

1847	Morning 22 hours				Wind		Rain		
January	E	A	Bar	Hyg ²	Wind	Force	Squan	Globe	
1	41	41.9	29.892	40.73	SE	4			ov
2	36.2	38.7	29.478	35.53	E	5	0.010	0.017	ov
3	41.2	39	29.324	34.3	SE	6			ov
4	42.7	41	29.540	42.53	E	4	0.280	0.355	r
5	44.7	41.6	29.764	44.43	SE	3	0.580	0.605	om
6	46.8	46	29.718	45.63	SE	8			ogmd
7	45	46.1	29.780	45.3	SE	7			omdg
8	41.9	42.5	30.004	41.8	SSE	7	0.002	0.011	o.m
9	40.2	41.8	29.950	40.13	SE	5			o.m
10	39.2	40.2	29.861	39.13	SE	3			o.m
11	38.415	41	29.760	38.23	SSE	2			o.m
12	38.37	38.5	29.663	38.23	SE	1			b.c.m
13	44.9	41.5	29.648	43.53	SE	4			o.m
14	46	44.4	29.554	45.23	SE	10	0.008	0.030	o.r A heavy gale in the night
15	38.5	41	29.848	37.3		0	0.084	0.160	o.m
16	38	41	29.908	36.33	NE	2			o
17	37.1	40.1	29.912	37.2	E	3	0.001	0.001	o.m
18	37.9	39.2	29.902	37.03	SSE	5	0.211	0.250	o.m.r
19	38	39.5	29.761	38.53	ESE	4	0.210	0.247	o.m
20	39.5	40	29.472	39.53	ESE	5	0.197	0.380	o.v
21	45-	44	29.350	43.43	SSE	5	0.097	0.220	o.v
22	42.5	45.7	29.273	43.13	SSE	6	0.081	0.148	o.m
23	46.5	43.2	28.420	45.23	SSE	11	0.090	0.208	o.r
24	39.9	39.5	28.571	37.63	S	7	0.011	0.046	o.r a heavy gale
25	43-	42.7	28.893	42.83	SW	5	0.176	0.038	b.m.c.
26	41.2	44.8	28.894	40.53	SW	3	0.097	0.176	b.m.c. a large Group of Solar Spots
27	38.9	41-	28.767	38.93	WSW	1	0.047	0.054	b.c.v. snow on hills
28	39.8	38.9	29.069	39.93	SW	3	0.024	0.047	b.c.v.
29	39-	40.5	29.441	39.13	NW	2	0.012	0.015	b.c.v. ice all over roof
30	33.4	38-	29.641	32.43	NW	1			b.c.v.m. slight snow
31	35.-	36.2	29.657	34.13	NW	2	0.008	0.016	b.c.m
	40.69	41.28	29.507				2.206	3.027	

1847	Evening 10 hours				Wind		Ther			
January	E	A	Bar	Hg	Dir	Force	max	min		
♀	1	41.2	41	30.060	40.53	N.E	2	44	40.2	f
	2	36.2	41.1	29.668	36.3	E	5	41.8	35	ov
○	3	38	38	29.444	37.63	S.E.S	6	41.4	35	ov
	4	41.9	40.6	29.452	41.63	S.E	6	44	41	ogv
	5	42.6	41	29.614	42.43	N.E	1	45.4	41.5	r
	6	44.2	43.3	29.754	43.63	S.S.E	7	47	43.4	ogv
	7	45.4	43.8	29.668	43.43	S.E	8	48.8	44.8	ogv
	8	44.1	43.7	29.900	44.63	E.S.E	7	44.9	34.1	odg
	9	42	42.1	30.028	42.33	S.W.E	6	43.2	40	o
○	10	39.9	40.8	29.880	39.53	S.S.E	7	41	38	o
	11	41	40.5	29.784	40.53	E.S.E	3	41.5	39	o
	12	34.9	39.8	29.718	32.4	—	0	42	32.5	b.m
	13	39	39.1	29.640	37.23	S.S.E	5	44.9	36	o
	14	45.1	43.	29.670	45.3	S.W.E	7	46	45	o
	15	44.8	44.1	29.680	44.83	S	3	47	31	b.c.m
	16	39.5	42.	29.908	39.33	E	3	42.8	37.5	o
○	17	37.5	40.	29.866	37.63	E.S.E	1	39.9	36	o
	18	37.8	39.2	29.930	37.23	E	3	38.8	36.5	o
	19	39.8	39.1	29.820	38.53	S.S.E	6	39	36.5	o.d
	20	39	39.8	29.640	38.23	E	5	41	38	o.r
	21	42.1	40.2	29.416	42.33	E.W.S	6	46.4	39.5	o
	22	45	43.5	29.280	44.23	S.E.S	9	47.1	42.5	o.r
	23	42.1	41	29.136	41.23	S.W.E	6	46.2	40	b.o.
○	24	39.5	41	28.710	38.13	S.W	5	50.8	36	o.d
	25	41.9	42.1	28.623	41.33	S.S.W	5	59.2	32.5	b.c.v
	26	40.8	41.2	28.426	40.33	S.E	2	45.7	39.5	og at times quite still & wind heard below
	27	38.8	41.5	28.708	38.33	W	1	44.5	38.8	o.v an. taken away & ribb ⁿ on stick used
	28	37.7	40.	28.926	37.23	S	4	42.2	33.5	o.v
	29	38.6	41—	29.221	38.33	S.W	3	44.5	35.5	b.c.v
	30	35.3	40—	29.648	35.53	N.	1	43.8	32—	b.c.v
○	31	33.7	37.	29.700	33.6	N	1	38.2	30	b
		40.27	40.98	29.513				44.3	37.3	

1847	Morning			Wind		Rain			
February	E	A	Bar	Hyg?	Direct	Force	Square	Globe	
1	32.9	36.9	29.934	32.8 } 31.8 }	—	—	—	—	
2	34.6	35.3	29.964	34.3 } 32.9 }	N E	1	—	—	
3	37.5	37.1	30.069	37.2 } 36.9 }	W	1	0.036	0.065	o m
4	40.2	38.3	29.950	39.8 } 38.9 }	W S	3	0.002	0.029	o v r
5	46	41.5	29.467	46.9 } 46.4 }	WNW	3	0.001	0.034	o c v
6	31.5	38.5	29.381	31.1 } 32.1 }	NE	1	—	—	o m snow
7	32.4	36	29.397	31.2 } 32.1 }	—	—	—	—	o m snow
8	30.4	34.2	29.359	30.1 } 32.1 }	N.W	1	—	—	b c
9	34.4	34.7	29.553	34.5 } 32.5 }	W S	2	—	—	c b m snow
10	31.7	32.1	29.667	31.8 } 32.1 }	SW	2	—	—	b c m
11	30.7	34.7	29.693	29.6 } 30.1 }	SW	2	—	—	b c m
12	30.5	30.5	29.712	30.1 } 27.8 }	S	2	—	—	o. m
13	40.2	37.5	29.331	40.2 } 45.7 }	SW	3	0.343	0.686	b. c. m
14	46	38.2	29.035	45.7 } 45.7 }	SW	5	0.183	0.234	b. c. m
15	39.5	37.8	29.375	39.3 } 38.7 }	S E	4	0.067	0.149	r. o
16	48.2	41.8	29.379	47.4 } 46.1 }	SW	7	0.003	0.287	o m
17	47.8	45.2	29.365	47.5 } 46.5 }	SW	6	—	0.058	o m
18	41.3	41	29.689	41.5 } 39.4 }	SW	5	0.065	0.279	b v. c q
19	43.4	41.8	29.797	43.3 } 42.7 }	SW	3	0.012	0.038	o r m
20	45.7	43.9	29.959	45.6 } 45.5 }	S	2	0.019	0.074	o m
21	48.2	44.5	30.073	48.7 } 47.1 }	S	3	—	0.012	o m
22	45.4	44.4	29.979	45.5 } 43.6 }	S E	4	—	—	o v
23	43	43.3	29.973	42.7 } 42.7 }	SE	2	—	—	o m
24	40	40.2	29.969	49.3 } 48.1 }	E S	2	—	0.021	b. m
25	38.3	39.4	29.925	37.4 } 33.7 }	SE	4	—	0.008	b c v
26	35.9	38.9	30.014	35.6 } 32.7 }	E N	3	—	—	b c v m
27	38.6	37.8	30.163	38.4 } 36.8 }	NE	2	—	—	b c v m
28	39.7	37.7	30.335	39.7 } 37.8 }	NE	2	—	—	b c v m
	39.18	38.65	29.732				0.831	1.974	

