

1851	Mon. 21 ^h			Wind			Rain		
Jan 5	E	A	Bar.	Wyg	Dir	Force	Square	Round	
2	42.1	46.	29.410	41.8	SSW	3	0.262	0.457	o. m
3	42.2	41.	29.831	31.2	SW 6S	1	—	—	6. m
4	43.3	42.	29.373	30.9	SE 6E	8	0.009	0.033	o. q. v
5	35.8	41.2	29.310	43.7	SW 4S	2	0.074	0.140	registry at 9 ^h 20.
6	33.5	39.	29.450	35.2	NNE	1 1/2	—	—	6. stratus in NE m
7	45.	40.	29.122	32.5	SE 6S	5	0.067	0.103	6. stratus in m
8	33.2	37.9	29.132	32.6	SE 6S	1	0.049	0.085	o. q. d. m
9	33.	36.8	29.615	32.8	SSW 1/2 W	3	—	—	o. thin cirrostrat. m
10	50.5	43.	29.564	32.8	SSW	5	0.180	0.328	6. stratus and a little cum. in SW. m
11	51.5	48.	29.696	30.3	SW 1/2 S	4 1/2	0.002	0.030	o. g. q. m
12	41.	45.9	29.638	31.5	SW 1/2 S	4	0.126	0.208	o. r. m
13	49.	47.	29.102	40.6	S 1/2 W	12	0.084	0.215	6. cum. strat. v
14	44.3	44.	28.975	39.6	S 1/2 W	2	0.050	0.257	o. q. m
15	44.9	45.2	28.716	42.6	ESE	3 1/2	0.581	0.764	o. m.
16	44.1	42.	28.834	44.5	SSE	12+	0.393	0.614	o. r. m
17	40.	42.	28.922	43.9	SSW	10	0.150	0.375	o. q. r. m a tremendous gale
18	36.	40.	29.628	42.7	SW 1/2 W	4	0.005	0.024	light cirrostrat
19	48.3	46.5	29.420	39.2	S 1/2 W	11	—	—	4. cum. strat and v. v. v
20	48.3	46.1	29.106	38.2	S	8	0.051	0.197	covered with v. v. then a v. v. m. halo
21	36.	40.9	29.058	48.3	SSW	3 1/2	0.035	0.238	6. cum. strat. v. v.
22	36.8	39.	29.481	35.5	WSW	7	0.014	0.031	6. cum. strat. v. v.
23	37.5	39.	29.951	34.1	S	5	0.017	0.039	o. r. q. m. v
24	44.6	44.2	29.811	35.2	S	7	0.020	0.050	6. stratus. v
25	37.8	40.	29.528	44.2	SE 6E	5	0.160	0.268	o. q. v. m
26	35.6	40.	29.418	43.7	SSW	1 1/2	0.200	0.372	o. h. v
27	35.4	39.4	29.500	37.1	SSW	4	0.229	0.280	6. v. cum. near horizon. registry at 9 ^h 20 ^m .
28	39.4	41.2	29.348	35.8	SW 1/2 W	8	0.047	0.079	6. v. snow lying on ground. de
29	50.5	46.	29.000	37.1	SSW	10 1/2	0.040	0.066	6. h. v
30	34.9	39.	29.087	35.8	SSW	6 1/2	0.060	0.269	o. h. v
31	35.9	38.2	28.889	33	SSE	1	0.002	0.006	o. cum. strat. m
mean	40.51	41.87	29.334	34.9	NE 6N	1	—	—	6. stratus h. v
				34			2.907	5.528	

1857	Evening: gh			Wind			Max	Min	
	Jan 8	E	A	Bar	Dir:	Force.	T	T	
7	1	53.1	49.9	28.780	52.81 51.63	SW 10.	54.5	41.5	b.v. qq. cumulus
	2	57.	45.1	29.691	37.1 36.45	Wb N 1 1/2	45.2	32.	b v. stratus at horizon
	3	36.3	39.5	29.686	35.83 35.	ELS 3 1/2	43.9	30.	b. r sa
	4	48.4	44.2	29.290	43.12 42.63	WSW 3	47.8	35	o r.
0	5	33.2	38.8	29.291	32.33 32.3	NbW 1.	40	30	b v.
	6	27.6	36.2	29.370	26.2 28.63	NNW 1.	45	27.	fog: larger stars visible very sharp frost for a few hours.
	7	35.9	39.8	29.169	32.53	SSW 4	45.2	32	b. stratus. v faint aurora in N
	8	33.8	37.7	29.220	32.83	WbN 3	37	30.6	b. cumstrat. v
	9	39.8	38.7	29.620	38.43 38.43	SE 2	50.5	32	o. r
	10	52.5	46.2	29.664	52.43 51.23	SSW 10	53.5	41.2	o. q. v
	11	50	48	29.558	50.93	SSW 6	52.8	39.5	o. v
0	12	43.2	44.2	29.488	42.93 41.03	SE 7 1/2	50	40.8	o. q. v
	13	43.5	45.7	29.190	43.23	S 1/2 W 5	51	42	b, but clear dull. v. q
	14	47	45.8	28.823	45.43	SWbS 9	47.8	43.2	o. q. v. v
	15	41.2	44	29.079	41.13 38.83	WbS 4	47	36	b cumstrat. v clear & moving faster than b
at 9 ¹¹ 15	16	47.8	47.1	28.632	47.43 44.23	SWbS 12	52.2	38	b among clouds. q. v gale continue
at 8 ¹¹	17	40.	42.	29.270	39.53 37.93	SWbW 5 1/2	44.2	34	o with cumstrat
	18	46.2	43.5	29.574	46.23 44.53	S 1/2 E 9	49	35.1	o. q. v
0	19	46.2	45.8	29.279	46.53	SWbS 8	49.1	44	b. cumstrat. q. v
	20	41.	45.5	28.933	40.43 39.53	WbN 1/2	50.7	33.8	o. q. v
	21	33.8	37.7	29.170	32.73 32.03	SW 4	40.2	33	b. Aurora in NWbW. v
	22	36.3	40.	29.878	35.63 34.73	SWbS 2 1/2	52.5	34.8	b Faint Aurora in N. NW. v
	23	44.1	44.	29.875	42.83 42.33	S. 5 1/2	47	37	o. v. q.
	24	42.	44.	29.695	42.73 41.33	SWbS 3.	46.2	36.2	o. q.
	25	40.2	43.2	29.316	39.83 39.53	S 1/2 W 3	45.2	34.5	o. q. v
0	26	34.7	42.6	29.292	33.73 33.23	SWbE 3 1/4	45.	31.5	o. q. Large flakes of snow with rain.
	27	45.9	44	29.206	45.43 44.13	S 1/2 E 10	46	35	o. q. the squalls tremendous q.
	28	42.7	42.5	29.247	42.23	SWbSW 7.	51	38.2	Large, larger stars visible
	29	37.7	42.3	29.089	41.23 40.53	SW 4 1/2	51	33	o. v.
	30	31.9	38.8	28.939	38.23 36.53	SW. 2 3/4	38.5	31	Large v. stars very faint.
	31	32.6	37.2	29.235	37.33 36.53	N 1/2 E 2 1/2	40.8	32	b v. stars brilliant
mean		44.66	42.70	29.308			46.77	35.11	
							47.04	35.29	

1851	Morning 21 Hour			Wind			Rain		
Fobs	E	A	Bar	Hgt	Dir	Force	Square	Round	
1	30.7	36.	29.504	29.72	S.W. 6 S	$\frac{1}{2}$			6. m
0 2	38.3	39.	29.150	29.87	SW	2 $\frac{1}{2}$	0.060	0.208	10 6. cu. m
3	33.1	37.	29.641	32.23	SW 6 S	3			6. trace of shower. m
4	49.2	45.	29.014	42.23	SW 6 W	8	0.012	0.394	95 0. q. v
5	36.5	38.8	29.620	35.1	W	5 $\frac{1}{2}$	0.106	0.169	6. a bank in N.W. q. v
6	47.7	44.	29.534	42.6	SW $\frac{1}{2}$ S	12	0.058	0.306	95 0. q. h. v, <u>roar</u> moderate
7	42.9	43.	29.833	42.7	W 6 N	6	0.156	0.114	0. n. v. q. v
8	43.1	42.	30.168	43	SSW $\frac{1}{2}$ W	3			0. m, v to south not clear
0 9	47.9	45.5	30.096	47.8	SW 6 S	2 $\frac{1}{2}$	0.001	0.002	0. m
10	48.2	47.8	29.998	48.1	SW 6 S $\frac{1}{2}$ S	3	0.001	0.008	0. cl. m
11	43.9	45.2	29.881	47.33	SW $\frac{1}{2}$ S	2	0.015	0.054	0. cumulostrat h. v
12	39.8	43.5	29.834	39.23	ENE $\frac{1}{2}$ E	3	0.213	0.280	0. v
13	43.9	44.	29.942	43.73	S $\frac{1}{2}$ W	4			0. q. v
14	42.	43.8	29.987	42.23	SW 6 W	3			0. h. v to SE
15	43.	43.8	30.004	42.6	S $\frac{1}{2}$ E	5			6. anam
0 16	43.2	44.	29.731	43.23	SW 6 W	4	0.018	0.077	1 6. cumstrat v
17	49.1	46.2	29.450	49.7	SW $\frac{1}{2}$ S	10	0.005	0.028	6. destrat h. v
18	52.1	50	29.384	52.1	SW $\frac{1}{2}$ W	10	0.005	0.132	9. cir. cum 0. h. q. some drops of rain. v
19	41.7	45.2	29.532	50.3	SW 6 S	4	0.042	0.136	0. q. v
20	37.1	42.	29.734	36.7	SW 6 S	1	0.004	0.014	6. destrat. v
21	41.7	43.	29.724	35.8	NE E	1	0.000	0.004	7 6. m part
22	43.3	42.3	29.633	39.43	SE	5			10 6. destrat. m
0 23	41.5	43.2	29.600	41.2	SE	13 $\frac{1}{4}$			6. cir. cum v
24	42.5	43.2	29.717	42.53	ENE	5 $\frac{1}{2}$			4 0. v
25	36.9	40.5	30.274	42.2	NE	1 $\frac{1}{2}$	0.240	0.298	0. q. v
26	36.2	40.5	30.353	34.4	SW 6 W	0	0.001	0.003	6. trace of rain. v
27	34.5	40.	30.297	35.43	NE 6 N	0			10 6. cum. m.
28	38.8	40.	30.245	33.5	W	1			6. m
				32.8					0. destrat. v.
				35.2					
				36.7					
Mean	41.74	42.80	29.782			sum	0.967	2.827	

