

1859	9 AM -			Wind	Rain		Mean dew-point = Mean humidity =		
Jan 5	E	A	Bar:	Force	Direction	Square	Round		
1	41.1	43.9	30.155	40.73	4	SW		0.017	b ₁ . V. K. CK. C
2	36.9	42.1	30.437	36.13	2	SWbS	0.013	0.003	b ₉ . m. S
3	39.	40.2	30.345	38.43	5	SW	0.010	0.013	b ₈ . V. CK. K.
4	44.1	43.9	30.391	44.13	2	SW	0.005	drop	0. V. S. KS.
5	40.7	43.	30.435	40.33	2	SW			0. V. S. KS.
6	40.	42.1	30.303	39.53	3	SW	0.0013	0.006	0. V. K. KS. CK.
7	36.2	38.	30.449	35.73	2 1/2	NbW	0.012	drop	0. VV. K. KS. S
8	34.4	38.3	30.493	33.63	1	NbE			0. V. S. KS. CK.
9	38.1	38.2	30.424	37.63	2 1/2	SSW			0. V. K. CK.
10	44.5	41.7	30.435	44.73	6	SWbW			0. V. K. KS. CK.
11	46.6	43.6	30.250	46.43	4	WSW			0. V. K. KS. S
12	47.6	44.3	30.320	47.43	3	W		0.041	0. VV. K. KS.
13	42.1	43.7	30.373	41.83	3 1/2	W	0.015	0.002	b ₁ . V. K. CK. C.
14	36.2	42.4	30.237	38.23	2	SWbW	0.056	0.062	b ₉ . m. CK. KS.
15	39.4	41.8	29.903	37.83	6	S	0.003	0.006	b ₄ . V. K. CK.
16	38.1	42.5	29.616	36.83	7	SW	0.050	0.220	b ₉ . V. g. CK
17	40.1	41.1	29.431	39.43	6	SW	0.045	0.166	0. V. K. KS.
18	49.1	47.2	29.103	49.23	9	SWbW	0.101	0.510	b ₃ . V. CK. C. KS.
19	39.3	42.1	29.646	37.13	6	SW	0.026	0.092	b ₆ . V. C. CK
20	49.9	45.8	29.472	49.23	10	SE	0.087	0.006	0. V. g. CK. S. KS. CK
21	46.3	45.1	29.481	46.13	5	SE	0.202	0.236	b ₁ . V. K. CK. (at 10 ⁴ now and here forth)
22	38.9	40.2	29.486	37.13	3	SW	0.045	0.780	b ₁ . VV. K. CK. Bar: heaving
23	44.3	43.9	28.830	43.83	6	W	0.633	0.600	b ₁ . VV. g. K.
24	42.8	41.9	29.371	42.43	6	SWbW	0.387	0.072	0. V. K. KS.
25	48.6	45.6	29.353	48.43	7	SW	0.060	0.019	b ₁ . VV. g. K. CK. Bar: heaving
26	36.2	39.6	29.270	36.33	6	SWbW	0.062	0.532	b ₃ . VV. g. K. KS. n. sleet on ground
27	38.4	40.9	29.386	37.83	6	SWbW	0.226	0.460	b ₈ . V. K. CK. C. (rain gauges partly frozen)
28	40.2	40.6	29.525	37.73	4	SW	0.130	0.015	b ₁ . V. CK. CS. C. (at 11 ⁴)
29	44.7	43.6	29.047	44.63	8	S	0.025	0.162	0. m. heavy rain n.
30	36.1	38.9	29.007	35.23	7	SWbW	0.092	0.336	b ₂ . VV. K. CK. snow on distant hills
31	38.9	37.9	29.048	32.13	8	SW	frozen	frozen	b ₁ . VV. K. CK. snow on ground Bar: heaving
mean	41.16	42.07	29.807	40.743			1.2777	4.356	
				39.50			2.8177		

1859	9 PM-				Winds		Max.	Min	mean dew-point =	
Jan 5	E	A	Bar:	Temp	Force	Direct ⁿ	T	T	mean humidity =	
1	41.2	43.	30.317	40.2 } 40.2 } 36.3 } 35.9 }	2	SSW	48.	39.	b v	CK fog in the north horizon
2	36.9	41.3	30.384	36.3 } 35.9 }	4	SSW	42.1	35.4	b ₁₀ v	
3	44.	44.	30.357	44.5 } 42.6 }	4	SW	44.	34.	o m	KS
4	42.9	44.6	30.407	42.6 } 40.9 }	1 1/2	SW	45.4	42.2	o. v.	KS.
5	40.3	42.2	30.393	40.9 } 39.4 }	1	SW	43.3	40.1	o. g.	KS.
6	40.3	42.	30.347	39.4 } 36.4 }	0	NbW	44.1	38.9	b, v.	KS. K.
7	34.3	39.1	30.535	33.9 } 30.9 }	1	NbE	40.8	33.4	o. g.	KS. K.
8	35.5	37.1	30.390	35.1 } 32.1 }	4	S	36.4	32.1	o. g.	KS. K.
9	42.4	40.8	30.514	42.2 } 41.8 }	3	SWbW	43.7	34.7	o. v.	KS. S.
10	46.1	43.2	30.302	46.6 } 43.6 }	6	WbS	48.6	41.8	b, v. g.	K. CK. c
11	47.5	44.1	30.284	47.4 } 46.3 }	3	W	49.9	45.4	o. v.	K. KS.
12	45.1	44.7	30.387	44.4 } 43.8 }	3 1/2	W	51.1	44.9	b. v.	K. CK
13	42.	44.	30.323	41.6 } 41.3 }	3	SW	45.8	41.2	b fog	CK
14	41.8	43.	30.103	41.4 } 39.3 }	3	SbE	44.3	36.4	o. v.	K. KS
15	47.1	45.4	29.593	47.1 } 45.2 }	7	SbW	47.8	38.8	o. v. g.	K. Bar: heaving
16	42.2	43.1	29.323	41.7 } 38.6 }	11	SW	47.9	38.4	b. vv. g.	K. CK & very much
17	48.1	44.4	29.129	47.6 } 47.3 }	9	SWbS	48.6	37.	b. v. g.	KS. K. n. & light rain
18	40.9	45.2	29.221	40.3 } 38.8 }	6	WbS	52.7	40.9	b. vv. g.	CK. K.
19	37.1	41.	29.709	36.8 } 35.4 }	5	SW	43.1	35.6	b. v.	c. CK. cs. s.
20	51.2	48.2	29.300	51.1 } 49.2 }	11	S	51.5	36.5	o. v. T-K	blustering
21	46.	47.8	29.287	45.4 } 43.2 }	8	SSW	53.	40.2	o. v.	K. KS.
22	37.1	39.8	29.407	36.6 } 35.1 }	5	S	46.7	35.5	b. vv. g.	KS. S
23	39.7	41.1	29.172	39.1 } 36.7 }	6	WbN	45.8	36.4	b. v.	KS.
24	48.	44.	29.551	47.7 } 46.4 }	5	WbS	49.6	38.8	b. v.	K.
25	35.2	43.1	29.153	34.4 } 33.6 }	6	WSW	51.4	35.	o. g.	K. KS.
26	39.6	40.7	29.245	39.1 } 38.1 }	6	SW	40.4	33.2	o. v. g.	K. KS. Bar: heaving
27	38.9	44.1	29.446	38.1 } 37.2 }	4	SWbW	42.8	36.1	b. v. d.	n. KS
28	40.7	41.6	29.495	39.6 } 39.1 }	4	SW	44.9	34.4	b. v.	S
29	37.1	40.3	29.029	36.4 } 35.4 }	7 1/2	SW	50.	35.4	b. v.	KS. (at 2 Pm. Bar = 28.830)
30	33.3	37.8	29.085	32.5 } 32.1 }	5 1/2	WbS	47.9	32.4	b. vv.	KS (anecd at 11 Pm)
31	37.3	39.1	29.495	36.4 } 35.1 }	2	NbW	47.8	31.4	b. v.	S
mean	41.27	42.57	29.796	40.817 39.393			46.42	37.28		

1859	10 Am.			Wind	Rain	
Feb 4	E	A	Bar:	Dir: Force	Square	Round.
1	37.	38.	29.657	5 SW	0.019	0. V. K. KS.
2	42.1	40.	29.225	7 1/2 Wb. S	0.010	0. V. K. CK.
3	36.2	38.2	29.930	2 NWbW	0.162	0.393 0. V. CK. C. CS. S.
4	46.6	44.3	29.103	7 1/2 SW	0.002	0.001 0. V. CK. K.
5	38.4	39.9	29.150	5 SW	0.008	0.049 0. V. CK. C. CS.
6	32.2	36.7	28.879	1 Wb. S	0.032	0.062 fog
7	31.1	35.9	28.997	2 SWb. S	frozen	fog
8	43.1	38.5	28.988	5 1/2 ESE	0.312	0.178 fog. much snow on ground - Hyg. frozen
9	45.3	41.1	28.746	6 1/2 SSE	0.215	0. m. K. n. drizzle
10	40.8	41.1	28.837	9 S	0.137	0.328 0. V. CK. CS.
11	43.	41.9	28.945	4 S	0.031	0.093 0. V. q. S. CS. KS.
12	42.1	41.6	29.387	3 E. S. S.	0.066	0. V. KS. CK. C. K. x
13	39.2	39.4	29.660	2 S	0.177	0.200 0. m. HS. (Bar: heaving)
14	42.3	41.7	29.670	3 W	0.001	0.009 0. m. S. CS.
15	49.8	45.4	29.653	7 SW	0.004	0.028 0. V. K. CK.
16	52.4	48.1	29.581	10 SWbW	0.020	0.110 0. V. K. KS.
17	45.5	45.2	29.804	6 WSW	0.041	0.070 0. V. q. K. KS.
18	42.3	42.5	30.120	3 Wb. S	0.023	0.135 0. V. K.
19	43.9	42.4	30.087	4 SW	0.033	0.053 0. V. CK. C. CS.
20	48.2	45	30.038	6 SW 1/2 S	0.031	0.192 0. m. K. KS.
21	48.7	45.5	29.906	5 1/2 SWbW	open	0.001 0. V. h. CK. K
22	45.2	45.9	30.104	6 WSW	open	0.001 0. V. h. q. K. KS
23	43.5	43.2	30.450	4 WS 1/2 W	0.127	0.255 0. V. K. KS. Nat horizon in W
24	43.8	43.	30.228	3 WSW	—	0. V. h. q. CS. K
25	47.2	45.	30.011	5 SW	—	0. V. h.
26	45.5	46.	29.424	4 WSW	0.084	0.246 0. V. q. m. KS
27	47	44.	30.016	4 WNW	0.184	0.246 0. V. q. v. KS. N from SW LN at 10.30
28	47.7	45.3	29.829	5 S	0.040	0.255 0. V. CS. KS. C. Halo
					0.028	0.015 0. V. q. KS Bar heaving
mean	43.22	42.32	29.597	sum	1.224	2.678
			41.10		1.437	