1847	Evening				Wind		Thermo		
February	E	A	Bar	Hygt	Dir	Force	Max	Min	
1	35	37.2	29.826	34 - } 32 - 3 }	N6W	1	38.2	30.5	c b v
2	31.2	36.8	29.922	30 - 9 }	N6W	1	38.1	28.5	b c u m
3	35.1	37.7	30.023	32 - 4 }	SEW	1	37.9	32.5	c m b. v
4	38.8	38	30.109	32 - 2 }	W	1	42.7	35.5	r
5	46.4	40.8	29.763	38.5 }	W6S	4.8	48.2	39.8	o r
6	36.8	40.1	29.525	46.4 }	SW	1	48.5	30.2	o v
7	30.0	36.	29.500	46.7 }	N.E	1	32 -	29 -	o. v wet bulb highest
8	24.2	34.	29.325	36.5 }	W6N	3	34.8	23.6	b v
9	33.3	34.	29.390	31.7 }	N.W	2	32.4	25.2	o, m a large cluster of spots on 1 st Limb
10	29.9	34.7	29.540	33.2 }	NW	2	37.2	22.9	b v
11	26.6	33.8	29.700	37.2 }	N.W	1	38.7	23.8	b. v
12	24.5	32.1	29.769	31.5 }	S	1	33.5	22	b. v a second group on the 2 nd Limb
13	38	36	29.290	37.2 }	S	5	40.5	30	o. r
14	36.8	37	29.372	35.5 }	S	2	45.9	35.5	o
15	36.8	38	29.332	34.2 }	W6S	4	47.2	35.5	b v c
16	41.9	40.5	29.329	42.3 }	S6W	5	48.1	39 -	b v c sheet lightning
17	50.9	46.7	29.389	40.6 }	S6W	7	52.3	46	o r st. aurora
18	41.9	43.6	29.291	41.9 }	SW	3	50.7	33.5	o v
19	38 -	41.9	29.901	37.3 }	S	3	45.2	37.7	b c v the old spots still remain & a new
20	47.9	45.3	29.752	47.8 }	SW	4	49.4	42.3	cluster on 2 nd Limb
21	45.2	44.8	30.037	45.2 }	S6W	1	48.6	41.9	o. v
22	44.1	45 -	30.056	44.2 }	SE	3	48.6	42.5	o v
23	44.5	44.3	29.937	43.3 }	SSE	3	46.1	40.8	o
24	34.6	42 -	29.962	42.9 }	NW	1	44.5	31.9	b c m
25	32.5	40.8	29.940	38.2 }	NW	1	42.5	30.3	b v m
26	37.5	40 -	29.940	31.6 }	SE	4	39.7	32.5	o v g
27	29.7	37.9	30.100	34.1 }	NE	2	38.6	29 -	b m v
28	30.8	37.7	30.243	28.3 }	SE	1	40.1	29.6	b v f c
29				30 - }					
30									
	36.53	39.20	29.722				42.5	32.9	

1827	Morning			Wind			Rain		
Month	E	A	Bar	Hyg	Dir	Force	Sq ^{rs}	Globe	
1	38.9	38.8	30.491	38.8	NE	2	—	—	o m v
2	37.7	37.4	30.477	38.2	NE	—	—	—	o m
3	39.3	38.4	30.409	38.8	NNE	1	—	—	o m v
4	42.4	38.9	30.338	39.3	NE	1	—	—	o m
5	40.4	39.5	39.191	40.1	NE	3	0.002	0.002	o v m
6	44. —	39. —	30.089	40.6	NNE	4	—	—	b c v
7	44.6	40.7	30.115	44.2	NNW	3	—	—	b c v
8	40.8	40. —	30.026	44.8	N	4	—	—	b c v
9	35.8	39. —	29.915	42.7	E b N	3	0.028	0.007	b c v
10	36.9	35.8	29.961	40.8	SW	5	—	—	b c v, m
11	40.8	38.7	30.029	37. —	W b S	2	0.044	0.064	b c v
12	45.4	40.5	30.034	44.3	SW b S	3	—	—	b c v
13	45.1	41.8	29.874	41.6	S b W	6	—	—	b c v
14	48.5	45.6	29.540	45.2	SE	5	—	—	b c v
15	49.2	48. —	29.280	42.3	SE	6	0.013	0.026	o. m
16	51.2	47.8	29.346	49.6	SSE	3	0.069	0.155	b c v
17	47.2	47. —	29.505	49.2	SE	2	0.138	0.167	o. v
18	47. —	46.9	29.240	47.5	SE	5	0.015	0.018	o. v
19	49.2	46.9	29.090	45.0	S	5	0.046	0.047	o. m
20	48.7	45.8	29.086	49.4	SW b S	7	0.027	0.050	b c v
21	48.5	46. —	29.635	48.7	SSW	3	0.040	0.060	b c v
22	42.7	43.9	29.386	42.2	SW	3	0.350	0.390	pr
23	42.1	43.9	29.680	42.6	NW b W	2	0.144	0.144	b c v St. Cloud
24	47.3	44.6	29.720	40.3	SE	4	—	—	o v
25	48. —	46. —	29.654	47.4	SE	6	0.007	0.015	o d m
26	49.9	46.8	29.727	48.4	SE	5	0.027	0.036	o m
27	46.3	46.7	29.570	44.5	N b S	6	0.024	0.027	o m
28	43.1	42. —	29.760	45.8	N b E	4	0.024	0.040	b c v
29	40.2	40.2	29.616	42.1	NW b N	2	—	—	b c v St.
30	40.3	40. —	29.416	37.3	NE	2	0.101	0.112	b c v
31	37.1	39.7	29.246	39.7	N	2	0.135	0.090	b c v
	43.82	42.14	29.752	38.4			1.210	1.461	Snow in night
									Snow in night

Mem B 30. 191

St. Cloud

St. Cloud

St.

Snow in night

Snow in night

1847	Evening						Thermo		
March	W	A	B	H ₉₉	Dir	Force	Winds	Winds	
1	38.1	39.5	30.397	37.4	NE	2	41.4	33.7	c b v
2	38.8	38—	30.484	36.1	ENE	1	40.1	31.4	b m v
3	38.3	38.5	30.427	36.4	NNE	2	42.4	36.8	b c v
4	37.6	39.1	30.374	36.3	NE	0	42.5	32.5	o v
5	39.9	40.1	30.270	36—	NNE	3	44.4	38.5	o v
6	38.6	39.4	30.095	37.2	NE	2	45.	34.2	o
7	40.8	40.3	30.164	37.4	NNE	1	49.5	36.7	b c v
8	39.1	41.7	30.049	37.2	NW	1	47.8	34.5	b v c
9	38.8	40.2	29.916	37.2	SW	3	43.4	32.0	o v
10	29	38.5	30.033	35.5	S	3	39.8	26.5	b
11	39.9	40	29.866	39.1	W	1	44.5	32—	o
12	38.8	41	30.052	38.1	SW	1	46—	35.8	b. a great many dark & bright spots
13	42.9	42	30.033	42.6	SE	6	49	37	o over the O disk
14	46.2	45.2	29.700	46.2	S	9	53.1	44	b. c. v
15	48.4	47	29.337	48.1	SE	8	55.4	47.5	b c v
16	48.8	48	29.224	47.3	S	6	52.1	46.2	b. c
17	46.1	47.2	29.484	46.9	ENE	1	51.9	45.1	o
18	46.8	47.8	29.486	46.3	S	4	53	44	o. v
19	45.9	46	28.970	45.2	SE	9	53.5	43.8	o. v
20	46.9	46.5	28.897	46.3	SSE	9	54.3	43.7	o.
21	42.4	46	29.454	42.3	SW	2	52.7	37.2	b v
22	43.7	46.4	29.568	43.4	SE	4	54.5	37	b c v
23	40.	45	29.450	40.3	SW	1	45	39.5	om
24	41.3	46.2	29.722	40.7	SE	2	50	38.8	b c m Halo
25	46.3	47	29.676	45.8	SE	3	48	41	b v
26	46	46.6	29.692	44.3	SE	2	50.4	42.5	b m
27	48.3	47.8	29.638	48.6	ENE	2	53.1	44.9	d
28	35.4	40.4	29.702	34.6	NW	3	49	31	b v
29	34.4	44	29.658	34.8	NW	1	44.7	32	b v
30	33.7	42.1	29.490	32.6		0	44.6	31	b v
31	34.4	40.2	29.282	32.4	NW	1	44.6	30.2	b c v Snow at 3 ^h
	40.50	29.76	29.767				47.9	37.5	
		43.19							

