

1864	10 AM			Damp	Wind		Rain		
Jan	E	A	Bar	Hyg	Dir	Miles	Sq	Rd	
1	39.1	41.5	29.800	39.1 35.8	E 6 S	199	0.030	0.035	b v Ks
2	35.	38.	30.183	35. 32.2	SSE	186	—	—	$\frac{1}{2}$ v q B.S. K.
3	33.4	37.	30.272	33.3 32.	SSE	197	—	—	6? v. q K Ks
4	32.1	35.2	30.324	31.9 29.	SSE	269	—	—	o v h B.S. B Ks
5	30.	33.5	30.194	29.9 27.8	E	35	—	—	o m Ks
6	23	33.8	30.021	23.1 22.1	NE	13	—	—	$\frac{1}{10}$ m
7	23.8	30.2	30.012	23. 23.	SW	6	—	—	$\frac{1}{10}$ f. 8?
8	30.3	33.	29.806	30.4 29.	E	28	—	—	o f (T on road = 17)
9	35.3	34.2	29.545	35.3 33.5	ESE	151	0.005	0.026	o. m q Ks (T on grass = 17.5)
10	40.2	38.8	29.560	40.5 40.1	SW 6 S	217	0.210	0.216	o v m Ks 310
11	41.	38.5	29.596	41.1 39.	SSE	210	trace	—	o v q Ks 362
12	35.7	39.9	29.752	35.7 35.4	SW 6 S	99	0.456	0.600	$\frac{1}{10}$ m 550.
13	39.	39.	30.044	38.9 37.3	SW 6	140.	0.011	0.002	$\frac{1}{2}$ v m q B 6 S Ks 208
14	36.3	38.	30.004	36.3 33.2	SE	49.	—	—	$\frac{1}{10}$ m 293
15	44.3	42.	29.800	44.6 44.	S 6 E	207.6	0.021	0.019	o v h B.S. Ks 204.9
16	42.9	42.	29.818	43. 42.1	SE	108	0.013	0.018	o m q r Ks 283.6
17	41.1	43.2	29.450	41.3 39.3	SW	337	0.321	0.303	6+ o q Ks 606
18	36.5	40.	29.771	36.7 35.1	SW 6	72	trace	—	$\frac{1}{8}$ v? m S 315
19	41.9	42.6	29.678	42. 41.9	SSW	192.	0.100	0.110	$\frac{1}{8}$ m 453
20	38.2	42.	29.897	38.3 36.2	SSW	142.	0.022	0.035	o m S? 318
21	43.	40.4	29.398	43.2 41.5	SW 6	229.	0.020	0.010	b v h q d Ks 322
22	44.3	44.2	29.293	44.5 42.	SW 6 S	306.4	0.102	0.233	$\frac{1}{8}$ m CS thick bank N 603.9
23	38.2	41.9	29.442	38.2 36.7	SW 6	208	0.149	0.218	$\frac{1}{8}$ v q Ks 477
24	40.	40.	29.818	40.2 38.3	SW	219.8	0.003	—	$\frac{1}{8}$ h B.S. B.S. 395.9
25	42.3	42.	30.090	42.3 41.8	SW	197.5	0.	0.005	$\frac{1}{8}$ v m B. C.S. Ks 370.5
26	46.5	44.1	29.738	46.8 46.2	S 6 SW	263.7	0.117	0.173	$\frac{1}{8}$ v m to W B.S. C. Ks. K 459.
27	46.5	44.9	29.598	46.8 45.3	SW	233.5	0.013	0.024	$\frac{1}{8}$ v m N. 6 SE - Ks 390.5
28	43.8	44.4	29.725	44.4 42.	W 6 N	216.5	0.065	0.107	$\frac{1}{8}$ r Ks
29	44.3	43.6	30.069	44.6 43.9	S	107.	trace	—	o m q Ks
30	43.7	46.	29.972	44.1 42.8	W 6 S	251.	0.009	0.044	b v K
31	41.9	46.	29.766	42. 41.9	W 6 N	273.	0.148	0.291	o m r (a wet fog)
	38.50	39.99	29.820			3373.0	1.815	2.469	

1864	10 P m				Wind		Thermo		
January	E	A	Bar	Hyg	Dir	Miles	Mx	Mn	
1	34.7	40	30.045	34.8 30.3	SE	244.	43.2	33.	o g KS.
2	33.2	37	30.248	33.3 32.1	SE	214.	40.2	32.5	6 v KS.
3	35.9	38	30.272	36.3 32.1	SE	256.	40	32.	o g q
4	29.2	35	30.284	29.2 27.5	SE	120.	40.4	28	6 v S
5	26.7	35	30.046	26.9 26.1	S	46.	37	24	6 v m
6	21.7	32.2	30.012	23.4 21.4	NE	5.	33	21	6 v f
7	26.7	32.	29.935	26.8 24.1	W	8.	33.2	18.5	o g
8	28.9	32.2	29.636	28.1 28.	SW	64.	34.5	26	o g
9	40.7	36.6	29.514	40.9 39.7	SE	159.	43	27.5	o g q
10	33.8	38	29.725	34.1 33.1	SE	145.	46	33	6 m KS stars dim
11	44.6	42.	29.435	44.9 44.1	SE	340.	47	33	o g q r
12	34.7	40.5	29.989	34.9 34.	S	109.	47.1	34	6 m faint aurora to NW
R 13	39.1	41.	30.084	39.5 39.1	SW	153.	44.?	33	f.v.S
R 14	41.7	41.2	29.854	41.6 40.9	SE	155.9	45	28	o.v.v. CS. KS
15	38.2	41.8	29.870	38.6 38.3	SW	81.	48	38	6 v GS C KS halo at 6 P.m
16	42.2	43	29.639	42.7 40.7	SE	269	47.9	31.8	o KS blowing hard
17	39.1	43.	29.747	39.6 37.9	SW	143	48.	39	o v P KS
18	42.	41.5	29.614	42.2 39.	S	261	44.3	31	o v q KS
39.5 19	39.5	43	29.799	39.9 38.7	SW	171	47	38.5	6 v GS KS very fine halo round C
20	34.8	40	29.691	35.1 34.2	SW	93	44.2	35	o v thin GS. C. CX halo of 45 & traces of one of 36
21	44.1	43.5	29.194	44.5 43.5	SW	297.5	50	33.5	o v q d KS
22	45	45.2	29.167	45.1 44.3	SW	269	57	42	o v r q KS KS (halo at 6 P.m)
34 32 23	33.8	40.7	29.649	34.5 32.5	SW	176.1	48	33.8	6 v h aurora from N to E
24	38	42	30.026	38.2 37.4	SW	173	46.2	33	6 v GS K
25	41.1	42.	29.924	41.3 39.8	S	195.3	47	37.8	o v q K. KS KS
26	45.8	45.4	29.623	46.1 45.3	SW	157.0	51.2	41.5	6 v q K KS aurora
27	41.3	43.6	29.520	41.5 40.1	SW	286.5	57.5	40	4 v q K N a remarkable brightness SE a wild night
28	42.6	44.	29.991	43. 41.2	NW	184.5	48.1	40.5	o g f nowind
29	47	46.	29.962	47.5 45.2	SW	244	50	42	6 g q
30	41.9	44.	29.811	42.1 39.5	SW	155	50	39.5	6 g v K
a 31	45.2	47.	29.696	45.5 45.	SW	250	52	40	6 g 3 KS
	37.85	40.53	29.807			5222.8	44.98	33.37	
							45.10	33.56	

1864	10 AM			Damp	Wind		Rain		
Feb?	E	A	Bar	Hyg:	Dir	Miles	Squ.	Rot	
C 21	44.2	44.4	29.610	44.4	SW 6 S	298	0.182	0.297	6 v h q C. C. S. K. S. faint halo
L 22	39.8	42.3	29.537	39.5	SW 6 S	225	0.018	0.335	0.2 in. 9 heavy shower
R 3	37.2	40 -	29.685	37.2	SW 6 W	216.9	0.215	0.332	6 r q N. C. K. S. C. S.
4	35.6	39.	30.128	35.7	W	235	show	0.082	6 v C. C. K. S. snow on ground
5	34.4	37.5	30.320	34 -	NNW	65	frozen	frozen	6 v C. K. S. snow on ground
6	35 -	37.5	30.124	31.9	NNW	30	frozen	frozen	6 v h C. K. S. slight snow on roof
7	33.1	38.	29.827	32.7	NNW	76	0.050	0.072	0 m snow
8	33 -	35 -	29.572	32.8	SE	66	frozen	frozen	6 v h C. K. S.
9	33 -	35 -	29.384	33	SE	145	frozen	frozen	6 v h sheet C. S. K. S.
10	35.4	36.8	29.286	32.3	NE	138	-	-	6 v C. S. C. K. peculiar aspect
11	35 6	36.9	29.467	33.9	S 1/2 E	49	-	-	0 v m K. S.
12	47.6	41.5	28.882	48.2	SW 1/2 W	182	0.110	0.078	6 v q C. S. C. K. S.
13	46.1	46.5	29.013	46.1	SW 3/4 W	342	0.158	0.414	0. v m r q. C. K. N. Bar heaving
14	46.1	43.8	29.766	46.5	SW 1/2 W	302	0.004	0.034	0. v q K. S.
15	47.7	45.6	29.420	47.9	SW 1/2 W	320	0.018	0.046	0. v q K. S.
16	36.3	41.8	29.476	36.4	SW 1/2 W	191.	0.090	0.182	6 v q K. S. C. K. N.
17	37 -	39.8	29.997	34.2	WNW	71.	frozen	frozen	6 v S. K.
18	31.7	36.9	30.083	31.7	NNE	19.	frozen	frozen	6 m S.
19	35.1	38.	30.242	35.7	SE	58.	S	S	6 v. v. q. S. K.
20	31.1	36 -	29.882	31.8	SE	137.	-	-	0 m snow
21	27.9	34.8	29.675	27.6	N 1/2 E	96.	-	-	6 v C. K. C. K. S.
22	26.4	33.5	29.654	26 -	N 1/2 E	15.	-	-	6 m
23	29.2	33 -	29.774	28.8	NNE	7.	-	-	6 m
24	30.2	38 *	29.888	29.9	NE 1/2 N	5.	-	-	6 m birds singing
25	33.9	34	29.881	34	NE	13.5	-	-	6 m C. C. S. birds singing more
26	35.6	34.5	29.849	35.2	SW	63.7	0.003	-	6 v m C. K. K. S. C. S.
27	33.7	34.6	29.560	33.5	E 1/2 S	51.4	-	-	0 1/2 m K. S.
28	36.9	36.4	29.429	37.3	NE	69.8	0.352	-	0 1/2 v. r fog cloud
29	37.3	37.	29.412	37.3	NE	49.4	0.131	0.024	0 f
	36.07	38.21	29.684			3682.7	1.331	1.896	

at 8:30 A.M.
perfect
* at 11.10 A.M.