1851	Evening 9 ^h			Wind		Max.	Min.		
Feb'y	E	A	Bar.	Hyg.	Dir.	Force	T	T	
1	34.5	37.7	29.563	34.37 33.25	NW by NW	1	43.2	27	b. cum. in NW. strong white Aurora, primer = 9 p.m. behind the clouds and shooting upwards at times.
2	35.7	38.7	29.241	35.27 36.23	SW	8	38.8	30	o. g.
3	33	38.5	29.395	32.17 31.95	SW	3 1/2	43	30	b. v.
4	38.2	29.1	29.330	37.87 36.93	SSE	9	49.2	33	o. g. gg.
5	35.9	41.2	29.197	35.57 34.55	WSW	6	49.8	33.5	6 Aurora. v
6	39.5	41.4	29.824	39.43 38.71	SSW by S	5 1/4	48	36	o. v.
7	49.	48.3	29.475	48.71 48.25	SW	5	51.4	41	o. g. heavy rain
8	37.7	41.5	30.093	38.27 36.85	SW by S	2	51	37	b. v. r. thick stratus in SW: diffused Aurora
9	48.5	45.	30.159	48.57 47.75	SW	5 1/2	50	42	o. v. rain
10	50.1	46.9	30.000	50.73 48.71	SW by SW	4 1/4	52.2	46.5	o. v. g. regularly at 9 3/4
11	47.8	47.1	29.935	47.57 47.35	SW by SW	4	51	42	o. v.
12	40.3	45.3	29.844	49.57 49.43	W by E	3	48.5	38	o. v. rain
13	43.5	44.8	29.862	43.71 42.33	SE by S	2	46	39	o. v. seen through scintus clouds
14	42.3	44.6	29.955	42.71 40.45	S	3 1/2	48.5	38	b. v. slight haze, wide halo round D. from: at horizon
15	43.	42.5	30.025	42.57 40.55	SSE	2 1/2	51	39.5	o. v. r. behind scintus clouds
16	39.1	42.	29.840	38.87 36.75	S.	5	47.5	38	b. v. r. g. behind cir-cum: clouds,
17	44.7	46.	29.691	44.37 42.13	SSW by S	5 1/4	51	43	o. v.
18	50.9	49.	29.450	50.97 49.75	SW	9	52.1	48	o. g.
19	44.7	48.9	29.437	44.47 43.75	W by S	2 1/2	55.2	39.1	o. g. rain
20	36.8	42.7	29.642	35.77 35.55	SW	2	47.9	32.9	b. v.
21	37.8	41.5	29.764	37.17 36.15	S	2 1/2	46.1	33.	b. v.
22	41.5	44.	29.643	41.73 39.1	ESE	3 1/2	46.	42.3	b. v. cum. dispersed over the sky
23	38.	43.4	29.595	37.27 36.73	ENE	3.	47.4	36.8	b. v. r. Aurora in SE. pale pink & arches, no stars visible through str. height about 10°
24	39.9	43.7	29.622	39.27 38.	NW by E	3	46.5	39	large g. larger stars visible
25	37.8	42.	29.986	37.73 36.63	W by E	3	43.7	33	b. v. cum. stratus in SE. Aurora in SE.
26	35.1	40.	30.356	34.72 32.45	W by E	0	43.5	32	b. v. r. cir-strat overhead, bright all round horizon
27	37.7	42.7	30.307	37.33 34.8	SW	0. v.	43.8	30.1	o. g.
28	35.3	42.3	30.293	34.57 32.4	NW by W	1	43	31	b. v. cum. stratus in NW, diffused Aurora behind clouds
mean	41.00	43.14	29.767				47.42	36.69	
	40.64						47.69	36.81	

1851	Evening 9 ^h				Wind		Max.	Min.	
Month	E	A	Bar:	Hygr	Dir:	Force	T	T	
1	38.	41.8	30.235	37.2	SSW	3/4	47	31.3	b. cum. in E. strat in SW: faint & diffused Aurora in NW
2	37.3	42.2	30.226	36.5	SSW	2	43.8	36	haze. few stars visible
3	39.4	42.8	29.903	36.7	SSW & W	3	49	34.8	b. r.
4	45.	44.5	29.546	38.3	S	5	49.0	41	o. g. rain.
5	39.5	43.	29.730	38.3	SW & NW	5 1/2	47	38	b. v. thick cum: all round horizon
6	38.5	42.4	29.858	38.4	SW & W	0.	42.7	31.8	b. r. cumulus.
7	43.	42.5	29.615	41.7	SW & W	3	46	34.8	o. m.
8	44.5	45.3	29.616	44.1	S & W	8	49.2	41	o. r. a star or two visible -
9	37.	42.9	29.397	36.3	WNW	1.	45.	30.	b. r. dispersed cumulus
10	35.8	41.8	29.805	35.1	W & S	1 1/2	45.2	31.2	b. r. cirro-cumulus dispersed: faint diffused
11	43.8	43.	29.439	37.2	S & E	5.	45.5	37	o. r. rain.
12	39.8	44.	29.387	39.3	SW & S	4 1/2	49.5	35	b. r. broken cumulus, clear towards N. horizon -
13	39.4	45.5	29.500	38.9	SW & S	3	51.2	35	b. r. cirrus overcast, cum. in SW. clear towards North -
14	41.2	44.4	29.468	40.5	SW & S	4	50	39.3	b. r. dispersed cirro-cum. clear in North -
15	41.5	44.	29.699	41.0	W	1	48	35	b. cumulus and cirro-cum v
16	40.4	44.5	29.644	39.9	SSE & S	1 3/4	49.2	34	b. dispersed cirrocumulus.
17	41.	43.	29.488	40.5	E & ESE	1 3/4	45.1	40	o. r. mizzling rain -
18	40.8	43.1	29.235	39.8	SSW & W	5	49.5	39	b. r. g. heavy cumulus, clear in SE. horizon
19	43.	44.2	28.875	42.6	S & E	5 1/2	49.5	40.5	b. v. stratus in W & S: Barm? raining very much at 11 1/2 o'c
20	42.8	44.5	28.896	42.4	SE	4.	50.7	39	b. r. cum-strat round horizon -
21	43.9	45.3	28.628	43.6	S.	6 1/2	49.5	39.2	b. r. cumulus; bright in W.
22	40.6	46.7	28.578	42.1	N. & W	1.	51.3	37	b. r. cum-strat: dispersed. haze rising.
23	45.	45.7	29.246	44.7	NW & W	3	49.8	41.5	o. g.
24	40.8	45.1	29.566	40.3	SE & W	0	50.6	38.	b. r. haze rising, very thick in S & W. slight & diffused
25	44.9	47.	29.339	44.8	WNW	1 3/4	51.	39.	o. g. It blew 10 during the day
26	40.8	45.5	29.227	40.1	WS & W	3	48.6	39.3	o. g. a few zenith stars visible through haze.
27	42.	46.2	29.311	41.4	W & S	6 1/2	58.7	38.	b. r. g. cum. in W.
28	43.	45.5	29.340	43.1	S & W	4.	48.5	37.	o. g.
29	38.8	43.9	29.289	38.2	W & SW	3	48.3	39.	b. r. very changeable: thick cum. b. 1/2 hour previous
30	41.	43.6	29.882	40.4	W	2 1/2	47	35	o. g. Hail in the day
31	42.2	46.5	29.978	42.3	SW & W	3	52	39.2	b. r. cumulus, clear towards W. slight rain -
				40.7					b. stars visible near zenith. g?
Mean	41.12	44.21	29.456				48.41	36.82	

1851	Term Observation March 21 Civil Keckon									
Month	Wind									
	E	A	Bar	Hyg	Dir	Force	Rain		Cloud	
20.18	39.9	43.0	28.539	39.2	SE	4. 11.13.	0.120	0.140	b	Baromet Cumstrat. v
19	41.3	43.0	28.524	38.5	SE 1/2 E	13.29	—	—	b	same clouds &c
20	44.	43.2	28.507	42.7	SE	12.47	—	—	b	same character of sky
21	46.3	44.2	28.795	46.2	SE 1/2 E	19.58	—	—	b	much cumulostrat. v
22	46.7	45.9	28.777	46.7	SE 1/2 S	14.95	—	—	o.	Cumstrat. Nimbus in SW. v. v
23	47.1	46.9	28.750	47.2	SE	17.44	0.015	0.027	b	Cumstrat. Nimbus to N. v
21.0	47.5	48	28.736	47.5	SE	24.10	0.005	0.020	b	Cumulostr. q. v
1	47.1	48	28.709	47.4	SE 1/2 E	23.75	—	—	o.	numbe. v. v
2	48.2	48.2	28.677	48.2	SE	20.11	—	—	b	Cumstrat, some cum. v
3	48.3	48.1	28.650	48.3	SE 1/2 S	20.14	0.009	0.009	o.	r. v
4	46.3	47.2	28.632	46.3	SE 1/2 E	18.86	0.011	0.023	o.	q. r. v
5	45.5	47	28.618	45.5	SE 1/2 E	25.08	0.020	0.038	o.	q. numbus. r. v
6	45.1	46.1	28.611	45.1	SE 1/2 S	22.04	0.003	0.003	o.	q. v
33 7	44.1	45.8	28.615	44.1	SE 1/2 E	21.90	0.015	0.022	o.	q. v Heavy & beating rain
31 8	44.2	45.7	28.621	44.2	S	23.32	0.014	0.030	b	q. r. a few visible in W.
37 9	43.9	45.3	28.628	43.9	S	19.58	—	—	b	q. r. do
36 10	43.	45.	28.637	43.	SE 1/2 W	20.09	0.010	0.021	o.	r. q.
40 11	42.9	44.8	28.646	42.9	SE 1/2 W	18.13	0.004	0.008	o.	r. q.
35 12	42.5	44.7	28.648	42.5	SE 1/2 W	20.72	0.002	0.004	o.	r. q. force of wind very unsteady
44 13	41.5	44.1	28.651	41.5	S.	16.50	0.009	0.016	o.	rr. qq. do
36 14	40.2	45.7	28.647	40.2	S.	20.09	0.008	0.013	b	r. q. a few visible in W. { a trace of clear sky at SE horizon
33 15	40.8	43.3	28.643	40.8	S	21.90	0.003	0.001	b	r. qq. a patch of blue sky overhead - Heavy Cum:
40 16	40.8	43.2	28.652	40.8	S. 1/2 E	18.13	—	—	b	rr. q. clear in N.E. horizon. cum-strat.
32 17	40.3	42.9	28.654	40.3	S 1/2 E	22.59	—	—	b	rr. q. do { a trace of clear sky at SE horizon
38 18	40.3	42.6	28.661	40.3	S	19.04	—	—	b	rr. clear in SE horizon. cum-strat.
							0.128	0.235		