Morning

							Squ	Gl	
1	40.3	39.4	29.294	40.73	N	4.162	0.034	0.009	bcv Cum, St Cum
2	40	40.5	29.456	39.83	N6E	3 76			cu Cum, Cum St
3	44.1	40.1	29.460	44.3	SW	3 135			om
4	48	43.5	29.532	47.31	W	4.124	0.026	0.043	b.c.v
5	47.8	43.6	29.666	47.53	W	3.135	0.024	0.033	r
6	49.8	46.4	29.610	47.93	W	6.82	0.075		cm Cum, Cum St
7	47.4	50.1	29.220	47.13	W	10.260	0.121	0.458	b.c.p.m Bar hearing
8	45.4	44.8	29.482	45.13	W6N	10.135			b.c.p.m, N, Cum, St Cum, Cum
9	47.3	45.4	29.687	47.13	W	1.87	0.019	0.082	bcv Cum, Ci St
10	52.7	47.2	29.570	52.63	SW	5 132	0.220	0.320	d
11	52.9	49.1	29.521	52.61	W	2 79	0.219	0.200	o.v
12	42.9	46.7	29.884	42.83	N6E	6	0.025	0.031	ov St Cum B hearing
13	43.5	43.2	30.018	43.21	NE	3 65		0.003	b.c.v
14	47	42.5	29.502	46.23	-	0 37			c.v
15	50.2	45	29.793	50.83	S6W	3 84			c.v
16	46	46	29.585	46.53	N	5 106	0.223	0.272	o.v
17	48	44	29.839	48.33	NE	2 59			b.c.v
18	44.2	45.8	29.475	44.23	SE	1 114	0.025	0.025	o.v.v
19	45.4	45.7	29.668	45.53	NNE	1 22	0.044	0.050	om
20	48.9	47	29.786	48.23	NE	0.20	0.120	0.159	b.c.v
21	45.2	46.1	29.920	44.73		0.13	0.192	0.116	f
22	49.2	46.1	29.837	49.03	W	1.11	0.459	0.432	bc Cum, Cu
23	52.3	48.7	29.784	52.13	SE	1 26			bc Cum
24	52.2	49.1	29.700	52.23	S	4.72	0.095	0.092	b.c.m. Cirrostratus
25	46.6	48.9	29.390	46.33	W	10.345	0.056	0.250	b.c.p.g. Bar hearing
26	43.2	47.4	29.978	42.33	SW	11.381	0.160	0.480	b.c.p.m d d
27	50.3	48.2	29.168	50.23	W6S	8.317	0.072	0.072	b.c.p.v Cum, Ci St B hearing
28	49.5	49.5	29.377	49.63	NW	2.76	0.025		b.c.v.v
29	46.6	46.1	29.461	46.53	WNW	6.87	0.036	0.045	bcv Cum, Cum St
30	49.4	46.7	29.504	49.53	SE	3 90			bc Cum St
	47.24	45.76	29.572				2.195	3.147	

3.219

1847

1847

April

Evening

Max

Min

	1	34	39.6	29.210	33.43	N6W	2	42.4	31.8	b.c.v	Hail showers through the day
	2	35.1	40	29.420	34.23	NNW	1.69	44.1	32	b.v	
	3	34	40.1	29.500	33.23	W	1.102	44.5	31.5	b.c.v	St Cum S
⊙	4	44	43.6	29.390	43.63	W	2.107	51	38.5	r	
	5	43.4	46	29.602	43.73	W	6.74	51.6	42.2	og	
	6	47	45.6	29.632	44.73	W	5.130	54.6	43	op	
	7	45.4	47.1	29.526	45.23	SW	1.270	53.5	44.3	r	
	8	39.9	45.3	29.316	38.53	W6S	10.273	51.6	37.7	b.vg	Bar falling
	9	39	45.1	29.618	38.723	W6S	5.72	49.2	37.2	b.p.v	
	10	45.4	47.1	29.692	45.63	SW	3.118	54.7	44.7	r	
⊙	11	60	49	29.540	50.83	SW	4	59.6	49.2	om d	
	12	46.5	48	29.680	46.33	N6E	3.117	54.6	41	ov	
	13	37	44.9	29.994	35.53	N6E	2.166	46.5	33.2	b	
	14	36.6	44.5	29.980	35.93	N6E	1.87	47	32.5	b	fine Auroral Arch and Streamer
	15	40.2	45.7	29.920	37.23	ESE	0.40	51	38	b	crest of arch N
	16	46.5	47	29.592	46.33	S	5.159	53.8	42	o.r	
	17	42	45.2	29.770	46.83	N6W	4.180	48.8	36	b.c.v	
	18	42.9	46.4	29.664	42.63	S6W	1.74	53	41	b.c.v	
	19	42.4	45.3	29.520	42.33	E6N	1.82	47.5	42.4	om	
	20	42.7	46.8	29.730	42.73	W	1.37	54	36	b.c.v	
	21	40.4	47	29.862	42.23	S6E	1.58	54.6	38.4	b.c.v	
	22	43.4	48.8	29.888	43.13		0.36	55.9	37	b.c.v	Rain and thunder at 6 ^h
	23	46.5	50.5	29.812	42.63	NW	1.53	59.5	39.6	b.c.v	
	24	43.1	50.9	29.760	44.53	S	1.66	57.1	39	b.c.v	
	25	46.4	49.7	29.276	46.63	S	11.296	57.7	43.9	p.g.d	Bar falling tremendously
	26	45.4	47.8	29.110	45.73	S	10.206	53.8	43.9	d.g.	do do do
	27	43.2	47.4	28.9	42.33	SW					
	28	42.4	42.7	29.120	41.83	W	10.413	54.7	41.3	r.g.	do do
	29	44.6	48.4	29.202	44.43	SW6W	4.197	53.5	42.2	op.v	
	29	41.9	48.9	29.272	40.73	N6W	1.83	52.7	36	b.c.v	
	30	38.4	47	29.626	38.53	SSW	1.140	50.7	36	b.c.v	
		42.22	46.20	29.581				52.1	39.1		

1847	Morning (22)			Wind			Squ	Gto	
May	E	A	Bar	Hys	Dir	Force			
1	48.3	48.5	29.568	47.73	NNW	3.59			b.c.v. Cum. Cum St
2	48.9	47.7	29.754	48.3	N6E	1.52	-	-	b.c.v.
3	51.4	50.1	29.782	51.9	SE	6.111			b.c.v. Bar heaving
4	51.6	48.7	29.652	51.5	SE	4.112			b.c.m. Cum, do do
5	51.5	50.9	29.428	52.2	SE	6.123	0.141	0.154	b.c.v.
6	53.9	51.6	29.342	54.3	SE	7.223	0.070	0.092	b.c.m. Cum St. N.
7	50.4	51.8	29.322	50.7	ENE	4.106	0.160	0.103	o.m.
8	54.8	50.7	29.360	54.3	SW	2.65	0.060	0.071	o.m.
9	56	52.1	29.550	56.5	ESE	5.194	0.044	0.084	b.c.v.
10	55.5	53.1	29.477	55.7	E6S	2.100	-	-	b.c.m.
11	56	52.5	29.381	57.3	SE	4.60	-	-	o.m.
12	57.2	54.2	29.413	57.5	SE & S	4.131	0.046	0.049	b.c.m.
13	57	53.9	29.436	57.7	S	6.194	0.045	0.090	o.v.
14	57.8	54.2	29.644	57.2	SW & S	4.135	0.137	0.139	b.c.v.
15	55.1	54	29.234	56.3	SSE	4.151	0.169	0.245	o.v.
16	53.1	54	29.548	55.2	W6S	3.170	0.277	0.387	o.v.m.
17	54	54	29.684	54.6	SE	4.101			o.v.m.
18	54.1	53.8	29.418	55.1	SSE	5.154	0.659	0.966	o.m.
19	54	53.8	29.630	55.3	W6N	3.57	0.032	0.042	o.v.
20	56.5	53.1	29.878	56.3	SW	5.172	-	-	o.v.
21	56.9	53.2	29.756	57.7	SW6W	7.200	-	-	o.v.
22	57	54	29.612	58.2	S & E	4.86	-	-	o.v.
23	59.7	58.8	29.405	59.5	S	7.214	-	-	o.v.
24	57	53.1	29.747	57.1	SW6W	8.242	0.019	0.060	b.c.v.
25	57.6	56.2	29.802	57.9	SSW	7.260	-	-	o.v.
26	57.8	55	29.883	57.9	SE	3.160	-	-	b.c.v. Cumuli
27	62	57.1	29.715	63.2	SW6S	4.118	-	-	o.v.
28	60	58.1	29.610	61.8	WSW	4.114	-	-	b.c.v.
29	59.6	59	30.060	60.3	SSW	6.150	-	-	o.v.
30	64.2	61.9	30.346	64.8	SSW	3.120	-	-	b.c.v.
31	66.7	65.6	30.100	67.3	SSW	2.21	-	-	b.c.m.
	55.99	53.94	29.639				1.859	2.482	

1847

Evening

(10)

Wind

May

E

A

Bar

H_g.

