43°    | 35°  | 50°  | 252                | 259    | 88                 | 88     | 1°                         | 2°     | 5°            | 6°     | 4°409  |          |

## HEREFORD.

Height above Mean Sea Level, 274 feet. Long. 2° 45' W. Lat. 52° 5' N.

NOVEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks. |       |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------|-------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |          |       |
| 1     | ins.       | ins.   | 48°              | 45°    | 43°  | 54°  | in.                | in.    | %                  | %      | WNW                        | 1      | Calm          | 0      | 3      | 6        | ins.  |
| 2     | 30°421     | 30°379 | 48°              | 45°    | 43°  | 54°  | 276                | 257    | 80                 | 85     | Calm                       | 0      | SSW           | 1      | 10     | 10       | 0°73  |
| 3     | 178        | 29°853 | 46°              | 48°    | 42°  | 52°  | 269                | 313    | 87                 | 93     | Calm                       | 0      | Calm          | 0      | 0      | 8        | —     |
| 4     | 30°068     | 30°091 | 46°              | 40°    | 40°  | 52°  | 272                | 216    | 87                 | 86     | SSW                        | 1      | SW            | 3      | 10     | 3        | 0°30  |
| 5     | 29°857     | 29°610 | 47°              | 50°    | 40°  | 54°  | 258                | 293    | 80                 | 80     | Calm                       | 0      | S             | 2      | 0      | 7        | 0°55  |
| 6     | 732        | 744    | 51°              | 51°    | 44°  | 57°  | 299                | 321    | 78                 | 83     | Calm                       | 0      | SSW           | 3      | 10     | 10       | 1°15  |
| 7     | 620        | 462    | 55°              | 56°    | 50°  | 57°  | 418                | 400    | 94                 | 86     | Calm                       | 0      | Calm          | 0      | 9      | 0        | 0°04  |
| 8     | 577        | 692    | 50°              | 42°    | 42°  | 57°  | 349                | 253    | 96                 | 93     | Calm                       | 0      | S             | 2      | 0      | 10       | 0°70  |
| 9     | 802        | 731    | 44°              | 48°    | 38°  | 55°  | 256                | 292    | 87                 | 87     | Calm                       | 0      | SSW           | 1      | 1      | 2        | 0°80  |
| 10    | 503        | 342    | 50°              | 48°    | 47°  | 57°  | 353                | 272    | 98                 | 81     | Calm                       | 0      | SSW           | 1      | 1      | 2        | 0°60  |
| 11    | 217        | 29°302 | 49°              | 46°    | 43°  | 53°  | 271                | 276    | 77                 | 89     | SW                         | 3      | S             | 2      | 9      | 5        | 2°60  |
| 12    | 29°106     | 28°580 | 47°              | 46°    | 42°  | 53°  | 295                | 260    | 89                 | 81     | SSW                        | 3      | SSW           | 2      | 10     | 10       | 0°94  |
| 13    | 28°840     | 28°980 | 40°              | 42°    | 37°  | 48°  | 217                | 238    | 87                 | 87     | SSW                        | 1      | Calm          | 0      | 2      | 4        | 0°04  |
| 14    | 30°054     | 30°095 | 39°              | 40°    | 34°  | 54°  | 205                | 285    | 95                 | 84     | Calm                       | 0      | Calm          | 0      | 3      | 0        | 0°02  |
| 15    | 217        | 140    | 52°              | 54°    | 48°  | 57°  | 389                | 404    | 98                 | 94     | Calm                       | 0      | SSW           | 2      | 3      | 9        | 0°30  |
| 16    | 277        | 447    | 49°              | 38°    | 38°  | 47°  | 276                | 213    | 79                 | 92     | SSW                        | 1      | S             | 2      | 10     | 10       | 0°05  |
| 17    | 424        | 243    | 35°              | 39°    | 35°  | 51°  | 205                | 234    | 97                 | 97     | SW                         | 1      | Calm          | 0      | 5      | 4        | —     |
| 18    | 30°053     | 30°084 | 45°              | 36°    | 35°  | 51°  | 275                | 199    | 92                 | 92     | Calm                       | 0      | Calm          | 0      | 7      | 0        | 0°02  |
| 19    | 29°846     | 29°625 | 42°              | 40°    | 32°  | 48°  | 245                | 204    | 91                 | 82     | SSW                        | 1      | Calm          | 0      | 7      | 0        | 0°43  |
| 20    | 570        | 848    | 42°              | 38°    | 37°  | 47°  | 218                | 202    | 82                 | 86     | SSW                        | 1      | WNW           | 1      | 10     | 0        | 0°106 |
| 21    | 702        | 232    | 39°              | 55°    | 36°  | 56°  | 230                | 348    | 97                 | 78     | NW                         | 3      | NW            | 1      | 10     | 1        | 0°40  |
| 22    | 146        | 139    | 48°              | 24°    | 45°  | 38°  | 238                | 239    | 71                 | 80     | WSW                        | 4      | W             | 4      | 2      | 10       | 0°35  |
| 23    | 593        | 706    | 43°              | 38°    | 37°  | 47°  | 203                | 200    | 71                 | 87     | W                          | 3      | Calm          | 0      | 2      | 1        | 0°10  |
| 24    | 441        | 29°282 | 37°              | 39°    | 34°  | 50°  | 217                | 199    | 97                 | 82     | Calm                       | 0      | NE            | 3      | 10     | 10       | 0°60  |
| 25    | 827        | 30°005 | 37°              | 34°    | 31°  | 46°  | 171                | 186    | 75                 | 93     | WNW                        | 2      | Calm          | 0      | 5      | 0        | 0°06  |
| 26    | 881        | 29°358 | 38°              | 46°    | 32°  | 46°  | 222                | 297    | 95                 | 95     | Calm                       | 0      | SSE           | 2      | 10     | 10       | 0°70  |
| 27    | 290        | 159    | 41°              | 38°    | 37°  | 50°  | 244                | 215    | 94                 | 94     | Calm                       | 0      | Calm          | 0      | 6      | 0        | 0°60  |
| 28    | 20°204     | 29°095 | 39°              | 41°    | 34°  | 45°  | 199                | 225    | 84                 | 88     | WSW                        | 1      | S             | 1      | 3      | 2        | 2°50  |
| 29    | 28°772     | 28°898 | 40°              | 39°    | 37°  | 48°  | 230                | 206    | 91                 | 86     | W                          | 1      | S             | 1      | 10     | 2        | 1°10  |
| 30    | 29°024     | 29°075 | 42°              | 39°    | 37°  | 48°  | 234                | 218    | 88                 | 91     | W                          | 1      | Calm          | 0      | 9      | 2        | 0°12  |
| Means | 29°652     | 29°596 | 44°              | 44°    | 38°  | 52°  | 259                | 257    | 87°8               | 87°6   | 1°0                        | 1°2    | 6°2           | 4°9    | 2°840  |          |       |



## CARMARTHEN.

Height above Mean Sea Level, 188 feet. Long. 4° 18' W. Lat. 51° 52' N.  
NOVEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks. |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |          |
| 1     | ins.       | ins.   | 45.9             | 48.1   | 41.0 | 57.8 | ins.               | ins.   | 91                 | 86     | Calm                       | 0      | 1             | 10     | ins.   |          |
| 2     | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 3     | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 4     | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 5     | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 6     | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 7     | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 8     | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 9     | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 10    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 11    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 12    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 13    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 14    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 15    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 16    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 17    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 18    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 19    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 20    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 21    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 22    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 23    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 24    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 25    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 26    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 27    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 28    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 29    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| 30    | 30.449     | 30.361 | 45.9             | 48.1   | 41.0 | 57.8 | 278                | 289    | 91                 | 86     | Calm                       | 0      | 1             | 10     | 2.00   |          |
| Means | 29.642     | 29.582 | 46.4             | 45.8   | 39.6 | 53.2 | 291                | 297    | 91.1               | 94.5   | 1.6                        | 1.8    | 6.5           | 6.8    | 8.630  |          |

## MARLBOROUGH, WILTS.

Height above Mean Sea Level, 471 feet. Long. 1° 43' W. Lat. 51° 25' N.  
NOVEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks. |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |          |
| 1     | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 2     | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 3     | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 4     | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 5     | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 6     | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 7     | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 8     | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 9     | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 10    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 11    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 12    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 13    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 14    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 15    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 16    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 17    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 18    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 19    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 20    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 21    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 22    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 23    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 24    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 25    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 26    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 27    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 28    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 29    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| 30    | 30.438     | 30.437 | 46.6             | 40.1   | 40.1 | 57.4 | 269                | 238    | 86                 | 96     | W                          | 0.6    | Calm          | 0      | 1      | 2        |
| Means | 29.715     | 29.665 | 43.3             | 43.1   | 38.1 | 51.5 | 265                | 265    | 92.1               | 93.0   | 0.8                        | 1.2    | 7.1           | 4.7    | 7.016  |          |

## STRATHFIELD TURGISS.

Height above Mean Sea Level, 195 feet. Long. 1° 0' W. Lat. 51° 20' N.  
NOVEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks. |                             |     |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------|-----------------------------|-----|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |          |                             |     |
| 1     | ins.       | ins.   | 51.0             | 36.0   | 35.3 | 57.7 | ins.               | ins.   | 202                | 90     | W                          | 1      | NW            | 1      | 0      | 0        | ins.                        |     |
| 2     | 30.419     | 30.441 | 40.1             | 39.1   | 31.2 | 53.3 | 271                | 239    | 301                | 97     | 86                         | Calm   | 0             | S      | 1      | 10       | 10                          | ga. |
| 3     | 253        | 29.930 | 40.1             | 39.1   | 35.2 | 55.1 | 262                | 298    | 79                 | 96     | W                          | 1      | NW            | 1      | 0      | 0        | —                           |     |
| 4     | 30.064     | 30.141 | 47.9             | 35.6   | 35.2 | 55.1 | 262                | 298    | 79                 | 96     | S                          | 1      | SE            | 1      | 5      | 4        | 040                         |     |
| 5     | 29.960     | 29.716 | 47.1             | 50.7   | 30.4 | 53.4 | 246                | 297    | 76                 | 81     | SW                         | 1      | W             | 1      | 0      | 0        | 103                         |     |
| 6     | 788        | 857    | 49.5             | 49.2   | 45.9 | 58.0 | 309                | 322    | 89                 | 93     | SW                         | 1      | W             | 1      | 0      | 0        | in squalls, op. and before. |     |
| 7     | 708        | 632    | 56.2             | 56.7   | 48.9 | 58.2 | 422                | 394    | 93                 | 86     | SW                         | 2      | SW            | 3      | 10     | 10       | 655                         |     |
| 8     | 642        | 727    | 51.7             | 49.2   | 49.0 | 57.2 | 367                | 338    | 96                 | 97     | Calm                       | 0      | W             | 1      | 10     | 8        | —                           |     |
| 9     | 846        | 860    | 47.3             | 48.8   | 38.6 | 57.6 | 302                | 297    | 93                 | 86     | Calm                       | 0      | SW            | 2      | 0      | 6        | 127                         |     |
| 10    | 611        | 371    | 53.5             | 52.2   | 47.3 | 50.5 | 378                | 364    | 93                 | 93     | SW                         | 2      | SW            | 2      | 10     | 10       | 154                         |     |
| 9     | 386        | 29.403 | 53.5             | 47.6   | 45.4 | 56.6 | 281                | 290    | 70                 | 80     | SW                         | 3      | SW            | 1      | 8      | 2        | 201                         |     |
| 11    | 29.323     | 28.748 | 48.0             | 50.4   | 47.3 | 51.7 | 303                | 351    | 91                 | 96     | S                          | 2      | S             | 3      | 10     | 10       | 980                         |     |
| 12    | 28.957     | 29.050 | 43.3             | 43.3   | 40.3 | 53.1 | 231                | 260    | 82                 | 93     | S                          | 2      | Calm          | 0      | 3      | 10       | 093                         |     |
| 13    | 29.331     | 29.743 | 40.1             | 36.2   | 33.3 | 51.3 | 246                | 208    | 99                 | 97     | Calm                       | 0      | NE            | 1      | 10     | 0        | —                           |     |
| 14    | 30.084     | 30.223 | 39.0             | 45.1   | 31.1 | 51.0 | 219                | 255    | 93                 | 85     | Calm                       | 0      | SW            | 1      | 0      | 3        | 058                         |     |
| 15    | 287        | 264    | 52.5             | 54.5   | 45.0 | 55.3 | 373                | 404    | 95                 | 96     | SW                         | 2      | S             | 2      | 10     | 10       | 035                         |     |
| 16    | 259        | 462    | 56.0             | 35.1   | 34.9 | 50.6 | 389                | 202    | 87                 | 99     | W                          | 1      | Calm          | 0      | 7      | 2        | —                           |     |
| 17    | 454        | 292    | 37.6             | 33.2   | 28.8 | 54.1 | 201                | 185    | 90                 | 98     | Calm                       | 0      | Calm          | 0      | 8      | 4        | —                           |     |
| 18    | 30.136     | 30.115 | 40.0             | 37.6   | 30.0 | 53.3 | 237                | 219    | 96                 | 98     | Calm                       | 0      | W             | 1      | 10     | 10       | 005                         |     |
| 19    | 29.958     | 29.647 | 42.5             | 41.8   | 30.3 | 48.8 | 254                | 230    | 94                 | 88     | S                          | 1      | SW            | 1      | 10     | 0        | 105                         |     |
| 20    | 593        | 851    | 36.6             | 38.0   | 34.8 | 46.3 | 196                | 190    | 91                 | 83     | W                          | 2      | NW            | 1      | 8      | 0        | —                           |     |
| 21    | 823        | 410    | 39.4             | 52.5   | 34.5 | 52.6 | 160                | 260    | 89                 | 91     | S                          | 1      | S             | 3      | 10     | 10       | 207                         |     |
| 22    | 274        | 263    | 47.5             | 44.3   | 41.0 | 54.1 | 265                | 222    | 82                 | 75     | SW                         | 2      | SW            | 3      | 8      | 0        | 103                         |     |
| 23    | 608        | 756    | 43.6             | 37.7   | 36.8 | 47.9 | 199                | 198    | 70                 | 88     | W                          | 2      | NW            | 1      | 0      | 10       | 048                         |     |
| 24    | 478        | 29.109 | 38.9             | 39.9   | 33.5 | 41.5 | 225                | 227    | 95                 | 93     | Calm                       | 0      | NE            | 2      | 10     | 10       | 076                         |     |
| 25    | 784        | 30.010 | 36.5             | 35.4   | 34.4 | 45.1 | 160                | 183    | 75                 | 89     | NW                         | 1      | W             | 1      | 0      | 1        | —                           |     |
| 26    | 960        | 29.518 | 33.8             | 45.6   | 30.0 | 49.6 | 181                | 287    | 93                 | 94     | Calm                       | 0      | S             | 2      | 8      | 10       | 325                         |     |
| 27    | 334        | 178    | 48.5             | 42.2   | 41.7 | 51.4 | 308                | 258    | 91                 | 96     | W                          | 1      | NW            | 1      | 9      | 8        | 524                         |     |
| 28    | 29.283     | 231    | 39.0             | 42.0   | 36.4 | 48.3 | 206                | 245    | 87                 | 92     | SW                         | 1      | NW            | 1      | 2      | 3        | 173                         |     |
| 29    | 28.799     | 038    | 43.7             | 40.1   | 37.2 | 48.4 | 244                | 206    | 85                 | 83     | SW                         | 2      | SW            | 1      | 10     | 9        | 054                         |     |
| 30    | 29.094     | 29.255 | 40.1             | 40.7   | 34.0 | 47.3 | 215                | 218    | 87                 | 86     | W                          | 1      | W             | 1      | 6      | 5        | 020                         |     |
| Means | 29.717     | 29.675 | 44.8             | 43.7   | 37.4 | 52.4 | 265                | 264    | 87.7               | 90.8   | 1.1                        | 1.3    | 6.4           | 5.2    | 5.153  |          |                             |     |



## HASTINGS.

Height above Mean Sea Level, 172 feet. Long. 0° 38' E. Lat. 50° 52' N.

NOVEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks. |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |          |
| 1     | ins.       | ins.   | 47.8             | 45.6   | 41.6 | 50.2 | ins.               | ins.   | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 2     | 30.411     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 3     | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 4     | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 5     | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 6     | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 7     | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 8     | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 9     | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 10    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 11    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 12    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 13    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 14    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 15    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 16    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 17    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 18    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 19    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 20    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 21    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 22    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 23    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 24    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 25    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 26    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 27    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 28    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 29    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| 30    | 30.409     | 30.424 | 47.8             | 45.6   | 41.6 | 50.2 | 265                | 258    | 80                 | 85     | W 2                        | NE 1   | 0             | 0      | ins.   |          |
| Means | 29.752     | 29.708 | 47.9             | 48.1   | 42.8 | 52.6 | 262                | 262    | 86.2               | 85.5   | 3.7                        | 4.0    | 6.4           | 6.1    | 7.390  |          |

## DARTMOOR.

Height above Mean Sea Level, 1,372 feet. Long. 3° 59' W. Lat. 50° 33' N.

NOVEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks. |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |          |
| 1     | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 2     | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 3     | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 4     | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 5     | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 6     | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 7     | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 8     | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 9     | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 10    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 11    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 12    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 13    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 14    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 15    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 16    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 17    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 18    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 19    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 20    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 21    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 22    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 23    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 24    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 25    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 26    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 27    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 28    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 29    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| 30    | 30.549     | 30.467 | 46.2             | 44.2   | 40.5 | 50.6 | 253                | 233    | 82                 | 80     | NW 1                       | NW 1   | 10            | 10     | —      |          |
| Means | 29.801     | 29.737 | 43.3             | 42.5   | 37.8 | 47.8 | 261                | 261    | 91.9               | 93.8   | 2.9                        | 3.4    | 7.9           | 7.1    | 15.800 |          |

## BABBICOMBE, DEVON.

Height above Mean Sea Level, 293 feet. Long. 3° 31' W. Lat. 50° 29' N.

NOVEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks.                         |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------------------------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |                                  |
| 1     | ins.       | ins.   | 51.8             | 46.8   | 44.8 | 60.0 | ins.               | ins.   | 77                 | 82     | WSW 1                      | SW 1   | 6             | 5      | ins.   | ☼ op. and before.                |
| 2     | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | S 3                        | SSW 3  | 10            | 10     | .020   | ☼ during day, and 10.20p.—10.45p |
| 3     | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | W 1                        | WSW 1  | 1             | 6      | —      | ☼ 2p.—4p. ☼ 9p.                  |
| 4     | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | WSW 3                      | SW 4   | 6             | 7      | .030   | ☼ before 9a.                     |
| 5     | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | WSW 2                      | SW 4   | 1             | 7      | .130   | ☼ p. ☼ before, ☼ after 9p        |
| 6     | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | WSW 3                      | SSW 7  | 10            | 10     | .240   | ☼ p. ☼ before, ☼ after 9p        |
| 7     | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | WSW 2                      | SW 2   | 9             | 1      | .050   | ☼ p. ☼ before, ☼ after 9p        |
| 8     | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | SW 1                       | SSW 6  | 6             | 10     | .330   | ☼ p. ☼ before, ☼ after 9p        |
| 9     | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | SW 1                       | SW 5   | 10            | 1      | .370   | ☼ p. ☼ before, ☼ after 9p        |
| 10    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | WSW 6                      | WSW 6  | 10            | 1      | .330   | ☼ p. ☼ before, ☼ after 9p        |
| 11    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | SSW 8                      | WSW 4  | 10            | 10     | 1.250  | ☼ p. ☼ before, ☼ after 9p        |
| 12    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | SW 3                       | WSW 4  | 9             | 1      | .200   | ☼ p. ☼ before, ☼ after 9p        |
| 13    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | W 1                        | WSW 2  | 3             | 1      | .040   | ☼ p. ☼ before, ☼ after 9p        |
| 14    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | SW 1                       | SSW 6  | 1             | 9      | .110   | ☼ p. ☼ before, ☼ after 9p        |
| 15    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | SSW 2                      | SW 4   | 10            | 10     | .060   | ☼ p. ☼ before, ☼ after 9p        |
| 16    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | NNW 1                      | Calm   | 0             | 4      | 1      | ☼ at night.                      |
| 17    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | SW 1                       | Calm   | 0             | 3      | 10     | ☼ after 7p. ☼ after 11p.         |
| 18    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | WSW 2                      | WSW 1  | 9             | 2      | .060   | ☼ p. ☼ before, ☼ after 9p        |
| 19    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | SW 2                       | W 2    | 10            | 2      | .100   | ☼ p. ☼ before, ☼ after 9p        |
| 20    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | WNW 4                      | NW 2   | 2             | 7      | .190   | ☼ p. ☼ before, ☼ after 9p        |
| 21    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | WSW 2                      | WSW 8  | 10            | 10     | .180   | ☼ p. ☼ before, ☼ after 9p        |
| 22    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | WSW 6                      | W 6    | 7             | 3      | .130   | ☼ p. ☼ before, ☼ after 9p        |
| 23    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | WNW 4                      | Calm   | 0             | 2      | .690   | ☼ p. ☼ before, ☼ after 9p        |
| 24    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | ENE 1                      | ENE 8  | 10            | 10     | 1.210  | ☼ p. ☼ before, ☼ after 9p        |
| 25    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | WNW 1                      | WSW 2  | 1             | 2      | —      | ☼ p. ☼ before, ☼ after 9p        |
| 26    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | SW 1                       | SSW 4  | 9             | 10     | .770   | ☼ p. ☼ before, ☼ after 9p        |
| 27    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | WSW 1                      | W 3    | 9             | 2      | .520   | ☼ p. ☼ before, ☼ after 9p        |
| 28    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | WSW 3                      | SSW 6  | 1             | 3      | .410   | ☼ p. ☼ before, ☼ after 9p        |
| 29    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | W 2                        | WSW 3  | 4             | 1      | .070   | ☼ p. ☼ before, ☼ after 9p        |
| 30    | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | W 4                        | WSW 2  | 3             | 10     | .060   | ☼ p. ☼ before, ☼ after 9p        |
| Means | 30.485     | 30.410 | 51.8             | 46.8   | 45.1 | 53.4 | 283                | 343    | 77                 | 92     | 2.4                        | 3.5    | 6.2           | 5.7    | 7.540  | ☼ p. ☼ before, ☼ after 9p        |



## MARKREE CASTLE.

Height above Mean Sea Level, 131 feet. Long. 8° 27' W. Lat. 54° 11' N.

NOVEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks. |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |          |
| 1     | ins.       | ins.   | 47.5             | 49.5   | 43.1 | 52.3 | ins.               | ins.   | 86                 | 89     | Calm                       | SE 2   | 10            | 10     | ins.   |          |
| 2     | 30.366     | 30.147 | 47.5             | 49.5   | 43.1 | 52.3 | 278                | 311    | 86                 | 89     | SSW 3                      | WNW 3  | 10            | 5      | .451   |          |
| 3     | 30.005     | .777   | 43.1             | 48.6   | 37.9 | 51.4 | 239                | 284    | 85                 | 83     | SW 2                       | ESE 3  | 7             | 10     | .040   |          |
| 4     | 29.452     | .407   | 49.9             | 47.1   | 45.9 | 53.1 | 320                | 290    | 90                 | 90     | SSW 4                      | WSW 2  | 9             | 5      | .144   |          |
| 5     | .571       | .479   | 46.6             | 53.3   | 41.1 | 54.4 | 285                | 373    | 90                 | 92     | SSE 2                      | SSW 3  | 10            | 10     | .217   |          |
| 6     | .416       | .262   | 49.9             | 45.6   | 44.1 | 53.6 | 340                | 282    | 95                 | 93     | SSW 3                      | Calm   | 8             | 10     | .236   |          |
| 7     | .407       | .536   | 44.2             | 42.0   | 38.6 | 50.6 | 270                | 245    | 92                 | 92     | S 2                        | SW 2   | 6             | 0      | .005   |          |
| 8     | .663       | 29.270 | 37.3             | 48.7   | 31.1 | 49.0 | 218                | 331    | 98                 | 96     | SSE 1                      | SSW 4  | 8             | 10     | .088   |          |
| 9     | 29.266     | 28.991 | 44.5             | 44.3   | 41.6 | 50.0 | 271                | 263    | 93                 | 91     | SE 3                       | SSE 4  | 10            | 10     | .098   |          |
| 10    | 28.908     | 29.064 | 41.3             | 43.1   | 38.4 | 51.0 | 241                | 261    | 93                 | 93     | SSE 1                      | SSW 2  | 5             | 10     | .121   |          |
| 11    | .319       | 28.326 | 50.2             | 39.7   | 39.5 | 52.1 | 337                | 216    | 93                 | 88     | SSE 6                      | Calm   | 10            | 10     | .139   |          |
| 12    | 28.399     | 28.843 | 38.1             | 44.1   | 35.4 | 47.2 | 194                | 235    | 84                 | 81     | SSE 5                      | SW 2   | 8             | 6      | .218   |          |
| 13    | 29.276     | 29.655 | 40.1             | 36.4   | 35.5 | 49.0 | 221                | 198    | 89                 | 92     | SSW 2                      | WSW 1  | 6             | 1      | .002   |          |
| 14    | 29.800     | .726   | 41.1             | 54.3   | 30.3 | 54.9 | 220                | 387    | 85                 | 92     | SSE 3                      | W 2    | 8             | 10     | .054   |          |
| 15    | 30.072     | 29.800 | 47.6             | 53.0   | 43.5 | 57.1 | 313                | 306    | 95                 | 76     | SW 1                       | SW 4   | 10            | 8      | .044   |          |
| 16    | .183       | 30.323 | 44.1             | 40.1   | 39.3 | 53.5 | 235                | 208    | 81                 | 84     | S 2                        | SW 2   | 1             | 3      | .020   |          |
| 17    | 30.209     | 29.939 | 42.1             | 45.4   | 36.8 | 49.4 | 246                | 283    | 92                 | 94     | SW 2                       | WSW 4  | 1             | 10     | .128   |          |
| 18    | 29.949     | .912   | 41.0             | 40.2   | 34.8 | 48.1 | 221                | 211    | 86                 | 85     | SSW 1                      | S 2    | 0             | 10     | .356   |          |
| 19    | .888       | .587   | 44.1             | 41.2   | 39.5 | 48.2 | 271                | 201    | 93                 | 78     | WNW 3                      | NW 4   | 8             | 10     | .244   |          |
| 20    | .821       | .850   | 42.9             | 37.7   | 36.3 | 46.2 | 203                | 200    | 74                 | 89     | NNW 3                      | S 1    | 8             | 10     | .214   |          |
| 21    | 29.400     | .003   | 39.1             | 43.3   | 37.2 | 54.2 | 233                | 237    | 97                 | 84     | S 2                        | WNW 4  | 10            | 2      | .432   |          |
| 22    | 28.859     | .263   | 44.6             | 42.1   | 41.7 | 48.2 | 248                | 253    | 84                 | 94     | WNW 5                      | NNW 5  | 10            | 7      | .410   |          |
| 23    | 29.637     | .592   | 40.1             | 34.6   | 33.4 | 47.9 | 212                | 159    | 85                 | 94     | W 3                        | Calm   | 4             | 5      | .014   |          |
| 24    | .376       | .605   | 35.5             | 38.1   | 30.2 | 41.2 | 205                | 217    | 99                 | 95     | Calm                       | Calm   | 10            | 10     | .056   |          |
| 25    | .921       | .908   | 36.1             | 36.3   | 31.9 | 43.1 | 203                | 199    | 95                 | 93     | Calm                       | SSW 1  | 10            | 5      | .010   |          |
| 26    | .616       | .120   | 39.9             | 45.9   | 36.0 | 48.6 | 223                | 293    | 91                 | 95     | ESE 3                      | WNW 2  | 10            | 10     | .200   |          |
| 27    | 29.153     | 29.023 | 35.0             | 36.1   | 33.1 | 40.4 | 192                | 188    | 94                 | 88     | SE 1                       | WNW 2  | 7             | 3      | .110   |          |
| 28    | 28.941     | 28.738 | 37.1             | 35.7   | 33.4 | 43.1 | 195                | 202    | 88                 | 97     | SSW 2                      | Calm   | 3             | 10     | .390   |          |
| 29    | .648       | .841   | 36.1             | 32.1   | 29.8 | 41.4 | 205                | 176    | 96                 | 96     | WNW 2                      | Calm   | 5             | 10     | .183   |          |
| 30    | 28.940     | 28.982 | 45.3             | 42.6   | 32.1 | 46.9 | 209                | 249    | 70                 | 91     | NNW 6                      | SW 1   | 9             | 10     | .235   |          |
| Means | 29.467     | 29.426 | 42.5             | 42.9   | 37.2 | 49.5 | 246                | 251    | 89.6               | 89.7   | 2.4                        | 2.1    | 7.4           | 7.7    | 4.916  |          |

## DUBLIN.

Height above Mean Sea Level, 51 feet. Long. 6° 15' W. Lat. 53° 20' N.

NOVEMBER 1877.

|       |        |        |      |      |      |      |      |      |      |      |        |         |     |     |       |                                            |
|-------|--------|--------|------|------|------|------|------|------|------|------|--------|---------|-----|-----|-------|--------------------------------------------|
| 1     | 30.439 | 30.277 | 48.1 | 50.4 | 44.3 | 53.0 | .266 | .282 | 79   | 78   | W 2    | SSW 1   | 9   | 7   | —     |                                            |
| 2     | 29.996 | 29.886 | 52.4 | 45.9 | 45.1 | 53.8 | .297 | .288 | 76   | 94   | SW 4   | WNW 3   | 9   | 3   | .136  | in squalls, ga.                            |
| 3     | 30.051 | .945   | 43.2 | 50.1 | 39.4 | 55.7 | .232 | .272 | 83   | 75   | Wb.N 3 | SW 2    | 4   | 10  | .010  | Clear and frosty morning.                  |
| 4     | 29.607 | .479   | 52.6 | 48.0 | 46.2 | 53.9 | .308 | .281 | 77   | 85   | S 4    | SW 5    | 8   | 1   | .159  | a. and p. sp.                              |
| 5     | .668   | .526   | 47.6 | 55.3 | 46.0 | 55.7 | .290 | .386 | 89   | 88   | W 2    | SSW 5   | 4   | 10  | .160  | Cloudless and cool, early a. Squally,      |
| 6     | .523   | .845   | 51.7 | 49.9 | 49.4 | 56.2 | .317 | .294 | 83   | 84   | Calm   | W.S.W 4 | 10  | 5   | .028  |                                            |
| 7     | .497   | .586   | 48.0 | 46.4 | 44.0 | 52.3 | .265 | .244 | 80   | 78   | SW 3   | SW 3    | 2   | 0   | —     | Bright and fine throughout.                |
| 8     | .723   | .450   | 45.1 | 51.2 | 41.9 | 51.5 | .254 | .320 | 85   | 85   | SW 2   | S 3     | 1   | 10  | .020  | Frosty, a.                                 |
| 9     | 29.366 | .121   | 48.7 | 48.2 | 45.2 | 54.0 | .301 | .283 | 88   | 85   | SSW 1  | SSW 2   | 10  | 8   | .254  |                                            |
| 10    | 28.972 | 29.161 | 45.1 | 46.6 | 43.9 | 49.3 | .259 | .265 | 86   | 84   | SW 2   | SW 4    | 10  | 5   | .031  | Squally, p.                                |
| 11    | .678   | 28.455 | 51.7 | 43.0 | 42.4 | 55.7 | .305 | .232 | 80   | 83   | Sw.W 4 | W 4     | 10  | 8   | .361  | Squalls, a. a. and p. Much colder, p.      |
| 12    | 28.608 | 28.907 | 40.8 | 42.5 | 37.3 | 46.7 | .176 | .241 | 69   | 89   | SW 4   | SW 2    | 5   | 6   | .030  | Cold, early a.                             |
| 13    | 29.309 | 29.747 | 45.6 | 39.2 | 39.2 | 48.3 | .266 | .220 | 87   | 92   | WSW 1  | Calm    | 0   | 5   | —     | Frosty, p.                                 |
| 14    | 29.938 | .777   | 39.1 | 56.0 | 36.1 | 56.7 | .219 | .368 | 92   | 82   | Calm   | SW 6    | 4   | 10  | .030  | [S.W., p.                                  |
| 15    | 30.170 | 29.908 | 50.2 | 58.4 | 48.3 | 60.4 | .298 | .415 | 83   | 85   | WSW 2  | SW 6    | 8   | 7   | —     | Much warmer. in squalls from               |
| 16    | .248   | 30.399 | 45.2 | 44.0 | 43.6 | 58.9 | .235 | .238 | 78   | 82   | WSW 2  | W 3     | 0   | 4   | —     | in squalls, with great warmth, p.          |
| 17    | 30.342 | .093   | 43.9 | 46.5 | 41.3 | 49.7 | .244 | .240 | 85   | 77   | SW 1   | SSW 4   | 1   | 2   | .096  | Much colder, a. sp.                        |
| 18    | 29.991 | 30.010 | 43.3 | 42.9 | 41.8 | 48.7 | .233 | .218 | 83   | 80   | W 4    | Wb.S 3  | 0   | 6   | .051  | Very bright throughout.                    |
| 19    | .595   | 29.621 | 48.2 | 40.1 | 39.8 | 49.8 | .290 | .266 | 87   | 83   | WSW 2  | Wb.N 4  | 8   | 1   | .016  | Very bright and dry, but cool.             |
| 20    | .774   | .903   | 39.0 | 37.1 | 36.9 | 45.2 | .199 | .197 | 84   | 89   | WNW 3  | Wb.N 2  | 2   | 5   | .077  | a. Cold and fresh breeze, p.               |
| 21    | 29.513 | .119   | 44.2 | 47.7 | 36.9 | 54.0 | .272 | .283 | 94   | 86   | SW 1   | Wb.S 6  | 10  | 9   | .569  | Bright, dry, and bracing. [p.              |
| 22    | 28.987 | .211   | 45.2 | 43.4 | 43.0 | 48.3 | .235 | .230 | 78   | 81   | Wb.S 7 | WNW 6   | 4   | 3   | .118  | Squally, S.W. wind from loc. 6.15 p.       |
| 23    | 29.638 | .652   | 39.9 | 39.3 | 38.2 | 48.3 | .192 | .213 | 78   | 89   | Wb.N 5 | W 2     | 1   | 5   | —     | a. and p., with squalls. sp.               |
| 24    | .399   | .515   | 34.3 | 40.3 | 32.9 | 44.3 | .182 | .223 | 92   | 90   | Calm   | NNE 2   | 6   | 4   | .170  | Squally, a. Brilliant meteor to E. at 8 p. |
| 25    | .888   | .971   | 36.9 | 39.2 | 34.9 | 41.4 | .194 | .216 | 89   | 90   | W 3    | WSW 2   | 4   | 5   | —     | late p.                                    |
| 26    | .747   | .141   | 43.1 | 51.8 | 38.0 | 52.0 | .231 | .343 | 82   | 88   | S 2    | SW 3    | 9   | 6   | .025  | 100. ∞ p.                                  |
| 27    | .231   | 29.123 | 40.9 | 38.2 | 37.8 | 52.0 | .220 | .193 | 87   | 84   | SW 1   | WSW 3   | 4   | 1   | —     |                                            |
| 28    | 29.094 | 28.762 | 39.1 | 43.7 | 36.3 | 43.9 | .200 | .235 | 84   | 82   | WSW 4  | SSE 2   | 4   | 10  | .011  | Bright and cold all day.                   |
| 29    | 28.750 | 28.796 | 38.0 | 40.0 | 35.5 | 45.5 | .192 | .222 | 84   | 90   | WSW 2  | WSW 2   | 2   | 10  | .066  |                                            |
| 30    | 28.972 | 29.008 | 42.7 | 42.0 | 36.9 | 46.6 | .213 | .223 | 78   | 84   | W 6    | Wb.N 5  | 7   | 9   | .020  | Squalls, early a. ∞. a. and p.             |
| Means | 29.557 | 29.496 | 44.5 | 45.6 | 40.8 | 51.1 | .246 | .262 | 83.3 | 84.7 | 2.6    | 3.3     | 5.3 | 5.7 | 2.438 | [Dry searching air all day.                |

## BIRR CASTLE, PARSONSTOWN.

Height above Mean Sea Level, 182 feet. Long. 7° 55' W. Lat. 53° 6' N.

NOVEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks. |       |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------|-------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |          |       |
| 1     | ins.       | ins.   | 48.6             | 50.2   | 44.5 | 53.4 | ins.               | ins.   | 89                 | 89     | S                          | 0.5    | SW            | 1      | 10     | ins.     | a.    |
| 2     | 30.431     | 30.217 | 48.6             | 50.2   | 44.5 | 53.4 | .285               | .320   | 83                 | 89     | SSE                        | 1      | SW            | 0.5    | 10     | 0        |       |
| 3     | 29.960     | 29.940 | 51.3             | 42.6   | 42.5 | 53.2 | .347               | .262   | 92                 | 96     | SW                         | 0.5    | SE            | 2      | 9      | 10       | .198  |
| 4     | 30.071     | .871   | 44.6             | 49.0   | 37.2 | 53.0 | .276               | .294   | 94                 | 85     | SW                         | 1      | W             | 1      | 8      | 8        | .091  |
| 5     | 29.555     | .503   | 48.7             | 47.1   | 40.4 | 55.2 | .328               | .297   | 96                 | 92     | SSW                        | 1      | SW            | 1-2    | 10     | 10       | .206  |
| 6     | .672       | .511   | 47.3             | 54.2   | 43.8 | 56.0 | .319               | .406   | 98                 | 97     | S                          | 0.5    | SSW           | 0.5    | 10     | 0        | .095  |
| 7     | .507       | .354   | 49.3             | 46.0   | 45.7 | 55.6 | .323               | .283   | 92                 | 92     | SSW                        | 0.5    | Calm          | 0      | 2      | 0        | .002  |
| 8     | .470       | .584   | 45.5             | 41.4   | 40.3 | 53.5 | .266               | .249   | 88                 | 95     | SW                         | 0.5    | SSW           | 3      | 7      | 10       | .310  |
| 9     | .720       | .348   | 41.3             | 51.4   | 36.8 | 52.3 | .245               | .366   | 95                 | 96     | SSE                        | 0.5    | SSE           | 1      | 10     | 9        | .227  |
| 10    | 29.342     | .022   | 44.4             | 45.5   | 43.5 | 52.5 | .278               | .270   | 95                 | 89     | SSE                        | 1      | SW            | 2      | 3      | 8        | .298  |
| 11    | 28.969     | 29.177 | 43.1             | 43.6   | 39.8 | 49.6 | .254               | .261   | 91                 | 92     | S                          | 4      | SW            | 2      | 10     | 10       | .758  |
| 12    | .538       | 28.476 | 50.5             | 39.1   | 38.0 | 52.8 | .347               | .221   | 94                 | 93     | SSE                        | 1      | SSW           | 0.5    | 4      | 9        | .021  |
| 13    | 28.563     | 28.940 | 38.1             | 40.4   | 34.0 | 44.3 | .194               | .244   | 84                 | 98     | SW                         | 0.5    | W             | 0.5    | 10     | 0        | .141  |
| 14    | 29.326     | 29.718 | 43.2             | 34.7   | 34.6 | 46.5 | .255               | .200   | 91                 | 99     | SSE                        | 1      | SE            | 3      | 10     | 10       | .080  |
| 15    | 29.878     | .811   | 39.7             | 54.5   | 34.0 | 55.3 | .226               | .408   | 92                 | 96     | SSW                        | 0.5    | W             | 3-4    | 10     | 10       | .083  |
| 16    | 30.154     | 29.942 | 46.3             | 55.5   | 44.8 | 57.8 | .207               | .418   | 95                 | 95     | SW                         | 3      | Calm          | 0      | 0      | 8        | .002  |
| 17    | .277       | 30.408 | 45.0             | 38.8   | 38.5 | 56.4 | .233               | .222   | 78                 | 95     | SE                         | 0.5    | S             | 1      | 1      | 9        | .226  |
| 18    | 30.037     | 29.991 | 42.2             | 39.7   | 38.6 | 48.0 | .250               | .224   | 92                 | 92     | SW                         | 0.5    | SW            | 0.5    | 8      | 9        | .118  |
| 19    | 29.638     | .686   | 43.4             | 38.5   | 36.8 | 47.6 | .255               | .205   | 91                 | 88     | WNW                        | 2-3    | W             | 1      | 8      | 4        | .935  |
| 20    | .862       | .918   | 39.4             | 36.7   | 35.0 | 45.8 | .274               | .202   | 89                 | 93     | WNW                        | 0.5    | SSW           | 0.5    | 0      | 10       | .413  |
| 21    | .497       | .144   | 50.7             | 44.4   | 36.3 | 53.7 | .368               | .257   | 99                 | 88     | W                          | 1      | SW            | 4.5    | 10     | 10       | .660  |
| 22    | .043       | .382   | 45.7             | 43.7   | 42.0 | 49.6 | .249               | .223   | 87                 | 78     | W                          | 5-6    | WSW           | 4      | 7      | 6        | .133  |
| 23    | .699       | .652   | 39.7             | 35.3   | 35.0 | 46.3 | .205               | .205   | 84                 | 99     | SW                         | 0.5    | SW            | 0.5    | 0      | 7        | —     |
| 24    | .375       | .606   | 31.1             | 38.0   | 29.2 | 41.5 | .169               | .220   | 97                 | 96     | Calm                       | 0      | NW            | 0.5    | 8      | 10       | .181  |
| 25    | .946       | .977   | 33.6             | 38.1   | 31.6 | 43.8 | .183               | .221   | 94                 | 96     | SW                         | 0.5    | SW            | 0.5    | 9      | 10       | .001  |
| 26    | .677       | .174   | 41.1             | 49.2   | 35.3 | 51.1 | .238               | .337   | 93                 | 97     | SE                         | 0.5    | SW            | 0.5    | 10     | 8        | .161  |
| 27    | .227       | 29.143 | 38.4             | 35.4   | 33.8 | 50.3 | .226               | .202   | 98                 | 97     | SW                         | 1      | SW            | 1      | 8      | 9        | .300  |
| 28    | 29.104     | 28.707 | 36.3             | 41.9   | 33.3 | 43.5 | .207               | .257   | 97                 | 97     | SSW                        | 1      | SSW           | 0.5    | 5      | 10       | .110  |
| 29    | 28.771     | 28.864 | 37.7             | 36.9   | 32.0 | 42.9 | .207               | .214   | 95                 | 97     | SW                         | 1      | NW            | 1      | 5      | 2        | .206  |
| 30    | 29.048     | 29.056 | 42.7             | 37.0   | 34.5 | 47.9 | .205               | .219   | 75                 | 97     | WSW                        | 1      | WSW           | 1      | 2      | 1        | .014  |
| Means | 29.557     | 29.507 | 42.9             | 43.1   | 37.8 | 50.4 | .256               | .265   | 91.4               | 93.4   | 1.1                        |        | 1.3           |        | 6.8    | 7.2      | 5.435 |



## DURHAM.

Height above Mean Sea Level, 335 feet. Long. 1° 35' W. Lat. 54° 46' N.  
DECEMBER 1877.

| Day.  | Barometer. |         | Air Temperature. |       |      |      | Tension of Vapour. |       | Relative Humidity. |       | Wind, Direction and Force. |         | Cloud Amount. |       | Rain. | Remarks.                   |
|-------|------------|---------|------------------|-------|------|------|--------------------|-------|--------------------|-------|----------------------------|---------|---------------|-------|-------|----------------------------|
|       | 10 a.m.    | 10 p.m. | 10 a.            | 10 p. | Min. | Max. | 10 a.              | 10 p. | 10 a.              | 10 p. | 10 a.m.                    | 10 p.m. | 10 a.         | 10 p. |       |                            |
| 1     | ins.       | ins.    | 39.9             | 40.0  | 35.6 | 42.3 | in.                | in.   | 86                 | 94    | WNW 0.8                    | NE 0.8  | 5             | 5     | ins.  |                            |
| 2     | 30.141     | 30.131  | 44.1             | 39.2  | 37.1 | 47.3 | 262                | 228   | 90                 | 95    | ENE 0.8                    | NE 0.8  | 0             | 10    | 0.009 |                            |
| 3     | 322        | 324     | 44.3             | 39.4  | 38.4 | 45.3 | 286                | 230   | 99                 | 95    | ENE 0.7                    | E 0.3   | 10            | 2     | 0.02  |                            |
| 4     | 30.081     | 30.003  | 40.0             | 39.4  | 38.2 | 41.2 | 243                | 233   | 98                 | 97    | Calm 0.0                   | NW 0.1  | 10            | 10    | —     |                            |
| 5     | 29.999     | 29.761  | 39.1             | 40.9  | 36.1 | 42.1 | 231                | 245   | 97                 | 96    | Calm 0.0                   | SE 1.4  | 10            | 10    | 0.500 |                            |
| 6     | 313        | 282     | 42.1             | 43.5  | 38.9 | 49.0 | 251                | 206   | 93                 | 74    | SSE 4.6                    | SW 5.0  | 10            | 0     | 0.192 | in squalls, a. and p.      |
| 7     | 706        | 29.777  | 41.1             | 33.8  | 33.0 | 44.9 | 194                | 166   | 76                 | 85    | SW 1.4                     | SW 0.8  | 0             | 0     | —     |                            |
| 8     | 29.999     | 30.070  | 41.5             | 45.6  | 32.2 | 46.2 | 230                | 268   | 89                 | 87    | SSW 1.1                    | WSW 0.9 | 10            | 10    | 0.028 |                            |
| 9     | 30.022     | 29.899  | 42.7             | 41.3  | 38.2 | 46.3 | 232                | 239   | 84                 | 92    | SSW 2.0                    | S 3.5   | 10            | 10    | 0.049 | in squalls, p.             |
| 10    | 29.922     | 29.929  | 38.3             | 35.8  | 35.3 | 41.5 | 219                | 183   | 95                 | 87    | SSW 3.0                    | S 2.4   | 10            | 9     | —     | in squalls, a. and p.      |
| 11    | 971        | 560     | 33.0             | 41.4  | 31.2 | 41.6 | 183                | 244   | 98                 | 94    | SSW 0.8                    | S 5.4   | 1             | 7     | 0.083 | in squalls, a. and p.      |
| 12    | 282        | 710     | 43.4             | 35.1  | 35.1 | 51.9 | 213                | 173   | 76                 | 84    | WSW 5.9                    | SW 0.9  | 0             | 3     | 0.043 | in squalls, a. and p.      |
| 13    | 29.663     | 29.794  | 37.0             | 35.3  | 33.4 | 39.5 | 180                | 180   | 82                 | 87    | S 1.8                      | WNW 1.2 | 6             | 5     | —     |                            |
| 14    | 30.141     | 30.283  | 37.9             | 39.1  | 32.6 | 41.0 | 172                | 204   | 75                 | 85    | WNW 1.1                    | W 1.8   | 0             | 0     | —     |                            |
| 15    | 323        | 125     | 38.2             | 44.3  | 35.3 | 44.8 | 199                | 243   | 88                 | 83    | S 0.8                      | W 2.4   | 6             | 10    | 0.085 |                            |
| 16    | 096        | 272     | 48.8             | 46.4  | 43.8 | 50.3 | 297                | 282   | 86                 | 90    | W 1.8                      | WNW 1.1 | 10            | 5     | —     |                            |
| 17    | 212        | 325     | 44.9             | 42.3  | 39.2 | 47.9 | 238                | 232   | 80                 | 87    | SW 0.8                     | WNW 0.9 | 5             | 0     | —     |                            |
| 18    | 495        | 498     | 41.4             | 40.3  | 34.2 | 45.1 | 210                | 208   | 81                 | 84    | NW 1.0                     | SW 0.4  | 5             | 10    | —     |                            |
| 19    | 502        | 624     | 42.1             | 39.5  | 38.3 | 47.7 | 244                | 214   | 91                 | 89    | SW 1.4                     | WNW 0.5 | 9             | 5     | —     |                            |
| 20    | 592        | 423     | 33.9             | 44.9  | 30.3 | 44.9 | 177                | 245   | 90                 | 83    | S 0.8                      | SW 3.7  | 0             | 10    | 0.029 | in squalls, p.             |
| 21    | 30.407     | 30.241  | 45.0             | 46.2  | 44.4 | 50.4 | 280                | 285   | 94                 | 92    | SSW 0.7                    | SW 0.8  | 7             | 10    | —     | Squally, a.                |
| 22    | 29.936     | 29.636  | 48.8             | 50.0  | 44.4 | 51.1 | 264                | 293   | 76                 | 82    | SW 5.0                     | SW 2.4  | 10            | 7     | —     | in squalls, a. and p.      |
| 23    | 951        | 30.012  | 37.9             | 36.3  | 33.6 | 51.1 | 172                | 185   | 75                 | 86    | WNW 2.4                    | SSW 1.8 | 0             | 10    | 0.088 | in squalls, a.             |
| 24    | 351        | 29.646  | 41.0             | 27.9  | 27.9 | 42.1 | 190                | 107   | 74                 | 71    | W 4.0                      | NW 1.8  | 0             | 0     | —     | in squalls, a. and p. * p. |
| 25    | 659        | 394     | 29.8             | 28.1  | 25.0 | 33.0 | 144                | 144   | 86                 | 94    | WNW 1.4                    | SSW 1.4 | 0             | 10    | 0.040 | * p.                       |
| 26    | 091        | 240     | 34.2             | 29.3  | 27.4 | 36.1 | 180                | 086   | 90                 | 53    | WNW 3.4                    | WNW 4.2 | 7             | 0     | —     | in squalls, p.             |
| 27    | 423        | 655     | 31.4             | 34.2  | 27.8 | 35.2 | 160                | 158   | 91                 | 80    | WNW 3.0                    | NW 1.4  | 0             | 0     | —     |                            |
| 28    | 930        | 711     | 28.9             | 32.1  | 26.5 | 35.4 | 130                | 164   | 83                 | 90    | Calm 0.0                   | SSE 3.1 | 8             | 10    | 0.257 | ga. * 9 p.                 |
| 29    | 374        | 521     | 36.4             | 44.0  | 32.1 | 47.9 | 212                | 263   | 98                 | 91    | S 3.5                      | SSW 2.0 | 8             | 9     | —     | ga.                        |
| 30    | 546        | 29.476  | 44.2             | 34.6  | 33.3 | 47.4 | 265                | 191   | 92                 | 95    | E 0.7                      | NNW 1.4 | 10            | 10    | 0.742 |                            |
| 31    | 29.986     | 30.224  | 36.7             | 37.2  | 34.1 | 41.7 | 173                | 202   | 79                 | 91    | WNW 3.0                    | SSW 1.8 | 0             | 0     | —     |                            |
| Means | 29.891     | 29.913  | 39.6             | 38.9  | 34.6 | 44.3 | 214                | 211   | 86.8               | 86.9  | 1.9                        | 1.8     | 5.4           | 6.0   | 2.237 |                            |

## HAWES.

Height above Mean Sea Level, 800 feet. Long. 2° 11' W. Lat. 54° 18' N.

DECEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain. | Remarks.                                             |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|-------|------------------------------------------------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. |       |                                                      |
| 1     | 29.189     | 29.621 | 35.8             | 39.0   | 34.7 | 40.3 | 194                | 218    | 93                 | 92     | Calm 0                     | W 1    | 8             | 9      | 0.010 | [on hills.]                                          |
| 2     | 30.108     | 30.342 | 42.3             | 37.0   | 36.2 | 43.1 | 244                | 200    | 91                 | 91     | ESE 2                      | Calm 0 | 10            | 10     | —     | ga. * on hills. during day. *                        |
| 3     | 332        | 250    | 41.4             | 40.8   | 37.0 | 43.8 | 261                | 241    | 100                | 96     | ENE 1                      | E 1    | 10            | 10     | 0.020 | ga. and during day. * on hills.                      |
| 4     | 118        | 30.044 | 37.9             | 39.5   | 36.5 | 41.8 | 224                | 238    | 98                 | 98     | Calm 0                     | Calm 0 | 10            | 10     | 0.010 | ga. and p. * on hills.                               |
| 5     | 30.033     | 29.806 | 37.5             | 39.9   | 36.5 | 40.2 | 218                | 231    | 98                 | 95     | Calm 0                     | ENE 1  | 10            | 10     | 0.200 | ga. and before. * on hills. and before. * on hills.  |
| 6     | 29.352     | 29.387 | 40.2             | 45.7   | 35.9 | 48.2 | 238                | 268    | 96                 | 88     | SSE 3                      | WSW 4  | 10            | 2      | 0.900 | Rough blowy day. * on hills.                         |
| 7     | 29.759     | 29.826 | 39.0             | 38.0   | 36.3 | 45.7 | 212                | 190    | 90                 | 83     | WSW 2                      | WSW 3  | 8             | 3      | 0.080 | during day. * on hills.                              |
| 8     | 30.020     | 30.117 | 41.0             | 43.0   | 35.1 | 44.1 | 238                | 257    | 93                 | 93     | WSW 2                      | WSW 3  | 10            | 10     | 0.040 | * on hills. Gusty at 9p.                             |
| 9     | 30.119     | 29.986 | 38.9             | 42.0   | 38.2 | 43.0 | 214                | 225    | 91                 | 85     | WSW 1                      | Calm 0 | 10            | 9      | —     | all day. * on hills.                                 |
| 10    | 29.949     | 29.777 | 40.2             | 36.2   | 36.0 | 42.9 | 210                | 189    | 85                 | 89     | Calm 0                     | Calm 0 | 10            | 8      | —     | all day. * on hills.                                 |
| 11    | 30.016     | 29.648 | 39.5             | 40.6   | 34.1 | 43.0 | 208                | 222    | 86                 | 88     | WSW 2                      | SW 5   | 10            | 10     | 0.750 | a. Rough at 9p. * on hills.                          |
| 12    | 29.429     | 29.755 | 40.2             | 36.5   | 34.7 | 49.0 | 224                | 183    | 90                 | 85     | W 4                        | W 3    | 10            | 5      | 0.390 | n. and a. * during day. * on hills.                  |
| 13    | 29.703     | 29.835 | 36.0             | 36.2   | 32.8 | 37.0 | 174                | 184    | 82                 | 87     | WSW 3                      | W 3    | 9             | 3      | 0.160 | * n. and a. Gusty.                                   |
| 14    | 30.105     | 30.358 | 31.9             | 35.0   | 30.9 | 39.0 | 159                | 184    | 88                 | 90     | Calm 0                     | W 1    | 0             | 8      | —     | ga. * on hills.                                      |
| 15    | 367        | 184    | 39.0             | 43.1   | 35.0 | 44.1 | 210                | 245    | 89                 | 88     | W 2                        | WNW 4  | 10            | 2      | 0.270 | * on hills.                                          |
| 16    | 172        | 338    | 45.0             | 46.5   | 42.0 | 47.2 | 275                | 297    | 92                 | 95     | W 4                        | W 2    | 10            | 10     | 0.050 | Blow, n. and a. * on hills.                          |
| 17    | 287        | 323    | 43.0             | 42.9   | 42.0 | 47.1 | 238                | 222    | 86                 | 81     | W 4                        | W 3    | 10            | 0      | 0.030 | ( ) in day. * on hills.                              |
| 18    | 563        | 552    | 38.3             | 36.9   | 35.8 | 44.3 | 205                | 204    | 89                 | 93     | SW 1                       | Calm 0 | 10            | 10     | 0.010 | ga. in valley, 9p. T 0.30p. (sharp pen). Earthquake. |
| 19    | 572        | 672    | 41.9             | 37.8   | 36.0 | 43.2 | 261                | 194    | 99                 | 86     | WNW 1                      | WSW 1  | 10            | 6      | —     | ga. during day. U p. D 9p.                           |
| 20    | 672        | 493    | 29.6             | 42.2   | 26.8 | 43.4 | 126                | 235    | 78                 | 88     | Calm 0                     | W 2    | 8             | 10     | 0.020 | ga.                                                  |
| 21    | 459        | 30.347 | 45.3             | 45.8   | 41.7 | 47.0 | 296                | 289    | 98                 | 94     | W 1                        | WSW 3  | 10            | 10     | 0.070 | ga. and during day. * on hills. Gusty.               |
| 22    | 30.120     | 29.712 | 47.0             | 46.7   | 44.6 | 47.0 | 305                | 306    | 95                 | 96     | WSW 3                      | WSW 6  | 10            | 10     | 0.280 | during day. Gusty.                                   |
| 23    | 29.991     | 30.046 | 36.0             | 36.2   | 35.0 | 47.2 | 149                | 192    | 70                 | 90     | WNW 3                      | WSW 2  | 0             | 10     | 0.490 | Gusty.                                               |
| 24    | 483        | 29.734 | 37.3             | 29.9   | 29.5 | 40.1 | 188                | 101    | 85                 | 61     | W 4                        | WNW 3  | 10            | 0      | 0.060 | * on hills. n. and a. * during evening and 9p.       |
| 25    | 742        | 469    | 25.2             | 27.9   | 25.0 | 31.2 | 093                | 137    | 69                 | 90     | Calm 0                     | E 1    | 10            | 10     | 0.170 | * n. and a. 3 in. deep. * during day.                |
| 26    | 198        | 349    | 30.2             | 29.5   | 27.5 | 33.0 | 149                | 139    | 89                 | 85     | W 2                        | W 2    | 9             | 0      | —     | * on ground.                                         |
| 27    | 488        | 601    | 29.0             | 34.0   | 26.0 | 34.0 | 082                | 148    | 51                 | 75     | W 2                        | W 3    | 0             | 10     | —     | * during day.                                        |
| 28    | 984        | 768    | 26.3             | 33.2   | 25.8 | 35.0 | 112                | 154    | 81                 | 82     | Calm 0                     | Calm 0 | 10            | 10     | 0.450 | up valley, ga. * during day. * evening.              |
| 29    | 397        | 540    | 44.9             | 44.3   | 32.0 | 46.5 | 284                | 257    | 95                 | 88     | WSW 5                      | SW 5   | 10            | 10     | 0.270 | Gusty all day. * on ground.                          |
| 30    | 29.570     | 29.506 | 45.0             | 34.9   | 34.9 | 46.0 | 275                | 199    | 92                 | 98     | WSW 4                      | N 3    | 10            | 10     | 1.000 | * all day. * on hills.                               |
| 31    | 30.054     | 30.293 | 35.3             | 35.4   | 33.7 | 41.2 | 166                | 193    | 80                 | 93     | WNW 1                      | Calm 0 | 0             | 10     | —     | ga. * on hills.                                      |
| Means | 29.950     | 29.964 | 38.1             | 38.6   | 34.4 | 42.5 | 207                | 211    | 87.7               | 88.5   | 1.8                        | 2.1    | 8.5           | 7.6    | 5.730 |                                                      |

Note by Observer:—"In December I have been obliged sometimes to take the Evening Observations earlier than 9p."

## WAKEFIELD.

Height above Mean Sea Level, 96 feet. Long. 1° 30' W. Lat. 53° 41' N.  
DECEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks. |      |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------|------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |          |      |
|       | ins.       | ins.   | 40.1             | 41.3   | 36.6 | 44.5 | in.                | in.    | %                  | %      |                            |        |               |        | ins.   |          |      |
| 1     | 29.197     | 29.641 | 40.1             | 41.3   | 36.6 | 44.5 | .238               | .232   | 90                 | 90     | Calm                       | 0      | S             | 1      | 7      | 10       | .010 |
| 2     | 30.111     | 30.293 | 42.8             | 41.9   | 37.8 | 47.9 | .248               | .225   | 94                 | 86     | NNW                        | 1      | Calm          | 0      | 6      | 10       | .050 |
| 3     | 314        | .232   | 44.2             | 41.7   | 40.4 | 44.9 | .281               | .258   | 97                 | 97     | Calm                       | 0      | Calm          | 0      | 10     | 10       | .050 |
| 4     | 105        | 30.015 | 41.3             | 42.2   | 41.0 | 43.8 | .254               | .260   | 98                 | 96     | Calm                       | 0      | N             | 1      | 10     | 10       | .260 |
| 5     | 30.027     | 29.842 | 39.2             | 41.9   | 38.2 | 43.9 | .236               | .253   | 98                 | 96     | W                          | 1      | SW            | 1      | 8      | 10       | .320 |
| 6     | 29.385     | .409   | 43.2             | 47.2   | 40.1 | 52.1 | .266               | .225   | 95                 | 70     | SSE                        | 3      | SW            | 4      | 10     | 3        | .030 |
| 7     | 29.801     | 29.847 | 41.1             | 46.0   | 36.0 | 47.9 | .220               | .185   | 85                 | 86     | WSW                        | 2      | W             | 1      | 7      | 0        | —    |
| 8     | 30.065     | 30.155 | 41.9             | 46.0   | 35.8 | 47.1 | .231               | .260   | 87                 | 85     | WSW                        | 1      | Calm          | 0      | 9      | 10       | —    |
| 9     | 30.079     | 30.004 | 40.3             | 44.0   | 32.0 | 47.1 | .224               | .243   | 90                 | 84     | Calm                       | 0      | SW            | 2      | 8      | 6        | —    |
| 10    | 29.965     | 29.995 | 39.7             | 37.1   | 37.0 | 45.9 | .222               | .182   | 91                 | 82     | Calm                       | 0      | Calm          | 0      | 10     | 3        | .040 |
| 11    | 30.032     | .733   | 39.1             | 44.8   | 35.0 | 45.1 | .227               | .248   | 95                 | 83     | Calm                       | 0      | WSW           | 1      | 4      | 10       | .050 |
| 12    | 29.516     | .813   | 48.4             | 38.9   | 37.0 | 53.0 | .247               | .200   | 73                 | 85     | SW                         | 4      | W             | 1      | 8      | 4        | .100 |
| 13    | 29.735     | 29.896 | 39.8             | 39.2   | 34.1 | 42.4 | .187               | .190   | 77                 | 83     | SW                         | 2      | W             | 2      | 5      | 3        | .120 |
| 14    | 30.175     | 30.347 | 36.9             | 38.3   | 35.4 | 42.5 | .182               | .214   | 83                 | 93     | W                          | 1      | W             | 1      | 0      | 0        | —    |
| 15    | .397       | .277   | 38.9             | 47.2   | 37.6 | 47.9 | .200               | .251   | 85                 | 78     | SW                         | 1      | NW            | 1      | 6      | 8        | —    |
| 16    | .210       | .304   | 48.2             | 48.2   | 45.1 | 49.9 | .284               | .284   | 85                 | 85     | NNW                        | 2      | NW            | 2      | 10     | 6        | —    |
| 17    | .299       | .306   | 46.3             | 47.3   | 44.4 | 48.8 | .244               | .254   | 78                 | 78     | SW                         | 2      | W             | 3      | 8      | 0        | —    |
| 18    | .600       | .546   | 40.0             | 37.1   | 37.0 | 47.3 | .207               | .208   | 84                 | 94     | WNW                        | 1      | NW            | 1      | 0      | 10       | .020 |
| 19    | .566       | .644   | 40.2             | 39.1   | 36.0 | 46.9 | .238               | .217   | 96                 | 91     | Calm                       | 0      | Calm          | 0      | 10     | 0        | —    |
| 20    | .670       | .525   | 28.0             | 33.9   | 30.1 | 41.3 | .153               | .177   | 100                | 90     | Calm                       | 0      | Calm          | 0      | 10     | 8        | .070 |
| 21    | .462       | 30.372 | 46.0             | 46.2   | 33.9 | 48.9 | .287               | .285   | 93                 | 92     | W                          | 1      | Calm          | 0      | 10     | 9        | —    |
| 22    | .198       | 29.774 | 38.2             | 50.2   | 42.9 | 52.6 | .309               | .312   | 86                 | 86     | SSW                        | 4      | SW            | 3      | 10     | 8        | —    |
| 23    | 30.021     | 30.086 | 39.9             | 40.1   | 38.0 | 51.1 | .175               | .206   | 75                 | 83     | W                          | 2      | W             | 1      | 0      | 8        | .060 |
| 24    | 29.514     | 29.734 | 43.5             | 33.1   | 33.0 | 45.9 | .241               | .157   | 85                 | 84     | W                          | 4      | NNW           | 1      | 7      | 0        | —    |
| 25    | .725       | .455   | 32.9             | 31.0   | 30.2 | 35.8 | .185               | .149   | 99                 | 85     | W                          | 1      | Calm          | 0      | 8      | 10       | .140 |
| 26    | .197       | .347   | 33.5             | 30.4   | 26.4 | 35.0 | .172               | .158   | 91                 | 94     | W                          | 1      | Calm          | 0      | 5      | 0        | .030 |
| 27    | .499       | .670   | 33.1             | 36.3   | 28.7 | 36.8 | .186               | .171   | 99                 | 80     | W                          | 1      | W             | 3      | 4      | 2        | —    |
| 28    | .070       | .804   | 33.1             | 34.1   | 32.0 | 37.8 | .149               | .174   | 79                 | 88     | WNW                        | 1      | Calm          | 0      | 6      | 10       | .210 |
| 29    | .451       | .594   | 45.2             | 46.4   | 34.0 | 53.4 | .293               | .256   | 97                 | 82     | Calm                       | 0      | SW            | 1      | 5      | 10       | —    |
| 30    | 29.586     | 29.499 | 39.1             | 38.1   | 36.2 | 51.7 | .281               | .218   | 91                 | 95     | S                          | 1      | WNW           | 2      | 8      | 10       | .810 |
| 31    | 30.012     | 30.266 | 39.2             | 39.9   | 37.5 | 48.9 | .182               | .218   | 76                 | 89     | W                          | 2      | WNW           | 1      | 0      | 2        | —    |
| Means | 20.064     | 20.070 | 40.7             | 40.6   | 36.1 | 46.1 | .228               | .222   | 89.0               | 86.8   | 1.3                        | 1.1    | 6.7           | 6.1    | 2.379  |          |      |



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## BUXTON.

Height above Mean Sea Level, 987 feet. Long. 1° 54' W. Lat. 53° 14' N.

DECEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain. | Remarks. |              |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|-------|----------|--------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. |       |          |              |
| 1     | ins.       | ins.   | 38°              | 38°    | 38°  | —    | in.                | in.    | 92                 | 92     | W                          | 1      | SW            | 1      | 10    | 5        | ins.         |
| 2     | 30°225     | 30°628 | 38°              | 38°    | 38°  | —    | 217                | 217    | 92                 | 92     | W                          | 1      | SW            | 1      | 10    | 5        | 0.010        |
| 3     | 30°080     | 30°318 | 41°              | 37°    | 34°  | —    | 236                | 182    | 92                 | 82     | NE                         | 2      | NW            | 1      | 10    | 2        | 0.020        |
| 4     | 29°8       | 29°265 | 40°              | 39°    | 37°  | —    | 234                | 221    | 92                 | 91     | E                          | 1      | E             | 1      | 10    | 8        | 0.030        |
| 5     | 29°119     | 30°042 | 39°              | 38°    | 37°  | —    | 210                | 217    | 87                 | 92     | E                          | 1      | E             | 1      | 6     | 10       | —            |
| 6     | 30°038     | 29°818 | 36°              | 37°    | 36°  | —    | 191                | 210    | 90                 | 92     | Calm                       | 0      | SE            | 2      | 5     | 10       | 0.600        |
| 7     | 29°398     | 29°497 | 41°              | 40°    | 37°  | —    | 244                | 196    | 92                 | 77     | SW                         | 1      | W             | 2      | 10    | 2        | 0.340        |
| 8     | 29°848     | 29°863 | 38°              | 34°    | 32°  | —    | 207                | 171    | 90                 | 85     | W                          | 2      | W             | 2      | 4     | 5        | 0.130        |
| 9     | 30°098     | 30°211 | 38°              | 41°    | 33°  | —    | 217                | 244    | 92                 | 92     | W                          | 1      | W             | 1      | 10    | 10       | —            |
| 10    | 30°115     | 30°066 | 41°              | 38°    | 37°  | —    | 238                | 217    | 91                 | 92     | W                          | 1      | W             | 1      | 4     | 6        | —            |
| 11    | 29°980     | 30°020 | 46°              | 33°    | 32°  | —    | 295                | 166    | 93                 | 87     | S                          | 2      | W             | 1      | 10    | 4        | —            |
| 12    | 30°060     | 29°761 | 44°              | 40°    | 33°  | —    | 274                | 231    | 92                 | 91     | W                          | 3      | W             | 5      | 8     | 10       | 0.260        |
| 13    | 29°590     | 29°878 | 42°              | 34°    | 33°  | —    | 233                | 174    | 84                 | 88     | NW                         | 4      | W             | 3      | 10    | 6        | —            |
| 14    | 29°782     | 29°877 | 34°              | 33°    | 31°  | —    | 175                | 176    | 89                 | 90     | W                          | 2      | NW            | 3      | 4     | 10       | 0.220        |
| 15    | 30°227     | 30°409 | 35°              | 36°    | 30°  | —    | 182                | 201    | 89                 | 92     | NW                         | 2      | W             | 3      | 2     | 10       | 0.030        |
| 16    | 29°430     | 29°316 | 36°              | 41°    | 35°  | —    | 190                | 244    | 89                 | 92     | W                          | 2      | NW            | 3      | 10    | 10       | 0.020        |
| 17    | 29°282     | 29°368 | 41°              | 44°    | 41°  | —    | 226                | 274    | 86                 | 92     | NW                         | 3      | NW            | 5      | 10    | 10       | 0.160        |
| 18    | 29°348     | 29°394 | 41°              | 42°    | 41°  | —    | 226                | 248    | 86                 | 90     | NW                         | 2      | NW            | 4      | 8     | 8        | 0.090        |
| 19    | 29°582     | 29°557 | 39°              | 38°    | 36°  | —    | 218                | 207    | 92                 | 88     | NW                         | 2      | NW            | 1      | 5     | 10       | 0.020        |
| 20    | 29°571     | 29°689 | 38°              | 40°    | 34°  | —    | 217                | 223    | 92                 | 89     | NW                         | 1      | W             | 1      | 10    | 9        | —            |
| 21    | 29°712     | 29°544 | 38°              | 38°    | 28°  | —    | 137                | 217    | 84                 | 92     | Calm                       | 0      | W             | 1      | 10    | 10       | 0.010        |
| 22    | 29°486     | 30°423 | 38°              | 43°    | 38°  | —    | 217                | 277    | 92                 | 97     | NW                         | 3      | NNE           | 1      | 10    | 5        | 0.060        |
| 23    | 29°204     | 29°844 | 44°              | 45°    | 42°  | —    | 273                | 290    | 92                 | 95     | SW                         | 2      | NW            | 6      | 10    | 10       | 0.280        |
| 24    | 30°052     | 30°138 | 36°              | 36°    | 35°  | —    | 191                | 191    | 90                 | 90     | N                          | 3      | NW            | 3      | 3     | 8        | 0.200        |
| 25    | 29°644     | 29°769 | 38°              | 30°    | 27°  | —    | 212                | 112    | 92                 | 67     | W                          | 7      | SW            | 4      | 8     | 0        | 0.110        |
| 26    | 29°756     | 29°490 | 29°              | 30°    | 27°  | —    | 145                | 156    | 91                 | 93     | NW                         | 1      | NW            | 1      | 9     | 10       | 0.200        |
| 27    | 29°279     | 29°440 | 32°              | 29°    | 23°  | —    | 160                | 131    | 88                 | 82     | NW                         | 1      | NW            | 3      | 8     | 10       | 0.480        |
| 28    | 29°546     | 29°794 | 29°              | 32°    | 27°  | —    | 131                | 165    | 82                 | 91     | NW                         | 2      | NW            | 1      | 10    | 10       | 0.150        |
| 29    | 29°995     | 29°780 | 31°              | 32°    | 30°  | —    | 149                | 155    | 85                 | 85     | NW                         | 1      | SW            | 2      | 10    | 10       | 0.690        |
| 30    | 29°484     | 29°636 | 41°              | 41°    | 31°  | —    | 232                | 242    | 85                 | 92     | W                          | 3      | NW            | 1      | 10    | 4        | 0.050        |
| 31    | 29°650     | 29°420 | 44°              | 36°    | 35°  | —    | 252                | 201    | 87                 | 92     | W                          | 4      | W             | 3      | 10    | 10       | 0.900        |
| 31    | 30°090     | 30°318 | 36°              | 38°    | 35°  | —    | 197                | 209    | 90                 | 91     | NW                         | 3      | NW            | 2      | 4     | 2        | —            |
| Means | 29°999     | 30°017 | 38°              | 37°    | 34°  | —    | 210                | 205    | 89.3               | 89.1   | 2°                         | 2°     | 8°            | 7°     | 5°    | 0.060    | —            |
|       |            |        |                  |        |      |      |                    |        |                    |        |                            |        |               |        |       |          | * before ga. |

\* Maximum thermometer out of order.

## HILLINGTON, NORFOLK.

Height above Mean Sea Level, 88 feet. Long. 0° 33' E. Lat. 52° 48' N.

DECEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain. | Remarks. |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|-------|----------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. |       |          |
| 1     | 29°222     | 29°559 | 35°              | 35°    | 33°  | 33°  | 208                | 208    | 100                | 100    | SSW                        | 0.5    | 4             | 6      | —     |          |
| 2     | 29°088     | 30°172 | 46°              | 43°    | 34°  | 34°  | 306                | 283    | 99                 | 100    | NE                         | 1      | 10            | 10     | 0.070 |          |
| 3     | 30°207     | 30°108 | 43°              | 43°    | 42°  | 42°  | 272                | 286    | 97                 | 100    | NE                         | 2      | 10            | 10     | 0.106 |          |
| 4     | 30°026     | 29°948 | 42°              | 42°    | 41°  | 41°  | 276                | 271    | 100                | 100    | NE                         | 1      | 10            | 10     | 0.042 |          |
| 5     | 29°063     | 29°76  | 41°              | 42°    | 41°  | 41°  | 261                | 265    | 100                | 99     | NNW                        | 0.5    | 10            | 10     | 0.232 |          |
| 6     | 29°537     | 29°485 | 42°              | 43°    | 39°  | 39°  | 260                | 231    | 96                 | 82     | SE                         | 5      | 10            | 10     | 0.060 |          |
| 7     | 29°817     | 29°849 | 38°              | 37°    | 36°  | 36°  | 203                | 212    | 87                 | 95     | SW                         | 1      | 10            | 10     | 0.008 |          |
| 8     | 30°105     | 30°204 | 34°              | 41°    | 31°  | 31°  | 185                | 253    | 94                 | 95     | SW                         | 1      | 5             | 10     | —     |          |
| 9     | 30°198     | 30°081 | 38°              | 40°    | 34°  | 34°  | 218                | 240    | 96                 | 98     | SE                         | 1      | 3             | 3      | —     |          |
| 10    | 29°999     | 29°988 | 34°              | 29°    | 28°  | 28°  | 186                | 155    | 92                 | 96     | SE                         | 1      | 3             | 3      | —     |          |
| 11    | 30°036     | 29°907 | 28°              | 38°    | 27°  | 27°  | 102                | 225    | 98                 | 98     | S                          | 0.5    | 5             | 8      | —     |          |
| 12    | 29°610     | 29°856 | 48°              | 34°    | 34°  | 34°  | 323                | 178    | 96                 | 89     | SW                         | 4      | 5             | 10     | 0.090 |          |
| 13    | 29°831     | 29°829 | 35°              | 34°    | 30°  | 30°  | 198                | 183    | 97                 | 90     | W                          | 1      | 5             | 0      | 0.020 |          |
| 14    | 30°104     | 30°350 | 32°              | 31°    | 30°  | 30°  | 175                | 170    | 97                 | 97     | NW                         | 1      | 0             | 0      | —     |          |
| 15    | 29°455     | 29°280 | 30°              | 41°    | 26°  | 26°  | 169                | 240    | 100                | 95     | SW                         | 1      | 9             | 10     | 0.100 |          |
| 16    | 29°232     | 29°254 | 42°              | 45°    | 40°  | 40°  | 258                | 308    | 95                 | 100    | W                          | 3      | 10            | 10     | 0.067 |          |
| 17    | 29°340     | 29°449 | 43°              | 43°    | 42°  | 42°  | 271                | 267    | 97                 | 94     | W                          | 2      | 9             | 1      | —     |          |
| 18    | 29°475     | 29°529 | 35°              | 29°    | 28°  | 28°  | 201                | 165    | 97                 | 100    | NW                         | 1      | 3             | 10     | —     |          |
| 19    | 29°564     | 29°661 | 28°              | 36°    | 26°  | 26°  | 187                | 208    | 100                | 98     | S                          | 1      | 10            | 10     | 0.044 |          |
| 20    | 29°673     | 29°568 | 38°              | 39°    | 35°  | 35°  | 236                | 244    | 100                | 99     | SW                         | 0.5    | 1             | 9      | 0.010 |          |
| 21    | 29°489     | 29°431 | 39°              | 43°    | 38°  | 38°  | 235                | 277    | 98                 | 100    | S                          | 0.5    | 10            | 10     | 0.012 |          |
| 22    | 30°259     | 29°995 | 43°              | 47°    | 42°  | 42°  | 281                | 296    | 99                 | 92     | SW                         | 2      | 10            | 10     | 0.060 |          |
| 23    | 29°874     | 30°123 | 38°              | 34°    | 34°  | 34°  | 199                | 180    | 85                 | 89     | NW                         | 3      | 0             | 3      | 0.002 |          |
| 24    | 29°636     | 29°650 | 40°              | 33°    | 32°  | 32°  | 224                | 116    | 90                 | 61     | W                          | 5      | 10            | 0      | —     |          |
| 25    | 29°725     | 29°487 | 29°              | 30°    | 26°  | 26°  | 170                | 98     | 98                 | 98     | NW                         | 1      | 7             | 10     | 0.135 |          |
| 26    | 29°233     | 29°324 | 31°              | 30°    | 22°  | 22°  | 170                | 158    | 97                 | 93     | SW                         | 0.5    | 10            | 10     | —     |          |
| 27    | 29°492     | 29°674 | 31°              | 31°    | 28°  | 28°  | 169                | 171    | 96                 | 96     | WNW                        | 4      | 9             | 10     | —     |          |
| 28    | 29°968     | 29°895 | 31°              | 33°    | 30°  | 30°  | 168                | 183    | 95                 | 95     | NW                         | 2      | 9             | 10     | —     |          |
| 29    | 29°546     | 29°645 | 44°              | 40°    | 32°  | 32°  | 288                | 250    | 100                | 99     | SW                         | 3      | 10            | 10     | 0.530 |          |
| 30    | 29°729     | 29°403 | 43°              | 49°    | 40°  | 40°  | 273                | 338    | 98                 | 97     | SW                         | 1      | 10            | 3      | 0.010 |          |
| 31    | 29°922     | 30°252 | 38°              | 33°    | 33°  | 33°  | 182                | 184    | 78                 | 94     | NW                         | 5      | 0             | 0      | 0.304 |          |
| Means | 29°976     | 29°985 | 37°              | 38°    | 33°  | 33°  | 221                | 223    | 95.7               | 94.8   | 1°                         | 2°     | 6°            | 6°     | 1°    | 0.02     |

## UPPINGHAM.

Height above Mean Sea Level, 484 feet. Long. 0° 44' W. Lat. 52° 35' N.

DECEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |         | Cloud Amount. |        | Rain. | Remarks.                                                                                                       |                                |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|---------|---------------|--------|-------|----------------------------------------------------------------------------------------------------------------|--------------------------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m.  | 9 a.m.        | 9 p.m. |       |                                                                                                                |                                |
| 1     | ins.       | ins.   | 36°              | 38°    | 33°  | 40°  | in.                | in.    | 100                | 95     | swb.s 1                    | NW 1    | 10            | 10     | ins.  | 0.028 till 10 a. 0.082 p.                                                                                      |                                |
| 2     | 29°205     | 29°565 | 36°              | 40°    | 34°  | 46°  | 214                | 219    | 100                | 94     | NE 1                       | NWb.N 2 | 7             | 10     | 0.082 | 0.082 ga.                                                                                                      |                                |
| 3     | 29°980     | 30°217 | 40°              | 40°    | 34°  | 46°  | 255                | 230    | 100                | 94     | NE 2                       | NE 1    | 10            | 10     | 0.120 | 0.120 and 0 all day.                                                                                           |                                |
| 4     | 30°230     | 30°172 | 42°              | 42°    | 39°  | 44°  | 267                | 273    | 100                | 98     | NE 1                       | NW 1    | 10            | 10     | 0.016 | 0.016 early a. Drizzle all day.                                                                                |                                |
| 5     | 30°052     | 30°000 | 41°              | 40°    | 40°  | 43°  | 264                | 247    | 100                | 100    | Nb.E 1                     | S 1     | 9             | 10     | 0.281 | 0.281 Scotch 0.020 ga.                                                                                         |                                |
| 6     | 29°994     | 29°898 | 39°              | 39°    | 38°  | 46°  | 239                | 239    | 100                | 100    | SEb.S 5                    | Wb.S 4  | 10            | 0      | 0.020 | 0.020 ga. and before.                                                                                          |                                |
| 7     | 29°464     | 29°532 | 41°              | 44°    | 37°  | 50°  | 263                | 235    | 100                | 79     | Wb.S 3                     | Wb.N 1  | 1             | 0      | —     | —                                                                                                              |                                |
| 8     | 29°834     | 29°886 | 37°              | 36°    | 36°  | 44°  | 200                | 210    | 89                 | 99     | W 1                        | swb.s 3 | 1             | 10     | —     | —                                                                                                              |                                |
| 9     | 30°115     | 30°218 | 35°              | 41°    | 32°  | 45°  | 197                | 249    | 96                 | 95     | SW 2                       | S 4     | 9             | 5      | —     | —                                                                                                              |                                |
| 10    | 30°181     | 30°076 | 39°              | 39°    | 35°  | 46°  | 224                | 235    | 93                 | 95     | Sb.E 2                     | Calms   | 0             | 9      | 10    | —                                                                                                              |                                |
| 11    | 29°993     | 30°013 | 34°              | 36°    | 32°  | 40°  | 196                | 205    | 100                | 96     | SW 1                       | Sb.W 6  | 10            | 10     | 0.035 | 0.035 a. in squalls from S—W, p.                                                                               |                                |
| 12    | 30°056     | 29°905 | 34°              | 41°    | 31°  | 41°  | 229                | 182    | 74                 | 91     | WSW 4                      | SW 3    | 1             | 0      | —     | —                                                                                                              |                                |
| 13    | 29°628     | 29°893 | 46°              | 34°    | 34°  | 49°  | 229                | 182    | 74                 | 91     | Wb.S 4                     | WSW 1   | 1             | 1      | —     | —                                                                                                              |                                |
| 14    | 29°840     | 29°935 | 33°              | 31°    | 31°  | 40°  | 185                | 172    | 94                 | 96     | W 2                        | Wb.N 1  | 0             | 0      | —     | —                                                                                                              |                                |
| 15    | 30°170     | 30°394 | 34°              | 33°    | 31°  | 41°  | 197                | 189    | 97                 | 99     | Wb.N 1                     | SW 4    | 9             | 9      | 0.043 | 0.043 a. 0.020 a. and p., but very bright                                                                      |                                |
| 16    | 29°465     | 29°320 | 32°              | 41°    | 30°  | 42°  | 182                | 243    | 99                 | 93     | Wb.S 4                     | NW 4    | 10            | 10     | —     | —                                                                                                              |                                |
| 17    | 29°276     | 29°325 | 42°              | 47°    | 40°  | 47°  | 251                | 306    | 92                 | 95     | Wb.S 1                     | NW 4    | 10            | 10     | —     | —                                                                                                              |                                |
| 18    | 29°374     | 29°321 | 41°              | 44°    | 38°  | 47°  | 257                | 285    | 99                 | 96     | swb.w 1                    | NW 4    | 10            | 1      | —     | —                                                                                                              |                                |
| 19    | 29°528     | 29°577 | 38°              | 33°    | 33°  | 45°  | 217                | 190    | 94                 | 99     | NW 4                       | Calms   | 0             | 1      | 3     | —                                                                                                              |                                |
| 20    | 29°587     | 29°642 | 34°              | 40°    | 28°  | 41°  | 195                | 251    | 99                 | 100    | NW 2                       | Calms   | 0             | 10     | 10    | —                                                                                                              |                                |
| 21    | 29°677     | 29°594 | 39°              | 39°    | 33°  | 41°  | 239                | 230    | 98                 | 96     | Calms                      | Calms   | 0             | 10     | 10    | —                                                                                                              |                                |
| 22    | 29°494     | 29°455 | 40°              | 43°    | 38°  | 45°  | 254                | 285    | 99                 | 92     | W 1                        | SW 1    | 10            | 10     | —     | —                                                                                                              |                                |
| 23    | 29°270     | 29°260 | 43°              | 46°    | 39°  | 48°  | 284                | 285    | 99                 | 92     | SW 4                       | SW 6    | 10            | 10     | 0.031 | 0.031 a. Drizzle and 0.027 all day.                                                                            |                                |
| 24    | 30°032     | 30°170 | 36°              | 35°    | 34°  | 48°  | 189                | 197    | 87                 | 94     | NW w.2                     | SW 6    | 10            | 10     | 0.017 | 0.017 a. Drizzle and 0.027 all day.                                                                            |                                |
| 25    | 29°660     | 29°736 | 41°              | 32°    | 31°  | 43°  | 218                | 120    | 85                 | 66     | Wb.S 5                     | NW 3    | 7             | 0      | —     | —                                                                                                              |                                |
| 26    | 29°766     | 29°504 | 30°              | 31°    | 28°  | 32°  | 161                | 168    | 93                 | 95     | Wb.N 2                     | swb.s 1 | 10            | 10     | 0.033 | 0.033 a. before 9 a. and till 5 p. Hard frost, p.                                                              |                                |
| 27    | 29°304     | 29°405 | 32°              | 29°    | 25°  | 34°  | 177                | 153    | 96                 | 94     | Wb.N 2                     | Wb.N 2  | 10            | 5      | 0.167 | 0.167 a. 0.020 a. 0.020 showers all day; 4 ins. [deep at 9 p. The later falls were granular.]                  |                                |
| 28    | 29°552     | 29°733 | 28°              | 30°    | 27°  | 33°  | 122                | 133    | 80                 | 79     | WNW 1                      | NW 5    | 9             | 0      | —     | —                                                                                                              |                                |
| 29    | 29°994     | 29°876 | 29°              | 32°    | 26°  | 34°  | 116                | 179    | 71                 | 98     | Wb.N 3                     | S 3     | 10            | 10     | 0.572 | 0.572 a. Granular 0.020 a. 0.020 showers at 5 p. Hard frost, p. [turning to cold 0.020 a. Steady thaw set in.] |                                |
| 30    | 29°550     | 29°659 | 43°              | 42°    | 31°  | 51°  | 282                | 260    | 98                 | 98     | swb.s 2                    | SW 2    | 10            | 2      | —     | —                                                                                                              |                                |
| 31    | 29°717     | 29°398 | 44°              | 47°    | 31°  | 33°  | 280                | 309    | 97                 | 93     | SW 3                       | SW 2    | 10            | 10     | 0.350 | 0.350 a. 0.020 a. 0.020 which veered to NW                                                                     |                                |
| Means | 29°999     | 30°031 | 37°              | 38°    | 33°  | 43°  | 217                | 222    | 93°                | 93°    | 2°                         | 2°      | 7°            | 6°     | 1°    | 868                                                                                                            | 868 Bright day. [during night, |



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## CHURCHSTOKE.

Height above Mean Sea Level, 548 feet. Long. 3° 5' W. Lat. 52° 31' N.

DECEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |         | Cloud Amount. |        | Rain. | Remarks.          |  |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|---------|---------------|--------|-------|-------------------|--|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m.  | 9 a.m.        | 9 p.m. |       |                   |  |
| 1     | ins.       | ins.   | 38°              | 41°    | 36°  | 44°  | in.                | in.    | 92                 | 89     | WNW 0.5                    | WNW 1   | 3             | 8      | ins.  |                   |  |
| 2     | 29°236     | 29°664 | 38°              | 41°    | 36°  | 44°  | 211                | 231    | 92                 | 89     | WNW 0.5                    | WNW 1   | 3             | 8      | ins.  |                   |  |
| 3     | 30°057     | 30°324 | 39°              | 39°    | 36°  | 43°  | 233                | 197    | 97                 | 83     | Calm 0                     | NNW 1   | 10            | 6      | —     | ga.               |  |
| 4     | 30°229     | 30°8   | 38°              | 41°    | 34°  | 42°  | 240                | 247    | 99                 | 94     | E 1                        | Calm 0  | 10            | 8      | 0.010 | before ga.        |  |
| 5     | 30°097     | 29°992 | 39°              | 38°    | 39°  | 42°  | 245                | 235    | 100                | 98     | Calm 0                     | WSW 1   | 10            | 6      | —     |                   |  |
| 6     | 30°033     | 30°055 | 37°              | 40°    | 36°  | 42°  | 216                | 226    | 97                 | 91     | E 1                        | SE 2    | 9             | 8      | 0.370 |                   |  |
| 7     | 29°333     | 29°599 | 48°              | 43°    | 39°  | 51°  | 324                | 224    | 96                 | 77     | SE 4                       | WSW 4   | 10            | 2      | 0.040 |                   |  |
| 8     | 29°883     | 29°955 | 37°              | 34°    | 32°  | 45°  | 199                | 176    | 88                 | 89     | S 3                        | Calm 0  | 5             | 2      | 0.015 | Bitter cold wind. |  |
| 9     | 30°170     | 30°233 | 47°              | 42°    | 31°  | 48°  | 203                | 252    | 90                 | 94     | NW 1                       | NW 1    | 6             | 3      | 0.015 |                   |  |
| 10    | 30°142     | 29°998 | 41°              | 43°    | 36°  | 46°  | 225                | 254    | 85                 | 89     | NE 4                       | SE 4    | 7             | 10     | 0.055 |                   |  |
| 11    | 29°938     | 30°009 | 41°              | 36°    | 35°  | 43°  | 230                | 199    | 89                 | 91     | E 2                        | S 2     | 8             | 10     | —     | Fog-bow.          |  |
| 12    | 30°116     | 29°751 | 32°              | 47°    | 31°  | 47°  | 166                | 208    | 89                 | 93     | S 1                        | SW 5    | 2             | 10     | 0.184 |                   |  |
| 13    | 29°687     | 29°936 | 43°              | 36°    | 34°  | 51°  | 231                | 189    | 82                 | 89     | W 3                        | SW 1    | 5             | 2      | 0.040 | Wind rising, sp.  |  |
| 14    | 29°831     | 29°978 | 37°              | 37°    | 33°  | 41°  | 185                | 176    | 82                 | 79     | W 1                        | SW 2    | 1             | 2      | 0.024 | n.                |  |
| 15    | 30°247     | 30°445 | 34°              | 33°    | 32°  | 44°  | 183                | 169    | 90                 | 86     | Calm 0                     | SW 1    | 2             | 3      | —     | Pleasant day.     |  |
| 16    | 30°417     | 30°332 | 37°              | 36°    | 30°  | 47°  | 193                | 274    | 85                 | 93     | WSW 4                      | W 1     | 6             | 4      | 0.010 |                   |  |
| 17    | 30°375     | 30°426 | 45°              | 46°    | 39°  | 47°  | 273                | 286    | 91                 | 92     | W 2                        | WNW 1   | 8             | 8      | —     |                   |  |
| 18    | 30°390     | 30°448 | 43°              | 43°    | 38°  | 47°  | 242                | 247    | 85                 | 86     | W 2                        | W 1     | 7             | 4      | —     |                   |  |
| 19    | 30°586     | 30°614 | 36°              | 32°    | 30°  | 44°  | 201                | 176    | 93                 | 97     | W 5                        | Calm 0  | 1             | 2      | 0.003 |                   |  |
| 20    | 30°583     | 30°706 | 39°              | 41°    | 30°  | 45°  | 237                | 252    | 99                 | 98     | SE 0.5                     | NE 1    | 10            | 8      | —     |                   |  |
| 21    | 30°086     | 30°593 | 37°              | 44°    | 33°  | 45°  | 199                | 258    | 90                 | 88     | Calm 0                     | SW 1    | 7             | 8      | 0.049 |                   |  |
| 22    | 30°490     | 30°467 | 43°              | 42°    | 41°  | 50°  | 284                | 266    | 100                | 97     | Calm 0                     | SSE 1   | 10            | 6      | —     |                   |  |
| 23    | 30°227     | 29°946 | 48°              | 47°    | 41°  | 50°  | 323                | 308    | 94                 | 93     | WSW 0.5                    | WSW 2   | 9             | 8      | —     |                   |  |
| 24    | 30°112     | 30°213 | 35°              | 39°    | 35°  | 49°  | 173                | 204    | 82                 | 84     | WNW 0.5                    | SSW 1   | 1             | 8      | 0.030 | Sunny and bright. |  |
| 25    | 29°723     | 29°843 | 41°              | 34°    | 33°  | 43°  | 236                | 152    | 91                 | 76     | WNW 4                      | Calm 0  | 9             | 2      | 0.017 | * showers.        |  |
| 26    | 30°794     | 30°502 | 34°              | 30°    | 29°  | 39°  | 154                | 140    | 77                 | 82     | WSW 1                      | WNW 0.5 | 1             | 1      | 0.090 |                   |  |
| 27    | 30°352     | 30°493 | 34°              | 31°    | 27°  | 36°  | 177                | 107    | 90                 | 95     | W 1                        | NW 1    | 6             | 2      | 0.117 |                   |  |
| 28    | 29°600     | 30°879 | 32°              | 33°    | 29°  | 38°  | 164                | 161    | 89                 | 84     | NW 1                       | W 3     | 9             | 2      | 0.008 |                   |  |
| 29    | 30°026     | 30°753 | 37°              | 34°    | 26°  | 37°  | 218                | 194    | 97                 | 99     | SW 1                       | SSW 1   | 1             | 10     | 0.467 | * changing to sp. |  |
| 30    | 29°521     | 30°652 | 49°              | 45°    | 33°  | 51°  | 322                | 279    | 93                 | 91     | WSW 1                      | WNW 1   | 8             | 8      | 0.060 | * all gone.       |  |
| 31    | 29°667     | 29°543 | 47°              | 39°    | 38°  | 50°  | 283                | 211    | 88                 | 88     | WSW 1                      | WNW 2   | 5             | 10     | 0.446 |                   |  |
| 31    | 30°121     | 30°377 | 37°              | 37°    | 35°  | 44°  | 209                | 184    | 92                 | 92     | NW 1                       | Calm 0  | 0             | 8      | 0.005 | Clear and fine.   |  |
| Means | 30°024     | 30°055 | 40°              | 39°    | 34°  | 45°  | 227                | 221    | 90°                | 89°    | 1°                         | 1°      | 6°            | 5°     | 2°    | 103               |  |

## HEREFORD.

Height above Mean Sea Level, 274 feet. Long. 2° 45' W. Lat. 52° 5' N.

