

1870	10 Ark			Hydro	Aremo		Ombro				
January	E.	A	Bar	Dry wt	Dir	Space	Sq	Q			
1	43.8	40.6	28.919	39.8	S	43	0.075	0.098	0	dy	K
2	36.8	39.8	29.283	37.2	S.W	19	—	0.003	4	S	CS
3	39.9	40.6	29.309	40.5	SSW	132	—	0.004	0	m	K
4	43.7	40.9	29.069	43.9	SSW	190	0.098	0.018	0	p	K
5	35.6	38.7	29.400	35.3	SW	137	—	0.027	0	gm	K
6	40.3	39.8	29.278	40.2	SW by S	135	—	—	0	gm	KCS
7	38.2	39.5	29.009	38.9	SW	221	0.404	0.492	86	v	CS
8	41.6	41.8	28.524	40.7	NW	178	0.218	0.239	0	ym	KS
9	41.9	40.8	29.310	42.4	NW	118	—	0.032	36	V	CS
10	31.4	41.8	29.664	31.2	S.W	61	—	—	106	v	
11	36.1	36.9	29.462	36.1	S	159	0.175	0.231	0	r g. v.	KS
12	32.1	35.2	29.474	32.2	W S W	190	—	—	0	snowing	K Snow on ground
13	33.2	35.4	29.532	33.5	SW	120	—	—	0	snow on ground	KS partial thaw.
14	38.9	39.2	28.900	38.7	S	209	—	0.604	96	gone	CS
15	42.3	40.6	29.464	42.7	S.W	143	0.150	0.305	46		KCS
16	48.4	43.1	29.874	48.3	S	118	0.073	0.097	0	f	K
17	46.8	44.8	30.210	46.3	SS E	108	—	—	0	f	K
18	45.9	45.	30.309	46.5	S.W	109	—	0.061	0	df	KS
19	40.2	43.1	30.344	40.4	E	34	0.022	0.028	0	f. g.	K
20	35.1	39.6	30.390	35.3	N E by E	73	—	—	0	v g	KS
21	33.	37.3	30.249	33.1	N	10	—	—	0	m g.	K
22	33.8	36.3	30.244	33.2	SW by W	29	—	—	0	f	KS
23	36.1	37.9	30.333	36.1	W by NW	29	—	—	56		K
24	31.9	36.	30.333	31.9	NW	6	—	—	106	m	
25	28.4	32.7	30.292	28.8	W NW	22	—	—	0	f	KS
26	33.1	34.8	30.150	33.4	S	64	—	—	106	v	
27	36.6	35.1	29.949	36.3	S	115	—	—	76	v	K.C.S
28	39.4	38.2	29.839	39.8	S	202	—	—	0	v	KS
29	39.9	39.	29.672	40.1	SS E	270	—	—	46	v	KCS
30	43.5	40.9	29.340	43.8	S.E	367	0.002	0.019	0	r	K
31	43.9	42.4	29.050	42.2	S.E		0.893	1.442	96	v	KS

37.08 38.85 29.646

2.110 3.710

1870	10 P.M.			Hydro	Anemo		Thermo					
January	E	A	Bar	Wet Dry	Dir	Sp	Max	Min				
1	39.8	40.5	29.034	39.8 39.5	S.	31	45.8	37.3	26	d	CSK	
2	39.2	40.3	29.249	39.2 38.7	S.W	58	42.9	31.5	26	f	CK	
3	43.7	42.1	29.100	43.7 43.2	S.S.W	164	47.5	37.4	96	v	C	
4	36.4	40	29.400	36.4 36.3	S.W	267	48.7	36.2	106	v	KS horizon	
5	36.2	38.8	29.384	36.1 36.1	S.W	134	40.9	30.9	0	g	K	
6	40.6	40.8	28.919	40.6 40.4	S.W	147	45.8	36.9	86	v	KS horizon	
7	46.4	46.4	28.639	46.4 45.9	S.W	172	46.8	35.1	0	g d	KS	
8	36.9	40.9	28.931	36.9 36.7	N.W	183	49.	36.5	106	v	Aurora N. dark cloud E	
9	31.7	39.3	29.440	31.7 31.5	S.W	102	44.9	31.7	106	v	D. N.E	
10	29.6	39.1	29.782	29.6 29.5	S.W	73	34.9	24.1	96	v	CS	
11	33.6	38	29.449	33.6 33.3	S.W	109	44.1	29.3	66	v	CS slight halo round moon	
12	34.6	37.1	29.509	34.6 34.2	W by S	185	37.8	30.7	0	f	SC	
13	43.2	40.1	29.060	43.2 42.9	S	229	45.1	29.2	26	d	HC	
14	40.8	40.5	29.032	40.8 40.1	W	241	45.9	36.9	66	v	CS	
15	42.9	41.9	29.640	42.9 43	S.S.W	79	47.2	39.1	0	d	K moon hazy	
16	47.7	40	30.039	47.7 47.4	S by S	126	52.4	42.1	0	m	K	
17	46.8	45.3	30.219	46.8 45.3	S	105	50.9	38.8	0	m	CS	
18	40.1	45.2	30.320	40.1 40.6	W by N	18	50	40.2	0	f d	K	
19	36.7	40.9	30.379	36.7 36.8	E	95	44.3	34.1	0	m	CS	
20	32.9	38.8	30.274	32.9 32.1	E N E	56	41.9	32.3	0	g	K	
21	32.2	35.8	30.215	32.2 31.4	NW	10	36.9	29.9	0	g	K	
22	35.5	37.2	30.284	35.5 34.8	W S W	30	42.9	31.8	0	f	K	
23	36.2	39.2	30.335	36.2 34.4	NW	42	44.4	34.9	0	g	K	
24	27.2	34	30.264	27.2 27.1	NW	16	44.	27.2	106	v	SC	
25	28.3	34.7	30.220	28.3 27.9	NW	16	35.9	24.0	76	v	SC	
26	30.9	34.9	29.995	30.9 30.6	S	169	39.2	28.0	106	v	SC	
27	36.6	37.3	29.822	36.6 35.5	S	189	43.1	28.7	36	v	HC Aurora white	
28	39.9	39.6	29.661	39.9 39.1	S S W	259	43.9	36.2	0	g	KS	
29	39.8	39.4	29.652	39.8 39.5	SSE	282	43.9	33.6	96	v	K	
30	42.9	41.8	29.091	42.9 41.6	S.E		47.8	39.1	0	g	K	
31	37.2	42.	29.390	37.2 36.2	S.W		48.7	37.2	10	v		
	37.12	39.36	29.635				43.92	33.36				
							44.5	33.7				