1851	Mornings, 21 st			Wind			Rain		
April	E	A	Bar	Therm	Dir	Force	Snow	Thunder	
1	46.	44.6	29.760	45.72 43.75	SW by W	5	0.095	0.206	o. r.
2	49.1	45.5	30.041	49.22 45.9	NW by W	3	0.062	0.148	b. cumulus. r
3	45.8	46.2	30.681	45.73 44.13	NW	0	—	—	o. h. r
4	47.1	47.2	29.800	46.6 42.2	ESE	2	0.030	0.030	b. cumulus. r
5	45.1	46	29.927	44.53 42.73	SW	3	—	—	b. cumulus. h. r.
6	51.8	48	29.897	51.4 47.1	SSW by W	3	—	—	o. cirrocumulus very high. h. r
7	43.5	46.5	30.115	43.33 35.53	E	3½	—	—	b. cumulus. r
8	43.3	46.2	29.864	42.8 40	NE by E	0	—	—	o. cumulostratus. r
9	45.8	46.5	29.897	45.3 42.7	NW	½	—	—	o. cirrocumulus. h
10	43.9	44.8	29.909	43.3 41.5	N	1	—	—	o. cirrocumulus. h.
11	46.	46.2	29.808	45.5 41.6	N by E	2¾	—	—	b. cirrocumulus h. r.
12	45.6	45.1	29.907	45.4 43.9	NE	4	—	—	b. dispersed cumulus. r.
13	45.5	45.5	29.878	45.1 44.3	NE by E	4	—	—	o. r.
14	45.2	44.9	29.726	45.2 39.7	E. by E	5½	—	—	b. r. cumulus.
15	45.5	47	29.600	46.3 44.4	ESE.	7	—	—	o. r
16	50.5	47.4	29.270	50.4 49.5	S by E	8	0.122	0.430	o. r. r.
17	52.5	49.	29.415	52.2 51.7	SW	5½	0.062	0.093	b. r. cirro-cumulus. R. 1093
18	50.1	46.9	29.596	50.2 48.8	S	8	0.010	0.050	b. r. cirro-stratus.
19	51.4	48.	29.470	50.6 46.6	SSW by S	4½	0.120	0.265	b. r. cirro-cumulus.
20	52.1	48.5	29.117	51.9 47.8	S by W	7	0.025	0.036	b. r. cirro-cumulus. Bar. falling
21	51.3	48.5	29.040	51.3 48.3	WSW	4	0.011	0.090	o. r.
22	50.	47.	29.483	49.2 46.7	W by N	2	—	—	b. r.
23	50.	47.4	29.594	49.2 40.4	NNE	2¼	0.025	0.028	o. r.
24	49.	47.7	29.798	48.3 46.6	N by E	1½	0.111	0.102	b. r. cirrus at zenith. dispersed cum.
25	45.3	47.2	29.728	45.3 39.3	SW	5	0.006	0.011	b. r. cumulus dispersed.
26	44.	45.4	29.620	43.5 39.3	N by W	3¾	—	—	b. r. cumulus
27	44.8	43.9	29.530	45.3 40.3	SW	5½	0.010	0.006	b. r. cumulus.
28	44.	44.5	29.492	42.5 42.5	NNW	4.	—	—	o. r. r. drops of rain on dry bulb.
29	47.6	44.8	29.513	47.2 42.4	NNW by S	1¾	0.086	0.041	b. r. cumulus; clear at zenith.
30	47.5	45.6	29.57.2	47.2 44.6	NW by W	1½	0.048	0.003	b. r. dispersed cumulus
Mean	47.31	46.33	29.679			Sum	0.823	1.538	

1851	Evening 9 ^h			Wind			Max	Min	
April	E	A	Bar.	Hygr.	Dir	Force	T	T	
1	45.7	46.4	29.680	45.17 44.93	SW	5	57.8	40	0.8.
2	46.9	46.7	29.802	46.77 44.23	WbN	4 1/2	50.8	41	0. v.
3	47.6	47.2	30.100	45.53 45.53	WbN	2	53	44.2	0.8.
4	45.8	47.7	29.883	45.77 45.83	SSE	1 3/4	52	41	0.8.
5	41.3	47.1	29.918	40.97 39.83	SSE	1 1/2	54.7	39	Thick haze, larger** visible - cum-strat in NW.
6	45.2	49.3	29.900	44.77 42.93	WNW	0	55.5	41	0. v. Thin cirrus: larger** visible at intervals -
7	45.	49.1	29.957	44.87 44.33	SSE	1.	55.7	36	0. v.
8	39.4	46.3	29.945	38.77 37.13	EbN	0.	49.7	38.8	b. v.
9	44.	48.1	29.832	43.27 42.43	NEbN	1	49	39	0. v.
10	41.1	48.	29.945	40.97 39.23	SW	0	54.2	36.	b. v. Cirrus in W.
11	42.9	48.	29.860	42.27 40.53	SW	1 3/4	52.1	39.8	b. v. Thin & dispersed stratus, through which ** are visible
12	41.9	47.8	29.880	41.47 41.23	NbE	2 3/4	52.	36.8	b. v. dispersed Cirrocum:
13	40.8	46.7	29.893	40.17 39.83	NbE	2	49.	38.5	b. v. S 1/2
14	40.	45.2	29.810	39.77 38.13	NEbE	1 1/2	49.8	32.5	b. v. slight haze - + S 1/2 - N. E
15	41.3	46.2	29.653	40.97 40.53	ENE	1 3/4	47.	40.7	0. v.
16	46.2	47.1	29.500	46.77 46.53	EN	2 3/4	51.	42.3	0. v.
17	50.5	50.7	29.351	50.17 50.13	S	6 1/2	58.8	40.8	b. cumulus all round horizon - v.
18	40.2	47.8	29.565	39.77 38.73	WSW	4	54.9	39.	b. cum-strat at NW & horizon v.
19	47.	49.	29.600	46.87 46.43	SW	2 1/2	54.8	42.8	0.88. slight rain
20	44.	49.	29.233	43.97 43.53	EbS	1	54.7	42.3	0.8.
21	46.4	49.3	29.079	45.97 44.53	SSW	6 1/2	55.4	49.	b. cumulus: very changeable. v. (reg: at 93 ^h)
22	43.5	50.	29.328	43.47 42.63	W	1	57.	39.	b. v. Cum. towards W
23	48.1	50.	29.569	42.57 41.13	NEbE	2	57.	38.7	b. v. Cum-strat. round horizon,
24	46.1	50.6	29.430	45.37 44.33	NNE	0.	57.3	38.5	b. v. cumulus overhead, clear at S. horizon
25	45.3	50.8	29.721	45.17 43.23	WNW	0	57.6	40.	0. v.
26	39.3	47.	29.708	38.57 38.23	WNW	2	48.2	37.5	0. v. thin clouds at zenith, through which a few large stars were visible
27	37.8	43.3	29.579	36.97 36.53	WNW	1 3/4	48.2	31.8	b. v. heavy cumulus in NW -
28	40.8	45.8	29.528	40.17 39.73	NW	2.	50.	37.5	b. v. cirro-cumulus, clear in NW. horizon
29	41.5	46.5	29.503	41.67 39.13	WNW	2 1/2	50.	37.	b. v. dispersed cumulo-stratus
30	41.	47.1	29.597	46.77 45.83	SW	0	52.	38.6	b. v. cumulus at horizon heavy hail at 1 ^h -
mean	43.39	47.79	29.688				52.46	39.00	
	43.37								

1851		Morning 21 st H.			Wind		Rain			
May		E	A	Bar	Hygr.	Dir	Force	Square	Round	
4	1	47.4	47.	29.701	47.2	WNW	2.	0.028	0.029	O.V.
	2	47.3	46.2	29.735	47.2	N.W	2 3/4	0.008	0.012	b.v. cumulus
	3	45.5	44.6	29.753	45.4	N	4	—	—	b.v. cirro-cumulus - clear overhead.
0	4	48.8	45.6	29.778	48.2	NNE	4	—	—	b.v. cirro-cumulus,
	5	46.5	46	29.800	46.5	NW	3	—	—	b.v. cumulus strat
	6	52.1	47.5	29.615	51.8	SW	4+	—	—	b. cum. cum strat. v
	7	50.2	49.9	29.195	50.3	SSE	9	0.150	0.242	O. g. heavy rain -
	8	50.8	47.	29.348	50.8	E	3	0.395	0.460	b.v. cum. cum strat. v
	9	52.6	49.	29.369	52.8	E.N	2 1/2	0.200	0.210	O.V. slight rain
	10	49.	49.1	29.696	48.3	NNE	2 1/2	0.211	0.207	O.V.
0	11	52.8	48.5	29.995	52.2	NNE	1.	0.020	0.015	b.v. cumulus.
	12	53.	50.	30.154	52.6	SW	2.	0.040	0.040	O.V.
	13	56.8	51.3	30.193	56.7	S	3	0.018	0.018	O.V.
	14	53.3	51.8	30.000	53.3	S.E	4 1/2	—	—	O.V.
	15	51.	51.2	29.820	50.9	S.E	3	0.061	0.081	O.V.
	16	55.7	52.	29.724	55.3	WNW	1	0.017	0.015	O. haze.
	17	52.1	52.2	29.625	52.5	WN	3	0.065	0.075	O.V.
0	18	45.6	49.7	29.681	45.5	WN	6	0.474	0.214	b.v. rain. nimbus at zenith. clear in W.
	19	54.8	51.1	30.057	55.3	WN	3	0.074	0.065	O.V.
	20	56.6	53.	30.106	56.3	WS	2 1/2	0.070	0.111	O.V.
	21	56.	54.1	30.065	56.7	WN	4 1/2	—	—	O.V.
	22	52.9	51.1	30.200	52.9	WN	2	0.064	0.074	O.V.
	23	54.8	52.4	30.162	54.8	S	4 1/4	—	—	O.V.
	24	54.8	54.2	30.000	53.7	WN	4	0.016	0.007	O.V.
0	25	51.7	52.4	29.915	51.7	WN	2.	0.017	0.014	O.V.
	26	51.4	51.9	29.931	51.7	SW	3.	0.009	0.017	O.V.
	27	54.2	52.5	30.178	54.2	WN	2 1/2	0.003	0.009	O.V.
	28	57.7	55.	30.309	57.7	W	2.	—	—	O.V.
	29	57.4	54.4	30.384	57.4	WN	2 1/2	—	—	O.V.
	30	54.	52.	30.393	54.	NW	2	—	—	b.v.
	31	59.	55.3	30.239	58.7	NW	2.	—	—	O.V.
		52.40	50.06	29.907			Sum	1.630	1.915	

Reg. at 21st 25th
 except Anemometer

1851	Evening 9th				Wind		Max	Min	
May	E	A	Bar:	Hyg:	Dir:	Force	T	T	
41	46.1	49.1	29.580	45.92	SWW	1	54.9	41.	O.V. a very small patch of clouds at N.W.
2	42.1	48.	29.778	41.72	SWW	2 1/2	53.5	39.2	b. v. heavy cumulus at wind point -
3	40.	47.	29.750	39.22	SWW	1 3/4	51.6	34.6	b. v. do. cir-cum: at E & S. horizon.
4	41.	46.8	29.790	40.62	SWW	2.	50.	34.4	b. v. cum: at N & W. cirro-cum: in E & S.
5	40.5	47.4	29.813	39.82	SWW	0	52	36.8	b. v. strat: at N & S. cirro cum. in E & S.
6	45.2	48.3	29.769	44.92	SW	1 1/2	52	40.2	b. v.
7	49.1	50.	29.395	48.82	S	5	56.8	47.5	O. g.
8	44.7	48.9	29.280	44.32	WSW	0.	51.7	39	O. g. rain.
9	45.1	49.9	29.423	44.82	E & S	4	56.7	48.5	b. v. cum-strat in NW.
10	47.5	50.4	29.526	47.12	E & N	1.	59.1	44.3	O. g. rain.
11	46.5	50.	29.836	46.12	N & E	1 3/4	56.2	41.5	b. v. cirro-cumulus from North West -
12	50.9	52.2	30.068	50.82	E & N	0.	60.	45.3	O. v. slight rain
13	50.3	51.5	30.183	50.32	S & E	4	57.2	48.	O. v.
14	54.1	54.	30.111	49.12	S	4	62.3	47.2	O. v.
15	50.3	52.8	29.907	50.32	SSW & S	4 1/2	56.5	47.7	O. v.
16	50.	52.2	29.738	49.92	SSW & S	1 1/4	56.8	48.8	O. g. slight rain
17	52.1	54.1	29.671	52.12	SW & W	2	62.7	48.2	O. v.
18	46.3	51.4	29.659	46.12	WSW	4	56.6	40.	O. v.
19	45.	51.	29.927	44.42	W	3	56.	48.6	b. v. dispersed cirro-cum: Nimbus in SW - slight rain
20	51.3	52.6	30.033	51.22	SW	3	59.2	51.3	O. v. rain.
21	54.1	56.	30.124	54.12	W & N	2	65.1	50.4	O. v.
22	49.6	54.7	30.156	49.12	W & N	0.	61.3	41.9	b. v. cirrus. dispersed.
23	48.6	54.8	30.241	48.52	N & E	1.	60.6	45.2	b. v. mist round horizon
24	55.6	54.9	30.068	55.62	WSW & W	2 1/4	61.7	51.7	b. v. cumulus dispersed.
25	47.5	54.8	29.871	47.12	W & N	2 1/2	57.5	45.5	b. v. Cumulus:
26	46.4	53.5	29.987	45.92	SW & N	1.	57.6	44.3	b. v. dispersed cumulo-stratus.
27	49.	53.1	30.105	48.62	W	1.	56.5	41.	O. v.
28	54.	56.	30.255	54.82	W & S	1 1/2	62.4	52.	b. v. cumulus.
29	55.1	56.4	30.340	55.42	W & N	1 1/2	63.5	47.2	O. v.
30	47.9	53.8	30.425	48.12	N & E	2.	64.5	42.7	b. v.
31	52.2	57.9	30.333	52.12	N & E	1	69.	46.	b. v. Thin cirrus dispersed -
Mean	48.33	52.05	29.908				57.55	44.26	