DECEMBER 1877.

|       |        |        |       |      |      |      |     |     |      |      |        |        |     |     |       |                                |
|-------|--------|--------|-------|------|------|------|-----|-----|------|------|--------|--------|-----|-----|-------|--------------------------------|
| 1     | 29°244 | 29°620 | 37°8  | 42°2 | 33°3 | 46°1 | 217 | 225 | 96   | 85   | Calm 0 | W 1    | 4   | 7   | 0°05  | D <sup>2</sup> ga.             |
| 2     | 30°016 | 30°250 | 40°13 | 41°3 | 38°0 | 45°5 | 225 | 211 | 90   | 81   | NE 1   | Calm 0 | 10  | 2   | —     |                                |
| 3     | 259    | 177    | 42°0  | 42°4 | 40°4 | 45°4 | 254 | 249 | 95   | 92   | NNW 1  | Calm 0 | 10  | 10  | 0°40  |                                |
| 4     | 061    | 30°044 | 41°7  | 38°9 | 38°4 | 44°2 | 255 | 232 | 96   | 99   | Calm 0 | Calm 0 | 10  | 10  | 0°10  | ga.                            |
| 5     | 30°005 | 29°805 | 38°7  | 40°7 | 37°0 | 45°3 | 235 | 214 | 100  | 85   | Calm 0 | SE 2   | 10  | 10  | 0°80  | ga.                            |
| 6     | 29°361 | 29°617 | 47°7  | 44°9 | 40°1 | 53°5 | 329 | 227 | 99   | 77   | SW 1   | WNW 2  | 7   | 0   | 0°43  |                                |
| 7     | 29°872 | 29°928 | 42°1  | 35°7 | 35°1 | 46°1 | 214 | 188 | 81   | 90   | WSW 1  | Calm 0 | 10  | 0   | 0°05  | before ga.                     |
| 8     | 30°175 | 30°220 | 41°8  | 40°7 | 33°5 | 48°1 | 231 | 227 | 88   | 89   | W 1    | Calm 0 | 9   | 0   | —     | D <sup>2</sup> gp.             |
| 9     | 30°150 | 005    | 41°7  | 43°4 | 34°8 | 47°6 | 242 | 242 | 92   | 86   | Calm 0 | Calm 0 | 9   | 10  | 0°04  | D <sup>2</sup> ga.             |
| 10    | 29°924 | 30°013 | 39°9  | 36°0 | 36°0 | 44°3 | 224 | 192 | 91   | 91   | SE 1   | Calm 0 | 10  | 0   | —     | ga.                            |
| 11    | 30°088 | 29°824 | 33°5  | 44°7 | 31°0 | 47°2 | 187 | 279 | 98   | 94   | Calm 0 | S 3    | 5   | 10  | 0°80  | ga.                            |
| 12    | 29°689 | 032    | 46°3  | 36°0 | 35°1 | 52°0 | 223 | 186 | 71   | 88   | W 3    | W 1    | 3   | 0   | 0°80  | in valley, ga.                 |
| 13    | 29°855 | 29°990 | 38°5  | 33°2 | 32°6 | 45°4 | 186 | 176 | 81   | 94   | WSW 2  | Calm 0 | 2   | 0   | 0°47  |                                |
| 14    | 30°221 | 30°438 | 39°5  | 33°4 | 32°1 | 45°2 | 194 | 181 | 80   | 95   | WNW 2  | Calm 0 | 0   | 0   | —     | ga. and gp.                    |
| 15    | 484    | 338    | 32°9  | 45°1 | 28°9 | 45°8 | 170 | 272 | 91   | 90   | Calm 0 | Calm 0 | 5   | 9   | 0°01  | ga.                            |
| 16    | 389    | 402    | 45°5  | 48°0 | 41°7 | 48°8 | 257 | 279 | 85   | 84   | W 1    | WNW 2  | 10  | 10  | —     | ga.                            |
| 17    | 378    | 400    | 43°2  | 46°3 | 40°4 | 49°0 | 234 | 259 | 84   | 83   | W 1    | Calm 0 | 3   | 3   | —     | ga.                            |
| 18    | 583    | 578    | 37°6  | 33°7 | 33°3 | 47°2 | 197 | 189 | 88   | 98   | Calm 0 | Calm 0 | 6   | 1   | 0°04  | ga.                            |
| 19    | 585    | 661    | 35°3  | 41°1 | 28°5 | 42°9 | 204 | 256 | 99   | 99   | Calm 0 | Calm 0 | 10  | 9   | 0°08  | ga. and gp.                    |
| 20    | 076    | 572    | 38°0  | 42°3 | 37°3 | 44°7 | 221 | 243 | 96   | 91   | Calm 0 | Calm 0 | 9   | 10  | 0°01  | D <sup>2</sup> ga.             |
| 21    | 499    | 30°455 | 42°7  | 41°0 | 40°1 | 50°4 | 256 | 255 | 93   | 99   | Calm 0 | Calm 0 | 10  | 10  | —     | in valley, ga.                 |
| 22    | 268    | 29°952 | 45°2  | 30°0 | 30°8 | 51°4 | 302 | 292 | 100  | 81   | Calm 0 | W 3    | 10  | 10  | —     | D <sup>2</sup> ga.             |
| 23    | 30°114 | 30°209 | 37°0  | 35°5 | 35°1 | 51°6 | 174 | 186 | 79   | 90   | Calm 0 | Calm 0 | 0   | 6   | —     | D <sup>2</sup> ga.             |
| 24    | 29°768 | 29°822 | 43°2  | 35°9 | 30°3 | 45°9 | 234 | 166 | 84   | 79   | W 2    | NW 2   | 10  | 0   | 0°20  | ga.                            |
| 25    | 811    | 479    | 31°1  | 30°9 | 27°2 | 40°0 | 149 | 148 | 86   | 85   | WNW 1  | Calm 0 | 2   | 0   | 0°94  | * ga.                          |
| 26    | 366    | 492    | 33°9  | 32°5 | 28°2 | 39°3 | 172 | 164 | 88   | 90   | WNW 1  | WNW 1  | 2   | 0   | 0°75  | * during day.                  |
| 27    | 29°611 | 845    | 33°0  | 32°9 | 30°6 | 37°9 | 184 | 143 | 98   | 76   | Calm 0 | Calm 0 | 9   | 1   | —     | * 2 ins. deep, gp.             |
| 28    | 30°025 | 789    | 29°2  | 34°6 | 28°2 | 35°3 | 124 | 196 | 78   | 98   | Calm 0 | Calm 0 | 7   | 10  | 0°560 | * 2 ins. thick, ga.            |
| 29    | 29°536 | 669    | 49°0  | 45°9 | 31°2 | 54°7 | 301 | 265 | 87   | 87   | W 2    | Calm 0 | 3   | 9   | 0°75  | ga. * during day; 2 ins. deep. |
| 30    | 29°687 | 29°525 | 48°0  | 40°8 | 40°8 | 51°2 | 307 | 211 | 92   | 83   | SW 1   | NW 3   | 10  | 3   | 0°285 | [gp.                           |
| 31    | 30°121 | 30°358 | 40°2  | 33°1 | 33°1 | 46°3 | 193 | 178 | 77   | 95   | NW 1   | Calm 0 | 0   | 0   | 0°26  | D gp.                          |
| Means | 30°026 | 30°044 | 39°9  | 39°5 | 34°6 | 46°3 | 222 | 217 | 89°1 | 88°8 | 0°7    | 0°7    | 6°6 | 4°8 | 1°743 |                                |

## DECEMBER.

## AUDLEY END, ESSEX.

Height above Mean Sea Level, 154 feet. Long. 0° 13' E. Lat. 52° 1' N.

DECEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain. | Remarks.                               |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|-------|----------------------------------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. |       |                                        |
| 1     | ins.       | ins.   | 37°              | 34°    | 31°  | 44°  | ins.               | ins.   | 90                 | 98     | Calm 0                     | Calm 0 | 8             | 0      | ins.  | ☼ ga. and before.<br>☼ ga. and before. |
| 2     | 29°256     | 29°612 | 37°              | 41°    | 32°  | 47°  | 226                | 250    | 100                | 95     | Calm 0                     | NE 1   | 10            | 0      | 0.020 |                                        |
| 3     | 29°984     | 30°179 | 37°              | 41°    | 32°  | 47°  | 224                | 250    | 94                 | 99     | NE 2                       | NE 2   | 10            | 10     | 0.080 | Densely overcast.                      |
| 4     | 30°194     | 30°134 | 44°              | 45°    | 40°  | 45°  | 279                | 298    | 94                 | 95     | Calm 0                     | Calm 0 | 10            | 10     | 0.070 |                                        |
| 5     | 30°016     | 29°913 | 42°              | 42°    | 41°  | 45°  | 272                | 263    | 99                 | 95     | N 1                        | Calm 0 | 10            | 10     | 0.300 |                                        |
| 6     | 29°531     | 29°611 | 41°              | 41°    | 40°  | 43°  | 257                | 254    | 98                 | 97     | N 1                        | Calm 0 | 10            | 10     | 0.300 |                                        |
| 7     | 29°928     | 29°930 | 39°              | 40°    | 37°  | 48°  | 217                | 227    | 91                 | 90     | S 3                        | W 2    | 10            | 0      | 0.030 |                                        |
| 8     | 30°166     | 30°268 | 34°              | 40°    | 33°  | 48°  | 189                | 237    | 95                 | 93     | SW 1                       | NW 2   | 0             | 10     | 0.100 |                                        |
| 9     | 30°244     | 30°125 | 41°              | 38°    | 31°  | 48°  | 251                | 223    | 95                 | 95     | NW 2                       | SW 1   | 5             | 10     | —     |                                        |
| 10    | 30°013     | 30°042 | 32°              | 28°    | 26°  | 39°  | 173                | 144    | 95                 | 94     | Calm 0                     | Calm 0 | 9             | 0      | —     | ☼ before ga.                           |
| 11    | 30°120     | 30°008 | 27°              | 39°    | 26°  | 39°  | 150                | 223    | 100                | 93     | SE 1                       | SE 1   | 4             | 10     | 0.120 | a. and p.                              |
| 12    | 29°700     | 29°957 | 49°              | 36°    | 35°  | 49°  | 334                | 185    | 93                 | 87     | SW 2                       | SW 1   | 7             | 0      | 0.110 | Very clear all day.                    |
| 13    | 29°904     | 29°999 | 35°              | 36°    | 32°  | 41°  | 196                | 186    | 95                 | 87     | SW 1                       | SW 2   | 0             | 0      | —     |                                        |
| 14    | 30°190     | 30°431 | 37°              | 37°    | 35°  | 41°  | 217                | 256    | 90                 | 93     | NW 2                       | NW 2   | 0             | 0      | —     |                                        |
| 15    | 30°508     | 30°404 | 34°              | 42°    | 29°  | 43°  | 177                | 256    | 90                 | 93     | SW 2                       | SW 2   | 7             | 8      | 0.030 |                                        |
| 16    | 30°330     | 30°449 | 49°              | 41°    | 41°  | 49°  | 255                | 309    | 86                 | 90     | SW 2                       | Calm 0 | 10            | 10     | 0.010 |                                        |
| 17    | 30°415     | 30°334 | 45°              | 47°    | 44°  | 49°  | 253                | 298    | 83                 | 93     | W 1                        | Calm 0 | 9             | 10     | 0.010 |                                        |
| 18    | 30°444     | 30°374 | 36°              | 29°    | 28°  | 47°  | 204                | 154    | 94                 | 93     | NW 1                       | Calm 0 | 4             | 0      | —     | ☼ at night.                            |
| 19    | 30°601     | 30°676 | 28°              | 37°    | 26°  | 37°  | 153                | 218    | 98                 | 98     | Calm 0                     | Calm 0 | 0             | 10     | 0.030 | ☼ ga. and before.                      |
| 20    | 30°702     | 30°632 | 43°              | 40°    | 36°  | 43°  | 248                | 248    | 98                 | 96     | Calm 0                     | Calm 0 | 10            | 10     | 0.020 | ☼ all day.                             |
| 21    | 30°534     | 30°486 | 39°              | 44°    | 39°  | 45°  | 244                | 288    | 99                 | 100    | Calm 0                     | Calm 0 | 10            | 10     | 0.010 | ☼ ga. and before.                      |
| 22    | 30°327     | 30°970 | 45°              | 49°    | 42°  | 49°  | 281                | 297    | 93                 | 86     | SW 1                       | W 1    | 10            | 10     | 0.040 | ☼ before ga.                           |
| 23    | 30°079     | 30°208 | 39°              | 38°    | 38°  | 49°  | 204                | 207    | 84                 | 85     | W 2                        | W 2    | 0             | 4      | —     |                                        |
| 24    | 30°785     | 30°706 | 41°              | 34°    | 33°  | 45°  | 228                | 134    | 87                 | 68     | W 3                        | NW 2   | 10            | 0      | —     | ☼ ga. and before. ☼ at night.          |
| 25    | 30°890     | 30°568 | 33°              | 33°    | 31°  | 35°  | 159                | 182    | 95                 | 95     | NW 1                       | Calm 0 | 7             | 10     | —     | ☼ a. and p.                            |
| 26    | 30°540     | 30°490 | 32°              | 33°    | 25°  | 38°  | 165                | 161    | 91                 | 84     | SW 2                       | NW 2   | 10            | 0      | 0.010 | ☼ storms during day.                   |
| 27    | 30°660     | 30°798 | 32°              | 34°    | 29°  | 36°  | 165                | 158    | 91                 | 80     | NW 2                       | NW 3   | 7             | 5      | 0.010 | ☼ ga. and before.                      |
| 28    | 30°010     | 30°952 | 34°              | 34°    | 30°  | 37°  | 154                | 196    | 77                 | 100    | NW 2                       | SW 2   | 7             | 10     | 0.620 |                                        |
| 29    | 30°040     | 30°749 | 46°              | 44°    | 34°  | 53°  | 313                | 281    | 99                 | 97     | SW 2                       | SW 1   | 10            | 0      | 0.050 |                                        |
| 30    | 30°812     | 30°491 | 45°              | 50°    | 38°  | 50°  | 286                | 355    | 95                 | 96     | SW 1                       | SW 2   | 10            | 10     | 0.310 | ☼ 2 at night.                          |
| 31    | 30°989     | 30°333 | 38°              | 38°    | 37°  | 50°  | 204                | 202    | 84                 | 87     | W 2                        | NW 2   | 0             | 0      | —     |                                        |
| Means | 30°044     | 30°062 | 39°              | 39°    | 34°  | 44°  | 224                | 229    | 92°                | 91°    | 1°                         | 1°     | 6°            | 5°     | 2°000 |                                        |



MARLBOROUGH, WILTS.

Height above Mean Sea Level, 471 feet. Long.  $1^{\circ} 43' W.$  Lat.  $51^{\circ} 25' N.$

DECEMBER 1877.

| Day.  | Barometer. |         | Air Temperature. |        |       |       | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks. |        |                      |
|-------|------------|---------|------------------|--------|-------|-------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------|--------|----------------------|
|       | 9 a.m.     | 9 p.m.  | 9 a.m.           | 9 p.m. | Min.  | Max.  | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. |        |          | 9 a.m. |                      |
| 1     | ins.       | ins.    | 31° 0            | 37° 7  | 30° 9 | 47° 0 | in.                | in.    | 100                | 96     | Calm                       | o      | NW            | 0° 1   | 4      | 9        | ins.   | ☼ before ga. ☼ ga. ☼ |
| 2     | 29° 273    | 29° 593 | 30° 218          | 37° 2  | 41° 5 | 34° 5 | 45° 4              | 174    | 216                | 97     | 92                         | NW     | 0° 3          | NW     | 0° 1   | 10       | 10     | ☼ before ga. ☼ ga. ☼ |
| 3     | 30° 222    | 30° 159 | 42° 7            | 43° 0  | 38° 3 | 44° 6 | 263                | 270    | 96                 | 98     | N                          | 0° 3   | N             | 0° 3   | 10     | 10       | ☼      | ☼                    |
| 4     | 30° 032    | 30° 032 | 41° 7            | 41° 3  | 41° 2 | 43° 9 | 259                | 246    | 98                 | 96     | N                          | 0° 1   | Calm          | 0      | 10     | 10       | ☼      | ☼                    |
| 5     | 30° 021    | 29° 884 | 39° 9            | 40° 4  | 39° 7 | 44° 0 | 239                | 234    | 98                 | 94     | Calm                       | o      | NW            | 0° 1   | 10     | 10       | ☼      | ☼                    |
| 6     | 29° 445    | 29° 661 | 48° 7            | 44° 6  | 39° 8 | 51° 9 | 342                | 254    | 99                 | 86     | S                          | 0° 3   | S             | 0° 3   | 10     | 0        | ☼      | ☼                    |
| 7     | 29° 945    | 29° 952 | 38° 5            | 38° 5  | 38° 5 | 46° 3 | 221                | 234    | 95                 | 100    | S                          | 0° 1   | Calm          | 0      | 6      | 0        | ☼      | ☼                    |
| 8     | 30° 210    | 30° 270 | 36° 8            | 41° 8  | 33° 3 | 48° 0 | 199                | 238    | 91                 | 91     | W                          | 0° 1   | W             | 0° 1   | 3      | 0        | ☼      | ☼                    |
| 9     | 30° 216    | 30° 074 | 41° 2            | 41° 7  | 37° 4 | 47° 0 | 229                | 244    | 89                 | 93     | W                          | 0° 1   | W             | 0° 1   | 7      | 5        | ☼      | ☼                    |
| 10    | 29° 967    | 30° 045 | 37° 5            | 36° 3  | 36° 3 | 42° 4 | 208                | 193    | 93                 | 91     | Calm                       | o      | SW            | 1° 2   | 10     | 10       | ☼      | ☼                    |
| 11    | 30° 108    | 29° 972 | 34° 0            | 44° 1  | 32° 7 | 44° 9 | 191                | 255    | 98                 | 88     | SW                         | 2° 2   | W             | 0° 3   | 6      | 8        | ☼      | ☼                    |
| 12    | 29° 757    | 30° 005 | 46° 0            | 36° 4  | 36° 4 | 50° 4 | 253                | 193    | 83                 | 90     | W                          | 0° 3   | Calm          | 0      | 1      | 0        | ☼      | ☼                    |
| 13    | 29° 939    | 30° 035 | 35° 7            | 31° 8  | 31° 3 | 41° 8 | 193                | 172    | 93                 | 97     | W                          | 0° 1   | Calm          | 0      | 0      | 0        | ☼      | ☼                    |
| 14    | 30° 261    | 30° 069 | 31° 6            | 30° 8  | 30° 3 | 44° 8 | 158                | 165    | 90                 | 96     | Calm                       | o      | SW            | 0° 8   | 9      | 10       | ☼      | ☼                    |
| 15    | 30° 536    | 30° 408 | 34° 3            | 43° 0  | 27° 3 | 43° 7 | 176                | 253    | 88                 | 91     | W                          | 3° 6   | W             | 0° 1   | 9      | 10       | ☼      | ☼                    |
| 16    | 30° 411    | 30° 417 | 42° 2            | 43° 5  | 39° 8 | 47° 1 | 256                | 258    | 95                 | 91     | Calm                       | o      | W             | 0° 1   | 9      | 10       | ☼      | ☼                    |
| 17    | 30° 439    | 30° 418 | 40° 1            | 44° 7  | 36° 1 | 46° 2 | 239                | 204    | 97                 | 99     | W                          | 0° 1   | W             | 0° 1   | 9      | 3        | ☼      | ☼                    |
| 18    | 30° 589    | 30° 606 | 34° 3            | 32° 9  | 32° 9 | 45° 8 | 187                | 183    | 95                 | 98     | Calm                       | o      | Calm          | 0      | 1      | 2        | ☼      | ☼                    |
| 19    | 30° 615    | 30° 683 | 31° 8            | 39° 9  | 28° 3 | 40° 9 | 156                | 244    | 87                 | 99     | W                          | 0° 1   | Calm          | 0      | 10     | 10       | ☼      | ☼                    |
| 20    | 30° 695    | 30° 622 | 36° 8            | 40° 2  | 36° 2 | 42° 2 | 213                | 236    | 98                 | 95     | Calm                       | o      | W             | 0° 1   | 10     | 10       | ☼      | ☼                    |
| 21    | 30° 544    | 30° 495 | 42° 5            | 43° 5  | 39° 9 | 46° 6 | 261                | 275    | 96                 | 98     | SW                         | 0° 1   | W             | 1° 2   | 10     | 10       | ☼      | ☼                    |
| 22    | 30° 355    | 30° 063 | 44° 3            | 47° 0  | 43° 3 | 48° 4 | 275                | 206    | 95                 | 92     | N                          | 0° 1   | W             | 0° 1   | 5      | 10       | ☼      | ☼                    |
| 23    | 30° 112    | 30° 255 | 39° 8            | 33° 0  | 33° 0 | 48° 0 | 220                | 167    | 91                 | 89     | W                          | 2° 2   | W             | 0° 3   | 7      | 7        | ☼      | ☼                    |
| 24    | 29° 860    | 29° 862 | 40° 5            | 32° 7  | 31° 9 | 44° 8 | 235                | 154    | 94                 | 83     | SW                         | 0° 1   | Calm          | 0      | 5      | 0        | ☼      | ☼                    |
| 25    | 30° 853    | 30° 522 | 29° 9            | 33° 6  | 28° 3 | 39° 7 | 152                | 186    | 92                 | 96     | W                          | 0° 6   | Calm          | 0      | 4      | 0        | ☼      | ☼                    |
| 26    | 30° 396    | 30° 511 | 33° 1            | 33° 6  | 26° 7 | 38° 7 | 180                | 160    | 96                 | 83     | Calm                       | o      | W             | 1° 2   | 5      | 1        | ☼      | ☼                    |
| 27    | 29° 651    | 30° 862 | 31° 1            | 32° 5  | 29° 5 | 36° 9 | 167                | 162    | 96                 | 89     | SW                         | 0° 3   | W             | 0° 1   | 8      | 2        | ☼      | ☼                    |
| 28    | 30° 068    | 30° 862 | 28° 7            | 35° 7  | 27° 0 | 36° 5 | 136                | 205    | 81                 | 99     | Calm                       | o      | S             | 0° 8   | 9      | 10       | ☼      | ☼                    |
| 29    | 29° 638    | 30° 746 | 49° 6            | 45° 9  | 35° 6 | 51° 7 | 345                | 293    | 97                 | 95     | SW                         | 0° 6   | SW            | 0° 3   | 10     | 8        | ☼      | ☼                    |
| 30    | 29° 781    | 29° 457 | 47° 7            | 47° 7  | 44° 3 | 50° 3 | 327                | 316    | 99                 | 96     | SW                         | 0° 6   | W             | 0° 6   | 10     | 10       | ☼      | ☼                    |
| 31    | 30° 124    | 30° 385 | 36° 7            | 32° 8  | 32° 8 | 48° 0 | 182                | 182    | 86                 | 98     | W                          | 0° 3   | Calm          | o      | 0      | 0        | ☼      | ☼                    |
| Means | 30° 067    | 30° 082 | 38° 3            | 39° 1  | 34° 6 | 45° 1 | 221                | 226    | 93° 6              | 93° 5  | 0° 4                       | 0° 3   | 7° 0          | 6° 0   | 2° 391 |          |        |                      |

STRATHFIELD TURGISS.

Height above Mean Sea Level, 195 feet. Long.  $1^{\circ} 0' W.$  Lat.  $51^{\circ} 20' N.$

DECEMBER 1877.

|       |        |        |      |      |      |      |      |      |      |      |      |     |      |     |     |       |          |                    |
|-------|--------|--------|------|------|------|------|------|------|------|------|------|-----|------|-----|-----|-------|----------|--------------------|
| 1     | 29°250 | 29°565 | 36°5 | 35°4 | 35°0 | 47°3 | *210 | *203 | 98   | 98   | Calm | o   | Calm | o   | 10  | 0     | —        | ga. and gp.<br>ga. |
| 2     | 29°942 | 30°186 | 38°8 | 40°5 | 32°3 | 46°8 | *222 | *231 | 95   | 92   | N    | 1   | N    | 1   | 10  | 10    | .018     |                    |
| 3     | 30°188 | "140   | 44°4 | 44°6 | 38°7 | 47°1 | *274 | *288 | 94   | 97   | NE   | 1   | NE   | 1   | 10  | 10    | .045     |                    |
| 4     | 30°444 | 30°008 | 42°9 | 41°9 | 39°0 | 44°6 | *265 | *264 | 96   | 99   | Calm | o   | NW   | 1   | 9   | 10    | .025     |                    |
| 5     | 29°997 | 29°897 | 40°5 | 39°1 | 38°6 | 45°5 | *245 | *228 | 98   | 96   | Calm | o   | NE   | 1   | 10  | 0     | .275     |                    |
| 6     | *471   | *626   | 48°7 | 45°4 | 38°2 | 55°1 | *328 | *256 | 96   | 85   | SE   | 1   | SW   | 1   | 10  | 0     | .016     |                    |
| 7     | 29°941 | 29°949 | 40°0 | 40°9 | 37°6 | 47°7 | *207 | *242 | 84   | 95   | SW   | 1   | S    | 1   | 4   | 10    | .044     |                    |
| 8     | 30°203 | 30°275 | 37°0 | 42°8 | 34°0 | 48°4 | *195 | *244 | 89   | 89   | SW   | 1   | SW   | 1   | 1   | 10    | —        |                    |
| 9     | 30°232 | *099   | 38°4 | 38°8 | 35°0 | 50°2 | *208 | *223 | 90   | 95   | Calm | o   | SE   | 1   | 3   | 4     | —        |                    |
| 10    | 29°971 | *037   | 34°0 | 33°8 | 32°3 | 39°3 | *192 | *179 | 98   | 92   | Calm | o   | SE   | 1   | 8   | 10    | —        |                    |
| 11    | 30°094 | 30°003 | 35°1 | 43°3 | 28°3 | 43°5 | *186 | *233 | 91   | 83   | SE   | o-1 | SW   | 2   | 10  | 10    | .128     |                    |
| 12    | 29°668 | 29°977 | 48°5 | 47°0 | 36°8 | 51°3 | *254 | *200 | 75   | 91   | W    | 2   | NW   | 1   | 5   | 6     | .188     |                    |
| 13    | 29°935 | 30°004 | 35°5 | 33°4 | 33°3 | 42°7 | *197 | *178 | 96   | 94   | W    | 1   | W    | 1   | 0   | 0     | —        |                    |
| 14    | 30°230 | *434   | 33°4 | 32°0 | 29°3 | 43°2 | *166 | *158 | 87   | 87   | W    | 1   | NW   | 1   | 4   | 0     | —        |                    |
| 15    | *532   | *428   | 32°3 | 42°5 | 27°1 | 42°9 | *145 | *233 | 80   | 86   | SW   | o-1 | SW   | 2   | 8   | 10    | .035     |                    |
| 16    | *404   | *375   | 42°0 | 46°8 | 47°6 | 48°6 | *245 | *277 | 92   | 87   | W    | 1   | NW   | 1   | 10  | 10    | —        |                    |
| 17    | *431   | *392   | 40°9 | 46°4 | 39°8 | 47°4 | *236 | *287 | 93   | 91   | Calm | o   | W    | 1   | 10  | 10    | —        |                    |
| 18    | *568   | *590   | 35°3 | 31°0 | 30°4 | 47°0 | *192 | *174 | 93   | 100  | Calm | o   | Calm | o   | 0   | 10    | —        |                    |
| 19    | *608   | *655   | 31°4 | 39°7 | 28°8 | 47°3 | *167 | *236 | 95   | 96   | Calm | o   | Calm | o   | 10  | 10    | gp.      |                    |
| 20    | *694   | *625   | 40°5 | 38°8 | 38°5 | 42°6 | *245 | *230 | 98   | 98   | Calm | o   | Calm | o   | 10  | 10    | all day. |                    |
| 21    | *524   | *488   | 41°4 | 43°8 | 38°3 | 46°1 | *245 | *272 | 95   | 96   | SW   | 1   | Calm | o   | 10  | 10    | all day. |                    |
| 22    | *340   | *060   | 45°5 | 47°9 | 42°8 | 48°9 | *274 | *294 | 91   | 89   | W    | 1   | SW   | 2   | 10  | 10    | .015     |                    |
| 23    | 30°097 | 30°239 | 40°2 | 33°5 | 33°0 | 48°6 | *208 | *172 | 84   | 91   | NW   | 1   | NW   | 1   | 3   | 7     | .042     |                    |
| 24    | 29°853 | 29°847 | 41°3 | 32°0 | 31°8 | 47°1 | *339 | *158 | 90   | 87   | W    | 2   | NW   | 1   | 10  | 0     | .046     |                    |
| 25    | *827   | *533   | 30°0 | 35°2 | 27°1 | 40°1 | *161 | *185 | 97   | 90   | W    | 1   | Calm | o   | 0   | 10    | .084     |                    |
| 26    | *374   | *492   | 33°6 | 34°8 | 29°3 | 40°0 | *158 | *160 | 83   | 79   | W    | 1   | NW   | 2   | 0   | 3     | —        |                    |
| 27    | 29°628 | *833   | 33°3 | 34°0 | 29°6 | 38°1 | *140 | *149 | 74   | 76   | W    | 2   | NW   | 1   | 8   | 0     | —        |                    |
| 28    | 30°061 | *910   | 27°5 | 34°3 | 25°7 | 35°4 | *110 | *192 | 75   | 97   | SW   | 1   | SW   | 1   | 4   | 10    | .477     |                    |
| 29    | 29°648 | *750   | 50°0 | 45°9 | 34°0 | 53°5 | *338 | *275 | 94   | 91   | SW   | 1   | W    | 1   | 10  | 10    | .054     |                    |
| 30    | 29°800 | 29°471 | 49°0 | 49°3 | 44°7 | 51°1 | *327 | *316 | 94   | 90   | S    | 1   | S    | 2   | 10  | 10    | .168     |                    |
| 31    | 30°123 | 30°365 | 39°3 | 33°7 | 33°3 | 49°8 | *188 | *178 | 79   | 92   | NW   | 2   | NW   | 1   | 0   | 0     | —        |                    |
| Means | 30°058 | 30°073 | 38°9 | 39°3 | 34°3 | 46°0 | *222 | *223 | 90°1 | 91°3 | o°8  |     | 1°0  | 6°7 | 6°7 | 1°677 | —        |                    |

DECEMBER.

## RAMSGATE.

Height above Mean Sea Level, 105 feet. Long.  $1^{\circ} 25' E.$  Lat.  $51^{\circ} 20' N.$

DECEMBER 1877.

| Day.  | Barometer. |         | Air Temperature. |        |        |        | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.     | Remarks. |           |      |
|-------|------------|---------|------------------|--------|--------|--------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|-----------|----------|-----------|------|
|       | 9 a.m.     | 9 p.m.  | 9 a.m.           | 9 p.m. | Min.   | Max.   | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m.    |          |           |      |
|       |            |         |                  |        |        |        |                    |        |                    |        |                            |        |               |        |           |          |           |      |
| 1     | ins.       | ins.    | 45° 0'           | 42° 5' | 41° 0' | 46° 3' | 271                | 257    | 91                 | 94     | S                          | 5      | Calm          | 0      | 10        | 6        | ins. '644 |      |
| 2     | 29° 249    | 29° 550 | 45° 0'           | 42° 5' | 41° 0' | 46° 3' | 271                | 257    | 81                 | 89     | NE                         | 4      | NE            | 2      | 6         | 10       | '122      |      |
| 3     | 29° 866    | 30° 124 | 47° 8'           | 45° 1' | 42° 1' | 48° 4' | 271                | 268    | 87                 | 96     | NE                         | 3      | NE            | 1      | 10        | 10       | '020      |      |
| 4     | 30° 118    | 30° 059 | 46° 4'           | 46° 9' | 44° 7' | 47° 3' | 273                | 260    | 87                 | 96     | NE                         | 1      | NE            | 2      | 10        | 10       | '125      |      |
| 5     | 29° 942    | 29° 936 | 45° 0'           | 43° 9' | 43° 4' | 47° 4' | 260                | 280    | 96                 | 97     | NW                         | 2      | Calm          | 0      | 10        | 10       | '020      |      |
| 6     | '952       | '926    | 43° 0'           | 42° 6' | 42° 1' | 44° 8' | 266                | 267    | 96                 | 97     | S                          | 6      | SW            | 4      | 10        | 6        | '094      |      |
| 7     | '596       | '615    | 43° 0'           | 49° 5' | 42° 1' | 50° 2' | 238                | 323    | 83                 | 92     | W                          | 2      | SW            | 1      | 2         | 10       | '502      |      |
| 8     | 29° 949    | 29° 890 | 41° 0'           | 44° 3' | 39° 9' | 50° 4' | 231                | 277    | 90                 | 96     | W                          | 2      | W             | 2      | 7         | 2        | —         |      |
| 9     | 30° 152    | 30° 306 | 37° 7'           | 40° 0' | 35° 9' | 45° 7' | 206                | 225    | 91                 | 91     | W                          | 2      | W             | 2      | 7         | 2        | —         |      |
| 10    | 30° 240    | '121    | 45° 9'           | 42° 6' | 39° 2' | 48° 7' | 288                | 220    | 94                 | 82     | S                          | 1      | SE            | 3      | 10        | 0        | —         |      |
| 11    | 29° 985    | '016    | 40° 2'           | 39° 9' | 39° 1' | 48° 2' | 213                | 206    | 86                 | 84     | SE                         | 3      | W             | 1      | 10        | 0        | —         |      |
| 12    | 30° 070    | 30° 072 | 36° 9'           | 37° 7' | 35° 5' | 40° 8' | 191                | 226    | 88                 | 92     | Calm                       | 0      | SW            | 1      | 8         | 9        | '045      |      |
| 13    | 29° 812    | 29° 987 | 47° 6'           | 38° 3' | 34° 4' | 49° 8' | 305                | 202    | 93                 | 87     | W                          | 2      | W             | 2      | 1         | 1        | '056      |      |
| 14    | 30° 909    | 29° 975 | 39° 2'           | 36° 3' | 35° 0' | 45° 3' | 195                | 193    | 81                 | 91     | SW                         | 3      | SW            | 2      | 8         | 0        | —         |      |
| 15    | 30° 165    | 30° 420 | 34° 5'           | 35° 3' | 32° 1' | 42° 8' | 182                | 198    | 91                 | 96     | W                          | 2      | NW            | 1      | 0         | 0        | —         |      |
| 16    | '508       | '429    | 34° 2'           | 42° 6' | 31° 5' | 43° 0' | 181                | 249    | 91                 | 91     | NW                         | 2      | NW            | 2      | 3         | 8        | 10        | '025 |
| 17    | '316       | '273    | 43° 7'           | 46° 3' | 42° 1' | 47° 0' | 244                | 88     | 91                 | 91     | SW                         | 2      | SW            | 4      | 10        | 10       | '063      |      |
| 18    | '407       | '303    | 45° 6'           | 43° 9' | 42° 0' | 48° 4' | 299                | 280    | 98                 | 98     | NW                         | 1      | Calm          | 0      | 10        | 10       | '052      |      |
| 19    | '570       | '551    | 41° 1'           | 39° 7' | 39° 3' | 46° 4' | 234                | 237    | 100                | 100    | NW                         | 1      | Calm          | 0      | 10        | 9        | —         |      |
| 20    | '680       | '678    | 34° 1'           | 31° 5' | 30° 7' | 40° 3' | 196                | 177    | 100                | 91     | Calm                       | 0      | SE            | 1      | 10        | 5        | —         |      |
| 21    | '522       | '506    | 38° 2'           | 41° 0' | 33° 8' | 42° 6' | 256                | 308    | 98                 | 94     | SE                         | 4      | SW            | 6      | 10        | 10       | '053      |      |
| 22    | 30° 346    | '034    | 41° 5'           | 47° 7' | 40° 1' | 48° 0' | 220                | 143    | 84                 | 90     | NW                         | 4      | NW            | 1      | 5         | 2        | —         |      |
| 23    | 29° 981    | 30° 240 | 42° 2'           | 36° 7' | 35° 1' | 48° 3' | 225                | 193    | 84                 | 90     | SW                         | 6      | W             | 6      | 10        | 1        | —         |      |
| 24    | '820       | 29° 756 | 41° 9'           | 36° 0' | 34° 6' | 44° 6' | 220                | 143    | 84                 | 67     | SW                         | 6      | W             | 6      | 10        | 1        | —         |      |
| 25    | '807       | '718    | 38° 2'           | 34° 2' | 30° 1' | 38° 7' | 152                | 176    | 84                 | 89     | W                          | 2      | Calm          | 0      | 2         | 8        | —         |      |
| 26    | '318       | '448    | 33° 4'           | 33° 9' | 30° 4' | 39° 3' | 184                | 156    | 100                | 79     | SW                         | 1      | W             | 4      | 8         | 1        | —         |      |
| 27    | 29° 576    | '776    | 31° 4'           | 33° 5' | 30° 8' | 37° 3' | 156                | 203    | 76                 | 97     | W                          | 5      | SW            | 1      | 7         | 10       | '659      |      |
| 28    | 30° 026    | '974    | 33° 4'           | 35° 9' | 30° 8' | 37° 3' | 156                | 203    | 76                 | 97     | W                          | 5      | S             | 2      | 10        | 0        | '025      |      |
| 29    | 29° 664    | '751    | 47° 9'           | 46° 3' | 35° 4' | 52° 5' | 331                | 297    | 100                | 95     | SW                         | 1      | S             | 2      | 10        | 0        | '216      |      |
| 30    | '866       | 29° 532 | 47° 1'           | 48° 6' | 44° 3' | 49° 4' | 317                | 333    | 98                 | 97     | S                          | 2      | SW            | 7      | 10        | 1        | —         |      |
| 31    | 29° 961    | 30° 525 | 41° 1'           | 37° 5' | 37° 1' | 49° 6' | 308                | 193    | 80                 | 86     | W                          | 6      | W             | 2      | 1         | 2        | —         |      |
| Means | 30° 028    | 30° 056 | 40° 7'           | 40° 6' | 36° 9' | 45° 5' | 232                | 233    | 89° 9'             | 90° 8' | 2° 5'                      | 2° 1'  | 7° 2'         | 5° 6'  | 2° 7° 21' |          |           |      |

## HASTINGS.

Height above Mean Sea Level, 172 feet. Long.  $0^{\circ} 38' E.$  Lat.  $50^{\circ} 52' N.$

DECEMBER 1877.

|       |         |         |      |      |      |      |     |     |      |      |           |           |     |     |       |                                         |
|-------|---------|---------|------|------|------|------|-----|-----|------|------|-----------|-----------|-----|-----|-------|-----------------------------------------|
| 1     | 29°23'6 | 29°53'0 | 46°4 | 42°1 | 39°7 | 48°0 | 283 | 258 | 90   | 97   | SSW 2     | N-NNE 3   | 10  | 10  | 255   | ▲ during past night.                    |
| 2     | 29°27'5 | 30°11'8 | 44°0 | 41°0 | 40°2 | 48°5 | 269 | 239 | 94   | 94   | NNE 3     | NNE 5     | 10  | 2   | 2010  | Bar. rising rapidly all day.            |
| 3     | 30°14'6 | 30°08'1 | 43°1 | 44°8 | 40°0 | 46°4 | 272 | 287 | 97   | 97   | NE 2      | NNE 1     | 10  | 10  | 2020  |                                         |
| 4     | 30°00'2 | 29°97'4 | 42°8 | 43°0 | 42°0 | 45°4 | 264 | 268 | 96   | 97   | NNE 1     | NNW 1     | 10  | 10  | 2030  |                                         |
| 5     | 29°09'9 | 29°48'  | 42°0 | 42°0 | 40°6 | 43°8 | 258 | 235 | 97   | 89   | NNW 1     | E         | 10  | 10  | 2090  |                                         |
| 6     | 29°60'2 | 29°67'  | 44°8 | 42°6 | 41°7 | 51°5 | 286 | 295 | 96   | 90   | S         | WSW 4     | 10  | 0   | 240   | Bright ○ 11.30a.                        |
| 7     | 29°97'9 | 29°93'8 | 45°2 | 43°8 | 42°0 | 49°8 | 259 | 260 | 85   | 92   | WSW 2     | WSW 5     | 8   | 10  | —     |                                         |
| 8     | 30°10'3 | 30°29'  | 37°3 | 41°7 | 35°8 | 46°4 | 256 | 242 | 90   | 93   | NW 1      | SE 1      | 1   | 0   | —     | Beachy Head very clear, 9a.             |
| 9     | 30°26'  | 30°13'6 | 48°0 | 42°8 | 41°2 | 49°6 | 266 | 231 | 80   | 84   | SSW 1     | NNE 1-2   | 10  | 0   | —     | Temp. steady all day but fall at night. |
| 10    | 29°99'0 | 29°99'  | 40°2 | 39°4 | 35°2 | 43°6 | 198 | 259 | 89   | 85   | SE 2      | E-BSE 0-1 | 10  | 0   | 180   |                                         |
| 11    | 30°09'1 | 30°07'6 | 34°3 | 46°6 | 33°8 | 46°8 | 279 | 259 | 89   | 82   | NE 1      | SSW 2     | 0   | 10  | 2075  | ○ 0.30p. p.                             |
| 12    | 29°83'9 | 29°00'3 | 48°4 | 38°1 | 36°6 | 49°2 | 331 | 195 | 98   | 84   | SSW-SW7-8 | W 3       | 10  | 0   | —     | ▲ in past night (communicated).         |
| 13    | 29°06'5 | 29°00'4 | 37°1 | 36°8 | 36°2 | 45°8 | 205 | 199 | 93   | 92   | W 2       | w-WNW 1   | 0   | 0   | —     | ▲ 2 ga.                                 |
| 14    | 30°21'6 | 29°44'  | 32°7 | 33°6 | 31°4 | 42°2 | 173 | 182 | 93   | 96   | NW 1      | NW 2      | 0   | 0   | 2085  | ▲ 2 ga. ○ 1p.                           |
| 15    | 29°55'2 | 29°47'  | 35°1 | 46°2 | 32°1 | 46°5 | 186 | 277 | 91   | 84   | W 2       | NNW 5     | 10  | 10  | —     |                                         |
| 16    | 29°39'0 | 29°32'8 | 43°2 | 47°4 | 41°9 | 47°6 | 273 | 275 | 97   | 84   | NNW 2     | W 3       | 3   | 10  | 2010  | ▲ 2 ga.                                 |
| 17    | 29°41'9 | 29°37'2 | 44°8 | 44°0 | 43°1 | 48°0 | 276 | 214 | 93   | 94   | N 3       | NNE 3     | 0   | 0   | 2010  | ▲ 2 ga. ▲ 2 ga. Very fine.              |
| 18    | 29°51'0 | 29°57'2 | 40°0 | 38°0 | 36°9 | 45°0 | 228 | 208 | 97   | 94   | NE 1      | NE 1      | 0   | 0   | —     |                                         |
| 19    | 29°56'  | 29°65'  | 36°3 | 39°8 | 37°9 | 36°2 | 227 | 216 | 93   | 95   | NE 2      | E         | 1   | 10  | 2015  |                                         |
| 20    | 29°69'2 | 29°63'  | 39°8 | 37°9 | 36°2 | 42°7 | 227 | 216 | 93   | 86   | SW 0-1    | SSW 1     | 10  | 10  | 2015  |                                         |
| 21    | 29°55'1 | 29°50'  | 43°4 | 43°9 | 36°7 | 45°8 | 289 | 325 | 97   | 99   | SW 3      | SW 5-6    | 10  | 10  | 2060  |                                         |
| 22    | 29°39'0 | 29°109' | 45°0 | 47°6 | 42°6 | 48°0 | 214 | 179 | 75   | 86   | NNW 5     | WNW 1     | 8   | 0   | —     |                                         |
| 23    | 30°01'1 | 30°23'2 | 43°7 | 35°8 | 34°6 | 48°7 | 214 | 179 | 75   | 77   | WSW 7     | W 2       | 10  | 0   | 2010  | ▲ 0a.                                   |
| 24    | 29°88'4 | 29°81'8 | 44°2 | 34°1 | 33°6 | 45°6 | 228 | 152 | 78   | 86   | WNW 1     | SW 0-1    | 0   | 10  | 200   | ★ 0 ga.                                 |
| 25    | 29°83'2 | 29°55'  | 29°6 | 35°7 | 28°1 | 39°1 | 145 | 176 | 88   | 78   | W 2       | W 3       | 10  | 0   | —     | ▲ 0a.                                   |
| 26    | 29°36'  | 29°33'  | 31°5 | 34°7 | 29°9 | 39°8 | 173 | 168 | 98   | 80   | W 2       | NW 1      | 0   | 0   | —     | ▲ 0a.                                   |
| 27    | 29°63'0 | 29°26'  | 30°4 | 30°9 | 29°0 | 36°0 | 134 | 142 | 78   | 80   | NNW 1     | S         | 3   | 8   | 2015  | ▲ 0a. ○ 11.45a.                         |
| 28    | 30°05'3 | 29°86'  | 31°8 | 39°0 | 28°0 | 39°3 | 133 | 222 | 74   | 94   | SW 5-6    | W 4       | 10  | 0   | 2070  | ▲ 0a.                                   |
| 29    | 29°71'5 | 29°80'  | 48°7 | 46°3 | 38°6 | 30°8 | 339 | 397 | 99   | 98   | SW 4-5    | S 5-6     | 10  | 10  | 2095  | ▲ at night.                             |
| 30    | 29°86'4 | 29°53'5 | 48°4 | 50°0 | 45°5 | 50°3 | 333 | 356 | 98   | 99   | W-WNW 5   | WNW 2     | 0   | 0   | —     |                                         |
| 31    | 30°03'6 | 30°35'2 | 41°0 | 37°0 | 35°7 | 50°6 | 199 | 199 | 78   | 90   |           |           |     |     |       |                                         |
| Means | 30°06'1 | 30°08'1 | 40°7 | 40°9 | 36°9 | 46°0 | 235 | 235 | 90°3 | 90°2 | 2°6       | 2°4       | 6°6 | 4°9 | 2°700 |                                         |



## DARTMOOR.

Height above Mean Sea Level, 1,372 feet. Long. 3° 59' W. Lat. 50° 33' N.