1859	10 Pm			Therm	Wind	Max:	Min:		
Feb 5	E	A	Bar:	Therm	Dir	T	T		
					Force	Direction			
1	39.3	40.4	29.237	38.6	6	Wb N	48.	34.1	o. g. heavy rain (at 10.15)
2	36.7	40.1	29.693	38.3	1	NWbW	48.	35.1	b. vv. KS.
3	40.8	40.1	29.759	36.1	6	SBW	47.9	32.4	o. g. q. H. KS.
4	38.7	40.9	29.183	36.2	5 1/2	SW	49.2	38.1	b. y. q.
5	34.1	39.3	29.069	36.4	2	SWb S	47.4	34.1	b. y. S in E. horizon
6	32.	37.1	28.977	33.7	1	NWbW	47.	29.3	o. g. n. snowing. Hyg. frozen.
7	35.8	36.3	28.955	31.3	2	SE	35.8	24.	o. v. KS. n. a little snow falling
8	41.	40.	29.003	31.2	5	SB E	43.9	35.2	o. v. K. CK.
9	37.4	40.1	28.817	40.6	8	SBW	50.2	36.7	b. vv. CK.
10	43.2	42.	28.869	39.7	5	S	46.	35.5	b. v. CK
11	42.9	42.5	29.085	36.8	3	SE	47.8	39.1	o. v. KS. K.
12	37.6	42.4	29.596	34.8	0	SE	46.2	37.1	fog. Visible & a few faint stars.
13	43.	42.3	29.622	34.8	3	SBW	46.1	32.1	o. v. KS.
14	41.9	42.6	29.805	23.1	5 1/2	SWb S	45.7	38.2	o. v. q. KS. K.
15	49.9	47.	29.609	41.5	5	SWbW	52.8	42.2	o. v. q. KS. (at 10.15) Bar. leaving
16	45.8	47.3	29.810	40.2	4	W	54.7	45.2	b. vv. c. c. s. CK.
17	39.5	43.5	29.874	42.8	4	W	46.5	39 -	b. v. c. CK q
18	39.8	43.4	30.215	42.8	4	Wb. N	46.1	35.5	o. v. K.
19	46.5	44.1	30.106	39.1	4	SW	50.1	36	o. v. KS
20	45.5	45.2	29.936	37.5	5	SW	49.5	43	o. g. KS
21	46.	47.3	29.962	36.4	2	SWbW	54.7	44	b. v. KS.
22	38.5	45.2	30.382	38.1	1+	W	47.5	38	b. y. S Aurora in N low down
23	39.9	45	30.326	37.9	2+	SW	48.	35.5	b. v. S. c. aurora in N low down
24	43.5	45	30.102	36.4	2+	SW	48.2	34.5	b. v. KS. c. g. N aurora behind clouds
25	46.2	46	29.787	41.3	3+	SBW	49.2	43-	o. v. KS. g. - q
26	44.5	44.5	29.652	42.9	3+	WNW	47.	41.5	b. v. KS q. Auroral with verten NW 1/2 N behind clouds
27	44.	45	30.050	41.3	2	SBW	49.3	40	o. g. KS traces of aur behind clouds
28	42.5	45.1	29.783	43.8	6+	SW	54	41.8	b. v.
mean	41.30	42.84	29.612	40.84			48.14	37.15	

1859	10 AM			Hyg.	Wind		Rain		
March	E	A	Bar.		Force	Direct ⁿ	Squ	Round	
♂ 1	45.8	44.4	29.976	45.3 } 42.8 }	3	SW	0.028 } 0.103 }	0.215	b.v. S CS K Round = 0.215
2	49.9	45.9	29.781	47.8 } 45.2 }	4	SW 6 S	—	0.006	o.v. KS. CS
3	51.9	48.2	29.897	51.4 } 50.4 }	3	SW	—	0.002	o.v. KS
4	54.8	50.2	29.972	55.7 } 53.7 }	3	SW	—	0.010	o.v. KS
5	53	51.	30.044	53.5 } 50.5 }	3	SW 1/2 W	—	0.021	o.v. h. KS
6	51.1	50.	29.939	51.2 } 49.2 }	5	SW	—	0.045	o.v. h. q KS
7	48	48.5	29.284	47.7 } 43.0 }	10	W 6 S	—	0.035	b.v. q. K; in squalls above 12, B. w. heavy
8	37.9	43.	29.553	37.9 } 35.9 }	6	WNW	0.069 } 0.242 }	0.411	b.v. q KS N. CS.
9	43.8	42.	30.231	43.2 } 39.5 }	2	WSW	0.0013	0.007	o.v. m. CS. Sleet in afternoon but not caught in squalls
10	45.1	43.8	30.008	45.1 } 41.7 }	4	S 6 W	—	0.001	o.v. KS
11	49.9	47.8	29.010	49.3 } 46.9 }	11 1/2	SSW	0.100 } 0.350 }	0.525	o.m. q. r. N. KS a very heavy gale
12	47.7	45.2	29.300	46.9 } 45.8 }	4	SW 1/2 S	0.028 } 0.076 }	0.296	o.v. m. q. r. KS N
13	46.2	46.5	29.285	46.2 } 42.8 }	3	W 6 S	0.090 }	0.314	o.v. KS
14	43.2	45.	29.236	43.4 } 41.4 }	4	E 1/2 S	—	trace	o.v. KS
15	42	43.2	29.300	41.5 } 37.1 }	9	NW	0.635 } 0.748 }	0.976	b.v. q. KS. K. N in East
16	50	46.	29.490	50.1 } 47.2 }	8	SW 1/2 S	0.001 } 0.015 }	0.033	o.v. q. KS
17	42	47.	29.085	41.6 } 40.2 }	3	WSW	0.125 } 0.222 }	0.307	o.v. m. r. KS
18	46	44.6	29.492	45.6 } 40.8 }	5	NW	0.037 } 0.053 }	0.070	b2-v. KS
19	47.3	43.0	30.031	46.8 } 44.2 }	6	SW	0.002 }	0.020	o.v. m. KS
20	48.5	46.2	29.734	48.5 } 45.3 }	10	SW 6 S	—	0.	o.v. KS blustering
21	41.8	43.6	29.865	41.6 } 38.5 }	4+	WNW	0.122 } 0.250 }	0.381	b3 v. h. K KS
22	47.9	43	30.246	48.0 } 43.5 }	3	NW 1/2 W	0.005 }	0.037	b2 v. K. KS C. CS CK (Horcheshnuta quite out)
23	50.	45.2	30.026	49.9 } 47.7 }	5	WNW	0.013 }	0.027	o.v. KS (Reg ^d at 10:25 AM)
24	52.	47.2	30.016	52.1 } 49.2 }	4	NW	—	—	o.v. KS Horizon & distance bright.
25	50.	47.5	29.932	49.9 } 46.2 }	5	WNW	0.001 } 0.002 }	0.009	b2 v. KS CK acutis
26	51.1	47.0	29.828	51.4 } 47.5 }	5	WNW	0.002 }	0.007	b3 v. K KS
27	50.4	49.2	29.587	50.0 } 48.9 }	3 1/2	SW 1/2 W	—	—	o.v. KS. KN. N
28	46.0	48.	29.128	45.7 } 45.7 }	1 3/4	NW	0.124 } 0.172 }	0.194	o.v. KN KS
29	43.9	44.9	28.897	42.8 } 39.8 }	3	WSW	0.022 } 0.034 }	open	b5 v. K. CK.
30	40.	42.2	29.328	39.1 } 36.3 }	7	W 6 S	0.035 }	0.087	b7 v. q. K.
31	37.	39.6	29.973	36.4 } 31.9 }	2	SW	0.002 }	0.002	b3 v. K strongly marked
mean	46.89	45.77	29.660	46.617 } 43.57 }		Stph	1.540 } 2.584 }	4.038	

1859

10 P.M.

Wind

Thermom.^{ys}

March	E.	A.	Bar.	Hyg.	Force	Direct ⁿ	Max	Min	
♂ 1	43.	46.	29.945	42.83 27.53	2	SW	51	39	6. v. g. SK. trace of Aurora
2	47.7	48.5	29.800	42.33	4	SW 6 S	54	45	4. g. SK faint trace of Do
3	52.	49.2	29.889	50.23	4+	WSW	56.5	47	0. g.
4	52.7	51.	30.010	52.23	5	SW 6 W	58	51.5	0. g. v. KS at 10 ^h 49 ^m
5	49.3	50.	29.981	49.33	5	SW 6 W	54.3	42-	0. g. slight drizzle
⊙ 6	50.6	51.	29.541	50.53	8	SW 6 S	54	48.5	0. v. q. KS light behind the clouds NW + SE
7	57.5	44.5	29.190	37.73	5	WSW	51.5	36	6. v. KS in NW, faint aurora
8	35.9	42.	30.010	35.73	5	NW	41.6	34	9. v. KS. diffused Aurora
9	39.8	44.	30.135	38.93	4	SW	45.7	31	6. v.
10	45	44.8	29.638	44.53	6	S ½ E	49	38.5	0. v. n. KS. N
11	43.5	46	29.253	43.73	8	SW	52	43	6. v. CS. KS
12	50.5	49.1	29.175	50.3 28.9	9	SW	53.5	41.8	0. v. q. KS Force up to 11 in squalls
⊙ 13	41.7	46.1	29.403	41.23	4	SW	51	41	0. v. CS. KS
⊙ 14	43.1	44.8	28.856	43.23	3	NE ½ E	54.3	38	0. v. m. KS
15	44.	44.9	29.485	43.83	4	SW ½ S	46.2	37	0. v. d. KS
16	49.1	47.3	29.234	48.83	10	S 6 W	53	42	0. v. q. KS
17	40.	45.	29.156	39.23	7	SW 6 S	51	35.5	6. v. KS in a streak to V
18	37.	44.	29.884	36.53	2	NW 6 W	48	36.5	9. v. CK moonlight E=37
19	45.	46.2	30.049	44.83	4	SW 6 W	52	34.2	6. v. KS
⊙ 20	43.8	45.8	29.671	44.23	4	W	50	42	6. v. C. CS N moonlight slight aurora W
⊙ 21	38.2	43.5	30.164	38.53	2	NW	46	35.5	6. v. BSK if aurora streamers. moonlight
22	45.1	45.5	30.183	44.23	4+	W 6 N	52.5	37	0. g. faint Aurora NW behind darkness
23	47.2	47.0	30.018	47.33	3	NW	48.5	43.8	6.3 CK CS
24	48.8	48.0	30.024	48.53	4	NW	53.8	46	0. g. dr "indie" of auroral arch NE to W
25	45	47.0	29.833	45.03	2½	W	51.8	45	6.3 CK strong aur. NW. black bank all round
26	48-	49.2	29.700	48.23	4½	WSW	54.3	44.4	6.2 K, K aurora. NNW. black cloud. streamer
⊙ 27	48.	49.0	29.336	47.83	6	SW	54.7	45.6	0. g. 3 bright aur spots black cloud
⊙ 28	38.1	46.4	28.955	37.13	1	N	50.8	38.4	0. v. n. light rain. ^{set 11.5 = 45.9}
29	33.8	44.4	28.963	33.23	3	SW 6 W	47.9	33.6	6.3 vv. KS. hail showers during the afternoon
30	31.	40.5	29.773	30.43	2	N 6 W	44.	30.9	6.3 vv. KS. fine aurora with streamers in NW
31	36.1	42.4	29.963	36.73	4	SW	44.2	28.4	0. v. K. KS.
mean	43.57	46.23	29.652	43.23 41.62			50.80	39.75	