Dir

Force

Max

Min

1	42.1	47.4	29.462	41.32 38.43	N6E	2.149	50.7	35.8	60v
2	41	47.3	29.724	40.33 38.73		.109	53.2	36-	
3	43.8	49.4	29.753	43.53 40.73	SE	3.87	56.5	40.2	6v
4	44.6	49.6	29.644	43.83 41.63	ESE	5.214	53.6	40.8	6m
5	45.2	50.2	29.514	45.3 45.3	SE	1.102	52.2	42	r
6	47.5	50	29.340	47.3 46.3	S6E	6.218	55	47	6.c.v.r
7	47.2	48.6	29.300	46.73 46.73	SE	6.188	54.6	47.2	6m
8	47.4	51	29.320	47.73 47.73	NE	2.108	56	47	om
9	50.5	52	29.462	50.53 49.53	S6E	5.168	62.7	47	om
10	50.8	53	29.550	50.93 49.93	SE	5.223	57.5	47.5	o.m
11	48.2	53	29.428	47.93 47.93	SE	1.101	58-	44.9	6c
12	49	53.5	29.409	48.53 48.53	SE6S	1.122	60	46	6.c.v
13	50.5	54	29.384	50.53 50.53	S4W	4.193	59.8	48.5	a.
14	49	53.2	29.522	48.53 48.53	S	2.126	59.9	48	6.c on much thunder at L ^h
15	51.2	54.8	29.544	51.23 50.23	E6S	5.154	63	49.5	o.r
16	52.5	55	29.347	52.53 52.53	S4E	3.107	62.6	51	o
17	51	54	29.731	50.83 50.83	E	2.118	59.8	50	6.c v
18	51.2	53	29.399	51.23 51.23	SSE	7.201	55.9	48.9	o.v
19	49	54.2	29.427	48.23 48.23	SSE	0.147	62.9	47.5	6.m
20	50	53.2	29.823	48.63 48.63	WSW	3.90	57.5	48.2	6.c.v
21	50	54	29.824	48.43 48.43	SW4W	5.188	62.2	50	6.c v
22	50.9	53.5	29.792	48.83 48.83	S	1.118	59.8	47.5	o.v
23	55	57.8	29.457	54.83 54.83	SW	3.150	69.	51	6.c.v a few cirrocumuli
24	48	53.8	29.420	48.83 48.83	SW4S	8.233	61.8	46.1	6.c.v
25	53.2	55	29.778	53.23 53.23	S6W	10.222	61.6	51	o.v
26	52.0	55.8	29.876	52.83 52.83	SSW	6.225	61.5	49	o.v a cluster of dark spots on
27	55.2	57.8	29.714	55.23 55.23	SSW	1.141	63	52	o.v @ centre and another of bright ones
28	57.2	59	29.664	57.23 57.23	S6E	2.110	66.9	53.5	6.c.v on the 2 ^d limb
29	54	58	29.827	53.23 53.23	S6W	3.150	66.9	49.5	6.c.v
30	56.2	58	30.196	56.23 56.23	S	3.197	67	50	o.v
31	57.1	61.1	30.356	57.13 57.13	S6E	0.78	73.5	52.5	6.m

50.08 53.55 29.645

60.1 47.3

	Morning 22			Wind			Rain		
	E	A	Bar	Hgt	Dir	Force	Sq. in	Row	
1	70	64.8	30.384	70.53 61.03	NNW	0.26			b.c.m. Registered at 23.30
2	68.2	64	30.324	68.83 59.13	NNE	0.33			b.c.h
3	61	64.8	30.285	61.53 57.83	NNE	4.115			b.c.v
4	55	60.2	30.259	55.43 48.73	N	4.93			b.c.v
5	53.1	58	30.083	53.33 49.63	NNW	3.62			o.v
6	55.8	57.2	29.978	57.23	NW	3.40			b.c.v
7	55	57.5	29.705	55.23 49.23	NW	5.92	0.051	0.052	b.c.v Dense Cumulostratus Bar falling
8	56.1	57	29.829	56.53	NW	3.52	0.015	0.021	o.v
9	52.5	56.1	29.720	52.23 48.43	NW	5.108	0.027	0.075	b.c.m.v
10	55.2	55.1	29.890	55.93 52.63	WSW	2.			o.v
11	59.3	55.6	29.615	59.33 55.53	SE	3			o.v
12	56.	56.	29.274	56.23 52.83	SE	4	0.664	0.608	o.v
13	52.	55	29.164	52.33 49.33	S	5			o.v
14	56.2	55.3	29.260	56.43 51.83	NW	3.65			o.v
15	52.8	55.3	29.323	53.63 50.83	E by S	6.74	0.163	0.209	o.v
16	54.	58.	29.465	54.33 50.33	N.E	2.130	0.185	0.310	o.v
17	57	54.8	29.724	57.53 51.83	N	4.58			b.c.v
18	58.5	55	29.834	58.53 57.93	NW	1.35	0.002	0.016	b.c.v Cirrocumulus + Cirrostratus
19	57.6	57.	29.693	57.93 55.33	SSW	3.69		0.001	o.v
20	58	57	29.466	57.23 51.83	SW by W	3.89	0.125	0.227	b.c.v
21	55.6	55.1	29.308	55.63 52.23	WSW	6.157	0.073	0.078	b.c.v Cumulostratus very dense
22	58.5	56.	29.365	58.13 53.93	W by S	2.80	0.003		b.c.v Sky covered
23	58.7	57.	29.238	58.73 55.13	SW by S	5.96	0.024	0.032	b.c.v Dense Cumulostratus
24	58.2	57.	29.444	58.13 53.43	SE by E	1.46	0.266	0.238	o.v
25	62.2	58.	29.848	62.23 57.23	WSW	2.95	0.018	0.021	b.c.v
26	63.8	59.	30.096	63.83 62.03	WSW	4.153	0.013	0.024	o.v
27	65.0	61.2	30.244	65.13 61.13	W by S	1.75			o.v
28	65.2	61.5	30.240	65.73 60.03	NE	2.48			b.v
29	68	64.0	30.258	68.53 63.83	NE by E	1.20			b.c a trace of Cumulus in horizon, NB a thick fog this morning
30	69	66.9	30.256	69.33 63.03	W by N	1.31			b.v
	58.92	58.21	29.784				1.629	1.912	

1847	Elev 10			Wind						
June	E	A	Bar	Temp	Dir	Force	Man	Mer		
1	56.5	63.2	30.406	56.1	NW by N	2. 72	74.2	53	6. v	
2	61.2	65	30.328	59.9	NE by N	1. 30	77.1	58	6. c m	
3	56.9	65	30.277	55.3	NE	2. 83	75	53.8	6. c v	Cofty accumulation, stratus.
4	49.5	61.5	30.306	58.7	N $\frac{1}{2}$ E	4. 146	74.9	48	6. c v	The Indian of M had stuck and there were an error
5	50.2	60	30.146	49.9	N by W	5. 102	74.5	46.8	6. c v	
6	49.5	58	30.043	45.6	NW	3. 55	74.5	48.8	6. c v	
7	52	57.2	29.808	51.5	WSW	5. 82	59	48	0. v	
8	49.2	56.2	29.816	47.9	W	1. 108	58	47.5	6. c v	
9	52	56.1	29.624	52.2	NW by W	3. 100	59.8	48.1	0. d m	
10	48.2	55.8	29.876	47.2	WNW	1.	58.5	48	6. c v	a cluster of dark spots on
11	52	56	29.824	52.9	SSW	2.	61.5	49	0. v	1st Limb & another of bright spots on 2nd Limb in the center of which were two dark ones
12	52.7	56	29.489	50.7	SW	3.	61.	51.5	0. m	
13	50.7	55.6	29.216	50.4	S.W	2.	63	44.	0. m	
14	48.5	54.8	29.150	48.3	S.E	1. 150	59	46	0. v	
15	48.	53.7	29.462	46.7	S.W	1. 65	63.	47.	6. c v	
16	52.7	55.1	29.246	52.3	E by N	3. 175	55	51	0. v	
17	49.	55.3	29.640	52.4	NW	2. 47	61.5	46.	6. c v	
18	49	56.2	29.800	48.2	NW	1. 73	63.8	44.5	6. v	a group of large spots on
19	55.8	58	29.832	52.1	W	2. 50	66.8	52.2	0. v	center
20	55.4	57.4	29.498	53.3	SW	4. 178	61.9	50.2	0. v	
21	50	57	29.410	49.2	SW by W	3. 117	62	46	6. c v	stratus in horizon
22	51.2	56	29.350	49.1	SSW	3. 122	60.9	47	0. v	hail
23	52.2	56.8	29.324	50.5	S	2. 54	61.8	48.9	0. v	
24	52	57.	29.287	51.5	WSW	1. 80	63.6	50.1	6. c m	
25	52.8	55.5	29.642	52.0	SW	3. 58	65	51	6. c v	
26	57.5	58.	29.952	56.8	SW	5	64	57	0. d	
27	60.2	61.1	30.180	60.8	SW by S	5. 115	73.8	59	0. v	
28	57.9	62.2	30.250	58.2	ENE	2. 27	74	52	6. c v	
29	60 -	64.8	30.246	59.2	NE $\frac{1}{2}$ E	3. 50	75	58.2	6. v	
30	62.2	65.5	30.243	62.5	NE	1. 72	77	58.2	6. m	
	53.17	58.73	29.790				65.0	50.2		