1851	Mornings 21 st			Wind			Rain			
June	ℓ	A	Bar.	H _g	Dir	Force	Square	Round		
1	56.8	55.2	30.02	56.5	WbN	2½	—	—	O. V.	
2	53.7	55.5	29.45	53.5	SWbW	3½ 4½	0.083	0.065	O. V. rain	
3	49.3	60.5	29.68	48.3	WbS	2½	0.011	0.030	b. V. cumulus	
4	51.7	52.	29.42	51.7	SWbW	3	0.295	0.262	b. V. cumulus	
5	53.2	51.	29.50	52.5	SWbW	3½	0.020	0.018	b. V. dispersed cumulus.	
6	56.	52.9	29.67	55.4	SSE	2	—	—	O. V.	
7	56.9	54.	29.55	56.9	SSWbW	8	0.208	0.219	O. V.	
8	53.7	53.3	29.71	53.3	W	0	—	—	O. V.	
9	53.5	52.4	29.53	52.2	WbN	2½	—	—	b. V. dispersed cum. stratus.	
10	53.2	52.	29.71	52.3	WbS	1.	—	—	b. V. cumulus, clear at zenith	
11	55.3	54.	29.20	54.9	WbN	1.	0.592	0.764	O. V. slight rain.	
12	55.4	53.	29.64	54.5	WbN	2½	0.464	0.803	O. V.	
13	58.7	54.2	29.81	58.7	SWbW	2	—	—	b. V. cumulus.	
14	54.8	55.	29.53	54.7	S	6	0.085	0.104	O. S. rain	
15	56.1	54.4	29.61	56.4	W	7	0.045	0.084	b. V. cumulus	
16	56.7	54.3	30.16	57.7	WbW	4½	0.017	0.036	b. V. cumulus	
17	58.2	55.1	30.02	58.2	SWbW	4.	0.074	0.286	O. V. rain.	
18	57.	57.	29.90	57.2	WbS	4½	0.125	0.174	b. V. cum-stratus.	
19	57.	57.2	29.86	57.7	SWbW	5.	0.091	0.091	O. V.	
Term	20	61.7	59.8	29.64	62.2	SWbS	4	—	—	O. V.
21	55.3	57	29.74	55.5	W	—	—	—	b. V. cum strat cirrus	
22	54.2	55.2	30.09	53.9	WbN	2½	0.007	0.002	O. V.	
23	62.3	56.9	30.03	62.7	SSW	2½	—	—	O. V.	
24	59.3	58.9	29.97	59.3	SW	4½	—	—	O. V.	
25	60.9	58.2	29.98	60.5	SW	4¾	—	—	b. V. cum-strat.	
26	65.3	59.	29.99	65.1	ESE	2	—	—	b. V. cirro-stratus.	
27	70.3	63.4	29.94	70.7	ESESE	2½	—	—	b. V. stratus.	
28	73.1	66.9	29.95	73.4	SESE	4	—	—	b. V. thin stratus	
29	74.8	67.8	29.96	75.1	SSE	4.	—	—	O. V.	
30	67.9	67.8	29.93	68.3	S	1.	0.154	0.164	O. V.	
mean	58.14	56.46	29.77			Sum	2.371	3.452		
	58.47							3.202		

1851	Evening 9 th				Wind		Max:	Min:	
June	8:	A	Bar:	Hygr:	Dir:	Force.	T	T	
1	54.4	56.7	30.143	54.2	WbN	2.	62.5	49.5	0. v
2	57.	58.1	29.833	57.4	SWbW	3/4	—	—	0. v
3	42.	53.1	29.690	41.2	SWbW	2.	68.3	40.6	b. v. cum-strat in NW.
4	45.1	53.6	29.559	44.2	EbN.	2 1/4	58.3	48.6	0. g. rain. (very heavy rain at 4 1/2 th Thunder)
5	46.	54.	29.429	45.2	W	0	58.3	43.6	b. v. v. cumulus; nimbus in W: (heavy showers during day, hail)
6	48.8	55.5	29.631	48.7	SWbW	0	62.2	44.7	b. v. cum-strat: round horizon.
7	56.8	55.	29.456	55.6	SW	7/2	58.3	49.	0. v.
8	49.5	55.1	29.713	48.9	W.S	3.	62.1	46.2	0. v.
9	48.9	54.3	29.500	48.2	NbW	0	58.6	45.	b. v. clear at N. horizon
10	46.9	55.	29.721	46.5	W.N	1.	51.6	42.3	b. v. stratus.
11	48.5	54.7	29.506	48.3	SE	6.	60.	47.	0. g. heavy rain -
12	50.4	54.	29.351	50.7	N.NW	1.	58.	45.5	0. g. rain without intermission all day
13	52.5	56.1	29.793	52.4	W.S	2	63.5	46.8	0. v.
14	53.7	56.2	29.829	53.7	SbE	2	61.8	52.5	b. v. cumulus.
15	54.9	56.1	29.453	55.5	SWbW	5/2	63.4	50.4	0. v.
16	49.1	56.	29.891	47.6	N.NW	4.	61.2	48.6	b. v. clear in N.N.E. horizon: rain -
17	51.5	57.	30.297	51.1	W.NW	1 3/4	62.2	48.6	b. v. cum-stratus -
18	58.6	56.9	30.004	58.6	N.SW	5	61.5	55.5	0. v.
19	54.	58.6	29.923	53.9	W	1 1/2	64.5	57.4	0. v.
20	59.1	59.7	29.783	59.6	S	2.	67.1	55.6	0. v.
21	50.6	58.4	29.574	50.3	WbN	1 1/2	68.	49.3	b. v. cum-strat. in E.
22	48.9	57.3	29.979	47.9	NWbW	1 1/4	60.	47.	b. v. dispersed stratus.
23	51.9	57.7	30.121	51.7	WbN	1 1/2	62.3	52.	b. v. stratus in W & N. horizon -
24	58.4	59.2	29.987	58.6	SW	3 1/2	65.5	55.3	0. v. (registry at 9 th 50 th)
25	58.4	60.1	29.988	58.4	SSWbS	4	67.7	53.7	b. v. cum-stratus
26	61.9	62.2	29.990	62.2	SSE	2 1/2	74.4	51.6	b. v. v. cumulus at N.W. horizon.
27	63.9	66.3	29.975	64.9	ESEbE	2.	76.5	55.3	b. v. cirro-stratus in W horizon
28	65.7	70.1	29.950	65.5	E	0	80.	61.	0. v. sky covered with thin stratus.
29	66.6	69.4	29.953	67.7	SE	2.	79.	63.6	b. v. stratus.
30	66.8	70.	29.920	67.9	SSE	1 1/2	77.3	62.	0. v. rain.
Mean	53.99	58.21	29.798				64.44	50.14	only 29 days report in book shown

Term observation June 21st Rains

Jun	E	A	Bur	Hyp	Dir	Force or Vel	Squm	Roud	
20.18 141	57.2		29.670	57.13 54.63	SSW	5.10 miles	0.008	0.011	o. stratulus
23 19	58.7		.666	58.53 55.33	SWbS	8.67	" 1	" 5	b. stratulus & cirrus
60 20	60.4		.663	60.33 58.83	SWbS	11.99	—	nope	b. strat: cir: cum
63 21	61.8		.635	61.93 57.83	SWbS	11.42	—	—	o. cum-strat.
86 22	63.3		.616	63.47 58.33	SWbS	8.36	—	nope	o. strat.
74 23	65.1		.603	65.23 57.23	SWbS	9.72	—	—	o. cum-strat
21 49 0	65.7	62.1	.593	66.33 59.13	SWbS	14.68	—	—	o. cum-strat.
64 1	64.9	62.4	.587	64.97 60.13	SWbS	11.26	—	—	o. cum.
60 2	62.9	62.2	.569	63.53 61.13	SWbS	11.99	.040	.041	o. rain
66 3	62.2	62.	.555	62.17 58.63	SWbW	10.90	.008	.005	o. rain
75 4	61.3	61.9	.543	61.33 58.83	SW	9.59	.005	.004	o. rain
105 5	55.9	61.5	.556	58.57 53.93	WbW	6.85	.010	.009	o. rain
132 6	53.7	60.9	.562	53.33 51.13	WbN	5.45	.005	.003	o. rain
143 7	53.2	60.	.557	53.73 51.73	W	5.03	.014	.014	o. cir-cum.
138 8	53.9	59.3	.565	50.13 51.63	W	5.21	.003	.001	b. cum: in E
180 9	50.6	58.4	.574	50.33 48.63	WbN	4.00	—	—	b. cum-strat in E.
125 10	50.1	56.5	.572	49.83 48.13	W	5.76	—	—	b. cum-strat in E. breaking up
165 11	50.1	55.2	.580	49.93 48.23	WbS	4.36	—	—	b. thick cumulus at zenith, clear at SE
102 12	50.8	56.1	.597	50.33 48.93	WbS	7.05	—	—	b. cumulus
230 13	49.	56.5	.596	48.17 47.63	WbN	3.13	—	—	b. cirro-cumulus dispersed.
164 14	49.	55.2	.600	48.73 47.33	W	4.39	—	—	b. strat. in E: cir-cum: dispersed.
144 15	49.4	55.6	.605	48.73 47.33	W	5.00	—	—	b. cirro-cumulus.
124 16	51.7	55.8	.621	49.73 48.83	WbS	5.80	—	—	b. cumulus: mizzling rain; a bright rainbow at sunrise
128 17	50.5	55.6	.655	50.13 48.93	WbN	5.62	—	—	o. cumulus.
21.6 18	51.9	56.	.677	51.53 49.33	WbN	11.79	—	—	b. cumulus. mizzling rain

