

1861

10 a.m.

and

Ran

Jan

7

A

Bar

 H_3 3

Der

Rules

Square

Round

1	36.1	37.2	29.490	35.5	N	132.3	0.090	0.264	o.v.m.d. KS
2	32.6	34.5	30.002	32.5	N6E	20.5	0.128	—	b.v.m. K. CK
3	29	35.5	30.100	31.2	E6S	50.5	—	—	b.m. CK
4	22.8	30	29.900	32.2	SSE	1.2	—	—	b ₁₀ .f
5	35	34	29.800	33.2	SE	74	—	—	o.v.m. KS
6	33.9	35	29.935	34.9	E $\frac{1}{2}$ S	79	—	—	o.v. KS
7	22.8	30	29.916	32.8	SE	23	—	—	b ₁₀ .m
8	34.2	29.8	29.878	31.2	SE6S	25	—	—	b.v.m. K. KS
9	39.6	38	29.812	39.6	S	260	0.154	0.477	o.v.m. q.v. KS. N
10	36.8	37.8	30.041	37	WSW	92	0.293	0.544	b.v.m. KS. CK
11	44	40	29.919	36.8	SSW	169	0.456	0.096	o.m. q.v.
12	39	41.5	29.770	43.2	W	168	0.545	0.232	b.v. KS. K. CK
13	31.2	38	29.512	39.3	NNE	56	0.020	—	o.m.
14	34	37	29.553	37.9	NE	120.5	0.059	0.057	o.m. S. q
15	35.8	36.2	29.950	31.2	E6N	285.5	0.030	0.013	b.v.m. q K wind very unsteady
16	32	34.8	30.128	33.3	NE	130.5	0.038	—	b ₁₀ .v.m. a few specks of K
17	37.8	36.1	30.134	30.2	NE	41.5	0.016	—	o.v.h. KS
18	35.9	36.3	29.965	37.8	SE6S	87.5	—	—	o.v.h. KS. CS
19	41.5	39.7	29.804	35.9	S	179.5	0.045	0.070	o.v.h. q.v. KS. N
20	46.9	41.8	30.041	41.2	SW	98.5	0.068	0.012	o.v.m. KS
21	46.	44	30.168	47.2	SW6S	180.5	0.002	—	b.v. q. KS. CS
22	41.9	42.3	30.111	46.9	SW6S	180.5	0.010	—	o.v.m. KS
23	45.9	43.5	29.774	48.2	S	161	—	—	a.v.h. q. KS. CS
24	50.1	48	29.324	44.2	S	300	0.010	0.040	b.v. q. KS. DS. K,
25	51.1	48.1	29.280	50.3	SW6S	212	0.048	0.364	b.v. q. KS. K
26	47.2	46	29.905	49.7	SW	177.5	0.322	0.109	o.v. h. q. KS
27	46.2	46.5	29.721	46.2	SSW	85.5	0.010	0.082	o.v.h. CS. KS
28	49.8	48.2	29.796	48.2	S $\frac{1}{2}$ W	192	0.056	0.100	o.v. h. KS
29	46.9	45.8	29.739	49.8	S	235.6	0.060	—	b ₁₀ .v. q. KS. CS carry very fast from SW
30	49.7	48.5	29.598	47.2	S6W	222	0.069	0.162	o.m. q.v.
31	52.6	50.5	29.518	50.1	S	253	0.128	0.058	o.v. q. KS
	39.62	39.83	29.825	52.6			0.016	2.710	
				57.2			1.999		

1861	10 p.m.			Wind		Man		Mer	
Jan'y	E	A	Bar	Hgt	Dir	Ther	Man		
1	32.2	36	29.792	32.8 30.9	N	84.5	36.5	30.6	6. v. KS, CS
2	31.8	35	30.085	32.1 31	N $\frac{1}{2}$ E	25.5	35.7	28	0.9
3	25.5	33	29.996	26 25.8	SS E	33.5	31.3	26.5	4 m round horizon
4	34.2	33	29.777	34.2 32	SE	47	36	20	0.9
5	35.1	34.2	29.877	35.2 33.5	SE S	66	37	31	0.9
6	25.7	32	29.900	25.7	E S	86	31.2	25	6. v. trace of Aurora NW
7	25.9	32	29.955	26 23.7	SE $\frac{1}{2}$ E	46.5	30.2	20.8	6. v.
8	39.5	37	29.752	39.5 39.5	S	242.5	41	19.5	0.9. r. q
9	38.9	38	29.865	39.1 38.5	SE W	199.5	41	36	0.9
10	37.8	38.5	30.008	37.9 37.2	S $\frac{1}{2}$ W	163	39.8	34	0.9
11	44.7	42.5	29.772	45 44.8	SE W	233	48	37.5	0.9. KS
12	33.2	40	29.598	33.5 33.1	SW	122	39.5	33.5	6. v. KS slight Aurora
13	33.1	37.3	29.450	33.2	N	58	35.2	31	0.9
14	34.5	37	29.743	34.9 34.1	NE	176.5	37.3	33	6.9. KS clear in zenith
15	31.2	35.5	30.072	31.9 28.5	NE	192.5	35	31	6. v. KS
16	35.2	36	30.137	35.3 35	NE	71	37	30	0.9
17	36.2	36.5	30.060	36.5 35.1	SE $\frac{1}{2}$ S	46.7	39	34	0.9
18	39.7	38.2	29.832	39.2 39.1	S	199.3	41.2	34	0. v. q. KS
19	44.8	40.6	29.865	45.1 45	SW	145.5	—	39	0. v. h. KS
20	47.4	43.5	30.153	47.9 47.0	SW S	143.5	49.5	43	0. v. q. KS
21	44	44	30.151	44.5 43	SW	192.5	48	44	0. v. KS
22	44.3	43	29.946	44.9 42.9	SSW	127	46	41	0. v. KS
23	47.4	45.2	29.628	47.9 46.2	SE E	232	49.4	43.5	0. v. KS. q
24	46	46	29.497	46.1 45.4	SW	257.3	52	43.5	0. v. r. KS. N
25	47	48	29.449	47.6 45.9	SW	316.5	52.1	44	0. v. KS
26	46.2	46.9	29.837	46.7 46.7	SE W	184.5	49.3	42	0. v. KS
27	48.5	48	29.750	48.9 47.5	S	196.5	52.1	45	0. v. q. C. S, KS
28	45	47	29.800	45.2 42.2	S	206.5	51.9	44.5	6. v. KS. CS. even the deep has a film of CS, but I see the stars
29	47.8	48.2	29.613	48 47.2	SE E	254	52	43.5	0.9. r.
30	51.2	50	29.517	51.9 50.9	S $\frac{1}{2}$ W	274	53.2	47.5	0.9. q
31	47.1	49.5	29.548	47.5 46	S	241	54.1	47	6. v. q. Bright Auroral arch NW with slight streamers
	39.39	40.50	29.820				42.68	35.56	
							40.77 42.7	35.6	

1861		10 Am.				Wind		Rain		
February		E	A	Bar:	Hygr	Dir:	Miles	Squan	Globe	
♀	1	46.7	48.	29.614	47.2	SSW	249.5	0.003	0.019	b. y. q. KS. N in SW
	2	40.5	42	30.385	40.5	SW $\frac{1}{2}$ S	135.3	0.016	0.035	o. v. h. q. CS. KS
⊙	3	45	44.5	30.095	38.5	SW $\frac{1}{2}$ W	211	0.002	—	o. v. KS
	4	43.5	44	29.508	43.5	W $\frac{1}{2}$ S	317	0.030	0.095	b. v. q. KS. CS
	5	45.5	45	28.941	45.2	S $\frac{1}{2}$ W	206.5	0.086	0.230	o. v. m. r. q. KS. N. in SW
	6	41.8	42.8	28.685	41.8	SSW	302.5	0.187	0.118	b. v. q. K. CK. Bar heavy
	7	39.8	40.8	29.107	39.5	SW $\frac{1}{2}$ W	146	0.023	0.062	b. v. K. KS
	8	35.5	39.5	29.497	37.9	NW $\frac{1}{2}$ N	14	0.006	—	o. m. KS. CS fine halo
	9	37.0	38.8	29.819	35.1	NNW	230	0.025	—	b. v. q. KS. CS. Halo
⊙	10	35.9	36.8	30.274	33.8	NE $\frac{1}{2}$ N	161.5	—	—	b. v. m. CK. Bar heavy
	11	31.2	35.2	29.962	32.5	NE $\frac{1}{2}$ N	14.5	—	—	b. v. m. CK. CK. Bar heavy
	12	27.9	34.	29.472	31.2	NE	65.5	—	—	b. m. CK
	13	32.	34.6	29.46	28.4	NE $\frac{1}{2}$ N	35.	—	—	b. m. CK. K
	14	40.4	38.4	29.653	31.5	SE $\frac{1}{2}$ S	162.	—	—	b. v. m. CK
	15	44.5	39.8	29.213	29.9	S $\frac{1}{2}$ E	146.	0.042	0.031	o. v. m. KS. CS.
	16	43.	41.1	29.290	40.7	S $\frac{1}{2}$ W	70	0.062	0.005	b. v. h. q. CS. KS
⊙	17	47.9	45	29.261	43.4	SE	233.5	0.006	0.056	o. v. m. KS. CS. Bar heavy
	18	45.2	45	29.286	48.3	S $\frac{1}{2}$ W	284.5	0.037	—	b. v. q. KS. CS. Bar heavy
	19	44.2	44.2	28.736	26	SE $\frac{1}{2}$ S	276.5	0.015	0.225	o. v. m. r. q. KS. N. Bar heavy
	20	42	43	28.863	22.3	ESE	360	0.017	0.481	o. m. r. q. KS. Heavy gale.
	21	42.8	42.8	28.841	44.5	SSW	247.5	0.339	0.072	o. v. h. q. CS. KS. Halo, Bar heavy
	22	45.1	43	29.105	39.8	SW	258.5	0.072	0.497	b. v. q. CS. KS. K
	23	41.1	42.5	29.473	43.1	SW $\frac{1}{2}$ W	84	0.368	0.101	b. v. h. K. CK. S
⊙	24	42.7	42.7	29.960	40.9	NNW	97	0.435	0.017	b. v. K. KS
	25	43.7	41	30.033	37.9	W $\frac{1}{2}$ S	26.5	0.038	—	o. m. CS blue visible through film
	26	44.2	43	29.876	43.2	S. l. W	176	0.017	0.008	o. v. m. q. KS
	27	46.7	45	29.478	44.5	S $\frac{1}{2}$ W	234.5	0.000	—	o. v. q. KS Bar heavy
	28	43.4	41.8	29.488	43.4	SW $\frac{1}{2}$ W	171.5	0.048	0.192	b. v. q. KS. K
		41.26	41.58	29.498	41.1			1.720	2.204	
		41.40								