1870		10 AM			Hygro		Anemo		Ombro				1870
February	E	A	Bar	dry wet	Dir	Space	Sq	R					February
1	41.1	39.8	29.372	41.2 38.7	S.S.E	198	—	0.024	0	m. g. q	K	Snow drops	476
2	44.4	42.9	29.112	42.7 43.12	S	205	0.185	0.258	56	v	KC		301
3	38.8	40.2	29.371	39.1 38.9	SSW	38	—	0.007	0	f	K		175
4	45.8	43.7	29.105	40.4 44.9	SS.E	271	0.026	0.045	0	q	KS		444
5	38.1	40.2	29.414	38.6 37.6	SW by S	114	0.004	0.022	36	m	CS		280
6	46.9	41.1	29.120	47.3 46.5	SE by E	421	—	0.224	0	g q r	K		650
7	39.9	41.1	29.311	39.9 38.7	E	102	0.158	0.340	106		C		266
8	43.5	43.9	29.219	43.9 41.6	E	161	0.268	0.371	0	v	KCS	Snow at night	380
9	33.	37	29.679	33.3 30.8	N.E	222	0.023	0.160	0	g	KS		407
10	33.2	37	30.040	32.1 31.5	NE by E	130	—	—	86	v	CS		247
11	32.	34.7	30.250	32.1 32.7	NE by N	34	—	—	0	f	KCS		89
12	34.9	35.	30.439	35.2 34.8	N.E	100	—	—	0	v	CS		176
13	29.2	32.3	30.260	29.1 29.12	N.E	168	—	—	8	v q	KC	slight snow	453
14	32.7	33.2	30.161	32.8 32.6	NNE	340	—	—	0	v q	KS		642
15	35.3	40.1	30.228	35.5 35.2	N.E	201	—	—	7	v	CS		351
16	38.7	36.8	30.089	38.3 38.4	N.E	102	0.001	0.001	0	d	KS		221
17	35.9	36.9	30.054	36.5 34.6	N.E	136	—	—	16	v	KC		205
18	35.9	36.6	29.904	36.6 34.7	NE by N	10	—	—	0	f	K		44
19	37.1	36.7	29.903	37.1 35.7	N	9	—	—	0	m	KC		41
20	39.4	37.3	29.994	39.7 38.1	WSW	74	—	—	96	v	KCS	horizon	239
21	38.9	38.9	29.772	38.5 37.6	NW by W	87	0.015	0.020	0	d	KS		242
22	37.4	37.8	29.765	38.1 36.6	W	71	—	—	0	g	KS		221
23	41.9	40.2	29.232	42.6 41.1	S.W	149	0.009	0.047	0	r	KS		210
24	38.9	40.1	29.105	38.4 37.6	W	145	0.017	0.075	56	p	KCS		222
25	38.1	38.7	29.250	38.9 37.2	SW	121	—	—	0		KS	in afternoon	257
26	35.4	37.	29.185	35.5 32.7	S.W	170	—	—	106	Song ground	K horizon		295
27	36.5	38.2	29.177	36.5 36.1	E	37	0.079	0.102	0	r	K	heavy rain	279
28	44.5	43.1	28.902	44.9 41	S	306	—	0.387	106	q			605
37.65		38.21	29.621				0.785	2.083					

1870	10 P.M.			Hyg	Anemo		Thermo				
February	E.	A.	Bar	Wet	Dir	Space	Max	Min			
1	43.1	42.9	29.165	43.2 42.7	S	278	47.2	37.4	86	v	CS Fine Aurora N
2	37.5	42.4	29.271	37.8 37.5	SS E	96	48.3	39.3	46		KS
3	43.6	42.6	29.361	43.7 42.5	S.E	137	46.2	32.7	86	v	K Noctua
4	39.9	42.5	29.279	39.9 38.3	SS E	173	50.	38.8	16		KS
5	40.1	40.9	29.450	40.2 37.1	S.E	166	44.8	32.3	0	g	K
6	44.4	44.3	29.100	44.7 44.1	S	229	51.9	39.2	0	g r	K
7	41.9	42.7	29.134	41.8 41.2	E	164	44.5	34.8	0	g r	K
8	33.5	40.2	29.333	33.5 33.3	N.E	219	45.	32.4	0	g s	KS
9	30.2	36.4	29.764	29.7 28.5	N.E	185	37.9	29.8	86	v	CS
10	26.9	34.5	30.139	26.2 26.1	N.E	117	36.1	26.4	106		
11	33.8	36.4	30.300	33.3 31.6	N.E	55	41.	26.1	76		KS
12	32.6	35.4	30.314	32.5 32.2	N	76	37.8	29.3	16		CS
13	28.9	32.2	30.157	28.9 28.7	N.E	285	36.9	25.1	0	g	K
14	33.3	33.9	30.139	33.4 33.1	N.E	302	36.2	28.6	0	v g	KS
15	35.8	37.2	30.175	35.6 35.3	N.E	151	41.1	31.2	4	v	C
16	37.5	37.9	30.013	37.6 35	N.N.E	119	43.2	34.8	0	v	KS
17	34.5	37.1	30.002	34.5 32.6	NN.E	69	41	34.2	0	g	K
18	34.6	37.1	29.889	34.8 32.8	NN.E by N	34	39.9	32.2	0	g	K
19	35.3	36.9	29.990	35 32.1	NN.W	32	42.8	31.9	86	v	C
20	41.5	39.9	29.819	41.7 39.6	N.W	165	46.3	31.5	0	g	K
21	36.6	40.	29.650	36.7 36.2	NN.W	145	46.1	32.9	66		KS
22	39.3	40.	29.433	39.5 39.1	S.W	150	45.	32.2	0	g	K slight rain in night
23	37.7	40.6	29.233	37.9 37.3	S.W	61	47.8	31.1	0	g	KS
24	31.7	36.3	29.332	32.3 31.4	WN.W	77	44.8	29.5	3		C
25	37.8	39.3	29.033	37.9 36.9	SW	136	45.	32.0	0		KS snow in night
26	33.3	37.	29.250	33.6 31.6	SW	125	47.2	29.9	0	v	KS snow gone
27	45.9	40.2	28.804	45.9 44.4	S.E	242	47.9	31.5	2	g	KS
28	47.2	45.2	28.882	47.5 46.2	S.E	299	51.	40.9	0	g r	K
	36.59	38.61	29.657				43.67	22.01			
							44.0	32.4			

1870	10 AM			Hygro	Anemo	Ombro						
March	E	A	Bar	dry wet	Dir	Sp	S	R				
1	46.	44.8	29.159	46.9 44.2	S	30.5	0.025	0.643	46	g	KC	528
2	37.8	41.2	29.439	38.5 37.9	N.E	15	—	—	0	gm.	KS	133
3	39.5	41.6	29.516	40.1 37.1	N.E	210	—	—	0	g v	KS p	467
4	37.9	39.	29.900	35.5 38.2	N.E by E	216	0.019	0.046	86	v	CS	406
5	38.9	38.	30.004	36.1 38.3	N.E by E	156	—	—	26	v	KCS	320
6	37.9	38.	30.329	36.1 36.9	N.E	58	—	—	86		C	128
7	36.5	37.9	30.232	41.3 40.3	NN.E	28	—	—	106	m	KS horizon. fog early	80
8	41.3	40	30.251	44.7 41.2	NNW	29	—	—	106	gm	Crocus in blow. Seagulls seen.	108
9	44.5	43.3	30.138	45.7 43.7	NN.E	44	—	0.018	106	v	C	122
10	45.7	42.2	30.030	40.8 37.1	N.W by W	45	—	—	0		KS. Bees & wasps seen	178
11	40.6	43.	29.781	35.9 37.2	NW	162	0.010	0.009	46		KS	264
12	35.3	39.8	29.653	33.2 30.9	N.W by W	65	—	—	0	v	KS 5:30 p.m.	154
13	32.9	38.8	29.653	36.7 34.7	NNW	30	—	—	96	v	CS 5.00 ground	97
14	37.4	37.7	29.750	47.2 46.6	S	86	—	—	0	m	K.	275
15	46.4	42.8	29.350	52.2 51.4	S	264	0.285	0.403	0	r	KS	473
16	51.3	45.9	29.204	53.7 48.7	S.W	186	0.089	0.237	0	r	K	323
17	52.6	46.9	29.579	44.7 44.9	S.W by W	130	0.112	0.200	0	m	KS	269
18	47.8	46.1	30.000	51.5 49.6	W	25	—	—	56	m	CS	72
19	53.8	47.6	30.200	50.5 49.3	S.W	43	—	—	46	v	KC Tart Honey suck in leaf	102
20	51.9	51.2	30.214	46.9 35.9	W	74	—	—	26	v	KCS	168
21	49.7	49.7	30.065	38.3 38.1	S.W	92	0.003	0.014	0	d	K	245
22	36.9	45.8	29.794	38.2 37.1	N	175	—	0.316	86	v g	CS	327
23	37.7	42	30.019	40.2 37.1	NNW	72	—	—	0	v g	K	166
24	39.8	40.8	29.828	39.6 35.1	NNW	25	—	—	0	v g	K	118
25	39	40.2	29.690	38.7 34.3	N.E by E	77	—	—	56	v g	K	184
26	38	39.3	29.826	43.1 42.9	NN.E	35	—	—	76	v	CK	87
27	42.9	39.9	30.090	49.8 38.2	SS.E	34	—	—	106	v	Slight Horizon	145
28	48.9	43.2	30.234	49.1 49.1	SSW	91	0.020	0.087	0	m	K.	175
29	49.6	44.9	30.238	53.7 50.8	S.W	23	0.010	0.010	0	f	K 1st Daisy	84
30	52.5	45.1	30.049	51.6 51.6	S.W	99	0.031	0.045	0	fd	KS 1st Daffodil	157
31	54.5	47.2	30.062		S.W	47	0.017	0.039	36		CS 1st Hawthorn leaf	129
	42.86	42.30	29.882				0.621	2.067				