0.094 0.093

1851

Morning 21st

Wind

Rain

July	E:	S:	Barom:	Hgt:	Dir:	Force	Square	Round	
1	63.6	65.2	29.961	64.2	NbE	3½	0.114	0.110	b. v. Cum-strat
2	63.6	63.6	30.085	57.7	NEbN	2	—	—	b. v. stratus round horizon
3	58.2	59.2	30.009	57.8	NE	0,	—	—	b. v.
4	60.	60.3	29.921	57.8	SWbW	1.	—	—	b. v. Cumulus
5	57.3	60.7	29.950	57.1	NWbW	2½	—	—	b. v.
6	61.1	61.2	29.895	57.1	NW	3½	—	—	b. v. Reg. at 9½
7	60.	61.	29.697	57.1	NWbW	2½	0.098	0.082	b. v.
8	54.6	57.5	29.645	57.1	SSWbS	2.	0.013	0.012	b. v. rain
9	55.1	58.5	29.659	57.3	NWbN	2.	0.180	0.175	b. v.
10	55.	56.4	29.868	55.	SWbS	2½	0.042	0.050	b. v.
11	61.9	60.1	29.780	54.	SWbW	5	0.015	0.020	b. v.
12	62.7	62.1	29.383	54.	SWbS	6	0.105	0.150	b. v. SWbS.
13	54.3	57.7	29.007	52.2	SW	6	0.176	0.473	b. v. rain. WbS
14	57.5	57.	29.493	52.2	WSW	3.	0.150	0.225	b. v. Rain blowing gently
15	59.	57.	29.650	52.6	W	0½	0.022	0.019	b. v.
16	56.8	56.	29.745	52.9	NW	0	0.730	0.639	b. v. Cumulus.
17	55.3	56.	29.789	52.9	NbW	0.	0.007	0.004	b. v.
18	58.2	56.9	29.624	52.9	SEbE	2.	0.107	0.090	b. v.
19	55.3	56.	29.348	52.9	NWbW	3.	0.140	0.153	b. v.
20	57.2	57.5	29.770	52.3	WbN	2½	0.004	0.008	b. v.
21	60.1	56.6	29.839	52.5	SE	2.	0.080	0.080	b. v. cirro-cumulus
22	58.3	58.3	29.556	52.5	EbN	1½	0.035	0.039	b. v. rain.
23	56.4	59.	29.445	52.5	EbN	3	0.045	0.053	b. v. (at 9.40)
24	58.3	57.9	29.355	52.5	NEbE	1½	—	—	b. v.
25	57.7	57.	29.560	52.5	NWbW	1½	—	—	b. v.
26	58.9	56.7	29.642	52.5	SWbS	1.	—	—	b. v. Cumulus.
27	61.4	60.	29.395	52.5	SSW	½	0.452	0.500	b. v. Cumulus
28	60.2	59.1	29.547	52.5	SW	0	0.212	0.210	b. v.
29	56.9	57.5	29.905	52.5	NWbN	0.	0.235	0.200	b. v.
30	62.7	59.	29.595	52.5	SWbS	5	0.235	0.350	b. v.
31	61.4	58.4	29.683	52.5	SWbW	3	0.013	0.013	b. v. Cumulus (at 9.28)
mean	58.50	58.69	29.671				3.210	3.655	

1851	Evening 9 H			Wind			Max:	Min:	
July	°	'	Bar:	Nygr:	Dir:	Force	T	T	
1	62.2	66,	29.920	62.27 60.83	SWW	1 1/2	73.5	59.3	O.V.
2	59.8	66,	30.065	60.43 57.43	N. b E	2,	70,	53.5	O.V
3	54,	61,	30.058	53.53 52,	N b E	1 1/2	67.4	47.8	b. v. v
4	52	59.8	29.955	52, 49.2	NNE b E	1 1/2	67.1	49,	b. v. dispersed cirro-cumulus
5	56	63.1	29.929	55.93 51.53	SW b W	1 1/2	66.2	55.8	b. v. cumulus
6	56.9	62.7	29.983	56.83 54.13	W b S	1 3/4	54.8	57,	O. V.
7	57.5	61.1	29.741	57.43 56.53	W b S	1 3/4	64.7	56,	O. V. slight rain -
8	52,	60.7	29.788	51.73 48.53	NW b W	1	63.7	50.6	O. V.
9	55.1	58.8	29.567	55.13 52,	W. NW	2,	64.8	53.8	O. V.
10	49.9	56.7	29.911	49.43 45.93	NW b W	1 1/2	62.1	49.2	b. v. v. cirro-cumulus
11	58.3	60.3	29.901	58.23 56.83	W	2 1/2	68.2	54.9	O. V.
12	59.1	61.4	29.619	59.53 58.53	W b S	3 1/2	69.4	58.6	O. g.
13	59,	61.5	29.903	58.93 57.13	SSW	8.	65.3	48.6	O. g. Bar: Rising
14	53.3	56.1	29.365	57.13 49.13	W	5.	60.1	48.9	b. v. cumulus.
15	50.3	58.3	29.616	49.43 47.73	NW b W	1.	62.4	48,	b. v. stratus.
16	52.4	58.2	29.715	47.73 51.63	SSW b W	0.	61,	46.5	b. v. v. a very heavy shower at 0 1/2 H
17	50.2	59.1	29.803	50.63 48.53	N. NW	0.	64.1	47.9	b. v. cum. strat.
18	53.7	58.4	29.784	53.73 50.43	S	2 1/2	62.1	50.8	b. v. cirro-cumulus.
19	51.5	56.3	29.463	51.13 50.63	NNE b E	3	59,	50.	O. g. rain
20	51.3	57.5	29.617	51.93 49.33	W. NW. N	2,	63.3	47.8	b. v. stratus in N. W
21	55.7	59,	29.856	55.73 54.33	WSW b W	2.	65.1	48.8	O. V. rain.
22	56,	60,	29.755	56.23 52.93	ESE	4	67,	54.5	O. V.
23	55.8	59.2	29.471	55.83 55.13	N b b E	1 3/4	60.7	53.6	O. g. rain.
24	55.1	59.8	29.344	55.63 53.33	NE b E	2 1/2	63.2	53.	O. g.
25	54.9	59.8	29.508	54.73 53.93	N b W	0.	62.3	49.9	b. v. cumulus
26	52.3	59,	29.653	52.43 50.43	W b S	1 1/2	63.8	48.4	b. v. cirro-cumulus. (at 9 H 40 m)
27	57.9	58.4	29.413	57.93 55.43	SSE b E	2	63.6	54.7	O. g. heavy rain
28	58.4	61.4	29.441	58.43 56.43	S	3	58.3	55.5	b. v. heavy cumulus. (58.4) (57.0)
29	55,	60.6	29.755	54.73 54.23	N.	1 1/2	68,	55,	b. v. (at 9 H 35) cumulus; nimbus,
30	55.2	59.2	29.836	55.33 52.23	S b W	3	64	52.5	O. V. (at 9 H 30)
31	59,	60.3	29.661	59.23 56.13	W	2	68.1	52.7	O. V
mean	54.87	60.03	29.690				64.03	51.56	
	55.51								

1857	Morning 9 th			Hyg.	Wind		Rain		
August	E	A	Bar:		Dir.	Force	Square	Round	
1	59.3	57.	29.788	59.37	S	3	—	—	b. vv. cum-stratus.
2	64.	62.2	29.716	53.97	SW	5	0.154	0.282	o. g. rain
3	60.	59.7	30.038	64.17	NE	1.	0.042	0.055	b. vv. Cumulus
4	59.9	58.	30.138	60.37	SEbE	1 1/2	—	—	o. v.
5	59.3	59.2	30.163	59.47	NEbE	2	—	—	b. v. Cumulus
6	60.1	60.	30.115	58.87	NEbE	3	—	—	b. v. stratus dispers.
7	61.5	61.5	30.050	54.27	NEbE	1/2	—	—	o. v. (reg. at 4.25 th)
8	60.1	61.2	29.955	60.07	NEbN	1/2	—	—	o. v.
9	62.	62.2	29.927	57.77	SSE	1	—	—	o. v.
10	61.7	62.8	29.837	61.77	SSEbS	3 1/2	0.116	0.236	o. v. rain
11	64.9	62.5	29.855	60.47	NEbN	1 1/2	0.016	0.018	b. vv. cum-stratus.
12	65.1	63.9	29.727	64.67	SWbS	2	0.025	0.030	o. v.
13	61.1	61.3	29.543	65.37	SSW	1.	0.076	0.071	o. v. rain
14	63.2	63.2	29.740	60.97	WbN	1.	0.036	0.036	o. v.
15	61.	61.3	29.765	63.37	SSE	2.	—	—	o. v.
16	64.	61.8	29.644	61.47	W	1	0.186	0.186	b. v. Cumulus
17	58.5	58.5	30.053	64.17	N	1	0.143	0.105	b. v. Cumulus
18	63.4	62.	30.070	58.57	SWbS	3	0.030	0.060	o. v.
19	63	62.	30.042	64.17	SWbW	1	0.004	0.005	o. h. v.
20	65.2	64.	29.711	62.97	SWbS	4	0.009	0.011	o. v. g.
21	60.1	61.7	29.614	61.87	S	3	0.295	0.311	o. v. rain
22	60.8	60.4	29.583	60.27	SW	2 1/2	0.150	0.200	o. v.
23	50.7	57.	29.240	59.27	NE	4 1/2	0.276	0.304	o. v. rain Bar ^{re} leaving.
24	56.6	55.9	29.900	55.17	W	1.	0.296	0.316	b. v. Cumulus
25	60.2	58.4	29.835	56.67	SWbS	4	0.336	0.500	o. v. g.
26	59.3	58.2	29.730	60.77	WbS	4 3/4	0.009	0.026	o. vv. g.
27	54.3	56.3	29.708	59.37	SW	3 1/2	0.020	0.024	b. v. cum-stratus
28	52.2	55.	29.768	52.37	NbW	2 1/2	0.010	0.010	b. v. Cumulus.
29	56.5	54.6	30.102	46.57	SWbW	1	—	—	b. v. v. Cumulus.
30	59.8	56.	30.080	56.57	SW	4 1/2	—	—	o. v.
31	60.6	59.	29.992	57.37	SWbS	3 1/2	0.155	0.123	o. v.
	60.27	59.57	29.842	60.77			2.384	2.809	

1857	Evening 9 H.			Hygr.	Wind		Max.	Min.	
August	E	A	Bar:		Dir:	Force	T	T	
♀ 1	54.6	60.5	29.740	54.5	WbS	134	64.5	49.5	b. v. cirro-cumulus - cirrus in zenith
2	62.6	62.5	29.705	63.2	SSWbS	5	65.5	58.5	o. g. rain
① 3	60.0	63.	29.873	60.1	NWbW	0.	71.	53.6	o. v.
4	54.8	59.5	30.125	54.7	NNE	1.	65.7	47.7	b. v.
5	54.	62.9	30.177	54.8	EbN	1 1/2	69.5	48.8	b. v. slight haze.
6	54.7	61.5	30.143	54.5	NbE	1.	66.	49.6	b. v. (at 9 1/2 H)
7	57.4	63.1	30.060	57.3	EbN	2 1/2	67.6	53.	b. v. stratus in S & W.
8	57.6	63.1	29.982	57.6	EbN	1 1/2	70.7	51.8	b. v.
9	56.3	64.	29.934	55.9	SSE	0	69.1	53.5	Razy. a few large stars visible.
① 10	59.4	63.	29.891	59.4	E & S	2	69.1	58.	o. v.
11	61.1	64.4	29.854	61.5	W	0.	71.3	54.	o. v.
12	61.7	64.	29.760	62.1	SbE	3 1/2	70.4	59.4	o. v. slight rain
13	59.	61.5	29.648	59.4	S	3 1/4	72.6	58.2	b. v. cumulus: clear in zenith.
14	56.7	63.8	29.633	56.7	SbW	1 3/4	69.	58.	b. v. stratus round horizon -
15	57.4	63.5	29.832	57.7	NNW	1 3/4	70.	53.2	b. v. cum-strat dispersed.
16	60.	61.8	29.614	60.	SSWbS	4	64.8	57.3	o. g.
① 17	58.9	62.6	29.885	58.9	NbE	2	68.5	49.7	o. v.
18	58.1	60.2	30.095	58.1	SbE	3 1/2	67.7	57.5	o. v.
19	63.5	64.5	29.995	64.	SWbS	4	69.	57.2	o. v. q.
20	59.9	64.2	29.918	59.9	N	0	70.3	59.7	o. h. v
21	59.9	62.8	29.760	60.2	WSWbW	2	72.1	57.2	b. v. cum-strat
22	55.7	60.	29.614	55.7	SWbS	0	67.9	55.1	b. v.
23	53.1	61.2	29.559	52.8	SWbS	3 1/4	66.4	49.7	b. v. stratus.
① 24	50.8	56.8	29.640	50.1	W	2	57.2	48.1	b. v. stratus at horizon
25	54.1	58.1	29.833	54.1	SbW	3 1/2	63.	53.8	o. v. q.
26	56.7	58.8	29.590	56.7	SWbW	5 1/2	65.3	55.6	o. g.
27	52.9	58.5	29.685	52.9	WSWbS	3	63.	50.3	b. v. cum-stratus.
28	49.	56.7	29.743	48.7	W	2	60.4	47.7	b. v. cumulus in W
29	52.	56.4	29.985	52.	NNW	1.	58.4	46.	b. v. cumulus.
30	51.6	57.7	30.117	51.6	WbS	0 1/2	61.5	47.1	b. v.
31	58.5	58.5	30.066	58.5	SWbW	4	66.	58.	o. v.
mean	56.94	61.26	29.853				66.58	53.10	
	58.67								