February	E	A	Bar:	Wgt.	Dir	Miles	Max T	Min. T	
1	34.2	45	30.270	³⁵ 34.2	WSW	164.7	40.7	35.5	6 ₁₀ . V / diffused Aurora
2	42.8	44.5	30.271	^{43.2} 41.8	SW $\frac{1}{2}$ S	196.0	46.	34	o.g.
3	41.7	44	29.708	⁴² 39.4	SSW	249.5	46.5	41.5	6 ₁₀ . V. / g. g. KS
4	40	44	29.423	^{40.4} 39	SW	150	45.	40	o.g.
5	42.7	45.6	28.733	^{42.2} 41.2	S6W	273	47.	40	6 ₁₀ . V. g. Faint Aurora NW + NE
6	36.3	41.5	28.910	^{36.7} 34.5	SW $\frac{1}{2}$ S	287	40.	36.5	6 ₁₀ . V. KS in North near Hor
7	33.5	41.5	29.330	^{33.9} 33.2	W6S	72.5	38.	34	6 ₁₀ . V. KS Faint aurora
8	36	40	29.569	^{36.2} 34.3	N	111.5	40.3	32	6 ₁₀ . V. KS than visible in zenith
9	34.9	37.3	30.124	³⁵ 30.9	NE6W	234	38.5	34.5	o.g.
10	28.3	37.5	30.187	^{28.7} 27.7	SE6S	91.5	38.	29	6 ₁₀ . V. g. Bright Aurora in NNW
11	32.	37.	29.708	^{32.4} 32.2	NE6E	95.	35.	25.5	6 ₁₀ . V. S. K. arch low down streamer.
12	29.5	35.2	29.356	^{29.5} 28.2	E $\frac{1}{2}$ N	47.	34.5	24.	o.g. slight snow
13	32.9	37.	29.739	³³ 32.7	SW6S	99.	36.8	26.	6 ₁₀ . V. KS. some aurora
14	41.3	40	29.356	^{41.2} 40.2	SSW	187.	43	30	6 ₁₀ . V. S. (probably a meteor descending blue light from cloud to horizon about 10° - twice as large as 14)
15	41.6	41.5	29.114	⁴² 41.7	S	139	45	39	o.g. g. KS
16	48	45	29.240	^{48.4} 46.9	S6E	213	50	38	o.v. d. KS
17	45.6	45	29.155	⁴⁶ 43	SE6E	282.5	49	45.5	o.v. g. KS. CS
18	42.3	45.2	29.213	^{42.7} 41.7	E $\frac{1}{2}$ N	252	46.2	41.5	o.v. g. KS. CS
19	41	43	29.165	^{41.3} 39.5	S $\frac{1}{2}$ E	185	43.2	39	o.v. CS. KS At 10 ^h 15 ^m Aurora?
20	43.7	45	28.812	^{44.2} 42.2	S $\frac{1}{2}$ W	231.5	46.5	41	o.v. g. KS
21	37.8	42	28.797	³⁸ 37.8	SSW	124.5	49.7	35.5	o.v. g. KS. Halo round about 9"
22	40.9	43.5	29.325	^{41.1} 39.6	SSW	220.5	44	37.5	o.v. KS
23	41.1	44	29.721	^{41.1} 39.9	NW	79	45.2	34.5	o.v. r. KS. N in WNW
24	34.7	42.5	30.070	^{34.2} 32.2	SW $\frac{1}{2}$ S	65.5	39.5	34.5	6 ₁₀ . V. m. There may be a sheet of CS
25	40.1	43.2	29.866	^{40.4} 38.4	S	163	44.5	32	o.v. g. KS. CS
26	44	44.7	29.766	^{44.4} 43.2	SSW	150.5	48.2	39.5	o.v. g. KS
27	37.8	43.8	29.450	³⁸ 36.5	SSW	199	43	38	6 ₁₀ . V. Aurora, bright
28	38.3	43	29.368	^{38.7} 37.5	S	188	44.2	35	6 ₁₀ . V. Bright Aurora, top of arch NW
							43.1	35.5	
	38.68	42.20	29.491				42.91	35.47	
							41.00		

1861	10 th AM			Wind			Rain		
March	E	A	Bar	Hyg	Dir	Miles	square Doubles	Round	
1	40.9	41.5	29.168	40.8 39.8	SW	223.5	0.182 0.285	0.354	4. v. q. KS. K
2	40.2	40	29.524	40.3 38.5	SW	159	0.018 0.055	0.068	0. v. m. I cannot name the low for the day is uniformly even
3	42.1	43	29.491	42.2 39.7	W	216	0.458 0.744	0.019	0. v. r. KS. N in north east
4	41.7	42	29.935	41.7 38.7	WNW	144.5	0.100 0.190	0.172	4. v. K. C
5	48.1	44.5	29.662	48.2 47.3	SW	253.5	0.019 0.049	0.129	0. v. m. d. q. KS
6	50.7	47.	29.101	48.9 48.9	SW	397.	0.006 0.062	0.199	0 v q KS
7	45.3	43	29.864	45 42	SW & W	161	0.033 0.105	0.217	0. v. h. CS. KS
8	50	47.1	29.676	50.2 44.8	W	264	0.022	lost	4. v. q. KS. K
9	45.9	44	30.165	45.5 43.	SW	223			4. v. h. CK. S
10	44.8	46.5	29.610	44.2 42.2	W & S	257.5	0.049	0.074	4. v. h. d. q. KS
11	36	42	29.050	37 34.9	W	201	0.235	0.345	0. v. s. KS. N in west
12	42.7	42	29.250	43 40.5	NW	187	0.403	0.475	4. v. m. r. N. KS
13	44.8	42	29.875	45 41.4	NW & W	103	0.082	0.109	4. v. KS
14	49.2	45	29.868	49.2 46.2	SW	178	0.007	0.011	4. v. h. KS. K Halo @ at 2 PM
15	44.7	44	29.912	44.5 40	W	179	0.137	0.213	4. v. K. KS
16	38.3	43	29.650	38.5 37.7	W	218	0.140	0.170	4. v. KS. CS at 9 am is shown of snow
17	39.9	42	29.033	39.2 37.8	SW	289.5	0.254	0.477	0. v. r. q. KS. CS. N a heavy gale
18	41.5	41.5	29.161	41.5 37.9	W	176.5	0.028	0.072	4. v. h. C. CS. KS Halo
19	44.2	42.5	28.804	44.6 41.7	W & N	194.	0.117	0.055	4. v. q. KS
20	43.9	42.8	28.964	43.9 43.7	SW	219	0.130	0.302	0. v. m. r. q. KS. N. Bar heavy
21	34.8	38.8	28.975	33.8 32.2	W & S	189	0.320	0.354	0. m. S. KS Thick snow in night
22	46.1	41	29.493	45.9 42.3	WSW	164	0.035	0.064	4. v. KS. CS
23	52.9	46	29.412	53 49.8	SW	217.5	0.016	0.060	4. v. d. q. KS. CS
24	47.2	43	29.623	46.8 43.8	SW & W	118			4. v. C. CS. CK. K.
25	44.7	42.8	29.650	44.8 41.2	S	106.5			4. v. H. KS. CS. C Halo this morning seen from cloud
26	47.8	45	29.180	48 44.3	S	225.5	0.097	0.104	4. v. q. KS. K
27	45.8	43	29.184	45.4 42.8	SW	207.5	0.138	0.174	0. v. KS
28	43.6	43.8	29.308	43 41.9	W & N	0	0.016	0.017	4. v. h. KS. K. CK
29	47.1	44	29.408	47.1 43.2	SW & W	124	0.257	0.198	4. v. q. KS. K Halo
30	41.2	41.1	29.249	40.2 39.2	W	17.5	0.132	0.164	4. v. K. S. C.
31	44.4	43.1	29.514	43.8 41.9	NE & N	70	0.042	0.044	4. v. KS. K
	44.21	43.22	29.431				4.147	5.740	

1861	10 th PM			Wind			T	T	
March	E	A	Bar	Hys	Dir	Miles	Man	Min	
1	38.5	41.5	29.410	38.9 37.7	W.6.S	168.5	40.8	37	0.9. KS. I suspect strong Aurora behind the cloud
2	48.1	44.2	29.104	48.2 47.9	WSW	223	49.2	34	0.9. q.d
3	36.4	42.2	29.674	36.9 36.2	WSW	144	40.3	36	0.9. KS
4	40.	43	29.975	40.2 38.5	SSE	108	42.2	33.5	0.9. KS.
5	47.9	47	29.500	48.5 48.5	SW	301	52	39.5	6. V. q. KS. a very heavy gale Aurora behind the cloud
6	40.1	44.5	29.450	40.1 38.8	W	337	46.5	40.5	6. V. q. q. Not West Aurora, KS, Monday at 11 PM
7	49.9	46	29.564	50.2 48.7	WSW	257	51.3	37	0.9. q. q. A hard gale Bar heaving
8	39.7	45.8	29.986	39.9 38.2	W $\frac{1}{2}$ S	225	44	40	6. V
9	47	47	29.817	47.4 46.3	SSW	178	49.1	37	0. V. KS
10	37	44	29.220	37.2	WSW	243.5	42	36.5	0.9. r. q. I suspect Aurora in NW
11	37.7	41.5	29.237	37.9 36.7	WSW	136	40.9	31.5	0.9. r.
12	38.8	42.8	29.427	39.3 37.1	NW6W	213	43.2	36.8	6. V. KS
13	40.2	44.2	29.976	40.8 38.5	SW6S	91	43.2	35.5	6. V. KS. faint Aurora. New cups to streamer
14	44	46	29.696	44.2 42.7	SW	275	48	39.5	0. d. KS bright in NW, from Aurora?
15	41.7	44.5	29.728	42 39.3	SSW	179	45.2	38.5	0.9. q
16	35	42	29.684	35.2 34.2	SSW	173	40	35	6. V. KS in south
17	36.5	42	29.098	36.2 33.8	W $\frac{1}{2}$ S	272	40.7	34	6. V. KS to south hor, but elect falling
18	40	42	28.893	40.2 40.2	SSW	158	42	34	0. V. d. KS
19	37.3	42.5	29.331	37.9 36.4	W $\frac{1}{2}$ S	195.5	41.5	33.8	6. V
20	33.8	39.5	28.923	34 32.9	SW $\frac{1}{2}$ S	186	37	32	0. V. q. KS Snow at intervals in the day
21	36	40.2	29.169	36.2 34.4	W $\frac{1}{2}$ S	225.5	41	31	6. V. q. KS round horizon
22	47.7	44.5	29.400	48 47.7	SW6S	192	50	35	0. V. d. KS
23	40	45	29.564	40.7 38.8	SW	122	49.2	41	0. V. CS. KS
24	38	46	29.764	38.4 38	WSW	127.5	44	36.5	6. V.
25	43.7	45.2	29.291	44 43	SSW	302.5	47	35	0. V. q. d. KS
26	39.9	44.8	29.131	40.1 38.8	SW	229.	48.2	39.5	6. V. Aurora streamer conspicuous even in the bright moonlight
27	40.8	46	29.230	41 40.3	SW	73.5	45.5	37.5	6. V. KS. CS
28	41	45	29.432	41.5 40.2	W	32	45	37	0. V. KS
29	38	43.5	29.239	38.2 37.4	SW $\frac{1}{2}$ W	222.5	49	37	0.8
30	38.2	45.6	29.384	38.5 36.9	SE	89	45.2	31	6. V. S
31	40.7	43.8	29.550	41 39.2	NE	199	46	35	0.9. sleet
	40.43	43.93	29.447				44.82	36.04	
							42.91 44.7	36.0	