July	Morning 22			Wind			Squ	Round	
	E	A	Bar	Hys	Dir	Force			
1	69.4	66.6	30.174	69.13	SE	1. 41			6m
2	66.7	63.3	29.995	66.32	SE	2. 29	—	0.008	6m
3	69.2	64.9	29.830	61.2	SEW	1. 28			6cm
4	66.8	65.3	29.742	62.83	SE	3. 58			6cm
5	64.9	64.7	29.676	67.33	SEAS	3. 119			ov
6	64	64	29.488	64.73	SE	5. 151	0.190	0.207	6 c v
7	66	63.2	29.623	62.2	SE	3.	0.185	0.194	6 c v
8	63.5	63.1	29.745	61.13	SEW	3.	0.012	0.010	6 c v
9	67.1	64.2	29.856	64.1	S	3.	0.032	0.038	ov
10	69	64.7	29.868	67.23	SSW	4. 125	0.002	0.003	6cm
11	69.5	66.7	29.990	69.83	SW	3. 84	0.170	0.154	ov
12	69.8	67.5	30.722	69.73	SW	3. 56	—	—	om
13	73.1	69.5	30.104	69.2	SWW	2. 55	—	—	6 c m
14	58.1	65.8	30.091	64.4	N6E	3. 73	0.098	0.095	om
15	60.6	65	30.061	70.13	N	3. 23	0.042	0.040	6 c v
16	60.9	61.5	30.016	58.13	N6E	4. 37	—	—	6 c v
17	62.3	61.7	29.985	61.37	W6N	1. 33	—	—	6 c v at 0. Bar, heaving
18	67.4	64.1	29.890	64.73	WSW	1. 27	—	—	om
19	69	67.2	29.824	64.3	N6N	2. 14	—	—	ov
20	70	67.2	29.707	69.13	SE	1. 28	—	—	o.v
21	58.4	64	29.700	70.3	SEW	7. 160	0.115	0.217	rg
22	63.2	63	30.132	58.53	WSW	3. 82	0.012	0.024	6 c v St Cum
23	63.5	63.6	30.004	57.1	SW	1. 22	0.024	0.023	om
24	61.3	62.7	29.896	63.63	NNW	2. 24	0.013	0.007	6 c v Cum
25	65	63.8	29.893	60.63	W6S	2. 31	0.037	0.039	oc
26	64	62.7	29.976	61.43	SW	5. 58	0.024	0.024	6 c v St
27	63	62.7	29.944	56.73	W6S	6. 118	—	—	om
28	62	64	30.000	60.43	SE	3. 61	—	—	bre. v
29	63.2	63.8	29.822	62.53	SW	3. 90	—	—	o. v
30	—	—	—	63.73	WSW	6 100	—	—	—
31	67.1	66.1	29.764	59.2	WSW	7 125	—	—	6 c v
	65.26	64.55	29.896	63.3			0.956	1.083	

1847	Evening 10				Wind				
July	E	A	Ba	Hyge	Dir	Form	Max	Min	
1	60.5	66	30.221	60.9 59.1	NE	2. 47	79	55	bm
2	57.1	62.9	30.102	56.63 55.7	NE	1. 71	73	49.9	bm
3	56.3	65.5	29.923	56.32 55.2	NW	2. 83	73.4	53.2	bm
4	58.7	65.4	29.764	57.73 55.5		0. 107	73.2	57	bcm
5	61.9	65.3	29.710	61.83 59	S	3. 124	71.8	58.8	bcm
6	59.8	64	29.588	59.53 58.1	SSE	5. 152	69.5	59.5	o.v
7	58.5	63.2	29.541	58.23 58.9	SW	5.	68.9	54.5	bcv
8	55.9	62	29.662	55.63 55.8	S	3.	68.2	55.2	ov
9	59.4	62	29.692	59.43 58.8	S	5.	68.2	58.2	ov
10	65	64.7	29.820	65.53 63.7	SW	5.	72	62.8	v
11	65	67.2	29.932	65.13 64.7	SW	1. 107	74.6	64.5	om
12	66.4	68	30.038	66.83 64.6		0. 75	76.5	62.2	ov
13	65.8	68	30.088	66.33 64.5	S	1. 78	75.2	65.8	om
14	64.5	68	30.092	64.53 63.8	NNE	3. 67	80.2	58.9	o.d.v
15	56.8	64.5	30.070	56.23 55.9	NNE	1. 76	64	55.8	o.v
16	52.9	62.5	30.043	52.83 50.1	ENE	1. 86	67	48.8	l.c.v
17	52.6	62.4	30.016	52.63 50.8	NNE	1. 96	67.1	49.2	bv a group of dark & bright spots
18	58.4	64.1	29.904	58.43 54.2	W	1. 38	71.6	58.7	ov on O 2 nd limb
19	60.8	66	29.850	60.83 60	NE	1. 56	74	61.8	om
20	62	67	29.800	62.23 61	NE	1. 61	74	58	ov
21	63.9	68	29.600	63.93 61.9	S	5. 105	75.1	58.2	o.d the spots increased in no.
22	54.1	62.4	30.030	53.23 51.1	SWW	3. 115	64	52.8	bcv and size
23	55.4	64.2	30.124	55.33 54.3	ESE	2. 49	70.5	54.6	bcv
24	55.5	62	29.922	55.33 55	SW	2. 55	68.7	54.8	cl
25	58	64	29.890	57.63 55.4		0. 86	70	55.5	om f
26	54.8	64.1	29.984	55.23 54.2	NW	1. 53	68.4	51.8	bcv
27	59.7	64	29.940	59.23 56.2	WSW	6. 164	69	58.8	om
28	58.6	63.7	29.958	58.63 56	WGS	5. 88	69.5	54.3	ov
29	60.2	65	29.950	60.23 58.3	W	1. 44	70.1	54.5	o
30	—	—	—	—	WSW	5. 140	—	—	—
31	—	—	—	—	WSW	7 240	74	54.8	—
	55.43		29.906				71.4	56.6	
	59.25	64.69	29.918						

Morning 22

Any	E	A	Bar	Hgg	Dir	Force	Squ	Round	
1	62.1	63.4	29.820	61.33 53.73	WSW	4.51	0.034	0.042	b.c.v. cum
2	60.3	60.7	29.896	60.23 52.23	WGN	6.97			b.c.v. cum St
3	55.7	58.6	29.434	55.73 54.13	S	8.192	0.270	0.350	rg Bar heaving
4	58.7	60	29.364	58.43 57.53	SWbW	4.111	0.106	0.150	r
5	61.3	60.5	29.556	61.33 57.93	NW	4.53	0.014	0.012	ov St cum, St
6	59.7	60.4	29.446	60.53 57.23	WGS	6.155	0.024	0.053	b.c.v. Bar heaving
7	54.2	58	29.460	54.33 53.33	NW	6.164	0.042	0.054	o.r.v
8	58.3	58	29.650	58.53 53.53	NW	1.127		0.002	b.c.v
9	59.8	58.8	29.420	60.33 59	S	6.150	0.024	0.041	d
10	65	63.2	29.739	66.23 60	SWW	5.150	0.107	0.120	b.c.v
11	64	61.2	29.750	64.7 54.2	SWbW	5.150	0.020	0.036	b.c.v
12	61.7	60.3	30.162	61.53 56.53	WNW	1.546			b.c.v. cum
13	61	58.8	30.288	60.73 54.43	NE	2.36			b.c.m. cum
14	61.8	62	30.212	61.73 57	SEbE	2.37			b.m
15	59.5	63	30.150	59.33 55.73	N.E.	1.23			b.m
16	62.7	61.6	30.096	62.73 57.13	N	2.19			ov
17	61.2	61.1	30.164	61.23 56.13	NE to E	6.64			b.c.v
18	61	60	30.088	61.13 56.73	SE	0.21			b.v
19	62	62	29.860	62.23 55.03	SW	3.58			o.v
20	60.2	60	29.672	60.83 58	SW	5.101		0.004	o.v
21	53.5	58	29.476	52.33 48.33	NW	5.173	0.021	0.042	b.c.v. r
22	56	58	30.000	56.53 50.93	NWbN	2.37	0.013	0.016	b.c.v
23	60	57.5	30.050	60.13 53.13	SWbW	3.58			b.c.v
24	62.5	59.5	29.996	63.23 57.93	NW	3.50	0.014	0.047	b.c.v
25	63	59.5	30.068	63.23 59.83	SSW	3.56			o.v
26	64.5	61.7	30.046	64.53 60.63	SWbS	6.119			c.m. cum, St cum
27	62.7	61.1	30.160	62.73 58	SW	2.67		0.016	b.c.v
28	60	60.1	30.140	61.23 53.23	NW	2.30	0.051	0.054	b.c.v
29	58.1	59	29.864	58.53 57	W	4.116		0.011	ov
30	58.7	60	29.935	58.73 57.93	WNW	1.51			b.c.v
31	56.5	60	29.600	56.53 51	WNW	5.125	0.025	0.046	o.v
	60.18	60.09	29.857				0.765	1.096	