DECEMBER 1877.

| Day.  | Barometer. |         | Air Temperature. |        |       |       | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        |        |        | Cloud Amount. |        | Rain.  | Remarks. |
|-------|------------|---------|------------------|--------|-------|-------|--------------------|--------|--------------------|--------|----------------------------|--------|--------|--------|---------------|--------|--------|----------|
|       | 9 a.m.     | 9 p.m.  | 9 a.m.           | 9 p.m. | Min.  | Max.  | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m. | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |          |
| 1     | ins.       | ins.    | 40° 2            | 39° 4  | 36° 0 | 42° 6 | ins.               | ins.   | 92                 | 92     | N                          | 3      | N      | 4      | 5             | 2      | ins.   |          |
| 2     | 29° 385    | 29° 723 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 3     | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 4     | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 5     | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 6     | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 7     | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 8     | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 9     | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 10    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 11    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 12    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 13    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 14    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 15    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 16    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 17    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 18    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 19    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 20    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 21    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 22    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 23    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 24    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 25    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 26    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 27    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 28    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 29    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 30    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| 31    | 29° 723    | 30° 263 | 37° 6            | 35° 6  | 34° 0 | 43° 0 | 206                | 200    | 91                 | 97     | NE                         | 5      | N      | 5      | 5             | 0      | —      |          |
| Means | 30° 153    | 30° 177 | 38° 9            | 38° 8  | 35° 1 | 43° 3 | 224                | 226    | 93.4               | 94.6   | 2.3                        | 2.5    | 7.5    | 5.9    | 6.000         |        |        |          |

## BABBICOMBE, DEVON.

Height above Mean Sea Level, 293 feet. Long 3° 31' W. Lat. 50° 29' N.

DECEMBER 1877.

|       |         |         |       |       |       |       |     |     |      |      |      |     |      |     |       |    |     |  |
|-------|---------|---------|-------|-------|-------|-------|-----|-----|------|------|------|-----|------|-----|-------|----|-----|--|
| 1     | 29° 287 | 29° 630 | 42° 3 | 42° 0 | 39° 2 | 48° 9 | 250 | 243 | 93   | 88   | NW   | 2   | NNW  | 3   | 2     | 0  | —   |  |
| 2     | 29° 961 | 30° 185 | 42° 1 | 41° 8 | 41° 8 | 45° 9 | 230 | 235 | 86   | 89   | NNE  | 4   | NNE  | 4   | 0     | 0  | —   |  |
| 3     | 30° 212 | 30° 212 | 42° 3 | 43° 4 | 39° 2 | 44° 6 | 241 | 259 | 90   | 92   | NNE  | 4   | NNE  | 4   | 10    | 10 | —   |  |
| 4     | 30° 017 | 29° 808 | 36° 3 | 46° 8 | 35° 2 | 46° 9 | 210 | 258 | 98   | 81   | Calm | 0   | SSE  | 4   | 5     | 10 | 460 |  |
| 5     | 29° 447 | 29° 983 | 42° 1 | 40° 6 | 40° 6 | 47° 2 | 250 | 230 | 93   | 91   | WSW  | 1   | Calm | 0   | 9     | 0  | —   |  |
| 6     | 29° 447 | 29° 983 | 42° 1 | 40° 6 | 40° 6 | 47° 2 | 250 | 230 | 93   | 91   | WSW  | 1   | Calm | 0   | 9     | 0  | —   |  |
| 7     | 29° 447 | 29° 983 | 42° 1 | 40° 6 | 40° 6 | 47° 2 | 250 | 230 | 93   | 91   | WSW  | 1   | Calm | 0   | 9     | 0  | —   |  |
| 8     | 30° 255 | 30° 266 | 41° 1 | 39° 8 | 35° 6 | 49° 8 | 217 | 223 | 84   | 92   | WSW  | 1   | SW   | 2   | 3     | 2  | —   |  |
| 9     | 30° 173 | 29° 998 | 46° 0 | 46° 8 | 39° 0 | 48° 4 | 249 | 247 | 81   | 78   | S    | 4   | S    | 4   | 9     | 9  | —   |  |
| 10    | 29° 888 | 30° 021 | 44° 0 | 38° 3 | 38° 2 | 46° 8 | 215 | 211 | 74   | 92   | SE   | 2   | ENE  | 1   | 8     | 6  | —   |  |
| 11    | 30° 136 | 29° 975 | 40° 1 | 48° 0 | 35° 6 | 50° 0 | 218 | 319 | 88   | 96   | W    | 1   | SW   | 5   | 1     | 10 | 290 |  |
| 12    | 29° 866 | 30° 027 | 46° 8 | 38° 6 | 37° 5 | 51° 5 | 262 | 197 | 82   | 85   | W    | 3   | W    | 4   | 9     | 1  | 160 |  |
| 13    | 29° 982 | 30° 091 | 39° 2 | 35° 0 | 34° 7 | 46° 2 | 209 | 187 | 88   | 92   | W    | 3   | Calm | 0   | 1     | 0  | 020 |  |
| 14    | 30° 324 | 30° 498 | 39° 2 | 35° 2 | 34° 4 | 46° 8 | 204 | 191 | 85   | 93   | Calm | 0   | NNW  | 1   | 0     | 0  | 010 |  |
| 15    | 30° 427 | 30° 427 | 37° 7 | 46° 0 | 31° 1 | 47° 1 | 216 | 296 | 96   | 96   | SW   | 1   | SW   | 5   | 6     | 5  | 020 |  |
| 16    | 30° 486 | 30° 486 | 43° 9 | 45° 8 | 41° 6 | 49° 0 | 264 | 275 | 92   | 90   | WSW  | 2   | NW   | 1   | 10    | 10 | —   |  |
| 17    | 30° 479 | 30° 479 | 44° 1 | 46° 9 | 41° 2 | 47° 5 | 257 | 297 | 89   | 93   | WSW  | 1   | N    | 1   | 10    | 3  | —   |  |
| 18    | 30° 611 | 30° 603 | 40° 3 | 37° 9 | 37° 5 | 49° 3 | 235 | 216 | 95   | 95   | NNW  | 1   | NNW  | 2   | 2     | 3  | 050 |  |
| 19    | 30° 605 | 30° 607 | 41° 0 | 43° 6 | 34° 7 | 47° 2 | 255 | 281 | 99   | 99   | Calm | 0   | Calm | 0   | 10    | 10 | 020 |  |
| 20    | 30° 679 | 30° 607 | 44° 8 | 44° 7 | 43° 3 | 46° 8 | 287 | 281 | 97   | 95   | Calm | 0   | W    | 1   | 10    | 10 | —   |  |
| 21    | 30° 549 | 30° 486 | 44° 0 | 46° 4 | 43° 0 | 51° 4 | 276 | 311 | 96   | 98   | W    | 1   | W    | 1   | 10    | 10 | 010 |  |
| 22    | 30° 374 | 30° 406 | 45° 9 | 46° 9 | 45° 1 | 48° 9 | 305 | 285 | 99   | 90   | WSW  | 3   | W    | 6   | 10    | 10 | 010 |  |
| 23    | 30° 151 | 30° 293 | 42° 7 | 37° 3 | 37° 3 | 49° 3 | 205 | 193 | 75   | 87   | N    | 4   | NNW  | 2   | 6     | 8  | —   |  |
| 24    | 29° 932 | 29° 938 | 43° 2 | 32° 9 | 32° 9 | 47° 8 | 246 | 158 | 88   | 85   | W    | 5   | W    | 2   | 10    | 3  | 040 |  |
| 25    | 30° 874 | 30° 534 | 35° 9 | 36° 9 | 30° 9 | 44° 3 | 191 | 207 | 91   | 95   | W    | 1   | WSW  | 1   | 1     | 10 | 040 |  |
| 26    | 30° 514 | 30° 619 | 38° 8 | 37° 1 | 33° 5 | 43° 2 | 179 | 197 | 77   | 89   | NNW  | 3   | W    | 3   | 2     | 10 | 020 |  |
| 27    | 30° 713 | 30° 943 | 34° 5 | 35° 0 | 34° 1 | 41° 9 | 157 | 171 | 78   | 83   | Calm | 0   | SW   | 1   | 6     | 6  | —   |  |
| 28    | 30° 074 | 30° 814 | 33° 2 | 50° 0 | 31° 0 | 50° 2 | 160 | 353 | 85   | 98   | WSW  | 1   | WSW  | 5   | 9     | 10 | 330 |  |
| 29    | 29° 660 | 29° 775 | 51° 0 | 49° 9 | 48° 0 | 53° 9 | 358 | 325 | 96   | 91   | WSW  | 5   | WSW  | 4   | 9     | 10 | 040 |  |
| 30    | 29° 760 | 29° 636 | 50° 8 | 42° 8 | 42° 5 | 51° 3 | 353 | 226 | 95   | 83   | SW   | 3   | NW   | 6   | 10    | 0  | 240 |  |
| 31    | 30° 228 | 30° 408 | 40° 9 | 37° 1 | 36° 0 | 49° 0 | 215 | 205 | 84   | 93   | NNW  | 2   | W    | 1   | 1     | 3  | 010 |  |
| Means | 30° 090 | 30° 104 | 42° 2 | 41° 9 | 38° 1 | 48° 1 | 244 | 244 | 89.3 | 90.5 | 2.0  | 2.4 | 6.4  | 5.8 | 1.800 |    |     |  |

## ST. AUBIN'S, JERSEY.

Height above Mean Sea Level, 139 feet. Long. 2° 10' W. Lat. 49° 11' N.

DECEMBER 1877.

| Day.  | Barometer. |         | Air Temperature. |        |       |       | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks. |                   |                                        |
|-------|------------|---------|------------------|--------|-------|-------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------|-------------------|----------------------------------------|
|       | 9 a.m.     | 9 p.m.  | 9 a.m.           | 9 p.m. | Min.  | Max.  | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |          |                   |                                        |
| 1     | ins.       | ins.    | °                | °      | °     | °     | in.                | in.    | %                  | %      | N                          | 4      | N             | 3      | 10     | 2        | ins.              | Fine day.                              |
| 2     | 29° 252    | 29° 613 | 47° 5            | 47° 4  | 44° 3 | 51° 0 | 285                | 237    | 88                 | 73     | Nb.E                       | 3      | NE            | 5      | 9      | 2        | 035               | early a. in squalls, p.                |
| 3     | 29° 873    | 30° 120 | 47° 0            | 47° 3  | 44° 0 | 49° 8 | 260                | 246    | 81                 | 76     | NE                         | 2      | NE            | 1      | 10     | 10       | 028               |                                        |
| 4     | 29° 168    | 29° 124 | 47° 0            | 47° 6  | 45° 0 | 49° 5 | 244                | 268    | 75                 | 82     | Calm                       | 0      | Calm          | 0      | 10     | 9        | 028               | [2p. at night.                         |
| 5     | 29° 051    | 29° 045 | 47° 0            | 45° 7  | 42° 8 | 49° 8 | 287                | 265    | 90                 | 87     | Calm                       | 0      | SE            | 4      | 6      | 10       | 300               | in S. and S.E.a. 3.30p. 10p.—          |
| 6     | 29° 029    | 29° 002 | 46° 9            | 48° 3  | 42° 3 | 51° 1 | 261                | 282    | 81                 | 84     | Calm                       | 0      | SE            | 4      | 6      | 10       | 017               | Scotch 3p. at times, a. 3.30p.         |
| 7     | 29° 614    | 29° 837 | 53° 5            | 51° 5  | 46° 3 | 54° 9 | 390                | 267    | 96                 | 71     | SW                         | 3      | Wb.N          | 3      | 8      | 9        | 121               | [markedly, p.                          |
| 8     | 29° 039    | 29° 977 | 50° 3            | 46° 3  | 45° 6 | 53° 0 | 260                | 279    | 96                 | 96     | SW                         | 2      | Calm          | 0      | 6      | 0        | —                 | Stars twinkling re-                    |
| 9     | 29° 039    | 30° 332 | 48° 6            | 45° 2  | 40° 0 | 53° 0 | 226                | 231    | 74                 | 77     | Calm                       | 0      | Calm          | 0      | 6      | 0        | —                 | Very fine, early a. 0° a.              |
| 10    | 29° 254    | 29° 095 | 46° 9            | 44° 9  | 43° 8 | 47° 0 | 240                | 196    | 76                 | 66     | SE                         | 4      | SE            | 3      | 1      | 0        | —                 | 0° a. 3p. Day very fine. Double 5.15p. |
| 11    | 29° 912    | 29° 005 | 43° 3            | 40° 2  | 36° 0 | 44° 9 | 202                | 220    | 81                 | 89     | E                          | 4      | Calm          | 0      | 0      | 10       | —                 | [5p.                                   |
| 12    | 29° 912    | 29° 165 | 45° 4            | 47° 8  | 38° 3 | 51° 2 | 271                | 242    | 90                 | 73     | Calm                       | 0      | SW            | 4      | 10     | 10       | 176               | 0° n. and a. and at times during day.  |
| 13    | 29° 980    | 29° 132 | 40° 9            | 43° 0  | 42° 5 | 50° 7 | 242                | 240    | 95                 | 86     | W                          | 2      | W             | 1      | 10     | 2        | 129               | 0° 8p.                                 |
| 14    | 29° 082    | 29° 308 | 46° 8            | 42° 2  | 41° 0 | 51° 4 | 239                | 221    | 75                 | 83     | W                          | 2      | Wb.N          | 1      | 5      | 4        | 106               | 0° a. 0° 2p.                           |
| 15    | 29° 336    | 29° 591 | 45° 3            | 41° 9  | 40° 8 | 50° 6 | 210                | 204    | 69                 | 77     | Calm                       | 0      | Wb.S          | 4      | 9      | 10       | 024               | 0° Noon—1p. U and U² at inter-         |
| 16    | 29° 609    | 29° 437 | 48° 1            | 39° 5  | 51° 8 | 210   | 244                | 74     | 73                 | NW     | 1                          | NW     | 3             | 10     | 9      | —        | S.E. p. [vals, p. |                                        |
| 17    | 29° 568    | 29° 516 | 49° 0            | 50° 1  | 47° 8 | 53° 0 | 296                | 272    | 85                 | 75     | NW                         | 1      | NW            | 1      | 10     | 10       | 081               | 0° p. U at times.                      |
| 18    | 29° 522    | 29° 506 | 48° 2            | 49° 2  | 45° 0 | 50° 1 | 275                | 234    | 87                 | 84     | NNE                        | 1      | Nb.E          | 1      | 3      | 8        | —                 | 0° S.E. a. and p.                      |
| 19    | 29° 603    | 29° 622 | 46° 7            | 43° 2  | 41° 0 | 50° 1 | 252                | 262    | 81                 | 82     | Calm                       | 0      | NNE           | 1      | 7      | 10       | 073               | Partial 2.15p. 3p.                     |
| 20    | 29° 629    | 29° 686 | 44° 6            | 46° 0  | 41° 9 | 51° 7 | 239                | 252    | 87                 | 91     | Calm                       | 0      | Calm          | 0      | 10     | 10       | 019               |                                        |
| 21    | 29° 609    | 29° 658 | 45° 2            | 44° 7  | 43° 3 | 48° 1 | 288                | 291    | 87                 | 92     | SW                         | 2      | Calm          | 0      | 10     | 10       | 005               |                                        |
| 22    | 29° 582    | 29° 525 | 47° 8            | 46° 7  | 43° 5 | 48° 1 | 306                | 314    | 91                 | 89     | Calm                       | 0      | SW            | 4      | 10     | 10       | 120               |                                        |
| 23    | 29° 454    | 29° 270 | 48° 3            | 49° 5  | 45° 1 | 49° 5 | 306                | 204    | 99                 | 74     | NW                         | 2      | NE            | 1      | 10     | 9        | 014               |                                        |
| 24    | 29° 137    | 30° 337 | 51° 0            | 43° 2  | 40° 5 | 51° 7 | 369                | 195    | 75                 | 74     | W                          | 5      | NW            | 2      | 10     | 0        | 087               |                                        |
| 25    | 29° 149    | 29° 978 | 46° 7            | 42° 0  | 41° 3 | 48° 2 | 236                | 244    | 77                 | 89     | N                          | 1      | W             | 2      | 9      | 10       | 605               | 0° 10.30p.                             |
| 26    | 29° 924    | 29° 614 | 42° 3            | 42° 6  | 37° 2 | 47° 8 | 214                | 216    | 72                 | 74     | NW                         | 4      | NW            | 2      | 7      | 2        | 129               | 7.30a. and at times during day.        |
| 27    | 29° 547    | 29° 687 | 45° 0            | 44° 2  | 39° 9 | 47° 5 | 214                | 193    | 82                 | 70     | Calm                       | 0      | NW            | 1      | 10     | 2        | 027               | [Double 0° a.                          |
| 28    | 29° 741    | 29° 933 | 42° 4            | 42° 7  | 40° 0 | 45° 2 | 221                | 367    | 83                 | 97     | Calm                       | 0      | SW            | 4      | 7      | 10       | 243               | S.E. a.                                |
| 29    | 29° 128    | 29° 974 | 42° 0            | 51° 3  | 38° 4 | 51° 7 | 220                | 343    | 100                | 88     | SW                         | 3      | SW            | 4      | 10     | 5        | 046               | Scotch 5p. Very mild.                  |
| 30    | 29° 838    | 29° 919 | 51° 0            | 52° 0  | 50° 0 | 53° 8 | 374                | 343    | 90                 | 93     | SW                         | 2      | SW            | 3      | 10     | 10       | 060               | in squalls, p.                         |
| 31    | 29° 944    | 29° 667 | 51° 3            | 49° 1  | 48° 3 | 52° 3 | 342                | 225    | 221                | 69     | NW                         | 2      | NW            | 1      | 4      | 0        | —                 | Extremely fine day. 0° 9p.             |
| 31    | 29° 244    | 29° 447 | 47° 3            | 42° 8  | 42° 0 | 51° 2 | 225                | 221    | 69                 | 80     | NW                         | 2      | NW            | 1      | 4      | 0        | —                 |                                        |
| Means | 30° 141    | 30° 158 | 46° 9            | 46° 0  | 42° 5 | 50° 2 | 269                | 256    | 83° 2              | 82° 0  | 1° 6                       | 2° 0   | 7° 9          | 6° 5   | 5° 20  |          |                   |                                        |



## DUBLIN.

Height above Mean Sea Level, 51 feet. Long. 6° 15' W. Lat. 53° 20' N.

DECEMBER 1877.

| Day.  | Barometer. |        | Air Temperature. |        |      |      | Tension of Vapour. |        | Relative Humidity. |        | Wind, Direction and Force. |        | Cloud Amount. |        | Rain.  | Remarks.                                                                                     |
|-------|------------|--------|------------------|--------|------|------|--------------------|--------|--------------------|--------|----------------------------|--------|---------------|--------|--------|----------------------------------------------------------------------------------------------|
|       | 9 a.m.     | 9 p.m. | 9 a.m.           | 9 p.m. | Min. | Max. | 9 a.m.             | 9 p.m. | 9 a.m.             | 9 p.m. | 9 a.m.                     | 9 p.m. | 9 a.m.        | 9 p.m. | 9 a.m. |                                                                                              |
| 1     | ins.       | ins.   | 40.0             | 41.1   | 36.4 | 40.2 | in.                | in.    | 90                 | 90     | WNW 3                      | NW 2   | 6             | 0      | ins.   | Clear and cold morning. $\Delta^2$ p.                                                        |
| 2     | 29.337     | 29.788 | 36.5             | 37.3   | 35.0 | 43.7 | 206                | 217    | 95                 | 97     | NW 2                       | Calm 0 | 3             | 4      | —      | — a. $\Delta^2$ p.                                                                           |
| 3     | 339        | 210    | 36.1             | 41.4   | 33.0 | 43.1 | 203                | 251    | 95                 | 96     | Calm 0                     | Calm 0 | 9             | 10     | —      | $\Delta^2$ p. a. $\Delta^2$ p.                                                               |
| 4     | 30.071     | 30.024 | 42.0             | 41.4   | 40.3 | 44.2 | 249                | 253    | 94                 | 97     | S 1                        | Calm 0 | 10            | 10     | 0.40   | $\Delta^2$ p. a. $\Delta^2$ p.                                                               |
| 5     | 29.965     | 29.538 | 42.6             | 46.0   | 39.7 | 47.3 | 261                | 285    | 95                 | 92     | SE 1                       | SE 6   | 10            | 10     | 0.399  | $\Delta^2$ p. a. $\Delta^2$ p. in squalls with $\Delta^2$ p.                                 |
| 6     | 159        | 477    | 51.1             | 42.3   | 40.1 | 51.8 | 340                | 236    | 90                 | 88     | SW 4                       | WNW 7  | 9             | 10     | 0.157  | with squalls, a. & p. Much cooler, p.                                                        |
| 7     | 29.810     | 29.919 | 38.1             | 38.4   | 37.0 | 43.6 | 200                | 195    | 87                 | 85     | W 3                        | W 4    | 1             | 10     | 0.024  | a. $\Delta^2$ p. 10.30a.—2p.                                                                 |
| 8     | 30.056     | 30.110 | 44.8             | 43.5   | 38.1 | 46.5 | 243                | 233    | 82                 | 82     | SW 4                       | SW 3   | 9             | 0      | —      | [a. and p.                                                                                   |
| 9     | 29.948     | 29.770 | 50.3             | 50.8   | 42.2 | 51.8 | 311                | 321    | 85                 | 87     | SbyW 3                     | S 4    | 9             | 10     | 0.189  | Very mild. Squally Sly. breeze. [a. and p.                                                   |
| 10    | 796        | 981    | 48.3             | 43.4   | 43.2 | 51.2 | 324                | 251    | 96                 | 89     | SSE 2                      | W 3    | 10            | 10     | 0.080  | Temp. fell, p. [squalls. Very mild, p.                                                       |
| 11    | 952        | 517    | 42.9             | 53.1   | 36.4 | 53.6 | 207                | 349    | 76                 | 86     | S 2                        | WSW 4  | 10            | 6      | 0.103  | Clear and frosty, n. a. and p., with                                                         |
| 12    | 739        | 29.827 | 40.1             | 38.2   | 36.2 | 53.7 | 208                | 188    | 84                 | 82     | W 4                        | W 5    | 2             | 4      | 0.036  | $\Delta^2$ p. a. $\Delta^2$ p. 11a. p.                                                       |
| 13    | 29.800     | 30.040 | 37.8             | 36.3   | 35.9 | 40.6 | 191                | 190    | 84                 | 89     | WbyN 4                     | W 4    | 4             | 1      | 0.040  | $\Delta^2$ p. a. $\Delta^2$ p. Clear and cold, p.                                            |
| 14    | 30.309     | 422    | 35.8             | 35.6   | 34.1 | 40.8 | 193                | 197    | 92                 | 95     | W 2                        | W 1    | 0             | 0      | —      | $\Delta^2$ a. Bright and sunny throughout.                                                   |
| 15    | 322        | 354    | 45.2             | 43.8   | 33.8 | 48.6 | 245                | 253    | 82                 | 88     | SSW 3                      | W 3    | 10            | 4      | 0.055  | Very squally with $\Delta^2$ p. Fine and [mild, late p.                                      |
| 16    | 384        | 423    | 46.8             | 47.9   | 43.0 | 49.2 | 279                | 271    | 88                 | 82     | WbyN 4                     | WbyN 3 | 7             | 10     | —      | $\Delta^2$ ga. Dull, damp, & mild throughout.                                                |
| 17    | 334        | 506    | 45.8             | 42.1   | 41.6 | 50.7 | 261                | 244    | 85                 | 91     | W byS 3                    | WbyN 2 | 8             | 2      | —      | Very mild. Temp. falling with $\Delta^2$ p.                                                  |
| 18    | 609        | 505    | 37.4             | 42.6   | 36.2 | 44.3 | 214                | 245    | 96                 | 88     | WSW 1                      | S 1    | 4             | 10     | 0.156  | $\Delta^2$ p. a. $\Delta^2$ p. Bright day.                                                   |
| 19    | 613        | 700    | 45.9             | 37.2   | 36.8 | 47.7 | 290                | 202    | 94                 | 91     | WNW 2                      | W 1    | 10            | 0      | —      | $\Delta^2$ p. a. $\Delta^2$ p.                                                               |
| 20    | 631        | 496    | 39.0             | 47.0   | 32.7 | 47.2 | 218                | 287    | 92                 | 90     | SW 2                       | SW 4   | 4             | 10     | 0.040  | a. Very fine, a. Dull and mild, p.                                                           |
| 21    | 475        | 30.377 | 46.1             | 51.2   | 46.1 | 51.6 | 298                | 348    | 96                 | 93     | Calm 0                     | WSW 3  | 9             | 10     | —      | $\Delta^2$ ga. Warm and damp, p.                                                             |
| 22    | 125        | 29.870 | 49.1             | 51.1   | 48.5 | 51.7 | 286                | 345    | 82                 | 91     | WbyS 5                     | W 6    | 9             | 7      | 0.017  | Squally, ga. in squalls, p.                                                                  |
| 23    | 30.193     | 30.151 | 38.2             | 42.0   | 37.7 | 51.3 | 204                | 221    | 89                 | 84     | WNW 2                      | W 4    | 1             | 10     | —      | Temp. fell fast, n. Clear and cold, a.                                                       |
| 24    | 29.796     | 29.914 | 42.4             | 37.4   | 36.5 | 44.6 | 219                | 198    | 81                 | 89     | WNW 4                      | NW 2   | 3             | 10     | —      | a.                                                                                           |
| 25    | 799        | 445    | 34.5             | 37.8   | 32.0 | 37.9 | 182                | 188    | 91                 | 83     | W byS 3                    | WSW 3  | 8             | 6      | 0.031  | Frosty, n. $\Delta^0$ $\Delta^0$ $\Delta^0$ 9.30a.                                           |
| 26    | 456        | 572    | 34.9             | 34.2   | 33.9 | 38.8 | 171                | 142    | 84                 | 73     | WNW 3                      | WNW 4  | 7             | 3      | 0.012  | $\Delta^0$ $\Delta^0$ at times. with squalls, [a. and p.                                     |
| 27    | 671        | 924    | 32.2             | 33.4   | 31.8 | 36.5 | 158                | 159    | 86                 | 83     | WbyN 3                     | WNW 2  | 2             | 2      | —      | Sharp frost, a. $\Delta^0$ at times, a.                                                      |
| 28    | 911        | 552    | 35.0             | 51.2   | 30.2 | 51.6 | 149                | 345    | 72                 | 92     | SE 2                       | SW 3   | 10            | 10     | 0.570  | Hard frost, early a. $\Delta^0$ changing [to ga. Squally, p., with temp. [21° higher than a. |
| 29    | 418        | 556    | 50.8             | 46.7   | 46.2 | 52.6 | 309                | 277    | 83                 | 87     | WSW 5                      | WbyS 3 | 6             | 1      | —      | Mild and fine, a.                                                                            |
| 30    | 29.572     | 29.715 | 45.6             | 39.7   | 38.4 | 49.5 | 261                | 226    | 85                 | 92     | SW 2                       | WNW 3  | 10            | 0      | 0.381  | Clear and frosty, p.                                                                         |
| 31    | 30.191     | 30.310 | 36.2             | 41.2   | 35.0 | 43.6 | 193                | 235    | 90                 | 92     | WbyS 2                     | SW 1   | 0             | 10     | —      | $\Delta^2$ a. Bright and fine, and [milder, p.                                               |
| Means | 29.998     | 30.010 | 41.7             | 42.4   | 37.7 | 47.0 | 235                | 245    | 87.8               | 88.5   | 2.6                        | 2.9    | 6.5           | 6.1    | 2.330  |                                                                                              |

## BIRR CASTLE, PARSONSTOWN.

Height above Mean Sea Level, 182 feet. Long. 7° 55' W. Lat. 53° 6' N.

DECEMBER 1877.

|       |        |        |      |      |      |      |     |     |      |      |        |         |     |     |       |                                       |
|-------|--------|--------|------|------|------|------|-----|-----|------|------|--------|---------|-----|-----|-------|---------------------------------------|
| 1     | 29.395 | 29.869 | 41.9 | 40.0 | 36.4 | 48.2 | 248 | 234 | 94   | 95   | W 1    | WNW 2   | 10  | 9   | 0.001 | $\Delta^2$ from op.                   |
| 2     | 30.194 | 30.336 | 31.0 | 30.7 | 29.9 | 41.3 | 168 | 172 | 96   | 100  | Calm 0 | Calm 0  | 10  | 0   | 0.001 | $\Delta^2$ till 11a. and after sp.    |
| 3     | 330    | 190    | 25.6 | 35.0 | 24.4 | 41.3 | 131 | 200 | 95   | 98   | Calm 0 | Calm 0  | 2   | 10  | 0.003 | $\Delta^2$ a. Clouded suddenly 6.40p. |
| 4     | 30.049 | 30.016 | 36.8 | 42.2 | 34.7 | 44.5 | 218 | 265 | 100  | 98   | Calm 0 | Calm 0  | 10  | 10  | 0.066 | $\Delta^2$ ga. [squalls, p.           |
| 5     | 29.922 | 29.391 | 43.4 | 46.0 | 41.2 | 57.7 | 272 | 294 | 97   | 95   | SE 2   | E 3-4   | 10  | 10  | 0.484 |                                       |
| 6     | 154    | 567    | 50.0 | 42.0 | 39.0 | 51.7 | 342 | 220 | 95   | 83   | SW 4   | WNW 4   | 10  | 1   | 0.272 | in squalls, a.                        |
| 7     | 29.843 | 29.950 | 34.7 | 36.0 | 33.5 | 42.9 | 202 | 206 | 100  | 97   | SW 1   | WSW 1   | 8   | 10  | 0.151 | $\Delta^2$ 11a.                       |
| 8     | 30.075 | 30.089 | 44.4 | 40.5 | 35.3 | 47.5 | 260 | 237 | 89   | 94   | SW 1   | WSW 2   | 10  | 10  | 0.278 |                                       |
| 9     | 29.869 | 29.683 | 50.5 | 50.7 | 39.8 | 51.8 | 356 | 360 | 97   | 97   | SSE 2  | SSW 1   | 10  | 10  | 0.261 |                                       |
| 10    | 791    | 30.041 | 45.4 | 38.3 | 38.0 | 51.4 | 296 | 215 | 98   | 94   | Calm 0 | W 0.5   | 10  | 0   | 0.134 |                                       |
| 11    | 857    | 29.502 | 40.0 | 51.1 | 32.5 | 53.3 | 232 | 365 | 94   | 97   | S 3    | WSW 2   | 10  | 10  | 0.308 |                                       |
| 12    | 777    | 29.837 | 38.7 | 35.0 | 34.2 | 51.9 | 189 | 200 | 81   | 98   | WNW 2  | WSW 1   | 2   | 4   | 0.087 |                                       |
| 13    | 29.843 | 30.103 | 36.4 | 35.7 | 34.0 | 51.9 | 161 | 194 | 75   | 92   | WSW 1  | WNW 0.5 | 5   | 0   | —     |                                       |
| 14    | 30.349 | 433    | 33.6 | 33.8 | 31.5 | 42.5 | 187 | 192 | 96   | 99   | W 0.5  | SW 0.5  | 2   | 2   | 0.052 |                                       |
| 15    | 263    | 390    | 44.3 | 41.6 | 33.2 | 49.8 | 273 | 250 | 94   | 95   | SSW 2  | W 1     | 10  | 2   | 0.088 |                                       |
| 16    | 446    | 430    | 46.5 | 47.0 | 39.1 | 50.4 | 288 | 287 | 91   | 90   | W 1    | WSW 0.5 | 10  | 10  | 0.010 | U p.                                  |
| 17    | 338    | 558    | 44.9 | 37.7 | 35.5 | 51.5 | 283 | 222 | 95   | 99   | SE 1   | WSW 0.5 | 10  | 8   | —     | $\Delta^2$ ga.                        |
| 18    | 613    | 472    | 31.4 | 43.8 | 30.8 | 44.5 | 175 | 281 | 97   | 99   | SW 1   | SSE 0.5 | 0   | 10  | 0.149 |                                       |
| 19    | 627    | 695    | 44.4 | 33.1 | 33.1 | 49.0 | 290 | 187 | 99   | 99   | Calm 0 | Calm 0  | 10  | 0   | 0.003 | $\Delta^2$ p.                         |
| 20    | 614    | 504    | 36.0 | 47.0 | 29.1 | 48.4 | 210 | 306 | 99   | 95   | SE 1   | SSW 1   | 4   | 10  | 0.031 |                                       |
| 21    | 479    | 30.393 | 48.0 | 49.0 | 46.2 | 51.5 | 335 | 345 | 100  | 99   | SW 1   | SSW 2   | 10  | 10  | 0.010 |                                       |
| 22    | 156    | 29.926 | 48.1 | 50.0 | 47.0 | 51.5 | 306 | 348 | 91   | 97   | W 2    | W 3     | 10  | 10  | 0.034 |                                       |
| 23    | 30.250 | 30.185 | 39.3 | 41.0 | 36.9 | 50.9 | 211 | 231 | 88   | 90   | NW 1   | W 1     | 3   | 10  | 0.057 |                                       |
| 24    | 29.894 | 29.945 | 40.7 | 33.8 | 33.0 | 44.9 | 229 | 184 | 90   | 94   | WSW 1  | W 0.5   | 2   | 0   | 0.001 |                                       |
| 25    | 778    | 440    | 35.8 | 36.8 | 28.7 | 39.3 | 166 | 214 | 79   | 98   | W 0.5  | S 0.5   | 10  | 10  | 0.035 |                                       |
| 26    | 517    | 641    | 35.0 | 33.6 | 33.3 | 40.2 | 174 | 149 | 85   | 77   | W 1    | WNW 3   | 6   | 7   | —     |                                       |
| 27    | 738    | 989    | 29.8 | 28.7 | 28.3 | 39.3 | 149 | 143 | 90   | 91   | Calm 0 | W 0.5   | 9   | 0   | 0.173 | U p.—mid.                             |
| 28    | 811    | 499    | 36.2 | 50.4 | 26.1 | 51.4 | 204 | 364 | 95   | 99   | SE 1   | SSE 1   | 10  | 10  | 0.510 |                                       |
| 29    | 451    | 557    | 47.5 | 44.7 | 44.6 | 52.3 | 287 | 279 | 88   | 94   | W 2    | WSW 1   | 6   | 3   | 0.047 |                                       |
| 30    | 29.564 | 29.804 | 43.1 | 38.5 | 38.3 | 48.3 | 265 | 213 | 95   | 92   | SW 0.5 | SW 2    | 10  | 0   | 0.091 | $\Delta^2$ ga.                        |
| 31    | 30.212 | 30.292 | 33.7 | 37.2 | 32.5 | 44.6 | 192 | 218 | 99   | 98   | SW 1   | SSE 1   | 1   | 1   | 0.016 |                                       |
| Means | 30.006 | 30.023 | 39.9 | 40.4 | 34.8 | 47.9 | 235 | 244 | 93.0 | 94.9 | 1.1    | 1.2     | 7.4 | 6.0 | 3.353 |                                       |

## PART II.

## MONTHLY SUMMARIES FROM STATIONS OF THE SECOND ORDER, 1877.

THE following is the list of Stations, the Returns from which are published as Monthly Means and Summaries on the Form, B., proposed by the Permanent Committee of the Vienna Congress.

As in previous years the Stations, observations from which are given in the preceding pages *in extenso* on Form A., are included in this list.

The hours of observation were 9 a.m. and 9 p.m. at all the Stations except Durham, where they were 10 a.m. and 10 p.m.

The Mean Pressure is obtained by adding the mean for 9 a.m. to that for 9 p.m., and dividing by 2.

The number of days of Rain is the number of days of precipitation, without regard to the amount or to its form.

The days of Clear-sky are those days when the mean of the cloud-amounts at 9 a.m. and 9 p.m. is less than 2; when the mean is greater than 8, the day is counted as Overcast.

The days of Gale are those days when force 7 or upwards (Beaufort's scale) was recorded.

An asterisk prefixed to any Station indicates that the Returns have been furnished by the Meteorological Society.

## Stations.

## Observers.

|                              |                                         |
|------------------------------|-----------------------------------------|
| Sandwich, Orkney             | Rev. C. Clouston, LL.D.                 |
| Glenalmond (Trinity College) | Rev. W. Percy Robinson, D.D.            |
| Seaham                       | Mr. G. H. Aird.                         |
| Durham                       | G. A. Goldney, Esq.                     |
| *Hawes                       | Rev. J. D. Parker, LL.D.                |
| Hull                         | Rev. W. P. Mackay, M.D.                 |
| *Wakefield                   | H. Clarke, L.R.C.P., F.S.S.             |
| Prestwich (near Manchester)  | T. R. H. Clunn, M.D.                    |
| *Kelstern                    | D. G. Briggs, Esq.                      |
| *Llandudno                   | J. Nicol, M.D.                          |
| *Buxton                      | E. J. Sykes, F.R.A.S.                   |
| *Cheadle, Stafford           | J. C. Phillips, Esq.                    |
| *Hillington, Norfolk         | Rev. H. Ffolkes.                        |
| Leicester                    | W. J. Harrison, F.G.S.                  |
| Uppingham                    | Rev. G. H. Mullins, M.A.                |
| Oscott                       | Rev. S. J. Whitty, B.A.                 |
| *Churchstoke                 | P. Wright, F.C.S.                       |
| *Hereford                    | T. A. Chapman, M.D.                     |
| *Audley End, Essex           | Mr. J. Bryan.                           |
| *Carmarthen                  | G. J. Hearder, M.D.                     |
| Chigwell Row                 | J. Campbell, Staff Surgeon, R.N.        |
| *Marlborough, Wilts          | Rev. T. A. Preston, M.A.                |
| *Strathfield Turgiss         | Rev. C. H. Griffith.                    |
| *Ramsgate                    | Rev. A. E. O'Gara, O.S.B.               |
| Folkestone                   | A. Henry Taylor, Esq.                   |
| Hastings                     | Alex. E. Murray, F.M.S.                 |
| *Dartmoor                    | R. E. Power, L.R.C.P.                   |
| *Babbicombe, Devon           | E. E. Glyde, Esq.                       |
| St. Aubin's, Jersey          | J. E. Vibert, M.A.                      |
| Markree Castle, Sligo        | E. Salles, for Colonel Cooper, F.R.A.S. |
| Dublin                       | J. W. Moore, M.D.                       |
| Birr Castle, Parsonstown     | J. Dreyer, M.A., for Earl of Rosse.     |



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## SANDWICK, ORKNEY.

Long. 3° 18' W. Lat. 59° 2' N. Height above Mean Sea Level, 94 feet.

| 1877.     | Mean Pressure. | Air Temperature. |        |       |          |      |                        |      |                      |      |        | Tension of Vapour. |       |        | Relative Humidity. |       |      |
|-----------|----------------|------------------|--------|-------|----------|------|------------------------|------|----------------------|------|--------|--------------------|-------|--------|--------------------|-------|------|
|           |                | 9 a.m.           | 9 p.m. | Mean. | Means of |      | Absolute Min. and Max. |      |                      |      | 9 a.m. | 9 p.m.             | Mean. | 9 a.m. | 9 p.m.             | Mean. |      |
|           |                |                  |        |       | Min.     | Max. | Min.                   | Day. | Max.                 | Day. |        |                    |       |        |                    |       |      |
|           |                |                  |        |       |          |      |                        |      |                      |      |        |                    |       |        |                    |       |      |
| at 32° F. | ins.           |                  |        |       |          |      |                        |      |                      |      |        |                    |       |        |                    |       |      |
| 29.454    | January        | 29.560           | 36.7   | 36.6  | 36.7     | 34.0 | 41.1                   | 27.2 | { 2nd, 3rd, & 11th } | 48.0 | 25th   | in.                | in.   | in.    | %                  | %     | %    |
| 473       | February       | .579             | 37.9   | 37.5  | 37.7     | 34.3 | 42.1                   | 20.3 | 27th                 | 48.2 | 15th   | .195               | .196  | .196   | 90                 | 91    | 91   |
| 508       | March          | .614             | 38.5   | 36.6  | 37.6     | 34.2 | 42.3                   | 20.9 | 19th                 | 47.6 | 10th   | .205               | .203  | .204   | 90                 | 91    | 91   |
| 762       | April          | .867             | 41.1   | 38.3  | 39.7     | 35.9 | 44.5                   | 28.3 | 14th                 | 51.5 | 4th    | .201               | .196  | .199   | 87                 | 91    | 89   |
| 750       | May            | .854             | 45.0   | 42.7  | 43.9     | 39.9 | 48.7                   | 29.4 | 3rd                  | 59.0 | 27th   | .207               | .200  | .204   | 80                 | 87    | 84   |
| 740       | June           | .843             | 52.4   | 51.0  | 51.7     | 46.3 | 56.8                   | 42.8 | 22nd                 | 66.9 | 17th   | .237               | .237  | .237   | 79                 | 87    | 83   |
| 584       | July           | .686             | 55.2   | 52.8  | 54.0     | 50.2 | 58.9                   | 45.0 | 23rd                 | 65.7 | 22nd   | .309               | .309  | .309   | 79                 | 82    | 81   |
| 728       | August         | .826             | 53.0   | 50.8  | 51.9     | 48.1 | 56.5                   | 40.4 | 25th                 | 64.0 | 13th   | .355               | .350  | .353   | 82                 | 87    | 85   |
| 890       | September      | .993             | 50.7   | 48.5  | 49.6     | 46.3 | 53.5                   | 39.8 | 30th                 | 59.9 | 13th   | .330               | .324  | .327   | 82                 | 87    | 85   |
| 584       | October        | .688             | 46.1   | 45.1  | 45.6     | 41.8 | 50.5                   | 31.7 | 19th                 | 60.0 | 5th    | .305               | .290  | .298   | 83                 | 85    | 84   |
| 148       | November       | .251             | 42.7   | 42.6  | 42.7     | 39.8 | 46.7                   | 30.0 | 24th                 | 53.0 | 2nd    | .268               | .254  | .261   | 86                 | 85    | 86   |
| 29.596    | December       | 29.701           | 39.7   | 40.5  | 40.1     | 36.9 | 44.5                   | 25.6 | 28th                 | 51.8 | 22nd   | .234               | .240  | .237   | 86                 | 88    | 87   |
| 29.600    | Year           | 29.705           | 44.9   | 43.6  | 44.3     | 40.6 | 48.8                   | —    | —                    | —    | —      | .220               | .226  | .223   | 90                 | 90    | 90   |
|           |                |                  |        |       |          |      |                        |      |                      |      |        | .256               | .252  | .254   | 84.5               | 87.6  | 86.1 |

## GLENALMOND.

Long. 3° 40' W. Lat. 56° 27' N. Height above Mean Sea Level, 529 feet.

|  |  | Air Temperature. |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Tension of Vapour.     |  |  | Relative Humidity.     |  |  |
|--|--|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------------------------|--|--|------------------------|--|--|
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
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|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
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|  |  | Means of         |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Relative Min. and Max. |  |  |
|  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                        |  |  |                        |  |  |

\* Five days' observations missing.