1861	10 th A.M.				Wind		Rain		
April	E	A	Bar	Hyg	Dir	Miles	Sy	Round	
1	46	43.8	29.682	46.2 43.8	NE	120	0.290	0.268	o. v. KS
2	45.8	44.5	29.558	45.9 44.4	NE	124.5	0.392	0.381	o. m. KS
3	43.8	44	29.613	43.5 41.8	NE & N	167.5	0.124	0.147	b. h. KS. C. CS
4	41.2	44.2	29.641	41.5 40.6	N & W	71	0.025	0.023	o. r
5	45.8	43.2	29.778	45.6 42.7	NE & N	14.5	0.004	0.003	b. v. h. KS K
6	48.5	43.5	29.917	48.1 45	E & S	21.5	—	—	b. v. h. C. K faint huls
7	44.9	46	30.016	45.2 41.8	E & S	147	—	—	o. v. h. KS. K
8	46.3	46	30.175	46.7 45.7	SE	118	0.708	0.092	o. m. KS
9	50.2	46.5	30.250	50.2 46.6	S & E	166	—	—	o. v. h. CK. KS
10	49.7	46	30.210	49.7 46	SSW	155	Trace	—	o. v. q. KS
11	55.1	48.5	30.291	54.8 49.7	SSW	49	0.004	0.005	o. v. KS
12	54	47.8	30.311	54.1 46.7	WNW	22	—	—	b. v. C. K.
13	45.8	48	30.239	46.3 45.8	N & E	84	—	—	o. m
14	46	47.8	30.163	46.3 45.7	NE & N	52	—	—	o. m
15	48.7	49	30.192	48.8 47.7	NE	27	—	—	b. v. m. K.
16	46.1	49	30.281	46.7 44.5	SE	35.5	a few drops	—	o. m
17	51.8	48.8	30.120	51.8 48	E	64	—	—	b. v. h. K.
18	56.3	52	29.949	55.5 51.6	NE	104	—	—	b. v. m. C. S. K Halo
19	54.2	54	30.038	54.4 50.4	NE	61	—	—	b. m.
20	52.8	51	30.115	52.2 47.2	ESE	47	—	—	b. v. m. K. KS.
21	49.7	51	29.874	50.8 46.8	NNW	93	—	—	o. v. KS
22	49.7	49	29.783	49.7 47.3	W	40	—	—	o. v. H. S.
23	48.5	48.5	29.856	48.5	N. b. W	51.5	0.040	0.005	o. v. H. S. Square on roof = 0.009
24	52.5	50.6	29.915	52.6 47.2	NNW	46.2	—	—	b. yr. K. CK.
25	54.8	52.2	29.934	55.1 48.8	W	75.6	—	—	b. yr. K. CK. KS.
26	50.2	52	29.990	50.5 46.6	N	47.1	—	—	b. v. v. H. S. C.
27	42	48	30.000	42.5 39.7	E & N	117.5	0.165	0.145	o. v. H. S. Sq ² on roof = 0.171
28	46.5	47.3	29.975	46.8 46	N. W	46.5	—	—	b. v. r
29	51	48	30.037	50.2 47.2	W	29	—	—	b. v. H. S.
30	51.3	48.8	30.128	51.2 47.8	W	38	—	—	o. v. KS. K
	48.97	47.93	30.002				1.072	1.069	

1861

10th

PM

Hyg

Wind

Thermometer

April

F.

A

Bar

Dir

miles

Max

Min

1	43.2	45.1	29.570	43.6 42.2	N	97.5	49.3	39.5	0.8,
2	42.5	45	29.476	42.1 42	N6E	187.5	49.8	42	0.9
3	39.3	46	29.681	39.7 39.2	N	49	48	39.5	6. L. K
4	39.8	45	29.713	40.4 39.7	N6W	95.5	49.2	39.8	6. S KS
5	39.5	46.5	29.853	39.8 39.2	S. W	47.5	48.7	35	6. V. Diffuse Aurora Cyp. still
6	45.2	46.5	29.958	45.9 42.9	E6S	147	53	34.5	0.9
7	44	46.5	30.0	44.3 43.2	E6S	165.5	49	43	0.9
8	44	46.2	30.245	44.2 41.8	SE6S	148.5	49.1	43	0.9
9	43	46.1	30.212	43.5 41.2	S. E	264	48	42	0.9. 9
10	49	48.2	30.238	49.5 46.2	WSW	145.5	55.5	40.8	0.9
11	46.7	49.8	30.289	47.3 45.7	S6W	65.5	58.4	47	6. V. KS. K Aurora slight
12	45.4	51.5	30.268	45.6 44.9	N6E	43	58.5	40.5	6. V
13	41.6	49.5	30.179	42.7 42	NE	73	55.2	41.5	0. m
14	44.8	51	30.148	45.4 45.4	N.6W	63	55.2	39	6. V
15	42	51.5	30.240	42.7 41.9	ENE	69.5	58.9	39	6. V. Auroral arch, bright
16	40.5	49.2	30.232	40.8 39.9	NNE	78	53.8	41	6. V.
17	38.2	52.5	29.984	38.7 38.3	E	222	59.5	36	6. V. S. K. CK
18	49.9	54	29.963	50.8 47.2	SE	97	62.2	43	6. v. m. CK, S. K
19	45.2	53.8	30.100	45.8 44.1	E6S	103.5	58.2	45.5	6. m, D & 4 alone visible
20	44	53	29.961	44.3 41.9	SSW	61	54.2	40	6. v. m. S.
21	43.8	50.2	29.881	44.4 41.8	N.6W	20	54.2	43	6. v. H. S
22	45.3	49.5	29.776	45.9 44.3	N. W.	70.5	49.5	40.5	0. r. v.
23	47.7	50.2	29.883	48.2 44.1	NW6N	92	51.3	39.7	0. Y. KS. S
24	49.5	53.1	29.929	50 47	WNW	84	57.6	47.1	0. Y. KS. S.
25	49	53	29.937	49.6 48.5	S. W	115.5	61	48.5	6. r. KS, at 10.45
26	42.2	51	29.988	43 42.8	26N	64.5	46.5	42	0. r.
27	37	47.3	30.010	38 35.7	N	52.5	41.5	38	6. v. c. s in North
28	40	49	30.012	40.8 40.6	W	79	45	35.5	6. v. H.
29	41.4	49.8	30.107	42.2 40.7	W6S	67	47.1	38.8	6. v.
30	45.7	49.8	30.150	46.2 45.3	W6N	39	51.5	38.6	0.9
							✓52.6	✓40.8	
	43.63	49.17	30.000				52.87	41.08	
	43.65						50.46		

1861	10 ^H . AM				Wind		Rain		
man	E	A	Bar	Hgt	Dir	Miles	Squn	Round	
1	54.4	49	30.177	54.7 48.2	WLN	45	0.044	0.020	6. v. KS. K. CK
2	56.9	52	30.151	56.9 53.7	W6N	48.5	---	---	6. v. KS. N in east
3	53.1	52.8	30.064	53.5 51	NW6W	89	---	---	0. v. KS
4	51.1	49.5	30.131	51.6 46.2	NE	30.5	---	---	6. v. KS. K
5	53.4	48.5	30.143	53 46	NW	41	---	---	6. v. K. S. CS. Halo
6	52.1	49.4	30.013	52.8 46.7	NW	23.5	---	---	6. v. K. K8
7	45.5	50.8	29.877	46.1 44	NE6N	37.5	trace	Do	0. m. d. K8
8	42.9	48.8	29.810	43.3 37.2	N $\frac{1}{2}$ E	67.5	trace	---	0. v. KS Fleet at 7 AM
9	44.4	46	29.598	44.2 39.7	NNW	50.5	trace	---	6. v. KS. K
10	48.1	44.9	29.640	47.7 40.7	NNW	30	---	---	6. v. K
11	49.9	47	29.650	49.9 43	NNE	38.5	---	---	6. v. K. KS
12	49.8	46	29.807	49.8 42.8	N6E	32	---	---	6. v. K. C
13	55.5	49.4	30.022	55.1 48.1	S	35.5	---	---	0. v. CS. K sky covered with CS, far below separate cumuli
14	61.9	51.8	30.168	61.4 54.2	W6S	39	0.012	0.005	6. v. KS. K
15	63.	54.	30.215	63.3 57.3	W $\frac{1}{2}$ S	40.5	---	---	0. v. KS.
16	63.6	53.3	30.135	63.6 58.2	W	50	---	---	6. v. CS
17	66.4	58.	30.059	66.3 58.8	NW	28	---	---	6. v. HS. H.
18	66.1	57.8	30.082	66.7 58.2	S. E	23.5	---	---	6. v. HS
19	59.4	57.	30.203	59.4 55.	WSW	7.5	---	---	0. m. sky covered with grey cloud
20	64.7	58.	30.279	65. 58.8	W6N	37.5	0.010	0.110	6. v. e. s. Halo @ at noon
21	66.	59.2	30.193	66.2 58.2	S. W	69.5	---	---	6. v. H. S
22	63.6	59.6	30.043	63.7 61.7	W	87	trace	---	0. v. H
23	53.5	59.	29.907	56.2 54.5	W	70.5	---	---	0. m. r
24	52.4	56.	29.863	52.8 48.4	WSW	62.	0.000	0.0050	0. v. H
25	59.7	53.5	29.311	60. 53.5	W6S	184	0.025	0.0080	0. v. H. e. s
26	58.8	53.5	29.532	58.8 51	SW6W	110	0.085	0.018	6. v. H. e. s
27	57.3	53.5	29.915	57.4 49.3	W	85	0.020	---	6. v. HS. CS
28	59.6	53.4	30.005	59.3 51.4	W6S	8.	---	---	6. v. H. e.
29	60.	56.	29.843	60.2 55.	S. W	57.	---	---	9. v. H. S.
30	58.7	56.2	29.866	58.3 51.2	WNW	19	0.077	0.044	0. v. H
31	56.2	56.4	29.703	56.3 53.2	S	59	0.063	0.033	0. r.
	56.32	53.11	29.948				0.626	0.360	= 0.063 = 0.044