* The shutters being open
the sun had reached AT

1864	10 P.M.			Damp	Wind		Therm		
February	E	A	Bar	Hyg	D	S	Max	Min	
1	40.1	45.2	29.620	40.5	SW	328.	52	40.2	8 g
2	37.8	41.3	29.586	38.7	SW	236.	44	37	6 g
3	32.2	39	29.874	36.1	W6S	153.	42	32.3	6 v
4	30.6	39	30.245	32.2	NW	120.	41.9	31	6 v
5	32.9	38.5	30.320	30.8	N6W	67.	40.3	28.5	0 v g
6	32.7	38.2	29.974	33.1	W6N	51.	41.4	29	6 v g
7	30	38.2	29.758	32.7	NE	44.	38	30.5	6 g
8	30.7	36.5	29.430	30.2	SW6S	81.	38	26.5	6 g
9	35.9	37	29.210	30.9	SE	168.	39.2	28	0 g
10	34	38.2	29.510	36.1	ENE	80.	42	32	0 g
11	40.7	39.2	29.198	34.3	SW	248.	44	31	0 v g
12	40	41	29.218	32	S	clock stop	51	38	0 v
13	37.7	43	29.748	41.1	SW	306.	53	38	6 v
14	45.9	45	29.604	40.8	SW	345.	51	38	0 v g
15	41	44.6	29.460	46.1	WSW	250.	57.2	41	6 v
16	32	40	29.660	44	W	121.	44.8	31	6 v
17	29.9	39.5	30.038	32.4	NW	49.	44	29	6 m
18	29.3	39.2	30.204	32.2	NE6E	49.	43.2	25	6 m
19	32.2	37.4	30.081	32.2	SE	141.	39	28	0 v
20	27.9	35	29.754	32.6	ENE	109.	38.2	27.5	0 v
21	23.3	35	29.600	32.2	NW	26.	36.2	23	6 m
22	29.1	36	29.726	28.2	NE	25.	39.4	22	6 v
23	26	33.5	29.842	23.1	NE	45.	40	22	6 m
24	28	35.2	29.871	26	NE	74.3	40	22.8	6 v
25	28.8	36	29.867	28.1	SW	39.5	40.1	25.3	6 v
26	31.8	36.5	29.720	28.2	SW6E	74.8	41.8	26.5	6 v
27	35.3	38.8	29.448	31.7	NE	73.2	38	25.5	0 v g
28	33.9	36.8	29.464	29.6	N	100.7	41	33.7	6 g m
29	37.1	37.8	29.426	33.8	NNW	clock stop at 4 PM	44	33	g.
	33.34	38.54	29.708			34045	42.87	30.01	
							42.71	30.18	

6 N in North

Snow fresh fallen on the roof &c

NS

NS quite still

BS - S? quite still

very dark except at SE { at 3.40 PM a Parhelion

NS

NS

NS blowing

NS CS CK halo at 7 PM

snow fell 6.30 PM inch deep

CS

N. NS

CK - N

N. where it is clear extraordinarily so

CK. S.

N in East horizon - faint blue

1864	10 AM			Temp	Wind		Rain			
March	E	A	Bar:	App	Dir:	Miles	S	R		
1	39	38.9	29.564	39.9	ESE	134.4	0.078	0.036	o.h	KS
2	40.9	38.8	29.634	41.3	NNE	57.	—	—	o.m	134.4 = the 24 hours clock having 134.4
3	41.7	39.5	29.469	42.2	NE 1/2 E	57.	0.014	—	o.m	KS?
4	38.2	39 —	29.284	38.3	NE 1/2 E	24.4.	0.072	0.086	o v m r q	KS
5	46 —	40.6	29.209	46.8	E	120.	0.282	0.275	o m	120 miles
6	38 —	40.5	28.870	37.59	ENE	168.	0.422	0.588	o v? m r bitter	KS N blackbirds &c all singing
7	36.9	38.8	28.698	37.9	NNW	56.	0.246	0.308	o.v.h.	KS
8	33.7	37.	29.112	33.9	NNE	109.	—	—	o v q snow	KS
9	35 —	38.9	29.258	35.2	N 1/2 E	18.	0.043	—	6 v	Serry mt. covered with snow & very bright
10	36.8	36.9	29.165	36.9	S 1/2 W	98.	—	—	8 v q	K. C.
11	39.8	39.1	28.983	39.9	SW	280.	0.037	0.003	6 v q	KS. K. C. 498
12	42.8	38.8	29.824	42.9	WSW	148.	0.110	Trace	6 v. KS. CK	
13	42.7	42.3	29.708	42.5	SW	138.	0.075	0.051	o.m. KS. CS. q	
14	52.8	44.8	29.540	53.0	SW	300.	0.092	0.065	o.v. KS. q	
15	43.3	42.6	29.626	43.2	N	138.	0.160	0.156	6 m. KS. CS.	
16	42.0	40.3	29.816	41.9	SE	74.	0.000	0.000	6 v. KS. CS. CK	
17	47.9	44.3	29.754	48.1	S	235.	0.067	0.000	o.v. KS. q	
18	47.2	43.8	29.584	47.0	E 1/2 N	58.	0.000	0.000	6 m. KS. CS	
19	43.8	40.5	29.418	43.3	E 1/2 N	46.	0.000	0.000	6 m. CS. CK.	Swallows? Arrived
20	48.4	44.3	29.454	48.2	SE	104.	0.205	0.118	6 m. KS. CS	
21	44.5	43.8	29.556	44.2	SE	68.	0.000	0.000	6 m KS. CK	
22	41.5	43.2	29.661	41.2	N	62.	—	—	o v m	KS?
23	42.9	43	29.850	42.8	N 1/2 W	69.	0.029	0.015	o m	6K K
24	46 —	44	29.784	46.1	SW 1/2 S	25.	—	—	o v	KS
25	47.8	43.2	29.467	47.8	SW 1/2 S	113.	—	—	o v q	6K. K. KS.
26	37.8	40.	29.588	37.6	NW	67.	0.086	0.080	6 v q	KS K Snow at 5 PM lay on ground till 9 1/2
27	35.1	37.9	29.502	35.1	SW 1/2 W	81.	0.010	0.002	o v? m q snow	KS
28	43.8	41 —	29.148	44.2	W 1/2 N	195.	0.038	0.017	o m q r	KS Bar. heaving
29	44.2	40.2	29.401	44.8	N 1/2 W	162.	0.144	0.260	6 v q	K CS
30	44.	41.8	29.424	44.1	NW	160.	0.044	0.066	6 v q	KS K 6V
31	45.	45 —	29.210	45.8	WSW	239.	0.046	0.091	o.m.r.q	KS. W
	42.44	40.74	29.440			3631.4	2.300	2.217		

1864	10 P.M.			Damp	Wind		Thermom ^{rs}		
March	E	A	Bar	Hggt	D	Miles	Max	Min	
1 st R 1	38.1	38.4	29.638	39.2	NE	108.	44	34.5	6 g d. thermometer clock cleaned
- 2	39.5	40.	29.550	38.2	ENE	48.	46.2	37-	0 g
- 3	39.4	42.	29.345	38.9	NE 6 E	148.	47	36.3	0 g
- 4	39.4	39.8	29.209	39.6	E 6 N	226.	48.4	36	0 g q r
(L) 5	41-	41.2	29.128	39.7	NE	153.	49.3	39	0 g d q
6	35.2	39.2	28.674	38.3	N 6 E	125.	44.9	35	0 g d
- 7	33.2	38.2	29.028	38.4	N 1/2 E	121.	41-	32.8	0 g q
- 8	30.2	36.5	29.270	32.8	N 1/2 E	107.	39	30.5	6 v
- 9	31.1	38.2	29.260	30.4	ENE	29.	41	26.5	6 v
- 10	39.1	39-	29.085	29-	SSW	218.	45.6	28.8	0 g q
11	37.4	39.4	29.572	39.3	W 1/2 N	217.	45.4	33-	6 v
12	34.7	40.	29.934	37.9	SW	200.	47.	31	6 m
13	45.9	43.0	29.616	34.2	SW	325.	53.2	33.2	10
14	46.8	46.0	29.454	33.3	SW	370.	54.2	45.0	0 v. KS. g
15	34.2	42.3	29.700	46.0	E	82.	50.5	31.8	0 m. KS. g. Rain
16	42.8	42.8	29.717	44.0	SW	244.	46.0	30.5	6 m. CS. Halo 7 PM
17	42.8	44.3	29.709	37.2	SE	167.	54.2	42.5	0 v. KS. n. g
18	37.8	45.2	29.480	42.0	E 6 N	64.	51.0	34.8	0 v. KS
19	42.8	43.0	29.420	41.5	E 6 N	55.	50.2	32.8	6 m
20	41.2	46.0	29.534	42.5	SE	115.	52.9	41.4	0 m. Rain
21	39.9	45-	29.620	42.1	SE	115.	52.9	41.4	6 m. KS. CS
22	39.2	44	29.745	40.8	N 1/2 E	86.	49.2	35.	0 v. BK L
23	43.2	44.5	29.852	40.1	NE 1/2 N	71.	46.8	37.5	0 v
24	40.1	44.8	29.620	38.5	NW	27.	47-	38-	0 v
25	32.3	42.	29.524	43.7	SSW	119.	53.4	39	0 v
26	38.6	38.8	29.700	41-	NW	95.	50.9	32	6 v
27	39	40.	29.350	40.4	WNW	196.	43	30	6 v q
28	39.7	39	29.193	39.9	W 6 S	174.	44.6	28	6 v g
29	41.6	43.	29.276	36.7	NW	235.	47.8	34	6 v g g
30	39.2	43.2	29.300	34.1	W 6 N	122.	50.5	34	0 v g
31	33.2	41.2	29.227	41.8	S 6 W	137.	50	37	6 v
				40.7	SW	120.	50	33	6 v
				38.8					CS CK
				33.3					KS Aurora not covered with
				32.8					hoarfrost
	38.28	41.61	29.450			4504.	47.61	34.28	