## SEAHAM.

Long. 1° 19' W. Lat. 54° 50' N. Height above Mean Sea Level, 60 feet.

|  |  | Air Temperature. |  |  |  |  |  |  |  |  |  | Tension of Vapour.     |  |  | Relative Humidity. |  |  |
|--|--|------------------|--|--|--|--|--|--|--|--|--|------------------------|--|--|--------------------|--|--|
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
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|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
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|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
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|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
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|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
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|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
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|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  | Means of           |  |  |
|  |  | Means of         |  |  |  |  |  |  |  |  |  | Absolute Min. and Max. |  |  |                    |  |  |

## MONTHLY SUMMARIES.—SANDWICK—GLENALMOND—SEAHAM.

## SANDWICK, ORKNEY.

Thermometers 4 feet above ground. Rain-gauge 2 feet above ground.

| 1877.       | Amount of Cloud. |        |       | Rainfall.  |           |      | Weather, No. of Days of |       |       |                 |            |           |       |    | Wind, No. of Observations of |    |      |    |      |     |      |       |  |
|-------------|------------------|--------|-------|------------|-----------|------|-------------------------|-------|-------|-----------------|------------|-----------|-------|----|------------------------------|----|------|----|------|-----|------|-------|--|
|             | 9 a.m.           | 3 p.m. | Mean. | Total.     | Max.      | Day. | Rain.                   | Snow. | Hail. | Thunder Storms. | Clear Sky. | Overcast. | Gale. | N. | N.E.                         | E. | S.E. | S. | S.W. | W.  | N.W. | Calm. |  |
|             |                  |        |       |            |           |      |                         |       |       |                 |            |           |       |    |                              |    |      |    |      |     |      |       |  |
| January -   | 6.9              | 6.7    | 6.8   | ins. 3.430 | ins. .870 | 19th | 24                      | 5     | 2     | 0               | 2          | 11        | 6     | 3  | 5                            | 5  | 9    | 9  | 8    | 8   | 4    | 11    |  |
| February -  | 6.6              | 5.8    | 6.2   | 4.330      | .640      | 12th | 26                      | 9     | 1     | 0               | 2          | 8         | 8     | 5  | 0                            | 1  | 3    | 6  | 8    | 12  | 15   | 6     |  |
| March -     | 5.6              | 5.5    | 5.6   | 2.810      | .360      | 11th | 27                      | 8     | 2     | 0               | 4          | 6         | 5     | 4  | 5                            | 6  | 2    | 7  | 8    | 13  | 10   | 7     |  |
| April -     | 6.0              | 6.3    | 6.2   | 1.440      | .310      | 3rd  | 11                      | 8     | 0     | 0               | 5          | 10        | 8     | 6  | 5                            | 16 | 18   | 3  | 1    | 0   | 5    | 6     |  |
| May -       | 6.7              | 6.0    | 6.4   | 2.730      | .790      | 26th | 19                      | 4     | 2     | 0               | 4          | 12        | 0     | 9  | 10                           | 11 | 9    | 4  | 6    | 5   | 7    | 1     |  |
| June -      | 4.8              | 4.8    | 4.8   | 3.380      | .970      | 21st | 16                      | 0     | 2     | 0               | 8          | 5         | 0     | 2  | 0                            | 9  | 11   | 9  | 12   | 10  | 5    | 2     |  |
| July -      | 7.4              | 6.4    | 6.9   | 2.850      | .480      | 19th | 24                      | 1     | 1     | 0               | 1          | 14        | 1     | 1  | 1                            | 3  | 10   | 4  | 11   | 21  | 5    | 6     |  |
| August -    | 6.6              | 7.0    | 6.8   | 2.500      | .460      | 7th  | 21                      | 0     | 0     | 1               | 2          | 13        | 0     | 6  | 7                            | 11 | 13   | 0  | 3    | 2   | 12   | 8     |  |
| September - | 6.4              | 7.0    | 6.7   | 1.630      | .260      | 13th | 20                      | 0     | 1     | 0               | 5          | 13        | 0     | 11 | 2                            | 0  | 6    | 3  | 2    | 8   | 24   | 4     |  |
| October -   | 6.3              | 6.1    | 6.2   | 4.570      | .600      | 15th | 22                      | 4     | 2     | 1               | 2          | 9         | 4     | 2  | 0                            | 0  | 4    | 13 | 4    | 16  | 9    | 14    |  |
| November -  | 5.9              | 6.4    | 6.2   | 7.000      | 1.220     | 29th | 25                      | 2     | 1     | 0               | 3          | 10        | 8     | 1  | 0                            | 1  | 6    | 17 | 9    | 13  | 9    | 4     |  |
| December -  | 7.1              | 7.3    | 7.2   | 4.100      | .540      | 10th | 23                      | 3     | 1     | 0               | 3          | 17        | 3     | 3  | 0                            | 1  | 3    | 16 | 15   | 11  | 6    | 7     |  |
| Year        | 6.4              | 6.3    | 6.3   | 40.770     | —         | —    | 258                     | 44    | 15    | 2               | 41         | 128       | 43    | 53 | 35                           | 64 | 94   | 91 | 87   | 119 | 111  | 76    |  |

## GLENALMOND.

Thermometers 4 feet above ground. Rain-gauge 1 foot above ground.

|           |   |     |     | ins. | ins.   | 1st   | 26   | 14  | 1  | 0 | 1 | 15 | 1   | 6  | 7  | 3  | 5   | 18 | 7  | 2   | 8   |
|-----------|---|-----|-----|------|--------|-------|------|-----|----|---|---|----|-----|----|----|----|-----|----|----|-----|-----|
| January   | - | 7.6 | 7.3 | 7.5  | 8.990  | 1.000 | 11th | 16  | 8  | 1 | 0 | 4  | 7   | 0  | 6  | 0  | 2   | 2  | 15 | 16  | 6   |
| February  | - | 6.2 | 4.9 | 5.6  | 3.260  | .540  | 11th | 16  | 8  | 1 | 0 | 4  | 7   | 0  | 6  | 0  | 2   | 2  | 14 | 7   | 6   |
| March     | - | 7.2 | 5.9 | 6.6  | 1.990  | .450  | 27th | 15  | 10 | 2 | 0 | 2  | 14  | 0  | 5  | 2  | 8   | 5  | 1  | 5   | 15  |
| April     | - | 7.8 | 6.6 | 7.2  | 3.950  | .890  | 4th  | 15  | 3  | 1 | 0 | 1  | 14  | 0  | 2  | 8  | 25  | 12 | 1  | 5   | 2   |
| May       | - | 6.4 | 6.5 | 6.5  | 3.560  | .810  | 17th | 14  | 1  | 0 | 1 | 0  | 10  | 3  | 4  | 14 | 13  | 4  | 2  | 9   | 11  |
| June      | - | 6.4 | 6.5 | 6.5  | 5.290  | .950  | 21st | 18  | 0  | 0 | 0 | 4  | 10  | 0  | 2  | 0  | 14  | 9  | 0  | 13  | 17  |
| July      | - | 8.5 | 8.1 | 8.3  | 4.840  | 1.410 | 14th | 21  | 0  | 0 | 2 | 0  | 17  | 1  | 3  | 2  | 3   | 6  | 2  | 13  | 22  |
| August    | - | 7.9 | 7.6 | 7.8  | 7.660  | 1.940 | 20th | 23  | 0  | 0 | 3 | 1  | 18  | 3  | 1  | 6  | 17  | 8  | 8  | 8   | 6   |
| September | - | 5.2 | 6.6 | 5.9  | 3.030  | .830  | 5th  | 7   | 1  | 0 | 1 | 1  | 8   | 1  | 4  | 1  | 10  | 5  | 0  | 11  | 9   |
| October   | - | 7.3 | 6.0 | 6.7  | 7.620  | 1.050 | 14th | 21  | 3  | 2 | 0 | 1  | 12  | 0  | 2  | 3  | 2   | 3  | 15 | 9   | 11  |
| November  | - | *   | —   | —    | 5.760  | 1.000 | 15th | 20  | 1  | 0 | 0 | *0 | *8  | *1 | *1 | 0  | 3   | 2  | 8  | 18  | 8   |
| December  | - | 6.4 | 6.2 | 6.3  | 4.691  | 1.360 | 11th | 17  | 6  | 0 | 0 | 3  | 10  | 3  | 2  | 0  | 5   | 1  | 7  | 12  | 10  |
| Year      | - | —   | —   | —    | 60.641 | —     | —    | 213 | 47 | 7 | 7 | 18 | 143 | 13 | 36 | 39 | 110 | 59 | 36 | 141 | 129 |



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## DURHAM

Long. 1° 35' W. Lat. 54° 46' N. Height above Mean Sea Level, 335 feet.

| 1877.         | Mean<br>Pressure. | Air Temperature. |         |       |          |      |                        |      |      |      |             | Tension of Vapour. |             |           | Relative Humidity. |           |  |
|---------------|-------------------|------------------|---------|-------|----------|------|------------------------|------|------|------|-------------|--------------------|-------------|-----------|--------------------|-----------|--|
|               |                   | 10 a.m.          | 10 p.m. | Mean. | Means of |      | Absolute Min. and Max. |      |      |      | 10 a.m.     | 10 p.m.            | Mean.       | 10 a.m.   | 10 p.m.            | Mean.     |  |
|               |                   |                  |         |       | Min.     | Max. | Min.                   | Day. | Max. | Day. |             |                    |             |           |                    |           |  |
|               |                   |                  |         |       |          |      |                        |      |      |      |             |                    |             |           |                    |           |  |
| January - -   | ins.<br>29°698    | 38°7             | 37°9    | 38°3  | 33°6     | 44°4 | 24°3                   | 2nd  | 55°9 | 19th | in.<br>°213 | in.<br>°212        | in.<br>°213 | %<br>89°3 | %<br>91°2          | %<br>90°3 |  |
| February - -  | °765              | 41°9             | 38°9    | 40°4  | 35°1     | 47°1 | 21°3                   | 27th | 53°8 | 24th | °232        | °215               | °224        | 86°0      | 87°7               | 86°9      |  |
| March - - -   | °687              | 39°9             | 36°3    | 38°1  | 31°6     | 45°4 | 19°6                   | 1st  | 57°9 | 30th | °209        | °192               | °201        | 84°5      | 88°4               | 86°5      |  |
| April - - -   | °809              | 42°8             | 39°7    | 41°3  | 36°1     | 47°6 | 28°3                   | 20th | 59°3 | 4th  | °228        | °225               | °227        | 82°9      | 90°9               | 86°0      |  |
| May - - - -   | °857              | 48°0             | 42°6    | 45°3  | 38°5     | 52°7 | 26°8                   | 4th  | 63°0 | 16th | °267        | °252               | °260        | 79°3      | 91°1               | 85°2      |  |
| June - - - -  | °941              | 60°8             | 51°5    | 56°2  | 47°6     | 67°0 | 38°5                   | 16th | 76°6 | 28th | °380        | °343               | °362        | 71°6      | 89°4               | 80°5      |  |
| July - - - -  | °786              | 60°5             | 53°5    | 57°0  | 50°1     | 67°0 | 39°3                   | 5th  | 79°0 | 30th | °406        | °382               | °394        | 77°1      | 92°1               | 84°6      |  |
| August - - -  | 29°796            | 59°3             | 53°7    | 56°5  | 49°9     | 65°0 | 37°5                   | 24th | 73°5 | 7th  | °432        | °397               | °415        | 85°6      | 95°1               | 90°4      |  |
| September -   | 30°043            | 53°9             | 48°4    | 51°2  | 43°9     | 59°1 | 36°3                   | 27th | 69°3 | 11th | °328        | °316               | °322        | 78°7      | 92°2               | 85°5      |  |
| October - - - | 29°871            | 48°9             | 45°2    | 47°1  | 40°2     | 55°2 | 28°1                   | 18th | 62°9 | 7th  | °287        | °272               | °280        | 82°6      | 88°7               | 85°7      |  |
| November - -  | °480              | 43°7             | 42°1    | 42°9  | 37°8     | 49°0 | 29°5                   | 24th | 58°9 | 6th  | °236        | °237               | °237        | 82°6      | 87°0               | 84°8      |  |
| December - -  | 29°902            | 39°6             | 38°9    | 39°3  | 34°6     | 44°3 | 25°0                   | 25th | 51°9 | 12th | °214        | °211               | °213        | 86°8      | 86°9               | 86°9      |  |
| Year - - - -  | 29°803            | 48°2             | 44°1    | 46°2  | 39°9     | 53°7 | —                      | —    | —    | —    | °286        | °271               | °279        | 82°3      | 90°1               | 86°2      |  |

## HAWES

Long. 2° 11' W. Lat. 54° 18' N. Height above Mean Sea Level, 800 feet.

|             | ins.   | 9 a.m. | 9 p.m. | Mean. |      |      |      |      |      |      | 9 a.m. | 9 p.m. | Mean. | 9 a.m. | 9 p.m. | Mean. |
|-------------|--------|--------|--------|-------|------|------|------|------|------|------|--------|--------|-------|--------|--------|-------|
|             |        |        |        |       |      |      |      |      |      |      |        |        |       |        |        |       |
| January -   | 29.745 | 38.1   | 37.7   | 37.9  | 33.7 | 42.7 | 21.0 | 2nd  | 52.0 | 19th | 212    | 203    | 208   | 90.2   | 88.8   | 89.5  |
| February -  | 832    | 39.7   | 38.0   | 38.9  | 34.7 | 43.2 | 15.8 | 28th | 49.8 | 2nd  | 218    | 208    | 213   | 85.1   | 86.6   | 85.9  |
| March -     | 729    | 37.6   | 36.0   | 36.8  | 30.9 | 42.5 | 13.9 | 1st  | 52.2 | 30th | 187    | 186    | 187   | 81.6   | 86.0   | 83.8  |
| April -     | 816    | 41.6   | 39.0   | 40.3  | 34.4 | 46.6 | 23.0 | 2nd  | 55.1 | 20th | 211    | 213    | 212   | 80.2   | 88.4   | 84.3  |
| May -       | 891    | 45.4   | 42.0   | 43.7  | 36.8 | 51.1 | 21.5 | 4th  | 61.0 | 31st | 238    | 236    | 237   | 78.1   | 86.3   | 82.2  |
| June -      | 986    | 56.0   | 52.0   | 54.0  | 46.4 | 63.6 | 36.5 | 24th | 77.7 | 20th | 348    | 336    | 342   | 78.0   | 86.5   | 82.3  |
| July -      | 842    | 56.0   | 53.1   | 54.6  | 48.7 | 61.1 | 35.0 | 6th  | 68.0 | 30th | 372    | 369    | 371   | 82.5   | 90.4   | 86.5  |
| August -    | 29.834 | 56.1   | 53.4   | 54.8  | 49.3 | 62.3 | 36.6 | 24th | 70.2 | 6th  | 380    | 379    | 380   | 83.9   | 81.5   | 82.7  |
| September - | 30.089 | 50.8   | 46.8   | 48.8  | 41.8 | 56.6 | 32.0 | 27th | 63.3 | 26th | 296    | 297    | 297   | 79.5   | 92.1   | 85.8  |
| October -   | 29.917 | 46.0   | 44.9   | 45.5  | 39.3 | 53.7 | 29.0 | 18th | 63.1 | 2nd  | 274    | 268    | 271   | 87.3   | 89.0   | 88.2  |
| November -  | 536    | 41.3   | 42.1   | 41.7  | 38.2 | 46.6 | 28.3 | 24th | 55.5 | 16th | 226    | 238    | 232   | 86.2   | 87.5   | 86.9  |
| December -  | 29.957 | 38.1   | 38.6   | 38.4  | 34.4 | 42.5 | 25.0 | 25th | 49.0 | 12th | 207    | 211    | 209   | 87.7   | 88.5   | 88.1  |
| Year -      | 29.848 | 45.6   | 43.6   | 44.6  | 39.1 | 51.0 | —    | —    | —    | —    | 264    | 262    | 263   | 83.4   | 87.6   | 85.5  |

## HULL

Long. 0° 20' W. Lat. 53° 45' N. Height above Mean Sea Level, 14 feet.

|             | ins.   |      |      |      |      |      |      |           |      |                          | in. | in. | in. | %    | %    | %    |
|-------------|--------|------|------|------|------|------|------|-----------|------|--------------------------|-----|-----|-----|------|------|------|
|             |        |      |      |      |      |      |      |           |      |                          |     |     |     |      |      |      |
| January -   | 29.770 | 40.7 | 40.2 | 40.5 | 35.9 | 45.7 | 30.0 | 13th      | 56.0 | 19th                     | 226 | 226 | 226 | 89   | 91   | 90   |
| February -  | 824    | 41.7 | 40.8 | 41.3 | 36.5 | 47.1 | 23.6 | 28th      | 54.3 | 14th                     | 243 | 236 | 240 | 93   | 93   | 93   |
| March -     | 726    | 39.8 | 38.7 | 39.3 | 34.1 | 46.4 | 25.0 | 1st       | 57.5 | 26th                     | 219 | 220 | 220 | 90   | 94   | 92   |
| April -     | 811    | 44.8 | 42.6 | 43.7 | 39.2 | 48.9 | 32.5 | 25th      | 58.5 | 4th                      | 250 | 238 | 244 | 85   | 87   | 86   |
| May -       | 29.887 | 49.5 | 46.2 | 47.9 | 41.4 | 54.8 | 29.0 | 4th & 6th | 66.5 | 31st                     | 288 | 270 | 279 | 82   | 87   | 85   |
| June -      | 30.000 | 60.4 | 56.7 | 58.6 | 50.4 | 69.2 | 43.0 | 15th      | 79.5 | 3rd                      | 383 | 384 | 384 | 73   | 84   | 79   |
| July -      | 29.851 | 62.1 | 58.3 | 60.2 | 53.0 | 68.1 | 44.0 | 7th & 8th | 74.5 | 10th, 23rd, 29th, & 30th | 423 | 403 | 413 | 76   | 82   | 79   |
| August -    | 29.829 | 60.4 | 57.6 | 59.0 | 53.0 | 66.0 | 43.0 | 24th      | 74.5 | 17th                     | 430 | 429 | 430 | 82   | 90   | 86   |
| September - | 30.075 | 53.3 | 49.9 | 51.6 | 44.3 | 58.7 | 34.0 | 28th      | 67.0 | 11th                     | 338 | 331 | 335 | 83   | 93   | 88   |
| October -   | 29.935 | 48.4 | 46.7 | 47.6 | 41.0 | 54.8 | 29.0 | 18th      | 69.5 | 14th                     | 298 | 286 | 292 | 88   | 90   | 89   |
| November -  | 578    | 43.5 | 43.7 | 43.6 | 38.7 | 49.7 | 30.0 | 24th      | 58.5 | 7th & 9th                | 249 | 262 | 256 | 88   | 92   | 90   |
| December -  | 29.968 | 38.8 | 39.4 | 39.1 | 34.7 | 44.5 | 26.5 | 27th      | 53.5 | 22nd                     | 217 | 226 | 222 | 92   | 94   | 93   |
| Year -      | 29.855 | 48.6 | 46.7 | 47.7 | 41.9 | 54.5 | —    | —         | —    | —                        | 297 | 293 | 295 | 85.1 | 89.8 | 87.5 |

## MONTHLY SUMMARIES.—DURHAM—HAWES—HULL.

## DURHAM.

Thermometers 5 feet above ground. Rain-gauge 4 feet 6 inches above ground.

| 1877.       | Amount of Cloud. |         |       | Rainfall. |      |      | Weather, No. of Days of |       |       |                 |            |           |       |    | Wind, No. of Observations of |    |      |     |      |     |      |       |     |  | Days of Rain<br>005 |
|-------------|------------------|---------|-------|-----------|------|------|-------------------------|-------|-------|-----------------|------------|-----------|-------|----|------------------------------|----|------|-----|------|-----|------|-------|-----|--|---------------------|
|             | 10 a.m.          | 10 p.m. | Mean. | Total.    | Max. | Day. | Rain.                   | Snow. | Hail. | Thunder Storms. | Clear Sky. | Overcast. | Gale. | N. | N.E.                         | E. | S.E. | S.  | S.W. | W.  | N.W. | Calm. |     |  |                     |
| January -   | 6.9              | 6.8     | 6.9   | ins.      | ins. | 3rd  | 21                      | 3     | 1     | 0               | 3          | 15        | 1     | 2  | 4                            | 4  | 2    | 24  | 9    | 8   | 8    | 1     | 21  |  |                     |
| February -  | 6.2              | 5.4     | 5.8   | 2.189     | 357  | 3rd  | 16                      | 4     | 0     | 0               | 2          | 8         | 1     | 4  | 1                            | 0  | 1    | 11  | 11   | 17  | 11   | 0     | 14  |  |                     |
| March -     | 6.5              | 5.5     | 6.0   | 4.585     | 1642 | 25th | 18                      | 6     | 0     | 0               | 3          | 10        | 0     | 4  | 7                            | 5  | 3    | 7   | 9    | 11  | 13   | 3     | 17  |  |                     |
| April -     | 8.7              | 7.7     | 8.2   | 6.063     | 1267 | 9th  | 20                      | 4     | 0     | 1               | 1          | 19        | 0     | 3  | 14                           | 18 | 7    | 9   | 1    | 1   | 7    | 0     | 19  |  |                     |
| May -       | 8.3              | 6.5     | 7.4   | 3.184     | 500  | 17th | 16                      | 2     | 1     | 1               | 1          | 14        | 0     | 10 | 14                           | 7  | 3    | 10  | 9    | 5   | 4    | 0     | 16  |  |                     |
| June -      | 6.1              | 5.1     | 5.6   | 1.693     | 401  | 22nd | 12                      | 0     | 0     | 0               | 5          | 9         | 1     | 1  | 8                            | 4  | 6    | 14  | 17   | 6   | 3    | 1     | 12  |  |                     |
| July -      | 8.2              | 6.5     | 7.4   | 3.809     | 1061 | 14th | 15                      | 0     | 0     | 3               | 0          | 15        | 0     | 2  | 1                            | 1  | 4    | 11  | 17   | 15  | 7    | 4     | 15  |  |                     |
| August -    | 9.0              | 8.3     | 8.7   | 6.080     | 843  | 18th | 21                      | 0     | 1     | 6               | 0          | 20        | 0     | 3  | 10                           | 4  | 6    | 11  | 8    | 4   | 11   | 5     | 21  |  |                     |
| September - | 7.6              | 6.8     | 7.2   | 1.834     | 549  | 6th  | 12                      | 0     | 0     | 0               | 2          | 15        | 0     | 10 | 8                            | 2  | 4    | 8   | 5    | 7   | 15   | 1     | 12  |  |                     |
| October -   | 5.9              | 4.9     | 5.4   | 3.777     | 800  | 19th | 20                      | 0     | 1     | 0               | 5          | 8         | 0     | 3  | 2                            | 0  | 3    | 19  | 15   | 14  | 5    | 1     | 19  |  |                     |
| November -  | 5.2              | 6.3     | 5.8   | 3.060     | 747  | 11th | 17                      | 0     | 0     | 0               | 3          | 9         | 0     | 0  | 1                            | 0  | 3    | 28  | 15   | 9   | 4    | 0     | 16  |  |                     |
| December -  | 5.4              | 6.0     | 5.7   | 2.237     | 742  | 30th | 14                      | 3     | 0     | 0               | 6          | 10        | 0     | 1  | 3                            | 3  | 2    | 12  | 17   | 11  | 10   | 3     | 14  |  |                     |
| Year -      | 7.0              | 6.3     | 6.7   | 44.693    | —    | —    | 202                     | 22    | 4     | 11              | 31         | 152       | 3     | 43 | 73                           | 48 | 44   | 164 | 133  | 108 | 98   | 19    | 196 |  |                     |

## HAWES.

Thermometers 4 feet above ground. Rain-gauge 1 foot above ground.

|             | 9 a.m. | 9 p.m. | Mean | ins.   | ins.  |      |     |    |    |    |    |     |   |    |    |     |    |    |     |     |    |     |  |  |  |
|-------------|--------|--------|------|--------|-------|------|-----|----|----|----|----|-----|---|----|----|-----|----|----|-----|-----|----|-----|--|--|--|
| January -   | 8.3    | 7.5    | 7.9  | 11.430 | 2.140 | 29th | 26  | 8  | 5  | 0  | 1  | 19  | 1 | 0  | 2  | 6   | 2  | 6  | 16  | 16  | 3  | 11  |  |  |  |
| February -  | 8.5    | 6.0    | 7.3  | 5.770  | .660  | 19th | 23  | 8  | 3  | 0  | 2  | 14  | 0 | 4  | 0  | 1   | 0  | 1  | 15  | 26  | 8  | 1   |  |  |  |
| March -     | 8.1    | 6.3    | 7.2  | 3.820  | .400  | 25th | 25  | 9  | 5  | 1  | 2  | 14  | 0 | 4  | 1  | 8   | 1  | 0  | 5   | 18  | 6  | 19  |  |  |  |
| April -     | 8.5    | 8.4    | 8.5  | 3.430  | .510  | 4th  | 18  | 6  | 2  | 4  | 1  | 19  | 0 | 1  | 6  | 26  | 7  | 3  | 4   | 4   | 0  | 9   |  |  |  |
| May -       | 8.6    | 7.0    | 7.8  | 3.540  | .940  | 27th | 19  | 3  | 4  | 1  | 1  | 18  | 0 | 6  | 9  | 15  | 1  | 0  | 8   | 12  | 1  | 10  |  |  |  |
| June -      | 7.9    | 6.6    | 7.3  | 4.190  | 1.310 | 1st  | 19  | 0  | 0  | 3  | 4  | 17  | 0 | 1  | 14 | 2   | 1  | 12 | 19  | 2   | 8  |     |  |  |  |
| July -      | 9.0    | 7.8    | 8.4  | 4.920  | 1.230 | 14th | 25  | 0  | 1  | 3  | 0  | 20  | 0 | 0  | 0  | 2   | 2  | 3  | 14  | 30  | 4  | 7   |  |  |  |
| August -    | 8.8    | 8.6    | 8.7  | 8.900  | 1.230 | 20th | 24  | 0  | 1  | 3  | 0  | 24  | 0 | 0  | 2  | 15  | 2  | 1  | 9   | 17  | 3  | 13  |  |  |  |
| September - | 7.1    | 6.2    | 6.7  | 4.070  | 1.700 | 13th | 15  | 0  | 1  | 0  | 3  | 13  | 0 | 5  | 4  | 9   | 3  | 1  | 6   | 6   | 4  | 22  |  |  |  |
| October -   | 7.3    | 5.6    | 6.5  | 9.240  | 1.740 | 12th | 23  | 0  | 3  | 0  | 4  | 13  | 1 | 1  | 0  | 2   | 1  | 3  | 19  | 15  | 4  | 17  |  |  |  |
| November -  | 7.9    | 7.8    | 7.9  | 11.560 | 1.610 | 21st | 26  | 4  | 3  | 1  | 2  | 18  | 0 | 0  | 1  | 1   | 5  | 23 | 19  | 3   | 8  |     |  |  |  |
| December -  | 8.5    | 7.6    | 8.1  | 5.730  | 1.000 | 30th | 23  | 5  | 4  | 1  | 0  | 18  | 0 | 1  | 1  | 3   | 1  | 1  | 10  | 27  | 3  | 15  |  |  |  |
| Year        | 8.2    | 7.1    | 7.7  | 76.600 | —     | —    | 266 | 43 | 32 | 17 | 20 | 207 | 2 | 23 | 26 | 102 | 23 | 25 | 141 | 209 | 41 | 140 |  |  |  |



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## WAKEFIELD

Long. 1° 30' W. Lat. 53° 41' N. Height above Mean Sea Level, 96 feet.

| 1877.     | Mean Pressure. | Air Temperature. |        |       |          |      |                        |      |      | Tension of Vapour. |        |       | Relative Humidity. |        |       |
|-----------|----------------|------------------|--------|-------|----------|------|------------------------|------|------|--------------------|--------|-------|--------------------|--------|-------|
|           |                | 9 a.m.           | 9 p.m. | Mean. | Means of |      | Absolute Min. and Max. |      |      | 9 a.m.             | 9 p.m. | Mean. | 9 a.m.             | 9 p.m. | Mean. |
|           |                |                  |        |       | Min.     | Max. | Min.                   | Day. | Max. |                    |        |       |                    |        |       |
| January   | ins. 29.764    | 41.2             | 40.6   | 40.9  | 36.1     | 46.9 | 29.2                   | 12th | 58.6 | 19th               | in.    | in.   | in.                | %      | %     |
| February  | 29.851         | 43.1             | 42.8   | 43.0  | 38.6     | 48.8 | 22.2                   | 23rd | 55.6 | 15th               | 24.0   | 23.2  | 23.6               | 91.4   | 90.3  |
| March     | 29.736         | 39.5             | 39.6   | 39.6  | 34.2     | 46.1 | 18.1                   | 1st  | 57.0 | 30th               | 21.3   | 21.6  | 21.5               | 87.7   | 87.6  |
| April     | 29.804         | 43.9             | 43.3   | 43.6  | 37.7     | 49.2 | 28.4                   | 25th | 57.2 | 4th                | 24.3   | 25.1  | 24.7               | 84.6   | 88.5  |
| May       | 29.883         | 48.3             | 47.0   | 47.7  | 40.9     | 54.9 | 24.8                   | 6th  | 63.6 | 31st               | 27.1   | 28.5  | 27.8               | 79.9   | 87.1  |
| June      | 29.997         | 59.3             | 57.9   | 58.6  | 50.2     | 67.9 | 42.1                   | 16th | 77.8 | 3rd                | 35.3   | 36.4  | 35.9               | 70.4   | 75.5  |
| July      | 29.853         | 60.4             | 57.6   | 59.0  | 52.4     | 65.9 | 39.8                   | 5th  | 74.5 | 30th               | 38.4   | 38.5  | 38.5               | 72.8   | 80.6  |
| August    | 29.831         | 60.0             | 57.9   | 59.0  | 52.7     | 66.9 | 40.6                   | 24th | 74.8 | 6th                | 39.7   | 40.9  | 40.3               | 76.6   | 84.3  |
| September | 30.076         | 52.9             | 50.3   | 51.6  | 44.3     | 59.6 | 32.1                   | 27th | 65.8 | 11th               | 31.5   | 32.1  | 31.8               | 78.7   | 87.6  |
| October   | 29.944         | 47.8             | 47.0   | 47.4  | 40.5     | 56.6 | 28.2                   | 18th | 67.8 | 14th               | 27.7   | 27.4  | 27.6               | 83.1   | 84.0  |
| November  | 29.567         | 44.2             | 45.0   | 44.6  | 39.6     | 51.6 | 28.2                   | 24th | 60.2 | 16th               | 24.7   | 25.8  | 25.3               | 84.1   | 84.9  |
| December  | 29.972         | 40.7             | 40.6   | 40.7  | 36.1     | 46.1 | 26.4                   | 26th | 53.4 | 29th               | 22.8   | 22.2  | 22.5               | 89.0   | 86.8  |
| Year      | 29.857         | 48.4             | 47.5   | 48.0  | 41.9     | 55.0 | —                      | —    | —    | —                  | 28.5   | 28.9  | 28.7               | 82.1   | 85.4  |

## PRESTWICH near MANCHESTER

Long. 2° 17' W. Lat. 53° 32' N. Height above Mean Sea Level 294 feet.

| 1877.     | ins.   | °    | °    | °    | °    | °    | °    | °           | °    | in.  | in.  | in.  | %    | %  | %  |
|-----------|--------|------|------|------|------|------|------|-------------|------|------|------|------|------|----|----|
|           |        |      |      |      |      |      |      |             |      |      |      |      |      |    |    |
| January*  | 29.864 | 41.2 | 40.7 | 41.0 | 37.2 | 46.3 | 22.3 | 28th        | 53.3 | 15th | 22.7 | 22.2 | 22.5 | 89 | 88 |
| February  | 29.864 | 41.2 | 40.7 | 41.0 | 37.2 | 46.3 | 22.3 | 28th        | 53.3 | 15th | 22.7 | 22.2 | 22.5 | 89 | 88 |
| March     | 29.729 | 38.9 | 38.7 | 38.8 | 33.9 | 45.6 | 17.7 | 1st         | 54.4 | 30th | 19.6 | 20.6 | 20.1 | 84 | 88 |
| April     | 29.778 | 43.2 | 42.3 | 42.8 | 38.2 | 49.5 | 31.4 | 20th        | 55.7 | 8th  | 21.7 | 22.2 | 22.0 | 78 | 83 |
| May       | 29.873 | 47.6 | 45.9 | 46.8 | 40.4 | 53.6 | 28.4 | 4th         | 63.6 | 31st | 23.6 | 24.4 | 24.0 | 71 | 79 |
| June      | 29.978 | 58.6 | 56.2 | 57.4 | 49.5 | 66.1 | 40.8 | 24th        | 77.1 | 18th | 34.0 | 34.7 | 34.4 | 69 | 76 |
| July      | 29.852 | 57.0 | 55.1 | 56.1 | 50.7 | 63.4 | 43.1 | 8th         | 71.5 | 30th | 37.7 | 37.4 | 37.6 | 81 | 86 |
| August    | 29.826 | 58.4 | 56.1 | 57.3 | 51.7 | 64.5 | 42.2 | 24th        | 74.2 | 6th  | 39.4 | 40.1 | 39.8 | 80 | 88 |
| September | 30.070 | 52.0 | 50.5 | 51.3 | 44.7 | 58.1 | 34.7 | 22nd        | 65.8 | 11th | 30.8 | 31.9 | 31.4 | 79 | 87 |
| October   | 29.938 | 48.2 | 46.8 | 47.5 | 41.7 | 55.8 | 32.2 | 18th        | 66.2 | 14th | 28.5 | 28.2 | 28.4 | 86 | 88 |
| November  | 29.551 | 42.3 | 43.6 | 43.0 | 39.0 | 49.3 | 30.5 | 25th        | 57.2 | 15th | 24.9 | 25.9 | 25.4 | 92 | 91 |
| December  | 29.970 | 39.0 | 39.4 | 39.2 | 35.6 | 44.2 | 28.6 | 25th & 26th | 50.5 | 6th  | 22.6 | 22.6 | 22.6 | 95 | 94 |
| Year      | —      | —    | —    | —    | —    | —    | —    | —           | —    | —    | —    | —    | —    | —  | —  |

\* Observations were not commenced till January 13th.

## KELSTERN

Long. 0° 7' W. Lat. 53° 24' N. Height above Mean Sea Level, 388 feet.

| 1877.     | ins.   | °    | °    | °    | °    | °    | °    | °    | °    | in.  | in.  | in.  | %    | %    | %    |
|-----------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|           |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| January   | 29.788 | 38.5 | 38.4 | 38.5 | 34.3 | 44.7 | 27.8 | 27th | 54.7 | 19th | 22.8 | 22.5 | 22.7 | 95.8 | 94.9 |
| February  | 29.845 | 39.5 | 38.4 | 39.0 | 34.5 | 46.2 | 18.9 | 28th | 55.1 | 14th | 23.5 | 22.8 | 23.2 | 94.0 | 94.4 |
| March     | 29.734 | 37.8 | 36.7 | 37.3 | 32.3 | 45.5 | 18.8 | 23rd | 54.6 | 28th | 21.0 | 20.6 | 20.8 | 91.2 | 92.4 |
| April     | 29.808 | 43.2 | 40.8 | 42.0 | 37.9 | 48.2 | 31.3 | 25th | 59.2 | 4th  | 24.9 | 24.4 | 24.7 | 88.9 | 94.8 |
| May       | 29.886 | 47.3 | 43.4 | 45.4 | 39.2 | 52.4 | 28.0 | 4th  | 63.5 | 31st | 29.7 | 27.7 | 28.7 | 90.0 | 96.3 |
| June      | 30.006 | 59.2 | 54.4 | 56.8 | 48.1 | 65.8 | 40.8 | 8th  | 75.8 | 29th | 41.4 | 39.5 | 40.5 | 82.4 | 92.7 |
| July      | 29.864 | 60.3 | 55.4 | 57.9 | 50.0 | 66.9 | 41.1 | 8th  | 78.1 | 29th | 42.7 | 40.8 | 41.8 | 81.6 | 91.8 |
| August    | 29.840 | 59.2 | 55.5 | 57.4 | 51.1 | 66.0 | 38.0 | 24th | 74.7 | 20th | 44.1 | 42.4 | 43.3 | 87.1 | 94.6 |
| September | 30.071 | 52.7 | 47.6 | 50.2 | 43.4 | 58.8 | 37.1 | 25th | 67.2 | 11th | 34.6 | 32.2 | 33.4 | 87.1 | 96.4 |
| October   | 29.966 | 47.9 | 45.1 | 46.5 | 39.9 | 54.5 | 26.2 | 18th | 66.1 | 14th | 29.3 | 27.9 | 28.6 | 87.0 | 91.5 |
| November  | 29.599 | 41.6 | 41.2 | 41.4 | 36.6 | 48.4 | 29.2 | 24th | 56.0 | 7th  | 24.4 | 24.6 | 24.5 | 91.4 | 93.3 |
| December  | 29.987 | 36.6 | 37.4 | 37.0 | 33.3 | 42.3 | 23.9 | 27th | 48.8 | 29th | 20.8 | 21.6 | 21.2 | 94.8 | 94.6 |
| Year      | 29.866 | 47.0 | 44.5 | 45.8 | 40.1 | 53.3 | —    | —    | —    | —    | 29.9 | 28.9 | 29.4 | 89.3 | 94.0 |

## MONTHLY SUMMARIES.—WAKEFIELD—PRESTWICH—KELSTERN.

## WAKEFIELD.

Thermometers 4 feet 8 inches above ground. Rain-gauge 1 foot above ground.

Thermometers 4 feet 6 inches above ground.

| 1877.       | Amount of Cloud. |        |       | Rainfall.  |            |      | Weather, No. of Days of |       |       |                 |            |           |       |    | Wind, No. of Observations of |    |      |    |      |     |      |       |  |  |
|-------------|------------------|--------|-------|------------|------------|------|-------------------------|-------|-------|-----------------|------------|-----------|-------|----|------------------------------|----|------|----|------|-----|------|-------|--|--|
|             | 9 a.m.           | 9 p.m. | Mean. | Total.     | Max.       | Day. | Rain.                   | Snow. | Hail. | Thunder Storms. | Clear Sky. | Overcast. | Gale. | N. | N.E.                         | E. | S.E. | S. | S.W. | W.  | N.W. | Calm. |  |  |
|             |                  |        |       |            |            |      |                         |       |       |                 |            |           |       |    |                              |    |      |    |      |     |      |       |  |  |
| January -   | 6.5              | —      | —     | ins. 3.490 | ins. 1.060 | 3rd  | 22                      | 0     | 0     | 0               | 0          | 0         | 0     | 4  | 2                            | 5  | 6    | 19 | 10   | 14  | 2    | *0    |  |  |
| February -  | 6.1              | —      | —     | 1.800      | .580       | 25th | 20                      | 0     | 0     | 0               | 0          | 0         | 0     | 5  | 0                            | 0  | 0    | 5  | 15   | 21  | 10   | *0    |  |  |
| March -     | 6.6              | 6.4    | 6.5   | 3.210      | .670       | 24th | 18                      | 1     | 2     | 1               | 2          | 13        | 0     | 6  | 4                            | 4  | 4    | 8  | 6    | 21  | 9    | *0    |  |  |
| April -     | 8.5              | 7.0    | 7.8   | 3.230      | .800       | 22nd | 17                      | 0     | 1     | 1               | 2          | 16        | 0     | 11 | 7                            | 8  | 1    | 2  | 8    | 6   | 1    | 18    |  |  |
| May -       | 7.3              | 6.7    | 7.0   | 2.470      | .550       | 16th | 15                      | 0     | 0     | 1               | 3          | 10        | 1     | 1  | 5                            | 11 | 1    | 7  | 7    | 13  | 0    | 15    |  |  |
| June -      | 6.3              | 4.7    | 5.5   | 1.750      | .470       | 1st  | 10                      | 0     | 0     | 1               | 3          | 10        | 1     | 1  | 0                            | 0  | 0    | 5  | 12   | 29  | 3    | 12    |  |  |
| July -      | 7.7              | 6.2    | 7.0   | 2.920      | .880       | 14th | 18                      | 0     | 0     | 2               | 1          | 12        | 0     | 1  | 0                            | 0  | 0    | 5  | 12   | 29  | 3    | 12    |  |  |
| August -    | 6.7              | 7.4    | 7.1   | 4.060      | .750       | 25th | 19                      | 0     | 0     | 3               | 1          | 12        | 0     | 4  | 2                            | 2  | 1    | 10 | 8    | 14  | 8    | 13    |  |  |
| September - | 5.3              | 5.6    | 5.5   | 2.610      | .970       | 2nd  | 12                      | 0     | 0     | 0               | 3          | 7         | 1     | 8  | 5                            | 3  | 1    | 0  | 6    | 8   | 8    | 21    |  |  |
| October -   | 5.8              | 4.4    | 5.1   | 2.930      | .690       | 23rd | 17                      | 0     | 0     | 0               | 4          | 6         | 0     | 2  | 0                            | 0  | 2    | 7  | 11   | 14  | 2    | 24    |  |  |
| November -  | 4.9              | 5.0    | 5.0   | 2.170      | .460       | 21st | 19                      | 0     | 5     | 1               | 5          | 7         | 1     | 0  | 1                            | 0  | 2    | 11 | 17   | 10  | 0    | 19    |  |  |
| December -  | 6.7              | 6.1    | 6.4   | 2.370      | .810       | 30th | 17                      | 2     | 0     | 0               | 2          | 10        | 0     | 3  | 0                            | 0  | 0    | 3  | 11   | 20  | 6    | 19    |  |  |
| Year -      | 6.5              | —      | —     | 33.010     | —          | —    | 204                     | 3     | 9     | 11              | 24         | 108       | 4     | 48 | 35                           | 46 | 26   | 79 | 113  | 171 | 50   | 162   |  |  |

\* NOTE.—During January, February, and March the force of the wind was not observed; it is probable that sometimes when there was no wind the direction of the vane was entered.