1861	10 th P.M			Wind			Thermometer			
May	E	A	Bar	Hyg ²	Dir ²	Miles	Max	Min		
7	1	50.1	52.5	30.142	50.5 49.5	WSW	72.5	61.5	40.3	b. v. KS
	2	52.3	53.6	30.155	52.2 51.2	WLN	81.5	63.9	49.5	o. g. d
	3	43.7	52.2	30.056	43.9 41.9	NW	111	59.2	44.5	b. v. Y bright Aurora
	4	40	51.5	30.176	40.9 39.9	SW	73	56	38.	b. v. Y Aurora
0	5	44.2	53	30.091	44.2 43.3	N	49	63	36	b. v.
	6	44.8	52.5	29.955	45.1 43.4	N	61	60	38.2	b. v. KS. CS
	7	43.2	50	29.822	43.9 42.2	NELE	87	53.1	43	o. g. KS?
	8	39.6	48	29.711	39.6 37.9	NW	68.5	51	39.5	o. v. KS
	9	35.1	48	29.647	35.2 32.5	N	60.5	53	31.5	b. v. Aurora
	10	37.5	48.2	29.677	37.7 35	N	75	54	31.3	b. v.
	11	42	48.8	29.697	42.2 38	NNE	108	54.5	35	b. v. K.S
0	12	41.2	50	29.977	41.8 39.8	E	92.5	57.2	35	b. v.
	13	51	51	30.012	51.5 49.5	SSW	188	58.1	35.5	o. v. KS,
	14	49.3	54	30.210	50.3 50	S by W	50.5	67.7	49.5	b. v. at 11.20
	15	54.7	56	30.193	54.5 53.3	S.W	54.	69.3	48.	10 ^h b. v. H. C.S. 10.25
	16	63.	58 ⁰	30.100	63 57	NW by N	36	74.	54.5	b. v. KS, at 6 ^h , came at 11. but could not get in
	17	51.5	60	30.091	52.6 50.5	S	140.5	69	52.5	b. v. H.S. in north
	18	52.5	59.4	30.122	53.1 49.5	SW by S	47.3	69	49.5	10. m. H.S.
0	19	54.8	60.	30.250	55.3 53.5	W by S	40.5	71.	50.5	o. v. H. C.S. Thunder & rain at 4 ^h halo round
	20	55.7	63	30.289	56.8 53.1	W	38.5	72	49.5	b. m. CS
	21	56.8	60.2	30.119	56.6 56.2	W	35.	67	49.5	o. v. H
	22	55.	61.	30.025	56.1 55	W by S	57.5	69.3	56.5	b. v. H.S. H
	23	47.6	56.5	29.923	48.2 45.8	W by S	70.5	62.	48.	b. v. H.S. at 11 ^h
	24	51.4	56.	29.572	52.1 47.3	S.W	113	62.	48.5	o. v. one uniform cloud
	25	48.8	56.7	29.380	48.6 44.6	SW by W	127	65.	48.3	b. v. H. H.S. CS
0	26	46.6	56.	29.722	47.3 45.3	W by S	119.5	62.	45.	b. v. H in NE -
	27	48.9	57.	30.057	48.7 45.4	NW by W	51.5	64.	43	b. v. at 9.15
	28	49.6	58.5	29.929	50.8 48.2	NW	41.5	67	40.5	o. v.
	29	56.6	58.	29.800	56.2 56.6	S.W	78.5	63.	45	o. v.
	30	54.7	58	29.842	55.3 52.3	W by N	22	62	50.5	o. v. H.S
	31	51.3	57	29.651	52.1 50.6	W	64.5	62.5	52.5	b. v. H.S
		48.73	54.47	29.949				62.65	44.38	
		48.82						60.74	44.4	

1861		10^h A.M.				Wind		Rain		
June	E	A	Bar	Hg ^r .	Direct	Miles	Square	Round		
1	56.5	56.3	29.690	56.6 51.1	W	65	0.410	0.197	L.V. H. CS	<i>on Roof</i> $\square = 0.372$
2	52.3	55	29.829	53.1 49.5	N	70	0.160	0.083	L.V. H.	$\square = 0.105$
3	54.4	54	30.023	55.1 49.1	N.W	58.5	---	---	L.V. H. HS	
4	57.7	54.7	30.007	58.7 58.7	N.E	12	0.035	0.010	L.m. H.	$\square = 0.102$
5	62.1	56.3	29.900	61.6 56.1	N.W	35.5	---	---	O.V. H. HS	
6	56.2	55.	30.050	56.7 53.6	N	58.5	---	---	L.V. g. H. h	$\frac{59}{51}$ — O halo at noon
7	61.7	56.2	29.960	61.7 56.1	N	30.5	---	---	L.V. K. KS	
8	57	57.5	29.873	57.5 53	N.E	36.5	---	---	O.V. KS	
9	57.2	57	29.596	57.2 52.1	S	53.5	0.424 0.459	0.312	L.V. KS.K	
10	59.4	55.7	29.627	59.2 56.2	S.W.S	12.5	---	---	O.m. HS. H	<i>cleaned some of the paint off the globe page</i>
11	57.3	57.5	29.674	57.2 55.2	S.E	78	0.082 0.085	0.080	O.V. n.g. KS. N	
12	64.4	59.6	29.677	65.8 62.8	S.W.W	151.5	0.226 0.295	0.293	O.V. g. H.	
13	65.8	60.4	29.919	66.3 63.3	S.E	158.5	0.216 0.353	0.023	O.V. g. H.S	
14	69.4	61,	29.951	70. 65	E	101	---	---	L.m. CS - g	
15	69.3	63,	29.959	69.3 62.5	N.E.E	159	---	---	L.m. haze c.s. g	
16	65.2	63	29.985	66.3 61.2	N.E.E	87	---	---	L.m. CS	
17	61.3	62	29.939	63.6 57.2	N.E.E	88.5	---	---	L.v. a little haze	
18	68.2	63.8	29.916	68.8 65.1	S.E	110*	0.091 0.006	0.004	L.m. HS * from 4. P.M	
19	73.3	64.5	29.859	73.8 64.5	S.W.W	26	---	---	L.V. H. CS	
20	66.3	64.2	29.764	67.2 62.5	S.E	34.5	---	---	O.m. HS	
21	69.7	64.8	29.787	70.3 62.3	S	66.	0.054 0.062	0.043	L.V. H. CS	
22	65.3	65.2	29.713	65.8 61.8	S.E.E	34.5	0.053 0.060	0.053	L.V. HS. n	
23	57.2	63,	29.559	57.3 52.5	W	15.5	0.665 0.760	0.560	O.m. rain	<i>wet bulb 0.2 higher</i>
24	63.6	63.5	29.625	63.6 58.2	W	32,	0.135	0.117	O.V. H. HS	$\square = 0.152$
25	60,	63.4	29.445	63.5 57	S.E	90.5	0.640	0.530	O.m. rain	(0.640) = 0.547
26	61.5	61.	29.455	62 57.8	N.E	97.5	1.290	1.135	L.V. H. HS, n,	= 1.110
27	62,	61.	29.704	62.4 59.	N.W.N	26	---	---	O.m. H	
28	64.3	61	29.658	64.6 61.3	S.W	54	---	---	O.m. H	
29	58,	60,	29.770	58.5 52.2	W.L.N	68.5	0.305	0.255	L.V. H. HS g	= 0.266
30	62.5	58,	30.019	62.5 55.	N.W	52.5	---	---	L.V. H. CS	
	61.97	59.92	29.798				4.727	3.233		
								3.725		

1861	10 ^h P.M				Wind		Thermomete			
June	E	A	Bar	Hg ⁹	Direct ^h	Miles	Max	Min		
2	1	51.4	56.	29.656	51.7	N.W.	112	60.	50.	0. V. 12. 12 S
3	2	48.	54.	29.986	48.2	NNW	82	56	48	6. V. 12
4	3	51.3	55.3	30.039	51.7	N	40.5	59	46	0. m. 12
5	4	54.7	57.	29.906	53.7	SW	18.5	65	49.5	0. m. 12
6	5	49.2	55.2	30.039	49.7	N	58.	63	50.	0. m. 12
7	6	47.7	46.2	30.039	47.2	N	83	62.2	47.	6. V. S
8	7	53.2	59.2	29.906	53.2	N6E	61.5	68.2	49	6. V. KS Wind unsteady in direction
9	8	48.6	58	29.700	48.2	N	44	65	50	6. V. K.S
10	9	49.8	57.8	29.600	50.8	SE6S	105	62	49	6. V. S. K. CK
11	10	51.1	58	29.700	52.1	SWW	37	64.2	48.8	6. V. KS. CS
12	11	58.3	59.	29.521	58.4	SW	206	63.7	50.	0. V. 12. g. n
13	12	59.6	61	29.718	60.8	S	171.5	69	58.5	6. V. g. 12 S,
14	13	62.3	62	29.972	62.3	S. E	150.5	69.5	59.	6. V. 12 S
15	14	64.1	65	29.955	64.3	N26E	155.5	76.3	55.	6. m. 12. haze
16	15	59.7	65.8	29.956	61.3	N2	126.	74	56.5	6. m.
17	16	60.4	66.	29.957	62.5	E6S	114.	72.2	55.	6. V. 12
18	17	57.7	66	29.920	62.5	E6S	70*	69.7	52.5	6. V. * Cord broke at 4 P.M.
19	18	61.6	65.8	29.893	62.6	S2E	62.5	72.4	53.	0. m. 12 S
20	19	62.3	66.5	29.820	63.5	S2E	96.5	74.4	57.	6. V. 12. CS
21	20	59.	64.6	29.765	60.2	S. E	70.	70.4	57.5	0. m. 12. n
22	21	61.	67.	29.784	62.2	SW	72	74.6	59.	6. V. 12 S. CS
23	22	60.7	67.5	29.637	66.6	W	50	73.3	58	0. V. 12 S. Thunder at 8 P.M. N2
24	23	57.6	64.8	29.570	67.7	N	12	69.5	56.	0. m. 12 cups still.
25	24	58.8	64.6	29.537	67.3	S	64.5	70.3	55	0. m. 12. n
26	25	54.7	61.5	29.261	65.2	S	68.5	63.6	55	0. m. rain
27	26	56.3	62.8	29.604	64.6	N	67	68.	52.5	6. V. 12. CS
28	27	60.3	64.	29.779	61.4	NNW	41	70.	54.	0. V. 12 S.
29	28	55.	61.6	29.565	65.5	W	78.5	67.	51.5	6. V. 12. 12 S g
30	29	51.3	60.5	29.929	62.2	NW	84.	64.2	53.	6. V. 12
	30	54.4	62.	30.080	63.4	W	68	68.2	48.	6. m. 12 a magnificent Comet in N.W
		56.02	56.16	29.793				67.49	52.78	
								65.58	52.8	