1859		10 A M			Hys?	Wind		Rain		
April		E	A	Bar.		Dir.	Force	Square	Round	
						Force	Direction			
♀	1	37.9	39.1	29.605	37.3 36.5	10	S	0.025 0.097	0.123	0. m. 29. n. cold rain - Bar: heaving
	2	48.4	44.3	29.656	48.1 47.5	1	SWbW	0.205 0.550	0.920	0. m. d. n.
☉	3	53.5	49.1	29.746	53.4 53.1	5	SW	0.127 open	0.195	0. m. K.S. K.
	4	53.	49.8	29.837	53.3 52.3	3	SW	0.023 0.043	0.076	0. m. v. K.S.
	5	56.7	50.1	29.841	56.9 54.2	4	SWbW	0.023 0.026	0.027	b. YV. K.
	6	58.9	51.3	29.717	59.1 54.1	4 1/2	SSW	—	—	b. Y. K.S. S.
	7	58.8	54.2	29.622	58.2 54.2	5+	SSW	—	—	b. Y. 9. K. CK
	8	52.4	52.4	29.304	52.2 51.3	7 1/2	SbE	0.098 0.133	0.004	0. m. K. n. Bar: heaving
	9	56.	52.9	29.310	55.8 51.5	6	SWbW	0.077 0.112	0.147	0. Y. 9. K. Thunder in S. at 1.45 P.M.
☉	10	52.5	50.5	28.965	52. 47.1	4 1/2	W 1/2 S	0.160 0.162	0.218	b. YV. K. CK.
	11	44.8	48.3	29.157	43.9 40.1	4 1/2	NbE	0.036 0.032	0.058	b. YV. K. CK.
	12	47.3	46.9	29.375	46.1 42.3	3	SWbW	0.042 0.038	0.060	b. Y. K. K.S. CK.
	13	43.2	45.2	29.300	43.5 39.	4	SE	0.284 0.286	0.200	b. Y. K. CK. K.S.
	14	41.3	44.1	29.157	40.4 36.6	4 1/2	E	0.058 0.054	0.028	0. YV. K.S. K.
	15	42.3	42.9	29.237	42.1 38.1	4	W.NW	0.007 0.007	0.009	b. YV. K. strongly defined
	16	40.3	43.1	29.533	39.6 35.9	5 1/2	NW	0.003 0.003	0.007	b. YV. K. d. d. d. d.
☉	17	42.1	41.8	29.741	42.1 37.6	3	NbW	0.090 0.091	0.009	b. YV. K. d. d. d. d. CK
	18	42.5	42.4	29.725	42.5 37.3	2	NbE	—	—	b. YV. K. d. d. d. d.
	19	44.8	41.2	29.495	44.1 38.7	2	NW	—	—	b. YV. K. CK dispersed
	20	41.2	43.1	29.375	40.2 37.8	1	NbN	0.115 0.128	0.100	b. YV. K. CK
	21	41.5	41.7	29.488	41.4 36.7	3	N.NW	0.004 0.004	0.001	b. YV. K. CK. (snow showers in afternoon)
	22	40.4	40.4	29.610	40.7 34.7	2	NWbW	0.005 0.007	0.002	b. YV. K. strongly defined
	23	43.2	40.4	29.692	43.1 37.	3	SE	—	—	b. YV. K. CK. CS.
☉	24	45.9	41.6	29.722	45.4 38.2	4	NbE	—	—	b. Y. K. CK.
	25	47.1	45.	29.670	47.2 44.9	2 1/2	NbE	0.004 0.004	0.009	0. Y. K. K.S.
	26	48.4	48.	29.841	49. 47.	5	EbN	0.173 0.194	0.320	0. m. K.S.
	27	46.3	45.6	29.851	46.7 43.1	8	E	0.093 0.168	0.253	0. Y. 9. K.
	28	45.5	45.1	29.551	45.7 42.7	9	E	—	—	0. Y. 9. K.
	29	42.5	44.2	29.645	41.7 41.4	6	NbE	0.171 0.141	0.224	0. m. much rain. n.
	30	46.6	44.6	29.715	46.3 43.2	5	EbN	0.243 0.222	0.330	b. Y. K.
mean		46.84	46.64	29.549	46.59 43.19		sum	1.885 2.566	3.420	

1859	10 Pm			W	Wind		Therm ¹⁵			
April	E	A	Bar:	Wg.	Force	Direction	Max:	Min:		
1	47.1	44.6	29.403	47.4 46.4	6	SWbW	47.	34.4	0. g.	n. light rain.
2	51.5	46.8	29.781	51.3 50.3	4½	SWbW	54.	42.5	0. g.	N
3	52.6	50.	29.725	52.7 51.5	6	SW	56.3	50.6	0. g. g.	K.
4	49.7	50.1	29.787	50.7 48.7	2	SW	57.9	48.8	½ v.	KS. K.
5	53.7	52.5	29.795	52.1 52.5	5	SW	61.9	48.8	½ v.	KS. S.
6	57.	56.	29.655	57.1 49.4	8	S	67.1	50.	½ v.	stratitus. Bar: heaving -
7	53.1	55.1	29.595	53.3 51.3	4	S	63.	50.4	½ v.	S.
8	48.6	53.1	29.269	48.4 47.4	4	SWbW	61.	48.6	0. v.	K. KS.
9	48.7	52.1	29.187	48.2 46.9	4	SSW	58.7	48.5	0. v.	S. KS.
10	43.4	50.8	28.933	43.9 41.9	2	WSW	54.4	43.6	½ v.	K. CK.
11	43.3	47.6	29.443	39.5 35.4	2	NNW	47.6	39.9	½ v.	CK. KS.
12	38.1	46.5	29.210	37.1 36.6	1½	NbE	49.3	38.6	½ v.	K. CK. KS.
13	34.4	45.5	29.336	34.8 33.8	4	NE	47.7	33.9	0. v.	slut. n. KS.
14	35.5	42.4	29.158	35.4 32.4	4	NNbN	41.6	33.4	½ v.	K. CK. (at 11.30 ^{pm})
15	34.1	43.6	29.431	33.8 31.8	3	SWbW	47.2	32.9	½ v.	CK. CS diffused Aurora.
16	35.6	42.9	29.633	35.1 33.1	4	SWbW	44.9	31.4	½ v.	CK. CS. KS.
17	37.1	43.1	29.779	36.5 33.4	2	N	45.6	32.1	0 v.	K. KS. S
18	33.8	43.	29.621	32.5 31.1	0	NNE	46.4	34.8	½ v.	
19	35.6	44.2	29.397	34.3 34.	1½	EbS	50.9	30.5	½ v.	K. KS.
20	36.1	44.2	29.435	35.6 33.1	1	NbN	47.8	35.4	½ v.	
21	32.	42.6	29.585	30.5 29.9	1	NNbN	45.6	31.4	½ v.	magnificent streaming Aurora, covering three-fourths of the sky -
22	33.9	42.4	29.672	33.9 31.1	½	NbE	46.1	28.7	½ v.	auroral-arch in NNW horizon.
23	36.8	43.2	29.734	35.7 31.7	½	E	47.8	29.8	½ v.	gamm
24	43.9	44.7	29.713	43.4 39.7	8	NE	49.3	31.3	½ v.	KS. n in NE a few drops of rain.
25	43.1	44.3	29.723	42.6 41.8	6	EbN	50.1	40.9	0. g.	n. rain
26	43.6	46.4	29.937	44.3 43.1	6	E	51.6	42.5	0. g.	n. light rain
27	43.1	45.2	29.657	43.6 39.6	5	EbN	49.	42.4	0. g.	K. KS.
28	42.	45.1	29.556	42.3 40.	7	NE	48.	41.8	0. g. g.	d. n. KS.
29	42.8	44.2	29.685	42.4 41.	5	E	44.5	41.	0. g.	rain. n.
30	42.4	45.6	29.708	42.1 40.	3	NbE	51.4	41.9	½ v.	KS. S.
Mean	42.30	46.59	29.544	41.87 39.96			51.12	39.36		

1859	10 AM			Wind		Rain			
May	E	A	Bar.	Hyg	Temp	Dir	Square	Round	
1	47.2	44.1	29.753	47.2	3 1/2	N E b E	—	—	b ₃ VV. K
2	47.7	45.	29.915	47.5	2	N E b E	0.056	0.047	b ₃ V. K.
3	48.3	46.1	29.843	48.4	4	E b N	0.051	—	0. V. K. KS.
4	48.6	46.1	29.810	48.7	2	N E b E	—	—	b ₃ V. h. K. CK.
5	52.1	46.5	29.756	52.1	3	SS E	—	—	b ₃ V. K. CK. at 11 AM. a halo round ☉
6	58.8	50.	29.744	58.6	6	S	—	—	b ₂ V. K. CK.
7	51.4	51.1	29.513	51.4	11	S E b S	—	—	b ₁ V. K. CK.
8	57.8	48.9	29.940	57.3	3	SW b S	0.004	0.006	0 m. 99. n. rain Bar heaving
9	56.	50.2	29.987	56.4	6 1/2	S E b E	0.036	0.105	b ₅ V. K. CK.
10	54.9	51.8	29.960	54.8	4	S E	—	—	0. V. 9. KS. K. S.
11	58.	50.1	30.127	58.1	2	E b S	—	—	b ₁ V. KS. CS. S.
12	61.3	52.6	30.073	61.3	4	S b W	—	—	b ₄ V. h. K. CK.
13	60.9	53.2	29.961	60.6	3 1/2	E b S	—	—	b ₆ h. CS. CK.
14	59.9	54.3	30.025	59.7	4	S E b E	—	—	b ₁₀ h.
15	61.3	53.4	29.935	61.3	1 1/2	N W	—	—	b ₁₀ V. h.
16	61.3	55.6	29.896	61.3	2	E S E	—	—	b ₁₀ h.
17	60.	55.8	29.873	60.3	2+	W b N	—	—	b ₈ V. h. CS.
18	53.9	55.3	29.782	54.4	4	N b E	—	0.003	b ₁₀ h.
19	57.9	56.8	29.804	57.8	4	N N E	0.071	0.076	0. V. K. KS.
20	55.9	56.3	29.843	56.4	2+	N b W	0.068	0.001	0. V. 9. S. KS.
21	55.5	54.3	29.876	55.6	2	N	0.001	0.001	b ₃ V. K. CK.
22	54.7	53.9	29.987	54.7	1 1/2	N	—	—	b ₂ V. K. CK.
23	61.8	55.4	29.978	61.1	1	E N E	—	—	b ₈ V. K. dispersed
24	61.8	55.	29.851	62.3	0	N. N W	—	—	b ₆ V. h. K. 80
25	55.6	55.1	29.825	55.6	2	N W b N	0.127	0.128	b ₃ h. C. CK. K.
26	59.1	55.3	29.803	59.1	3	SW	0.127	—	b ₃ VV. K. CK.
27	65.6	56.1	29.823	65.6	2	S b E	—	—	b ₃ VV. K. CK. CS.
28	64.	57.9	29.760	64.9	2	N E	—	—	b ₁₀ V.
29	63.2	59.2	29.569	63.2	1 1/2	E b S	0.023	0.030	b ₁ h. S.
30	64.7	61.4	29.631	64.7	3 1/2	N E b N	0.030	0.074	b ₁ h. K. KS.
31	66.5	62.1	29.690	66.5	6	N E b N	0.056	—	b ₁ V. K. KS. CK. Distant thunder-storm S.
				59.			0.052	—	b ₅ V. K. CK. C
mean	57.60	53.19	29.849	57.57		sum	0.370	0.470	
				50.92			0.402	—	