1864	10 AM			Damp	Wind		Rain			
April	E	A	Bar.	Hyg	Dir	Miles	Squ	R		
1	43.2	40.5	29.285	43.4	SW	235.	0.134	0.190	b v g	KS.C
2	43.2	40.4	29.693	43.2	SW	140.	0.050	0.090	b v g	KS.C
3	49.2	44.2	29.492	49.2	S	140.	0.105	0.114	0. m. KS. n. Rain. g	KS.C
4	53.2	47.0	29.720	53.2	WLS	66.	0.070	0.088	0. m. Rain	KS.C
5	43.2	46.2	29.910	43.5	E	170.	1.110	1.030	0. m. Rain	KS.C
6	48.3	46.0	29.976	48.3	ELS	32.	0.025	0.020	0. m. Light Rain	KS.C
7	56.0	48.0	29.956	56.0	S	34.	0.000	0.000	0. m. KS	KS.C
8	57.5	50.0	30.080	57.5	WSW	100.	0.075	0.074	0. m. KS	KS.C
9	58.8	56.5	30.114	58.8	NW	20.	0.000	0.000	0. m. KS. CS	KS.C
10	56.2	54.4	29.776	56.2	SSW	88.	—	—	0 v KS	Bar = 29.778
11	50.	50.	29.934	50.	W ¹ / ₂ N	97.	0.008	0.007	b v g	KS.C
12	49.3	48.	29.950	49.3	WLS	75.	—	—	b v	KS.C
13	52.3	50.6	29.807	52.3	S	87.	—	—	b v h	KS.C
14	54.	50.2	29.592	54.2	SSW	126.	—	—	b v h	KS.C (SSW)
15	47.1	49.9	29.552	47.1	NWLS	105.	0.302	0.283	0 v	KS.C
16	50.8	47.2	29.650	50.7	SW	80.	0.052	0.037	b v g	KS.C
17	49.1	48.5	29.780	49.1	WLS	124.	—	—	b v g. KS. K. N. wind & north east	KS.C
18	54.9	50.	29.756	54.9	SW	156.	0.040	0.037	0 v	KS.C
19	54.6	51.	29.459	54.6	S ¹ / ₄ E	257.3	—	—	0 v h g	KS.C Bar head rapidly
20	54.5	53.	29.500	54.5	SE	190.	—	—	b v g	KS.C
21	54.	52.6	29.764	54.3	SSW	247.	—	—	0 v h	KS.C
22	57.1	51.8	29.990	57.1	E	139.	—	—	b v h	KS.C
23	59.9	55.	30.070	59.9	NSE	18.	—	—	b v h	KS.C
24	55.	51.8	30.056	55.1	ENE	45.	—	—	b v h	KS.C
25	52.2	51.	30.041	52.4	NE	180.6	—	—	b v h g	KS.C. KS. C. (KS.C)
26	51.8	51.8	30.030	51.5	NEL	101.1	—	—	b v h	KS.C. KS. C.
27	49.6	50.8	30.093	49.6	NE	83.5	—	—	b v h g	KS.C. KS. C. Bar heavy
28	49.2	49.9	30.027	49.2	NNE	39.8	—	—	0 v	KS.C
29	49.9	51.5	30.031	49.9	NW	48.9	—	—	0 v m	KS.C
30	51.6	52.1	30.021	51.7	NW	36	—	—	0 v	KS.C
	51.86	49.66	29.837			3261.2	1.971	1.970		

1864	10 P.M.			Dry ^{ss}	Wind.		Thermo		
April	E	A	Bar	Hyg	Dir	Space	Me	Mn	
1	34.2	39	29.476	34.7	W6S	193.	47	32	6 v H.S. aurora bright NW behind cloud
2	42.3	44.0	29.702	38.6	SW	110.	51.6	30.2	0. m. KS
3	50.2	46.5	29.530	41.0	SW	157.	58.8	41.5	0. m. gray
4	50.3	46.2	29.800	50.2	SW	46.	57.2	48.0	0. m. Rain
5	43.0	46.0	29.954	50.3	SW	100.	53.2	42.2	0. m. KS
6	46.3	45.5	29.956	43.2	SW	38.	53.2	43.0	0. m. KS
7	52.0	50.0	29.994	47.2	SW	106.	57.8	47.0	0. m. Rain
8	54.8	50.0	30.126	46.3	S	52.	63.2	51.8	0. m. KS
9	52.8	53.3	30.058	52.2	SW	74.	65.5	50.	0 g
10	44.	50.1	29.922	53.8	W6S	27.	62.3	45.5	6 v S
11	39.5	50.0	29.984	44.8	W6N	94.	55.	41.	6 v S
12	42.6	50.0	29.900	39.7	SE	71.	55.2	39	6 v H. faint halo at 4 P.M.
13	45.7	50.2	29.712	38.8	SSE	188.	58.	40	6 v
14	47.4	52.	29.445	42.2	SSE	234.	58.	42	0 v H.S.
15	38.2	49.	29.648	47.5	NW	50.	54.2	40.5	6 v
16	41.5	49.2	29.741	46.2	SW	97.	56.2	34.5	6 v H. CK
17	49.1	48.5	29.792	38.6	WSE	110.	55.	38.5	6 v KS
18	46.4	50.	29.626	40.9	SSW	178.3	58	44	0 v KS
19	50.	51.	29.449	45.9	S	292.	58.2	45.6	0 v d KS
20	51.2	52.5	29.583	50.2	SESE	310.	59	47.5	0 v q KS CS
21	52.7	53.5	29.842	49.4	SE	104.	62	49.	6 v BS H.S. halo
22	47.	54.	30.024	53.	NW	103.	62.2	45	6 v h B CK
23	47.9	54	30.060	43.2	SE	61.	66.8	41	6 v h
24	45.	54.1	30.075	45.3	EN	105.4	60.	40	6 v h CK CS (corner the heard)
25	46.	53.6	30.013	43.2	N8	114.7	58.8	39	6 v h
26	45.6	52.6	30.055	46.3	N8	169.7	56.1	40.5	6 v h - Sal horizon fr N8 to W6N
27	44.6	53.6	30.053	43.	N8	109.6	57.	40.	6 v m. CS at NW - ?
28	45.8	53.2	30.016	44.8	NEN	71.9	60.8	37	0 v f
29	47.5	51.1	30.011	45.3	NW	83.7	58.4	44.	0 g
30	45	52.0	29.979	47.6	NW	33.3	58.2	45	6 v m
		53.0	29.979	45.7	NE				door of Bath room open all 10
	46.52	50.24	29.851	43.9		3483.6	57.65	41.98	

1864	10 AM			Dry ^{ss}	Wind		Rain		
May	E	A	Bar	Hg	Dir.	Miles	Sqn	R	
① 1	54.6	52.9	29.845	54.9	SW	61.4	0.089	0.077	or soft rain
2	55.3	54.	29.684	53.7	W6S	144.8	0.	0.243	6 v KS X
3	55.2	53.6	29.755	53.5	NW	94.9	0.476	0.517	3 1/2 v KS. X. C
4	57.3	53.8	29.600	49.4	W6S	60.3	0.033	0.021	1/2 v X
5	53.6	53.2	29.613	52.1	S6W	64.1	0.013	0.012	1/2 v X. KS. G. K. C
6	54.9	52.	29.666	52.7	SW	95.	0.062	0.083	4 v 0 v h BS X halo
7	54.7	51.	29.680	48.2	WNW	63.	0.068	0.047	1/2 v X
① 8	56.3	52.	29.560	47.9	E	58.	—	—	0 v q h B. CS. X Halo blue seen thro' CS
9	47.8	51.8	29.500	46.3	E.	201.	—	—	0 v h q XS
10	53.7	52.8	29.805	43.9	E6S	110.	0.033	0.024	0 v ? h KS CS
11	51.7	52.2	29.833	54.1	E6N	174.	—	—	0 v g. h. q. KS.?
12	50.3	52.1	29.838	47.9	NE6W	63.	—	—	0 v h BKX
13	59.9	54	29.930	50.3	E	30.	—	—	0 v h CK
14	58.7	56	29.948	58.9	S6W	35.	0.159	0.146	0 v ? h. r. KS
① 15	66.8	57.5	29.960	57.5	SSW	65.	0.012	0.005	0 v BK XS
16	69.	67.5	29.997	67.1	SSW	64.	—	—	0 v BS G X trace of halo
17	69.6	66.	29.999	62.4	S6W	102.	—	—	1/2 v h BS. G.
18	70.8	67.	30.118	69.6	SW	58.	—	—	1/2 v h S CK
19	73.9	66.6	30.088	70.8	SSW	23.	—	—	3/4 v BK
20	53.7	64.	29.993	74.1	N	32.	0.180	0.162	0 m r KS. N Thunder hail a few min ^{ts} before
21	60.4	62.5	29.991	64.1	WNW	46.	0.134	0.110	0 v KS
① 22	58.3	62.	29.934	54.1	WNW	72.	—	—	0 v. KS
23	54.3	59.	29.956	58.9	NE6E	54.	0.050	0.063	0 v m r - KS
24	58.8	57.	30.109	52.8	SE	10.	0.228	0.155	6 v h B. X {58.1 } 52.8 } Cirrus very thin but covering most of the sky
25	54.3	59.	29.962	58.8	NNE	54.	0.	0.	1/2 v KS
26	33.	54.	29.980	54.3	N6E	72.	0.	0.	1/2 v X XS
27	53.9	54.	29.940	47.5	NW6W	31.	—	—	0 v. K. KS
28	52.4	53.5	29.923	47.6	N	35.	—	—	6 v. K. C
① 29	52.2	53.3	29.885	52.4	N6W	90.	0.018	0.019	1/2 v. K
30	54.	52	29.705	50.8	SW	58.	—	—	0 v. KS. CS. K Bar leaving very much
31	48.7	49.1	29.671	42.5	N6E	37.	0.103	0.116	1/2 v X
	56.66	56.30	29.825			2157.5	1.858	1.800	