1861	10 A.M.				Wind		Rain		
July	E	A	Bar	Hg ²	Direct	Miles	Square	Round	
1	61.2	61	29.947	66.5 61.6	SWbW	75.5	---	---	0. V. H. H. S
2	57.2	60.	29.854	57.6 54.7	N.W	74.5	0.070	0.058	0. m. r. $\square = 0.037$
3	63.4	60.2	29.744	60.7 56.1	WbN	77.5	---	---	6. V. H. C
4	55.7	60.	29.033	56.7 54.6	SE	217	0.057	0.048	0. m. r $= 0.028$
5	63.8	59.6	28.923	64.7 58.6	S. E	157.5	0.415	0.477	6. V. H. H. S. C. n. g $= 0.308$
6	63.6	61.	29.227	64.3 59.5	SEbS	54.5	---	---	6 m. South. V. n. H. H. S. n
7	66.4	61.	29.486	66.5 59.7	NW	9.	---	---	6. V. H. H. S. CS
8	65.2	61	29.611	65.5 58.5	N	14.	0.165	0.157	6. V. H. $= 0.168$
9	62.8	61.	29.770	62.3 57.7	W	40.	---	---	0. V. H. H. S. CS
10	60.2	59.2	29.719	60.6 54.5	W	90.	0.031	0.030	0. V. K. K. S
11	50.9	56.3	29.603	61.2 49.8	SW	73.5	0.112	0.130	0. V. Rain: n. $\left\{ \begin{array}{l} 2 \text{ days} \\ = 120 \end{array} \right.$
12	59.4	57.4	29.427	59.8 55.1	N. N. W	92.5	0.330	1.331	6. V. K. CK $= 1.288$
13	60.6	58.2	29.481	61.4 58.9	N. S. E	44.	---	---	0. m. K. K. S.
14	58.9	58.3	29.503	59.4 57.5	N	100.4	0.300	0.375	0. V. K. K. S. $= 0.348$
15	65.	59.	29.463	65.1 61.7	SBW	19.8	0.070	0.096	0. V. K. S. S $= 0.080$
16	59.8	59	29.190	60.1 55.1	WSW	57	0.0012 0.004	0.005	6. V. K. S. K
17	56.4	58	29.164	56.8 55.3	SWbS	122.5	0.005	0.008	0. m. d. K. S. N
18	61	57	29.295	61.3 54.3	WbS	111	0.128	0.142	6. V. g. K. S. CS. N in NNE with rain then
19	62.1	56.8	29.391	62.4 52.3	SWbW	81.5	0.053	0.059	6. V. K. K. S.
20	62.4	58	29.472	62.2 58.2	SWbW	49	0.012	0.019	6. V. K. K. S
21	64.8	59	29.499	65.3 57.3	SE	32	1 in	2 in	6. V. K. S. K. CS
22	63.6	58.8	29.438	63.8 58.8	SW	34	---	---	6. V. K. K. S. C. CS
23	59.8	59.5	29.260	60.2 56.7	NWbW	66.5	0.605	0.685	0. V. H. H. S $\square$ catch left open
24	60.2	59.2	29.450	61.5 57.5	S	73.5	0.017	0.012	0. V. d. K. S
25	60.5	60-	29.224	61.7 58.7	SWbW	41	0.445	0.375	0 V K K S $\text{Sqn} = 0.415$
26	61.5	59.8	29.432	61.6 54.8	WbN	27	0.114	0.073	6. V. K. S. K
27	62	60	29.154	62.1 55.8	SSW	57.5	0.020	0.011	6. V. K. S.
28	62	58.9	29.607	62.1 58.2	WSW	61	---	---	6. V. K
29	58.4	58	29.660	59.4 55.6	SEbS	110.5	0.202	0.160	0. V. K. S
30	58.6	58	29.192	58.4 55.4	SWbW	263.5	0.506	0.522	6. V. K. S. N q. Bar heavy
31	56	58.5	29.650	56.4 55	WbS	109	0.077	0.108	0. V. N. K. S
	60.66	59.09	29.481				3.908	4.881	
	60.75								

1861	10 P. M.				Wind		Thermometer		
July	E	A	Bar	Hg ²	Dir ^{ts}	Miles	Max	Min	
1	56.7	61.	29.857	57.6	W	103.5	68.5	53.3	b. v. 12
2	53.6	60.5	29.893	56.2	W	102.	65.	52.2	b. v. 12, CS
3	57.6	63.	29.467	54.4	S	83.5	69.8	53.5	o. m. 12.5. CS
4	53.6	59.4	28.905	58.6	S	174.5	64.2	53.	o. v. 12.5. n
5	54.8	62.	29.087	53.3	26S	160.5	67.	53.	b. m. 12. CS
6	57.8	63.	29.351	55.7	N6E	44.5	69.	53.5	b. m. 12. 12.5. CS Cuffs Stile
7	54.7	63.	29.561	54.7	S E	37.	71	52.5	b. m. 12. 12.5. Thunder at 4 P. M. in S E
8	55.2	62.	29.722	57.6	W	38	69.3	52.	o. m. 12
9	50.6	61.8	29.762	55.3	W	66.	67.3	52.6	b. v. S. CS.
10	48.3	58.5	29.737	50.5	WSW	93.5	62.6	50.	b. v. S. CS.
11	52.6	57.5	29.317	48.9	NE	46.5	52.6	49.4	o. v. KS. N
12	53.1	55.2	29.560	47.2	N	87.5	65.5	50.5	o. v. S.
13	54.6	58.6	29.451	53.1	NW6N	104.8	62.9	53.6	o. v. S. KS.
14	57.6	60.	29.528	51.9	N6W	70.	67.	54.6	b. v. KS
15	55.	58.	29.493	54.7	W	41.5	68.5	52.5	b. m. 12.5. CS Min = 52.5
16	53.7	60.1	29.550	57.5	SW 1/2 E	76.5	64.8	50	b. v. KS. K. Nat Horn in NE by E
17	53.2	58	29.354	56.2	SW 6 W	148	63	51.5	o. v. KS
18	51	55.2	29.354	54.6	SW	113.5	69.5	49	b. v. KS. K. S
19	53.7	60.1	29.404	51.8	W 1/2 N	51	66	48	b. v. K. KS. S
20	52.7	60	29.538	52.9	W	54	66.2	49	b. v. K. KS
21	54.4	61.5	29.441	51.5	SE 6 S	11.5	67.7	53.5	b. v. R. KS. K
22	54.3	60.	29.140	54.9	N. E	126.	68.	53.	o. m. 2 in
23	52.2	61	29.509	54.7	WSW	69	67.2	54	b. v. K. S
24	54.9	59	29.329	53.2	E	70	65.	51.5	o. v. N cannot determine clouds
25	53.2	60	29.340	51.8	N	46	65	51.5	o. v. KS.
26	51.4	60	29.489	55.1	W 1/2 N	47	67	52.5	b. v. KS. CS.
27	53.2	60.2	29.490	52.3	W 6 S	48.5	67.2	49.5	b. v. KS. CS
28	52.5	59	29.745	51.3	SSW	83.5	64.8	50	o. v. KS
29	55	57.8	29.214	52.1	SE 6 S	273.5	63.2	50	b. v. 9. KS. CS Blow very hard at 6 ^h
30	52.9	58.2	29.506	53.2	SW	174	66	53.5	b. v. KS
31	55.8	60	29.724	54.2	SW 1/2 S	86.5	67.1	51.5	b. v. KS
				51.4			✓ 66.1	✓ 51.8	
	53.93	59.79	29.478				66.05	51.85	
							64.14		

1861	10 A.M			Wind			Rain			
August	E	A	Bar	Hwy	Dir	Miles	Sq ^r	Row		
4	1	63.5	59	29.748	63.8	SSW	72.5	0.091	0.075	6. v. KS. K
	2	64	61.2	29.363	61.6	SSE	224	0.402	0.158	0. v. q. r. KS. N
	3	59.1	60.2	29.537	59.8	W $\frac{1}{2}$ N	85.5	0.080	0.127	0. v. d. KS
①	4	65	61.8	29.561	60.6	SW $\frac{1}{2}$ W	127	0.114	0.103	6. v. KS. K
	5	61.9	62.2	29.504	62.4	S. S. W	162.5	0.057	0.063	6. v. H. Hs. q
	6	63	61.5	29.792	63.7	WSW	152.5	0.014	0.036	6. v. KS. CS. K.
	7	58.8	61	29.516	59.2	SW	174	0.162	0.523	0. m. q. r. KS. N
	8	63.7	61	29.341	64.6	SW $\frac{1}{2}$ W	159	0.210	0.206	0. v. q. H. Hs
	9	59.4	60.5	29.590	59.8	SW	75	0.095	0.060	0. m. r. n
	10	66.4	64.2	29.829	66.7	SW	51	0.040	0.053	6. v. KS. K. CK
①	11	61.2	62.2	29.747	62	SW	70	—	—	0. v. KS.
	12	59	63	29.410	58.8	N $\frac{1}{2}$ E	165	1.493	1.506	0. v. d. KS
	13	61.8	60.8	29.781	62.1	W $\frac{1}{2}$ N	34	0.039	0.040	6. v. KS. K
	14	57.1	60.4	29.681	57.5	SE $\frac{1}{2}$ S	107	0.042	0.044	0. m. r. KS. N
	15	65.1	62.5	29.420	65.6	SSW	135.5	0.362	0.545	6. v. q. K. KS
	16	62.4	59.4	29.500	63.3	S. S. W	133.	—	—	6. v. q. K. CK.
	17	60.2	58.4	29.654	60.7	SW	100.5	0.068	0.062	6. v. q. K. KS
①	18	63.5	62	29.300	64.5	S	262.5	0.638	0.827	0. m. r. q. KS. N Bar heaving
	19	60.1	59.2	29.556	60.9	SW	131	0.182	0.209	6. v. q. K. CS. KS. C
	20	60.2	59.8	29.802	60.7	W $\frac{1}{2}$ N	92.5	0.074	0.065	6. v. KS. N in north East
	21	60.7	60	30.031	60.9	W	54.5	0.145	0.125	6. v. KS. K
	22	58.1	59.8	29.788	58.6	SW	145.5	0.192	0.215	0. m. q. r. N. KS
	23	59.8	58	29.880	60.1	W	100.5	0.129	0.144	6. v. K. KS. N in east
	24	59	59	29.989	59.8	W $\frac{1}{2}$ N	114.5	0.046	0.046	0. v. KS. N in north East
①	25	59.8	58	30.004	60.6	WSW	73.5	Tran	Dr	0. v. KS. CS. K
	26	61.2	58.5	30.045	61.9	WSW	79	0.021	0.039	0. v. KS
	27	64.1	62.5	30.073	65	W $\frac{1}{2}$ S	104.5	—	—	0. v. d. KS
	28	62.8	62.1	29.699	63.8	SSW	118	—	—	6. v. q. K. KS
	29	59.6	60	29.683	60.2	SW	78	—	—	6. v. q. KS. CS
	30	59.7	58.2	29.927	62.5	W	121	0.609	0.618	6. v. q. KS. K Bar heaving; firm Hols at 9 Am
	31	61.8	61	30.032	62.5	SSW	71	—	—	6. v. q. C. CS. S. K
		61.39	60.56	29.704				5.605	6.291	
		61.35								