1857	Morning 21 st			Wind			Rain		
September	E	A	Bar:	Hyg:	Dir:	Force	Stem	Roome	
1	64.	60.6	30.027	65.17 63.93	SWbS	2	0.039	0.068	0. r
2	67.	62.2	30.077	62.27 63.83	SW ¹ W	3	—	—	0. r
3	64.3	62.2	30.032	64.83 61.53	NbW	1	—	—	b. r. cirro-cumulus,
4	56.1	61.	30.131	56.63 54.33	NbE	3	0.165	0.153	0. v
5	56.3	59.	30.307	56.17 51.	EbN	3.	—	—	b. v. v Cumulus dispersing
6	54.	55.	30.427	53.17 50.33	EbN	3	—	—	b. v. Cumulus round horizon
7	56.5	55.5	30.418	56.17 53.	E.	3	—	—	0. r.
8	56.7	56.	30.303	56.67 50.33	SSE	2	—	—	0. v.
9	58.8	56.3	30.328	58.83 52.	SSE	3	—	—	b. r. dispersed thin stratus.
10	55.	55.	30.317	55.3 53.	NbW	0	—	—	b. r. thin dispersed stratus - (at 9 th)
11	55.3	54.8	30.246	55.33 52.53	NbW	0	—	—	b. v.
12	54.4	55.3	30.202	54.93 52.23	NbW	0	—	—	b. v. cum-stratus
13	56.3	55.4	30.273	55.93 53.9	NbW	0	—	—	b. v.
14	53.3	53.2	30.433	53.7 52.	WNW	0	—	—	b. r. haze at horizon
15	56.3	55.6	30.479	56.33 54.8	NbW	1	—	—	b. v.
16	58.	57.3	30.397	57.83 55.5	ENE	2	—	—	0. v
17	54.2	58.1	30.272	53.73 51.33	WSW	1	—	—	0. r.
18	58.3	58.4	30.038	58.33 55.23	SSE	1	—	—	0. v
19	59.	58.5	30.008	57.27 56.73	SW	0	0.016	0.033	0. r.
20	62.1	58.5	29.927	60.17 55.53	SSE	3	—	—	b. v. cum-strat. light haze
21	60.8	60.8	29.776	64.17 59.	SSW	3 1/2	0.015	0.028	0. v. r.
22	58.4	61.	30.063	58.83 56.33	NNE	2	—	—	0. v.
23	57.3	57.1	29.929	57.37 54.73	SbE	3 1/2	0.003	0.007	b. v. cirro-cumulus
24	47.8	55.7	29.706	46.67 45.63	NbW	2	0.648	0.720	0. v. rain
25	47.	51.3	29.725	46.57 42.93	NbW	2 1/2	0.083	0.091	b. v. cirro-cumulus.
26	49.8	51.5	29.576	49.57 44.63	NbW	2 1/2	0.020	0.022	b. v. cum-stratus.
27	52.	51.2	29.776	51.87 49.13	SWbS	4	—	—	b. r. cirro-cumulus
28	51.3	51.6	29.272	51.27 49.73	SW	6	0.060	0.092	0. v. heavy rain
29	52.0	55.0	28.903	52.77 54.33	SW	5	0.262	0.504	0. v. rain
30	52.	53.8	28.685	51.37 50.63	SSW	5	0.450	0.720	0. v. heavy rain
	56.28	56.56	30.000			Sum	1.754	2.438	

1857	Evening 9H			Wind			Max	Min		
September	E	A	Bar:	Hyg	Dir:	Force	T	T		
1	62.2	60.7	30.000	62.47 61.95	WSWLS	3	67.3	60.8	0. g.	q
2	63.	62.5	30.007	62.47 62.23	SWLW	1 1/2	70.2	61.2	b. r.	Cirro Cumulus
3	61.1	63.7	30.079	61.57 60.43	N.	0.	71.2	58.3	0. r.	
4	59.	63.6	30.037	58.17 57.83	NbE	2	69.1	55.1	0. r.	
5	55.	61.3	30.224	55.73 55.23	NEbN	2.	61.3	51.	b. r.	Cirro-stratus.
6	48.3	56.	30.380	48.23 46.73	NEbN	0	61.4	43.6	b. v.	
7	48.	58.	30.436	48.83 46.33	EbS	1 1/2	62.5	45.1	b. v. r.	a magnificent Aurora in N.W. sending up red & green streamers to the magnetic zenith; it commenced at 8 ^h 30 ^m & ended at 9 ^h 15 ^m
8	42.8	57.7	30.379	52.53 49.73	SELS	2	60.7	51.8	0. v.	at 8.40 it showed an arch about 26° in height extending from WbN. to N.E.
9	54.8	57.5	30.286	54.83 50.53	SSE	2	60.3	53.	0. r.	which gradually broke up into red & green waves of light all terminating in the mag: zenith; at 8 ^h 55 ^m the aurora was at its maximum
10	53.1	58.	30.310	52.73 49.53	SbE	0	63.7	45.8	b. v. r.	entirely filling the northern hemisphere, answering streaks of light from the mag: zenith; so well defined were they that the North hemisphere appeared like the surface of a globe covered with its meridians.
11	54.5	58.	30.275	54.13 48.23	S	2	63.5	44.3	b. r.	thin dispersed stratus at 11 ^h 2 ^m & halo round D
12	52.2	59.5	30.207	51.83 50.33	SbW	0	67.3	46.2	b. h.	
13	53.7	59.7	30.232	53.23 50.33	SSW	0	67.2	46.5	b. v.	
14	54.2	61.5	30.315	54.23 51.73	SSW	1	66.8	45.5	b. v.	
15	53.8	61.8	30.494	53.83 52.83	SWbS	1	66.6	45.3	b. v.	Aurora in N.W.
16	55.8	62.1	30.432	55.23 54.13	S	1	67.1	46.2	b. v.	no streamers
17	52.2	58.7	30.343	52.23 50.63	SELS	0	62.8	51.9	0. Razy.	
18	55.1	59.8	30.147	55.13 53.33	NEbE	0	60.6	54.	0. g.	
19	56.1	59.8	29.983	56.13 54.93	WbS	0 1/2	62.8	55.1	0. g.	
20	58.	60.4	29.975	58.13 56.83	SSE	1 1/2	65.1	52.7	0. g. g.	
21	58.3	59.1	29.861	58.43 56.23	S	4 1/2	65.9	56.8	0. g.	
22	59.8	61.7	29.919	59.73 56.83	WSWbW	0	63.7	57.3	0. g.	
23	51.6	57.8	30.070	51.33 50.23	NEbN	1.	62.	49.	b. v.	
24	55.7	59.8	29.663	55.23 54.23	SbW	3	63.1	46.5	0. g.	
25	42.8	52.8	29.807	41.43 40.43	NbWbN	1	53.2	40.9	b. v.	Cumulus in W
26	43.6	52.6	29.610	42.73 41.13	NbWbN	2 1/2	57.2	43.	0. r.	cold rain.
27	46.	52.7	29.787	46.23 43.93	W	1 1/2	52.3	42.6	b. v.	Cumulus.
28	52.6	54.	29.615	52.53 49.73	S	2	57.6	49.5	0. r.	
29	53.8	54.1	28.971	53.83 53.33	SEbE	7.	54.3	50.8	0. g. g.	Heavy rain & Bar: falling very much
30	49.8	53.	28.950	49.53 47.33	SbE	4	57.3	49.7	b. v.	stratus.
Mean	53.90	58.63	30.025				62.24	49.64		

1851	Term observations			Sept. 22 nd Civil reckoning					Clouds &c
Sept.	E	A	Bar	Hygr.	Wind Dir: Force	Velocity	Rain Square	Round	
21 st 18	59.1	59.7	29.750	59.9	S ¹ / ₂ W	miles 20.56	—	drops.	Bar: heaving.
35 19	58.4	59.8	29.760	58.5	S ¹ / ₂ W	17.99	0.005	0.013	O.V. Drops of rain commencing to fall.
40 20	59.6	60.	29.766	57.2	S ¹ / ₂ W	14.99	0.010	0.015	O.V. rain: heaving of Bar: increased.
48 21	60.8	60.8	29.776	60.3	S ¹ / ₂ W	9.23	—	—	O.V. Bar: heaving gently.
78 21	60.8	60.8	29.776	61.1	SSW	9.23	—	—	O.V. g. heaving ceased.
75 22	60.6	60.9	29.779	59.1	SWbS	9.59	—	—	O.V.
76 23	62.4	61.1	29.784	63.3	SSWbS	9.47	—	—	O.V.
22 28 0	62.0	62.1	29.796	60.3	SSW	14.99	—	—	O.V. mizzling rain
76 1	64.3	62.5	29.797	63.2	SWbS	9.47	—	—	O.V. g.
117 2	63.6	62.5	29.800	61.2	SWbS	6.15	—	—	O.V.
126 3	65.4	62.7	29.809	61.7	SWbS	5.71	—	—	O.V. Cumulus.
135 4	63.5	62.5	29.826	63.1	SWbW	5.33	—	—	O.V. mizzling rain
137 5	63.4	62.3	29.842	61.2	SWbW	5.25	—	—	O.V.
220 6	62.3	62.1	29.860	63.2	WSW	3.27	—	—	O.V.
∞ 7	60.8	62.	29.885	60.7	WSW	0.00	—	—	O.V.
614 8	63.	62.	29.900	61.3	WSW	1.17	—	—	O.V. light rain
∞ 9	59.8	61.7	29.919	60.3	WSWbW	0.00	—	—	O.V.
∞ 10	59.7	62.2	29.920	58.9	WbS	0.00	—	—	O.V. a few drops of rain.
∞ 11	59.3	61.8	29.930	57.9	WbS	0.00	0.002	0.002	O.V.
∞ 12	59.	61.5	29.941	58.7	WbS	0.00	0.002	0.002	O.V.
∞ 13	58.5	61.8	29.943	58.4	WbS	0.00	—	—	O.V.
∞ 14	58.7	61.6	29.956	58.7	WbS	0.00	—	—	O.V.
∞ 15	58.7	61.3	29.964	58.1	WbS	0.00	—	—	O.V.
∞ 16	58.3	61.5	29.985	58.7	WbS	0.00	—	—	O.V. (at 16 ¹ / ₂)
44 17	57.9	61.4	29.987	58.3	N	2.95	—	—	O.V. wind heaved suddenly at 16 ¹ / ₂ 35 ^m
212 18	57.	61.7	30.007	57.4	NbE	3.39	—	drops	O.V.