1870	10 P.M.			Hygro	Anemo		Therm				
March	E	A	Bar	dry wet	Dir	Sp	Max	Min			
1	38.9	44.4	29.387	38.9 38.9	SSW	223	53	38.3	96	S white aurora NW horizon	
2	38.1	41.7	29.472	38.2 36.6	NNW	118	44.1	31.8	0	g	H
3	35.	39.9	29.783	35. 32.8	NW	257	43	32.7	0	g	H
4	34.1	38.2	29.960	34.3 31.4	NW	190	42	33.0	0	g	H
5	36.2	40	30.249	35.3 31.2	NW by E	164	45.3	31.9	106	v	
6	34.8	40.1	30.300	34.2 32.1	NNW	70	46.8	29.9	106	v	White aurora NNW
7	35.6	42.2	30.275	35.5 33.5	N	52	47.2	28.1	106	v	H Whorizon misty moon
8	39.2	43	30.188	39.5 38.5	N	79	51.1	31.7	0	g	HC
9	39.5	43.8	30.129	39.7 37.1	NNW	78	51.8	38.4	66		CS Halo round moon
10	44.1	44.4	29.860	41.4 41.3	SW	133	51.3	32.0	0	v	HS Rain in night
11	35.5	42.2	29.704	35.4 33.7	NW	102	47.8	35.2	0	drift	HS Misty moon
12	30.3	39.1	29.499	30.3 29.5	NNW	89	46.9	29.2	0	Snow on ground	HC S
13	28.9	39.3	29.750	28.9 27.9	SW	67	43.9	25.47	106	sgone	Slight aurora N
14	40.4	40.4	29.529	40.5 38.0	SE	189	44.9	27.9	0	v	H
15	46.5	45.3	29.740	46.7 45.9	SE	209	53.8	40.0	0	d	H faint misty moon
16	49.7	48.7	29.383	49.5 47.1	SW	137	54.2	45.8	0		C
17	46.4	47.2	29.739	46.4 44.9	W	139	55.5	46.0	0	v	SK
18	42.5	47.2	30.748	42.6 41.6	SW	47	56.8	47.3	10	v	CS: N horizon
19	50.	51.9	30.324	50.3 48.4	SW	59	60.9	41.0	0	m	H
20	49.1	52	30.169	49.5 48.4	W	94	58.	45.1	0	g	H
21	47.7	50.6	29.899	47.9 47.3	WSW	153	58.	46.1	0	g. t	H
22	34	42.6	30.022	34 32.4	N	152	50.3	33.8	0	g	H
23	35.8	42	30.000	35.6 35.3	NNW	94	49.2	33.2	6	v	H
24	36	41.1	29.651	36.3 35.3	NW	83	46.1	32.0	0	d	H
25	32.9	40.	29.804	32.9 32.5	NW	87	46.2	31.7	106	v	Slight aurora N horizon
26	33.7	39.9	29.990	33.5 31.9	SE	52	44.9	29.0	106	v	
27	42	42.9	30.146	42.1 42.	SE	111	44.4	27.6	0	r	H
28	46.9	45.3	30.278	47.1 46.7	SSW	84	53	41.3	0	r	H
29	43.5	43.	30.180	43.9 42.6	SSW	61	55.2	43.8	0	g.	H
30	46.9	49.4	30.060	47.2 46.9	SW	58	57.2	46.4	0	g.	H
31	47.6	49.2	30.032	48.6 46.6	SW	82	61.3	47.5	106	v	White Aurora NW horizon
	39.65	43.13	29.904				50.10	35.88			
							50.5	36.3			

1870	10 A.M.			Hygro	Anemo		Ombro				
April	E	A	Bar	Wet	Dir	Sp:	Sq:	R			
1	52.1	48	29.949	53.4	S.S.W	100	—	—	0	f	K. 215
2	47.3	47	30.138	50.5	W by NW	36	0.011	0.020	86	v	HC 56
3	47.6	42.4	30.252	42.9	S.W	9	—	—	66	v	CS Wind from 12 p.m. 48
4	50	48.9	30.259	43.5	S.W	35	—	—	106	v	K N E horizon 141
5	50.8	47.9	30.076	45.7	S.S.W	108	—	—	106	v	217
6	51.9	49	29.884	45.3	Sl by S	104	—	—	86	m	C 1 st Henchamut leaf 260
7	49.7	48.9	29.736	48.7	S	34	0.012	0.020	0	v	AS 178
8	49.2	47	29.302	46.4	S	189	0.108	0.051	0	v	K. 315
9	44.8	44.9	29.100	45.1	N.E	46	—	0.219	0	v	K.C.S. 146
10	45.7	45.1	29.684	42.9	N.W	154	—	0.040	26	v	HC.S 320
11	52.2	47	29.839	41.2	S.W	125	—	—	16	v	HC 1 st Sycamore leaf 292
12	50.2	48.9	29.710	53.4	S	222	0.030	0.042	0	r	K. 404
13	54.4	49.3	29.920	47.3	S.W	74	0.008	0.065	0	m	HC. 167
14	51.5	49.1	30.134	50.9	W N W	94	—	—	0	m	K. 234
15	52.1	50	30.229	47.8	W	79	—	—	86	v	CS 1 st Willow green heard 164
16	49.5	50	30.300	48.9	S.W by W	57	—	—	0	f	K. 105
17	57.4	49	30.136	50.5	S.S.W	22	—	—	106	m	CS slight. 144
18	58.7	53.2	29.936	50.2	S.E	60	—	—	86	m	CS 281
19	56.7	52.6	29.850	57.5	S.E	189	—	—	106	m	S.C. Swallow seen 390
20	53.3	54.2	29.611	50.8	S.E	177	—	—	0	g	K. 381
21	51.6	50.1	29.816	54.1	S.S.E	110	0.090	0.128	76	g	CS 375
22	55.4	53.8	29.601	46.3	S.S.W	209	0.054	0.185	0	g	K. 560
23	48.1	49	30.061	56.4	SW	102	0.007	0.013	0	t	K. p.e. 305
24	52.4	50.3	30.068	48.0	SW	210	0.129	0.237	0	d	K. p. Bechabird in flower
25	56.1	51.9	30.101	51.9	S.W	478	0.039	0.042	0	m	KS Pears & Cherries in blow 402
26	47.9	51.8	29.911	54.3	Sl by W	180	—	0.037	16	p	HC.S p.h.g. 343
27	44.	47.8	30.106	48.9	N.W	115	0.037	0.074	36	p	HC Apple in flower 231
28	42.5	47	30.071	45.5	N.N.W	79	—	0.041	0	p	KS Cuckoo heard 182
29	51.7	47.8	29.814	53.6	N.W by W	75	—	—	0		KS 224
30	50.9	50.1	29.519	51.7	SW	140	—	—	0	g	KS 317
	50.44	48.73	29.905				0.525	1.214			