1861	10 P. M.			Wind			Thermometer			
August	E	A	Bar	Hg.	Dir.	Miles	Max.	Min.		
4	1	57.5	59.5	29.520	57.2	SSE	145	68.2	52.5	o. g. d. KS
	2	55.2	61	29.317	54.2	SW/W	82.5	68.1	56	6. v. KS. CS
	3	59.8	61	29.502	60.2	SW	108	67	56	o. v. d. KS. N
5	4	59.1	62.9	29.542	52.8	S	149.0	70	58.5	6. v. S. K.
	5	54	60.5	29.576	54.7	SW	206.5	66	55	6. v. KS. Y
	6	59.8	62	29.746	57.3	SSW	106	67.2	54	o. g. KS
	7	61.1	62.5	29.338	61.7	SW/LS	122	68	56.5	o. g. v. KS. N
	8	57.3	62	29.544	58.2	SW	147	67.3	57.5	6. v. H. Hs. e. es
	9	55.3	61.5	29.805	56.2	WSW	62	68.5	55	6. m. Hs. e. es
	10	62.7	61.5	29.673	62.3	SW/W	120	70.5	55.5	o. g. Y. KS
6	11	61.2	62	29.470	61.9	SW/W	66.5	66.2	57	o. g. KS
	12	56	62.4	29.584	56.5	NW/W	26	66	56.5	o. g. KS
	13	54.4	59.4	29.883	55.3	Y/W	42.2	68	53	o. g. K.
	14	58.9	61	29.361	59.5	SSW	196	63.2	55	6. v. KS.
	15	53.8	62.5	29.520	54.5	S	123.5	70.1	55.4	6. v.
	16	52.8	60.8	29.548	52.5	SW	114	68.4	51	6. v. KS
	17	56.2	61	29.663	56.9	S	126.5	66	51	o. v. KS. K. CK
7	18	53.4	61	29.505	54.2	SW	163	69	54	6. v. KS Much thunder at 3 PM
	19	53.2	60	29.698	53.9	WSW	121.5	64.8	50.5	o. v. d. KS. N
	20	53.2	59	29.976	53.7	W	68	63.5	50	o. v. KS
	21	55	60	30.008	55.9	SW/LS	60.5	66	52	o. v. d. KS.
	22	53.8	59.2	29.800	54.7	WSW	120.5	64.5	54	6. v. KS. K
	23	53.8	59	29.974	54.8	WSW	116.5	64.5	53	o. v. KS
	24	51.2	59	30.064	51.8	WSW	93.5	65	52.5	6. v. CS. K
8	25	54.8	59.3	29.961	55.4	W	127	64	51	6. v. S Sky remarkably clear
	26	59.8	61.8	30.066	60.4	SW/S	92.5	70	52	6. v. KS
	27	61.3	62.8	29.961	61	SW/LS	76	69.2	60.5	o. v. KS
	28	59.1	63.5	29.590	58.1	SW	120	70	56	o. v. KS
	29	52.5	60	29.720	52.8	SW	197	69.2	51.5	o. g. H
	30	49	59.1	30.072	49.8	SW/LS	87	62.5	48.5	6. v. S. C
	31	57.8	61.5	29.948	58.7	SW	93	68.1	49.5	o. g.
		56.24	61.02	29.707				66.78	53.89	
							64.87		53.9	

1861		10 A. M.			Wind		Rain		
Sept.	E	A	Bar	Hyg ²	Dir ²	Miles	Square	Round	
1	61.6	60	29.795	52.2	SSE	83	---	---	o. v. K. S. C. S.
2	64.1	60	29.655	54.7	SWbs	125.5	0.008	0.007	6. v. q. C. S. K. S. K
3	60	60	29.463	57.3	WSW	127	0.245	0.237	o. v. r, WSW
4	61	59	29.603	61.6	S.W	137	0.025	0.023	6. v. H. Hs. C. C. S.
5	62.1	59.1	29.805	62.5	SW	64.5	trace	0.004	6. v. H. Hs. C. C. S.
6	59.1	59.8	29.474	59.4	SSW	133	0.574	0.564	6. v. H. Hs
7	55.8	57	29.761	56.4	W	83	0.030	0.023	6. v. Hs. C. S.
8	58.3	56.5	29.560	54.7	S	120	0.150	0.112	o. m. Hs. n
9	58	56.6	29.770	56.3	N.W.	70	0.010	0.006	6. v. H. Hs. C. C. S.
10	56.6	54	29.847	56.7	N	27.5	---	---	6. v. H. C. H.
11	55.8	53.8	29.742	51.2	S. E	34.5	---	---	6. v. H. C. S.
12	57.6	55.2	29.860	57.8	S.W	86	0.180	0.183	6. v. H. C. g
13	56.8	57	29.195	54.1	S	279	0.455	0.472	o. m. H. Hs. g - Bar hearing
14	53.8	56	29.490	56.4	N.W.	84	0.185	0.206	o. v. H. Hs. g
15	52.4	54.4	29.677	53.5	NW	87.5	0.043	0.022	o. v. H. Hs. g
16	55.6	54.2	29.995	56.8	NW	44	0.025	0.031	o. v. H. Hs
17	56.5	54.2	30.073	56.6	NW	25	---	---	6. v. H. Hs. C. S.
18	54.6	54	30.015	51.3	S.W	31.5	---	---	o. v. Hs
19	58	55	29.830	49.8	SSE	110.5	---	---	o. v. H. Hs. S
20	55.4	54	29.488	55.7	SW	209.5	0.360	0.495	6. m. H. C. S. g
21	51.6	53.5	29.280	52.1	S	210	0.220	0.223	o. m. r
22	53.2	53	29.243	42.2	S	23	0.007	0.007	o. m. H. Hs. n
23	53.7	53.5	29.058	53.5	W	89.5	0.545	0.468	6. v. H. Hs
24	50.7	51	29.028	49	S E	62.5	0.028	0.021	o. m. r
25	53.2	52.4	29.210	52.4	N E	37	0.260	0.222	6. v. H. Hs. C. S.
26	54.8	53	29.565	51.4	NWbW	12.5	---	---	6. m. H.
27	53.8	52	29.472	50.4	S E	148	---	---	o. m. Hs. C. S. g
28	56.5	54	29.413	56.7	S 1/2 W	167	0.525	1.034	6. m. H. C. C. S. g + cock open a short time
29	54.7	53	29.471	53.3	S	249.5	0.075	0.060	6. v. H. g
30	58.4	55	29.536	51.2	S. E	167	0.085	0.082	o. m. H. Hs. g
				56.4					
	56.46	55.34	29.583				4.035	4.502	

1861	10. P. M.				Wind	Thermometer				
Sept.	E	A	Bar	Hg ²	Dir ²	Miles	Max	Min		
0	1	56	61.5	29.700	56.8 55.9	SW	129.5	66.4	55	6. v. KS. S Some Aurora in NW
	2	57.4	60.	29.414	58. 57.4	SW	168	66	52.	o. m. r.
	3	55.3	61	29.563	56. 54.	SW	150	67.	53	o. v. H. n
	4	55.4	59	29.750	56.1 53.3	WbS	68	63	53	o. v. H. HS
	5	60.6	59.5	29.471	61. 60.7	S	156	63.4	53.5	o. m. rain
	6	52.7	59.	29.507	53.4 51.8	WbS	118	63.3	53.5	o. m. rain
	7	48.8	57.2	29.860	49.4 48.4	WSW	59	61.	49.8	6. v.
0	8	52.6	58.	29.676	53.2 52.	WSW	90	63	48.5	6. v. CS
	9	48.3	57.6	29.812	49.2 48.3	NW	54.5	62	50.2	6. v.
	10	47.3	57.2	29.810	48. 46	SSW	29.5	61.2	43.	6. v. C in SE
	11	55.8	58.	29.658	56.4 53.5	SE	158.5	61.7	41.5	o. v. HS. CS. 2
	12	55.8	58.	29.823	56.5 53.4	SE	139.5	63.6	46	o. v. H. CS. 2
	13	54.8	57.5	29.247	55.8 54.5	S.WbW	254.	61.2	53.3	o. m. rain
	14	49.6	55.	29.617	49.8 47.3	NW	105.5	59.	49.6	o. v. H. HS
0	15	50.7	55	29.827	51.4 49.5	NW	98.	58.	48	o. v. H. HS. CS
	16	50.2	55.5	30.048	50.6 47.3	N.W	40	59.5	49.5	6. v. H. C. CS, D halo
	17	50.7	56.2	30.060	51.4 50.3	N.W	27	61.	48.5	o. m. H. CS
	18	53.7	56	29.966	52.6 51.5	SE	72	61.	47.	o. m. H. HS
	19	55.3	56	29.465	55.7 54.8	SE	250.5	61.8	51.8	o. m. r. Scud
	20	49.	54.	29.472	49.4 48.6	SEW	210.5	59.1	48.5	o. m. r.
	21	47.7	54.5	29.285	48.2 48.	S	72	59.	49.	6. m. H. S,
0	22	50.	54.	29.013	50.5 50.3	SW	104	57.	44.5	o. m. rain
	23	46.	55.	29.077	46.8 45.2	SW	115.5	58.8	47.	6. v. H. S, Min 4 Ex. H. quite right
	24	46.6	53.5	29.025	46.8 46.1	N	69	58.	42.	6. v. H Thunder at 6 ^h
	25	50.	54.	29.404	50.5 49.	NWbN	56.5	58.2	45.2	o. v. HS
	26	44.8	53.8	29.575	45.7 44.6	SW	30.5	59.	46	6. m.
	27	54.6	54.7	29.233	55.3 54.3	SE	326	57.	45	o. m. r. 2
	28	51.3	54.	29.390	51.8 50.6	SEW	81	61.	50	6. v.
0	29	50.6	54.7	29.635	51.1 49.7	S	135.5	61.1	48	6. v. H
	30	58.3	56.2	29.494	59. 57.4	SEW	133.5	61.	50.7	o. m. light rain 2
		52.00	56.52	29.557			60.72	49.09		
							58.81	48.8		