1859	10 PM			Off ind		Bar		Therm			
May	E	A	Bar:	Hyg	Force	Dir ²	Max. T	Min. T			
1	39.8	45.2	29.835	39.1	1	NbE	50.6	35.9	b ₉ . V.	KS.	
2	42.6	47.	29.990	37.4	1+	NbW	53.	37.5	o v	KS	Traces of aurora behind clouds
3	40.8	47.	29.832	42.2	2	NbE	52.9	39.7	b ₁₀ . V.		
4	40.1	47.5	29.757	38.2	2	NbE	54.	39.4	b ₁₀ . V.		
5	43.4	50.1	29.760	40.1	2	SE	54.6	35.2	b ₉ . V.		S round horizon
6	48.8	51.7	29.706	37.1	5+	SE	61.1	43.3	b ₉ . V.		S. CS.
7	43.7	50.4	29.776	32.6	4	SW	60.1	43.9	b ₁₀ . V.		
8	47.2	51.9	29.997	43.3	4	S ¹ / ₂ W	61.6	40.3	b ₁₀ . V.		
9	51.4	52.6	29.928	40.8	3	SE	60.1	41.9	b ₁ . V.		KS. CS. at 4.35 PM. traces of halo
10	45.	53.	30.061	47.2	2	S	60.5	45.6	b ₉ . Y.		CS. at 10.30 ^m bright halo round D
11	46.4	54.1	30.121	46.2	0	SEW	63.8	41.1	b ₁ . Y.		which disappeared in a few minutes
12	49.6	56.2	29.988	43.3	1	NbN	65.2	43.6	b ₁₀ . Y.		K. CK.
13	53.5	56.4	29.987	49.1	2	ESE	65.1	43.5	b ₁₀ . h.		
14	46.4	56.2	30.000	46.2	2	SSW	62.6	47.	b ₁₀ . h.		
15	52.6	57.9	29.901	53.5	1	NNE	68.8	42.5	b ₉ . V.		CK.
16	50.2	58.1	29.877	47.7	1	S	68.3	47.4	b ₁₀ . Y.		
17	50.2	59.	29.830	44.6	2	NNE	68.	45.5	b ₉ . V.		S
18	50.4	56.6	29.787	50.9	2 1/2	N	59.1	46.6	o. Y.		S. KS.
19	49.8	56.	29.820	47.4	0	NNE	62.2	49.7	o. Y.		S. KS. (at 11 1/2 50 ^m)
20	46.4	55.5	29.860	47.6	2	NbW	61.3	46.7	b ₁₀ . Y.		
21	46.5	55.5	29.951	45.7	1	NbE	61.7	43.1	b ₁ . V.		H. CK.
22	48.5	57.7	29.995	43.9	2	NbW	64.2	41.6	b ₁₀ . V.		
23	49.5	57.7	29.914	44.1	1	ESE	66.3	46.4	b ₉ . Y.		CS
24	50.2	56.	29.821	45.3	0	NbE	64.7	43.6	o. Y.		KS. S
25	47.5	57.1	29.836	50.2	1 1/2	NNE	65.2	47.3	b ₃ . V.		S. CS. CK.
26	51.2	58.6	29.837	49.4	1	SW	71.2	47.7	b ₉ . V.		CS
27	53.	60.3	29.819	47.5	3	NNE	71.8	46.6	b ₅ . h.		CS. S
28	59.3	60.4	29.640	45.5	2 1/2	SESE	72.5	49.9	o. Y.		KS. S.
29	59.9	62.6	29.868	50.1	3	NE	70.8	53.6	b ₆ . Y.		KS. CS. S - sheet lightning at 11 PM
30	60.	63.1	29.667	59.3	2	NbE	74.7	45.	b ₃ . Y.		S. KS. C. KS (distant thunder. SE & NNE)
31	60.7	64.2	29.671	60.7	2	NbN	75.2	57.1	b ₃ . Y.		at 4 PM
mean	49.18	55.34	29.856	48.95			63.60	44.52			C. CS. S

NB. The External
 Therm. was broken:
 for the present. The dry
 bulb is recorded
 under E.

1859	10 Am			Wind		Rain			
June	E	A	Bar:	Hyg	Dir: Force	Square	Round		
					Force Direction				
1	62.8	62.8	29.815	62.8 58.4	ENE	—	—	0. h.	K.
2	58.4	59.7	29.728	58.4 54.8	4 1/2 NE	0.060 0.065	0.061	0. Y.	K. KS.
3	59.1	59.2	29.681	59.1 53.5	3 ENE	—	—	0. Y.	K.
4	58.1	60.2	29.667	58.1 57.4	2+ NNE	0.128 0.130	0.125	0. m.	Rain. n.
5	55.8	59.2	29.797	55.8 54.4	2 ENE	0.121 0.121	0.123	0. m.	Rain. n.
6	65.9	60.1	29.870	65.9 59.9	3 S E	0.088 0.088	0.093	6. Y.	K. CK.
7	64.7	61.1	29.887	64.7 58.3	7 1/2 NW	—	—	6. Y.	K.
8	66.6	64.4	29.790	66.6 61.8	2 1/2 NNE	—	—	6. h.	K. CK.
9	61.1	62.	29.809	61.1 55.1	3 NE	—	—	0. Y.	K.
10	58.5	60.2	29.732	58.5 53.	3 ENE	—	—	6. Y.	K. CK.
11	56.1	58.4	29.543	56.1 53.2	4 N E E	0.115 0.128	0.123	6. Y. 7.	KS. S. CS. CK.
12	58.7	60.	29.771	58.7 56.1	2 N 1/2 W	0.089 0.089	0.006	0. m.	KS. S.
13	57.4	59.1	29.890	57.4 52.9	3 1/2 NNW	0.083 0.090	0.059	0. Y.	K.
14	54.7	57.9	29.937	54.7 48.2	2+ NW	—	—	6. Y.	K. CK.
15	62.1	58.3	29.825	62.1 58.3	2 1/2 WSW	—	—	6. Y.	K. CK.
16	59.2	58.4	29.848	59.2 57.6	2 NNW	—	—	6. Y.	K.
17	62.6	58.6	29.930	62.6 50.7	2+ WNW	—	—	6. Y.	C. CS.
18	64.3	61.4	29.957	64.3 59.6	4 SWW	—	—	0. Y.	K.
19	62.3	61.5	29.865	62.3 58.8	2 1/2 SWW	—	—	0. Y.	K. KS.
20	58.1	59.2	29.805	58.1 51.2	3 NW	0.030 0.038	0.028	6. Y.	K. CK.
21	54.	56.9	29.661	54. 53.	4 1/2 SSW	0.132 0.161	0.153	0. Y. Rain.	K. K.
22	61.7	59.8	29.635	61.7 59.8	5 SW	0.032 0.052	0.071	0. Y. 7.	K.
23	54.4	57.3	29.813	54.4 50.4	3 W	0.033 0.051	0.057	6. Y. 7.	K. CK. n. Showery
24	57.1	57.	29.879	57.1 49.7	4 SW	—	—	6. Y. 9.	K.
25	66.7	59.6	29.564	66.7 59.8	7 SSE	—	—	6. Y. 7.	K. CK. CS.
26	67.	61.1	29.485	67. 61.1	5 SSE	0.152 0.150	0.164	6. Y. 7.	(at 11.40" Thunder in S.E. & heavy rain) K. CK.
27	60.4	60.	29.788	60.4 53.6	4 SW	0.032 0.039	0.031	6. Y. 7.	Bar. heaving K. CK.
28	60.7	58.2	29.995	60.7 53.7	2 N	—	—	0. Y.	(at 10.10") KS. S.
29	60.5	58.7	29.881	60.5 53.5	3 SW	0.232 0.222	0.227	6. Y.	K. CK.
30	65.4	59.3	30.003	65.4 56.9	3 S E E	—	—	6. Y.	CS. C. K. S.
mean	60.48	59.65	29.795	60.48 53.38		1.251 1.316	1.321		

1859	10 PM.			Therm.	Wind	Barom.	Therm.	Therm.	Therm.	Therm.
June	E	A	Barom.	Therm.	Dir	Force	T	T	T	T
1	57.3	61.4	29.767	57.33 56.43	SEbE	1½	66.4	55.	o. m.	rain. K.S. N.
2	55.4	61.4	29.715	55.4 52.6	NNE	3	64.8	55.	b. V.	K.
3	55.4	61.3	29.661	55.4 52.7	NbE	2	63.7	52.3	o. V.	K.S. S
4	53.1	60.4	29.757	53.1 52.9	SE	0	67.	53.7	b. light fog.	(Rept at 10 ^h 33 ^m)
5	56.7	60.6	29.818	56.7 56.2	SE	2	66.6	52.6	o. light fog.	
6	56.4	61.4	29.853	56.4 53.4	S	5	71.5	53.5	b. V.	S. CS. (at 10 ^h 20 ^m)
7	58.7	61.	29.854	58.7 58.1	ENE	2	73.5	53.	b. V.	S. CS. Avg = 58.7 55.63
8	58.1	64.4	29.811	58.1 54.3	ENE	2	72.1	52.9	b. V.	S. CS. Aurora at 11 PM -
9	54.8	63.	29.787	54.8 51.4	NE	4	66.9	52.1	b. VV.	S. CS.
10	51.1	62.1	29.641	51.1 49.4	N	1½	71.5	51.1	b. V.	S. CS.
11	54.6	61.3	29.666	54.6 52.1	NNE	1	64.2	50.2	o. V.	K.S.
12	57.	62.2	29.854	57. 56.5	N	0	69.3	54.	o. m.	K.S. K.
13	49.5	58.2	29.896	49.5 46.2	N	2	68.1	49.5	b. VV.	K. C. CS. CK.
14	49.1	59.7	29.927	49.1 46.5	NW	½	71.4	47.	b. VV.	C. CS. K.S. C.
15	50.5	60.4	29.809	50.5 47.8	NW	2	68.2	49.8	b. VV.	CS.
16	51.7	61.1	29.911	51.7 48.8	NWbN	1½	68.8	49.9	b. VV.	CK. CS. S.
17	59.3	63.1	30.000	59.3 56.6	NNE	2	71.5	47.3	b. VV.	K. K.S. CS.
18	60.8	63.1	29.932	60.8 56.1	WSW	2	69.6	54.	o. V.	K. K.S.
19	65.8	61.8	29.826	65.8 63.2	NWbW	1	65.3	56.4	b. V.	K. K.S. CK
20	49.2	60.1	29.838	49.2 46.2	WbN	2	66.2	50.7	b. VV.	S.
21	56.5	60.	29.727	56.5 54.4	W	2	63.9	47.5	o. VV.	K.
22	52.2	58.3	29.661	52.2 48.2	SWbW	4	66.8	52.3	b. VV.	K. CK. C
23	50.3	58.8	29.936	50.3 47.5	WbN	3	66.8	50.6	b. VV.	CK. K.S. CS. C
24	56.7	58.4	29.686	56.7 52.2	S	3½	63.1	47.4	o. VV.	K. K.S.
25	62.5	60.5	29.492	62.5 57.1	SE	2½	68.	55.2	b. V.	K. CS. K.S.
26	59.3	62.1	29.558	59.3 56.3	SE	5½	72.	57.1	b. V.	K. CK.
27	52.2	61.3	29.994	52.2 47.9	SWbS	2	71.3	53.	b. V.	
28	50.4	59.3	29.883	50.4 50.3	NE	1	65.2	47.	o. m.	rain. n.
29	54.1	61.	29.968	54.1 51.5	SEbS	3	68.6	52.1	b. V.	CK. (at 11.0 ^m)
30	56.3	63.1	30.032	56.3 53.4	SEbS	1	72.2	50.6	b. V.	S. CS.
mean	54.81	61.02	29.808	54.81 52.12			68.15	51.96		