181.7

Evening 10

Wind

August

E

N

Bar

Hys

Dir

Force

Max

Min

1	58.7	65	29.750	58.43	WGS	1.122	71.4	52.7	om
2	51.6	60.7	29.858	51.13	SWGS	1.63	66.7	49.8	bv
3	56.8	61.4	29.794	52.33	SGW	3.75	66.6	52.5	r
4	55.6	60.8	29.428	55.43	WSW	3.114	65.7	54.6	ov
5	55.2	60.2	29.372	54.83	W	3.60	62.8	53.7	om
6	55.7	60.6	29.620	55.53	SWGW	3.60	65.8	55.8	om
7	53.6	59.8	29.380	53.53	SW	6.123	64.1	51.9	d
8	51	57	29.644	51.33	NW	6.62	59.	48.8	b.c.v
9	54.2	58.8	29.672	54.43	SSW	4.56	64	53	c
10	52.8	58.1	29.656	52.93	SSW	4.77	65.5	51	bv
11	60.6	61	29.644	59.83	SGW	7.214	68	53.2	o.v
12	53.5	60.4	29.904	53.33	SW	3.90	66.8	50.9	b.v
13	55.1	61.6	30.274	54.73	NE	1.50	69.3	47.7	b.c.m a very large spot & a large
14	51.2	59	30.260	51.73	NE	1.60	68.8	47.7	b.m group on @ center
15	52	59.2	30.180	51.33	E	0.66	67.5	45.5	b.m
16	54.2	61.8	30.114	54.23	NE/N	0.31	67.7	51.4	b
17	53.5	61	30.138	52.8	NNE	0.80	65.8	52	b
18	54.	62.	30.165	54.43	NE/N	2.132	69	50	b.v
19	58.5	63.5	29.976	58.12	SW	2.29	71.1	55	b.c.v
20	54	61.7	29.512	53.43	WSW	1.86	69.5	52.5	b.m
21	57.2	61.2	29.340	57.63	WSW	7.246	64	49.5	o.v
22	47	57	29.796	45.83	WNW	2.97	59	43.2	b.v
23	51	57	30.088	50.83	WGS	2.48	60.5	49.2	o.v
24	57.5	58	29.976	57.53	WSW	3.137	63.8	57	o.d
25	58	59.8	30.058	57.33	W/N	1.59	65.5	54.2	o.v
26	60.3	61	30.048	60.73	SSW	3.107	69.4	60.2	om
27	57.2	61.7	30.142	56.83	WSW	2.124	70.5	54	b.c.v
28	55	62	30.110	54.83	WGS	2.58	69.9	50.2	b.c.v 3 Large groups on @
29	54.7	60	30.074	54.53	SWGW	1.55	67	54	om
30	53.8	60.5	29.773	53.81	SW	6.72	65	53.2	b.v
31				57.21		96			
	53.00	60.39	29.874				66.3	51.8	

1847	22 nd Thorn				Wind			Squ	R	
Sept.	E	A	Bar	Thy						
1	56.2	58.1	29.912	57.2	NNW	5.107	0.010	0.025	b.c.v	
2	58.1	57	29.604	58.5	WNW	4.109	0.213	0.328	o.v	
3	50	54	29.850	49.8	NW	3.47	0.108	0.131	o.v	
4	51	53.5	29.800	47.2	NNW	3.59	0.007	0.013	b.c.v.v.k	
5	52.8	52.7	29.826	52.5	NW	6.51			b.c.v	St Cum
6	52	53.4	29.611	52	SSW	4.124	0.012	0.022	o.v	
7	55.2	53.2	29.795	55.2	WS	1.35	0.058	0.080	b.c.v	
8	60.6	57.1	29.720	58.5	SW	7.212			om	
9	55.9	57.1	29.964	56.2	NW	1.65	0.123	0.163	b.c.v	
10	52.3	53.9	29.862	52.3	SW	6.98			o.v	
11	59	56.1	29.522	59.3	SW	7.193		0.078	b.c.m.g	
12	53	55.2	29.622	53.4	SW	5.112			b.c.v	Cum. St Cum
13	52.5	51	29.682	51.4	WGS	2.80			b.c.v	Cum St
14	53.7	53	29.650	53.3	SW	5.72	0.045	0.046	om	
15	52.3	54	29.010	52.3	WlyN	9.212	0.355	0.838	o.v	
16	51.7	52.4	29.232	51.2	W	4.110	0.010	0.021	o.v	
17	49.8	52	29.436	49.2	W	5.60	0.230	0.242	b.c.v	
18	49.1	49.2	29.562	48.5	SW	5.126	0.010	0.020	o.v	
19	51.1	51.2	29.586	51.2	NW	6.103	0.021	0.032	b.c.v	St Cum. v
20	49.2	48.8	29.712	48.4	S	3.97	0.101	0.113	v	
21	58.8	55	29.770	58.2	SWWS	7.186	0.340	0.461	o.v	.461?
22	57.1	56.2	29.577	57.1	SW	8.243	0.009	0.060	o.v	
23	55	54.4	30.044	54.4	SW	1.65			om	
24	58.4	56.7	29.806	58.4	WSW	6.171			b.c.v	
25	55.3	56.1	30.074	54.9	NE	1.35			om	
26	56.8	54.9	30.092	56.7	SSW	3.68			om	
27	55.7	54.7	30.114	55.5	SE	5.102			b.c.m	Cum
28	54.7	54.8	30.114	54.2	SE	5.94			om	
29	55.1	54.3	30.084	54.9	SE	6.118			b.c.v	
30	54.	54.	30.081	53.7	N.E	4.90			b.c.v	
	54.28	54.59	29.757				1.652	2.665		
								2.662		

1847	10 th Even			Wind			Man	Min	
Leht	E	A	Bar	Hgt	Dir	Force			
1	50.2	57.8	29.692	49.5	NW	4.106	61	48.2	b.c.v
2	48.5	52	29.912	48.1	SW ^{1/2} S	1.87	60.5	48	0
3	46.5	55	29.768	48.2	NNW	2.35	61.9	43.3	b.m
4	47.2	54	29.800	48.2	SW	4.76	55.5	41.2	b.c.v
5	45.2	53.9	29.788	48.6	WNW	2.93	55.4	42.9	b.c.v
6	49.7	54.6	29.800	49.4	SSW	2.64	57.3	48.7	om
7	51.8	55.1	29.673	50.2	NW	2.92	63.7	44.8	ob.1
8	55.5	56	29.760	53.7	SSW	6.108	61	55.4	ogm
9	53.4	56.3	29.822	53.2	SW	4.139	63	48.5	r
10	48	55.1	29.800	52.4	SW ^{1/2} S	2.62	59.5	43	b.c.v
11	55.7	56	29.582	55.5	SW	8.273	60.4	53	ogm
12	49.4	55	29.544	50.1	SW ^{1/2} W	6.176	62	53.6	bv
13	44.4	53.2	29.665	43.8	WSW	2.39	58	41	bv
14	47	56.2	29.652	46.2	SW	3.57	57.2	43.6	bev
15	53	55.1	29.130	52.4	W	7.209	58	48	bev
16	48.7	52.8	29.390	48.1	WSW	6.152	58.7	47	b.p.t
17	43.4	51	29.134	42.5	W	3.79	54.1	41	r
18	41.1	50.6	29.680	40.4	SSW	4.96	53.2	41	b.c.v
19	45.3	50.3	29.466	44.6	SW	4.109	53.3	43.2	b.p.v
20	42.5	49.8	29.820	41.6	SSW	2.77	53.5	41.4	ov
21	57.4	52.6	29.700	57.5	SW	6.137	60	49.1	om
22	58.2	56	29.613	58.2	S	9.202	65.5	56.5	o.v
23	51.2	55	29.884	58.8	WSW	3.83	65.4	50.5	o.v
24	53.2	55.3	29.932	52.9	SSW	5.99	58.4	53.5	om
25	53.2	56.6	29.966	53.4	NW	3.75	60.4	50.5	om
26	52.5	56.8	30.090	52.4	SSW	3.43	59.8	52.4	om
27	54.8	55.7	30.100	54.9	S	3.100	60.4	49.5	ov
28	47.9	54.4	30.104	47.2	SE	3.150	58	47.8	bev 3 groups of 0 spots
29	49.3	53.4	30.080	48.8	SE	3.166	59	47.8	bev Aurora
30	50.5	53.6	30.062	50.8	E	3.142	57.	48.	o.v
	49.62	54.25	29.747				58.7	47.4	

1847		Morning			Wind			Square	Globe				
October		E	A	Bar	Hgt	Dir	Force						
9	1	53.1	52.	30.080	51.73	N.E	4.60			0.1			
	2	51.3	53.1	30.100	51.53	N.E	3.81			0.2			
0	3	49.6	52.4	29.948	49.53	N.E	2.80	0.005	0.010	0.3			
	4	49.4	51.7	29.678	47.43	N.N.E	2.35	0.002	0.002	0.4			
	5	49.7	50.4	29.408	46.43	E	4.90	0.205	0.250	0.5			
	6	47.4	50.6	29.168	46.83	S.W.E	1.55	0.410	0.420	0.6			
	7	49.2	49.8	29.480	48.83	W.E	2.118	0.250	0.310	0.7			
	8	55	52.7	29.526	55.83	S.E	7.100			0.8			
	9	56.1	52.6	29.394	56.73	S	4.74	0.182	0.350	0.9			
	10	58	55.8	29.494	57.93	S.S.E	5.234	0.080	0.120	1.0			
	11	59.3	59-	29.663	58.83	S.E	6.168	0.211	0.249	1.1			
	12	55-	54.9	29.862	58.23	N.E.N	1.75			1.2			
	13	53.5	54	29.704	53.93	E.S.E	5.100			1.3			
	14	50	53.8	29.750	50.3	N.N.E	3.101			1.4			
	15	48.8	50	29.898	48.63	N.E	2.75			1.5			
	16	50.4	51.7	29.734	50.73	S.W.W	4.89			1.6			
	17	53.1	52.	29.352	53.33	S.W	6.178			1.7			
	18	52	51.9	29.050	51.53	W	1.168	0.100	0.164	1.8			
	19	48.2	52.8	29.430	47.73	S.W	4.136	0.053	0.080	1.9			
	20	47.9	68?	29.607	49.33	W	3.140	0.390	0.302	2.0			
	21	52.3	57	29.599	51.83	S.W	7.246		0.021	2.1			
	22	47	49.7	29.358	46.73	S.W	4.128	0.137	0.550	2.2			
	23	44.7	47.3	29.384	44.23	S.W	6.168	0.014	0.025	2.3			
	24	44.3	46.3	29.860	43.73	S.W.E	4.116	0.040	0.060	2.4			
	25	54	50	29.910	54.13	S	7.214			2.5			
	26	52.7	52.8	29.948	52.73	S.W	5.261	0.140	0.400	2.6			
	27	53	52.2	30.108	53.33	S.W.E	3.92			2.7			
	28	50.5	50.6	30.000	50.43	W.S.W	2.108			2.8			
	29	46.6	48	29.924	45.83	S.S.W	6.138			2.9			
	30	47.7	48.8	29.860	47.43	N.E	1.77	0.178	0.505	3.0			
	31	55.5	53.	29.846	55.43	S.E	5.205			3.1			
		50.82	52.42	29.681				2.397	3.778				
									3.788				