1861	10 A. M.			Wind			Rain		
October	E	A	Bar	Hg ⁹²	Dir ⁹²	Miles	Square	Globe	
♂ 1	53,	54.4	29.546	53.4	SW	85.5	0.010	0.006	6. v. H
2	54.1	54.	29.734	54.3	SWbW	111.	---	---	7. m. H. c. cs. S
3	53,	52.	29.986	52.7	WbS	14.5	---	---	6. m. c. cs. S
4	56.3	53.4	29.791	56.7	S $\frac{1}{2}$ E	66.5	0.015	0.013	0. m. H. Hs. n
5	52.4	54.1	29.910	51.3	WSW	30.	1.000	0.930	6. m. H. cs
6	50.8	52.	29.989	49.2	SSW	65	---	---	6. m. H. c. cs. S.
7	52.7	51	29.730	51.8	S	107	---	---	6. m. Hs. c. cs
8	57.7	55.7	29.470	53.3	SSW	161	0.180	0.183	0. m. H. Hs. cs. scud
9	51.3	52.8	29.697	56.5	WSW	75	0.228	0.193	6. m. H. c. S.
10	52.5	51.	29.680	49.9	NbW	30	---	---	6. m. H. Hs. c. (in 10 ^m wind was E)
11	58.1	55.8	28.829	52.4	S. E	265.5	0.320	0.284	0. m. Rain
12	57.8	54.8	29.297	58.6	S. W	309.	0.085	0.107	6. v. H. cs. g
13	59.3	58.	29.236	53.5	SS E	302	0.190	0.210	6. m. H. Hs. cs. g
14	56.	54.2	29.697	56.7	SSW	197	0.105	0.074	6. v. H. S.
15	51.3	53.	30.012	52.1	WbS	2	---	---	0. m. H. Hs
16	46.3	49.	30.195	51.3	WbS	11	0.025	0.023	6. m. c. cs
17	48.	48.8	30.114	49.6	NWbN	1	---	---	6. m. c. cs.
18	50.2	47.	29.928	48.2	S E	25.5	---	---	6. m. H. Hs
19	56.	52.8	29.653	50.3	S E	118.5	---	---	6. m. H. Hs. e. cs. S.
20	56.3	53.1	29.663	48.6	S	79.	---	---	0. m. H. Hs
21	55.6	53.2	29.460	53.7	S. E.	102.	---	---	0. m. H. Hs. g
22	57.8	54.	29.535	54.1	S E	164	0.017	0.016	6. m. H. Hs. e. cs. S
23	52	52	29.537	56.	SS E	129.5	---	---	0. m. H. Hs. cs. g
24	53.2	53.3	29.696	52.4	SSW	75.5	0.510	0.495	6. m. H. Hs. cs.
25	46.2	50.	29.973	51.6	SW	39.	---	---	3 fog. bright above the fog
26	45.6	48.5	30.136	46.3	S E	12	---	---	3 fog.
27	49.1	50.6	30.095	45.7	N E	53.	---	---	0. m. uniform misty cloud
28	47.3	48.3	30.143	48.8	N. E	35	---	---	6. m. H. c. S.
29	42.3	48.	30.050	47.6	NbE	9	---	---	6. m. H. cs.
30	46.5	48.5	29.842	42.1	SWbS	54.5	---	---	6. m. Hs. cs. S.
31	45.4	46.5	29.483	46.6	SW	97.	0.026	0.028	6. m. H. Hs. cs
	52.03	51.99	29.745				2.711	2.562	

1861	10. P. M.				Wind		Thermometers		
October	E	A	Bar	Hg ⁹²	Dir ⁹²	Miles	Max	Min	
♂ 1	49.	55.8	29.537	49.5	SW	91.5	61.6	47.5	6. V. S.
2	44.5	55	29.917	45.3	SSW	64.	58.2	46.5	6. V. S.
3	48.3	54	30.013	48.6	W	33.5	58.	42.	6. m. S.
4	53.5	56	29.757	54.8	WbS	137.5	61.2	47.5	0. m. rain
5	45.9	55.5	29.975	46.5	SW	62.	58.	47.	6. V
6	48.3	53.4	29.885	48.2	S	98	57	45.	6. m. Hs. S
7	55.7	55	29.588	54.3	S	183.5	60	44.	0. m. Hs.
8	43.8	55.7	29.459	44.5	SW	87.	60	48	0. m. rain
9	47.	54.1	29.778	47.6	SSW	92.5	57.3	45	6. V
10	55.4	53.8	29.306	53.8	SE	131	57.8	41.5	0. m. H. Hs. r. sheet lightning at 7.15
11	50.7	53.5	28.817	51.5	S	227.5	61.	50.	0. m. Hs. r. & up to 10
12	56.8	56	29.319	57.3	S	237.5	60	47.5	0. m. rain.
13	51.4	54.7	29.411	52.5	S	333.	63	52.	6. V. H
14	48.5	56.3	29.897	49.2	SSW	95	59.	48.5	6. V. H. cs, halo
15	44.6	53.	30.076	44.3	W	2.5	54.	46.	6. V.
16	42.	53.	30.193	42.6	NNW	2.5	54	37.5	6. m. cs
17	45.7	52.4	30.050	45	S	112	56.4	38.	6. m. cs. S.
18	48.8	50.4	29.805	49.2	S. E	115.5	58. x	34	0. V. H. Hs x 57°
19	54.	53.9	29.614	54.5	SEbS	177	59.4	49.	0. m. H. Hs
20	53.7	53.7	29.626	53.1	SS E	77.5	58.9	51.	6. V. H. Hs. S.
21	54.6	54.2	29.400	54.3	SS E	54.	58.9	51	0. m. H. Hs.
22	54.4	55.6	29.622	55.4	S	104.5	62.4	52	0. V. H. Hs
23	52.7	54.5	29.526	53.2	S.S.W	219.	58.2	46.5	0. m. n.
24	47.	54.	29.783	47.5	S	90.5	57.	48.	6. m. Hs. S. - sheet lightning. 8.30
25	41.3	52	30.095	41.5	SW	13.5	52.8	41.	dense fog
26	46.	51.4	30.089	46.3	E	54.	54.6	38.3	6. m. Hs
27	46.4	51.	30.110	47.5	NE	78	54.6	46.	0. m. Hs
28	42.3	50.	30.135	42.6	N. E	48	54.	39.5	6. m. Hs. cs. faint Aurora in NW
29	42.8	50	29.960	43.4	SE	13	52.8	40.5	6. m. Hs. c. cs.
30	45.1	49.6	29.742	45.3	WSW	69	53.	41.	6. m. Hs.
31	37.6	45.8	29.341	38.9	WSW	106.	49.7	38.	6. m. H. Hs
							57.4		
	48.32	53.27	29.736				57.45	43.85	
							55.54	44.8	

1861	10 A.M.				Wind		Rain		
November	E	A	Bar	H ₉₉ ²	Dir	Miles	Square	Globe	
♀ 1	34.6	44	29.159	34.73	W6N	113.5	0.055	0.035	0. m. Sleet
2	40.7	42.2	29.438	40.7	NW6N	100	0.213	0.232	6. v. KS. K. New NW Snow
⊙ 3	38.8	41.8	29.743	38.4	NW6W	66.5	0.017	0.005	6. v. K KS. N
4	46.7	45	29.600	37	SW	175.5	0.063	0.121	0. v. KS. q
5	43.6	46.2	29.171	47.1	SW6S	379.5	0.135	0.174	6. v. S. K The miles are for 24 ^h .
6	37.8	42	29.164	48.8	SW6S	93	0.010	trace	7/8 v. h. CK. K. S
7	31.7	39.4	29.227	37.2	SW6S	21	—	—	m
8	40	41	29.256	31.7	N	19	0.106	0.130	6. v. h. S. K
9	34	38.5	29.384	32.9	S	127	—	—	6. m. CK. K
⊙ 10	38.8	39	28.913	31.9	NE	14.5	0.277	0.392	0. m. q. K. KS. N
11	38.8	40	28.977	38.4	SW	189	0.167	0.261	0. v. m. q. v. KS. N Bar heavier
12	42.1	41.5	29.331	39	SW6S	256.5	0.076	0.142	6. v. q. KS. K
13	37.9	40.2	29.455	42.5	WSW	69.5	—	—	6. m. K
14	38.1	39.7	29.254	37.5	W6N	36	—	—	0. v. h. KS New East
15	36	39.8	29.452	36.4	NW6W	25.5	0.106	0.119	0. v. m. CS. S. KS Fine Halo
16	32.7	37.5	29.536	38.9	N6W	34	gauge frozen	—	6. v. m. CK. K
⊙ 17	33.1	40.6	29.890	30.7	SW6S	37	—	—	6. v. m. S. KS CS
18	34.1	34.9	30.172	32.9	SW6W	69.5	—	—	6. v. C. CS
19	41.7	39.1	30.049	32.1	SW	215.5	0.097	0.068	0. v. q. KS. Bar heavier
20	44.1	44	29.750	32	SW	279.5	0.320	0.595	0. m. q. q. KS N Bar heavier
21	51	48.5	29.183	44.1	SSW	253	0.467	0.974	0. v. q. q. KS N Do do
22	38.8	41.2	29.155	51.2	SW	236	0.125	0.266	6. v. q. KS. K. CK
23	32.8	39.5	29.254	38.7	W6N	91.5	0.200	0.326	0. v. KS. CS
⊙ 24	30.5	36.1	29.739	32.3	SW	45	—	—	0. m. S. CS. faint Halo
25	47	44	29.097	30.2	SW6S	416	0.055	0.074	0. v. q. v
26	42	44	29.138	30	SW	106	0.490	1.104	6. v. H. S. q
27	37.3	40	29.450	26.9	S. W6W	204	—	—	0. m. rain beginning
28	37	37.7	29.568	46.6	SW	136	—	—	6. v. S.
29	52	46	29.229	42.3	SW6W	263	0.120	0.073	0. m. Uniform Grey Cloud
30	40.7	44	29.375	51.6	SW	232.5	0.120	0.314	6. m.
	39.21	41.24	29.407	38.4			3.219	5.393	