1859	10 A.M.				Wind		Rain		
July	E	E	Bar.	Hyg.	Force	Direction	Square	Round	
♀ 1	65.4	60.1	30.033	65.4	4	E b N	—	—	6. YV. CS.
2	62.4	62.2	30.056	62.4	4	E N E	—	—	6. Y. K. CK.
⊙ 3	60.4	62.1	29.947	60.4	3	N E b E	0.026	0.036	0. m. KS.
4	68.2	63.1	29.967	68.2	3	S b W	0.038	0.039	6. W. K. n. a little rain
5	69.	63.2	30.135	69.	4	W S W	0.030	0.029	6. YV. K.
6	67.5	63.6	30.159	67.5	3	S W b S	0.122	0.174	6. YV. K. CK.
7	64.4	64.1	29.997	64.4	1 1/2	W	0.281	0.707	6. Y. K. CK. KS
8	61.9	62.9	29.087	61.9	3	S W b W	0.203	0.001	0. Y. K. KS.
9	61.	62.8	30.125	61.	0	W S W	—	—	0. Y. K.
⊙ 10	68.8	62.5	30.073	68.8	2	S W b S	—	—	6. Y. K. CK.
11	73.4	65.	29.965	73.4	3	S	—	—	0. Y. S. CS. KS.
12	64.2	65.5	29.985	64.2	1	W	—	—	6. YV. K. CK.
13	65.5	65.	30.050	65.5	2 1/2	N W b W	—	—	6. YV. K.
14	63.9	62.9	30.178	63.9	2	S W b W	—	—	0. Y. K.
15	65.	64.2	30.034	65.	3	S W b W	—	—	0. Y. K. KS.
16	69.4	64.4	30.102	69.4	4	S W	—	0.007	6. Y. K. KS.
⊙ 17	69.4	66.4	29.827	69.4	4	S W	—	—	0. Y. K. KS.
18	53.7	61.8	29.663	53.7	2	N b E	0.017	0.015	0. m. rain. n.
19	60.	61.4	29.648	60.	3	N b E	0.018	0.005	0. m. KS. n in N E.
20	66.1	63.	29.860	66.1	2 1/2	N N E	0.051	0.050	0. Y. KS. K.
21	66.7	63.6	29.895	66.7	2	N E b E	0.014	0.014	0. m. KS. S.
22	58.1	62.2	29.808	58.1	2 1/2	E N E	0.221	0.184	0. Y. light rain - KS. S. n.
23	64.7	62.2	29.813	64.7	3	N b E	—	—	6. Y. K. CK.
⊙ 24	65.2	61.7	30.028	65.2	0	W	—	—	6. W. K. CK.
25	67.3	64.2	29.922	67.3	2 1/2	W S W	—	—	0. Y. K. KS.
26	69.9	64.	29.905	69.9	3	S W	drops	0.001	6. Y. C. CS. S.
27	66.9	65.9	29.800	66.9	2	W b S	0.030	0.043	6. Y. C. CS. KS. K.
28	65.5	64.5	29.845	65.5	4	S W b W	—	—	0. Y. K. KS. S.
29	62.5	63.2	29.957	62.5	1	W	0.024	0.023	0. YV. K. KS.
30	65.4	61.3	29.732	65.4	5	S E	—	—	6. YV. K. CK. S.
⊙ 31	62.	62.1	29.133	62.	8	S W b W	0.361	0.568	6. Y. 99 K. n. in SW Bar heaving
mean	64.96	63.26	29.894	64.96			1.807	1.849	

1859	10 P.M.			W	Wind		Max:	Min:		
July	E	A	Bar:	Wgts	Force	Dir	T	T		
1	57.3	64.2	30.059	57.3	3	N E b E	71.4	52.8	b ₃ . VV.	CK. C. S (at 10 ^h 15 ^m)
2	58.4	63.5	29.977	58.4	2 1/2	E b N	65.6	53.5	o. V.	K.
3	59.2	63.4	29.935	59.2	0	S E b E	64.6	56.7	o. m.	rain - n.
4	58.9	62.1	30.023	58.9	3	SSW	72.6	58.4	b ₃ . V.	K. CK. KS. (Thunder in NW at 4 P.M.)
5	59.1	65.4	30.158	59.1	2	N N E	74.	57.6	o. m.	rain n - KS - a blue patch in NW
6	60.	65.8	30.076	60.	0	N N E	72.2	56.2	o. m.	heavy rain -
7	57.6	65.	30.077	57.6	2	W 1/2 N	72.8	57.3	b ₁ . V.	K. KS. CK. S.
8	59.7	64.	30.121	59.7	1	W	68.7	57.	o. V.	K. CK.
9	60.1	63.4	30.085	60.1	1 1/2	SW b S	69.4	59.	o. V.	K. KS.
10	62.6	65.3	30.065	62.6	2 1/2	SSW	75.4	54.	b ₃ . V.	C. CK. CS. K
11	68.	68.3	29.793	68.3	7	SW	78.8	60.9	b ₃ . V.	CS.
12	56.1	66.1	30.042	56.1	1 1/2	N E b E	83.8	56.8	b ₂ . VV.	CS. CK (at 10 ^h 30 ^m)
13	54.9	65.1	30.189	54.9	0	NW	76.5	54.5	b ₆ . VV.	S. CS. C.
14	60.1	65.1	30.067	60.1	2	S b W	72.4	53.4	o. V.	S. KS. (at 11 ^h 10 ^m)
15	60.7	66.	30.118	60.7	2	W b N	76.7	55.9	b ₁ . V.	S. KS.
16	67.	68.	29.973	67.	1	W	76.6	58.1	b ₁ . V.	CK. K.
17	56.1	64.8	29.751	56.1	3.	N E b N	75.	56.1	o. V.	KS. S.
18	56.2	61.3	29.656	56.2	4	N E b N	58.5	53.7	o. m.	KS.
19	60.	63.6	29.727	60.	4	E b N	70.8	56.4	b ₃ . V.	C. CK. K.
20	61.7	65.1	29.889	61.7	2	N E	73.1	58.6	b ₃ . V.	S.
21	62.1	65.	29.823	62.1	2	N b E	70.6	57.9	o. V. m.	KS. S (a very heavy shower at 1 1/2 PM)
22	57.5	64.1	29.827	57.5	1	N b E	69.8	57.9	o. m.	KS. S
23	57.7	64.9	29.965	57.7	1	N 1/2 E	70.5	55.1	b ₁ . V.	K. CK. KS.
24	60.2	66.	29.874	60.2	1 1/2	SSW	73.8	51.5	o. V.	KS. S
25	61.8	65.2	29.940	61.8	2	NW b W	71.5	58.4	b ₁ . VV.	KS. K. S.
26	64.2	66.2	29.740	64.2	5	SW	74.6	56.9	o. V. g.	KS. S
27	59.3	67.	29.896	59.3	2 1/2	SW b W	72.9	50.9	b ₁ . V.	KS. CS. S
28	59.3	64.8	29.910	59.3	1	W b S	68.6	58.4	o. V.	KS. S.
29	54.2	62.1	29.928	54.2	2	E. N E	70.	54.7	b ₁₀ . VV.	
30	61.1	64.2	29.230	61.1	5	S	68.2	47.5	b ₈ . V. g.	KS. CK.
31	52.8	62.	29.360	52.8	4 1/2	SW	66.1	52.7	b ₉ . VV. g.	S
mean	59.48	64.74	29.914	59.48			71.60	55.73		

1859	10 A.M.			Hygr	Wind	Rain			
August	E	A	Barom.		Force	Direction	Square	Round	
1	60.1	60.2	29.452	60.1	4	WSW	0.041	0.067	6. yr. g. K.
2	64.9	60.2	29.745	64.9	4	SWbW	0.072	0.080	6. yr. K. & in SW
3	63.	62.9	29.500	63.	3½	SSW	0.137	0.164	0. v. rain K.
4	61.5	59.4	29.579	61.5	3	WSW	0.231	0.276	6. yr. K. CK. CS.
5	62.6	59.1	29.724	62.6	3	WbS	0.278	0.280	6. yr. g. K.
6	60.3	58.3	29.772	60.3	2	SW	0.097	0.097	6. v. KS. C. CS. KS.
7	58.7	58.6	29.645	58.7	3	NTW	drops	0.001	0. v. KS. S.
8	60.4	58.5	29.782	60.4	2+	NbE	—	—	6. v. K.
9	58.4	57.4	29.938	58.4	2	NbE	—	—	6. v. K. CK.
10	65.2	59.4	29.950	65.2	2½	S	—	—	6. v. CS
11	60.1	60.5	29.673	60.1	6	SSW	0.023	0.056	0. m. g. rain. K.
12	65.4	58.3	29.712	65.4	2	SSW	0.011	0.029	10. v. K. CK. KS.
13	65.	63.6	29.487	65.	4½	SWbS	0.360	0.487	0. v. g. K. KS.
14	63.5	60.	29.621	63.5	3	SW	0.038	0.051	6. v. KS. K.
15	60.3	58.	29.591	60.3	1	W½N	0.106	0.126	4. v. K. KS. C
16	59.6	60.	29.903	59.6	4	SW	0.114	0.100	0. v. KS. g
17	65.4	62.	29.940	65.4	4½	SW½W	0.133	0.210	0. v. g. d. KS. N
18	65.9	62.8	29.820	65.9	6	SSW	—	—	0. v. m. g. KS
19	60.	61.	29.861	60.	1	NbW	0.710	0.700	0. m. g
20	64.2	63.9	30.080	64.2	3	WbS	0.206	0.200	6. v. K. CS
21	63.	62	30.215	63.	2	NWbW	—	—	6. v. h. K. CS
22	63.5	64	30.177	63.5	1½	SWbW	—	—	6. v. h. (At 10 ^h 35 ^m)
23	66.8	64.2	30.042	66.8	2	SSW	—	—	0. v. h. KS
24	66.2	64.2	29.826	66.2	1	SWbS	—	—	6. h. KS sky covered but blue seen thru
25	65.9	64	29.600	65.9	1	NW½N	—	—	4. h. CK. K
26	62.4	63.5	29.663	62.4	1	NTWbW	—	—	6. v. KS B. CS.
27	64.2	63.8	29.666	64.2	4	SWbW	—	—	6. v. K. KS. CCS (Registration at 11.35 ^m AM)
28	59.1	61	29.824	59.1	4	SSW	0.078	0.073	6. v. K. KS
29	56	61	29.345	56	4	W	0.080	0.178	6. v. g. KS. N in NE
30	56.5	58.5	29.214	56.5	7	W	0.090	0.125	6. v. g. KS. N at south hor
31	52.3	57.	29.363	52.3	6	W	0.089	0.103	0. v. g. KS. N
mean	61.95	60.88	29.733	62.18		sum	2.8937	3.403	