Bar falling

Instrument used

1847	Evening 10 Hours			Wind		Max	Min				
October	E	A	Bar	Hwy?	Direct Force						
9	1	50.2	52.1	30.084	50.7	NE	4	120	56.3	46.5	b.c.v
	2	49	53.8	30.076	48.7	NE	3	69	57.7	47.8	ov
10	3	49	52.5	30.044	48.7	NE	2	87	53.6	47.2	ov
	4	46.5	51.5	29.814	46.6	NE & N	1	53	52	44.7	o
	5	45	50.3	29.558	44.3	NE	2	110	52	42.8	ov
	6	48.2	50.6	29.190	47.6	NE	5	110	50.8	46.8	r
	7	47	50	29.216	46.6	SW	6	156	50.9	45.7	b.c.p
	8	47.2	50	29.616	47.2	SW	2	47	56	43.6	b.c.m
	9	55.3	52.7	29.324	55.2	S	5	297	57.3	51.6	d.y
	10	54.3	54.5	29.440	54.2	SE & S	6	138	61.4	53.8	b.c.v
	11	56.2	55.3	29.550	56.3	SE & S	8	203	60.0	55.2	b.p.g.m
	12	52.0	57.7	29.788	51.4	NN & E	3	117	62.1	50.5	b
	13	52	55	29.832	51.7	NE	2	119	58.7	50.4	om
	14	48	53.2	29.688	48.6	WSW	3	124	55	43.8	b.c.v
	15	46.8	52	29.848	46.6	NNE	2	126	54	42.8	b.m
	16	42.1	50.6	29.800	40.7	SW	1	49	54.4	41.3	b.m
	17	52.8	52	29.552	52.5	SW	6	140	54	50.2	om
	18	52	52.1	29.144	52.1	SW	7	203	58.8	49.8	b.v
	19	43.3	50.2	29.222	42.8	SW	4	65	53.1	40.6	b.v
	20	43.1	48.6	29.464	42.2	SW & W	3	105	49.8	40.	b.c.v
	21	46.2	47.8	29.743	45.9	SW & S	6	120	52.9	44.5	ov
	22	51.8	51.8	29.254	51.7	SW	10	335	56.8	44.8	r.g.
	23	42.4	47.6	29.360	42.3	SW	5	114	51.7	39.6	r.m
	24	40.7	46.2	29.560	40.3	SW	7	163	48.1	38	b.c.p
	25	47	47.1	29.972	46.7	S	4	102	54	44	om
	26	54.7	52.5	29.752	55.8	S	10	284	57.8	49.5	b.c.g.m
	27	46	51.7	30.008	45.8	SW	2	115	57	43.5	b.m
	28	47.2	50.3	29.988	47.3	S	3	104	55	47.6	om
	29	47.3	50.1	30.020	47.1	SW	4	163	54.7	44.5	om
	30	53.2	52.2	29.618	53.3	SW	7	272	55	44.6	r
	31	54.7	51.8	29.850	54.5	SW	6	103	56.5	47.	ed m.m.
		48.73	51.86	29.657					55.1	45.9	

Aurora
Bar bearing.

Spots on ☉

1847	Morning 22 Horn			Wind			Square	Globe	
Nov.	B	A	Bar	Hg ⁹²	Dir ^h	Force			
1	50.5	60	30.120	51.3	WSW	3.184	0.010	0.059	b. c. v. streaky stratus
2	48.5	48.5	30.150	47.23	E	1.15	—	—	b. c. m. Cirrostratus
3	52.1	50.2	29.912	52.18	S ¹ / ₂ W	3.108	—	—	o. v.
4	53.9	52	29.565	51.13	SE ¹ / ₂ S	5.214	0.008	0.015	o. v.
5	54	52.5	29.580	52.13	S	5.228	0.016	0.132	o. v.
6	53.5	52.2	29.284	53.23	S ¹ / ₂ W	9.286	—	0.010	o. v.
7	56.5	55	28.739	56.83	S	10.184	0.462	0.958	o. v.
8	49.5	50.4	29.700	52.93	WSW	3.171	—	—	b. c. v. I never saw such a rain
9	53.5	51.2	29.690	54.3	SW	9.325	—	—	o. v.
10	46.4	50	29.928	45.53	NW ¹ / ₂ N	0.25	0.426	—	Round haze blown down
11	44	47.5	30.100	42.73	W ¹ / ₂ S	2.38	0.047	0.038	b. m.
12	47.7	48.5	30.012	47.23	W ¹ / ₂ S	2.160	0.034	0.116	b. c. m.
13	53.2	50.2	29.974	53.33	SW	4.148	0.057	0.105	o. v.
14	54.5	52.9	29.913	55.73	SW ¹ / ₂ W	6.240	—	0.012	o. m.
15	45.2	49.9	30.112	45.53	WNW	3.68	0.058	0.159	b. c. v.
16	41.2	45.1	30.264	40.93	NW ¹ / ₂ N	4.101	0.007	0.020	b. c. v.
17	38.3	42.2	30.320	38.83	SW ¹ / ₂ S	2.65	0.013	0.025	b. c. m. The clouds moving from N to S
18	45.1	45	30.162	45.23	SW ¹ / ₂ S	3.160	—	—	o. m.
19	43.2	44.9	29.900	43.23	SW	5.174	—	—	b. c. v.
20	47.8	47	29.222	47.73	S ¹ / ₂ E	8.275	0.101	0.192	o. v. m.
21	40	42.2	29.339	39.43	NE ¹ / ₂ N	4.288	0.294	0.513	o. m.
22	41.3	42	29.286	40.93	S	6.220	—	0.100	b. c. v.
23	46.8	46.1	29.506	46.63	SW	6.282	0.098	0.280	b. c. m.
24	51.1	47.8	29.362	51.13	SW	8.246	0.400	0.616	o. m.
25	40.7	42.8	29.510	40.53	SSW	2.182	0.021	0.060	o. m.
26	41.2	42.6	29.124	40.83	ENE	2.100	0.025	0.030	o. m.
27	37.1	40.6	28.794	36.63	SW ¹ / ₂ S	1.83	0.071	0.086	o. m. c.
28	39	40	29.190	38.63	SW	3.120	0.043	0.070	b. m.
29	49	46.2	29.380	46.33	W	2.234	0.020	0.142	r.
30	42.7	45.2	30.000	42.63	SW	3.175	0.008	0.037	b. c. m.
	52.6	48.7	29.800	52.63	SW	6.225	—	—	o. m.
	48.40	47.71	29.700				2.219	3.776	
								4.26 4.201	4.195