* the square gauge for 2nd was assumed as .200

1864	10 P.M.			Dry ^{dd}	Wind		Thermometers		
May	E	A	Bar.	Hg ^g	Dir	Miles	Max	Min	
1	53.2	54	29.712	53.7 53.1	W.S	165.0	58.6	45	o g d
2	52 -	54.2	29.538	52.6 51.9	W	116.0	59.8	52.5	o g r. soft wet wind
3	49.9	54.2	29.672	50.2 49.9	W	55.2	60 -	46.8	o v KS
4	48.9	54 -	29.641	49.2 47.8	WSW	61.8	61.2	48 -	6 g KS S
5	47.2	54	29.656	47.9 44.8	SW	98.	60.2	45	6 v KC CK. KS, aurora.
6	43.8	53	29.636	44.2 42.3	SW	88.	61 -	42.5	6 v KS
7	46.7	53.5	29.698	47.3 43.8	SSS	20.	62	40.5	6 v 1 C. X
8	49 -	54.	29.520	49.5 44.5	ESS	185.	61	40	6 v q KS BS
9	47 -	51 -	29.666	47.5 45.2	ESS	154.	53.9	44.5	o g
10	48 -	54 -	29.804	48.2 44.5	E 1/2 N	156.	60	45.2	6 v 1 CK X
11	49.2	54 -	29.805	49.8 46 -	E 6 N	125.	59	43.	6 v BS KS
12	52.3	54.8	29.884	53 49.5	NNE	102.	61	41	o. v. KS
13	53	57	29.956	53.5 49	SW	58.	67.	49	o. v. KS? M 10", 28" summer?
14	58	57 -	29.945	58.5	S 1/2 W	57.	65	53	o. v. r KS
15	57.7	61.5	29.960	58.2 54.9	S 1/2 E	119.	71.4	54	6 v CK S
16	59.3	62.3	29.968	60.1 56 -	S	115.	73 -	52.5	o v CK BS KS
17	61.6	65 -	30.032	62.4 58 -	S	101.	74.2	58 -	6 v h
18	58	65 -	30.105	58.3 57 -	NNS	43.	79.2	57	6 v KS CK
19	64.3	68 -	30.064	65.4 59.8	WSW	78.	78 -	54.5	6 v KS lightning in N.W. dist. thunder
20	52.8	61.2	30.000	53.1 50.8	NW	69.	68	54	6 v. CK. KS
21	55 -	62	29.916	55.4 54.1	W 1/2 N	87.	64	53	o v KS
22	54.5	62	29.916	54.9 53	NW	56.	65.6	53	o v 2 KS
23	48.2	58.5	30.060	49.1 48.2	SE 6 E	73.	59 -	48.8	o v r N KS
24	52.1	60.	30.064	52.9 51.2	SSW	79.	64.	44.8	o v KS & C
25	47.4	55.5	29.920	47.2 44.2	NNW	90.	59.2	47.8	6 v KS
26	44.5	56.5	30.018	45 - 43 -	N 6 1/2 E	51.	60	42	6 v
27	48.5	56	29.903	48.9 46.3	NNW	59.	60.	38	6 v. KS, light near hor, mofine down
28	50.5	56.2	29.800	51.4 49.1	W 1/2 N	64.	61.2	41	o. v. KS. K
29	40.8	54.	29.920	47.5 39.2	NNW	74.	55.8	42	6 v. K. CK
30	39.7	50.	29.624	39.2 37.6	NNW	121.	58	37	6 v. CS. KS
31	43.	53.	29.681	42.9 41 -	NW	490	57.9	35.5	6 v (hms) K thick & dark bank NW to E
	50.84	56.95	29.845			2799.9 2799.9	62.98	46.53	

1864

10 AM

Rain

June	E	A	Bar.	Thg ^o	Dir	Miles	Sq	R	
1	51. 9	51. 2	29. 648	51. 5	NW	52. 1	—	—	6. v K Veg m killed. Dahlias topped. Has & M ¹ killed
2	54. 6	52. 2	29. 676	51. 6	N	22. —	—	—	4. v K X.S. CS
3	51. 7	52. —	29. 786	52. 2	NW	22. 2	—	—	6. v K Knocklaid visible
4	59. 8	52. —	29. 785	52. 1	WS	112. 1	—	—	6. v K (112. 1 = 24 hours)
5	51. 9	53. —	29. 418	52. 1	SW	125. 2	0. 019	0. 223	0. r q NS Bar clearing
6	62. 6	58. —	29. 749	52. 4	SW	79. 2	0. 033	0. 049	6. v K.G.XS. CS Knocklaid & very clear
7	62. 8	59. 1	29. 729	52. 5	WSW	105. —	0. 183	0. 200	6. v K
8	64. 7	59. —	29. 616	52. 8	SSW	113. —	0. 008	0. 018	6. v K. G
9	59. —	56. 2	29. 644	52. 6	WSW	46. —	0. 023	0. 020	6. v K
10	62. 2	56. 2	29. 672	52. 7	SSW	37. —	—	Trace	6. v. K
11	55. 0	55. 2	29. 270	55. 4	S	160. —	0. 240	0. 260	0. m. q Rain. Bar clearing
12	57. 7	55. 5	29. 462	52. 9	S	83. —	0. 050	lost	0. v KS B K
13	57. 8	56. 5	29. 374	53. 2	S	88. —	0. 070	0. 065	0. v KS
14	56. 8	56. —	29. 154	57. 6	SEBS	110. —	0. 440	0. 424	0. v. q KS
15	53. 2	55. —	29. 300	53. 8	SWW	141. —	0. 113	0. 149	0. v. m. r q. KS
16	57. 2	55. 2	29. 664	57. 6	SW	60. —	—	0. 008	0. v KS
17	61. 3	59. —	29. 718	54. 9	SW	151. —	—	0. 003	0. v. q KS
18	56. 8	58. —	29. 795	56. 2	W	131. —	—	—	6. v. q. r KS N in NE
19	58. 1	56. 8	29. 986	58. 8	SWW	112. —	0. 100	0. 090	0. v KS N in N
20	62. 7	60. —	29. 740	63. 7	SWS	191. —	0. 005	0. 020	0. v. m. r KS N
21	58. —	57. 2	29. 762	58. 2	SW	110. —	0. 029	0. 079	0. v q r KS BS
22	59. 6	57. 1	29. 825	57. 9	W/S	96. —	0. 235	0. 218	0. v. KS. CS. CK
23	47. 7	56. —	29. 714	47. —	NWWS	66. —	0. 354	0. 367	0. v? m. r KS. N
24	56. 9	56. —	29. 864	57. 3	SWW	138. —	0. lost	0. 205	0. v KS
25	62. 6	57. 2	29. 864	58. 7	W	76. —	0. 000	0. 011	6. v KS BS N B N halo bright
26	57. 2	57. 2	29. 860	57. 9	NW	70. —	Trace	20	0. v KS. K
27	59. —	57. 8	30. 093	52. 9	NWWS	59. —	—	—	6. v K
28	57. —	58. —	29. 890	52. 4	SW	80. —	lost	0. 110	0. m r KS. N
29	52. 7	56. —	29. 688	52. 9	SW	84. —	0. 078	0. 079	0. v? m. r KS. N
30	54. 2	56. —	29. 796	52. 6	WNW	129. —	0. —	0. 004	0. v r KS

57.41 56.15 29.685

2711.8

1.980

2.595

for 24th + 28th =

1.250

for 12th1980
315
2295

1864	10 P.M.				Wind		Thermom.			
June	E	A	Bar	Hyg'	Dir	Miles	Mo	Min		
1	45.5	53.5	29.669	45.7 43.6	N6W	58	59.2	39	6 v	K. KS
2	45	54.2	29.746	45.2 42.3	N	40.3	60	39	6 v	K. KS. C CS
3	42.5	54	29.804	42.8 39.8	N6W	<i>clock not up</i>	60.4	38.5	6 v	bank of purple strat N W & N
4	51.1	55	29.721	51.8 47.2	W6S	81.3	63.1	37.5	0 m	KS
5	52.2	55.5	29.550	52.8 48.8	SW6W	129.1	64	48	6 v	K. KS. KS clouds moving fast from SW - up N
6	59.2	59.2	29.695	58.2 55.2	S	89	66	51	6 v	K. KS fresh
7	54.3	59	29.699	52.3 49.3	S $\frac{1}{2}$ W	103	68.4	53	6 v h	K
8	50.2	55.5	29.623	51.2 49.2	SW	70	67	51.5	6 v	K C CS =70
9	48.9	56.8	29.685	49.8 48.8	N $\frac{1}{2}$ W	58	69	48.5	6 v	C. K. S Thunder at 5 PM
10	50.0	56.8	29.492	50.4 48.0	SW	155	66.2	44.8	6 v	KS
11	47.2	56.5	29.435	48.9 45.9	SW	131	62.2	47.5	6 v h	C trace of K
12	49.7	56.5	29.465	49.9 49.3	SE	113	63	46	6 v	KS C
13	50.2	57	29.273	50.4 48.1	SW	86	64.2	48.5	0 v h	C S KS round horizon
14	51.2	56.2	29.210	51.9 49.9	SW	154	60	50	0 v	KS
15	52.2	55.8	29.523	52.8 49.2	W $\frac{1}{2}$ N	18	60.2	49.5	0 v d	KS
16	59.2	59	29.724	60 57.5	S $\frac{1}{2}$ W	107	69	48	0 v	KS
17	52.3	59	29.739	53.1 50.2	SW	141	68.4	53.5	6 v	S
18	57	57	29.912	57.5 49.9	SW6W	120	63	49.5	6 v	KS
19	55.5	57.9	29.924	56.5 53	SW $\frac{1}{2}$ S	144	64.9	52.5	6 v	K. S. G. Clouds moving very rapidly
20	51.9	59	29.726	52.6 50.8	SW	261	68	52.5	6 v q	K. N in NW clouds moving rapidly
21	51.2	58	29.804	51.2 48.2	SW	116	63	49	6 v m	<i>in W. W. W. W.</i> C S. KS N in SE
22	51.3	58	29.748	52.6 49.6	SSW	68	63.6	49	0 v	KS
23	47.7	56	29.923	48.2 46.6	WSW	74	61.2	47	6 v	KS. C. S.
24	53.3	58	29.810	56.1 53	W	160	63.2	48	0 v	KS
25	55	58	29.833	55.9 53.8	W $\frac{1}{2}$ N	63	64.6	53	0 v	KS
26	49.1	57	30.021	49.5 46.8	NW	93	61	50	6 v	KS
27	55.9	59.8	30.085	56.6 54.2	NW6W	50	67.3	50	6 v	K
28	57.8	59.2	29.886	52.5 50	W6N	51	63	53	0 v	KS. C S
29	50.9	57	29.735	51.8 48.9	SW6W	107	63	51	0 v	KS
30	50.6	54.3	29.772	51.2 47.5	W	98	62.2	50	0 v	KS. C K at great height
	51.27	56.96	29.708			2968.7	63.78	48.08		