1870	10 P.M.			Hugs	Anemo-		Thermo					
April	E	A	Bar	Wind	Dir.	Sp.	Max.	Min.				
1	43.8	49.7	30.006	43.7	NW	135	59.2	43.8	0	g	K	
2	40.6	49.1	30.200	44.5	WNW	20	55.8	35.3	0	g	K	
3	44.9	49	30.259	42.7	SW	34	53.2	41.2	0	g	K	
4	48.5	50.4	30.160	41.1	SSW	106	60.8	38.9	2		C	
5	43.1	49	29.932	40.7	SW	112	58	38.3	106	v		
6	45.3	51.2	29.840	40.2	SW	156	60.8	41.9	36	v	CS	
7	45	49	29.440	43.9	SSW	144	56.7	40.8	56	v	KCS phth in day 5.30 p.m.	
8	38.3	44.9	29.199	42.3	S.E.	126	53.1	38.2	mb	v	CS P	
9	39.2	44.4	29.326	38.4	N.E.	100	54.1	36.0	76	v	C p	
10	42	47.3	29.800	37.4	S.W.	166	54.1	37.7	56	v	CS	
11	48	49.1	29.781	40.9	SSW	167	57.7	40.8	0	m	K misty moon.	
12	48.9	51	29.829	45.4	SW by W	182	54.4	45.6	0	m	K r all day till 5 p.m.	
13	45.2	49.2	29.994	48.6	NW by W	93	61.7	43.1	96	m	S N horizon	
14	48	51.8	30.209	45.2	W	140	58.6	42.2	0		KC halfclouded moon.	
15	44.6	52.1	30.262	48.1	WNW	85	62	43.0	106	v	C slight	
16	47.4	51.1	30.234	44.6	SW	54	61.3	41.2	106	v	C	
17	44.2	50.7	30.040	47.1	SSW	124	64	35.5	106	v		
18	50.1	54	29.846	43.9	SW	221	60.2	36.3	96	v	K horizon	
19	51.4	56.6	29.663	41.7	NW by E	201	64.8	46.7	106	v		
20	45.9	54.1	29.669	50.1	SW	204	62	45.4	56	v	fine red Aurora KS well from 4 p.m.	
21	44.6	51.4	29.848	46.1	S	265	58.9	40.8	106	v	slight white Aurora N	
22	44.1	49.9	29.900	42.3	SW	291	59	43.6	106	v		
23	46.3	51.7	30.064	43.9	SW	170	57	37.9	0	v	K	
24	51	51.9	30.140	44.9	SW	180	58.3	45.2	0	v	K	
25	49.3	52.6	29.988	40.6	SW	224	63.2	48.9	0	g	K	
26	40.2	46.4	30.000	49.8	NW by W	155	55.2	40.0	106	v		
27	41.2	48.5	30.129	47.7	NW	116	52.2	38.1	76	v	K in NW auroral light	
28	41.8	48.1	30.001	39.2	NW	103	52	34.2	26	v	KS D? D. dusk cloud	
29	49	53	29.750	41.9	WNW	149	55.4	43.0	0	g	K	
30	43.1	48.0	29.922	42.9	WSW	177	57	42.8	86	v	dark K horizon	
	44.86	49.77	29.894				57.79	40.77				
							58.1	40.9				

1870

10 AM

Hygro

Anemo

Ombro

May

E

A

Bar

dry
wet

Dir

Sp:

Sq

R

1

48.4

48.2

29.448

48.3
44.8

NW

152

—

0.103

0

r q

K White Lilac in blow

320

2

43.9

45.9

29.841

39.2

NW

86

—

0.015

0

g

KS Corn crane heard

191

3

46.6

47.1

29.920

47.7
41.5

NW

84

—

0.009

0

g

KS Fast. Honey suckle in blow

190

4

46.7

48.

30.072

42.9
52.2

NNW

50

—

—

0

g

KS Purple Lilac D°

139

5

50.4

48.7

30.139

46.1
35.6

NNW

58

—

—

0

g

KSS

135

6

54.3

50.1

30.200

49
52.3

NNW

49

—

—

16

v

KS Oak in leaf

66

7

50.6

49.8

30.160

46.9
50.9

NNW

25

—

—

0

v

K

82

8

50.4

50.8

30.100

47.4
47.2

NE by E

24

—

—

0

m

KCS

175

9

55.7

51.4

29.946

56.8
50.7

S

69

—

—

0

v

KCS

161

10

55.5

51.8

29.712

47.19
49.5

S. E

40

—

—

0

fn

K

366

11

47.2

50.8

29.060

46.7
58.9

NE by E

146

0.074

0.098

0

r q

K

572

12

48.4

50.3

28.679

52.3
56.3

SSW

234

0.148

0.313

0

r q

K

429

13

57.7

51.8

29.560

56.9
59.9

S. W

219

—

0.422

16

v

K

423

14

55.4

51.6

29.318

60.1
58

S. S. W

178

0.074

0.133

46

v

K

309

15

56.8

52

29.573

58.5
59.2

S. W

101

—

—

36

v

K Hawthorn in blow

439

16

56.6

52.8

29.622

61.6
58.12

S. W

202

0.013

0.029

0

v

K Ash leaf out

361

17

59.9

55.8

29.841

54.5
62.6

S. S. W

197

—

0.028

0

r

K

327

18

56.9

55.1

29.771

62.8
61.6

S. W

141

0.048

0.075

46

p v

K

190

19

60.8

56.8

29.692

60.9
58.3

S. W

27

—

0.195

0

r

K

208

20

53.9

56

29.923

53.2
53.6

NW

121

—

—

0

v

K

180

21

52.7

53.9

30.050

60.2
55.6

S. W

68

—

—

0

g f

K

250

22

59

55.9

30.073

58.3
50.5

S. W by E

144

—

0.003

46

v

K

100

23

57.3

53.7

30.300

61.6
57.5

NNW

42

—

—

106

v

K

57

24

60.5

54.9

30.220

66.1
57.8

N. N. W

17

—

—

106

hare

K

—

25

65.

56.1

30.055

62.5
63.6

N. E

Anemometer

—

—

106

m.