1859	10 P.M.				Wind		Max:	Min	
August	E	A	Barom:	Hyg ^m :	Force	Direction	T	T	
1	51.2	60.7	29.699	51.2 49.3	2	SWbW	64.8	52	b ₉ . VV. KS in N
2	57.6	62.1	29.689	57.6 56.3	4	SSW	70.5	51.	b ₄ . VV. KS. S (at 11.40 ^m)
3	52.8	61.5	29.587	52.8 50.5	2½	SW	67.2	53.8	b ₁₀ . VV. very heavy showers during day.
4	53.6	61.1	29.654	53.6 52.2	2	WSW	65.6	50.5	b ₁ . Y. rain n. KS. S. (rest at 8.40 ^m)
5	52.4	60.1	29.818	52.4 50.6	2	SW	65.	50.8	b ₆ . Y. K. KS
6	53.6	61.4	29.720	53.6 52.1	1	NbW	69.1	51.8	b ₆ . Y. S
7	54.3	59.6	29.635	54.3 51.6	2	NbE	69.7	50.4	b ₀ . Y. K. KS.
8	57.4	59.3	29.883	57.4 54.3	0	NbE	67.8	57.4	b ₉ . Y. CS.
9	52.9	61.8	29.967	52.9 51.2	0	SE	67.7	46.3	b ₉ . Y. CK.
10	58.	61.9	29.823	58. 56.9	6	S	68.5	47.8	b ₆ . Y. q. K. KS. S
11	55.	61.4	29.709	55. 52.7	2½	SWbW	69.	55.5	b ₉ . Y. C. CS.
12	64.	63.5	29.593	64. 62.1	6	SbW	70.4	52.1	b ₀ . Y. q. K. KS. S
13	54.5	63.	29.633	54.5 52.3	3	SW	71.9	54.8	b ₁₀ . Y.
14	54.8	61.	29.589	54.8 50.2	2	SSW	66.	51	b ₉ . Y. K. in Whorion
15	54.5	61.	29.863	54.5 52.5	2	SW	68.2	48	b ₉ . Y. KS. K {now the new Kew thermometer}
16	60.1	61.	29.885	60.1 60.9	5	SW	64.5	53	b ₀ . Y. g. q
17	64.5	63.8	29.873	64.5 61.8	5+	SbW	66	60.1	b ₀ . Y. E is dry this of the Hyg
18	56.9	63	29.785	56.9 54.7	2	WbN	70	57	one being prepared for fixing
19	59.5	62.2	29.978	59.5 56.2	2	N	66.5	54	b ₀ . Y. KS. C
20	54.2	63	30.148	54.2 52.9	3	WSW	69.8	54	b ₉ . Y. KS. C
21	57.	65	30.220	57. 56.6	1½	NWbW	70.2	55	b ₉ . Y. h
22	59.4	66.5	30.112	59.4 57.5	1	W½S	74.5	54.5	b ₁₀ . Y. h near Hor; faint Aurora NW
23	58.3	66.2	29.910	58.3 56.0	1	NW	73	52	ng clouds; a thick bank of fog all round horizon; stars dim
24	62.2	66.	29.681	62.2 57.4	2	SbW	73	52	o. g. KS. Kew thermom.
25	56.2	64.	29.660	56.2 54.6	3	NbE	70	54	o. v. KS - indic of Aurora NE
26	57.2	63.	29.697	57.2 54.5	0	NWbN	69.5	56	o. d
27	54.7	63.1	29.741	54.7 52.3	1	WSW	67.2	49	o. g
28	55.	61.2	29.655	55. 52.9	5	S½E	64.5	48.5	b ₅ . Y. q. KS Faint Aurora in NW
29	52.6	59.2	29.149	52.6 50.2	6	SW	62	53	o. g except at N when there seems a powerful Aurora behind cloud
30	49.8	57.	29.326	49.8 48.2	4	W	59.2	49	o. g. N
31	49.2	56.5	29.372	49.2 48.1	4	W½S	58.5	48.5	o. v. KS
mean	55.63	61.94	29.744	55.82 53.96			67.79	52.16	

1859	10 A. M.			Hyg?	Wind		Rain			
September	E	A	Bar		Force	Direction	Squall	Amount		
24	1	54.4	57.	29.387	58.9 50.2	4	WNW	—	0.001	b. v. K KS. S
	2	54.1	56.2	29.476	55.2 52.8	3	SBW	—	—	o. m. KS. d
	3	57.5	55.5	29.650	58.1 53.3	4	SW	—	—	b. v. q. KS. K
o	4	55.9	55	29.898	56.2 50.2	3	W S S	0.059 0.052	0.055	b. v. K
+	5	56	54.1	29.918	56.9 52.3	4	SE E	Trace	Do	o. v. q. KS (at 10 ⁴ .43 ^m)
	6	60	58	29.106	60.9 55.9	5	SW S S	0.358 0.421	0.575	b. v. q. KS.
	7	55.2	56.2	29.639	56.2 52.1	4	WSW	0.231 0.305	0.327	o. v. q. KS
	8	59.8	57.5	29.668	60.4 57.2	2	WSW	0.150 0.182	0.180	o. v. CK. K. KS
	9	55.8	57.2	29.366	58.5 53.2	6 to 9	WSW	0.219 0.266	0.343	b. v. q. K. KS
	10	52.5	55	29.920	53.3 50.3	3	W S N	0.107 0.146	0.157	b. v. q. d. KS. N in SW
o	11	58	56.5	30.164	58.8 53.5	2	W	0.002 0.006	0.010	b. v. K. KS
	12	60.3	57.5	29.888	61.1 56.4	5	S	—	—	b. v. q. KS. CS
	13	53.2	56.1	29.420	53.7 51.2	4 3	SE	0.460 0.518	0.591	o. Y. H.
	14	55.4	56.4	29.670	55.6 51.2	3	SE E	—	—	b. Y. K. CK.
	15	52.4	55.	29.400	53.3 52.1	3	SE E	0.074 0.076	0.076	o. m. rain. n.
	16	58.9	54.8	29.621	56.2 52.6	4	NE E	0.230 0.256	0.219	b. v. K. CK.
	17	56.2	54.3	29.879	55.7 52.7	0	NE E	0.001	0.003	b. v. K. CK.
o	18	57.	55.2	29.732	56.8 52.0	3	SW S W	—	—	o. Y. H.
	19	53.9	53.8	29.764	54.1 50.4	2 1/2	WNW	0.063 0.070	0.068	b. Y. K. CK.
	20	51.9	52.	29.562	52.3 50.	3	SW S	—	—	o. v. light rain. n. KS. S.
	21	53.5	51.9	29.161	53.6 49.1	2 1/2	SW	0.030 0.044	0.042	b. Y. K. CK
	22	54.9	53.	29.356	53.2 51.2	3	WNW	0.058 0.075	0.095	b. Y. K. CK.
	23	58.2	54.5	29.307	58.3 56.3	3	SBW	0.008 0.006	0.008	o. m. KS
	24	60.8	58.	29.333	60.4 56.4	3	SBW	0.628 0.820	0.755	o. Y. KS. K. S
o	25	58.1	57.9	29.357	59.6 57.1	5	SBW	0.001 0.004	0.024	o. m. heavy rain n.
	26	56.1	55.1	29.578	56.4 53.1	4	SW S W	0.178 0.211	0.192	b. Y. K. CK.
	27	53.4	54.9	29.768	53.6 50.1	4	SSW	0.002	—	b. Y. C. CS. S
	28	54.1	56.9	29.391	54.6 50.6	4	SSW	0.098 0.126	0.052	b. Y. K. CK
	29	53.1	53.9	29.219	53.2 51.4	6	WSW	0.333	0.460	b. Y. K. CK.
	30	53.6	53.1	29.461	53.2 50.6	1	WNW	0.034 0.041	0.036	b. Y. K. CK. C. CS.
mean		55.71	55.42	29.578	56.15 52.72			3.449 4.010	4.269	

1859	10 P. M.			Wind		Thermometer				
September	E	A	Bar	Hyg?	Force	Direction	Max	Min		
4	1	50.	54.2	29.543	50.2 49.3	3	W 6 S	59.	49.	6. K.S. - S. dusky
	2	45.8	57.	29.603	48.2 48.5	2	W 6 S	60.8	47.	6.10. Y Bright Aurora from NE to WSW
	3	49.	56.8	29.790	49.8 47.4	3	WSW	61.5	45.	0. Y. K.S. evidently strong Aurora as last night
5	4	45.5	57.	30.013	46. 45.	1	W 6 S	59.	45.	6.10. (specks of K & N) V. Aurora arch and streamers
	5	53.2	55.3	29.545	53.2 53.2	9	SW 6 S	61.2	41.8	0.9. Y. Y.
	6	53.	57.	29.448	53.2 53.2	6	SW 6 S	62.5	53	0. Y. Y. K.S.
	7	55.	57.	29.641	55.5 54.2	4	SSW	61.2	52	0. Y. K.S.
	8	55.1	57.8	29.332	55.5 55.8	10	SSE	62.2	53.5	0. Y. Y. K.S. N
	9	48.2	56.5	29.720	48.2 47.9	5	SW	61.8	49.5	0. Y. Y. Y. K.S. N
	10	51.1	57.	30.067	51.8 50.3	4	WSW	61.	46.	6. Y. K. K.S.
6	11	51.2	58.2	30.113	52.1 50.5	2	SW W	63.9	50.	0. Y. K.S. CS
	12	54.6	57.7	29.505	55.1 53.9	10	SS E	62.9	49.6	0. m. Y. Y. heavy rain n.
x	13	52.	56.3	29.577	52.7 50.2	4	NE	59.6	50.4	6. Y. Y. K. CK. at 11 ^h 35 ^m
	14	46.4	56.9	29.601	46.2 45.2	1	E 6 S	59.6	47.	6. Y. C. CS. halo round
	15	50.3	58.	29.420	50.1 50.1	3	NE	56.6	44.8	6. Y. C. CS.
	16	51.1	56.6	29.785	51.9 50.6	1	N	61.1	48.4	0. Y. K.
	17	52.	56.3	29.837	52.9 50.9	4	SW W	60.8	45.3	0. Y. K.S. S
7	18	48.9	55.4	29.695	49.7 49.3	1 1/2	WSW	59.4	50.2	0. Y. K. S.
	19	47.4	54.7	29.782	48.2 46.7	2	WSW	59.1	47.1	6. Y. K.S. S.
	20	47.6	53.8	29.355	48.4 46.5	3	SW	59.1	48.	0. m. K.S. S.
	21	48.8	53.1	29.059	49.3 47.3	3	W	56.6	43.6	6. Y. K.S. S. CS.
	22	46.1	54.	29.428	47.2 45.9	2 1/2	SSW	60.4	46.9	6. Y. S
	23	58.6	58.	29.313	59.3 58.8	4 1/2	SSW	64.5	46.6	6. m. K.S. S
	24	56.1	59.1	29.437	57.1 55.2	5	SW W	64.9	57.	6. Y. Y. S. Aurora in N. greenish: with waves & streamers.
8	25	50.2	56.	29.415	50.9 50.	4	SW 6 S	64.6	51.2	6. Y. S. diffused aurora
	26	45.4	54.6	29.711	46.4 45.	2	SW	60.5	47.	6.10. Y.
	27	53.6	56.	29.545	52.4 52.4	7	SS E	60.	43.5	0.8. K.S.
	28	47.9	54.7	29.128	48.2 47.5	4 1/2	SSW	60.2	48.5	6. Y. Y. S.
	29	48.2	53.1	29.413	48.7 48.4	3	SW 6 W	60.2	47.3	6. Y. S. at 10 1/2 N
	30	53.9	56.2	29.421	54.5 53.8	1 1/2	E	59.4	45.1	0.9. drizzle. n.
mean		50.51	56.11	29.574	51.46 49.94			60.62	47.98	