1864	10 AM			Wind			Rain		
July	E	A	Bar	Hygr.	Dir:	Miles	Sq	R	
1	54 -	56 -	29.788	54.3	W	64			a. v m r KS
2	57.7	58.5	29.324	57.9	SW	143	0.111	0.126	o. m r KS. X
3	56.1	55.8	29.582	56.7	NNW	86	0.521	0.522	b v KS. KS
4	61.1	57.	29.764	61.5	W $\frac{1}{2}$ N	92			b v K
5	58.	56.8	29.943	58.1	NW	68			b v KS. K
6	58.7	56.7	30.060	58.3	NW	21			b v CK K
7	58 -	58.	30.087	58.1	N	32			o v KS. K
8	57.3	58.	30.069	57.3	N $\frac{1}{2}$ E	37			o v KS.
9	60.6	58.	30.015	60.7	NNE	24			o v m KS
10	58.1	59.	30.020	58.9	NE	60			o. v g h KS
11	59.3	59.5	30.074	59.1	NE	65			o. m KS for smell
12	63.4	62	30.038	63.9	NE $\frac{1}{2}$ N	73			b m CK KS. S
13	60.3	60.5	29.985	61.7	NE	27			o. v. m. k. KS
14	62.2	62	29.979	62.7	NE $\frac{1}{2}$ E	27			o. m. K. C
15	61.2	61.8	29.986	61.4	N $\frac{1}{2}$ E	36			o v m KS
16	66.9	62 -	29.990	67.4	NNW	11			b h K
17	61.8	63.2	30.088	62.5	NW	18			o. v. KS
18	63	64	30.024	63.2	NW	11			o. v. m. KS
19	67.7	63	29.984	67.8	W $\frac{1}{2}$ S	49			b v K
20	66.	64	29.878	66.8	SW	97.5			o v m CK K
21	63.	64	29.568	63.8	WSW	156.	0.025	0.038	b? v d KS GS
22	59.1	62	29.509	61.5	WSW	119.	0.350	0.290	o v d KS
23	61.1	60	29.775	61.2	SW	99.			b v K
24	58.7	59.8	29.575	59.1	SW $\frac{1}{2}$ W	39.			o v K KS
25	59.9	59.4	29.465	60.2	SW	111.			o v KS
26	61.1	59.8	29.697	61.2	W $\frac{1}{2}$ NW	47.			o v K KS
27	64.3	60.5	29.687	64.3	SW $\frac{1}{2}$ S	166.5			b v K KS
28	66.7	61.5	29.436	67.8	SW	117.	0.037	0.040	b v K
29	65 -	61 -	29.784	65.6	SW	114.	0.155	0.115	b v K
30	65	62.2	29.834	65.3	SW	124.	0.507	0.606	b. v. CS. C. K
31	61.	62 -	29.796	61.8	SSW	96.			o v? m KS
	61.17	60.26	29.826			2230.0	1.706	1.737	Aurora at 11:45

1864	10 P.M.				Wind		Thermometers		
July	E	A	Bar.	Hyg?	Dir	Miles	Max	Min	
1	55.8	57	29.610	56.2	SW $\frac{1}{2}$ S	80.	64	49	6 W m r Kd
2	50.2	56.2	29.334	56.5	W	74.	61.9	51.5	0 on r Kd
3	51.6	57	29.750	52.2	W	94.	62	49.5	6 v Kd. C.S. C.H.?
4	52.6	59	29.865	53.2	W $\frac{1}{2}$ S	102.	67.8	51	6 v abank of Haze round Horizon
5	50.4	58.2	30.026	50.8	NNW	51.	64	49	6 v C.H. S -
6	52.8	59.8	30.092	53.0	N	42.	69.2	47	0. v. Kd
7	52.	59.8	30.093	52.5	N $\frac{1}{2}$ N	61.	65	51	0 v Kd
8	49.8	58.5	30.067	50.3	N	48.	63.3	52	6 v I round Horizon
9	53.6	61.	29.985	54.2	N	50.	68	50	0 v Kd
10	57.3	61.2	30.044	58.9	ENE	83.	68.2	53	6 v slight haze at horizon heavy dew
11	58.2	62.2	30.061	58.2	NE	77.	72	53	6 haze round horizon S.
12	54.5	61.	29.982	58.3	E6N	71.50.	71	53	6 h - light firm
13	53.9	61.5	29.963	58.8	ENE	37.	70	52	6 m C. S. back of haze r. horizon I think
14	53.6	63.5	29.991	54.2	N26N	51.	71.1	52	6 v C. S. Kd
15	62.8	61.	29.963	52.8	WNW	12.	69	53	6 m
16	60.5	65.2	30.045	51.3	N6E	38.	76	53	0 v Kd
17	60.3	65	30.069	51.2	NW $\frac{1}{2}$ N	30.	70.3	52.8	0 v Kd
18	61.9	64.2	29.981	63	NW $\frac{1}{2}$ N	9.	69.2	53	0 v Kd
19	61.4	64.3	29.906	62.5	SW $\frac{1}{2}$ S	68.6	72	54	6 v Kd S
20	61.7	65.5	29.685	58.8	S6W	118.	73.5	60	0 v d Kd
21	56	64	29.616	57	W	62.	69	57	0 v Kd
22	53.8	61.5	29.697	54.4	WSW	83.	68	52.5	6 v Kd C.H.
23	55.2	61.8	29.700	56	SW	260.	67.5	51	0 v Kd
24	54.2	60.5	29.543	54.4	SW	158.	66	54	0 v Kd
25	53.7	61	29.495	52.2	W	75.	66.4	53	6 v Kd C.S.
26	55.	61.	29.776	53.9	SW6W	50.6	65	53	0. v. Kd
27	56	61.	29.552	57	S6E	139.	67.5	54.5	0 v g Kd
28	54.1	59.	29.610	54.9	SW	151.	69	54.5	6 v Kd K Bright Aurora
29	59.5	62.	29.692	57.2	S $\frac{1}{2}$ W	180.	70.6	53.	0 v q Kd
30	59.3	62.5	29.856	59.9	SW	178.	72	52.5	6 v C.H. 6 Kd near horizon
31	54	60.	29.590	57.2	W6S	284.	69.2	54	6 v q Kd a spot intensely light west horizon a furious gale for 6 hours commencing at 2 pm
	55.67	61.14	29.827			2696.2	68.14	52.39	

1864	10 AM			Wind			Rain		
August	E	A	Bar	Hygr	Dir	Miles	Sq.	R	
1	60.2	60.	29.810	60.8 58.4	WSW	135	0.106	0.180	b v q KS CS — Aurora 1-4 M
2	59.9	59.2	30.000	60.2 53.2	NW	73	—	—	b v q X XS
3	59.7	58.4	29.881	60.2 54.8	SSW	49	—	—	o v ? m X XS
4	63.	59.5	29.712	63.5 58.2	SW W	106	0.102	0.102	o v XS R
5	58.2	59.5	29.878	58.2 57.7	WNW	11	0.258	0.264	o v ? m d XS
6	59.1	57.8	29.923	59.5 58.3	SW	100	0	0	o v CS C. XS bright halo
7	59.9	59.	29.734	60.4 58.9	SW S	97	0.075	0.074	o v m XS
8	61.1	59.2	29.729	61.1 58.	WNW	96	0.275	0.337	o v CK XS
9	58.5	57.4	29.666	58.5 52.2	SW W	63	—	—	o v XS. CS
10	56.6	57.	29.948	57.1 57.1	NW	104	0.008	0.016	o v XS. R
11	57.9	55	30.220	57.6 50.7	NW	37	—	0.003	b v X — grass was stiff this morning
12	65.	59.5	30.155	65.1 59.7	S E	45	—	—	b v C B L. S
13	65.7	63.2	30.190	65.8 58.9	SW	48	—	—	b v C. B S. S Halo were bright at 8.30
14	68.8	62.5	30.339	68.5 62.1	N E	103	—	—	b v Some streaks of l.
15	64.	64.3	30.395	64.8 61.2	N E N	54	—	—	b v ? h X very thick fog in the morning & night
16	63.8	63.5	30.214	63.6 60.1	N E	31	—	trace	b v ? h fog at 12 in the morning
17	57.5	62.	30.053	58.3 51.5	E N E	70	—	—	b v CK X slight rain at 5
18	58.	59.	29.891	58. 52.1	N E W	22	—	—	b v XS X
19	53.7	59.8	29.637	53.2 52.2	N N W	30	—	0.012	o m d XS N
20	58.2	57	29.712	56.2 29.3	NNE	28	—	—	b v. r. KS. K. N in west
21	51.9	54.4	29.808	50.8 48.2	N	26	0.081	0.075	b v XS. R. Hail at 9 AM
22	55.1	53.	29.877	55.4 49.	N E	34	—	—	b v X
23	54.	53.5	29.867	54.2 48.	N	31	—	—	b v X Knock laid visible
24	55.9	53.8	29.986	55.5 49.9	NW	37	—	—	b v r XS. CS. X
25	57.6	55.5	30.058	57.8 50.4	N E W	8	—	—	b v X
26	58.2	54.5	30.208	57.6 50.1	SSW	23	—	—	b v X
27	58.2	56.	29.996	58.9 53.6	SSW	109	—	—	o v CS. XS
28	61.2	57.8	29.826	61.6 57.7	W	62?	0.104	0.120	b v XS. C
29	62.8	62.	29.760	63.4 60.5	SSW	31	0.010	0.008	o v XS
30	62.8	62.5	29.500	63.1 57.8	SS E	144	0.800	0.740	o v XS. CS
31	57.8	58.1	29.472	57.8 52.7	WSW	176	0.409	0.487	b v q X. XS
	59.43	58.52	29.918			1982	2.228	2.418	