K

—

26

59.5

59.4

29.911

64.7
57.14

S

taken down

—

—

0

m

K

—

27

62.1

59.8

29.773

53
50.9

S. S. W

—

—

0.002

0

r early

K

—

28

55.9

58.5

29.431

—

S. S. E

—

—

0.268

0

r q

1870	10 PM			Hygro	Anemo		Thermo				
May	E	A	Bar	dry wet	Dir	Sp:	Max	Min			
1	39.9	46.4	29.719	39.8 38.9	NNW	168	53	39.5	96	v	K
2	40.9	46.9	29.992	40.9 38.3	WNW	105	50	36.8	0	v	KS slight aurora N
3	44.1	49.3	30.023	44.1 40.2	NNW	96	55.9	39.2	0	g	K Do
4	44.9	48.9	30.150	44.9 40.9	NNW	57	55	39.9	0	g	K
5	46.1	50	30.224	46.1 44.9	NNW	81	56	43.6	2		KS
6	47.7	52.2	30.199	47.7 45.9	NNW	86	59.9	44.1	0	g	K
7	47.3	52.3	30.124	47.3 43.2	NE	41	57.1	46.0	0	g	K
8	44.7	52.1	30.068	44.7 42.7	SW by W	58	58.2	44.9	106	v	
9	48.7	52.1	29.876	48.7 47.4	S.E	106	57.5	41.4	0	v	K
10	47.3	53	29.554	47.3 45.9	S.E	121	61.8	46.2	0	v	CS
11	48.9	51.8	28.791	48.9 46.9	SSE	220	53.2	43.9	5	v	KS
12	45.3	49.1	28.860	45.3 43.9	SSW	338	57.	45.1	0	dq	KS
13	49.1	50.9	29.010	49.1 48.9	SW	158	61.4	44.8	0	r	KS
14	46.2	51.1	29.322	46.2 46.8	S.W	204	62.1	44.7	106		CS
15	46.9	53.3	29.541	46.9 47.7	S.W	131	63	45.0	86	v	KS
16	47.3	53.6	29.695	47.3 48.7	S.W	109	62.3	42.4	0	v	KS
17	53.2	55.4	29.720	53.2 52.8	SSW	251	63	46.9	0	v	KS
18	53.5	55.8	29.863	53.5 52.2	S.W	159	66.2	46.3	0	v	K
19	55.4	56.7	29.816	55.4 54.7	S.W	282	61.8	51.0	0	v g	K
20	52.4	57	29.850	52.4 53.7	W	186	66.1	52.9	0	d	K
21	54.8	59.6	29.842	54.8 55.7	S.W	163	63.3	51.8	36	g v	KS
22	45.7	54.9	30.000	45.7 46.3	SW	87	58.2	45.9	0	v	KS
23	55.2	56	30.062	55.2 54.2	S.W	112	61.8	45.9	0	v	KS Aurora W behind clouds
24	46.1	52.1	30.242	46.1 45.9	NW	106	64	47.1	46	m	None over sky
25	50.7	56.2	30.323	50.7 50.8	NNE	58	66.	43.2	106	v	
26	53.4	57.6	30.329	53.4 53.7	S.W	40	70	43.9	106	v	
27	56.9	61	29.922	56.9 57.2	W	-	71.4	46.2	0	m	KS
28	53.8	59.2	29.839	53.8 57.1	S.W	-	65.2	53.7	26	v	KS Aurora NE. midnight
29	56.9	61.9	29.693	56.9 57.5	S	-	66.2	43.0	0	g	KS
30	51.3	59.1	29.244	51.3 51.1	S	-	63	50.9	0	r g	K
31	50.2	54.7	29.500	50.2 46.5	S	-	57.8	49.2	0		K
	48.72	53.52	29.793				60.64	44.89			
							60.9	45.3			

1870	10 AM			Hygro	Anemo		Ombro				
June	E	A	Baro	dry wet	Dir	Sp.	Sq	R			
1	55.4	54.7	29.572	56.8 51.8	NE	Anemometer	—	—	36		KS
2	59.	56.2	29.811	60.4 61.	NW	altering	—	—	0	f	K
3	62.7	58.8	29.861	64.5 58.1	E	—	—	—	56		KC
4	63.9	59.	30.194	66.1 65.9	S.W	—	—	0.057	0		K
5	66.2	59.3	30.375	67.5 65.1	E	—	—	—	106		KC
6	68.8	61.3	30.432	70.3 62.2	S	—	—	—	106	v	
7	68.9	62.6	30.400	65.4 61.3	NNE	—	—	—	106	m	
8	64.9	63.8	30.139	67.2 60.3	NW	—	—	—	16		KCS
9	58.	61.1	29.782	59.3 51.	N.W by W	—	—	—	26		KS
10	57.2	59.9	29.539	58.9 51.9	W	—	—	—	16		KCS
11	65.	57.7	29.511	56.5 53.1	S.W by W	—	—	0.045	0	r	K
12	55.8	56.	29.784	56.1 55.1	S.W	—	0.364	0.434	0	r	K
13	63.9	59.9	29.870	65.9 63.9	S.S.W	—	0.013	0.014	36	v	KCS
14	62.1	60.2	29.851	63.6 58.6	S.S.W	—	—	—	0	g	KCS
15	62.2	59.2	29.902	63.8 57.1	S.S.W	—	—	0.053	0		KC
16	59.1	59.7	29.783	59.9 58.1	S.S.W	—	—	0.035	0	r	K
17	58.1	58.8	29.771	59.4 52.5	N.W by W	—	—	—	36	v	HC
18	62	60.7	29.762	63.6 57.	S.W	—	0.038	0.044	26	v	KC
19	61.9	60.7	29.883	63.2 59.6	S.S.W	—	0.021	0.029	0	g	KCS
20	63.9	61	30.041	65.7 57.6	S.W	—	—	0.028	56	v	KC
21	70	64.4	30.124	72.2 66.2	S.W	71	—	—	0	g	KS
22	61.6	64	30.163	62.9 53.	S.W by W	133	—	—	46	v	KC
23	52.8	59.1	30.151	54.9 50.4	N.W by W	75	—	—	0	r	KS
24	57.9	60	29.862	59.3 53.7	NW	114	—	0.143	36	v	KCS
25	58.1	58	30.000	60.7 54.7	N.W by W	97	0.003	0.003	16	v	KC
26	57.4	59.1	29.741	58.5 55.2	W	109	—	0.002	0	d	K
27	52.5	59	29.878	58.7 52.7	N.W	99	—	0.008	36		K
28	55.6	58	30.014	57.2 52.2	N.W	67	—	—	0		KS
29	59.6	58.7	30.026	61.3 55.4	N.W by N	84	—	—	0		K
30	56.7	58	29.964	58.8 53.6	WNW	74	—	—	16		KS
	60.21	59.63	29.940				0.439	0.935			

1870

10 BSE

Hygro

Anemo

Thermo

June

E

A

Baro

dry
wet

Dir

Sp:

Max

Min

1	51.9	57.9	29.739	51.9 52.3	W	Anemom	66.1	46.2	106	v	11 to 1.4 M. Aurora. N 2 gentle.
2	58.1	59	29.835	58.2	W	altering	68.2	49.3	0	d	K
3	56.6	59.7	29.965	55.1	S.W	—	64.	45.0	0	g	HC
4	57.7	60.9	30.300	57.9	S	—	74.8	54.4	106	v	
5	59.1	64.2	30.432	58.6	S.S.E	—	76	50.0	106	m	
6	59.9	64	30.424	60.2	NE	—	77	52.3	106	v	
7	58.1	64.3	30.333	58.1	NE	—	74	54.1	106	v	
8	54.4	64	29.943	54.8 57.3	NW	—	71.8	50.0	16	v	KS
9	49.7	61	29.672	49.3 46.6	N	—	63.7	48.4	46	v	KS
10	53.5	60.6	29.536	52.9 49.8	S.W	—	63.2	49.1	0	v	KS
11	50.9	58.8	29.900	51.1 47.1	W	—	61.1	45.8	0	r	K
12	57.5	59.4	29.867	57.8 56.9	S.S.W	—	64.4	44.6	0	d	KS
13	57.5	61	29.865	56.9 53.1	S.S.W	—	69.	46.3	0	d	KS
14	52.5	59.2	29.913	51	S.S.W	—	69.2	53.9	106	v	
15	57.2	61.1	29.822	57.9 56.3	S.S.E	—	66.9	50.7	0	v	KS
16	55.9	60.9	29.786	52.7 56.4	NW	—	64.6	53.0	0	v	KS
17	56.6	61.3	29.715	52.6 51.6	S	—	69.2	49.9	0	g	KS
18	57.1	62.2	29.942	54.3 58.1	W	—	70.	53.7	0		KS
19	57.2	62	29.893	55.6 64.1	S.W	—	68	54.2	0	g	KS
20	63.2	64.2	30.142	62.1 59.2	S.S.W	135	74.2	54.1	0	d	KS
21	58.5	63.3	30.100	58.1 49.3	S.S.W	110	79.2	59.2	86	v	KS
22	49.8	62.7	30.215	46.6 53.1	NW	85	69.2	50.8	106	v	0.30 Pink auroral light
23	52.7	60.1	30.032	50.4 51	S.S.W	93	63.2	46.0	0	g	KS
24	51.1	60	29.963	47.8 45	N.W	137	63	51.2	46	v	KS
25	54.7	60.1	29.991	53.1 53.4	W by SW	97	63	40.3	0	g	KS
26	53.1	60	29.823	52.7 53.7	W by NW	163	63.1	33.2	0	g	KS
27	52.7	59.7	29.982	50.0 54.0	NW	99	63.3	53.8	0	g	KS.
28	53.5	59.7	30.044	51.2 52.8	NW by W	80	62.6	51.7	0	g	KS.
29	52.3	60	30.014	48.7 50.3	NW by N	108	67.2	52.7	0		KS.
30	49.8	58.8	29.946	48.3	NW by W	108	62.0	50.0	16	g	KS.