## PRESTWICH near MANCHESTER.

Thermometers 4 feet 8 inches above ground. Rain-gauge 1 foot above ground.

| Thermometers 4 feet 8 inches above ground |   |     |     |      |       |       |      |    |   |   |   |    |    |   |    |    |    |   |    |    |
|-------------------------------------------|---|-----|-----|------|-------|-------|------|----|---|---|---|----|----|---|----|----|----|---|----|----|
|                                           |   |     |     | ins. | ins.  |       |      |    |   |   |   |    |    |   |    |    |    |   |    |    |
| January*-                                 | - | -   | -   | -    | -     | 25th  | 20   | 5  | 4 | 0 | 1 | 16 | 0  | 2 | 0  | 0  | 2  | 8 | 9  | 17 |
| February -                                | - | 8.1 | 6.9 | 7.5  | 4.499 | 1.200 | 29th | 21 | 4 | 3 | 1 | 3  | 14 | 0 | 6  | 6  | 0  | 8 | 6  | 7  |
| March -                                   | - | 6.9 | 7.0 | 7.0  | 2.968 | .630  | 4th  | 16 | 0 | 0 | 2 | 1  | 17 | 0 | 1  | 9  | 18 | 9 | 10 | 2  |
| April -                                   | - | 8.4 | 7.3 | 7.9  | 1.794 | .350  | 16th | 16 | 0 | 1 | 2 | 1  | 20 | 0 | 11 | 10 | 10 | 6 | 5  | 4  |
| May -                                     | - | 8.0 | 8.1 | 8.1  | 3.152 | .525  | 26th | 13 | 0 | 1 | 2 | 3  | 14 | 0 | 2  | 5  | 8  | 3 | 10 | 14 |
| June -                                    | - | 7.0 | 6.8 | 6.9  | 2.156 | .700  | 22nd | 22 | 0 | 2 | 2 | 0  | 23 | 0 | 0  | 1  | 0  | 2 | 17 | 9  |
| July -                                    | - | 9.3 | 7.9 | 8.6  | 6.037 | 1.860 | 8th  | 24 | 0 | 0 | 5 | 0  | 13 | 0 | 2  | 4  | 9  | 2 | 14 | 8  |
| August -                                  | - | 7.1 | 7.5 | 7.3  | 4.602 | .825  | 14th | 12 | 0 | 0 | 2 | 2  | 8  | 0 | 13 | 8  | 4  | 2 | 6  | 0  |
| September -                               | - | 6.7 | 5.0 | 5.9  | 2.654 | 1.060 | 20th | 21 | 0 | 5 | 1 | 5  | 12 | 0 | 9  | 2  | 2  | 5 | 17 | 6  |
| October -                                 | - | 6.1 | 5.5 | 5.8  | 4.868 | .710  | 30th | 23 | 0 | 3 | 2 | 1  | 9  | 0 | 0  | 3  | 0  | 8 | 23 | 9  |
| November -                                | - | 6.5 | 6.6 | 6.6  | 6.430 | 1.140 | 30th | 23 | 0 | 0 | 0 | 0  | 16 | 0 | 2  | 7  | 0  | 5 | 10 | 11 |
| December -                                | - | 7.8 | 7.0 | 7.4  | 3.745 | .690  |      |    | 4 | 4 |   |    |    |   |    |    |    |   |    |    |
| Year                                      | - | -   | -   | -    | -     | -     | -    | -  | - | - | - | -  | -  | - | -  | -  | -  | - | -  | -  |



## LLANDUDNO

Long. 3° 50' W. Lat. 53° 20' N. Height above Mean Sea Level, 89 feet.

| 1877.     | Mean Pressure. | Air Temperature. |        |       |          |      |                        |      |      |      | Tension of Vapour. |        |       | Relative Humidity. |        |       |
|-----------|----------------|------------------|--------|-------|----------|------|------------------------|------|------|------|--------------------|--------|-------|--------------------|--------|-------|
|           |                | 9 a.m.           | 9 p.m. | Mean. | Means of |      | Absolute Min. and Max. |      |      |      | 9 a.m.             | 9 p.m. | Mean. | 9 a.m.             | 9 p.m. | Mean. |
|           |                |                  |        |       | Min.     | Max. | Min.                   | Day. | Max. | Day. |                    |        |       |                    |        |       |
| At 32° F. | ins.           |                  |        |       |          |      |                        |      |      |      | in.                | in.    | in.   | %                  | %      | %     |
| 29.613    | 29.723         | 43.6             | 43.4   | 43.5  | 38.5     | 49.2 | 31.0                   | 12th | 56.2 | 19th | 233                | 231    | 232   | 82                 | 82     | 82    |
| 779       | 890            | 45.1             | 44.0   | 44.6  | 41.1     | 49.0 | 28.5                   | 28th | 56.0 | 2nd  | 251                | 241    | 246   | 83                 | 84     | 84    |
| 625       | 735            | 44.2             | 42.0   | 43.1  | 37.2     | 48.9 | 26.3                   | 1st  | 54.5 | 29th | 233                | 229    | 231   | 80                 | 86     | 83    |
| 637       | 747            | 46.7             | 44.3   | 45.5  | 40.5     | 51.8 | 34.5                   | 20th | 59.8 | 22nd | 246                | 244    | 245   | 77                 | 84     | 80    |
| 762       | 861            | 50.9             | 47.0   | 48.9  | 43.1     | 57.3 | 34.0                   | 4th  | 68.5 | 8th  | 272                | 262    | 267   | 73                 | 81     | 77    |
| 857       | 965            | 60.8             | 57.4   | 59.1  | 52.9     | 67.4 | 47.0                   | 24th | 80.9 | 21st | 369                | 365    | 367   | 69                 | 77     | 73    |
| 760       | 867            | 60.4             | 57.0   | 58.7  | 54.3     | 66.4 | 47.0                   | 6th  | 74.1 | 30th | 407                | 393    | 400   | 77                 | 85     | 81    |
| 715       | 822            | 60.4             | 57.3   | 58.9  | 54.1     | 66.2 | 47.0                   | 23rd | 74.4 | 6th  | 413                | 401    | 407   | 78                 | 85     | 82    |
| 966       | 975            | 55.9             | 52.7   | 54.3  | 49.2     | 60.1 | 42.5                   | 8th  | 68.9 | 10th | 355                | 342    | 349   | 79                 | 86     | 82    |
| 823       | 933            | 52.9             | 50.5   | 51.7  | 46.3     | 58.0 | 37.3                   | 18th | 69.0 | 14th | 324                | 306    | 315   | 81                 | 83     | 82    |
| 428       | 537            | 46.8             | 47.0   | 46.9  | 42.9     | 52.4 | 35.0                   | 24th | 62.0 | 15th | 264                | 267    | 266   | 82                 | 83     | 83    |
| 29.874    | 29.985         | 43.5             | 43.7   | 43.6  | 39.7     | 48.1 | 33.6                   | 28th | 55.5 | 12th | 243                | 238    | 240   | 86                 | 84     | 85    |
| 29.736    | Year           | 29.845           | 50.9   | 48.9  | 49.9     | 45.0 | 56.2                   | —    | —    | —    | 301                | 293    | 297   | 78.9               | 83.3   | 81.1  |

## BUXTON

Long. 1° 54' W. Lat. 53° 14' N. Height above Mean Sea Level, 987 feet.

| 1877.     | Mean Pressure. | Air Temperature. |        |       |          |      |                        |      |      |      | Tension of Vapour. |        |       | Relative Humidity. |        |       |
|-----------|----------------|------------------|--------|-------|----------|------|------------------------|------|------|------|--------------------|--------|-------|--------------------|--------|-------|
|           |                | 9 a.m.           | 9 p.m. | Mean. | Means of |      | Absolute Min. and Max. |      |      |      | 9 a.m.             | 9 p.m. | Mean. | 9 a.m.             | 9 p.m. | Mean. |
|           |                |                  |        |       | Min.     | Max. | Min.                   | Day. | Max. | Day. |                    |        |       |                    |        |       |
| At 32° F. | ins.           |                  |        |       |          |      |                        |      |      |      | in.                | in.    | in.   | %                  | %      | %     |
| 28.693    | 29.789         | 38.1             | 38.4   | 38.3  | 33.1     | 43.8 | 21.0                   | 12th | 52.3 | 19th | 205                | 204    | 205   | 87.2               | 86.6   | 86.9  |
| 787       | 884            | 39.8             | 39.1   | 39.5  | 35.9     | 43.8 | 20.0                   | 28th | 50.9 | 14th | 219                | 209    | 214   | 86.2               | 84.8   | 85.5  |
| 659       | 756            | 38.1             | 36.6   | 37.4  | 31.5     | 43.5 | 19.0                   | 21st | 55.0 | 3rd  | 194                | 189    | 192   | 83.1               | 85.3   | 84.2  |
| 702       | 793            | 41.6             | 40.2   | 40.9  | 35.7     | 47.2 | 30.1                   | 21st | 53.1 | 22nd | 233                | 224    | 229   | 87.9               | 88.6   | 88.3  |
| 796       | 882            | 45.7             | 42.5   | 44.1  | 37.4     | 51.4 | 22.0                   | 6th  | 59.5 | 31st | 251                | 238    | 245   | 81.3               | 86.2   | 83.8  |
| 930       | 995            | 57.3             | 53.6   | 55.5  | 46.6     | 63.9 | 40.0                   | 7th  | 78.9 | 19th | 324                | 331    | 328   | 69.7               | 80.5   | 75.1  |
| 810       | 872            | 56.1             | 53.2   | 54.7  | 48.9     | 61.3 | 39.9                   | 5th  | 71.7 | 30th | 359                | 355    | 357   | 79.5               | 86.4   | 83.0  |
| 780       | 839            | 56.4             | 54.3   | 55.4  | 49.7     | 62.5 | 42.2                   | 23rd | 70.1 | 5th  | 383                | 379    | 381   | 84.2               | 88.9   | 86.6  |
| 998       | 979            | 50.9             | 47.5   | 49.2  | 42.7     | 57.0 | 33.5                   | 25th | 64.1 | 16th | 307                | 289    | 298   | 82.3               | 87.0   | 84.7  |
| 883       | 970            | 46.3             | 43.6   | 45.0  | 38.8     | 53.2 | 29.0                   | 18th | 62.9 | 14th | 280                | 254    | 267   | 88.7               | 88.2   | 88.5  |
| 513       | 29.595         | 41.7             | 41.5   | 41.6  | 37.0     | 47.6 | 27.7                   | 24th | 54*  | —    | 235                | 239    | 237   | 87.9               | 89.6   | 88.8  |
| 28.903    | 30.008         | 38.4             | 37.8   | 38.1  | 34.0     | 43.4 | 23.2                   | 26th | 48*  | —    | 210                | 205    | 208   | 89.3               | 89.1   | 89.2  |
| 28.788    | Year           | 29.872           | 45.9   | 44.0  | 45.0     | 39.3 | 52.1                   | —    | —    | —    | 267                | 260    | 264   | 83.9               | 86.8   | 85.4  |

\* Maximum thermometer out of order.

## CHEADLE, STAFFORD

Long. 1° 57' W. Lat. 52° 58' N. Height above Mean Sea Level, 646 feet.

| 1877.     | Mean Pressure. | Air Temperature. |        |       |          |      |                        |      |      |      | Tension of Vapour. |        |       | Relative Humidity. |        |       |
|-----------|----------------|------------------|--------|-------|----------|------|------------------------|------|------|------|--------------------|--------|-------|--------------------|--------|-------|
|           |                | 9 a.m.           | 9 p.m. | Mean. | Means of |      | Absolute Min. and Max. |      |      |      | 9 a.m.             | 9 p.m. | Mean. | 9 a.m.             | 9 p.m. | Mean. |
|           |                |                  |        |       | Min.     | Max. | Min.                   | Day. | Max. | Day. |                    |        |       |                    |        |       |
| At 32° F. | ins.           |                  |        |       |          |      |                        |      |      |      | in.                | in.    | in.   | %                  | %      | %     |
| 29.066    | 29.778         | 38.8             | 39.8   | 39.3  | 34.8     | 44.8 | 29.0                   | 12th | 52.7 | 19th | 216                | 217    | 217   | 92                 | 89     | 91    |
| 180       | 893            | 39.8             | 40.4   | 40.1  | 35.4     | 45.7 | 22.3                   | 28th | 52.2 | 14th | 217                | 224    | 220   | 89                 | 89     | 89    |
| 032       | 745            | 37.9             | 38.0   | 38.0  | 32.5     | 44.7 | 22.0                   | 1st  | 53.9 | 30th | 199                | 203    | 201   | 87                 | 89     | 88    |
| 073       | 782            | 42.3             | 41.1   | 41.7  | 37.1     | 48.5 | 31.1                   | 20th | 55.1 | 22nd | 222                | 224    | 223   | 82                 | 87     | 84    |
| 175       | 881            | 46.3             | 44.4   | 45.3  | 38.8     | 53.0 | 28.3                   | 4th  | 61.0 | 31st | 240                | 238    | 239   | 76                 | 81     | 79    |
| 312       | 904            | 56.8             | 55.9   | 56.4  | 47.9     | 65.1 | 39.0                   | 24th | 76.6 | 18th | 346                | 342    | 344   | 75                 | 77     | 76    |
| 190       | 880            | 56.8             | 55.1   | 55.9  | 49.7     | 62.8 | 42.2                   | 8th  | 74.1 | 30th | 381                | 377    | 379   | 82                 | 87     | 84    |
| 159       | 848            | 56.8             | 54.8   | 55.8  | 50.2     | 63.7 | 42.0                   | 24th | 73.2 | 20th | 394                | 394    | 394   | 85                 | 92     | 89    |
| 380       | 903            | 50.7             | 48.9   | 49.8  | 44.2     | 57.4 | 33.8                   | 21st | 61.6 | 28th | 306                | 308    | 307   | 83                 | 89     | 86    |
| 29.273    | 29.980         | 46.8             | 45.7   | 46.3  | 40.8     | 53.6 | 31.9                   | 18th | 64.9 | 14th | 284                | 268    | 276   | 88                 | 87     | 87    |
| 28.908    | 29.605         | 41.1             | 42.3   | 41.7  | 36.6     | 48.0 | 29.4                   | 25th | 55.1 | 15th | 238                | 246    | 242   | 92                 | 91     | 92    |
| 29.296    | 30.015         | 37.8             | 38.1   | 37.9  | 34.4     | 42.9 | 24.8                   | 26th | 49.5 | 6th  | 213                | 212    | 213   | 94                 | 92     | 93    |
| 29.170    | Year           | 29.875           | 46.0   | 45.4  | 45.7     | 40.2 | 52.5                   | —    | —    | —    | 271                | 271    | 271   | 85.4               | 87.5   | 86.5  |

## LLANDUDNO.

Thermometers 4 feet above ground. Rain-gauge 1 foot above ground.

| Thermometers 4 feet above ground |                  |        |       |           |       |      |                         |       |       |                 |            |           |       |    | Wind, No. of Observations of |     |      |    |      |     |      |       |   |
|----------------------------------|------------------|--------|-------|-----------|-------|------|-------------------------|-------|-------|-----------------|------------|-----------|-------|----|------------------------------|-----|------|----|------|-----|------|-------|---|
| 1877.                            | Amount of Cloud. |        |       | Rainfall. |       |      | Weather, No. of Days of |       |       |                 |            |           |       | N. | N.E.                         | E.  | S.E. | S. | S.W. | W.  | N.W. | Calm. |   |
|                                  | 9 a.m.           | 9 p.m. | Mean. | Total.    | Max.  | Day. | Rain.                   | Snow. | Hail. | Thunder Storms. | Clear Sky. | Overcast. | Gale. |    |                              |     |      |    |      |     |      |       |   |
| January -                        | 6.1              | 6.4    | 6.3   | ins.      | 5.140 | 16th | 24                      | 2     | 2     | 0               | 4          | 9         | 2     | 0  | 1                            | 5   | 2    | 5  | 16   | 27  | 6    | 0     |   |
| February -                       | 7.1              | 6.6    | 6.8   | 4.140     | .910  | 25th | 22                      | 2     | 5     | 0               | 1          | 12        | 0     | 14 | 0                            | 0   | 0    | 2  | 5    | 32  | 3    | 0     |   |
| March -                          | 5.9              | 6.2    | 6.1   | 2.620     | .370  | 9th  | 21                      | 1     | 4     | 0               | 5          | 11        | 2     | 8  | 1                            | 10  | 1    | 1  | 6    | 30  | 5    | 0     |   |
| April -                          | 7.7              | 6.8    | 7.2   | 2.600     | .475  | 8th  | 15                      | 0     | 2     | 0               | 1          | 14        | 0     | 3  | 2                            | 26  | 9    | 7  | 4    | 7   | 2    | 0     |   |
| May -                            | 6.5              | 5.1    | 5.8   | 2.315     | .552  | 10th | 13                      | 0     | 0     | 2               | 7          | 10        | 2     | 3  | 5                            | 31  | 3    | 6  | 3    | 11  | 0    | 0     |   |
| June -                           | 6.6              | 7.1    | 6.9   | 1.590     | .325  | 18th | 11                      | 0     | 0     | 1               | 4          | 16        | 1     | 3  | 6                            | 11  | 3    | 4  | 9    | 22  | 2    | 0     |   |
| July -                           | 8.4              | 8.0    | 8.2   | 5.280     | 1.650 | 15th | 19                      | 0     | 3     | 3               | 1          | 22        | 0     | 2  | 1                            | 1   | 0    | 1  | 7    | 42  | 8    | 0     |   |
| August -                         | 7.5              | 5.7    | 6.6   | 5.770     | 1.025 | 21st | 22                      | 0     | 0     | 0               | 1          | 6         | 14    | 1  | 6                            | 3   | 6    | 9  | 5    | 6   | 21   | 6     | 0 |
| September -                      | 7.2              | 5.1    | 6.1   | 4.295     | 1.780 | 14th | 15                      | 0     | 0     | 0               | 5          | 12        | 2     | 7  | 9                            | 11  | 4    | 3  | 5    | 17  | 4    | 0     |   |
| October -                        | 6.6              | 5.5    | 6.1   | 3.365     | .586  | 22nd | 16                      | 0     | 3     | 0               | 4          | 11        | 5     | 2  | 2                            | 3   | 1    | 5  | 13   | 32  | 4    | 0     |   |
| November -                       | 7.4              | 5.3    | 6.3   | 6.350     | .890  | 11th | 22                      | 0     | 4     | 1               | 3          | 11        | 1     | 0  | 0                            | 1   | 0    | 9  | 18   | 25  | 7    | 0     |   |
| December -                       | 7.8              | 6.0    | 6.9   | 3.875     | 1.030 | 30th | 23                      | 1     | 8     | 0               | 2          | 15        | 0     | 2  | 1                            | 5   | 2    | 5  | 12   | 24  | 11   | 0     |   |
| Year -                           | 7.1              | 6.2    | 6.6   | 47.340    | —     | —    | 223                     | 6     | 31    | 8               | 43         | 157       | 16    | 50 | 31                           | 110 | 34   | 53 | 104  | 290 | 58   | 0     |   |

## BUXTON.

Thermometers 4 feet above ground. Rain-gauge 1 foot above ground.

| Thermometers 4 feet above ground. |  |  |  |  |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Days of Year. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                                   |  |  |  |  | ins. | ins. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

## HILLINGTON, NORFOLK

Long.  $0^{\circ} 33' \text{ E.}$  Lat.  $52^{\circ} 48' \text{ N.}$  Height above Mean Sea Level, 88 feet.

| 1877.       | Mean Pressure. | Air Temperature. |        |       |          |       |                        |      |       | Tension of Vapour. |        |        | Relative Humidity. |        |        |       |
|-------------|----------------|------------------|--------|-------|----------|-------|------------------------|------|-------|--------------------|--------|--------|--------------------|--------|--------|-------|
|             |                | 9 a.m.           | 9 p.m. | Mean. | Means of |       | Absolute Min. and Max. |      |       |                    | 9 a.m. | 9 p.m. | Mean.              | 9 a.m. | 9 p.m. | Mean. |
|             |                |                  |        |       | Min.     | Max.  | Min.                   | Day. | Max.  | Day.               |        |        |                    |        |        |       |
|             | ins.           |                  |        |       |          |       |                        |      |       |                    | in.    | in.    | in.                | %      | %      | %     |
| January -   | 29°808         | 40°·2            | 39°·9  | 40°·1 | 34°·9    | 46°·4 | 25°·2                  | 27th | 56°·1 | 19th               | ·232   | ·235   | ·234               | 91°·5  | 92°·7  | 92°·1 |
| February -  | ·850           | 41°·4            | 41°·2  | 41°·3 | 36°·7    | 47°·5 | 25°·0                  | 28th | 54°·8 | 14th               | ·245   | ·237   | ·241               | 91°·9  | 89°·8  | 90°·9 |
| March -     | ·725           | 39°·5            | 38°·2  | 38°·9 | 33°·0    | 46°·9 | 22°·3                  | 11th | 55°·3 | 28th               | ·220   | ·212   | ·216               | 88°·7  | 89°·5  | 89°·1 |
| April -     | ·793           | 46°·1            | 42°·4  | 44°·3 | 38°·2    | 51°·7 | 27°·2                  | 25th | 60°·9 | 20th               | ·266   | ·255   | ·261               | 85°·0  | 92°·7  | 88°·9 |
| May -       | 29°894         | 50°·3            | 44°·4  | 47°·4 | 39°·0    | 56°·9 | 24°·4                  | 6th  | 69°·3 | 31st               | ·286   | ·268   | ·277               | 78°·2  | 89°·8  | 84°·0 |
| June -      | 30°032         | 63°·2            | 56°·0  | 59°·6 | 48°·5    | 72°·3 | 40°·1                  | 8th  | 82°·1 | 29th               | ·407   | ·387   | ·397               | 70°·6  | 86°·0  | 78°·3 |
| July -      | 29°863         | 62°·0            | 57°·8  | 59°·9 | 50°·6    | 69°·6 | 37°·7                  | 8th  | 81°·6 | 31st               | ·438   | ·427   | ·433               | 79°·0  | 88°·8  | 83°·9 |
| August -    | 29°840         | 61°·7            | 57°·3  | 59°·5 | 51°·6    | 71°·3 | 36°·8                  | 24th | 79°·5 | 20th               | ·442   | ·433   | ·438               | 80°·2  | 91°·3  | 85°·8 |
| September - | 30°049         | 55°·2            | 48°·3  | 51°·8 | 43°·1    | 62°·1 | 33°·4                  | 27th | 71°·6 | 11th               | ·371   | ·329   | ·350               | 85°·1  | 96°·0  | 90°·6 |
| October -   | 30°002         | 49°·8            | 45°·4  | 47°·6 | 38°·9    | 57°·6 | 21°·5                  | 19th | 69°·1 | 14th               | ·316   | ·281   | ·299               | 87°·5  | 90°·7  | 89°·1 |
| November -  | 29°625         | 42°·8            | 42°·3  | 42°·6 | 36°·4    | 49°·9 | 25°·3                  | 24th | 57°·7 | 6th                | ·261   | ·259   | ·260               | 93°·0  | 93°·9  | 93°·5 |
| December -  | 29°981         | 37°·8            | 38°·2  | 38°·0 | 33°·7    | 44°·0 | 22°·1                  | 26th | 51°·7 | 29th               | ·221   | ·223   | ·222               | 95°·7  | 94°·8  | 95°·3 |
| Year -      | —              | 49°·2            | 46°·0  | 47°·6 | 40°·4    | 56°·4 | —                      | —    | —     | —                  | ·309   | ·296   | ·303               | 85°·5  | 91°·3  | 88°·4 |

\* Barometer out of order during part of the month.

## LEICESTER

Long.  $1^{\circ} 8' \text{ W.}$  Lat.  $52^{\circ} 39' \text{ N.}$  Height above Mean Sea Level, 237 feet.

|           |   | ins.    |       |       |       |       |       |       |      |       |      | in.   | in.   | in.   | %     | %     | %     |
|-----------|---|---------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|
| January   | - | 29° 797 | 41° 6 | 41° 4 | 41° 5 | 37° 3 | 47° 4 | 29° 9 | 12th | 56° 8 | 19th | ° 233 | ° 226 | ° 230 | 90    | 88    | 89    |
| February  | - | ° 892   | 43° 0 | 43° 0 | 43° 0 | 38° 5 | 48° 1 | 22° 8 | 28th | 56° 2 | 14th | ° 234 | ° 238 | ° 236 | 84    | 86    | 85    |
| March     | - | ° 749   | 39° 9 | 40° 7 | 40° 3 | 34° 9 | 47° 5 | 22° 0 | 1st  | 54° 7 | 30th | ° 200 | ° 211 | ° 206 | 81    | 84    | 83    |
| April     | - | ° 780   | 45° 2 | 44° 3 | 44° 8 | 39° 2 | 50° 9 | 32° 1 | 24th | 58° 8 | 22nd | ° 237 | ° 241 | ° 239 | 79    | 82    | 81    |
| May       | - | ° 877   | 49° 2 | 48° 3 | 48° 8 | 41° 0 | 55° 4 | 28° 5 | 4th  | 66° 0 | 31st | ° 253 | ° 257 | ° 255 | 72    | 76    | 74    |
| June      | - | ° 997   | 60° 7 | 60° 1 | 60° 4 | 49° 9 | 69° 1 | 41° 8 | 24th | 79° 4 | 18th | ° 357 | ° 363 | ° 360 | 67    | 70    | 69    |
| July      | - | ° 884   | 60° 4 | 59° 5 | 60° 0 | 52° 2 | 67° 0 | 44° 4 | 8th  | 77° 7 | 29th | ° 383 | ° 393 | ° 388 | 73    | 77    | 75    |
| August    | - | 29° 846 | 61° 1 | 59° 3 | 60° 2 | 53° 1 | 67° 5 | 42° 1 | 24th | 78° 2 | 20th | ° 398 | ° 403 | ° 401 | 74    | 80    | 77    |
| September | - | 30° 075 | 52° 7 | 51° 8 | 52° 3 | 45° 3 | 59° 7 | 35° 4 | 25th | 65° 0 | 12th | ° 317 | ° 328 | ° 323 | 80    | 85    | 83    |
| October   | - | 29° 992 | 47° 4 | 47° 9 | 47° 7 | 40° 9 | 56° 6 | 32° 0 | 18th | 68° 0 | 14th | ° 282 | ° 282 | ° 282 | 87    | 86    | 87    |
| November  | - | 29° 623 | 44° 0 | 44° 4 | 44° 2 | 39° 4 | 51° 1 | 32° 0 | 14th | 57° 9 | 9th  | ° 248 | ° 253 | ° 251 | 86    | 87    | 87    |
| December  | - | 30° 015 | 39° 4 | 40° 0 | 39° 7 | 35° 7 | 45° 1 | 26° 9 | 27th | 52° 3 | 6th  | ° 218 | ° 217 | ° 218 | 91    | 88    | 90    |
| Year      | - | 29° 877 | 48° 7 | 48° 4 | 48° 6 | 42° 3 | 55° 5 | —     | —    | —     | —    | ° 280 | ° 284 | ° 282 | 80° 3 | 82° 4 | 81° 4 |

## UPPINGHAM.

Long.  $0^{\circ} 44' W$ . Lat.  $52^{\circ} 35' N$ . Height above Mean Sea Level, 484 feet.

|           |   | ins.   |      |      |      |      |      |      |                |      |      | in.  | in.  | in.  | %    | %    | %    |
|-----------|---|--------|------|------|------|------|------|------|----------------|------|------|------|------|------|------|------|------|
| January   | - | 29°801 | 39°8 | 40°0 | 39°9 | 35°7 | 46°1 | 29°0 | 12th           | 54°3 | 19th | °230 | °223 | °227 | 91°6 | 88°5 | 90°1 |
| February  | - | °881   | 40°9 | 40°5 | 40°7 | 36°3 | 46°6 | 22°0 | 28th           | 54°7 | 14th | °234 | °226 | °230 | 88°9 | 87°0 | 88°0 |
| March     | - | °741   | 38°7 | 38°3 | 38°5 | 33°6 | 46°4 | 21°4 | 1st            | 55°1 | 30th | °207 | °205 | °206 | 86°7 | 86°3 | 86°5 |
| April     | - | °783   | 44°3 | 41°8 | 43°1 | 37°3 | 50°4 | 32°0 | 25th           | 60°5 | 22nd | °243 | °240 | °242 | 83°2 | 88°1 | 85°7 |
| May       | - | 29°276 | 48°2 | 44°6 | 46°4 | 39°0 | 55°7 | 27°0 | 4th            | 68°2 | 31st | °264 | °257 | °261 | 78°0 | 85°8 | 81°9 |
| June      | - | 30°003 | 60°3 | 56°3 | 58°3 | 47°4 | 70°1 | 40°1 | 24th           | 85°1 | 18th | °400 | °383 | °392 | 76°4 | 83°9 | 80°2 |
| July      | - | 29°882 | 60°1 | 56°3 | 58°2 | 50°5 | 66°8 | 42°3 | { 7th<br>8th } | 78°0 | 29th | °439 | °415 | °427 | 84°5 | 90°5 | 87°5 |
| August    | - | 29°848 | 60°3 | 56°2 | 58°3 | 51°3 | 68°0 | 41°5 | 23rd           | 77°9 | 10th | °418 | °407 | °413 | 79°8 | 88°6 | 84°2 |
| September | - | 30°069 | 52°5 | 48°9 | 50°7 | 43°8 | 59°8 | 35°2 | 25th           | 64°5 | 10th | °342 | °321 | °332 | 86°3 | 91°8 | 89°1 |
| October   | - | 29°992 | 47°4 | 45°7 | 46°6 | 40°2 | 55°8 | 31°0 | 18th           | 67°4 | 14th | °286 | °277 | °282 | 86°6 | 88°8 | 87°7 |
| November  | - | 29°632 | 42°6 | 42°2 | 42°4 | 37°5 | 49°3 | 31°4 | 24th           | 57°1 | 6th  | °252 | °255 | °254 | 90°9 | 92°9 | 91°9 |
| December  | - | 30°010 | 37°9 | 38°4 | 38°2 | 33°7 | 43°8 | 25°9 | 26th           | 51°3 | 29th | °217 | °222 | °220 | 93°6 | 93°7 | 93°7 |
| Year      | - | 29°877 | 47°8 | 45°8 | 46°8 | 40°5 | 54°9 | —    | —              | —    | —    | °294 | °286 | °290 | 85°5 | 88°8 | 87°2 |

MONTHLY SUMMARIES.—HILLINGTON—LEICESTER—UPPINGHAM.

- HILLINGTON, NORFOLK.

Thermometers 3 feet 6 inches above ground. Rain-gauge 1 foot above ground.

| Thermometers 3 feet 6 inches above ground. Rain-gauge 1 foot above ground. |        |        |       |            |            |      |                         |       |       |                 |            |           |       |    |                              |    |      |    |      |    |      |       |     |
|----------------------------------------------------------------------------|--------|--------|-------|------------|------------|------|-------------------------|-------|-------|-----------------|------------|-----------|-------|----|------------------------------|----|------|----|------|----|------|-------|-----|
| Amount of Cloud.                                                           |        |        |       | Rainfall.  |            |      | Weather, No. of Days of |       |       |                 |            |           |       |    | Wind, No. of Observations of |    |      |    |      |    |      |       |     |
| 1877.                                                                      |        |        |       | Total.     | Max.       | Day. | Rain.                   | Snow. | Hail. | Thunder Storms. | Clear Sky. | Overcast. | Gale. | N. | N.E.                         | E. | S.E. | S. | S.W. | W. | N.W. | Calm. |     |
|                                                                            | 9 a.m. | 9 p.m. | Mean. |            |            |      |                         |       |       |                 |            |           |       |    |                              |    |      |    |      |    |      |       |     |
| January -                                                                  | 7.5    | 6.1    | 6.8   | ins. 3.266 | ins. 1.050 | 3rd  | 23                      | 0     | 1     | 1               | 2          | 13        | 4     | 3  | 1                            | 6  | 4    | 7  | 23   | 6  | 7    | 5     | 23  |
| February -                                                                 | 7.6    | 5.9    | 6.8   | 2.774      | .460       | 20th | 20                      | 6     | 3     | 0               | 3          | 12        | 3     | 4  | 0                            | 0  | 0    | 3  | 10   | 14 | 24   | 1     | 20  |
| March -                                                                    | 8.2    | 7.0    | 7.6   | 1.934      | .310       | 21st | 23                      | 6     | 3     | 2               | 0          | 14        | 2     | 6  | 7                            | 0  | 9    | 4  | 13   | 6  | 16   | 1     | 23  |
| April -                                                                    | 8.3    | 7.7    | 8.0   | 2.293      | .548       | 21st | 16                      | 0     | 1     | 2               | 0          | 18        | 2     | 0  | 16                           | 7  | 16   | 7  | 6    | 2  | 6    | 0     | 16  |
| May -                                                                      | 7.7    | 6.6    | 7.2   | 1.393      | .307       | 19th | 16                      | 2     | 4     | 2               | 2          | 14        | 1     | 6  | 18                           | 4  | 8    | 2  | 16   | 3  | 3    | 2     | 16  |
| June -                                                                     | 7.7    | 6.6    | 7.2   | 1.393      | .307       | 30th | 11                      | 0     | 0     | 2               | 4          | 8         | 0     | 4  | 4                            | 12 | 8    | 2  | 25   | 3  | 2    | 0     | 9   |
| July -                                                                     | 5.3    | 5.5    | 5.4   | 1.550      | .535       | 30th | 11                      | 0     | 0     | 2               | 4          | 8         | 0     | 4  | 4                            | 12 | 8    | 2  | 25   | 3  | 2    | 0     | 9   |
| August -                                                                   | 5.3    | 5.5    | 5.4   | 1.550      | .535       | 14th | 17                      | 0     | 0     | 5               | 0          | 11        | 0     | 1  | 1                            | 0  | 1    | 4  | 26   | 14 | 15   | 0     | 17  |
| September -                                                                | 7.1    | 7.6    | 7.4   | 2.454      | .425       | 14th | 17                      | 0     | 0     | 5               | 0          | 14        | 0     | 1  | 6                            | 0  | 7    | 5  | 22   | 8  | 13   | 0     | 16  |
| October -                                                                  | 7.1    | 7.6    | 7.4   | 2.454      | .425       | 27th | 18                      | 0     | 0     | 3               | 0          | 14        | 0     | 1  | 6                            | 0  | 7    | 5  | 22   | 8  | 13   | 0     | 16  |
| November -                                                                 | 7.5    | 6.8    | 7.2   | 3.246      | 1.025      | 3rd  | 15                      | 0     | 1     | 0               | 1          | 7         | 1     | 10 | 11                           | 6  | 2    | 2  | 8    | 3  | 14   | 4     | 14  |
| December -                                                                 | 7.4    | 4.4    | 5.9   | 1.395      | .234       | 29th | 15                      | 0     | 0     | 0               | 10         | 6         | 1     | 4  | 2                            | 5  | 1    | 2  | 31   | 12 | 2    | 3     | 15  |
| Year                                                                       | 5.1    | 3.6    | 4.4   | 2.058      | .585       | 11th | 19                      | 0     | 1     | 0               | 5          | 9         | 2     | 0  | 1                            | 0  | 2    | 9  | 35   | 4  | 9    | 0     | 18  |
|                                                                            | 6.3    | 5.0    | 5.7   | 3.393      | .965       | 28th | 19                      | 5     | 0     | 0               | 5          | 15        | 0     | 3  | 5                            | 0  | 5    | 6  | 22   | 5  | 15   | 1     | 18  |
|                                                                            | 6.6    | 6.6    | 6.6   | 1.902      | .530       | —    | 212                     | 19    | 14    | 17              | 32         | 141       | 16    | 42 | 72                           | 40 | 63   | 53 | 237  | 80 | 126  | 17    | 205 |

LEICESTER.

Thermometers 4 feet above ground. Rain-gauge 1 foot above ground.

[illegible]

UPPINGHAM.

Thermometers 4 feet above ground. Rain-gauge 1 foot 2 inches above ground.

[illegible]



## OSCOTT

Long. 1° 51' W. Lat. 52° 33' N. Height above Mean Sea Level, 460 feet.

| 1877.       | Mean<br>Pressure. | Air Temperature. |        |       |          |      |                        |      |      |              | Tension of Vapour. |        |       | Relative Humidity. |        |       |
|-------------|-------------------|------------------|--------|-------|----------|------|------------------------|------|------|--------------|--------------------|--------|-------|--------------------|--------|-------|
|             |                   | 9 a.m.           | 9 p.m. | Mean. | Means of |      | Absolute Min. and Max. |      |      |              | 9 a.m.             | 9 p.m. | Mean. | 9 a.m.             | 9 p.m. | Mean. |
|             |                   |                  |        |       | Min.     | Max. | Min.                   | Day. | Max. | Day.         |                    |        |       |                    |        |       |
| January -   | ins.<br>29°784    | 39°7             | 40°5   | 40°1  | 36°2     | 46°8 | 29°2                   | 12th | 55°3 | 19th         | 23.1               | 23.0   | 23.1  | 92.4               | 89.7   | 91.1  |
| February -  | 899               | 41.6             | 41.2   | 41.4  | 37.5     | 47.6 | 23.0                   | 28th | 55.7 | 10th         | 23.3               | 23.1   | 23.2  | 85.8               | 86.3   | 86.1  |
| March -     | 748               | 39.0             | 38.9   | 39.0  | 33.7     | 47.5 | 21.3                   | 1st  | 56.7 | 28th<br>30th | 20.4               | 20.9   | 20.7  | 83.9               | 86.5   | 85.2  |
| April -     | 771               | 43.5             | 42.7   | 43.1  | 38.0     | 50.7 | 31.8                   | 26th | 60.8 | 22nd         | 24.4               | 24.6   | 24.5  | 85.9               | 88.9   | 87.4  |
| May -       | 872               | 47.6             | 45.9   | 46.8  | 40.2     | 55.4 | 27.3                   | 4th  | 65.5 | 31st         | 25.8               | 26.0   | 25.9  | 78.0               | 83.2   | 80.6  |
| June -      | 991               | 59.3             | 57.2   | 58.3  | 49.2     | 68.2 | 41.9                   | 24th | 79.6 | 29th         | 37.6               | 37.0   | 37.3  | 74.8               | 78.7   | 76.8  |
| July -      | 877               | 59.4             | 56.5   | 58.0  | 51.4     | 66.9 | 43.4                   | 8th  | 79.1 | 30th         | 40.7               | 40.7   | 40.7  | 80.1               | 88.1   | 84.1  |
| August -    | 29°835            | 59.6             | 56.5   | 58.1  | 51.8     | 66.7 | 43.0                   | 24th | 78.1 | 20th         | 42.5               | 42.5   | 42.5  | 83.1               | 91.9   | 87.5  |
| September - | 30°070            | 51.7             | 49.6   | 50.7  | 44.5     | 59.2 | 36.4                   | 22nd | 64.1 | 12th         | 33.1               | 32.4   | 32.8  | 86.1               | 90.5   | 88.3  |
| October -   | 29°977            | 47.5             | 46.6   | 47.1  | 40.7     | 56.5 | 32.0                   | 17th | 69.0 | 14th         | 29.4               | 28.4   | 28.9  | 88.9               | 88.6   | 88.8  |
| November -  | 29°606            | 42.5             | 42.5   | 42.5  | 38.3     | 49.8 | 31.0                   | 25th | 57.0 | 9th          | 25.2               | 25.9   | 25.6  | 91.1               | 93.1   | 92.1  |
| December -  | 30°016            | 38.5             | 38.8   | 38.7  | 34.6     | 44.3 | 25.8                   | 27th | 51.1 | 6th          | 22.3               | 22.3   | 22.3  | 94.1               | 92.7   | 93.4  |
| Year -      | 29°871            | 47.5             | 46.4   | 47.0  | 41.3     | 55.0 | —                      | —    | —    | —            | 29.0               | 28.9   | 29.0  | 85.4               | 88.2   | 86.8  |

## CHURCHSTOKE

Long. 3° 5' W. Lat. 52° 31' N. Height above Mean Sea Level, 548 feet.

at 32° F

|        |           |             |      |      |      |      |      |      |      |      |            |          |          |          |      |      |      |
|--------|-----------|-------------|------|------|------|------|------|------|------|------|------------|----------|----------|----------|------|------|------|
| 29.175 | January   | ins. 29.783 | 40.6 | 40.7 | 40.7 | 35.2 | 46.8 | 28.0 | 12th | 54.7 | 19th       | in. 23.2 | in. 22.8 | in. 23.0 | 89.8 | 88.7 | 89.3 |
| 326    | February  | 934         | 42.6 | 42.3 | 42.5 | 38.0 | 47.9 | 25.3 | 28th | 55.1 | 14th       | 24.0     | 23.9     | 24.0     | 86.3 | 86.5 | 86.4 |
| 457    | March     | 766         | 39.1 | 39.2 | 39.2 | 33.6 | 45.9 | 22.8 | 1st  | 54.6 | 2nd        | 20.8     | 20.9     | 20.9     | 85.4 | 86.0 | 85.7 |
| 165    | April     | 769         | 42.6 | 42.8 | 42.7 | 37.2 | 49.5 | 27.0 | 20th | 56.9 | 22nd       | 23.8     | 23.9     | 23.9     | 86.5 | 86.0 | 86.3 |
| 279    | May       | 29.883      | 47.0 | 44.8 | 45.9 | 39.1 | 54.3 | 28.5 | 3rd  | 67.2 | 31st       | 26.3     | 26.1     | 26.2     | 80.9 | 86.5 | 83.7 |
| 410    | June      | 30.001      | 57.7 | 56.5 | 57.1 | 49.4 | 66.5 | 40.6 | 24th | 76.3 | 19th       | 37.7     | 39.2     | 38.5     | 79.2 | 85.3 | 82.3 |
| 323    | July      | 29.912      | 58.5 | 54.9 | 56.7 | 50.7 | 63.3 | 40.2 | 7th  | 76.1 | 30th       | 42.2     | 40.2     | 41.2     | 85.5 | 92.1 | 88.8 |
| 282    | August    | 29.870      | 58.5 | 55.2 | 56.9 | 50.5 | 64.3 | 40.0 | 12th | 72.8 | 20th       | 43.2     | 41.0     | 42.1     | 87.8 | 93.0 | 90.4 |
| 492    | September | 30.094      | 51.4 | 48.5 | 50.0 | 42.5 | 58.1 | 33.1 | 22nd | 62.7 | 12th       | 32.5     | 31.0     | 31.8     | 85.1 | 90.0 | 87.6 |
| 398    | October   | 30.002      | 47.8 | 46.4 | 47.1 | 39.7 | 55.8 | 27.0 | 18th | 67.2 | 14th       | 30.4     | 29.1     | 29.8     | 90.4 | 90.8 | 90.6 |
| 014    | November  | 29.615      | 43.4 | 43.8 | 43.6 | 38.7 | 50.3 | 30.5 | 25th | 57.4 | 15th       | 25.2     | 25.9     | 25.6     | 88.7 | 88.9 | 88.8 |
| 29.426 | December  | 30.040      | 40.0 | 39.6 | 39.8 | 34.2 | 45.5 | 26.7 | 28th | 51.9 | 6th & 29th | 22.7     | 22.1     | 22.4     | 90.4 | 89.6 | 90.0 |
|        | Year      | 29.889      | 47.4 | 46.2 | 46.8 | 40.7 | 54.0 | —    | —    | —    | —          | 29.3     | 28.8     | 29.1     | 86.3 | 88.6 | 87.5 |

## HEREFORD

Long. 2° 45' W. Lat. 52° 5' N. Height above Mean Sea Level, 274 feet.

|   |           |             |      |      |      |      |      |      |      |      |      |          |          |          |      |      |      |
|---|-----------|-------------|------|------|------|------|------|------|------|------|------|----------|----------|----------|------|------|------|
| 2 | January   | ins. 29.786 | 41.1 | 41.8 | 41.5 | 36.6 | 48.5 | 28.1 | 12th | 55.4 | 19th | in. 23.7 | in. 23.4 | in. 23.6 | 90.3 | 87.2 | 88.8 |
|   | February  | 930         | 43.5 | 42.9 | 43.2 | 39.4 | 49.0 | 27.0 | 28th | 55.9 | 14th | 24.2     | 23.6     | 23.9     | 84.2 | 84.3 | 84.3 |
|   | March     | 760         | 41.2 | 39.9 | 40.6 | 34.8 | 47.6 | 21.9 | 1st  | 56.9 | 30th | 21.2     | 21.3     | 21.3     | 80.4 | 85.1 | 82.8 |
|   | April     | 756         | 44.8 | 43.8 | 44.3 | 38.8 | 51.7 | 28.2 | 20th | 59.1 | 22nd | 24.6     | 24.4     | 24.5     | 82.5 | 84.4 | 83.5 |
|   | May       | 869         | 49.7 | 46.7 | 48.2 | 40.4 | 56.3 | 26.4 | 5th  | 63.2 | 31st | 25.5     | 26.2     | 25.9     | 71.2 | 81.1 | 76.2 |
|   | June      | 992         | 59.7 | 57.9 | 58.8 | 50.9 | 68.3 | 41.7 | 24th | 78.4 | 18th | 38.6     | 37.7     | 38.2     | 75.7 | 78.1 | 76.9 |
|   | July      | 898         | 60.2 | 56.4 | 58.3 | 50.8 | 66.0 | 39.3 | 5th  | 78.1 | 29th | 38.8     | 38.9     | 38.9     | 74.1 | 84.7 | 79.4 |
|   | August    | 29.860      | 60.6 | 57.1 | 58.9 | 51.7 | 66.6 | 38.9 | 24th | 77.9 | 20th | 41.2     | 40.5     | 40.9     | 77.9 | 86.1 | 82.0 |
|   | September | 30.077      | 52.9 | 50.4 | 51.7 | 44.6 | 60.0 | 34.7 | 5th  | 64.9 | 15th | 32.5     | 31.4     | 32.0     | 80.9 | 85.3 | 83.1 |
|   | October   | 30.001      | 47.6 | 46.8 | 47.2 | 39.8 | 57.2 | 23.4 | 18th | 66.0 | 14th | 29.0     | 27.6     | 28.3     | 86.8 | 87.0 | 86.9 |
|   | November  | 29.624      | 44.3 | 44.1 | 44.2 | 38.7 | 52.0 | 30.8 | 14th | 57.9 | 9th  | 25.9     | 25.7     | 25.8     | 87.8 | 87.6 | 87.7 |
|   | December  | 30.035      | 39.9 | 39.5 | 39.7 | 34.6 | 46.3 | 27.2 | 25th | 54.7 | 29th | 22.2     | 21.7     | 22.0     | 89.1 | 88.8 | 89.0 |
|   | Year      | 29.882      | 48.8 | 47.3 | 48.1 | 41.8 | 55.8 | —    | —    | —    | —    | 29.0     | 28.5     | 28.8     | 81.7 | 85.0 | 83.4 |

## OSCOTT.

Thermometers 4 feet above ground. Rain-gauge 6 inches above ground.

| 1877.     | Amount of Cloud. |        |       | Rainfall. |       |      | Weather, No. of Days of |       |       |                 |            |           |       |    | Wind, No. of Observations of |    |      |     |      |     |      |       |
|-----------|------------------|--------|-------|-----------|-------|------|-------------------------|-------|-------|-----------------|------------|-----------|-------|----|------------------------------|----|------|-----|------|-----|------|-------|
|           | 9 a.m.           | 9 p.m. | Mean. | Total.    | Max.  | Day. | Rain.                   | Snow. | Hail. | Thunder Storms. | Clear Sky. | Overcast. | Gale. | N. | N.E.                         | E. | S.E. | S.  | S.W. | W.  | N.W. | Calm. |
|           |                  |        |       |           |       |      |                         |       |       |                 |            |           |       |    |                              |    |      |     |      |     |      |       |
| January   | 8.4              | 7.0    | 7.7   | 3.270     | 1.120 | 3rd  | 21                      | 5     | 1     | 0               | 2          | 18        | 6     | 1  | 3                            | 2  | 5    | 26  | 12   | 8   | 1    | 4     |
| February  | 7.3              | 6.9    | 7.1   | 1.850     | 370   | 25th | 18                      | 5     | 2     | 0               | 3          | 15        | 3     | 7  | 0                            | 0  | 0    | 10  | 13   | 19  | 7    | 0     |
| March     | 8.0              | 6.7    | 7.4   | 2.060     | 480   | 24th | 18                      | 8     | 5     | 1               | 1          | 17        | 3     | 7  | 4                            | 2  | 3    | 13  | 12   | 8   | 11   | 2     |
| April     | 9.6              | 8.2    | 8.9   | 2.540     | 450   | 4th  | 17                      | 2     | 2     | 3               | 0          | 25        | 1     | 3  | 17                           | 2  | 7    | 9   | 4    | 4   | 3    | 1     |
| May       | 8.7              | 6.1    | 7.4   | 2.460     | 490   | 14th | 17                      | 0     | 0     | 1               | 2          | 18        | 2     | 10 | 17                           | 9  | 4    | 7   | 8    | 5   | 2    | 0     |
| June      | 7.4              | 5.5    | 6.5   | 0.810     | 260   | 21st | 9                       | 0     | 0     | 2               | 4          | 13        | 0     | 5  | 11                           | 7  | 0    | 9   | 18   | 3   | 6    | 1     |
| July      | 8.5              | 7.5    | 8.0   | 3.700     | 2.020 | 14th | 16                      | 0     | 0     | 3               | 1          | 22        | 0     | 3  | 1                            | 0  | 0    | 12  | 22   | 13  | 10   | 1     |
| August    | 8.2              | 7.0    | 7.6   | 3.450     | 700   | 25th | 18                      | 0     | 0     | 2               | 0          | 18        | 1     | 1  | 7                            | 1  | 4    | 13  | 18   | 8   | 8    | 2     |
| September | 7.5              | 5.3    | 6.4   | 2.360     | 930   | 3rd  | 9                       | 0     | 0     | 0               | 3          | 14        | 2     | 12 | 12                           | 8  | 2    | 5   | 6    | 5   | 8    | 2     |
| October   | 7.6              | 5.5    | 6.6   | 1.520     | 180   | 28th | 16                      | 0     | 0     | 0               | 1          | 11        | 6     | 4  | 6                            | 4  | 1    | 15  | 17   | 6   | 5    | 4     |
| November  | 7.1              | 4.9    | 6.0   | 2.580     | 620   | 11th | 19                      | 0     | 0     | 0               | 6          | 10        | 5     | 0  | 2                            | 0  | 2    | 24  | 18   | 9   | 3    | 2     |
| December  | 8.2              | 6.3    | 7.3   | 1.630     | 490   | 28th | 16                      | 5     | 0     | 0               | 3          | 18        | 2     | 4  | 3                            | 0  | 3    | 8   | 20   | 14  | 7    | 3     |
| Year      | 8.0              | 6.4    | 7.2   | 28.230    | —     | —    | 194                     | 25    | 10    | 12              | 26         | 199       | 31    | 57 | 83                           | 45 | 31   | 151 | 168  | 102 | 71   | 22    |

## CHURCHSTOKE.

Thermometers 3 feet 7 inches above ground. Rain-gauge 1 foot 6 inches above ground.