1864	10 AM				Wind		Thermo			
August	E	A	Bar	Hg	Dir	Miles	Md	Min		
1	51.1	60	29.925	51.5	W	117	65	53	6 v	KS CV
2	53.3	61	29.995	50.8	W	55	65.8	57	3 v	KS K
3	56.2	58.8	29.713	56.2	S	147	69	47	0 g d	many visible
4	56.2	60	29.839	57.2	W 1/2 S	143	67	55.5	0 v	KS
5	50.2	60	29.947	58.9	WSW	57	66.4	51.5	6 v	S
6	54.3	59	29.880	58.3	SW	119	66	48.5	0 g	Too gloomy for sky to be discerned
7	59	60	29.549	59.2	SW	183	66.9	52.5	0 g r	
8	57.8	56	29.785	52.5	W 1/2 S	77	64.9	52.5	0 v	KS
9	48.5	55	29.750	48.9	WSW	138	63.8	49	6 v	KS
10	45.5	57	30.156	46.1	NW	91	64	47	6 v	(Res. at 10 th 50' for mist. v. a. book)
11	55.9	60	30.194	50.3	SSW	46	67.4	42	0 v	KS
12	53	59.8	30.136	53.5	SW	105	72	53.5	6 v. C. S	
13	54.8	64	30.261	55.2	NW	not wind	73	51	6 v	at 10 th 40"
14	58.9	64.2	30.390	57.9	NNE	40	76	57	6 v haze	
15	57.2	66	30.328	58	NNE	64	74	56	6 v haze	
16	56	65.2	30.104	56.6	N 1/2 E	70	71.3	54.5	0 v	KS
17	48.8	57.5	29.985	49	NE	91	63	49.5	6 v	C. S
18	49.9	61.5	29.762	48.2	N	36	65.6	47	0 v	C. S
19	48.9	59	29.682	49.1	N 1/2 W	64	65	48	6 v	C. S
20	46.4	57	29.760	46.8	NW	28	60.8	42	6 m v.	C. S KS Hail 11 th A.M.
21	42.2	57	29.866	47.7	N 1/2 W	53	62	41	6 v	a meteor of 2 tails at 9 10'
22	43.9	55.8	29.856	43.9	N	73	62	39	6 v	
23	44.7	52	29.922	44.8	NW & N	79	60.6	42	6 v	
24	49.2	57	30.008	49.9	W 1/2 N	30	68	48.5	0 g	
25	45.2	52.8	30.135	45.8	N 1/2 W	45	64.3	47	6 v	bright blue
26	51.3	56.2	30.143	51.8	S 1/2 E	74	66	39.5	6 v h	very NW wind streamer about
27	57.8	58	29.829	57.1	SW	167?	63	48.5	0 g	vane scarcely discernable
28	57.9	59.1	29.784	58.4	WSW	18	67.4	54.5	0 g	
29	57.3	62	29.690	57.8	N 1/2 W	95	72	57	6 v g	KS. C. S covering the whole sky stars seen through
30	54	60.2	29.339	54.8	W 1/2 S	69	65.9	53.5	3 g	heavy rain from 3.30 to 6.15
31	48.1	57	29.596	48.5	SW	168	63	47	6 v	a few heavy showers during day Aurora
	51.21	58.75	29.913			2 538	66.25	48.60		

1864	10 AM				Wind		Rain		
September	E	A	Bar	Thg	Dir	Miles	Sq	R	
1	58.4	55.9	29.564	55.9 53.8	SW	127	0.043	0.043	0 v q - KS CS
2	62.1	60.	29.520	62.1 58.9	WSW	101	0.115	0.157	6 v + CS - KS
3	56.9	58.5	29.438	56.5 53.8	SW & W	92	0.264	0 lost	0 v KS N & W & SW
4	57.4	56.4	29.665	57.3 54.1	SW & W	78	0.254	0.210	6 v CS KS K
5	56.5	56.5	29.683	56.6 51.1	W & S	180	0.116	0.145	6 v q KS K N & S W & S W & S
6	61.	57.	29.547	61.2 60.8	SSW	100	0.203	0.225	0 v KS
7	55.	55.2	29.714	55.6 53.	SSE	48	0.050	0.070	0 m d CS KS
8	59.	59.	29.705	59.2 55.5	WSSE	235	0.020	0.037	0 v q CS KS
9	61.	61.5	29.236	61.8 55.8	SW	306	0.450	0.560	6 v q KS K N & NW Bar heavy rain
10	55.6	55.2	29.660	55.9 52.7	SW	132	0.007	0.002	0 v KS
11	54.7	53.5	29.662	54.8 50.1	W	79	0.276	0.266	0 v CS KS
12	55.8	55.	29.871	55.8 52.9	WSW	47	0.085	0.065	6 v KS K
13	59.9	55	29.598	60.1 56.8	SW & W	134	0.071	0.068	6 v KS K
14	54.8	56.2	29.117	53.9 50.8	W & S	157	0.345	0.400	6 v K. KS. C 3 1/2 inches of rain to the west of the bar
15	53.7	54.	29.183	53.9 50.9	S & W	157	0.094	0.100	6 v K. C
16	48.8	53.	29.062	48.1 47.2	N & E	18	0.058	0.062	6 v K. C.
17	54.9	55.2	29.135	54.9 50.2	SW & S	76	0.003	0.002	6 v q K. C.
18	54.8	55.	29.208	55.1 51.1	SW	179	0.035	0.031	6 v q KS. K
19	55.	53.8	29.574	55.4 51.	WNM	89	0.153	0.174	6 v KS CK
20	52.8	52.5	29.568	53.1 50.5	S	73	0.018	0.002	0 v KS
21	58.8	54.9	29.380	59.9 52.9	SSW	113	0.108	0.150	6 v q K KS
22	57	55.6	29.350	57.3 53.3	SSW	189	0.090	0.236	6 v q K KS
23	55.9	53.5	29.662	56.1 53.2	SSW	136	0.022	0.012	0 v m d KS CS
24	54.4	53.	29.964	54.4 51.2	W	61	0.064	0.059	6 v K
25	57.9	56.	30.061	58.1 55.1	S & E	127	0.	0 trace	0 v h KS
26	59.1	59.2	30.084	59.7 56.7	S	133	0.	0.	6 v K
27	61.5	59.5	30.053	61.5 58.1	S & E	112	—	—	6 v K CK fine air' and 1.3 AM
28	56.	57.	30.218	56.3 54.5	W	34	—	—	0 v? m KS fog all morning
29	59.9	56.2	30.091	60.1 56.2	NW & W	40	—	—	6 v S C CK CK iridescent
30	54.1	57.2	30.008	54.5 52.5	ESE	31	—	0.003	0 v KS aurora at 1 AM
	56.76	56.02	29.620			3378	2.944	3.323	

1864. The square gauge for the 3rd was used in summing up the Round one.

1864	10 P.M.			Wind			Thermom ^{ts}			
September	E.	A.	Bar	Hyg	Dir	Miles	Max	Min		
1	56-	58	29.475	56.6	SW	234	64	48	o g	KS
2	51.5	58.5	29.522	52.4	SWWS	48	65	51	o v	KS
3	50	58.	29.558	52.6	WS	84	65.3	51	6 v	KS
4	49.9	56.	29.500	50.3	WSW	162	60	47	6 v	CK
5	50-	58.5	29.845	49.4	WSW	120	63	48.5	6 v	KS stars dull
6	47.6	56.	29.723	50.5	WSW	127	66.8	48.5	6 v	KS in NW, slight aurora
7	62.2	61.	29.532	49-	SW	137	66.8	48	6 v	66.8
8	54.2	60.	29.480	47.3	S	141	65	52	o g.	darkness intense r
9	48.6	56.	29.744	62.9	SSW	221	66	49	6 v	
10	46.9	54.6	29.591	54.2	WSW	270	60	46.5	6 v	KS Col above
11	48.2	54.8	29.815	47.1	W $\frac{1}{2}$ N	69	61	41.5	o v	KS
12	50.9	56.	29.721	46.9	S	77	60.4	45	o v d	KS
13	51	57.	29.415	48.2	SSW	90	62.5	39.5	o v r	KS
14	44.4	53.1	29.202	47.2	SSW	103	61.1	45.	6 v	diffused aurora.
15	49.3	56.	29.117	49.9	SE $\frac{1}{2}$ S	116	61.2	43.5	o v	KS
16	45.2	56.2	29.087	47.7	SW	40	61.	39.	o v	KS 68
17	49.5	55.6	29.172	46-	SWWS	191	60.2	41.6	o v	KS
18	48.2	52.2	29.387	44.9	W	162	58.2	49	6 v	KS C. KS
19	48.	54.8	29.695	42.7	W $\frac{1}{2}$ S	64	59.2	45.5	o v	68 KS
20	48.2	55-	29.465	42.4	W	81	57.3	46	6 v	S aurora & moonlight
21	49.2	56-	29.834	48.7	SW	128	62.8	46	6 v	GS C CK rather str. aur. in NW
22	47.8	54.3	29.538	49.8	SW	131	62.2	48	6 v	aurora strong arch
23	51.3	55.2	29.677	48.8	SW	150	59	46	6 v	KS aurora behind cloud
24	50.8	56	30.072	47-	S	42	66	44	6 v	S round horizon trace of aurora
25	57.5	60	30.092	50.9	SE	133	65.2	43.5	6 v	KS
26	54.8	58.2	30.021	48.7	SE	142	65.2	54	6 v	S round horizon
27	49.9	60.2	30.109	55-	SW	120	67	51.5	6 h	S faint aurora
28	46.5	57-	30.210	54.	NWWS	47	62	47.5	6 h g	S?
29	53.4	59	30.033	50.14	NW	47	66.1	46	o g	NB - at 10 30'
30	49.8	56.2	29.965	49.8	SE	51	58.8	48.5	o g.	
	50.37	56.74	29.636	49.1		3,328	62.42	46.38		

1864	10 AM			Temp	Wind		Rain		
October	E	A	Bar	Hg.	Dir	Miles	Sq.	R	
1	56.5	56	29.931	59.2	SE	64.	—	—	o v? m KS K
2	57.2	56.1	30.128	57.2	E $\frac{1}{2}$ N	61.	—	—	6 v KS CK
3	57.6	54	30.195	52.2	SESE	93.	—	trace	6 v q KS. G. K
4	50	52	30.021	50.6	SE	138.	—	—	6 v q K
5	51.8	58	29.961	52.2	SE	97.	—	—	6 v q K
6	54	52.1	30.012	50.3	ESE	274.24	—	—	6 v K
7	52.6	52.2	30.140	53.8	E	62.	—	—	o. v. h. CS. KS Halo
8	53.8	52.9	30.110	54.1	NEbN	56.	0.011	0.006	6 v. KS.
9	52.8	53.2	30.098	53.2	NSE	64.	0.000	0.002	6 v. K. KS.
10	50.2	50.4	30.241	50.3	EbS	3.	—	drops	o. v. m. K. KS.
11	48.	50.4	30.297	49.1	NW	16.	—	—	o. v. m. K. KS. S
12	50.7	51.	30.245	51.2	NW	37.3	—	—	o. v. KS. S
13	52.2	51.	30.053	48.5	NW	59	—	—	3 v KS K
14	53	52.4	29.995	51.2	NW	43	0.058	0.050	6 v KS K
15	50.5	50.2	29.955	50.4	NWbW	28	—	—	6 v h BK. K.
16	52.1	51.2	29.442	50.9	SW	168	—	0.002	o v? m r q KS
17	50.2	51	29.287	50.3	SW	173	0.048	0.065	6 v q K
18	45.7	48	29.348	45.7	SW	132	0.021	0.017	6 v BK. B. S.
19	45.8	48.8	28.941	45.8	NbW	56	0.295	0.346	o m r N
20	42.8	47.5	28.782	41.5	WSW	486	0.490	0.544	o v q r KS. N Bar: heaving much
21	42.7	44.4	29.333	42.8	NE	56	0.105	0.132	o. v. h. q KS
22	48.1	47	28.898	48.9	NE	222	0.262	0.390	o. v. m. q. r KS N
23	45.	46.8	28.996	44.9	NbW	232	0.225	0.349	o. v. q KS
24	46.	46.	29.214	46.3	NNW	116	0.172	0.199	o v KS Wind peculiarly sonorous like thunder
25	47.2	47.	29.410	47.7	NE	142	0 trace	—	o v q h BK. KS. Halo
26	50.1	48.2	29.254	50.4	NE	138	0.020	0.023	o v q? KS
27	48.6	48.9	29.314	48.3	NE	150	0.098	0.138	o m r
28	49.7	49.	29.428	49.8	NE	165	0.316	0.376	o v q KS
29	53	50	29.603	53.8	NE	121.	0.334	0.420	6 v h KS K
30	50.4	50.	29.879	51.3	EbN	81.	0.030	0.025	o. v. K. KS. CS. S at 40.17
31	48.	48.8	30.045	48.7	EbN	38.	0.	—	o. v. KS. S.
	49.49	50.47	29.695			3201	2.485	3.084	