54.64 60.70 29.971

67.49 50.13

67.7

50.7

1870	10 AM			Hygro	Anemond		Ombro			
July	E	A	Bar	dry } wet }	Dir.	Sp.	Sz	R		
1	55.8	58	29.946	57.3						
2	55.3	58	29.900	51.6	NW	114	-	-	16	KS.
3	57.8	57.7	29.737	53.1	NW	74	-	-	0	KS.
4	61.8	59.8	29.540	57.7	W.S.WE	43	-	-	0	KS
5	62.0	60	29.618	55.2	Wly S.	148	Cock part dead - open	0.333	0	K.B.S.
6	59.8	58.5	29.736	64.0 60.5	SW	204	-	-	0	K.B.S.
7	65.7	58.6	29.899	56.7	SW & W	132	0.079	0.099	0	KS
8	64.8	61.5	29.772	61.2	SW	83	-	-	56	K.
9	64.2	62.0	29.719	54	SW	138	0.436	0.422	0	KS.
10	65.2	63.5	29.686	67.3	E & N	42	0.027	0.024	0	KS.
11	60.7	62	29.616	60.2	SW & W	70	0.052	0.056	0	KS
12	60.8	60.6	29.614	62.8	W	50	0.005	0.001	0	KS
13	61.2	62.0	29.656	62.3	NW & N	36	-	-	36	K.B.
14	64.8	62	29.776	58.7	WNW	50	0.152	0.145	0	C.
15	59.4	61.6	29.662	67	SW & S	111	0.004	0.005	0	KS.
16	59.0	60.8	29.652	60.8	S	188	0.011	0.012	0	KS
17	59.4	60.3	29.852	57.9	N SW	84	0.311	0.301	0	6
18	66.4	62.0	29.834	58.0	SW	78	0.060	0.061	0	KS
19	62.6	63.0	30.046	68.4	SW & W	89	0.010	0.011	0	KS.
20	65.2	62.0	30.052	64.0	WNW	88	0.004	0.004	0	KS.
21	65.7	65.0	29.974	59.3	SW	48	-	-	62	KS & Cui horizon
22	73.0	64.8	30.040	66.7	W & N	155	0.112	0.145	62	KS
23	74.2	65.5	29.888	67.4	SSW	50	-	-	0	KS
24	74.3	66.5	29.845	75.3	S & E	47	-	0.003	610	very slight K
25	72	67	29.778	75.5	ESE	60	-	0.001	610	
26	62.8	64.8	30.020	67.3	E & N	53	-	-	0	KS.
27	63	61.6	30.072	64.9	NW	64	-	0.004	46	KS
28	66.3	63	30.140	64.2	NNE	40	-	0.005	46	C
29	64.8	64.2	30.108	55.6	NE	36	-	-	610	
30	62	62.6	29.946	54.7	N & E	31	-	-	610.	
31	64.6	64.3	29.791	63.8	NE	59	-	-	62	KS.
				57.0	NE	78	-	-	0	mg K
	63.30	61.74	29.837	62.4			1.265	1.632		
							1.333			
							1.398			

1870	10 P.M.			Hygro	Anemo		Thermo				
July	E	A	Bar	Wet	Dir	Sp. in	Max	Min			
1	51.7	59	29.960	52.2	WNW	109	63.7	50.0	0	5	KS. Buntus in abundance
2	53.3	58.8	29.844	53.8	NW by N	75	61.5	51.2	0		KS
3	57.6	59	29.524	57.8	SW by S	94	63.0	52.0	0		KS.
4	55.8	61.3	29.602	56.6	SW	134	71.2	56.6	0		KS.
5	51.8	60.0	29.638	52.4	SW	167	67.5	53.5	39		KS in S horizon
6	52.7	60.3	29.866	50.8	WSW	112	67.2	49.7	106	✓	
7	54.2	60.8	29.764	51.2	S by W	110	70.3	48.5	0	9	KS.
8	61.4	62.8	29.784	59.8	ESE	59	72	59.4	0		KS
9	60.4	63.8	29.686	59.3	NE	42	74.4	57.5	0		K.S.
10	58.2	63.8	29.685	61.3	SW	83	70.7	59.5	0		KS.
11	52	62.3	29.654	60.7	WNW	56	69	55.5	0		KS
12	58	63	29.600	54.4	S by W	44	70.3	49.5	0		C. eclipse of moon invisible from clouds
13	57.6	62.8	29.796	51.4	SW by W	99	68	57.6	0		KS.
14	61.2	63.8	29.740	58.2	S by W	139	71.5	56.5	0		C.
15	56.3	61.7	29.634	57.5	SSW	116	64.2	57.0	38	✓	On N.E. horizon
16	54.7	61.8	29.824	62.0	W by N	95	69.0	52.7	KS & 63		KS & K. General streamers.
17	60.3	61.8	29.804	57.8	S by W	94	64.3	54.5	0		KS
18	63.2	63.5	29.912	56.2	SW by W	105	73.5	58.5	0		KS.
19	52.6	59.2	30.136	61.7	W	63	69.5	56.0	62		KS & C. At 10 ¹⁵ sky was bio.
20	61.8	64.2	29.932	53.5	SW by W	192	75.4	54.0	0	9	C & KS.
21	60.5	64.3	30.064	62.7	W by N	80	72.3	60.7	0	9	KS
22	60.5	64.5	29.948	60.7	SSW	90	78	59.0	106	✓	
23	62.9	68.5	29.872	61.2	NE by E	117	81	58.0	106	✓	
24	64.4	69.2	29.802	60.8	E by N	79	80.2	58.5	76		KS.
25	56.3	67.7	29.932	62.8	NW	73	77	58.8	96		General streamers
26	51.8	63.3	30.086	56.5	N	95	70.3	53.5	710		
27	54.0	61	30.112	54.0	N by E	96	71.6	47.7	39	ma	KS in NE.
28	58.0	64.8	30.148	52.8	NE	61	73.5	52.0	38		with round horizon
29	56.6	65.8	30.040	57.3	N by E	81	73.7	53.0	39		KS in N horizon
30	66	61.1	29.894	56.5	NE by E	85	70.8	50.2	0	mg	K
31	62.1	66.9	29.795	51.3	NNE	69	72.8	58.9	26	f	K
	57.55	62.49	29.888				70.61	54.53			
							70.9	54.9			