1859	10 A. M.			Wind	Rain	
Oct	E	A	Barom.	Force	Direction	Amount
1	58.2	56.9	29.413	58.5	2 1/2 S	0.061
2	53.6	54.1	29.811	57.5	4 SSW	0.076
3	62.3	59.8	29.700	53.1	4 SSW	0.002
4	60.1	59.8	29.540	52.1	3 1/2 S	0.094
5	55.2	55.6	29.691	60.1	6 SW	0.020
6	58.5	55.6	29.835	60.7	3 SWbS	0.087
7	57.4	56.2	29.581	59.3	3 EbbN	0.005
8	58.7	57.3	29.674	58.4	3+ SSE	0.147
9	54.1	54.6	29.760	58.3	0 SWbS	0.004
10	55.2	57.5	29.576	52.1	5 E	0.001
11	52.1	53.6	29.485	51.5	2 1/2 ENE	0.011
12	54.7	55.1	29.531	52.5	1 E	0.015
13	54.3	54.1	29.620	53.2	1 ESE	0.011
14	53.7	54.1	29.527	53.5	1 E	0.049
15	49.1	53.8	29.468	54.3	1 NE	0.008
16	49.6	50.7	29.370	49.3	1 NNE	0.002
17	49.9	52.1	29.533	49.9	1 1/2 SSW	0.066
18	53.1	53.7	29.830	49.4	3 1/2 ENE	0.019
19	52.1	52.6	29.754	53.9	0 ENE	0.077
20	46.9	53.1	29.415	51.3	2 N	0.066
21	34.2	45.6	29.330	46.2	1 1/2 NNE	0.019
22	35.6	49.5	29.354	34.1	2 WbN	0.077
23	37.7	41.1	29.225	34.4	1 W	0.077
24	31.4	38.5	29.230	31.6	0 W	0.077
25	29.3	38.9	29.300	31.3	0 W	0.077
26	40.6	40.8	29.210	28.6	3 1/2 NNE	0.006
27	39.2	40.1	29.581	40.8	3 WbS	0.006
28	40.6	42.4	29.270	36.4	0 SSW	0.174
29	40.7	47.1	29.173	41.1	3 WNW	0.590
30	38.2	39.8	29.185	38.4	0 NNE	0.008
31	40.9	39.5	28.973	37.7	4 ESE	0.004
Mean	48.29	50.39	29.482	48.50	Sum	1.465

1859	10 P. M.			Hyg.	Wind		Thermometers		
October	E	A	Barom:		Dir:	Force	Max:	Min:	
					Force	Direction			
1	50.5	57.	29.731	51.5 49.8	2	W	62.1	52.	0.9. KS.
2	59.7	58.3	29.741	60.5 58.8	5½	SSW	62.5	49.6	0.9.9. KS. K.
3	60.3	61.	29.553	61.3 60.	3	SS E	66.6	59.	0.9. KS. K.
4	51.1	57.1	29.646	52.8 49.8	4	S	62.4	52.4	6. V.
5	49.6	55.9	29.827	50.4 48.8	3	SW	60.1	51.	6. V. KS. CK. S
6	46.5	56.5	29.724	47.4 47.0	2	ESE	61.5	48.	6. V.
7	57.1	57.4	29.565	58. 56.4	5	SS E	60.9	47.9	6. V. K.
8	50.1	58.	29.765	51.1 50.3	1½	SWbS	63.7	52.	6. VV. CK. C
9	54.3	57.4	29.674	55.1 54.6	3	NNE	59.4	47.	0. m. KS.
10	51.7	55.6	29.549	52.3 49.6	3	ESE	57.7	52.4	6. V. K.
11	48.0	54.	29.474	48.7 47.9	2	ENE	44.5	55.2	0. V. m. CK
12	49.7	55.5	29.592	50.5 49.5	1	SE	60.3	48.6	6. V. K. KS
13	48.2	55.	29.573	48.9 48.8	1	EbS	59.	48.9	6. m. m. CK. C. CS
14	50.1	54.7	29.491	50.9 49.6	1	NebE	58.3	46.6	0. V. m. K. KS.
15	45.2	53.7	29.424	45.5 45.3	1	NebN	56.	46.6	6. V. C.
16	49.9	53.	29.361	50.4 49.4	½	NNE	55.4	42.	0. V. CS. KS.
17	52.	53.9	29.737	52.7 52.1	3	EbN	58.6	44.9	0. m. KS.
18	48.6	53.2	29.811	49.2 48.4	0	ESE	58.3	50.	0. V. KS. K.
19	49.7	54.5	29.600	50.5 49.7	2+	NbE	58.6	46.2	0.9. K. KS
20	36.7	48.	29.387	37.1 35.	2	NbW	51.8	37.5	6. V. K. KS. S
21	31.1	43.1	29.338	31.3 32.	1	NWbW	40.2	32.1	6. VV. KS. Aurora
22	29.	41.6	29.277	29.2 29.2	1	WbS	40.7	30.4	6. VV. Auroral arch.
23	30.1	38.7	29.196	30.6 30.2	1	NWbW	42.5	29.9	6. V. S. mercurio frozen
24	31.4	40.8	29.279	31.8 31.4	0	WbS	36.2	28.1	0.9. dense fog.
25	32.	38.5	29.208	32.4 31.8	1½	NbE	34.9	28.9	6. V. K. Kb.
26	31.7	41.3	29.448	32.1 30.7	2½	W	44.3	32.4	6. VV.
27	38.8	42.	29.523	39.2 36.7	3	SWbS	45.3	30.	0.9. KS.
28	34.6	40.7	29.045	34.9 34.4	2½	WbS	41.8	34.7	6. V. S.
29	33.7	41.1	29.343	34.2 33.4	2	NW	46.6	34.7	6. V. S. KS.
30	33.	40.6	29.062	33.4 32.1	2½	NebE	42.9	32.1	6. V. KS.
31	43.4	43.2	28.281	43.9 42.9	8	SWbS	46.5	31.8	0. V.9. KS. S at 10.18 ^m . Ber: heaving
mean	44.48	50.37	29.459	45.07 44.05			53.54	42.59	

1859	10 Am			Hyg.	Wind		Rain			
Nov ^r	E	A	Bar.				Square	Round		
					Force	Direction				
1	44.7	44.1	28.315	45.2 43.4	3	NNW	0.621 0.260	0.868	b. y.	K. CK.
2	42.6	44.1	29.390	42.5 38.1	5	Wb N	0.093 0.097	0.107	b. y.	K. CK.
3	43.	43.1	29.323	43.1 41.3	5	SSW	0.034 0.048	0.048	b. y.	
4	41.3	43.1	28.967	41.8 40.2	3	NNE	0.115 0.112	0.125	o. m.	rain. n.
5	39.6	41.2	28.890	39.6 38.6	5	SSW	0.443 0.458	0.487	o. m.	rain n.
6	49.1	46.1	28.801	42.4 42.7	4	SWb S	0.213 0.220	0.275	b. y. g.	KS. CK. K.
7	42.2	44.3	29.233	42.3 40.4	6	WSW	0.037 0.032	0.123	b. y. g.	K. CK.
8	45.1	44.	29.420	45.7 42.5	4	NTW	0.018 0.047	0.071	b. y. g.	K. KS. CK. n
9	39.2	41.5	30.270	39.1 36.8	1	NTW	0.002 0.001	0.006	o. y.	K. KS. S
10	39.6	40.2	30.430	39.9 38.1	4 1/2	ES E	0.001 0.006	0.001	o. y.	KS. S
11	47.	43.9	30.231	47.3 44.9	7	SS E	—	—	o. y.	S. KS. S. CS.
12	47.	45.1	30.020	47.2 44.9	2 1/2	SS E	—	—	o. y.	K. KS. S
13	48.	46.9	30.109	48.1 47.1	1	SSW	—	—	b. y.	C. CS. S
14	31.2	41.2	30.082	31.2 31.2	1 1/2	SS E	—	—	frosty fog.	
15	38.9	42.1	30.184	39.1 38.	2	WNW	0.002	0.011	o. m.	KS.
16	42.6	42.1	30.207	42.7 40.7	2	ES N	0.001 0.000	0.002	b. y.	KS. CK. S
17	41.7	41.4	29.987	42.3 38.3	5	ES E	—	—	o. y.	S. CS. CK.
18	48.7	46.1	29.725	48.8 48.8	8	SSW	0.105 0.248	0.370	o. y. g.	K. n.
19	43.	43.9	29.891	43.6 42.6	2	SWb S	0.428 0.635	0.666	o. m.	rain n.
20	45.1	45.1	29.684	45.3 42.5	3	E	0.145 0.161	0.152	o. y.	KS. S. CS.
21	46.9	45.3	29.323	47.3 46.1	6	SS E	—	—	o. y.	KS. CS. S. n. light rain
22	47.2	46.3	29.692	47.6 47.3	2	Wb S	0.001 0.000	0.003	b. y.	KS. S. K.
23	43.6	44.6	29.823	44.7 43.7	5	ES S	0.002 0.002	0.013	b. m.	KS. S
24	49.1	47.1	29.722	49.7 47.7	5	ES S	—	—	b. y.	CK. C.
25	47.3	47.	29.651	47.8 45.6	5 1/2	SEb E	0.009 0.008	0.010	b. y.	CK. K. C.
26	48.9	47.9	29.325	49.3 48.3	3	S	0.213 0.207	0.239	b. y.	CK. C. KS. CS
27	39.7	44.1	29.739	39.9 38.5	4	SW	0.041 0.033	0.072	b. y.	KS. CK.
28	38.1	43.6	29.711	38.2 37.5	2	SWb S	0.143 0.143	0.186	b. y.	CK. KS.
29	34.9	40.5	29.606	35.1 34.9	3	SSW	0.037 0.037	0.031	b. y.	CS. C
30	32.1	38.1	29.581	32.1 30.3	0	NNE	—	—	b. m.	
mean	42.91	43.79	29.645	43.15 41.54			2.694 3.335	3.866		

1859	10 P.M.			Hyg ^r	Wind.		Max.	Min.		
Nov:	E	A	Bar:	—	Force	Direction	T	T		
1	39.8	43.5	29.186	39.8	1	NNW	47.5	40.2	b ₆ m.	KS.S.
2	40.4	44.1	29.324	39.7	5	SSW	48.6	37.4	b ₉ v.	S
3	38.1	43.8	29.247	40.8	1½	SWbS	48.7	36.9	o. v.	KS. (Reg at 11.35 ^{h. m.})
4	38.9	43.6	28.957	40.1	3	WNW	43.5	37.3	b ₉ v.	CK.
5	45.2	45.1	28.761	38.2	9	SWbS	50.	35.3	b ₁₀ v.	Bar: heaving.
6	48.	47.3	28.713	39.1	6	SSW	52.8	45.	b ₂ v. g.	K.CK. n. J
7	36.	42.4	29.310	38.8	6	SWbW	49.8	36.8	b ₁₀ v.	K.CK.
8	36.3	42.9	29.961	45.6	3	NNW	48.3	36.4	b ₈ v.	S. CS. bright halo round D
9	34.5	42.	30.402	46.6	1	NbW	43.6	33.9	b ₂ v.	KS.S
10	42.	41.5	30.348	36.3	2	SE	42.8	32.2	o. v.	K.KS.
11	45.8	45.	30.091	34.2	9	SS E	49.6	41.7	o. v.	KS
12	47.7	47.1	30.035	34.4	4	S	52.1	43.7	o. v.	CS. strong halo round D
13	42.3	47.1	30.093	42.8	2	SS E	51.3	43.8	b ₈ v.	CS. strong halo round D
14	35.5	41.1	30.147	42.3	0	SSW	44.5	31.5	fog.	
15	36.9	41.5	30.209	36.4	2	ENE	41.2	36.3	o. m.	KS.
16	36.4	42.4	30.116	37.1	1½	SE	46.1	36.	b ₁ v.	KS.K.
17	42.8	43.9	29.810	36.1	7	SBW	44.4	36.9	o. g. g.	n. rain.
18	42.	45.	29.871	42.7	2½	WSW	51.3	42.4	o. g.	n. rain.
19	45.7	44.8	29.804	42.1	6	S	46.7	40.9	o. g.	n. rain.
20	42.4	45.1	29.451	46.2	2	SS E	49.6	43.5	b ₁ v.	S. CS.
21	47.	47.2	29.485	45.7	4	SSW	51.4	43.2	b ₆ v.	S. {The anemometer-clock &c cleaned this afternoon
22	42.	46.1	29.818	47.3	0	N	49.8	42.0	o. m.	
23	47.1	46.7	29.733	42.5	3	ESbS	47.3	35.7	b ₄ m.	CS. at 10 ½ N
24	47.7	48.	29.693	47.1	7	ES E	51.5	46.2	b ₇ v.	CS.S
25	47.1	47.1	29.512	46.3	6	SEbS	49.4	45.6	b ₂ v. g.	CS.KS.
26	42.2	46.6	29.485	47.7	4½	WSW	51.1	42.1	b ₁ v.	CS.S.
27	36.9	43.1	29.691	46.2	2	W	45.2	38.	b ₃ m.	KS.S
28	36.5	42.7	29.664	41.8	3	SW	43.8	36.	b ₁ v.	KS.
29	37.4	40.6	29.474	36.9	5½	NE	39.1	33.9	o. v.	KS.
30	33.2	38.2	29.670	37.4	2	NbN	38.5	29.5	b ₉ v.	S.
mean	41.05	44.18	29.669	34.2			47.32	38.64		