1864	10 P.M.			Dry th	Wind		Heat		
October	E	A	Bar	Hyg	Dir	Miles	Max ^m	Min ^m	
1	44.3	54.	30.002	44.9	E	86.	61	44.	6 haze
2	46.2	53.	30.190	43.7	E	79.	55.8	43.5	6 h. rather gloomy
3	47.9	52.5	30.093	46.4	E S	144.	56	43	10 g KS? a few stars at zenith
4	45.8	52.	29.954	45.1	E	153.	58.2	45.	6 KS dark remote horizon
5	47.3	52.2	29.975	43.	E		56.1	43	6 v
6	43.1	52.8	30.076	47.3	E S	86.	57.2	44.4	6 v. s mist at horizon
7	44.	52.2	30.103	43.3	S S E	75.	56.1	42.	6 v. s.
8	42.4	52.8	30.080	43.7	S S E	74.	57.4	43.	6 v
9	41.1	52.	30.143	42.4	E S	58.	56.1	42.	6 v. K. Ks.
10	47.2	50.2	30.311	41.5	S S E	12.5	54.8	39.6	6 v. Ks. S.
11	47.	51.	30.285	40.5	N W	40.	53.	45.5	0 v. Ks. S.
12	49.1	51.2	30.150	47.5	N W	51.	54	46.8	0 v Ks
13	50.3	52.	30.008	45.5	N W	70.	55.6	48	6 v d Ks K
14	44.6	51.	30.004	48.2	N W	43.	57.9	45.5	6 v K. S.
15	46.5	51.2	29.757	44.5	S W	76.	56	42	0 v G. K. K. Ks
16	46.1	51.	29.324	46.3	S W	159.	56.8	41.5	6 v Ks K
17	42.2	49.	29.280	45.4	S W	179.	57	44	6 v K S
18	45.6	49.4	29.319	41.8	S W	106.	53.7	39.7	9 v K. Ck.
19	44.2	48.2	28.704	46.1	N W	103.	50	42.5	0 v Ks W N W
20	35.5	47.	29.264	44.2	W S W	101.	50	37.	6 v h
21	41.	45.	29.141	43.8	N E	236.	45.5	34.5	6 g r
22	47	48.	28.892	40.8	N S	249.	52	40.5	6 g r heavy gale
23	43	46.	29.100	47.3	N N E	169.	50.3	42.5	0 g r
24	46.2	47.	29.332	44.4	N E	144.	49	42.	0 v 2 g Ks
25	45.2	47.	29.345	42.8	N E	135.	50.5	43.5	0 g
26	50.8	49.	29.262	43.7	N E	140.	52.9	51	0 g
27	46.9	48.5	29.397	45.7	N N E	136.	54.8	43	0 g r
28	49.3	49.	29.433	44.	N E	113.	53	46.5	0 g r
29	50.	50.5	29.723	49.9	S S E	100.	56.	49.6	0 g drizzle
30	45.	49.1	29.968	50.	E S	87.5	53.7	45.4	0 v. Ks.
31	41.	49.	30.054	45.5	E S	41.	50.	41.6	63.9. Ks.
	45.35	50.74	29.731	43.6		3246	53.96	43.02	

1864	10 AM			Dir.	Wind		Rain		
Noon	E	A	Bar	Hyg.	Dir	Miles	Sq	R	
1	45.6	46.4	30.098	46.4	EbN	26.	—	—	b. r. m. K. KS. S
2	43.8	52.	30.135	43.6	EbN	19.5	—	—	b. r. m. C. CS. S.
3	46.8	46.3	30.174	46.4	EbN	47.	—	—	b. m. CK. K
4	45.1	44.3	30.221	43.3	S	99.0	—	—	b. m. Ck. Kd = 99.0 miles
5	49.7	48.	30.259	49.9	NbE	70.	0.044	0.030	0 m d
6	39.1	53*	30.542	39.1	ENB	34.	—	—	b. m. C * Sun had reached A by side
7	42.3	44.	30.193	42.4	SWbS	134.	0.026	0.026	0 m d KS?
8	45.6	49.9	30.023	46.2	N	12.	0.060	0.070	b. v. K KS
9	39.1	42.5	30.077	39.1	NEbE	20.	0.010	0.012	0 m K KS
10	38.1	43.2	29.923	38.2	NE	6.	0 trace	trace	m (fog)
11	39.9	43.	29.758	40.2	NE	5.	—	—	0 f Kd
12	39.	42.8	29.515	39.2	EbS	52.	—	—	0 v m Kd K
13	48.	46.	28.816	48.4	SbE	273.	0.316	0.365	b. v. CS KS. C (432)
14	44.8	46.2	28.248	44.8	WbN	132.	0.727	0.970	0 v r q Kd at 11:30 = 26.2 mi
15	42.5	46.2	28.745	42.5	NbE	83.	0.264	0.327	b. v. m S. b. K. K
16	41.	44	29.212	41.7	N	32.	0 trace	—	b. m S
17	51.	46.4	28.574	51.	SE	261.	0.524	0.457	b. v. q Kd - N in SW
18	46.8	46.8	28.796	47.2	W.YW	117.	0.213	0.227	0 v. q. Kd. N in WSW
19	50.1	46.	29.345	50.2	SEbS	165.	0.026	0.038	0 v KS. K
20	48.7	48.	29.263	48.6	SWbW	150.	0.450	0.572	b. m Kd CS 150
21	46.	46.	29.386	46.5	SE	126.	0.235	0.210	0 v. m q r Kd N
22	41	45.	29.197	41.3	WbS	115.	0.126	0.145	b. v. q Kd. b. S
23	38.2	41.5	29.284	38.5	SWbS	136.	0. drop.	0. drop.	0 m Kd
24	34.8	41.3	29.232	34.9	NW	99.	0.013	—	fog * Squ was not measured
25	35.6	37	28.780	35.8	S	135.5	0.015	0.006	b. m r. Kd. Hyg. water frozen
26	40.	40.	28.759	40.	SW	166.5	0.421	0.443	b. v. r Kd. C therm. at 10.25
27	39.1	39.8	29.364	39.2	SWbS	140.5	0.028	0.018	0 v Kd S in E. K. EbN
28	42.6	45.2	29.160	42.2	NW	91	.442	0.768	0 v. V
29	39.5	41.1	29.841	39.5	SEbE	173.	0.386	0.109	b. v. q. S. KS. CS.
30	42.9	45.	29.475	42.5	SWbS	320.	1.350	1.386	b. v. q. K. DK. at 10.22
	42.89	44.90	29.480			3248	5.663	6.192	

1864	10 P.M.			Stm ^w	Wind		Heat		
November	E	A	Bar	H _g ^g	Dir	Miles	M ^m	M ^m	
1	43.7	48.2	30.133	44.1	EbN	49.	50.5	41.5	o. g. KS. K.
2	35.	45.1	30.113	35.4 34.4	ESE	27.	49.6	36.4	b ₁₀ v. aurora
3	36.	45.	30.213	36.3 35.2	E	31.2	51.2	35.7	b v bank of K road long slight Aurora -
4	47.	47.5	30.177	47.3 46.3	SSW	140.	51.7	35.5	o g d
5	39.1	46.5	30.436	39.2 38.9	ENE	49.	53.6	40.	b v
6	38.	44.	30.455	38.2 38.	SSW	66.	48.	30.	b v G. K
7	44.1	46.	30.034	44.4 44.4	SW	97.	47.1	37.6	o m KS
8	38.	45.1	30.092	38. 37.1	SE	45.	48.1	39.	b. m. S
9	34.5	42.5	30.005	34.8 34.7	SE	5.	44.3	33.5	o. m
10	39.4	43.1	29.837	39.3 39.1	SE	6.	44.1	33.9	o. m KS.
11	37.7	43.	29.644	38.6 37.	SEbS	20.	46.4	38.6	o. f. K.
12	43.5	44.4	29.170	43.4 43.3	SE	159.	47.2	43.5	b v. CS. C. KS faint halo all the sky filmy
13	46.7	47.	28.418	46.9 46.	ENE	151.	53.2	42.5	o v r KS 3:30 PM large brill ^t halo
14	43.7	45.3	28.389	43.9 43.8	SE	112.	50.8	41.5	b. v. KS.
15	41.6	45.1	29.038	41.2 40.9	N	48.	48.3	38.8	b. v. K.
16	36.1	42.3	29.147	36.8 36.1	SEbS	52.	47.2	36.1	b. v. m. CK-K. CS halo Cal 11.45 PM
17	45.1	46.4	29.433	45.4 44.	SEbS	245.	52.7	36.6	b ₁₀ v.
18	40.5	45.	29.381	41. 38.5	WbS	232.	51.	41.	b. v. CK. KS.
19	48.4	48.8	29.213	48.6 48.6	SE	228.	48.4	39.4	o. m. g. 2 g.
20	42.	47.6	29.498	42.3 42.2	SW	39.	53.2	42.	b v S
21	43.8	46.3	29.387	44.1 43.3	SW	135.	51.7	39.	o. g.
22	36.	42.5	29.284	36.2 35.5	SW	143.	49.	36.	b. v. KS.
23	37.2	42.5	29.316	37.4 36.4	WbS	31.	43.3	34.5	o. g. KS.
24	31.8	39.6	29.095	32. 31.8	SW	46.5	41.2	30.3	fog.
25	36.8	40.2	28.460	36.2 36.2	SW	222.	46.4	29.1	b o. r. KS. C
26	36.5	40.2	29.086	36.6 35.7	SSW	172.	45.	32.5	b v
27	49.8	45.	29.181	49. 49.	S	227.	53.	34.4	o g fresh warm soft wind
28	36.8	42.	29.687	37.2 35.8	SWbW	139.	52.8	37.5	b. v. g.
29	46.4	45.6	29.595	46.4 45.8	S	311.	49.7	34.6	o. g. heavy & beating rain. storm.
30	41.7	43.3	29.679	42. 40.7	SWbS	273.	50.	39.6	b. v. g. CS. KS. S.
	40.63	44.80	29.486			3500.5	45.56	36.73	