1870

10 Aull

Hygro

Anemo

Ombro

August

E

A

Bar

dry
wils

Dir

Sp

Sq

R

1	67.4	65.1	29.790	68.1	NE	43	—	—	26	f	K
2	66.4	65.1	29.800	68.9	NE	32	—	—	0	f	K
3	68.6	65	29.700	68.1	SW	25	—	—	0	f	K
4	66.2	65.8	29.500	67.5	ESE	57	0.255	0.255	0	g	
5	67.3	65.0	29.461	68.8	SE	89	—	—	65		K
6	66.7	63.2	29.666	68.0	SEES	93	0.395	0.364	66		K
7	62.3	64.0	29.566	69.5	E	44	0.014	0.025	0	g	KS
8	67.7	64.7	29.840	69.3	E	61	—	0.004	61	g	K
9	70	64.5	30.028	69.0	E	36	—	—	310		
10	67	63.0	30.050	72.2	NW	21	—	—	310		
11	70.8	66.3	30.104	72.3	NW	27	—	—	310	haze.	
12	67.0	66.0	30.164	68.2	NNE	43	—	—	310		
13	67.3	65.6	30.192	67.7	N	37	—	—	310	a few cumuli	
14	62.5	65.0	30.204	65.7	E	48	—	0.006	69		KS
15	61.5	63.0	30.098	63.3	NE	91	—	—	16		K
16	64.2	62.0	30.046	65.0	NE	32	—	—	105		
17	63.7	63.0	29.996	64.7	N	39	—	0.003	105		
18	63.8	63.5	29.882	65.8	NW	31	—	0.001	0		KS
19	58.5	61.0	29.914	60.0	N	62	—	—	55		K.
20	59.3	59.4	30.004	60.3	NNE	42	—	—	55		E+KS
21	59.2	57.3	30.086	60.7	NW	46	—	—	25		K+KS
22	53.0	57.5	29.722	54.3	SW	64	—	0.100	0	g	
23	61.6	60.0	29.752	55.7	NW	56	0.126	0.211	0		KS. ^{spigot of} lock of O gauge a little loose.
24	63.2	59.5	29.766	64.4	W	89	0.019	0.022	66		KS.
25	61.0	58.0	29.888	62.4	WN	87	0.010	0.007	64		CS
26	58.9	58.5	29.864	60.0	NW	clock stopped	0.074	0.125	65		K
27	54.6	57.5	29.728	55.3	S	50	0.067	0.045	0	g	CS.
28	55.7	58.0	29.460	53.7	N	105	0.631	0.709	0	2 blue spots.	CS+K. ^{spigot of O gauge} cock not tight so I greased it
29	58.6	56.3	29.817	52.8	N	48	0.013	0.005	67		K.
30	57.8	53.0	30.080	51.4	N	50	0.012	0.018	64		CS+K
31	59.0	55.4	30.036	50.0	W	67	—	—	69		CS.

62.77 61.71 30.877

1.646 1.933

1870	10 P.M.			Hydro	Anemo		Thermos				
August	E	A	Bar		Dir	Sp	Max	Min			
1	60.8	66.9	29.800	61.2	NE	59	77.3	59.4	26	f	K
2	61.2	68.	29.783	61.6	NW	37	79.1	55.9	26	m	K
3	62.0	68.0	29.508	61.5	SW	116	79.0	55.3	0	g	KS
4	57.9	62.3	29.466	58.7	S	142	70.5	58.3	39		C
5	56.8	63.5	29.556	58.5	S	126	70.8	57.0	610		
6	54.5	64.6	29.616	60.2	E	180	72.5	54.0	0		K & C.S.
7	52.8	64.8	29.668	60.4	N	96	72.6	53.7	0	g	K & KS
8	60.0	65.0	29.956	59.2	S	64	76.0	57.0	610	slight	
9	57.6	65.0	30.064	57.8	SE	60	77.0	56.2	610		
10	61.3	68.0	30.084	57.0	SW & S	67	81.2	54.0	39		KS. Saw 22 falling stars from 10 till 12.
11	61.2	68.3	30.150	61.0	NE	67	80.0	59.0	0	g	
12	59.5	68.4	30.203	57.3	NNE	66	78.	55.2	106		
13	61.6	66.8	30.194	62.2	E	79	76.7	55.0	106	Flare strong,	Saw one magnificent falling star.
14	56.0	65.0	30.146	58.3	NE	105	68.7	54.5	610		
15	55.3	61.0	30.064	55.6	NE	116	67.2	50.3	610		
16	56.3	65.0	30.028	56.6	NE	77	73.8	48.8	610		
17	55.1	63.0	29.952	53.0	NE	74	73.8	51.4	610		
18	55.2	64.3	29.834	55.7	NW	91	74.0	51.6	63		CK.
19	50.0	57.5	29.950	53.0	NW	75	66.5	57.0	66		K
20	47.3	54.3	30.058	49.9	NW	82	67.0	46.8	610		One bright auroral streamer.
21	49.3	61.0	30.038	48.0	E	60	66.7	44.0	610	f.	
22	54.3	60.6	29.728	54.3	NW	102	66.5	48.5	65		KS.
23	54.8	61.2	29.762	52.4	WN	90	65.3	54.0	68		KS. Showers during day.
24	52.2	61.0	29.850	52.3	W	113	68.0	50.6	68		KS.
25	54.5	61.3	29.816	50.2	NW	clock stopped	68.3	48.5	0	g	KS. & K
26	50.7	60.5	29.864	52.4	WN	66	65.6	47.7	62		C.S. & K near S. Horizon
27	57.2	58.5	29.361	53.2	SW	105	59.2	49.0	0	g	Rain almost the entire day.
28	48.7	57.6	29.672	50.9	NW	85	62.0	49.7	65		KS.
29	46.3	57.0	29.950	49.0	WN	81	62.3	45.8	610		
30	44.2	58.0	30.176	48.7	NE	57	64.3	43.0	610		
31	53.6	57.0	29.814	52.0	SW	105	68.0	44.0	0	g	KS.
	55.65	62.75	29.875				70.90	51.91			

1870	10 H.M.			H4960	Anemo		Omizo			
September	E	A.	Bar.	dry wet	Dir	Sp	Sq.	R.		
1	63.4	58.2	29.494	65 61.3	SW	142	0.101	0.109	62.	CS.
2	60.4	58.0	29.176	61.5 58.2	SW	93	0.750	0.723	63	CS & K
3	54.2	56.5	29.482	52.6 49.2	NW	88	--	--	62	CS & K
4	61.2	56.0	29.546	62.2 51.2	SW	131	0.037	0.030	65	CS
5	61.7	58.2	29.132	63.2 57.2	S	200	0.129	0.167	62	CS & K
6	56.3	57.6	29.148	57.7 51.4	E & N	39	0.051	0.050	0	CS.
7	55.7	55.2	29.142	56.6 52.0	SW	42	0.118	0.137	0	CS
8	55.6	54.5	29.535	56.5 44.3	W	83	0.012	0.005	64.	CS.
9	57.3	56.7	28.884	58.2 51.0	SW	297	0.206	0.234	64	CS
10	55.3	55.0	29.486	56.2 50.6	NW	203	0.274	0.346	66	CS
11	55.8	54.3	29.946	56.1 52.8	SW	57	--	--	63	CS & K
12	55.1	56.0	29.754	56.0 54.7	W	169	0.179	0.188	0	CS. Rain during night.
13	57.0	56.4	29.633	57.8 56.5	SW	162	0.636	0.672	0	CS. Heavy rain during night.
14	55.0	54.8	29.808	56.3 51.3	NW	70	0.085	0.100	62	CS & K
15	55.8	53.8	30.050	57.5 52.0	SW	30	0.006	0.006	0	CS.
16	59.8	56.0	30.232	60.7 57.4	SW	59	0.221	0.195	0	CS.
17	58.2	56.8	30.228	59.3 57.5	SW	81	0.006	0.004	0	CS.
18	59.2	59.2	30.170	60.4 56.1	E & S	36	0.032	0.030	64	CS.
19	60.8	58.5	30.064	61.5 57.3	S	97	0.000	0.000	62	CS.
20	62.1	58.7	30.096	63.4 58.2	SW	77	--	--	63	CS.
21	63.7	59.5	30.128	64.8 61.4	SW	23	--	0.004	62	CS
22	63.2	59.8	30.082	64.0 58.0	SE	70	0.005	0.005	68	C
23	62.0	61.4	30.092	61.0 56.6	SE	77	--	--	61	C
24	60.2	60.2	30.056	61.2 56.0	SE	86	--	--	65	C.
25	61.6	60.5	30.168	62.8 60.3	N	20	--	--	0 f.	C.
26	62.7	60.6	29.998	63.8 61.0	SW	50	--	--	61	CS & K.
27	60.6	61.0	30.146	61.6 57.6	E & S	53	0.008	0.021	64	C & CS.
28	58.5	58.2	30.168	54.7 53.7	N	28	--	--	0 f.	C.
29	58.0	58.0	30.216	58.8 56.9	S	38	--	0.004	610.	
30	52.6	56.8	30.287	53.5 53.0	NE	13	0.005	0.017	0 f.	C.
	58.6	57.55	29.946				2.861	3.057		