1861	10. P.M.			Wind		Thermometers			
Nov ^r	E	A	Bar	Hg ^r	Dir	Miles	Max	Min	
♀ 1	37.6	42.8	29.364	37.2 35.2	NW	100.5	44	34	b.v. KS snow during day Miles White
2	34.7	41.2	29.576	37.8 33	NW	102	45.5	31	b.v. KS in E, diffused Aurora
⊙ 3	40.9	43.1	29.678	40.8 40.8	SW	111	46.5	33	o.g. d
4	46.5	46.5	29.308	46.9 45.6	S	—	51.5	40	p.g. q
5	36.2	44	29.190	36.6 35.9	SW	197.2	52	36.5	b.v. v
6	30.9	42.2	29.181	37 30.9	WSW	45	46	32	b.v. h
7	38.8	41	29.189	39.8 38.8	WbS	99.5	41.9	27	o.g. d
8	32.9	41	29.349	39.2 32.5	N	48.5	47.1	32.5	b.v. S faint Aurora in N
9	28	38.2	29.270	38.5 30.5	SEbS	44.5	39.2	28	b.v. v
⊙ 10	37	40.2	28.897	37.2 36.9	SW	83.5	44	27.5	o.v. d. KS
11	40.3	41	29.200	40.8 39.5	SWbS	286	43.2	35	o.v. KS. q
12	39.1	41.8	29.432	39.7 38	SSW	189.5	48	38.5	b.v. CS. KS. K
13	33.9	41	29.366	34 36.2	N	27	44.2	34	b.v. m
14	36	40	29.376	35.9 31.8	W	41.5	43	31	o.v. r. KS. CS
15	31.8	39	29.505	30 30.9	NNW	38	43	31	b.v. KS. K snow fell at 6 ^h PM
16	30.2	37	29.765	32 30.9	NbW	60	39.1	28.5	b.v. CS. KS. Thin film of CS on the sky
⊙ 17	30.5	37.2	30.000	30.9 30.9	WSW	29.5	40.2	25.5	b.m. KS. K. CK
18	35	38	30.227	35.2 34.2	SWbS	93	41.9	35	o.v. KS
19	46	42.8	29.960	47 45.8	SWbS	339	49.1	32.5	o.v. q. KS
20	48.6	45	29.604	48.8 48.8	SW	295.5	51.2	44	o.v. KS
21	40.7	43.2	29.220	41 39.9	WSW	292	54.4	40	b.v. q. KS
22	34	39	28.956	33.9 33.9	SW	191.5	45.9	33	o.g. r
23	27.9	38.9	29.518	28.1 28.1	NW	22.5	40	29	b.v. very bt auroral arch b.m. NNW
⊙ 24	36	36	29.450	36.2 35	S	225.0	39.5	26	o.g. q.
25	48.3	44	28.776	49.3 48.3	WbS	343	54.	35.5	o. rain
26	37	41	29.369	37.2 35.1	SW	254	51.	37.	b.v. 12.5. q.
27	32.2	39	29.600	32.4 31.2	SW	149	42	32	b.v. 12.5
28	39.7	39.8	29.490	39.8 38.2	SW	232	44.4	30	b.v. 12.5. q.
29	50.2	49.2	29.162	50.2 49.2	SW	358.5	56.2	39	o.m. q. rain
30	40.9	43.2	29.210	41.2 38.7	S.W	376.	52.4	38	b.m. 12.5. q
							46.1		
	37.37	41.21	29.403				46.28	33.20	
	37.39						44.37	33.2	

1861	A. M.			Wind			Rain		at 9 Am. & P. M. for This Month, for Captain Gaulton.	
Decr.	E	A	Bar	Hg ²	Dir	Miles	Square	Globe		
1	37.4	42.6	29.850	37.6	NW	198	0.070	0.176	6. V. K. S. S	
2	41.4	40.8	29.990	36.4	S	119	---	---	2. m. rain commencing	
3	46.7	45.0	29.850	40.7	S	352	0.020	0.011	0. m. 11. S. 9	
4	44.5	45.	29.697	42.8	S	226	---	---	0. V. 11. S. 8/9	
5	35.7	41.	29.474	42.1	SSW	170	0.260	0.492	6. m. 11. S.	
6	41.4	41.5	29.250	35.7	SSW	92.5	0.075	0.047	0. m. rain	
7	42.4	44.	29.010	41.6	WSW	120	0.750	0.747	6. 11. S. m	
8	38.8	42	28.960	40.2	SW	234.5	0.097	0.120	6. V. 11. C. S. S. 9	
9	36.8	39.8	29.310	41.8	SSW	194.	0.020	0.018	6. V. 11. 11. S. S.	
10	41.8	45.	29.285	38.8	SSW	299	0.210	0.219	6. m. 11. S. C. S. S. 9	
11	40.8	41.8	29.537	40.2	S	264	0.016	0.011	6. m. 11. E. S. 9	
12	46.2	46.	29.167	41	SESE	258.5	0.250	0.290	0. m. rain	
13	45.	47	28.920	46.6	S	265	0.340	0.400	6. m. 11. 11. S. S	
14	44.4	45.	29.611	45.3	WSW	166.5	---	---	0. m. 11. S. E. C. S	
15	42.9	45.9	30.010	44.6	WS	156	0.018	0.046	6. V. C. K. K. K. S	
16	46.9	46.8	30.116	43.9	WSW	111	0.011	0.017	0. V. K. S	
17	45.2	46	30.004	42.2	SW. S	128	---	---	0. V. m. K. S	
18	42.7	45.8	29.996	41.8	NW	268	---	---	6. V. S	
19	31.2	42	30.305	41.8	NNW	23	---	---	6. f. C. K. S	
20	36.8	41	30.320	37.2	WSW	27	0.013	0.014	0. m. K. S. S	
21	37	41	30.264	36.6	SW. W	21	---	---	0. m. K. S	
22	41.1	41.2	30.205	35.9	NW	20	Trace	---	0. V. m. K. C. K. 9	
23	41.1	42	30.244	32.2	NE	56	---	---	0. V. m. K. S	
24	39.7	41	30.116	39.8	E 1/2 N	45	---	---	6. V. m. K. S	
25	32	39.	29.904	38	S	59	---	---	6. m. C. S. S	
26	27.3	36.7	30.100	37.2	S	14	---	---	6. f. K	
27	34.8	35.5	30.281	32.7	NNE	36.5	---	---	6. m. C. K. Blue visible. Thin cirrus	
28	36.1	37.5	30.279	32	ESE	73	---	---	fog, wet.	
29	32.5	36	30.274	36.7	SE	16.5	---	---	fog	
30	30.7	35.2	30.253	35.7	S	43.5	---	---	fog	
31	27.5	33	30.257	37.9	E	10.5	---	---	fog	
	39.06	41.71	29.832	27.2			2.150	2.608		

1861	10. P. M.			Wind		Thermometers		for Capt. Gatten	
Decr.	E	A	Bar	Hgg ²	Dir	Miles	Max	Min	
1	34.3	41	30.082	34.5	S.S.W	55	46	33	b. m. N.S. S.
2	48.	47	29.855	46.	S	270	51.2	31.5	O. g. Rain
3	45.6	46	29.887	45.7	S	261	51.3	44.5	O. m. light rain
4	40.7	45.	29.344	40.8	S.W	286	50.	41.3	b. v. N.S. - Aurora in N.W.
5	38.3	42	29.497	38.6	S.W	160	45.5	34.5	b. v. N.S. DO. DO.
6	45.3	43.8	28.909	45.3	S.W	127	48.2	36.	O. m. uniform cloud
7	42.6	44.	28.984	42.8	S	178	49.	41.5	b. v. N. C.S
8	34.7	39.8	29.191	34.7	SSW	260.5	47.2	35	b. v. S. g
9	40.4	41.8	29.450	40.4	S E	190	43.6	34.5	O. m. N.S. C.S
10	41.2	43.	29.480	41.4	S	264	51.2	40	b. v. g - Lightning & hail at 9 ^h 1 ^h
11	49.7	46.7	29.228	49.3	S	360	51.5	39	O. m. rain. a Gale
12	51.9	49.	28.993	51.9	S	299	54.5	45.	O. v. N. N.S
13	42.7	46	29.217	42.6	W	126	56.	42.5	b. v. N. N.S
14	45.5	45.5	29.786	45.1	W S	202	58	41.5	O. v. K.S. C.S
15	48.9	46.5	30.070	48.3	W S	152.5	51	44.5	O. v. K.S
16	46.1	47	30.104	46.5	SW S.W	95	52	45.5	O. v. K.S
17	44.8	46.8	29.892	44.8	W		51.2	43.5	b. v. K.S
18	35	44.	30.182	35.1	N	67	49.5	35	b. v
19	35.5	41	30.305	35.1	W	20	40.2	29.6	O. m. C.K
20	37.8	41.5	30.300	37.8	WSW	32.5	42	34.5	O. v. K.S
21	37.9	41.1	30.218	37.8	SW S	63.5	42.2	36	O. g
22	41.2	43	30.246	41.2	N E	40.5	45.6	37.5	O. g
23	38.2	42	30.194	38.2	N E	59.5	46	37.5	O. g K.S. C.S
24	39.4	41	30.000	39.4	E S E	96	44.4	35.	b. v
25	29.7	38.	29.600	29.7	S	11	46	30.	O. m.
26	29.9	35.5	30.192	29.9	SS	10.9	38.8	25.5	O. m. g
27	35.3	39.5	30.297	35.3	E N E	81	42	25	b. m
28	27	37.2	30.290	27	E S E	27	42.2	27	f. thin fog is luminous
29	28	35	30.264	28.2	S W	15	36.8	25	O. f
30	31.7	35.8	30.262	31.7	N E	68.5	39.1	27.7	b. f
31	27.1	33	30.240	27	E	7.5	37.2	22	f. g
							✓ 46.4		
	39.43	42.21	29.824				46.40	35.57	
	39.17						44.49	35.6.	

Summer = $-\frac{1}{45}$
 Winter = $-\frac{1}{180}$
 Year = $-\frac{1}{72}$

Blank

1861	10 A.M.			10 P.M.			Rain		Thermometry	
	E	A	Bar	E	A	Bar	Square on Lotion	Globe	Max	Min
January	39.62	39.83	29.825	39.30	40.50	29.820	1.999	2.710	54.1	19.5
Feb	41.26	41.58	29.478	38.68	42.20	29.491	1.720	2.204	50.0	24.0
March	44.21	43.22	29.431	40.43	43.93	29.447	4.147	5.740	52.0	31.0
April	48.97	47.93	30.002	43.63	49.17	30.000	1.072	1.069	61.0	34.5
May	56.46	55.51	29.657	48.73	54.57	29.639	0.482	0.877	74.0	31.3
June	56.93	55.45	29.467	56.25	56.96	29.483	3.725	3.725	76.3	46.0
July	60.66	59.09	29.481	53.93	59.79	29.478	3.908	4.881	71.0	48.0
August	61.39	60.56	29.704	56.24	61.02	29.707	5.605	6.291	70.5	48.5
September	56.46	55.34	29.583	52.00	56.52	29.557	4.235	4.502	67.0	41.5
October	52.03	51.99	29.745	48.32	53.27	29.736	2.711	2.562	63.0	34.0
November	39.21	41.24	29.407	37.37	41.21	29.403	3.219	5.393	56.2	25.5
December	39.06	41.71	29.832	39.43	42.21	29.824	2.150	2.608	56.0	24.0
Summer	58.08	56.63	29.695	52.50	56.88	29.689	21.612	22.281	321	
Winter	42.04	42.58	29.665	39.82	43.20	29.660	14.307	19.724		
Year	50.14	49.67	29.682	46.22	50.09	29.677	35.919	42.045	045	
	Rain Days	Mean Ther.	Mean Bar.							
Jan	16	39.46	29.822							
Feb	17	39.97	29.484							
March	28	42.32	29.439							
April	9	46.30	30.001							
May	8	52.52	29.949							
June	15	59.00	29.796							
July	22	57.29	29.479							
Aug	24	58.81	29.706							
Sept	22	54.23	29.570							
Oct	13	50.17	29.728							
Nov	20	38.29	29.405							
Dec	14	39.25	29.828							
	208									

Mean Temperature of Year = 48.18

Max. June 14th = 76.3

Min. Jan 8 = 19.5

Mean Barometer = 29.679

Max. Feb 2nd A.M. = 30.885

Min. " 6. A.M. = 28.685

12 August. 1.506 by Round Gauge