1864	10 till				Wind		Rain				
Dec	E	A	Bar	Hgs	Dir.	Miles	Sq.	R			
4	1	41 -	42.5	29.800	41 -	SW6W	228	trace	—	6 v —	L round hori ^z
	2	44.1	43.2	29.952	39 - 7	SW W	149	0.006	0.003	6 v? m-d	KS
	3	51.6	48.	29.776	43.4	SSW	234	0.300	0.397	0 v m q	KS.
①	4	52.8	51.	29.673	51.8	SW W	272	0.250	0.428	0 Y. q.	KS.
	5	51.	51.1	29.642	51.1	SW	225	0.058	0.153	0 Y.	K. S. CS
	6	42.3	46.2	29.686	49.6	SSW	158	0.002	0.001	6 v m	S. K. BL
	7	47.3	48 -	29.340	41.9	SW6S	255	0.315	0.417	6 v m	KS. BK. CS 10+21
	8	37.8	43 -	29.325	47.9	SSW	151	0.008	—	6 m	6 S. B. CS to a thin film covering sky
	9	35.1	40.2	29.473	36.9	SSW	104	—	—	6 f	some streaks of P
	10	40.	42 -	29.460	35.1	WNW	11	0.075	0.055	6 f	K KS
①	11	48.8	47.	28.992	40 -	S	328	0.251	0.298	0 r	inc. to KS in NW (10.25) (610 miles)
	12	42.2	43.2	29.150	39.3	S	154	0.187	0.223	6 v h	at 10 45 rain had cleared clear blue KS in NW
	13	45.9	44.8	29.293	48.4	SE6S	177	0.158	0.135	6 v	KS. CS halo
	14	42.7	43.2	29.618	42.7	N	32	0.108	0.085	6 v	KS
	15	39.6	43 -	29.604	46.1	E	27	0.070	0.075	6 v? m	KS black fog 4 E
	16	37.9	41 -	29.688	43.	NE	41	0.013	0.010	6 v m	KS
	17	36.3	39.2	29.870	39.8	N6E	88	trace	—	6 v h	BL K
①	18	31.3	39.	29.670	38.1	E	109	0.130	foggy	6 v h	KS N
	19	34.	37 -	29.570	36.2	NE	39	foggy	foggy	6 v m	KS
	20	38.1	38 -	29.693	34.4	WNW	86	0.100	0.224	6 v m	KS
	21	34.6	36 -	29.974	32.2	N	54	—	—	6 v h	K
	22	37.1	37.2	30.067	32.9	NE	70	0.016	—	6 v? m d	KS
	23	36	38.8	30.237	37.1	SE	111	—	—	6 v m	KS
	24	32.1	36 -	30.371	36.2	SW	50	—	—	6 m	BK most beautiful
①	25	27.1	33.6	30.242	33.7	SW6S	38	—	—	6 f	KS
	26	25.5	32.1	30.090	32.1	SW	49	—	—	6 f	KS
	27	35.6	36.	30.092	27.	SW6S	80.	0.026	—	6 f	KS
	28	43.4	38.5	30.087	26.9	SW6S	105	0.039	0.043	6 f	perhaps K above
	29	42.3	40.2	29.958	25.2	SSW	91	trace	—	6 v m	KS
	30	42.1	41.3	29.660	25.2	W6S	213	0.015	0.028	6 v d	KS fine aurora at 12 PM
	31	32 -	37.8	29.645	35.3	SW6S	49	—	—	6 v? m	BK K
		39.92	41.23	29.732	32.7		3578	2.122	2.577		

1864	10 P.M.				Wind		Heat		
Dec ^r	E	A	Bar	Hyg	Dir	Miles	Max	Min	
1	39.7	44.	29.970	39.9	SWWS	151	47.8	38.5	bv ^{far} Kd in sing. rays from point in NW
2	48.5	47.	29.772	39.9	SS E	240	50.5	37.5	o.g. q.d.
3	51.3	50.1	29.725	48.4	SSW	248	55.	48.5	o.g. q.d.
4	51.8	51.4	29.641	51.7	SW	283	56.1	51.	o.g. q.d.
5	46.1	48.4	29.581	52.2	SW	155	55.	45.4	o.v. KS.
6	45.1	46.6	29.441	46.7	S	205	50.1	40.5	o.v. q. v. KS. Bar: Raining
7	38.7	45.	29.337	45.5	S	106	51.1	39.4	b.v. S.
8	35.5	44.9	29.321	44.9	SSW	102	44.9	36.	1/2 v. S in SW.
9	33.2	40.8	29.559	37.9	WSW	49	40.1	30.5	o.f. KS. halo O in afternoon
10	46.2	44.8	29.248	35.1	S	282	49.	33.5	o.v. q. KS. K.
11	42.9	44.8	29.074	46.8	SE	219	52.2	42.5	o.v. Cd. Kd halo
12	40.6	44.1	29.137	44.3	SE	131	48.6	40.	b.v. KS. K. CS.
13	42.7	44.2	29.441	40.7	SE	120	49.9	41.	5/8 v. KS CX CS
14	38.	43.1	29.675	39.2	SE	60	48.1	38.5	o.m. KS.
15	38.1	42.	29.570	42.9	NE	75	42.	37.2	o.v.
16	37.2	40.1	29.865	38.4	SE	128	43.	36.6	o.v. KS.
17	36.9	39.1	29.731	37.8	SE	115	41.	34.1	o.v. KS.
18	31.5	37.2	29.596	37.1	SE	100	40.	30.6	b.v. KS. Hyg frozen
19	33.5	37.	29.498	31.5	SE	74	38.	29.6	o.g.
20	29.7	36.6	29.855	30.8	SW	49	40.7	30.	b ₁₀ haze all round horizon
21	33.5	37.3	30.051	31.9	SE	69	41.	30.1	o.g.
22	37.5	38.	30.120	29.4	SE	105	40.4	33.5	o.g.
23	34.8	37	30.328	33.7	SE	46	42	34	o.g.
24	26.4	34.1	30.312	32.6	SWWS	57	38.	27.5	b ₁₀ f. aurora or else fog luminous Hyg ² frozen
25	23.5	32.5	30.160	26.9	SW	55	32	24.	f. some stars visible near Zenith. D ²
26	35.3	35.4	30.064	23.4	SW	103	38.5	23.1	o.g.
27	39.1	38.2	30.008	35.4	SW	127	42.	32.	o.g.
28	41.	40.	30.062	35.2	SSW	255	47.	38.	o.g.
29	42.9	41.2	29.775	39.4	SWWS	221	46.1	41.2	o.g.
30	31.9	40.	29.754	42.1	W	65	46.	31.2	b. m. K. KS.
31	33.1	38.	29.619	40.9	SW	72	40.	29.6	o.g. sleet.
	38.27	41.37	29.752	32.4		4061	44.80	35.38	
							45.06	35.65	

1864	10 A.m.			10 P.m.			Rain		Thermometers	Maximum	Minimum
	E	A	Bar: ^{reduced to 50°}	E	A	Bar: ^{reduced to 50°}	square on Lawn	Globe on Roof			
January	38.50	39.99	29.847	37.85	40.53	29.833	1.815	2.469	22 all winter Summer	52° on 31 st	18° 5' - 7 th
February	36.09	38.21	29.716	33.34	38.54	29.738	1.331	1.896		53° " 13 th	22° " 22 nd & 23 rd
March	42.44	40.74	29.465	38.28	41.61	29.475	2.300	2.217		54.2 " 14 th & 17 th	26.5 " 9 th
April	51.86	49.66	29.838	46.62	50.24	29.844	1.971	1.970		66.8 " 23 rd	30.2 - 2 nd
May	56.66	56.30	29.843	50.84	56.95	29.864	1.858	1.800		79.2 " 18 th	35.5 - 31 st
June	57.41	56.15	29.668	51.27	56.96	29.688	1.280	2.645		69° " 9 th & 16 th	37.5 - 4 th
July	61.17	60.26	29.798	55.67	61.14	29.797	1.706	1.737		76° " 16 th	47° " 6 th
August	59.43	58.52	29.895	51.21	58.75	29.890	1.982	2.228		76° " 14 th	39.5 - 26 th
September	56.76	56.02	29.603	50.37	56.74	29.619	2.944	3.323		66.8 " 6 th & 7 th	39. - 16 th
October	49.49	50.47	29.694	45.35	50.74	29.730	2.485	3.084		61° " 1 st	34.5 - 21 st
November	42.89	44.90	29.493	40.63	44.50	29.486	5.663	6.192		54.7 " 17 th	29.1. 25 th
December	39.92	41.23	29.755	38.27	41.37	29.775	2.122	2.577		56.1. 4 th	23.1 26 th
Summer.	56.82	56.29	29.748	50.78	56.87	29.766	12.255	14.817			
winter.	42.01	42.44	29.686	39.17	42.80	29.694	15.202	17.321			
Year.	49.29	49.39	29.719	45.01	49.87	29.730	27.457	32.138			

	Rain days	mean Ther ^m	mean Barometer
Jan ^y	19.	38.18	29.840
Feb ^y	12.	34.72	29.727
Mar	19.	40.36	29.470
April	11.	49.19	29.841
May	16.	53.75	29.854
June	22.	54.34	29.678
July	7.	58.42	29.798
Aug ^t	13.	53.32	29.893
Sept ^r	26.	53.57	29.611
Oct ^r	16.	47.42	29.712
Nov ^r	20.	41.76	29.489
Dec ^r	16.	39.10	29.765
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Mean Temperature of Year = 47°.15
 Maximum 18th May = 79°.2
 Minimum 7th Jan^y = 18°.5

Mean Barometer = 29.725
 Max^m 6th Nov^r = 30.542
 Min^m 14th Nov^r = 28.248