1851	Morning		21 Hour	Hyg.	Wind		Rain		
Oct.	E	A	Bar:	^{dry} Wet	Dir	Force	Square	Round	
1	51.	48.4	28.825	{50.52}	SE	1 1/2	0.698	0.680	b. v. stratus.
2	52.5	52.	29.237	{52.85}	SW W	1	0.020	0.026	o. v.
3	50.2	52.	29.158	{52.33}	SW	4	0.122	0.114	b. v.
4	50.8	51.2	29.225	{50.4}	W	3	0.117	0.217	b. v. cirro-stratus.
5	46.5	49.	29.458	{50.3}	SWbW	2	0.149	0.164	b. v. stratus round horizon
6	51.7	52.	29.325	{51.7}	W	5	0.030	0.060	b. v. cumulus. bar. rising.
7	48.	49.	29.685	{47.7}	SWbW	2	0.015	0.014	b. v. cirrus
8	52.3	51.3	29.445	{45.3}	S	2	0.350	0.454	b. g. rain
9	52.1	52.	29.806	{51.9}	WbS	3	0.097	0.091	o. v.
10	59.6	56.1	29.739	{55.6}	SWbS	9	0.001	0.002	b. cumstrat v
11	48.6	51.1	30.013	{48.3}	SSW	5	0.065	0.111	b. cumstrat. halo, h.
12	52.8	55.2	29.698	{51.2}	WNW	4	0.064	0.102	o. m. d.
13	51.	52.	29.684	{50.6}	SW	4	0.003	0.007	b. cumulus. h. v
14	47.5	51.	29.170	{47.3}	W	3	0.065	0.123	b. cumstrat. v
15	45.3	48.2	29.250	{42.9}	NWbW	4 1/2	0.001	0.005	b. cumstrat. q. v
16	44.9	48.5	29.658	{43.4}	SW	2	0.016	0.020	b. cumulus. h. v
17	55.5	52.	29.544	{55.2}	SW	5	—	—	o. cumstrat. q. v
18	58.	54.8	29.561	{52.3}	SWbS	2	0.018	0.173	o. d. h
19	51.8	52.2	29.783	{52.3}	ESE	1	0.028	0.036	o. d. m
20	56.2	56.	29.760	{56.2}	S	4	0.001	0.003	b. cumstrat. v. q
21	52.1	54.1	29.832	{52.1}	NNE	1	0.048	0.050	o. d. m
22	55.2	54.3	30.063	{52.9}	SSE	1	0.004	0.004	o. m
23	52.	52.8	30.196	{51.4}	NW	0 1/2	0.001	0.002	b. h
24	51.	54.	30.240	{50.8}	SbW	1	0.001	0.005	o. m
25	48.	53	30.101	{47.9}	SWbW	1	—	0.002	m
26	52.8	53	30.084	{52.5}	NWbN	3	—	—	o. v
27	52	52.8	29.856	{50.3}	SW	4	—	0.004	b. cum. cumstrat. q. v
28	45.2	48.5	29.404	{42.1}	NNW	2	0.170	0.250	b. cumstrat. v Aurora at 17 ^h with streamers
29	45.2	45.5	29.670	{44.9}	NIE	5	0.054	0.035	b. cumstrat. q. v diff. of gases from hail
30	42.3	44.4	29.536	{41.9}	SW	4	—	—	o. v
31	44	44	29.337	{40.7}	SWbS	5	0.042	0.064	b. cum. q. v
	50.39	51.31	29.657				2.181	2.898	
	50.42		29.624						

1851	Evening 9 th			Nys	Wind		Max	Min	
Oct:	E	A	Bar:	$\frac{875}{100}$	Dir	Force	T	T	
1	45.	51.3	28.712	{44.12}	SWLS	2	52.7	43.6	b. v. stratus in S. horizon
2	49.5	53.	29.045	{48.12}	NELE	1	55.6	47.	o. v.
3	51.3	53.9	29.033	{51.32}	SELE	4	59.5	46.8	o. v. light rain
4	47.2	52.	29.013	{47.2}	SSW	1.	56.3	45.6	b. v. v. cumulus.
5	47.1	51.7	29.380	{46.42}	SWLW	4½	53.6	41.	o. v. a heavy shower very changeable all day
6	47.5	51.6	29.490	{47.1}	SWbW	2	54.8	45.7	o. v.
7	44.5	49.7	29.533	{44.5}	SWbW	3½	55.4	41.7	b. v. cirro-cumulus.
8	45.7	51.2	29.709	{45.3}	SW	3	54.8	45.	b. v. cirrus. a halo round
9	56.5	54.	29.650	{56.5}	WSW	3	59.	48.	o. g.
10	58.4	54.1	29.821	{58.4}	WSW	3	60.1	51.9	o. v.
11	49.9	56.	29.897	{49.9}	SW	2	64	44.5	b. m.
12	51.9	54	29.870	{51.9}	S	7	59	48.5	o. v.
13	47.8	53.8	29.750	{47.8}	SW	4	58	46	b. cirrostrat. v
14	51.5	53.5	29.310	{51.5}	SW	6	56	44	o. v. g
15	40.5	49.7	29.197	{40.5}	SW	2½	51	40	b. v. cirrostrat
16	41.5	49.	29.526	{41.5}	WbN	3	50.7	40	b. v.
17	50.	50.7	29.583	{50.7}	SW	5	56.	44.2	o. g.
18	57.1	54.	29.498	{57.1}	SW	8	59.7	54.9	o. g. g
19	50.2	54.8	29.766	{50.2}	NbW	0	62.5	47	b. v. cumstrat faint Aurora NNW
20	57	55.3	29.782	{57}	S	5	61.8	51	o. g.
21	54.6	55	29.733	{54.6}	SW	6½	59.4	51.1	o. g. g
22	54.9	54.9	29.950	{54.9}	SE	4	58.8	51.9	o. g. g
23	51	54.	30.123	{51}	SE	1	58.8	46	b. h
24	50.8	55.2	30.205	{50.8}	SSW	2	60	50.5	o. g. m
25	52	54.2	30.200	{52}	SWbW	1	57	47.2	o. m the mist is luminous
26	50.9	52.9	30.056	{50.9}	NW	0	52.8	47.5	o. m
27	51.5	53.5	30.100	{51.5}	WbN	1	55.2	50	o. g.
28	43.1	50.8	29.454	{43.1}	NW	2	55.5	39.9	b. cumst. nebula. o. v. Aurora in NW
29	39.5	45.5	29.460	{39.5}	NbE	4	46.3	38.5	b. cumst. g. v. Aurora
30	36.2	45.3	29.722	{36.2}	S.W	2	48	35.1	b. bank of ESW mist to S. v. to N
31	41.	45.2	29.352	{41.}	SW	3	47.5	37.5	o. v
	45.34	52.25	29.607				55.71	45.22	
	48.98								

1851	21.4			Winds			Rain		
No	E	A	B	Height	Dir	Force	Sq. mi	Row	
1	38.2	44.5	29.275	35.7	NW 1/2 W	3	0.165	0.242	b. cum. strat. v.
2	36.1	42.5	29.800	35.2	W 1/2 S	2	0.030	0.013	b. cum. strat. in hor. v. snow in night
3	37	42.2	29.886	35.9	W 1/2 S	0 1/2	—	0.233	b. cum. strat. strat. m. v. } open
4	36.9	40.8	29.999	36.2	SW	2	—	—	b. cum. strat. v. p.
5	47	45	29.933	35.4	SW 1/2 S	2	—	0.005	o. v.
6	46.7	45.8	29.902	42.3	SW 1/2 W	2	—	0.045	o. m.
7	48.2	46.8	29.779	42.7	SW 1/2 W	2	—	0.042	o. v. (square-gauge leaking)
8	45.2	45.9	29.791	44.8	W 1/2 S	2	—	0.008	o. m.
9	46.1	45.5	29.666	43.8	SW 1/2 S	3 1/2	—	0.048	o. v.
10	42	45	30.050	44.1	NE 1/2 S	0	—	0.029	b. m.
11	45	45.5	30.184	44.2	WSW	1	—	0.065	o. fog.
12	46.1	47	30.342	44.3	SW	2	—	0.010	o. v.
13	39.5	45	30.354	44.5	N	1 1/2	—	0.003	b. m. cirro-stratus.
14	48.9	46	29.853	38.7	SW 1/2 S	1 1/2	—	0.048	o. v.
15	45.2	45.7	29.861	45.3	SW	1 1/2	—	0.016	o. m.
16	34	41.2	29.932	44.3	SW 1/2 W	2	—	—	o. m. snow lying on ground
17	36.5	43.5	29.821	31.9	W 1/2 S	1 1/2	—	0.032	o. m.
18	43	41.1	29.615	35.8	SW 1/2 W	2	—	0.140	o. m. rain
19	41	42.3	29.900	42.2	NNW	2	—	0.012	b. v. cum. strat.
20	46.4	44.5	29.927	37	W 1/2 S	3	—	0.013	b. v. cumulus
21	40	42.5	30.120	44.1	SW 1/2 S	1 1/2	—	—	b. v. stratus.
22	40.7	41.3	29.681	37.5	SW	6	—	0.083	o. g. heavy rain Box: leaving
23	37.7	40.2	29.302	37.1	SW	3 1/2	—	0.198	o. g. rain.
24	37.3	39.4	29.196	36.8	SW 1/2 S	3 1/2	—	0.020	o. m.
25	33.8	38.3	29.617	36.3	SW	1	—	—	b. m.
26	33.8	37.6	29.750	32.7	W 1/2 S	1 1/2	—	—	b. v. cirro-cumulus.
27	33.3	36.4	29.911	32.7	WSW	1	—	—	b. m. cirro-cumulus
28	33.8	37	29.929	31.8	SW	3	—	—	o. fog.
29	31.6	36.5	29.991	32.1	SW 1/2 W	2 1/2	frozen	frozen	fog.
30	30.5	30.5	30.259	30.5	SE 1/2 S	0	frozen	frozen	b. m. cirro cumulus
31				29.9					
	40.50	44.70	29.854				1.195	1.405	
	40.05								