| Thermometers 3 feet 7 inches |   |     |     |      |        |       |      |     |    |    |    |    |    |   |    |    |    |    |    |     |     | 21 |     |     |
|------------------------------|---|-----|-----|------|--------|-------|------|-----|----|----|----|----|----|---|----|----|----|----|----|-----|-----|----|-----|-----|
|                              |   |     |     | ins. | ins.   | 3rd   | 22   | 6   | 2  | 0  | 2  | 8  | 1  | 1 | 1  | 2  | 8  | 16 | 9  | 4   | 3   | 18 | 21  |     |
| January                      | - | 7.1 | 5.6 | 6.4  | 4.395  | .980  |      |     |    |    |    |    |    |   |    |    |    |    |    |     |     |    | 18  |     |
| February                     | - | 6.8 | 5.3 | 6.1  | 2.359  | .650  | 19th | 19  | 4  | 2  | 0  | 0  | 5  | 0 | 4  | 1  | 0  | 0  | 2  | 20  | 11  | 15 | 3   | 18  |
| March                        | - | 6.0 | 5.8 | 5.9  | 2.049  | 1.020 | 24th | 21  | 5  | 0  | 0  | 6  | 11 | 0 | 2  | 1  | 1  | 6  | 3  | 10  | 12  | 6  | 21  | 19  |
| April                        | - | 8.7 | 7.6 | 8.2  | 2.343  | .891  | 20th | 14  | 1  | 1  | 0  | 0  | 19 | 0 | 1  | 7  | 15 | 14 | 4  | 4   | 2   | 3  | 10  | 14  |
| May                          | - | 7.5 | 5.3 | 6.4  | 2.605  | .503  | 18th | 15  | 0  | 1  | 1  | 3  | 11 | 0 | 9  | 7  | 7  | 7  | 6  | 7   | 5   | 4  | 10  | 14  |
| June                         | - | 6.1 | 5.0 | 5.6  | 1.824  | .593  | 1st  | 12  | 0  | 0  | 0  | 4  | 6  | 0 | 2  | 3  | 2  | 7  | 8  | 11  | 6   | 4  | 17  | 11  |
| July                         | - | 5.9 | 7.1 | 6.5  | 3.665  | 1.580 | 14th | 19  | 0  | 1  | 4  | 2  | 6  | 1 | 1  | 0  | 0  | 0  | 8  | 20  | 19  | 5  | 9   | 19  |
| August                       | - | 6.5 | 6.5 | 6.5  | 4.202  | .637  | 8th  | 23  | 0  | 0  | 4  | 3  | 7  | 3 | 2  | 7  | 1  | 11 | 11 | 15  | 5   | 4  | 6   | 23  |
| September                    | - | 7.0 | 4.9 | 6.0  | 2.344  | 1.135 | 2nd  | 5   | 0  | 0  | 0  | 2  | 9  | 0 | 3  | 3  | 3  | 7  | 2  | 10  | 8   | 7  | 17  | 5   |
| October                      | - | 5.6 | 4.9 | 5.3  | 2.677  | .370  | 15th | 22  | 0  | 1  | 0  | 3  | 4  | 2 | 0  | 3  | 2  | 5  | 7  | 19  | 8   | 2  | 16  | 22  |
| November                     | - | 5.9 | 6.0 | 6.0  | 4.409  | 1.009 | 11th | 20  | 1  | 2  | 1  | 2  | 6  | 1 | 0  | 1  | 2  | 3  | 16 | 20  | 8   | 2  | 8   | 18  |
| December                     | - | 6.0 | 5.8 | 5.9  | 2.103  | .467  | 28th | 22  | 5  | 1  | 0  | 3  | 6  | 0 | 1  | 2  | 3  | 4  | 5  | 11  | 17  | 9  | 10  | 21  |
| Year                         | - | 6.6 | 5.8 | 6.2  | 34.975 | —     | —    | 214 | 26 | 11 | 10 | 30 | 98 | 8 | 26 | 36 | 38 | 72 | 88 | 156 | 105 | 64 | 145 | 205 |



## AUDLEY END, ESSEX.

Long. 0° 13' E. Lat. 52° 1' N. Height above Mean Sea Level, 154 feet.

| 1877.         | Mean<br>Pressure. | Air Temperature |        |       |          |      |                        |                |      | Tension of Vapour. |        |        | Relative Humidity. |        |        |       |
|---------------|-------------------|-----------------|--------|-------|----------|------|------------------------|----------------|------|--------------------|--------|--------|--------------------|--------|--------|-------|
|               |                   | 9 a.m.          | 9 p.m. | Mean. | Means of |      | Absolute Min. and Max. |                |      |                    | 9 a.m. | 9 p.m. | Mean.              | 9 a.m. | 9 p.m. | Mean. |
|               |                   |                 |        |       | Min.     | Max. | Min.                   | Day.           | Max. | Day.               |        |        |                    |        |        |       |
| January - -   | ins.<br>29.851    | 41.1            | 40.6   | 40.9  | 35.4     | 47.4 | 25.8                   | 23rd           | 56.0 | 19th               | 247    | 239    | 243                | 92.7   | 92.2   | 92.5  |
| February - -  | 919               | 42.8            | 42.7   | 42.8  | 38.0     | 48.0 | 24.0                   | 28th           | 56.2 | 7th                | 254    | 249    | 252                | 89.6   | 88.8   | 89.2  |
| March - -     | 760               | 40.5            | 38.6   | 39.6  | 33.3     | 47.1 | 22.0                   | 11th           | 56.0 | 25th               | 212    | 210    | 211                | 82.4   | 87.6   | 85.0  |
| April - -     | 792               | 46.4            | 43.8   | 45.1  | 38.8     | 51.6 | 30.0                   | 20th           | 62.4 | 4th                | 249    | 251    | 250                | 78.6   | 86.9   | 82.8  |
| May - -       | 29.893            | 50.3            | 45.9   | 48.1  | 39.9     | 56.4 | 22.0                   | 5th            | 67.0 | 31st               | 282    | 270    | 276                | 77.1   | 85.5   | 81.3  |
| June - -      | 30.025            | 64.1            | 56.6   | 60.4  | 48.0     | 71.8 | 38.0                   | 24th           | 81.8 | 18th               | 390    | 378    | 384                | 65.3   | 81.8   | 73.6  |
| July - -      | 29.909            | 62.4            | 57.7   | 60.1  | 51.4     | 69.3 | 45.2                   | { 7th<br>8th } | 83.0 | 31st               | 414    | 420    | 417                | 73.6   | 87.2   | 80.4  |
| August - -    | 29.874            | 62.8            | 57.7   | 60.3  | 53.1     | 69.8 | 36.9                   | 24th           | 80.2 | 20th               | 438    | 429    | 434                | 76.6   | 89.2   | 82.9  |
| September - - | 30.080            | 54.3            | 48.2   | 51.3  | 43.6     | 61.1 | 31.0                   | 25th           | 70.0 | 11th               | 351    | 318    | 335                | 83.5   | 93.2   | 88.4  |
| October - -   | 30.035            | 48.6            | 46.2   | 47.4  | 38.9     | 57.1 | 26.0                   | 18th           | 68.2 | 14th               | 296    | 292    | 294                | 86.3   | 91.2   | 88.8  |
| November - -  | 29.685            | 43.5            | 43.2   | 43.4  | 36.6     | 51.2 | 27.3                   | 4th            | 58.0 | { 5th<br>6th }     | 268    | 267    | 268                | 92.4   | 93.2   | 92.8  |
| December - -  | 30.053            | 39.0            | 39.8   | 39.4  | 34.5     | 44.9 | 25.0                   | 26th           | 53.0 | 29th               | 224    | 229    | 227                | 92.5   | 91.6   | 92.1  |
| Year - -      | 29.906            | 49.7            | 46.8   | 48.3  | 41.0     | 56.3 | —                      | —              | —    | —                  | 302    | 296    | 299                | 82.6   | 89.0   | 85.8  |

## CARMARTHEN

Long. 4° 18' W. Lat. 51° 52' N. Height above Mean Sea Level, 188 feet.

At 32° F.

|          |             |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------|-------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 29.565 ✓ | January -   | ins. 29.781 | 43.6 | 43.4 | 43.5 | 38.8 | 50.4 | 30.8 | 12th | 54.5 | 27th | 26.6 | 26.9 | 26.8 | 92.5 | 94.2 | 93.4 |
| 752 ✓    | February -  | 970         | 45.7 | 43.5 | 44.6 | 40.1 | 50.4 | 30.0 | 28th | 55.9 | 15th | 28.7 | 27.2 | 28.0 | 91.8 | 94.3 | 93.1 |
| 552 ✓    | March -     | 769         | 43.9 | 41.1 | 42.5 | 35.7 | 49.6 | 24.4 | 1st  | 57.3 | 13th | 24.4 | 24.0 | 24.2 | 84.2 | 91.5 | 87.9 |
| 501 ✓    | April -     | 717         | 47.8 | 44.3 | 46.1 | 40.5 | 54.1 | 31.7 | 20th | 61.4 | 10th | 27.8 | 26.3 | 27.1 | 83.4 | 89.8 | 86.6 |
| 640 ✓    | May -       | 855         | 52.4 | 47.0 | 49.7 | 42.0 | 57.5 | 29.5 | 5th  | 64.2 | 25th | 30.4 | 28.4 | 29.4 | 76.9 | 87.6 | 82.3 |
| 770 ✓    | June -      | 982         | 61.5 | 56.9 | 59.2 | 52.2 | 67.5 | 43.2 | 25th | 79.8 | 18th | 43.3 | 42.2 | 42.8 | 79.6 | 90.6 | 85.1 |
| 701 ✓    | July -      | 912         | 59.9 | 55.9 | 57.9 | 52.0 | 65.3 | 39.8 | 6th  | 72.6 | 28th | 44.9 | 43.0 | 44.0 | 87.1 | 95.4 | 91.3 |
| 631 ✓    | August -    | 29.842      | 60.7 | 56.7 | 58.7 | 52.6 | 66.7 | 40.1 | 24th | 72.8 | 5th  | 46.0 | 43.2 | 44.6 | 86.4 | 93.2 | 89.8 |
| 856 ✓    | September - | 30.071      | 55.6 | 50.7 | 53.2 | 44.8 | 62.5 | 36.2 | 23rd | 66.8 | 10th | 37.5 | 34.8 | 36.2 | 84.6 | 92.7 | 88.7 |
| 774 ✓    | October -   | 29.990      | 51.1 | 48.7 | 49.9 | 42.9 | 59.2 | 28.9 | 18th | 67.7 | 15th | 33.7 | 32.5 | 33.1 | 88.5 | 93.1 | 90.8 |
| 397 ✓    | November -  | 29.612      | 46.4 | 45.8 | 46.1 | 39.6 | 53.2 | 29.9 | 14th | 59.2 | 5th  | 29.1 | 29.7 | 29.4 | 91.1 | 94.5 | 92.8 |
| 29.832 ✓ | December -  | 30.050      | 42.5 | 41.7 | 42.1 | 37.5 | 48.4 | 29.3 | 28th | 53.2 | 29th | 25.4 | 25.3 | 25.4 | 92.3 | 94.3 | 93.3 |
|          | Year -      | 29.879      | 50.9 | 48.0 | 49.5 | 43.2 | 57.1 | —    | —    | —    | —    | 33.2 | 32.0 | 32.6 | 86.5 | 92.6 | 89.6 |

## CHIGWELL ROW

Long. 0° 6' E. Lat. 51° 37' N. Height above Mean Sea Level, 186 feet.

|             | ins.   |      |      |      |      |      |      |            |      |                               | in. | in. | in. | %    | %    | %    |
|-------------|--------|------|------|------|------|------|------|------------|------|-------------------------------|-----|-----|-----|------|------|------|
| January -   | 29.878 | 41.9 | 42.6 | 42.3 | 37.3 | 48.0 | 29.5 | 21st       | 55.0 | 19th                          | 255 | 249 | 252 | 96   | 91   | 94   |
| February -  | 962    | 43.2 | 42.9 | 43.1 | 37.7 | 48.4 | 24.0 | 28th       | 57.0 | 7th                           | 251 | 244 | 248 | 90   | 88   | 89   |
| March -     | 787    | 39.9 | 39.9 | 39.9 | 34.5 | 46.2 | 24.0 | 1st        | 55.0 | 29th                          | 211 | 218 | 215 | 86   | 89   | 88   |
| April -     | 805    | 46.6 | 44.5 | 45.6 | 39.6 | 51.3 | 32.0 | 20th       | 58.0 | 22nd<br>8th,<br>26th,<br>27th | 258 | 257 | 258 | 81   | 87   | 84   |
| May -       | 29.910 | 50.3 | 47.4 | 48.9 | 41.2 | 55.6 | 28.8 | 4th        | 63.0 | 29th                          | 283 | 268 | 276 | 78   | 82   | 80   |
| June -      | 30.060 | 62.3 | 59.4 | 60.9 | 51.2 | 69.5 | 42.8 | 24th       | 79.0 | 31st                          | 381 | 376 | 379 | 68   | 74   | 71   |
| July -      | 29.947 | 60.4 | 59.6 | 60.0 | 51.9 | 67.2 | 43.0 | 8th        | 82.0 | 20th                          | 404 | 419 | 412 | 77   | 82   | 80   |
| August -    | 29.910 | 61.5 | 59.8 | 60.7 | 53.8 | 68.3 | 44.2 | 24th       | 78.6 | 11th                          | 427 | 412 | 420 | 78   | 80   | 79   |
| September - | 30.102 | 54.0 | 51.9 | 53.0 | 45.9 | 59.9 | 35.0 | 27th       | 69.0 | 14th                          | 342 | 325 | 334 | 82   | 84   | 83   |
| October -   | 30.061 | 47.9 | 48.9 | 48.4 | 42.4 | 55.7 | 28.0 | 18th       | 67.3 | 6th                           | 286 | 293 | 290 | 86   | 84   | 85   |
| November -  | 29.714 | 44.7 | 44.9 | 44.8 | 39.4 | 51.0 | 32.2 | 26th       | 57.5 | 19th & 26th                   | 269 | 271 | 270 | 91   | 91   | 91   |
| December -  | 30.072 | 39.2 | 40.0 | 39.6 | 35.3 | 45.1 | 27.0 | 6th & 29th | 52.5 |                               | 224 | 229 | 227 | 93   | 93   | 93   |
| Year -      | 29.934 | 49.3 | 48.5 | 48.9 | 42.5 | 55.5 | —    | —          | —    |                               | 299 | 297 | 298 | 83.8 | 85.4 | 84.6 |

## AUDLEY END, ESSEX.

Thermometers 4 feet above ground. Rain-gauge, 1 foot above ground.

| 1877.       | Amount of Cloud. |        |       | Rainfall.  |           |      | Weather, No. of Days of |       |       |                 |            |           |       |    | Wind, No. of Observations of |    |      |    |      |    |      |       |
|-------------|------------------|--------|-------|------------|-----------|------|-------------------------|-------|-------|-----------------|------------|-----------|-------|----|------------------------------|----|------|----|------|----|------|-------|
|             | 9 a.m.           | 9 p.m. | Mean. | Total.     | Max.      | Day. | Rain.                   | Snow. | Hail. | Thunder Storms. | Clear Sky. | Overcast. | Gale. | N. | N.E.                         | E. | S.E. | S. | S.W. | W. | N.W. | Calm. |
| January -   | 7.6              | 5.0    | 6.3   | ins. 3.620 | ins. 4.70 | 10th | 27                      | 3     | 0     | 0               | 2          | 12        | 0     | 0  | 3                            | 2  | 1    | 4  | 23   | 7  | 10   | 12    |
| February -  | 7.2              | 5.8    | 6.5   | 2.270      | 3.30      | 22nd | 18                      | 6     | 1     | 0               | 2          | 11        | 0     | 1  | 0                            | 0  | 0    | 0  | 14   | 10 | 29   | 2     |
| March -     | 6.7              | 5.3    | 6.0   | 2.160      | 3.30      | 3rd  | 21                      | 9     | 2     | 2               | 5          | 11        | 0     | 0  | 4                            | 0  | 10   | 5  | 8    | 4  | 26   | 5     |
| April -     | 8.0              | 7.1    | 7.6   | 2.200      | 4.10      | 9th  | 14                      | 0     | 3     | 6               | 0          | 16        | 0     | 3  | 20                           | 0  | 11   | 7  | 8    | 2  | 6    | 3     |
| May -       | 7.5              | 5.0    | 6.3   | 1.860      | 4.10      | 12th | 20                      | 0     | 2     | 3               | 2          | 13        | 0     | 6  | 11                           | 2  | 8    | 0  | 14   | 3  | 12   | 6     |
| June -      | 5.1              | 3.8    | 4.5   | 1.340      | 8.50      | 30th | 9                       | 0     | 0     | 3               | 6          | 3         | 0     | 0  | 14                           | 2  | 4    | 2  | 18   | 7  | 8    | 5     |
| July -      | 7.2              | 5.5    | 6.4   | 2.910      | 5.50      | 14th | 16                      | 0     | 0     | 5               | 1          | 7         | 0     | 0  | 0                            | 0  | 0    | 0  | 24   | 15 | 20   | 3     |
| August -    | 7.2              | 5.7    | 6.5   | 3.690      | 7.70      | 25th | 18                      | 0     | 1     | 4               | 1          | 14        | 0     | 2  | 4                            | 0  | 4    | 4  | 13   | 18 | 13   | 4     |
| September - | 6.4              | 3.5    | 5.0   | 1.130      | 6.00      | 3rd  | 14                      | 0     | 1     | 2               | 3          | 7         | 0     | 10 | 12                           | 0  | 1    | 0  | 8    | 6  | 14   | 9     |
| October -   | 6.4              | 4.3    | 5.4   | 1.000      | 1.90      | 29th | 17                      | 0     | 1     | 0               | 5          | 10        | 0     | 2  | 2                            | 0  | 0    | 0  | 24   | 7  | 11   | 16    |
| November -  | 6.0              | 3.2    | 4.6   | 3.160      | 8.50      | 11th | 23                      | 0     | 1     | 1               | 7          | 7         | 0     | 0  | 2                            | 0  | 2    | 6  | 25   | 8  | 8    | 9     |
| December -  | 6.7              | 5.4    | 6.1   | 2.000      | 6.20      | 28th | 21                      | 4     | 0     | 0               | 3          | 11        | 0     | 1  | 3                            | 0  | 2    | 1  | 16   | 7  | 12   | 20    |
| Year -      | 6.8              | 5.0    | 5.9   | 27.340     | —         | —    | 218                     | 22    | 12    | 26              | 37         | 122       | 0     | 25 | 75                           | 6  | 43   | 29 | 195  | 94 | 169  | 94    |

## CARMARTHEN.

Thermometers 4 feet above ground. Rain-gauge 1 foot above ground.

|             |     |     |     |            |            |      |     |   |    |   |    |     |   |    |    |    |    |    |     |     |    |     |
|-------------|-----|-----|-----|------------|------------|------|-----|---|----|---|----|-----|---|----|----|----|----|----|-----|-----|----|-----|
| January -   | 7.9 | 7.1 | 7.5 | ins. 8.940 | ins. 1.450 | 3rd  | 28  | 0 | 3  | 1 | 0  | 14  | 0 | 5  | 1  | 5  | 3  | 6  | 16  | 9   | 3  | 14  |
| February -  | 7.8 | 7.1 | 7.5 | 4.250      | 4.80       | 1st  | 24  | 2 | 3  | 0 | 1  | 15  | 0 | 10 | 0  | 0  | 0  | 1  | 17  | 13  | 9  | 6   |
| March -     | 6.3 | 5.6 | 6.0 | 3.890      | 7.90       | 24th | 26  | 3 | 4  | 1 | 3  | 10  | 0 | 11 | 2  | 4  | 5  | 2  | 10  | 9   | 6  | 13  |
| April -     | 7.8 | 5.9 | 6.9 | 3.510      | 6.80       | 15th | 17  | 0 | 2  | 0 | 2  | 15  | 1 | 4  | 3  | 17 | 11 | 4  | 3   | 8   | 0  | 10  |
| May -       | 6.5 | 5.1 | 5.8 | 4.430      | 1.770      | 27th | 16  | 0 | 0  | 1 | 5  | 11  | 0 | 4  | 7  | 14 | 5  | 8  | 7   | 7   | 2  | 8   |
| June -      | 6.4 | 6.7 | 6.6 | 2.910      | 8.40       | 1st  | 18  | 0 | 0  | 1 | 6  | 14  | 0 | 5  | 6  | 10 | 1  | 10 | 14  | 7   | 1  | 6   |
| July -      | 8.3 | 7.1 | 7.7 | 4.920      | 1.320      | 22nd | 17  | 0 | 0  | 0 | 0  | 16  | 0 | 1  | 0  | 0  | 0  | 2  | 20  | 15  | 9  | 15  |
| August -    | 7.4 | 6.4 | 6.9 | 7.800      | 1.230      | 7th  | 21  | 0 | 0  | 1 | 1  | 14  | 0 | 2  | 0  | 9  | 5  | 4  | 13  | 12  | 7  | 10  |
| September - | 6.0 | 3.9 | 5.0 | 3.380      | 8.00       | 2nd  | 12  | 0 | 0  | 0 | 7  | 7   | 0 | 8  | 1  | 11 | 4  | 0  | 5   | 4   | 2  | 25  |
| October -   | 6.4 | 5.4 | 5.9 | 6.470      | 1.350      | 28th | 20  | 0 | 2  | 1 | 5  | 9   | 0 | 3  | 0  | 4  | 1  | 5  | 12  | 10  | 1  | 26  |
| November -  | 6.5 | 6.8 | 6.7 | 8.630      | 8.70       | 11th | 26  | 3 | 4  | 1 | 0  | 8   | 0 | 1  | 0  | 2  | 0  | 3  | 23  | 11  | 3  | 17  |
| December -  | 6.5 | 6.5 | 6.5 | 4.130      | 1.020      | 28th | 22  | 1 | 0  | 0 | 3  | 12  | 0 | 6  | 0  | 4  | 2  | 0  | 12  | 12  | 6  | 20  |
| Year -      | 7.0 | 6.1 | 6.6 | 63.260     | —          | —    | 247 | 9 | 18 | 7 | 33 | 145 | 1 | 60 | 20 | 80 | 37 | 45 | 152 | 117 | 49 | 170 |

## CHIGWELL ROW.



## MARLBOROUGH, WILTS.

Long. 1° 43' W. Lat. 51° 25' N. Height above Mean Sea Level, 471 feet.

| 1877.       | Mean Pressure. | Air Temperature. |        |       |          |      |                        |      |      | Tension of Vapour. |        |       | Relative Humidity. |        |       |
|-------------|----------------|------------------|--------|-------|----------|------|------------------------|------|------|--------------------|--------|-------|--------------------|--------|-------|
|             |                | 9 a.m.           | 9 p.m. | Mean. | Means of |      | Absolute Min. and Max. |      |      | 9 a.m.             | 9 p.m. | Mean. | 9 a.m.             | 9 p.m. | Mean. |
|             |                |                  |        |       | Min.     | Max. | Min.                   | Day. | Max. | Day.               |        |       |                    |        |       |
| January -   | ins. 29.845    | 41.3             | 40.9   | 41.1  | 36.5     | 47.9 | 28.8                   | 12th | 53.3 | 19th               | 24.7   | 23.7  | 24.2               | 93.1   | 91.0  |
| February -  | 977            | 42.5             | 41.7   | 42.1  | 38.4     | 48.6 | 24.7                   | 28th | 56.2 | 7th                | 24.5   | 24.5  | 24.5               | 88.7   | 91.3  |
| March -     | 789            | 40.6             | 38.9   | 39.8  | 33.6     | 47.9 | 20.8                   | 1st  | 57.8 | 30th               | 21.2   | 21.3  | 21.3               | 82.0   | 88.3  |
| April -     | 771            | 45.1             | 43.6   | 44.4  | 38.7     | 52.2 | 30.2                   | 17th | 59.5 | 22nd               | 25.2   | 25.2  | 25.2               | 83.3   | 88.3  |
| May -       | 29.893         | 49.7             | 46.4   | 48.1  | 39.9     | 56.8 | 25.8                   | 5th  | 64.5 | 26th               | 26.2   | 26.1  | 26.2               | 73.1   | 81.9  |
| June -      | 30.027         | 61.6             | 58.2   | 59.9  | 50.4     | 70.5 | 40.7                   | 24th | 81.8 | 18th               | 37.9   | 37.9  | 37.9               | 69.6   | 77.7  |
| July -      | 29.939         | 60.7             | 56.5   | 58.6  | 50.4     | 67.9 | 41.4                   | 7th  | 82.5 | 31st               | 41.5   | 40.7  | 41.1               | 78.6   | 88.2  |
| August -    | 29.884         | 61.8             | 56.7   | 59.3  | 52.4     | 68.3 | 36.2                   | 24th | 77.3 | 20th               | 43.5   | 41.7  | 42.6               | 78.7   | 89.9  |
| September - | 30.094         | 53.9             | 49.3   | 51.6  | 43.8     | 61.1 | 33.1                   | 25th | 66.5 | 6th                | 33.6   | 31.3  | 32.5               | 80.6   | 88.7  |
| October -   | 30.046         | 48.6             | 45.7   | 47.2  | 39.2     | 57.6 | 24.5                   | 18th | 66.1 | 14th               | 29.3   | 27.9  | 28.6               | 84.9   | 89.8  |
| November -  | 29.690         | 43.3             | 43.1   | 43.2  | 38.1     | 51.5 | 31.2                   | 26th | 57.4 | 1st                | 26.3   | 26.5  | 26.4               | 92.1   | 93.0  |
| December -  | 30.075         | 38.3             | 39.1   | 38.7  | 34.6     | 45.1 | 26.7                   | 26th | 51.9 | 6th                | 22.1   | 22.6  | 22.4               | 93.6   | 93.5  |
| Year -      | 29.919         | 49.0             | 46.7   | 47.9  | 41.3     | 56.3 | —                      | —    | —    | —                  | 29.7   | 29.2  | 29.5               | 83.2   | 88.5  |

## STRATHFIELD TURGISS

Long. 1° 0' W. Lat. 51° 20' N. Height above Mean Sea Level, 195 feet.

| 1877.       | Mean Pressure. | Air Temperature. |        |       |          |      |                        |      |      | Tension of Vapour. |        |       | Relative Humidity. |        |       |
|-------------|----------------|------------------|--------|-------|----------|------|------------------------|------|------|--------------------|--------|-------|--------------------|--------|-------|
|             |                | 9 a.m.           | 9 p.m. | Mean. | Means of |      | Absolute Min. and Max. |      |      | 9 a.m.             | 9 p.m. | Mean. | 9 a.m.             | 9 p.m. | Mean. |
|             |                |                  |        |       | Min.     | Max. | Min.                   | Day. | Max. | Day.               |        |       |                    |        |       |
| January -   | ins. 29.854    | 42.2             | 41.4   | 41.8  | 36.4     | 48.7 | 26.7                   | 21st | 54.4 | 19th               | 25.2   | 24.0  | 24.6               | 91.1   | 90.5  |
| February -  | 963            | 43.7             | 42.5   | 43.1  | 38.6     | 49.2 | 25.0                   | 28th | 57.6 | 7th                | 24.4   | 24.1  | 24.3               | 84.4   | 86.1  |
| March -     | 779            | 41.7             | 39.5   | 40.6  | 33.5     | 48.6 | 21.7                   | 11th | 58.7 | 29th               | 21.4   | 21.9  | 21.7               | 79.3   | 88.4  |
| April -     | 773            | 47.5             | 44.4   | 46.0  | 39.1     | 54.1 | 28.9                   | 20th | 60.2 | 10th               | 25.8   | 24.7  | 25.3               | 78.3   | 83.9  |
| May -       | 29.893         | 51.3             | 47.0   | 49.2  | 39.9     | 58.1 | 26.0                   | 5th  | 65.3 | 26th               | 27.0   | 26.4  | 26.7               | 71.2   | 80.6  |
| June -      | 30.031         | 63.7             | 58.3   | 61.0  | 49.3     | 72.5 | 41.9                   | 24th | 85.4 | 18th               | 39.0   | 38.8  | 38.9               | 66.0   | 79.2  |
| July -      | 29.935         | 62.4             | 57.8   | 60.1  | 50.4     | 69.4 | 39.3                   | 8th  | 83.2 | 31st               | 40.6   | 41.0  | 40.8               | 72.0   | 85.1  |
| August -    | 29.880         | 63.4             | 57.5   | 60.5  | 52.0     | 69.6 | 35.4                   | 24th | 79.1 | 20th               | 42.8   | 40.2  | 41.5               | 73.2   | 84.5  |
| September - | 30.088         | 54.0             | 49.4   | 51.7  | 43.3     | 62.7 | 30.7                   | 25th | 67.5 | 6th                | 34.2   | 31.7  | 33.0               | 81.7   | 89.3  |
| October -   | 30.047         | 49.4             | 45.2   | 47.3  | 37.6     | 58.9 | 24.3                   | 18th | 68.6 | 14th               | 28.9   | 27.4  | 28.2               | 81.7   | 89.0  |
| November -  | 29.696         | 44.8             | 43.7   | 44.3  | 37.4     | 52.4 | 28.8                   | 17th | 58.2 | 6th                | 26.5   | 26.4  | 26.5               | 87.7   | 90.8  |
| December -  | 30.066         | 38.9             | 39.3   | 39.1  | 34.3     | 46.0 | 25.7                   | 28th | 55.1 | 6th                | 22.2   | 22.3  | 22.3               | 90.1   | 91.3  |
| Year -      | 29.917         | 50.3             | 47.2   | 48.8  | 41.0     | 57.5 | —                      | —    | —    | —                  | 29.8   | 29.1  | 29.5               | 79.7   | 86.6  |

## RAMSGATE

Long. 1° 25' E. Lat. 51° 20' N. Height above Mean Sea Level, 105 feet.

| 1877.       | Mean Pressure. | Air Temperature. |        |       |          |      |                        |      |      | Tension of Vapour. |        |       | Relative Humidity. |        |       |
|-------------|----------------|------------------|--------|-------|----------|------|------------------------|------|------|--------------------|--------|-------|--------------------|--------|-------|
|             |                | 9 a.m.           | 9 p.m. | Mean. | Means of |      | Absolute Min. and Max. |      |      | 9 a.m.             | 9 p.m. | Mean. | 9 a.m.             | 9 p.m. | Mean. |
|             |                |                  |        |       | Min.     | Max. | Min.                   | Day. | Max. | Day.               |        |       |                    |        |       |
| January -   | ins. 29.886    | 43.7             | 44.2   | 44.0  | 39.0     | 48.8 | 30.0                   | 27th | 55.6 | 9th                | 27.0   | 26.8  | 26.9               | 92.9   | 90.9  |
| February -  | 920            | 43.9             | 43.4   | 43.7  | 38.5     | 49.3 | 25.9                   | 28th | 57.2 | 7th                | 26.7   | 25.4  | 26.1               | 91.0   | 87.9  |
| March -     | 743            | 41.7             | 39.5   | 40.6  | 33.5     | 48.6 | 21.7                   | 11th | 58.7 | 29th               | 21.4   | 21.9  | 21.7               | 79.3   | 88.4  |
| April -     | 762            | 47.5             | 44.4   | 46.0  | 39.1     | 54.1 | 28.9                   | 20th | 60.2 | 10th               | 25.8   | 24.7  | 25.3               | 78.3   | 83.9  |
| May -       | 29.858         | 51.3             | 47.0   | 49.2  | 39.9     | 58.1 | 26.0                   | 5th  | 65.3 | 26th               | 27.0   | 26.4  | 26.7               | 71.2   | 80.6  |
| June -      | 30.015         | 63.7             | 58.3   | 61.0  | 49.3     | 72.5 | 41.9                   | 24th | 85.4 | 18th               | 39.0   | 38.8  | 38.9               | 66.0   | 79.2  |
| July -      | *              | 62.4             | 57.8   | 60.1  | 50.4     | 69.4 | 39.3                   | 8th  | 83.2 | 31st               | 40.6   | 41.0  | 40.8               | 72.0   | 85.1  |
| August -    | 29.871         | 63.4             | 57.5   | 60.5  | 52.0     | 69.6 | 35.4                   | 24th | 79.1 | 20th               | 42.8   | 40.2  | 41.5               | 73.2   | 84.5  |
| September - | 30.042         | 54.0             | 49.4   | 51.7  | 43.3     | 62.7 | 30.7                   | 25th | 67.5 | 6th                | 34.2   | 31.7  | 33.0               | 81.7   | 89.3  |
| October -   | 30.023         | 49.4             | 45.2   | 47.3  | 37.6     | 58.9 | 24.3                   | 18th | 68.6 | 14th               | 28.9   | 27.4  | 28.2               | 81.7   | 89.0  |
| November -  | 29.711         | 44.8             | 43.7   | 44.3  | 37.4     | 52.4 | 28.8                   | 17th | 58.2 | 6th                | 26.5   | 26.4  | 26.5               | 87.7   | 90.8  |
| December -  | 30.042         | 38.9             | 39.3   | 39.1  | 34.3     | 46.0 | 25.7                   | 28th | 55.1 | 6th                | 22.2   | 22.3  | 22.3               | 90.1   | 91.3  |
| Year -      | —              | —                | —      | —     | —        | —    | —                      | —    | —    | —                  | —      | —     | —                  | —      | —     |

\* Observations taken on only 25 days.

† Observations taken on only 18 days.

## MARLBOROUGH, WILTS.

Thermometers 4 feet above ground. Rain-gauge 1 foot above ground.

| Thermometers 4 feet above ground. |                  |        |       |            |           |      |                         |       |       |                 |            |           |       | Wind, No. of Observations of |    |      |    |      |     |      |    |      |       |
|-----------------------------------|------------------|--------|-------|------------|-----------|------|-------------------------|-------|-------|-----------------|------------|-----------|-------|------------------------------|----|------|----|------|-----|------|----|------|-------|
| 1877.                             | Amount of Cloud. |        |       | Rainfall.  |           |      | Weather, No. of Days of |       |       |                 |            |           |       |                              | N. | N.E. | E. | S.E. | S.  | S.W. | W. | N.W. | Calm. |
|                                   | 9 a.m.           | 9 p.m. | Mean. | Total.     | Max.      | Day. | Rain.                   | Snow. | Hail. | Thunder Storms. | Clear Sky. | Overcast. | Gale. |                              |    |      |    |      |     |      |    |      |       |
| January -                         | 7.5              | 6.5    | 7.0   | ins. 5.653 | ins. .842 | 6th  | 28                      | 0     | 0     | 0               | 2          | 12        | 3     | 1                            | 3  | 1    | 1  | 17   | 12  | 12   | 1  | 14   |       |
| February -                        | 7.1              | 7.4    | 7.3   | 1.608      | .358      | 19th | 19                      | 3     | 2     | 0               | 3          | 14        | 2     | 0                            | 0  | 0    | 0  | 1    | 14  | 23   | 15 | 3    |       |
| March -                           | 6.3              | 6.3    | 6.3   | 2.414      | .373      | 23rd | 19                      | 5     | 3     | 2               | 5          | 11        | 0     | 8                            | 1  | 1    | 3  | 7    | 6   | 20   | 6  | 10   |       |
| April -                           | 9.0              | 6.8    | 7.9   | 3.670      | .547      | 3rd  | 19                      | 0     | 2     | 0               | 0          | 18        | 0     | 9                            | 4  | 16   | 4  | 8    | 1   | 6    | 0  | 12   |       |
| May -                             | 7.2              | 6.2    | 6.7   | 2.588      | .466      | 12th | 14                      | 0     | 0     | 0               | 2          | 13        | 0     | 14                           | 3  | 5    | 1  | 4    | 5   | 8    | 1  | 21   |       |
| June -                            | 5.8              | 4.7    | 5.3   | 1.115      | .564      | 1st  | 8                       | 0     | 0     | 2               | 8          | 8         | 0     | 2                            | 4  | 8    | 2  | 7    | 13  | 2    | 2  | 20   |       |
| July -                            | 7.9              | 6.2    | 7.1   | 5.031      | 1.954     | 14th | 20                      | 0     | 0     | 2               | 0          | 13        | 0     | 0                            | 0  | 0    | 1  | 2    | 18  | 20   | 4  | 17   |       |
| August -                          | 7.8              | 5.0    | 6.4   | 4.805      | .900      | 14th | 18                      | 0     | 0     | 0               | 2          | 11        | 0     | 3                            | 1  | 3    | 1  | 6    | 17  | 10   | 2  | 19   |       |
| September -                       | 6.9              | 5.1    | 6.0   | 2.954      | 1.258     | 3rd  | 6                       | 0     | 0     | 0               | 6          | 13        | 0     | 9                            | 6  | 3    | 0  | 2    | 9   | 2    | 3  | 26   |       |
| October -                         | 5.0              | 4.5    | 4.8   | 2.493      | .513      | 29th | 15                      | 0     | 1     | 0               | 8          | 7         | 0     | 6                            | 1  | 2    | 0  | 3    | 24  | 6    | 2  | 18   |       |
| November -                        | 7.1              | 4.7    | 5.9   | 7.016      | 1.645     | 11th | 23                      | 0     | 1     | 1               | 5          | 10        | 2     | 0                            | 1  | 1    | 1  | 6    | 25  | 15   | 0  | 11   |       |
| December -                        | 7.0              | 6.0    | 6.5   | 2.391      | .530      | 28th | 19                      | 3     | 0     | 0               | 5          | 14        | 0     | 4                            | 0  | 0    | 0  | 4    | 9   | 23   | 4  | 18   |       |
| Year -                            | 7.1              | 5.8    | 6.5   | 41.738     | —         | —    | 208                     | 11    | 9     | 7               | 46         | 144       | 7     | 56                           | 24 | 40   | 14 | 67   | 153 | 147  | 40 | 189  |       |

## STRATHFIELD TURGISS.

Thermometers 4 feet above ground. Rain-gauge 1 foot above ground.

| Thermometers 4 feet above ground. |  |  |  |      |      |  |  |  |  | Rain-gauge 1 foot above ground. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                                   |  |  |  | ins. | ins. |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



## FOLKESTONE

Long.  $1^{\circ} 10' \text{ E.}$  Lat.  $51^{\circ} 5' \text{ N.}$  Height above Mean Sea Level, 159 feet.

[illegible]

NOTE.—Observer was away from home during the greater part of July, causing the break in the series of observations, shown above.

## HASTINGS

Long.  $0^{\circ} 38' \text{ E.}$  Lat.  $50^{\circ} 52' \text{ N.}$  Height above Mean Sea Level, 172 feet.

|           |   | ins.               |      |      |      |      |      |      |           |      |      | in. | in. | in. | %    | %    | %    |
|-----------|---|--------------------|------|------|------|------|------|------|-----------|------|------|-----|-----|-----|------|------|------|
| January   | - | 29°88 <sup>5</sup> | 44°1 | 44°4 | 44°3 | 39°7 | 48°5 | 31°1 | 27th      | 54°8 | 1st  | 269 | 266 | 268 | 91°2 | 89°2 | 90°2 |
| February  | - | 961                | 43°5 | 42°9 | 43°2 | 39°1 | 48°2 | 24°0 | 28th      | 54°0 | 11th | 258 | 244 | 251 | 88°8 | 85°5 | 87°2 |
| March     | - | 780                | 41°1 | 40°1 | 40°6 | 35°6 | 46°1 | 25°1 | 1st       | 53°8 | 30th | 218 | 222 | 220 | 82°3 | 86°7 | 84°5 |
| April     | - | 774                | 47°4 | 45°1 | 46°3 | 41°3 | 51°6 | 35°1 | 20th      | 58°5 | 9th  | 263 | 261 | 262 | 79°9 | 86°3 | 83°1 |
| May       | - | 29°89 <sup>3</sup> | 50°7 | 46°9 | 48°8 | 43°1 | 54°8 | 31°2 | 5th       | 61°4 | 8th  | 289 | 277 | 283 | 76°8 | 84°5 | 80°7 |
| June      | - | 30°03 <sup>5</sup> | 62°2 | 57°7 | 60°0 | 52°7 | 67°6 | 44°9 | 7th       | 76°5 | 18th | 406 | 389 | 398 | 72°6 | 81°6 | 77°7 |
| July      | - | 29°95 <sup>2</sup> | 61°9 | 58°3 | 60°1 | 53°3 | 65°8 | 45°3 | 7th & 8th | 75°0 | 31st | 424 | 430 | 427 | 76°5 | 88°1 | 82°3 |
| August    | - | 29°90 <sup>7</sup> | 62°6 | 60°0 | 61°3 | 55°7 | 67°6 | 46°4 | 3rd       | 75°7 | 6th  | 454 | 450 | 452 | 79°6 | 86°3 | 83°0 |
| September | - | 30°06 <sup>9</sup> | 55°6 | 52°8 | 54°2 | 48°5 | 61°0 | 39°3 | 22nd      | 68°5 | 11th | 360 | 340 | 350 | 80°5 | 84°0 | 82°3 |
| October   | - | 30°05 <sup>6</sup> | 51°0 | 50°0 | 50°5 | 44°6 | 57°0 | 32°9 | 17th      | 63°6 | 14th | 311 | 306 | 309 | 82°7 | 83°8 | 83°3 |
| November  | - | 29°73°0            | 47°9 | 48°1 | 48°0 | 42°8 | 52°6 | 32°7 | 26th      | 59°1 | 16th | 292 | 292 | 292 | 86°2 | 85°5 | 85°9 |
| December  | - | 30°07°1            | 40°7 | 40°9 | 40°8 | 36°9 | 46°0 | 28°0 | 28th      | 51°5 | 6th  | 235 | 235 | 235 | 90°3 | 90°2 | 90°3 |
| Year      | - | 29°92 <sup>6</sup> | 50°7 | 48°9 | 49°8 | 44°4 | 55°6 | —    | —         | —    | —    | 315 | 309 | 312 | 82°3 | 86°0 | 84°2 |

## DARTMOOR.

Long.  $3^{\circ} 59' \text{ W.}$  Lat.  $50^{\circ} 33' \text{ N.}$  Height above Mean Sea Level, 1,372 feet.

[illegible]

FOLKESTONE.

Thermometers 4 feet above ground. Rain-gauge 1 foot 3 inches above ground.

[illegible]

NOTE.—Observer was away from home during the greater part of July, causing the break in the series of observations, shown above.

HASTINGS.

Thermometers 4 feet above ground. Rain-gauge 1 foot above ground.

| Thermometers 4 feet above ground. |   |     |     |      |        |       |      |     |   | Rain-gauge 1 foot above ground. |    |    |     |    |    |     |    |    |    |     |     |    |    |   |
|-----------------------------------|---|-----|-----|------|--------|-------|------|-----|---|---------------------------------|----|----|-----|----|----|-----|----|----|----|-----|-----|----|----|---|
|                                   |   |     |     | ins. | ins.   |       |      |     |   |                                 |    |    |     |    |    |     |    |    |    |     |     |    |    |   |
| January                           | - | 7.5 | 5.6 | 6.6  | 2.035  | 1.240 | 10th | 26  | 0 | 1                               | 0  | 4  | 13  | 4  | 5  | 8   | 2  | 2  | 14 | 19  | 8   | 4  | 0  |   |
| February                          | - | 8.0 | 7.0 | 7.5  | 2.075  | .485  | 18th | 19  | 2 | 2                               | 0  | 3  | 17  | 2  | 6  | 2   | 0  | 0  | 1  | 11  | 28  | 7  | 1  |   |
| March                             | - | 6.4 | 5.3 | 5.9  | 2.425  | .480  | 20th | 22  | 4 | 3                               | 0  | 5  | 9   | 1  | 11 | 6   | 2  | 3  | 7  | 8   | 16  | 8  | 1  |   |
| April                             | - | 8.2 | 7.0 | 7.6  | 2.085  | .440  | 23rd | 19  | 0 | 3                               | 5  | 0  | 15  | 2  | 2  | 19  | 13 | 5  | 2  | 11  | 4   | 3  | 1  |   |
| May                               | - | 6.4 | 5.7 | 6.1  | 2.335  | .500  | 17th | 16  | 0 | 0                               | 0  | 5  | 10  | 1  | 7  | 18  | 3  | 3  | 5  | 14  | 8   | 0  | 4  |   |
| June                              | - | 4.0 | 4.0 | 4.0  | 2.070  | 1.710 | 11th | 8   | 0 | 0                               | 6  | 12 | 4   | 2  | 2  | 18  | 4  | 2  | 6  | 14  | 10  | 2  | 2  |   |
| July                              | - | 6.4 | 5.8 | 6.1  | 2.565  | .570  | 14th | 16  | 0 | 1                               | 3  | 5  | 11  | 2  | 3  | 0   | 0  | 1  | 7  | 28  | 17  | 5  | 1  |   |
| August                            | - | 5.3 | 6.1 | 5.7  | 2.350  | .640  | 25th | 19  | 0 | 0                               | 0  | 2  | 7   | 9  | 5  | 4   | 6  | 2  | 2  | 6   | 21  | 12 | 9  | 0 |
| September                         | - | 5.2 | 4.7 | 5.0  | 1.070  | .480  | 2nd  | 12  | 0 | 0                               | 0  | 9  | 8   | 3  | 17 | 21  | 1  | 1  | 2  | 9   | 2   | 5  | 2  |   |
| October                           | - | 5.2 | 4.9 | 5.1  | 3.810  | .900  | 27th | 15  | 0 | 0                               | 0  | 9  | 8   | 5  | 9  | 12  | 1  | 0  | 7  | 15  | 13  | 2  | 4  |   |
| November                          | - | 6.4 | 6.1 | 6.3  | 7.390  | 1.325 | 24th | 24  | 0 | 3                               | 2  | 7  | 15  | 12 | 2  | 3   | 1  | 1  | 13 | 21  | 13  | 4  | 2  |   |
| December                          | - | 6.6 | 4.9 | 5.8  | 2.700  | .815  | 28th | 19  | 1 | 2                               | 0  | 7  | 12  | 2  | 7  | 9   | 3  | 1  | 6  | 12  | 14  | 10 | 0  |   |
| Year                              | - | 6.3 | 5.6 | 6.0  | 39.110 | —     | —    | 215 | 7 | 15                              | 18 | 73 | 131 | 41 | 75 | 122 | 32 | 21 | 76 | 183 | 144 | 59 | 18 |   |

DARTMOOR.