1859	10 Am:			Hyg ^r	Wind		Rain		
Dec ^r	E	A	Bar:		Force	Direct ⁿ	Square	Round	
1	36.2	41.9	29.880	36.3	2	NbW	—	—	b. y. cs.
2	29.5	37.2	29.965	33.8	0	SWbS	—	—	b. m. ck. k. Hyg ^r frozen.
3	29.9	38.	29.994	29.4	2	SWbS	—	—	b. m. cs. do
4	44.7	41.	29.162	29.6	5	SW	0.285	0.325	b. y. k.
5	40.6	44.2	28.782	45.2	10+	SW	0.285	0.428	b. y. y. k. ck. Bar: heaving much
6	32.7	37.	29.091	38.6	6	SbW	0.285	0.310	b. y. y. k. ck. cs.
7	33.3	36.2	29.418	32.7	4	SbW	0.285	0.310	b. y. y. k. ck. cs.
8	47.7	42.3	29.723	31.4	9	SbW	0.285	0.310	b. y. y. k. ck. cs.
9	47.1	44.4	30.072	48.2	6	ESb	0.285	0.310	b. y. y. k. ck. cs.
10	47.7	45.4	30.421	47.1	5+	SSb	0.285	0.310	b. y. y. k. ck. cs.
11	45.1	45.1	30.335	47.6	3	SSW	0.285	0.310	b. y. y. k. ck. cs.
12	41.7	44.3	30.378	45.6	2	NbW	0.285	0.310	b. y. y. k. ck. cs.
13	36.8	41.4	30.252	45.1	1 1/2	NW	0.285	0.310	b. y. y. k. ck. cs.
14	29.1	37.3	30.061	35.5	2	NbW	0.285	0.310	b. y. y. k. ck. cs.
15	29.9	35.	29.917	29.2	1	WbS	0.285	0.310	b. y. y. k. ck. cs.
16	23.8	33.2	29.609	29.7	0	SWbS	0.285	0.310	b. y. y. k. ck. cs.
17	23.7	31.7	29.523	23.5	0	WbS	0.285	0.310	b. y. y. k. ck. cs.
18	22.2	30.	29.470	23.3	0	SWbW	0.285	0.310	b. y. y. k. ck. cs.
19	16.6	28.	29.520	21.5	2	NbW	0.285	0.310	b. y. y. k. ck. cs.
20	34.5	31.5	29.121	21.3	5	SbW	0.285	0.310	b. y. y. k. ck. cs.
21	35.4	34.1	28.870	34.6	6	SWbW	0.285	0.310	b. y. y. k. ck. cs.
22	29.6	32.9	29.326	33.7	1	WbW	0.285	0.310	b. y. y. k. ck. cs.
23	23.8	30.1	29.271	35.3	0	NbW	0.285	0.310	b. y. y. k. ck. cs.
24	37.5	35.1	28.711	29.7	4	SW	0.285	0.310	b. y. y. k. ck. cs.
25	35.6	35.7	28.656	37.4	4	SbE	0.285	0.310	b. y. y. k. ck. cs.
26	33.6	36.1	28.850	35.9	1	EbN	0.285	0.310	b. y. y. k. ck. cs.
27	31.8	34.3	29.005	34.4	1	SWbW	0.285	0.310	b. y. y. k. ck. cs.
28	42.2	36.	28.577	32.4	4	E	0.285	0.310	b. y. y. k. ck. cs.
29	38.6	37.2	28.757	42.3	4	SbW	0.285	0.310	b. y. y. k. ck. cs.
30	42.1	40.1	28.902	42.3	8	SW	0.285	0.310	b. y. y. k. ck. cs.
31	42.2	40.4	29.245	40.7	3	WbS	0.285	0.310	b. y. y. k. ck. cs.
mean	35.01	37.34	29.447	35.93		SW	1.575	3.330	

1859	10 P.M.			Hyg.	Wind		Max. T	Min. T		
Deck	E	A	Bar.		Force	Direct ⁿ				
1	27.6	36.1	29.941	28.1	0	SW	40.5	28.9	b ₁₀ .v	
2	25.5	35.5	30.015	27.3	1	SSW	40.5	27.	b ₁₀ .m	Hyg. frozen.
3	34.	36.2	29.532	26.1	9	SBW	35.5	26.4	o.v. 99.	KS. n. occasional light rain
4	50.9	45.4	28.801	34.2	9	SWbS	52.4	34.4	o.v. 99.	(Bar. heaving.) K.
5	34.4	38.2	29.041	32.8	8	SWbS	52.7	33.9	o.v. 9.	n. sleet.
6	31.6	36.1	29.123	34.4	6	SBW	36.8	31.8	b.vv. 9.	K. CK.
7	40.6	40.	29.630	33.7	6	SEbS	41.8	31.2	b ₉ .vv. 9.	CS. K.
8	47.6	46.3	29.962	31.7	5	SEbS	50.3	40.6	o.v.	KS. K. (at 11 ^h 1/2)
9	47.4	45.6	30.308	30.2	5	S	50.3	46.9	o.v.	S. halo round D
10	44.2	45.1	30.371	48.2	3	S	48.7	44.6	o.m.	rain n.
11	42.8	45.	30.311	47.9	3	SW	46.9	43.4	o.m.	KS. K.
12	38.1	43.3	30.361	46.8	0	N. N. W	47.1	38.9	o.v.	K.
13	32.	39.	30.200	38.8	3	N. N. W	40.9	32.3	b.v.	K. Hyg. frozen.
14	24.4	34.2	30.087	32.3	1	NWbS	33.6	24.5	b ₂ .v.	CS. S. (at 10 ^h 40 ^m)
15	29.7	35.2	29.715	23.4	0	WbS	33.6	24.6	o.g.	snarling gun
16	23.5	32.6	29.500	23.4	1	SW	32.	23.6	fog-	gun
17	18.	30.1	29.572	23.3	1	WbS	29.	19.4	b ₉ .v.	CS. gun
18	23.8	30.	29.490	23.8	0	NbS N	27.9	19.	o.m.m.	KS. (Hyg. sunk below its graduation)
19	21.2	27.1	29.398	20.6	4	SWbS	24.9	16.6	b ₃ .m.	KS. S.
20	36.7	34.1	28.842	20.2	7	SWbS	37.6	21.4	o.v. 9.	KS. S. n. (at 11 ^h 47 ^m)
21	30.	35.1	29.167	36.9	2	SSW	38.6	30.	b ₁₀ .v.	
22	24.	31.5	29.355	36.4	0	NW	36.4	24.6	fog very dense.	Hyg. frozen
23	36.1	34.6	28.730	32.	9	SE	29.1	20.6	o.g.	heavy rain.
24	36.2	36.3	28.723	36.3	4	SBW	40.4	33.3	b.v.	KS. S.
25	35.4	36.4	28.664	36.4	2	E	39.5	33.6	b.v.	KS.
26	28.2	35.	28.935	36.1	2	SW	37.	28.9	fog-	a few stars visible
27	31.4	34.6	28.977	35.4	1 1/2	NbS N	34.5	27.	o.m.	KS.
28	36.	37.1	28.749	28.6	5 1/2	SWbS	44.4	31.6	b ₉ .v.	KS.
29	42.9	38.3	28.805	31.4	6 1/2	SWbS	43.8	34.9	o.v.	KS. at 11 ^h 20 ^m
30	41.	41.1	29.115	36.2	5	WbS	45.4	40.9	b ₁₀ .v.	Low Auroral Arch N. N. W
31	50.	44.4	29.163	35.7	6+	SBW	51.7	40.4	o.v.	K. KS. Bar. heaving -
mean	34.36	37.40	29.438	43.3			40.35	30.81		

Summary	10 A.M.			10 P.M.			Rain		Vapour	Wind		Thermometers	
1859	E	A	Bar:	E	A	Bar:	Square	Globe	Tension	Force	Direction	Maximum	Minimum
			at 500				Inches	Inches					
Jan ^y	41.16	42.07	29.829	41.27	42.57	29.816	2.817	4.356				53.0 - 21 st	31.4 - 31.0
Feb ^y	43.22	42.32	29.618	41.30	42.84	29.631	1.437	2.692				54.7 - 16 th	24.0 - 7 th
March	46.89	45.77	29.671	43.57	46.23	29.662	2.584	4.038				58. - 14 th	28.4 - 31.0
April	46.84	45.64	29.559	42.30	46.59	29.560	2.566	3.420				67.5 - 6 th	28.7 - 22 nd
May	57.60	57. 60	29.840	49.48	55.35	29.842	0.293	0.385				70.5 - 31 st	35.2 - 5 th
June	60.48	59.65	29.769	54.81	61.02	29.778	1.316	1.321				73.5 - 7 th	47.0 - 16 th
July	64.96	63.26	29.860	59.48	64.74	29.874	1.849	1.896				83.8 - 12 th	47.5 - 30 th
Aug ^t	61.95	60.88	29.703	56.63	61.94	29.712	3.224	3.403				74.5 - 22 nd	47.8 - 10 th
Sept ^r	55.71	55.42	29.563	50.51	56.11	29.537	4.010	4.269				64.9 - 24 th	47.8 - 5 th
Oct ^r	48.29	50.39	29.481	44.45	50.37	29.458	1.522	1.465				66.6 - 30 th	28.1 - 24 th
Nov ^r	42.91	43.79	29.661	41.05	44.18	29.685	3.335	3.866				52.8 - 6 th	29.5 - 30 th
Dec ^r	35.01	37.34	29.481	34.36	37.40	29.474	2.393	3.330				52.7 - 5 th	16.6 - 19 th
Summer	58.44	57.13	29.688	52.44	58.23	29.689	12.323	12.824					
Winter	42.63	42.81	29.635	40.62	43.27	29.637	15.123	21.702					
Year.	50.46	49.39	29.664	46.58	50.82	29.666	27.446	34.526					

1859	Rain days	Mean Therm.	Mean Bar.										
Jan ^y	23	41.21	29.822										
Feb ^y	19	42.26	29.625										
March	26	45.23	29.666										
April	23	44.57	.560										
May	8	53.39	.841										
June	14	57.65	.773										
July	14	62.22	.868										
Aug ^t	19	58.79	.708										
Sept ^r	20	52.46	.560										
Oct ^r	21	46.37	.469										
Nov ^r	21	41.98	.673										
Dec ^r	15	34.68	.477										
	223												

Mean Temperature of year = 48.52
 Maximum July 12th = 83.8
 Minimum Dec. 19th = 16.6

Mean Barometer = 29.665
 Maximum 8th Long P.M. = 30.535
 Minimum 8th Oct 11 P.M. = 28.281

Sum = - $\frac{1}{45}$
 kanta - $\frac{1}{150}$
 yeen - $\frac{1}{72}$