1857	9 Evenings				Wind		Max	Min	
Nov	E	A	Bar	Hyg	Dir	Force	I	I	
1	43.8	45.5	29.124	43.2	SW	2	47.2	36	o. g. r
2	36.1	43.5	29.582	35.4	WbN	3	42.5	33.2	1 cum. v
3	39.9	43.2	29.702	39.2	W	4	45.5	34	o. r
4	35.1	43.5	30.011	34.1	WbS	1	42.5	33	b. v. thin stratus -
5	45.8	44.1	29.918	45.2	NWbN	4 1/2	47.2	36.3	o. v. r.
6	46.	45.8	29.968	44.4	NW	1 1/2	50.6	37.8	o. v. light rain.
7	49.	46.1	29.785	43.9	SWNW	1 1/2	49.5	46.	o. m. light rain
8	49.6	47.3	29.732	48.6	SWNW	3	51.7	42.	o. v.
9	45.	46.5	29.621	44.4	WbW	3	48.5	41.7	b. v. cirro-cumulus in SW
10	47.5	46.5	29.812	47.8	NbE	4	49.	40.	o. v.
11	39.3	45.	30.143	39.2	SWNW	1 1/2	49.9	39.7	b. v. cirro-stratus.
12	47.	46.9	30.255	46.9	WSW	2	51.1	44.5	o. v.
13	46.1	46.9	30.345	46.1	WbN	2	47.9	38.3	o. v.
14	41.1	44.8	30.121	44.3	WSW	2	48.7	39.5	o. g. r.
15	44.3	46.5	29.880	44.2	WSWbW	1	51.8	41.8	b. g. Cumulus.
16	39.	43.9	29.941	38.7	NbW	3 1/2	47.8	32.9	b. g.
17	34.9	40.5	29.895	33.2	SWbN	1	37.9	33.5	b. g. cumulus.
18	37.2	40.7	29.777	36.8	WSW	1	43.	36.	o. g.
19	44.4	43.9	29.655	44.1	NbW	3	50.3	39.4	b. v. cumulus.
20	43.5	44.6	29.939	43.1	WSW	4	47.8	40.3	o. g. r.
21	42.3	43.5	30.024	42.4	NbW	2	47.3	38.4	b. v. cum-strat.
22	37.	42.3	30.100	36.7	WbS	1 1/2	44.7	35.2	o. m.
23	39.3	43.4	29.438	38.8	WSW	2	48.	35.	b. v. stratus round horizon -
24	34.1	40.	29.312	33.9	SWbW	3	40.3	36.7	b. v. stratus at W horizon
25	37.3	40.7	29.364	37.3	NbE	2	39.9	31.	b. m. cumulus
26	34.1	39.1	29.716	33.8	WSWbW	2.	40.8	30.8	b. v. cumulus.
27	33.	38.7	29.825	32.1	WSW	1 1/2	40.4	29.3	b. v. stratus at W horizon
28	32.3	37.5	29.932	31.7	WSW	2	38.5	30.8	b. m.
29	33.	37.7	29.961	32.1	SWbW	0	33.5	28.3	o. fog.
30	34.1	37.2	30.509	32.1	ENE	2 1/2	39.	27.8	b. v. cumo-strat at horizon
31									
	40.33	43.17	29.845				44.90	35.97	
	40.37								

1851	21 st Morn'g				Wind		Rain		
Dec:	E	A	Bar:	Therm:	Dir:	Force	Square	Round	
1	38.8	37.8	30.129	38.8 37.3	WNW	1 1/2	—	0.251	o. v.
2	40.	39.	30.183	40. 38.4	W	1	—	—	o. v.
3	46.1	41.	30.060	46.1 45.5	SW	2	lighting	0.116	a fog.
4	49.2	45.5	29.988	48.2 48.8	WSW S	5	—	0.085	o. v.
5	47.	45.5	29.714	47. 45.5	SW S	6	—	0.022	o. v. q. Bar: rising
6	51.	49.8	29.725	51. 49.6	SW S	7	—	0.012	o. v. q.
7	45.6	46.7	29.661	45.6 43.6	SW S	4	out of order	0.480	b. v. cirro-cumulus
8	53.1	48.7	29.247	53.1 52.	SSW	9	—	0.112	o. v. Bar: rising
9	52.5	52.5	29.445	52. 50.9	SW	7	—	0.329	b. v. stratus cirro strat
10	45.6	46.2	30.179	45.6 43.8	SW	6	—	0.092	b. v. h. strat. cirro cum
11	39.9	47.9	30.285	39.9 38.3	SW W	3	—	0.029	fog
12	34.3	43.0	30.332	34.3 33.5	SW	2	—	0.014	fog
13	42.	42.9	30.282	41.9 40.7	E S	2	—	0.004	mist
14	41.7	42.3	30.173	41.7 40.9	S	4 1/2	—	0.001	b. h. v. stratus hemulous
15	49.	45.6	30.033	48.9 46.7	SSW	6	—	0.001	b. h. v. stratus cirro strat
16	46.	46.0	30.032	45.2 43.2	SW	5	—	—	b. v. cumulo strat
17	47.5	46.0	29.675	47.5 46.2	S	8	—	0.189	o. r. nimbus
18	39.8	42.	29.736	39.8 38.9	SW	4	—	0.080	b. m. stratus
19	50.2	48	29.517	50.2 49.05	SW	8	—	0.024	b. v. cum. strat nimbus
20	42.	46.1	29.393	40.6 40.35	SSW	3	—	0.342	b. m. stratus
21	42.3	44.9	29.515	42.3 39.8	NW W	2	—	0.100	o. cum. strat v
22	32.1	40.	30.015	31.1 30.9	SW S	1	—	—	b. m.
23	41.4	41.2	29.967	41. 39.	SW E	3	—	0.002	b. cumulo strat. fr. v
24	41.2	43.5	30.061	41.2 42.9	SW	5	—	—	b. v. cum. strat. m
25	42.6	43.	30.250	42.6 42.1	ESE	0	—	0.125	o. m
26	38.8	42.	30.396	38.8 35.1	SE	2	—	—	o. m
27	36.	39.9	30.461	36. 33.1	S	1+	—	—	o. m
28	37.9	39.5	30.519	37.9 35.6	S	1+	—	—	o. m
29	39.5	40.5	30.286	39.5 37.1	SW	3 1/2	—	—	o. v. h
30	38.5	40.	30.066	38.5 36.7	SW	3	—	—	o. m
Jan 1	37.2	39.7	29.675	37.2 35.8	SSW	5	—	—	b. cum. strat h
	43.03	43.92	29.971					2.113	
	42.96							2.103	

1851	7th Evening				Wind		Max	Min		
Dec	E	W	Bar.	Hg.	Dir	Force	T	T		
1	36.3	36.8	30.208	36.5	WSW	1	38.5	29.8	o. m.	
2	40.5	38.3	30.179	40.3	WSW	2	41.8	38.3	o. v.	
3	41.9	40.	30.115	41.3	SW	2	46.1	39.3	o. g. mizzling rain	
4	45.1	42.5	30.052	45.2	SWbS	4	49.8	44.2	o. v.	
5	50.	46.2	29.982	49.7	SWbS	4	51.5	46.	o. v. g.	
6	50.8	47.5	29.764	50.8	SWbW	6	51.8	46.4	o. v.	
7	50.	49.1	29.203	49.7	SbW	12.	52.5	44.3	o. v. g. g. Bar. falling rapidly (at 9.20) Bar. 29.320 at 7.15	
8	43.	46.4	29.825	43.5	SSWbS	4	53.	41.8	b. v. cirro-stratus.	
9	54.5	51.3	29.513	54.4	SbW	8	57.4	50.6	o. v.	
10	46.3	48.2	29.743	46.1	WSW	5	54.2	43.8	b. v. g. cum	
11	43.	47.8	30.317	43.3	SSW	2½	49.2	33.6	b. v.	
12	37.8	44.3	30.269	37.1	SW	0	44.3	33.5	b. v. stratus	
13	39.	42.4	30.287	38.6	NE	2	42.0	33.9	o. v. one star to SW. cum strat	
14	42.	43.3	30.251	41.8	SbE	2½	48.0	38.8	b. m.	
15	42.4	43.8	30.062	42.3	SbE	5+	54.	43.	b. v. cirrus & cirro strat	
16	47.8	46.6	30.057	47.6	SSW	5+	52.5	44.6	o. v. cum	
17	44.	45.3	29.887	43.8	S	3+	47.9	44.	o. d. a few drops of rain	
18	39.9	45.1	29.754	39.1	SW	3½	49.5	35.	b. v. cum strat low in N. faint Aurora	
19	48.5	45.3	29.716	47.8	SbW	5	51	38	b. v. nimbus - cum. - Aurora slight rain	
20	52.	50.	29.264	51.8	S	9	53.6	40.1	o. d. nimbus	
21	38	44	29.323	37.3	NNW	2	44	36.	b. fog and haze. cum. - Aurora	
22	35.2	43.4	29.858	34.6	SW		45.2	32	b. Aurora much and stream	
23	35.2	40.9	30.008	34.2	SbW	0	41.5	32	b. cumulo strat on. heavy hear frost.	
24	43.	42.7	29.974	43.2	S	3	44.2	40.5	o. g.	
25	42.4	43.5	30.178	42.2	SSW	0+	46.5	42	fog	
26	40.9	43.	30.377	40.6	SSW	1	44.5	39	o. v. d	
27	35.2	40.1	30.434	35.5	SbE	0	41	34	o. h	
28	38	40.2	30.465	37.7	S	0+	39.8	33	o. v. h	
29	39.4	40.7	30.354	39.3	SW	3½	41.5	36.8	o. v. g	
30	36.9	40.1	30.197	37.2	SWbW	3	43	33.5	o. v. g. fog in distance	
31	38.	39.9	29.875	37.2	SW	2+	40.9	35.3	o. v.	
	42.57	43.83	29.951				46.68	38.51		
	42.48						47.03	38.80		

[illegible]

Summary Evening			Morning			Rain		Vapour	Wind		Thermometer		
1851	H	A	Bar	H	A	Bar	□	○	Tension	Force	Direction	Max	Min
Jan ¹	40.66	42.70	29.331	40.51	41.87	29.355	2.907	5.528				11 ⁰ 1-54.5	3 ¹⁰ -30.0
Feb ¹	41.64	43.14	29.786	41.74	42.80	29.801	0.967	2.827				19-55.2	2-30.0
March	41.12	44.21	29.472	43.03	42.71	29.493	1.299	2.547	2.647			27-58.7	10-31.2
April	43.39	47.79	29.693	47.31	46.33	29.689	0.823	1.538				17-58.8	27-31.8
May	48.33	52.05	29.903	52.45	50.06	29.907	1.630	1.905	1.915			31-69.0	4-34.4
June	53.99	58.21	29.777	58.47	56.46	29.759	2.371	3.452	3.202			28-80.0	3-40.6
July	55.51	60.03	29.663	58.60	58.69	29.646	3.210	3.655				1-73.5	16-46.5
Aug ¹	58.67	61.26	29.834	60.27	59.57	29.817	2.384	2.807	92.309			13-72.6	29-46.0
Sept ¹	53.90	58.63	30.002	56.28	56.56	29.983	1.754	2.438				4-69.1	26-43.0
Oct ¹	48.88	52.25	29.601	50.42	51.31	29.664	2.181	2.898	2.918			19-62.5	30-35.1
Nov ¹	40.37	43.17	29.864	40.65	44.70	29.867	0.182	1.405				15-51.8	30-27.8
Dec ¹	42.58	43.83	29.967	42.96	43.92	29.987	0.000	2.133	92.103			9-57.4	1-29.8
Summer	52.19		29.795	55.96		29.793	13.530	17.155					
Winter	41.42		29.683	42.70		29.697		15.978					
Year	46.86		29.763	49.38		29.745		33.133	32.845				

	Rain Days	Mean Ther	Mean Bar										
Long	26	40.28	29.343				19.526						
Feb ¹	17	41.37	29.793				6.580						
March	20	42.07	29.482				25.106						
April	14	45.35	29.691										
May	20	50.36	29.905										
June	15	56.06	29.768										
July	23	56.68	29.654										
Aug ¹	21	58.10	29.825										
Sept	11	55.09	29.992										
Oct ¹	28	47.56	29.627										
Nov ¹	21	40.41	29.865										
Dec ¹	21	42.81	29.976										
	237												

Mean Temperature of Year 48.12

Max - June 28th - 80

Min - Jan⁶ - 27⁰ - 27.8

Mean Barometer 29.746

max - Nov¹ 30 - 30.509

Min - March 21 - 28.628

Rain on 240 days