Thermometers 4 feet above ground. Rain-gauge 1 foot above ground.

| Thermometers 4 feet above ground. |   |     |     |      |         |       |      |      |      | Rain-gauge 1 foot above ground. |      |      |      |      |      |      |      |      |     |
|-----------------------------------|---|-----|-----|------|---------|-------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|-----|
|                                   |   |     |     | ins. | ins.    |       |      |      |      |                                 |      |      |      |      |      |      |      |      |     |
|                                   |   |     |     | 17th | 18th    | 19th  | 20th | 21st | 22nd | 23rd                            | 24th | 25th | 26th | 27th | 28th | 29th | 30th | 31st | 1st |
| January                           | - | 8.4 | 7.4 | 7.9  | 17.430  | 2.880 | 12th | 26   | 6    | 3                               | 0    | 0    | 13   | 5    | 10   | 3    | 0    | 0    | 0   |
| February                          | - | 7.8 | 7.5 | 7.7  | 6.860   | 1.130 | 24th | 23   | 10   | 1                               | 1    | 2    | 12   | 4    | 7    | 5    | 2    | 1    | 7   |
| March                             | - | 7.8 | 5.8 | 6.8  | 5.140   | 1.420 | 15th | 18   | 3    | 3                               | 1    | 0    | 15   | 4    | 0    | 6    | 13   | 11   | 7   |
| April                             | - | 9.1 | 6.7 | 7.9  | 9.370   | 2.970 | 16th | 17   | 1    | 0                               | 0    | 0    | 14   | 5    | 2    | 7    | 14   | 8    | 5   |
| May                               | - | 7.9 | 6.5 | 7.2  | 7.580   | 1.660 | 6th  | 12   | 0    | 0                               | 0    | 1    | 16   | 1    | 0    | 2    | 0    | 0    | 4   |
| June                              | - | 6.8 | 6.3 | 6.6  | 4.060   | 1.040 | 23rd | 18   | 0    | 0                               | 0    | 1    | 13   | 2    | 2    | 1    | 8    | 2    | 4   |
| July                              | - | 8.3 | 6.5 | 7.4  | 10.670  | 1.860 | 26th | 23   | 0    | 0                               | 0    | 2    | 9    | 0    | 8    | 3    | 7    | 5    | 9   |
| August                            | - | 7.0 | 7.0 | 7.0  | 11.910  | 1.750 | 13th | 15   | 0    | 0                               | 0    | 2    | 9    | 0    | 2    | 0    | 9    | 3    | 3   |
| September                         | - | 6.9 | 5.5 | 6.2  | 4.500   | .920  | 28th | 21   | 0    | 3                               | 0    | 3    | 12   | 3    | 2    | 0    | 9    | 3    | 3   |
| October                           | - | 7.5 | 5.7 | 6.6  | 8.480   | 1.800 | 11th | 25   | 3    | 3                               | 2    | 1    | 13   | 7    | 2    | 1    | 1    | 2    | 6   |
| November                          | - | 7.9 | 7.1 | 7.5  | 15.800  | 2.410 | 28th | 25   | 2    | 2                               | 0    | 4    | 13   | 1    | 6    | 4    | 1    | 2    | 3   |
| December                          | - | 7.5 | 5.9 | 6.7  | 6.000   | .960  |      |      |      |                                 |      |      |      |      |      |      |      |      |     |
| Year                              | - | 7.7 | 6.5 | 7.1  | 107.800 | —     |      | 251  | 28   | 18                              | 8    | 18   | 159  | 47   | 41   | 34   | 70   | 39   | 59  |



## BABBICOMBE, DEVON

Long. 3° 31' W. Lat. 50° 29' N. Height above Mean Sea Level, 293 feet.

| 1877.      | Mean<br>Pressure. | Air Temperature. |        |       |          |      |                        |      |      |                          |        | Tension of Vapour. |       |        | Relative Humidity. |       |   |
|------------|-------------------|------------------|--------|-------|----------|------|------------------------|------|------|--------------------------|--------|--------------------|-------|--------|--------------------|-------|---|
|            |                   | 9 a.m.           | 9 p.m. | Mean. | Means of |      | Absolute Min. and Max. |      |      |                          | 9 a.m. | 9 p.m.             | Mean. | 9 a.m. | 9 p.m.             | Mean. |   |
|            |                   |                  |        |       | Min.     | Max. | Min.                   | Day. | Max. | Day.                     |        |                    |       |        |                    |       |   |
|            |                   |                  |        |       |          |      |                        |      |      |                          |        |                    |       |        |                    |       |   |
|            | ins.              | °                | °      | °     | °        | °    | °                      |      |      |                          |        | in.                | in.   | in.    | %                  | %     | % |
| January -  | 29.841            | 45.0             | 44.4   | 44.7  | 39.6     | 50.4 | 32.8                   | 13th | 55.7 | 27th                     | 277    | 264                | 271   | 91.4   | 89.4               | 90.4  |   |
| February - | 30.032            | 46.5             | 44.3   | 45.4  | 41.3     | 51.5 | 28.0                   | 28th | 57.3 | 7th                      | 268    | 263                | 266   | 83.0   | 87.9               | 85.5  |   |
| March -    | 29.802            | 44.6             | 41.3   | 43.0  | 36.8     | 50.0 | 25.2                   | 1st  | 61.1 | 30th                     | 234    | 228                | 231   | 78.3   | 86.2               | 82.3  |   |
| April -    | 731               | 47.3             | 45.3   | 46.3  | 41.9     | 52.2 | 35.0                   | 20th | 64.1 | 21st                     | 281    | 266                | 274   | 85.8   | 87.4               | 86.6  |   |
| May -      | 29.883            | 50.4             | 47.7   | 49.1  | 43.5     | 56.1 | 36.3                   | 3rd  | 63.6 | 31st                     | 282    | 276                | 279   | 76.2   | 83.0               | 79.6  |   |
| June -     | 30.022            | 60.0             | 56.0   | 58.0  | 52.3     | 65.9 | 44.6                   | 25th | 76.0 | 29th                     | 397    | 376                | 387   | 77.3   | 83.3               | 80.3  |   |
| July -     | 29.971            | 61.1             | 56.0   | 58.6  | 51.8     | 66.8 | 44.0                   | 6th  | 77.9 | 29th                     | 409    | 386                | 398   | 76.3   | 85.4               | 80.9  |   |
| August -   | 29.899            | 61.6             | 57.0   | 59.3  | 54.3     | 66.5 | 41.6                   | 24th | 72.8 | <div>17th<br/>20th</div> | 436    | 421                | 429   | 79.8   | 89.5               | 84.7  |   |
| September  | 30.084            | 55.8             | 52.8   | 54.3  | 48.9     | 60.7 | 40.0                   | 5th  | 67.8 | 19th                     | 358    | 347                | 353   | 80.1   | 85.9               | 83.0  |   |
| October -  | 30.051            | 52.8             | 49.3   | 51.1  | 44.8     | 58.3 | 31.3                   | 17th | 65.3 | 14th                     | 326    | 308                | 317   | 81.1   | 86.9               | 84.0  |   |
| November   | 29.699            | 47.4             | 45.5   | 46.5  | 41.3     | 53.7 | 34.6                   | 17th | 60.0 | 1st                      | 292    | 280                | 286   | 88.2   | 90.6               | 89.4  |   |
| December   | 30.097            | 42.2             | 41.9   | 42.1  | 38.1     | 48.1 | 30.9                   | 25th | 53.9 | 29th                     | 244    | 244                | 244   | 89.3   | 90.5               | 89.9  |   |
| Year       | 29.926            | 51.2             | 48.5   | 49.9  | 44.6     | 56.7 | —                      | —    | —    | —                        | 317    | 305                | 311   | 82.2   | 87.2               | 84.7  |   |

## St. AUBIN'S, JERSEY

Long. 2° 10' W. Lat. 49° 11' N. Height above Mean Sea Level, 139 feet.

|           |   | ins.   |      |      |      |      |      |      |                           |      |      | in.  | in.  | in.  | %    | %    | %    |
|-----------|---|--------|------|------|------|------|------|------|---------------------------|------|------|------|------|------|------|------|------|
| January   | - | 29.942 | 47.9 | 47.2 | 47.6 | 43.4 | 51.3 | 35.2 | 22nd                      | 57.2 | 1st  | .283 | .280 | .282 | 84.4 | 85.5 | 85.0 |
| February  | - | 30.115 | 47.4 | 46.3 | 47.0 | 43.3 | 50.9 | 34.2 | 28th                      | 55.2 | 9th  | .276 | .273 | .275 | 83.1 | 84.5 | 83.8 |
| March     | - | 29.850 | 45.3 | 43.0 | 44.2 | 39.2 | 49.1 | 31.8 | 12th                      | 57.7 | 30th | .236 | .241 | .239 | 77.1 | 85.3 | 81.2 |
| April     | - | .768   | 48.7 | 47.0 | 47.9 | 43.8 | 53.3 | 35.3 | 17th                      | 58.8 | 14th | .289 | .281 | .285 | 84.0 | 87.1 | 85.6 |
| May       | - | 29.923 | 52.1 | 48.8 | 50.5 | 45.5 | 55.4 | 39.0 | 3rd                       | 63.9 | 31st | .297 | .292 | .295 | 75.9 | 84.1 | 80.0 |
| June      | - | 30.062 | 62.8 | 57.0 | 59.9 | 52.8 | 68.5 | 47.0 | 7th                       | 77.2 | 30th | .432 | .396 | .414 | 75.5 | 85.1 | 80.3 |
| July      | - | 30.026 | 63.2 | 58.9 | 61.1 | 54.4 | 67.3 | 45.5 | 9th                       | 81.1 | 31st | .465 | .460 | .463 | 80.7 | 92.1 | 86.4 |
| August    | - | 29.974 | 64.5 | 60.2 | 62.4 | 57.1 | 69.7 | 51.6 | 24th                      | 79.0 | 20th | .459 | .444 | .452 | 75.6 | 84.2 | 79.9 |
| September | - | 30.102 | 59.9 | 56.0 | 58.0 | 52.7 | 63.9 | 47.2 | 23rd                      | 70.0 | 14th | .368 | .357 | .363 | 71.3 | 78.7 | 75.0 |
| October   | - | 30.120 | 56.0 | 53.4 | 54.7 | 49.8 | 60.1 | 43.0 | 17th                      | 67.3 | 14th | .337 | .322 | .330 | 74.9 | 78.2 | 76.6 |
| November  | - | 29.810 | 51.4 | 50.2 | 50.8 | 46.6 | 54.9 | 41.5 | {<br>20th<br>26th<br>26th | 59.8 | 6th  | .308 | .306 | .307 | 80.5 | 83.5 | 82.0 |
| December  | - | 30.150 | 46.9 | 46.0 | 46.5 | 42.5 | 50.2 | 36.0 |                           | 10th | 54.9 | 6th  | .269 | .256 | .263 | 83.2 | 82.0 |
| Year      | - | 29.987 | 53.8 | 51.2 | 52.5 | 47.6 | 57.9 | —    | —                         | —    | —    | .335 | .326 | .331 | 78.9 | 84.2 | 81.5 |

## MARKREE CASTLE

Long. 8° 27' W. Lat. 54° 11' N. Height above Mean Sea Level, 131 feet.

|            | ins.   |      |      |      |      |      |      |                              |      |      | in.  | in.  | in.  | %    | %    | %    |
|------------|--------|------|------|------|------|------|------|------------------------------|------|------|------|------|------|------|------|------|
| January -  | 29.613 | 39.4 | 40.4 | 39.9 | 34.4 | 46.6 | 23.9 | 2nd                          | 53.4 | 16th | 22.0 | 23.0 | 22.5 | 90.1 | 90.4 | 90.3 |
| February - | 789    | 43.6 | 42.2 | 42.9 | 38.0 | 48.7 | 26.9 | 28th                         | 54.2 | 6th  | 25.9 | 23.6 | 24.8 | 89.8 | 85.9 | 87.9 |
| March -    | 763    | 41.4 | 40.2 | 40.8 | 34.5 | 49.2 | 24.4 | 19th                         | 57.0 | 2nd  | 23.2 | 22.0 | 22.6 | 87.9 | 87.0 | 87.5 |
| April -    | 704    | 45.6 | 43.7 | 44.7 | 38.6 | 51.4 | 29.8 | 6th                          | 57.0 | 14th | 25.3 | 24.4 | 24.9 | 82.5 | 85.1 | 83.8 |
| May -      | 842    | 49.7 | 46.7 | 48.2 | 39.5 | 56.3 | 29.2 | 5th                          | 61.6 | 21st | 26.9 | 25.9 | 26.4 | 74.2 | 80.7 | 77.5 |
| June -     | 913    | 59.1 | 54.5 | 56.8 | 47.8 | 64.5 | 35.6 | 24th                         | 77.0 | 18th | 37.9 | 36.3 | 37.1 | 75.6 | 84.5 | 80.1 |
| July -     | 842    | 56.8 | 54.0 | 55.4 | 50.1 | 61.9 | 40.9 | 5th                          | 73.4 | 30th | 38.9 | 37.7 | 38.3 | 83.9 | 87.8 | 85.9 |
| August -   | 29.797 | 58.4 | 55.0 | 56.7 | 50.6 | 64.2 | 42.0 | 29th                         | 71.1 | 7th  | 41.2 | 38.3 | 39.8 | 83.8 | 87.7 | 85.8 |
| September  | 30.073 | 54.2 | 50.1 | 53.2 | 44.1 | 59.6 | 34.3 | {<br>2nd<br>8th<br>22nd<br>} | 64.4 | 13th | 35.2 | 31.9 | 33.6 | 83.6 | 87.3 | 85.5 |
| October -  | 29.857 | 55.3 | 48.8 | 50.1 | 44.0 | 56.9 | 31.3 | 26th                         | 63.4 | 4th  | 33.0 | 31.1 | 32.1 | 88.7 | 88.9 | 88.8 |
| November - | 447    | 42.5 | 42.9 | 42.7 | 37.2 | 49.5 | 29.8 | 29th                         | 57.1 | 15th | 24.6 | 25.1 | 24.9 | 89.6 | 89.7 | 89.7 |
| December   | 29.950 | 40.9 | 41.5 | 41.2 | 36.3 | 47.2 | 29.3 | 28th                         | 52.7 | 11th | 23.8 | 24.0 | 23.9 | 91.1 | 90.4 | 90.8 |
| Year -     | 29.808 | 48.5 | 46.7 | 47.8 | 41.3 | 54.7 | —    | —                            | —    | —    | 29.8 | 28.6 | 29.2 | 85.1 | 87.1 | 86.1 |

## BABBICOMBE, DEVON.

Thermometers 4 feet above ground. Rain-gauge 1 foot above ground.

| Thermometers 4 feet above ground. |                  |        |       |           |       |      |                         |       |       |                 |            |           |       | Wind, No. of Observations of |    |      |    |      |     |      |    |      |       |
|-----------------------------------|------------------|--------|-------|-----------|-------|------|-------------------------|-------|-------|-----------------|------------|-----------|-------|------------------------------|----|------|----|------|-----|------|----|------|-------|
| 1877.                             | Amount of Cloud. |        |       | Rainfall. |       |      | Weather, No. of Days of |       |       |                 |            |           |       |                              | N. | N.E. | E. | S.E. | S.  | S.W. | W. | N.W. | Calm. |
|                                   | 9 a.m.           | 3 p.m. | Mean. | Total.    | Max.  | Day. | Rain.                   | Snow. | Hail. | Thunder Storms. | Clear Sky. | Overcast. | Gale. |                              |    |      |    |      |     |      |    |      |       |
|                                   |                  |        |       |           |       |      |                         |       |       |                 |            |           |       |                              |    |      |    |      |     |      |    |      |       |
| January -                         | 7.7              | 6.6    | 7.2   | ins.      | ins.  | 2nd  | 29                      | 2     | 2     | 1               | 0          | 11        | 5     | 1                            | 2  | 1    | 3  | 9    | 23  | 16   | 3  | 4    |       |
| February -                        | 6.6              | 6.6    | 6.6   | 1.610     | .260  | 12th | 18                      | 3     | 4     | 0               | 2          | 14        | 3     | 6                            | 2  | 0    | 0  | 1    | 15  | 21   | 10 | 1    |       |
| March -                           | 6.1              | 5.2    | 5.7   | 2.670     | .700  | 24th | 22                      | 5     | 8     | 1               | 5          | 8         | 1     | 8                            | 5  | 1    | 4  | 5    | 11  | 17   | 9  | 2    |       |
| April -                           | 9.0              | 6.4    | 7.7   | 5.800     | 1.940 | 15th | 19                      | 2     | 4     | 1               | 0          | 14        | 7     | 3                            | 12 | 12   | 7  | 7    | 10  | 3    | 5  | 1    |       |
| May -                             | 7.0              | 5.3    | 6.2   | 3.280     | .720  | 16th | 19                      | 0     | 0     | 0               | 2          | 11        | 3     | 5                            | 10 | 11   | 5  | 5    | 11  | 8    | 3  | 4    |       |
| June -                            | 6.6              | 5.6    | 6.1   | 1.240     | .360  | 21st | 11                      | 0     | 0     | 1               | 4          | 9         | 1     | 1                            | 10 | 9    | 4  | 1    | 16  | 10   | 5  | 4    |       |
| July -                            | 8.0              | 5.7    | 6.9   | 2.430     | .800  | 14th | 12                      | 0     | 0     | 0               | 1          | 15        | 0     | 1                            | 1  | 3    | 0  | 2    | 16  | 22   | 13 | 4    |       |
| August -                          | 7.2              | 5.7    | 6.5   | 4.000     | .870  | 7th  | 18                      | 0     | 0     | 2               | 2          | 10        | 1     | 1                            | 2  | 5    | 2  | 9    | 14  | 20   | 6  | 3    |       |
| September                         | 6.5              | 5.1    | 5.8   | 2.430     | 1.140 | 2nd  | 8                       | 0     | 0     | 0               | 5          | 12        | 3     | 9                            | 13 | 9    | 1  | 2    | 8   | 4    | 9  | 5    |       |
| October -                         | 6.5              | 4.2    | 5.4   | 2.460     | .450  | 28th | 16                      | 0     | 1     | 0               | 1          | 7         | 4     | 1                            | 1  | 1    | 0  | 5    | 28  | 18   | 3  | 3    |       |
| November                          | 6.2              | 5.7    | 6.0   | 7.540     | 1.250 | 11th | 25                      | 1     | 1     | 0               | 4          | 10        | 1     | 5                            | 4  | 1    | 1  | 3    | 12  | 20   | 7  | 9    |       |
| December                          | 6.4              | 5.8    | 6.1   | 1.800     | .460  | 5th  | 19                      | 1     | 1     | 0               | 4          | 10        | 1     | 5                            | 4  | 1    | 1  | 3    | 12  | 20   | 7  | 9    |       |
| Year                              | 7.0              | 5.7    | 6.4   | 43.150    | —     | —    | 216                     | 14    | 24    | 7               | 31         | 127       | 31    | 46                           | 68 | 56   | 29 | 53   | 183 | 175  | 75 | 45   |       |



## DUBLIN

Long. 6° 15' W. Lat. 53° 20' N. Height above Mean Sea Level, 51 feet.

| 1877.               | Mean Pressure. | Air Temperature. |        |       |          |      |                        |      |      |      | Tension of Vapour. |        |       | Relative Humidity. |        |       |  |
|---------------------|----------------|------------------|--------|-------|----------|------|------------------------|------|------|------|--------------------|--------|-------|--------------------|--------|-------|--|
|                     |                | 9 a.m.           | 9 p.m. | Mean. | Means of |      | Absolute Min. and Max. |      |      |      | 9 a.m.             | 9 p.m. | Mean. | 9 a.m.             | 9 p.m. | Mean. |  |
|                     |                |                  |        |       | Min.     | Max. | Min.                   | Day. | Max. | Day. |                    |        |       |                    |        |       |  |
| At 32° F.           | ins.           |                  |        |       |          |      |                        |      |      |      |                    |        |       |                    |        |       |  |
| 29.624620 January   | 29.697         | 43.1             | 43.5   | 43.3  | 38.4     | 49.0 | 30.9                   | 13th | 54.1 | 16th | 237                | 239    | 238   | 84.7               | 83.9   | 84.3  |  |
| 29.649541 February  | 931            | 44.1             | 43.9   | 44.0  | 40.2     | 49.2 | 27.4                   | 28th | 57.2 | 15th | 249                | 242    | 246   | 84.1               | 82.1   | 83.1  |  |
| 29.646927 March     | 771            | 42.0             | 41.6   | 41.8  | 36.7     | 48.2 | 27.9                   | 1st  | 57.2 | 13th | 229                | 226    | 228   | 83.9               | 84.6   | 84.3  |  |
| 29.646583 April     | 735            | 46.7             | 45.1   | 45.9  | 41.8     | 50.4 | 36.0                   | 24th | 57.6 | 2nd  | 267                | 252    | 260   | 83.5               | 83.3   | 83.4  |  |
| 29.647435 May       | 870            | 50.6             | 48.5   | 49.6  | 44.1     | 55.3 | 33.9                   | 5th  | 63.5 | 26th | 271                | 272    | 272   | 72.5               | 79.1   | 75.8  |  |
| 29.648844 June      | 960            | 60.5             | 56.9   | 58.7  | 51.9     | 65.0 | 44.0                   | 24th | 72.3 | 28th | 381                | 363    | 372   | 71.9               | 78.2   | 75.1  |  |
| 29.649808 July      | 884            | 59.7             | 57.3   | 58.5  | 52.9     | 64.8 | 44.6                   | 7th  | 72.5 | 30th | 387                | 392    | 390   | 75.2               | 82.5   | 78.9  |  |
| 29.647633 August    | 29.829         | 59.0             | 57.2   | 58.1  | 53.3     | 63.8 | 42.9                   | 23rd | 70.8 | 19th | 416                | 409    | 413   | 82.7               | 86.6   | 84.7  |  |
| 30.007016 September | 30.093         | 53.2             | 52.2   | 52.7  | 48.0     | 58.7 | 38.8                   | 22nd | 65.7 | 13th | 339                | 340    | 340   | 82.9               | 86.7   | 84.8  |  |
| 29.642351 October   | 29.928         | 50.9             | 49.7   | 50.3  | 45.4     | 56.9 | 36.0                   | 18th | 66.1 | 14th | 322                | 307    | 315   | 85.2               | 85.6   | 85.4  |  |
| 29.641550 November  | 29.527         | 44.5             | 45.6   | 45.1  | 40.8     | 51.1 | 32.9                   | 24th | 60.4 | 15th | 246                | 262    | 254   | 83.3               | 84.7   | 84.0  |  |
| 29.956925 December  | 30.004         | 41.7             | 42.4   | 42.1  | 37.7     | 47.0 | 30.2                   | 28th | 53.7 | 12th | 235                | 245    | 240   | 87.8               | 88.5   | 88.2  |  |
| 29.775 Year         | 29.852         | 49.7             | 48.7   | 49.2  | 44.3     | 55.0 | —                      | —    | —    | —    | 298                | 296    | 297   | 81.5               | 83.8   | 82.7  |  |

## BIRR CASTLE, PARSONSTOWN

Long. 7° 55' W. Lat. 53° 6' N. Height above Mean Sea Level, 182 feet.

| At 32° F.          |   | ins.   |      |      |      |      |      |      |      |      | in.  | in. | in. | %   | %    | %    |      |
|--------------------|---|--------|------|------|------|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| 29.476/ January -  | - | 29.676 | 40.4 | 40.7 | 40.6 | 35.3 | 48.2 | 25.3 | 2nd  | 53.3 | 16th | 233 | 234 | 234 | 91.6 | 90.9 | 91.3 |
| 755/ February -    | - | 936    | 43.8 | 42.8 | 43.3 | 39.0 | 49.9 | 22.9 | 28th | 56.6 | 14th | 265 | 248 | 257 | 90.9 | 87.8 | 89.4 |
| 569/ March -       | - | 790    | 42.2 | 40.2 | 41.2 | 34.7 | 49.6 | 24.6 | 19th | 59.1 | 13th | 236 | 227 | 232 | 86.5 | 89.6 | 88.1 |
| 500/ April -       | - | 698    | 46.6 | 44.1 | 45.4 | 40.0 | 53.2 | 32.0 | 6th  | 61.2 | 14th | 267 | 254 | 261 | 83.4 | 87.5 | 85.5 |
| 660/ May -         | - | 857    | 51.6 | 47.1 | 49.4 | 42.0 | 57.7 | 28.1 | 5th  | 63.5 | 26th | 291 | 276 | 284 | 75.9 | 85.3 | 80.6 |
| 749/ June -        | - | 944    | 59.4 | 56.3 | 57.9 | 51.9 | 66.5 | 40.8 | 4th  | 80.5 | 18th | 415 | 403 | 409 | 81.0 | 88.0 | 84.5 |
| 695/ July -        | - | 889    | 58.7 | 55.2 | 57.0 | 51.8 | 64.0 | 41.2 | 6th  | 72.6 | 29th | 408 | 395 | 402 | 82.7 | 89.9 | 86.3 |
| 628/ August -      | - | 29.822 | 59.5 | 55.5 | 57.5 | 52.6 | 65.3 | 38.0 | 23rd | 73.3 | 15th | 427 | 412 | 420 | 83.3 | 92.6 | 88.0 |
| 893/ September -   | - | 30.091 | 54.4 | 50.2 | 52.3 | 44.5 | 60.3 | 31.0 | 22nd | 66.2 | 11th | 355 | 340 | 348 | 83.7 | 92.8 | 88.3 |
| 725/ October -     | - | 29.923 | 50.6 | 49.2 | 49.9 | 44.8 | 58.0 | 32.3 | 17th | 66.4 | 1st  | 344 | 326 | 335 | 91.9 | 91.9 | 91.9 |
| 334/ November -    | - | 29.532 | 42.9 | 43.1 | 43.0 | 37.8 | 50.4 | 29.2 | 24th | 57.8 | 15th | 256 | 265 | 261 | 91.4 | 93.4 | 92.4 |
| 29.813/ December - | - | 30.015 | 39.9 | 40.4 | 40.2 | 34.8 | 47.9 | 24.4 | 3rd  | 57.7 | 5th  | 235 | 244 | 240 | 93.0 | 94.9 | 94.0 |
| 29.651 Year -      | - | 29.849 | 49.2 | 47.1 | 48.1 | 42.4 | 55.9 | —    | —    | —    | —    | 311 | 302 | 307 | 86.3 | 90.4 | 88.4 |

## DUBLIN.

Thermometers 4 feet above ground. Rain-gauge 3 feet 4 inches above ground.

| 1877.       | Amount of Cloud. |        |       | Rainfall. |       |      | Weather, No. of Days of |       |       |                 |            |           |       |    | Wind, No. of Observations of |      |    |      |     |      |    |      |       |
|-------------|------------------|--------|-------|-----------|-------|------|-------------------------|-------|-------|-----------------|------------|-----------|-------|----|------------------------------|------|----|------|-----|------|----|------|-------|
|             | 9 a.m.           | 9 p.m. | Mean. | Total.    | Max.  | Day. | Rain.                   | Snow. | Hail. | Thunder Storms. | Clear Sky. | Overcast. | Gale. |    | N.                           | N.E. | E. | S.E. | S.  | S.W. | W. | N.W. | Calm. |
|             |                  |        |       |           |       |      |                         |       |       |                 |            |           |       |    |                              |      |    |      |     |      |    |      |       |
| January -   | 7.0              | 5.9    | 6.5   | ins.      | ins.  | 3rd  | 25                      | 3     | 2     | 0               | 1          | 9         | 2     | 1  | 0                            | 3    | 6  | 11   | 19  | 14   | 5  | 3    | 0     |
| February -  | 6.9              | 5.9    | 6.4   | 1.560     | 4.21  | 13th | 19                      | 3     | 5     | 0               | 2          | 10        | 1     | 2  | 0                            | 1    | 2  | 6    | 33  | 12   | 8  | 0    | 0     |
| March -     | 6.1              | 4.8    | 5.5   | 2.741     | 1.150 | 24th | 20                      | 4     | 8     | 1               | 2          | 8         | 3     | 4  | 3                            | 2    | 4  | 1    | 4   | 22   | 14 | 8    | 0     |
| April -     | 8.4              | 6.6    | 7.5   | 4.707     | 1.095 | 15th | 21                      | 1     | 4     | 0               | 0          | 15        | 2     | 3  | 7                            | 18   | 14 | 6    | 0   | 8    | 1  | 3    | 0     |
| May -       | 7.2              | 5.4    | 6.3   | 2.343     | 4.40  | 16th | 18                      | 0     | 1     | 1               | 0          | 8         | 1     | 4  | 11                           | 16   | 5  | 4    | 6   | 13   | 2  | 1    | 0     |
| June -      | 6.1              | 5.3    | 5.7   | 0.921     | 2.37  | 6th  | 12                      | 0     | 0     | 2               | 4          | 6         | 0     | 1  | 8                            | 9    | 2  | 6    | 10  | 18   | 3  | 3    | 0     |
| July -      | 7.4              | 6.5    | 7.0   | 3.300     | 7.70  | 15th | 25                      | 0     | 3     | 3               | 1          | 13        | 0     | 3  | 0                            | 0    | 1  | 3    | 9   | 31   | 12 | 3    | 0     |
| August -    | 7.8              | 6.5    | 7.2   | 3.536     | 6.25  | 18th | 24                      | 0     | 0     | 1               | 0          | 12        | 0     | 3  | 0                            | 7    | 8  | 9    | 5   | 14   | 12 | 4    | 0     |
| September - | 6.2              | 5.1    | 5.7   | 1.795     | 6.50  | 14th | 10                      | 0     | 1     | 0               | 1          | 2         | 1     | 2  | 0                            | 0    | 2  | 12   | 12  | 18   | 9  | 7    | 0     |
| October -   | 6.2              | 4.1    | 5.2   | 2.153     | 6.39  | 15th | 16                      | 1     | 1     | 0               | 2          | 3         | 1     | 0  | 1                            | 0    | 0  | 7    | 24  | 22   | 2  | 4    | 0     |
| November -  | 5.3              | 5.7    | 5.5   | 2.438     | 5.69  | 21st | 22                      | 0     | 1     | 0               | 1          | 9         | 1     | 0  | 0                            | 0    | 3  | 6    | 11  | 29   | 8  | 5    | 0     |
| December -  | 6.5              | 6.1    | 6.3   | 2.330     | 5.70  | 28th | 17                      | 6     | 4     | 0               | 1          | 9         | 1     | 0  | 0                            | 0    | 0  | 0    | 0   | 0    | 0  | 0    | 0     |
| Year -      | 6.8              | 5.7    | 6.2   | 32.146    | —     | —    | 229                     | 18    | 30    | 8               | 15         | 101       | 13    | 31 | 34                           | 62   | 53 | 68   | 110 | 231  | 97 | 44   | 0     |

## BIRR CASTLE, PARSONSTOWN.

Thermometers 3 feet 6 inches above ground. Rain-gauge 8 inches above ground.

| 1877.       | Amount of Cloud. |        |       | Rainfall. |       |      | Weather, No. of Days of |       |       |                 |            |           |       |    | Wind, No. of Observations of |      |     |      |     |      |    |      |       |
|-------------|------------------|--------|-------|-----------|-------|------|-------------------------|-------|-------|-----------------|------------|-----------|-------|----|------------------------------|------|-----|------|-----|------|----|------|-------|
|             | 9 a.m.           | 9 p.m. | Mean. | Total.    | Max.  | Day. | Rain.                   | Snow. | Hail. | Thunder Storms. | Clear Sky. | Overcast. | Gale. |    | N.                           | N.E. | E.  | S.E. | S.  | S.W. | W. | N.W. | Calm. |
|             |                  |        |       |           |       |      |                         |       |       |                 |            |           |       |    |                              |      |     |      |     |      |    |      |       |
| January -   | 7.2              | 7.2    | 7.2   | ins.      | ins.  | 23rd | 30                      | 1     | 3     | 0               | 1          | 15        | 0     | 0  | 0                            | 7    | 17  | 12   | 9   | 8    | 4  | 5    | 28    |
| February -  | 7.8              | 7.9    | 7.9   | 2.320     | 3.78  | 13th | 26                      | 0     | 1     | 0               | 1          | 17        | 0     | 2  | 0                            | 0    | 3   | 4    | 19  | 19   | 8  | 1    | 20    |
| March -     | 6.9              | 6.5    | 6.7   | 2.649     | 6.16  | 2nd  | 28                      | 2     | 1     | 0               | 3          | 14        | 0     | 1  | 2                            | 0    | 11  | 3    | 10  | 17   | 9  | 9    | 21    |
| April -     | 8.6              | 8.2    | 8.4   | 3.006     | 4.74  | 8th  | 23                      | 0     | 1     | 0               | 0          | 21        | 0     | 0  | 4                            | 15   | 22  | 2    | 4   | 5    | 3  | 5    | 23    |
| May -       | 7.3              | 6.6    | 7.0   | 2.075     | 4.89  | 27th | 15                      | 0     | 0     | 0               | 1          | 11        | 0     | 3  | 8                            | 7    | 15  | 1    | 10  | 8    | 5  | 5    | 14    |
| June -      | 7.7              | 7.5    | 7.6   | 3.733     | 1.407 | 21st | 16                      | 0     | 0     | 0               | 2          | 16        | 0     | 2  | 3                            | 2    | 7   | 5    | 15  | 10   | 4  | 12   | 15    |
| July -      | 8.8              | 7.9    | 8.4   | 2.316     | 7.39  | 15th | 24                      | 0     | 0     | 0               | 0          | 20        | 0     | 1  | 0                            | 0    | 4   | 5    | 22  | 16   | 9  | 5    | 20    |
| August -    | 8.7              | 7.7    | 8.2   | 4.372     | 5.71  | 1st  | 24                      | 0     | 0     | 0               | 0          | 20        | 0     | 1  | 1                            | 4    | 12  | 4    | 15  | 7    | 7  | 11   | 23    |
| September - | 7.1              | 6.8    | 7.0   | 2.580     | 9.60  | 11th | 10                      | 0     | 0     | 0               | 1          | 13        | 0     | 7  | 4                            | 2    | 5   | 3    | 7   | 3    | 13 | 16   | 9     |
| October -   | 8.3              | 7.1    | 7.7   | 3.502     | 7.39  | 28th | 21                      | 0     | 1     | 1               | 1          | 18        | 0     | 1  | 1                            | 1    | 8   | 15   | 15  | 9    | 2  | 10   | 218   |
| November -  | 6.8              | 7.2    | 7.0   | 5.435     | 7.58  | 11th | 29                      | 0     | 0     | 0               | 2          | 14        | 0     | 0  | 0                            | 0    | 7   | 11   | 27  | 9    | 3  | 3    | 26    |
| December -  | 7.4              | 6.0    | 6.7   | 3.353     | 5.10  | 28th | 28                      | 1     | 0     | 0               | 2          | 13        | 0     | 0  | 0                            | 1    | 6   | 6    | 15  | 20   | 4  | 10   | 23    |
| Year -      | 7.7              | 7.2    | 7.5   | 40.080    | —     | —    | 274                     | 4     | 7     | 3               | 14         | 192       | 0     | 18 | 23                           | 39   | 117 | 71   | 168 | 131  | 71 | 92   | 243   |



## OBSERVATIONS FROM STATIONS OF THE SECOND ORDER.

ANNUAL

Of OBSERVATIONS taken at 9 a.m. and 9 p.m. each day,  
1877.

| Stations. |                              |       |      |                |        |        |       |          |      | Air Temperature.       |       |      |       |        |        |       |        |        |       | Tension of Vapour. |  |  | Relative Humidity. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 1877.     | Height above Mean Sea Level. | Long. | Lat. | Mean Pressure. |        |        |       | Means of |      | Absolute Min. and Max. |       |      |       | 9 a.m. | 9 p.m. | Mean. | 9 a.m. | 9 p.m. | Mean. |                    |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|           |                              |       |      |                | 9 a.m. | 9 p.m. | Mean. | Min.     | Max. | Min.                   | Date. | Max. | Date. |        |        |       |        |        |       |                    |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|           | feet.                        |       |      |                | ins.   |        |       |          |      |                        |       |      |       |        |        |       |        |        |       |                    |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

\* At Durham the observations were

## ANNUAL SUMMARY.

## SUMMARY

local time, at BRITISH STATIONS OF THE SECOND ORDER.

1877.

| Amount of Cloud. |        |       | Rainfall.       |                |                                | Weather, No. of days of |       |       |                 |            |           |       | Wind, No. of Observations of. |      |     |      |     |      |     |      |       |                      | Stations. |  |
|------------------|--------|-------|-----------------|----------------|--------------------------------|-------------------------|-------|-------|-----------------|------------|-----------|-------|-------------------------------|------|-----|------|-----|------|-----|------|-------|----------------------|-----------|--|
| 9 a.m.           | 9 p.m. | Mean. | Total.          | Max.           | Date.                          | Rain.                   | Snow. | Hail. | Thunder Storms. | Clear Sky. | Overcast. | Gale. | N.                            | N.E. | E.  | S.E. | S.  | S.W. | W.  | N.W. | Calm. | 1877.                |           |  |
| 6° 4'            | 6° 3'  | 6° 3' | ins.<br>40° 770 | ins.<br>1° 220 | Nov. 29th -                    | 258                     | 44    | 15    | 2               | 41         | 128       | 43    | 53                            | 35   | 64  | 94   | 91  | 87   | 119 | 111  | 76    | Sandwich.            |           |  |
| —                | —      | —     | 60° 641         | 1° 940         | Aug. 20th -                    | —                       | —     | —     | —               | —          | —         | —     | —                             | —    | —   | —    | —   | —    | —   | —    | —     | Glenalmond.          |           |  |
| 6° 3'            | 5° 5'  | 5° 9' | 32° 094         | 1° 010         | April 9th -                    | 212                     | 17    | 12    | 12              | 51         | 118       | 4     | 67                            | 38   | 48  | 36   | 114 | 134  | 137 | 64   | 92    | Seaham.              |           |  |
| 7° 0'            | 6° 3'  | 6° 7' | 44° 693         | 1° 642         | Mar. 25th -                    | 202                     | 22    | 4     | 11              | 31         | 152       | 3     | 43                            | 73   | 48  | 44   | 164 | 133  | 108 | 98   | 19    | Durham.*             |           |  |
| 8° 2'            | 7° 1'  | 7° 7' | 76° 600         | 2° 140         | Jan. 20th -                    | 266                     | 43    | 32    | 17              | 20         | 207       | 2     | 23                            | 26   | 102 | 23   | 25  | 141  | 209 | 41   | 140   | Hawes.               |           |  |
| 6° 5'            | 5° 0'  | 5° 8' | 30° 000         | 1° 700         | Aug. 25th -                    | 217                     | 8     | 0     | 5               | 51         | 111       | 8     | 19                            | 73   | 31  | 40   | 44  | 183  | 106 | 117  | 117   | Hull.                |           |  |
| 6° 5'            | —      | —     | 33° 010         | 1° 060         | Jan. 3rd -                     | 204                     | 3     | 9     | 11              | 24         | 108       | 4     | 48                            | 35   | 46  | 26   | 79  | 113  | 171 | 50   | 162   | Wakefield.           |           |  |
| —                | —      | —     | —               | 1° 860         | July 15th -                    | —                       | —     | —     | —               | —          | —         | —     | —                             | —    | —   | —    | —   | —    | —   | —    | —     | Prestwich.           |           |  |
| 6° 6'            | 5° 7'  | 6° 2' | 33° 642         | 1° 742         | Sept. 3rd -                    | 216                     | 19    | 1     | 14              | 47         | 128       | 5     | 45                            | 60   | 58  | 45   | 87  | 183  | 129 | 86   | 37    | Kelstern.            |           |  |
| 7° 1'            | 6° 2'  | 6° 6' | 47° 340         | 1° 780         | Sept. 14th -                   | 223                     | 6     | 31    | 8               | 43         | 157       | 16    | 50                            | 31   | 110 | 34   | 53  | 104  | 290 | 58   | 0     | Llandudno.           |           |  |
| 7° 8'            | 7° 8'  | 7° 8' | 64° 958         | 1° 970         | July 14th -                    | 237                     | 38    | 6     | 10              | 5          | 191       | 11    | 36                            | 34   | 71  | 55   | 24  | 108  | 180 | 191  | 31    | Buxton.              |           |  |
| 7° 6'            | 6° 5'  | 7° 0' | 41° 030         | 1° 950         | July 14th -                    | 233                     | 23    | 10    | 27              | 29         | 164       | 21    | 55                            | 75   | 46  | 56   | 97  | 144  | 92  | 117  | 48    | Cheadle.             |           |  |
| 7° 1'            | 6° 1'  | 6° 6' | 27° 658         | 1° 050         | Jan. 3rd -                     | 212                     | 19    | 14    | 17              | 32         | 141       | 16    | 42                            | 72   | 40  | 63   | 53  | 237  | 80  | 126  | 17    | Hillington.          |           |  |
| 7° 7'            | 6° 2'  | 7° 0' | 25° 960         | 1° 870         | April 9th -                    | 198                     | 18    | 0     | 2               | 30         | 176       | 20    | 48                            | 95   | 32  | 35   | 77  | 204  | 136 | 66   | 37    | Leicester.           |           |  |
| 7° 5'            | 6° 3'  | 6° 9' | 26° 196         | 1° 360         | Jan. 3rd -                     | 195                     | 20    | 8     | 10              | 26         | 161       | 24    | 47                            | 64   | 37  | 22   | 85  | 165  | 136 | 107  | 67    | Uppingham.           |           |  |
| 8° 0'            | 6° 4'  | 7° 2' | 28° 230         | 2° 020         | July 14th -                    | 194                     | 25    | 10    | 12              | 26         | 199       | 31    | 57                            | 83   | 45  | 31   | 151 | 168  | 102 | 71   | 22    | Oscott.              |           |  |
| 6° 6'            | 5° 8'  | 6° 2' | 34° 975         | 1° 560         | July 14th -                    | 214                     | 26    | 11    | 10              | 30         | 98        | 8     | 26                            | 36   | 38  | 72   | 88  | 156  | 105 | 64   | 145   | Churchstoke.         |           |  |
| 7° 0'            | 5° 4'  | 6° 2' | 29° 042         | 1° 994         | Nov. 11th -                    | 226                     | 14    | 1     | 7               | 39         | 120       | 0     | 30                            | 29   | 41  | 29   | 61  | 77   | 120 | 47   | 296   | Hereford.            |           |  |
| 6° 8'            | 5° 0'  | 5° 9' | 27° 340         | 1° 850         | { June 30th }<br>{ Nov. 11th } | 218                     | 22    | 12    | 26              | 37         | 122       | 0     | 25                            | 75   | 6   | 43   | 29  | 195  | 94  | 160  | 94    | Audley End.          |           |  |
| 7° 0'            | 6° 1'  | 6° 6' | 63° 260         | 1° 770         | May 27th -                     | 247                     | 9     | 18    | 7               | 33         | 145       | 1     | 60                            | 20   | 80  | 37   | 45  | 152  | 117 | 49   | 170   | Carmarthen.          |           |  |
| 7° 0'            | 6° 3'  | 6° 7' | 27° 180         | 1° 740         | April 8th -                    | 162                     | 16    | 16    | 18              | 25         | 123       | 1     | 75                            | 51   | 78  | 50   | 74  | 194  | 98  | 69   | 41    | Chigwell Row.        |           |  |
| 7° 1'            | 5° 8'  | 6° 5' | 41° 738         | 1° 954         | July 14th -                    | 208                     | 11    | 9     | 7               | 46         | 144       | 7     | 56                            | 24   | 40  | 14   | 67  | 153  | 147 | 40   | 189   | Marlborough.         |           |  |
| 6° 6'            | 5° 8'  | 6° 2' | 28° 253         | 1° 038         | June 21st -                    | 180                     | 14    | 4     | 21              | 47         | 138       | 0     | 45                            | 52   | 33  | 51   | 61  | 156  | 153 | 99   | 80    | Strathfield Turgiss. |           |  |
| —                | —      | —     | 30° 764         | 1° 262         | Nov. 29th -                    | —                       | —     | —     | —               | —          | —         | —     | —                             | —    | —   | —    | —   | —    | —   | —    | —     | Ramsgate.            |           |  |
| —                | —      | —     | 35° 410         | 1° 490         | June 11th -                    | —                       | —     | —     | —               | —          | —         | —     | —                             | —    | —   | —    | —   | —    | —   | —    | —     | Folkestone.          |           |  |
| 6° 3'            | 5° 6'  | 6° 0' | 39° 110         | 1° 710         | June 11th -                    | 215                     | 7     | 15    | 18              | 73         | 131       | 41    | 75                            | 122  | 32  | 21   | 76  | 183  | 144 | 59   | 18    | Hastings.            |           |  |
| 7° 7'            | 6° 5'  | 7° 1' | 107° 800        | 2° 970         | April 15th -                   | 251                     | 28    | 18    | 8               | 18         | 159       | 47    | 41                            | 34   | 70  | 39   | 59  | 139  | 114 | 131  | 103   | Dartmoor.            |           |  |
| 7° 0'            | 5° 7'  | 6° 4' | 43° 150         | 1° 940         | April 15th -                   | 216                     | 14    | 24    | 7               | 31         | 127       | 31    | 46                            | 68   | 56  | 29   | 53  | 183  | 175 | 75   | 45    | Babbicombe.          |           |  |
| 7° 0'            | 5° 2'  | 6° 1' | 35° 211         | 1° 930         | Jan. 8th -                     | 240                     | 1     | 35    | 10              | 39         | 120       | 13    | 45                            | 96   | 45  | 43   | 57  | 168  | 115 | 77   | 84    | St. Aubin's.         |           |  |
| 7° 9'            | 7° 6'  | 7° 8' | 43° 047         | 1° 882         | Oct. 14th -                    | 302                     | 13    | 32    | 9               | 6          | 188       | 1     | 56                            | 34   | 53  | 113  | 85  | 128  | 69  | 116  | 76    | Markree Castle.      |           |  |
| 6° 8'            | 5° 7'  | 6° 2' | 32° 146         | 1° 150         | Mar. 24th -                    | 229                     | 18    | 30    | 8               | 15         | 101       | 13    | 31                            | 34   | 62  | 53   | 68  | 110  | 231 | 97   | 44    | Dublin.              |           |  |
| 7° 7'            | 7° 2'  | 7° 5' | 40° 080         | 1° 407         | June 21st -                    | 274                     | 4     | 7     | 3               | 14         | 192       | 0     | 18                            | 23   | 39  | 117  | 71  | 168  | 131 | 71   | 92    | Parsonstown.         |           |  |