1847		Evening 10 Hours				Wind		Max	Min	
No.		P	A	Bar	Hg	Dir	Force			
D	1	54.9	53.8	29.732	55.23	SSW	10.228	58.8	48.2	b.c
	2	42	49	30.217	59.23	WSW?	0.51	53.8	35	b.m
	3	47	49	30.010	58.53	E	2.76	53	43	b.m
	4	51	51.5	29.785	58.73	NNE?	0.88	56	49.5	0
	5	53.8	53.2	29.500	55.23	SWWS	7.248	56.5	50	q.r
	6	52	53	29.504	56.13	S	6.198	57.9	50.1	b.c
O	7	48.5	53.1	29.132	57.53	NW	1.295	58	46.2	0.r
	8	48.2	49	28.778	58.83	W	9.475	58	42	0
	9	46.1	49	29.824	58.53	SWWS	6.142	54	45	b.c
	10	48.5	52.8	29.803	58.23	WSW	2.828	55.5	44	0.r
	11	42.3	48	29.975	56.73	NWWS	1.33	48	38.5	0
	12	43.9	47	30.034	52.73	SWWS	4.85	48.8	41.7	0.v
	13	48.2	49.3	30.056	57.23	SWWS	4.95	53	47.2	0
	14	54	52	29.948	52.73	SWWS	8.185	55.5	52.2	0.r
	15	50.1	53	29.981	58.83	WN	2.237	57.3	41	0.r.v
	16	39.9	46	30.112	57.23	W	3.114	47	36.5	0.v
O	17	36.2	43.2	30.375	55.33	SSW	1.78	43.5	34	0.v
	18	39.9	43	30.184	58.23	SWWS	6.152	45.2	38	b.c.v
	19	45.2	46	30.072	55.53	SWWS	4.144	48	38	0.v
	20	45.9	45.8	29.646	55.53	S	8.260	48	42.2	0.v
O	21	42.8	45.8	29.130	52.73	NW	9.248	49.9	36	0.v
	22	43	45.5	29.112	57.23	SWWS	8.315	53	37	b.c.m
	23	38.5	41.5	29.508	57.53	SW	6.232	47.1	37	b.c.v
	24	47.4	46.1	29.514	47.43	SSW	7.140	52	43.2	r
	25	41.8	45.4	29.434	46.63	SWWS	7.228	54.1	35.6	b.c.m
	26	41	42.5	29.224	46.63	SE	5.140	47.4	40	b.c.m
	27	36.1	39.7	29.062	35.13	SSW	2.56	42.4	32.7	b.c.m
	28	40.4	40.6	28.898	38.83	SWWS	6.150	41.2	34.7	r
	29	49.1	43.4	29.254	48.83	SW	7.184	53	38.8	r
	30	41.1	44	29.614	40.13	W	3.107	50	37.2	b.c.m
	39	41	41	29.974	37.73	SW	5.208	52.6	36.7	b.c.m
		46.93	47.34	29.680				51.6	41.1	

at 7th the wind fell and became
to W and at 10 to N

a great number of O spots

1847		Morning 22 hours				Wind		Squar	Globe		
Decr		E	A	Bar	Hgg ²	Dir	Force				
7	1	44.7	45.4	29.514	44.43	SW	2.161	0.021	0.204	bc m	6i st
	2	44.2	43.9	29.333	44.23	SW	7.257	0.054	0.111	am u	
	3	36.3	42.4	29.060	36.23	SW	6.154	0.103	0.211	bc psv	
	4	43.2	43.8	27.986	43.23	SW	7.235	0.415	0.663	od g m	(at 0 ^h 27.908) B hearing
8	5	40.1	42.6	29.042	39.23	NWEN	5.191	0.055	0.082	bc w	
	6	33.9	38.5	29.372	33.23	SWEN	3.120			bc m	6i
	7	52	47	28.984	50.73	SW	9.343	0.234	0.450	og m	
	8	40.2	44.8	29.550	40.43	SW	1.64		0.220	bc m	
	9	37.2	41.7	29.374	36.73	S	4.60			bc m	
	10	41.7	41.7	29.560	40.83	SW	3.200	0.013	0.042	bc m	
	11	44.5	41.6	29.552	44.33	S	5.80	0.010	0.021	bc m	
	12	49.5	46.3	29.526	49.53	SSW	9.350			ong	
	13	43.7	45.8	29.436	43.23	SW	3	0.560	0.820	r	Bar hearing
	14	44.5	47	29.257	43.83	SSW	3	0.062	0.123	o. r	
	15	48.8	47	28.900	48.53	SE	10.438	0.177	0.295	o. r	
	16	42	45.5	29.156	41.93	SW	1	0.140	0.594	o. m	
	17	36.2	41	29.173	35.83	NE	1			m	
	18	41	43	29.664	40.53	EN	1	0.494	0.651	bc m	
	19	37.9	41	29.446	37.23	E. N. S	4			o. v	
	20	37.8	40	29.597	37.53	EN	2	0.063	0.012	o. m	
	21	40.5	39.9	29.494	40.13	SE	6			bc m	
	22	39.1	40.8	29.870	39.3	E	1	0.078	0.105	o. m	
	23	39	38	30.119	39	E	2			bc m	
	24	39.9	39.9	30.161	39.73	EN	3			o. m	
	25	39	39.9	30.091	38.93	EN	2			o. m	
	26	41.2	40.4	30.011	41.43	S	2	0.057	0.094	o. r	
	27	44.2	42.8	29.397	43.93	S	7	0.277	0.386	r	
	28	35	38.2	29.688	34.33	WES	2	0.240	0.519	bc m	
	29	28.7	36.5	29.781	30.83	WES	1			bc m	
	30	36.5	37	29.448	36.33	SW	2	0.123	0.258	o. m	
		40.75	42.04	29.428				3.116	5.856		

1847		Evening 10 hours			Wind		Max	Min	
Dir		E	A	Bar	Temp	Direct Force			
☽	1	49.6	48.2	29.834	49.2	SW 3. 235	55	43.8	om Several very large spots on ☉
	2	42.5	44.6	29.598	42.4	SSW 5. 204	46.4	40.2	bcg v
	3	39.7	44	28.966	39.2	SWNW 6. 311	49.1	35.2	bcg m
	4	36.1	39.9	28.994	35.3	S 6. 180	45.7	34.6	o h v
☉	5	41	42.7	28.436	39.8	N 8. 145	44.1	38	o p g m
	6	34.8	40	29.254	34.2	WNW 4. 120	42.2	31.7	bc h o v
	7	35.4	38	29.054	34.8	SEGS 6. 156	52	32.4	r
	8	52.6	48	29.002	52.8	SW 10. 464	64	40	og m
	9	37.2	44.6	29.462	36.7	NNE 2. 34	42.1	32	bc m
	10	41.4	43.3	29.354	41.2	SLW 3. 233	45	35.7	om
	11	32.7	40.4	29.680	32.7	W 1. 70	44.5	31.2	f
☉	12	47.7	45.5	29.484	47.4	SGS 8. 243	50	40	bc m
	13	48.5	47	29.520	48.5	SGS 9. 327	50.8	41	rg Bar heaving
	15	47.9	45.9	29.377	47.5	SGS 8	49.5	43	bcg Bar heaving
	16	41	43	29.253	40.2	S 8	49	40	b.v
	17	52	50	28.870	52.8	SSW 10. 423	54.5	41.5	o.v At 2.30 B=28.732
	18	33.2	42	29.167	33.9	SGW 0	43	30.2	bc m
☉	19	42.8	42.5	29.348	42.3	NESE 4	43.8	36	r
	20	38	42	29.577	38.2	ENE 1	43	36	o
	21	37	39	29.376	38.2	SESE 4	38	35.5	o
	22	38.2	39.1	29.776	37.8	EGS 2	40.5	36	om
	23	40.5	40.3	29.464	40.3	EGS 1	42.5	38.5	om
	24	38.8	39.5	30.059	38.2	E 2	40.8	30.5	bo
	25	38	39	30.150	38	EGS 0	41	36.8	oo Aurora
☉	26	38.2	39.8	30.117	37.6	E 0	41	39.3	o slight
	27	38.6	39.4	30.027	38.2	SGW 3	41.7	37.9	or
	28	44	42	29.850	43.9	S 7	44.9	37.8	or
	29	37.9	41.5	29.392	37.4	WGS 3	47.6	31.9	bc faint aurora
	30	32.2	38	29.829	31.6	WGS 3	37.6	26.8	bu
	31	34	34.1	29.561	32.3	4	37.8	25	bc m v
		40.18	42.04	29.460			44.1	34.7	

1847	Evening		Morning		Rain		Barom	Wind		Thermometer	
	F	Bar	F	Bar	Square	Round		Force	Direct	Max	Min
Jan	40.27	29.537	40.69	29.531	2.206	3.027				25-59.2	31-30.0
Feb	36.53	29.752	39.18	29.762	0.831	1.974				17-52.3	12-22.0
March	40.50	29.786	43.82	29.773	1.210	1.461				15-55.4	7-26.5
April	42.22	29.592	47.24	29.583	2.195	3.147	3.219			11-59.6	3-31.5
May	50.08	29.634	55.99	29.650	1.859	2.482				31-73.5	1-35.8
June	53.17	29.776	58.92	29.763	1.629	1.912				2-77.1	18-44.5
July	59.25	29.876	65.26	29.856	0.956	1.083				14-80.2	16-48.8
Aug ⁺	53.00	29.847	60.18	29.830	0.765	1.096				1-71.4	22-43.2
Sept	49.62	29.709	54.28	29.746	1.625	2.665	2.662			22-65.4	13-41.0
Oct	48.73	29.652	50.82	29.676	2.397	3.778	3.788			12-62.1	24-38.0
Nov	46.93	29.688	48.40	29.705	2.219	3.776	4.195			1-58.8	27-32.7
Dec	40.18	29.481	40.75	29.449	3.166	5.856				8-64.0	31-25.0
Summer	52.29	29.748	57.55	29.752	9.231	13.016					
Winter	41.17	29.637	43.37	29.632	11.777	19.240					
Year	46.77	29.693	50.51	29.693	21.008	32.256	32.755				

Mean Temperature of Year = 48.64
 Max., July 14 — — = 80.20
 Min., Feb 12 — — = 22.00
 Mean Barometer — — = 29.693
 Max., March 1. 10 — — = 30.491
 Min., Jan 23. 22 — — = 28.420

Rain on 210 Days