1870	10 P.M.			Hgmo	Anemo		Thermo		Appearance of Sky at 10 P.M.		
Sept.	E	N.	Bar		Dir	Sp.	Max	Min			
1	53.8	59.5	29.2187	54.2	111	SSW.	71.2	50.5	0	g.	Heavy haze.
2	50.5	59.0	29.238	50.8	123	SW	66.4	49.2	610.		
3	46.8	56.8	29.668	47.2	131	SWNW	60.8	48.0	69	KS at N.	splendid aurora & streamers.
4	56.7	59.3	29.305	56.0	270	SSW	63.2	45.5	0		KS. Heavy rain from 7 till 8.30 P.M.
5	52.6	59.0	29.272	52.8	162	WSW	66.7	53.0	0	KS.	
6	48.9	57.5	29.144	49.0	54	S	61.2	50.8	9%	KS in N.	
7	47.0	55.8	29.352	47.2	89	WES	60.5	47.5	6%	KS.	
8	54.0	57.3	29.216	52.3	123	SEES	62.3	45.3	0	KS	rainy.
9	49.8	54.4	28.904	50.1	421	WSW	60.6	50.3	0	KS.	
10	48.8	55.8	29.848	48.4	113	WNW	62.0	48.8	0	CS.	
11	51.8	56.0	29.842	52.4	118	SW	62.0	44.0	0	KS.	
12	52.5	56.5	29.822	52.3	124	SW	62.3	51.8	0	g	KS.
13	49.2	55.8	29.662	49.2	153	W	62.0	52.0	69	CS.	Sky completely covered 5 th before.
14	47.0	52.8	29.964	47.0	45	SE	61.3	46.5	69	f.	Halo round moon.
15	55.3	55.3	30.120	55.8	72	S	58.0	44.3	0	g	KS.
16	56.5	57.0	30.248	56.0	69	SW	64.2	55.0	0	g	KS.
17	55.4	57.2	30.192	55.8	39	NESSE	61.5	56.0	0	g	
18	55.3	58.7	30.122	55.8	38	SEES	65.7	53.2	0	g.	CS & KS.
19	54.7	58.8	30.050	54.4	123	SW	67.3	55.8	69	v.	
20	58.7	60.7	30.178	58.0	48	SW	63.2	54.0	0	f.	CS.
21	54	64	30.101	53.5	76	S. E.	70.9	52.8	0	6	R horizon.
22	54.2	60.2	30.082	54.4	87	ES	70.0	49.8	6%	CS.	
23	52.8	57.3	30.058	53.0	145	NE	66.3	53.3	8%		KS in NW & N. horizon.
24	54.7	61.8	30.132	54.8	102	N	67.0	53.0	5%		Splendid auroral streamers.
25	57.9	61.8	30.082	57.3	23	SW	66.0	53.7	0		C & CS.
26	55.0	62.2	30.116	55.7	79	NE	68.8	53.8	0	g. & n.	C & CS.
27	55.8	61.3	30.134	56.6	43	SES	65.0	53.6	0		C
28	56.2	61.2	30.150	56.4	52	SE	67.4	49.3	8%		min horizon stars not very bright.
29	50.3	60.5	30.268	50.3	43	S	64.0	48.5	9%	f.	Heavy dew on roof
30	50.2	59.7	30.328	50.0	22	SE	66.3	45.7	10%		
	52.89	58.46	29.825				64.80	50.43			

1870	10	A.M.		Hygro	Anemo	Ombro			
October	E	A	Bar	dry wet	Dir	Sp.	Sq.	R	
1	54.8	56.0	30.368	55.7 54.2	E	23	0.003	0.010	b3. C
2	56.8	56.0	30.296	57.2 56.2	E	34	0.006	0.017	510. No rain, but heavy dew.
3	54.8	54.2	30.298	57.7 56.0	NE	35	0.005	0.011	0 C.
4	50.8	53.3	30.342	57.6 51.3	NE	24	0.006	0.019	0 - f.
5	47.1	53.1	30.192	47.8 47.7	NE	17	0.011	0.019	0 L.
6	53.6	53.8	29.922	54.2 49.3	SE	36	---	---	51 C.
7	53.7	54.0	29.516	54.3 52.7	SE	36	under mark. 0.176	0.176	0 C. r. Spout of D gauge let rain out.
8	51.2	53.7	28.980	51.3 51.2	E	180	0.953	1.330	0 C + K. r
9	46.0	50.5	29.080	45.7 41.0	N	100	0.144	1.018	0.3 K & rolled K in of Horizon
10	45.0	51.0	29.446	45.3 41.0	NW	31	0.007	0.000	510. v.
11	46.0	47.5	29.672	46.7 45.0	SW & S	66	0.006	0.003	59 K.
12	49.8	49.7	28.670	50.1 49.7	E	233	0.317	1.133	0 r K:
13	49.3	50.7	29.372	49.4 49.2	N & E	111	1.220	1.635	0 r
14	46.7	49.3	29.843	47.2 41.0	W	50	0.078	0.087	510.
15	48.8	48.8	29.650	49.2 47.3	S	41	0.006	0.003	51 C.
16	53.7	52.7	28.768	54.6 53.4	S	207	0.450	0.564	0 C + CS.
17	47.3	49.9	29.278	47.7 41.8	W	192	0.076	0.110	57. C + K
18	50.0	48.0	29.404	50.4 48.7	S	139	0.014	0.021	0 r. C + K
19	47.4	49.8	28.870	48.0 47.3	S & E	243	0.823	1.067	0 C.
20	48.6	49.0	29.148	48.2 47.8	W	279	0.460	0.617	0 r C + K.
21	47.8	48.2	29.700	48.5 46.4	SW & S	82	0.062	0.145	0 C + KS
22	51.3	51.7	29.478	52.0 49.8	SW & S	---	---	---	53. K + C. Same dir. of wind for 24 hours.
23	51.1	50.4	28.456	51.8 50.6	S & W	269	0.334	0.383	0 C.
24	51.3	50.3	28.728	52.3 48.0	W	190	0.420	0.569	51. C, K, KS.
25	46.2	47.8	29.194	46.3 44.2	S & W	174	0.018	0.028	59 KS. in Horizon
26	45.3	46.0	29.164	45.7 43.2	SW	217	---	0.002	55 C.
27	46.7	46.8	29.298	46.8 45.4	SW & S	184	0.020	0.024	53. C + KS.
28	49.8	48.0	29.710	50.3 47.8	W	132	0.080	0.076	54 C + KS
29	51.3	50.0	29.480	51.7 51.3	S & W	167	0.379	0.419	0 r C.
30	46.2	46.2	29.610	46.3 44.8	SW	148	0.026	0.043	53 C
31	47.2	48.3	29.527	47.9 45.4	NW	61	0.416	0.385	0 g - K + KS
	49.60	50.47	29.467				7.616	9.914	

1870

10 P. M.

Hygro

Anemo

Thermo

October

E

H

Bar.

dry
wet

Dir

Sp.

Max.

Min

1	48	56.7	30.340	47.8	NESE	66	63.0	42.8	5.10.
2	51	58.0	30.286	47.0	NE	101	64.2	45.8	5.10.
3	48.7	53.8	30.324	48.7	SE	87	62.7	41.0	5.9 Clouds at D near horizon.
4	43.2	52.2	30.278	48.4	SESE	39	61.3	42.2	0 dense fog.
5	49.3	54.0	30.060	43.2	WN	26	54.7	43.0	0 f.
6	49.7	53.3	29.748	48.7	SESE	59	59.0	48.5	0 K.
7	50.2	54.0	29.214	49.7	ENE	147	56.0	49.0	0 r. very heavy rain in evening.
8	45.2	52.6	28.945	50.2	NE	147	54.0	45.2	0 r. g.
9	—	—	—	—	—	—	—	—	—
10	37.4	43.3	29.600	45.2	SW	54	53.6	31.5	5.10. —
11	44.3	50.0	29.572	47.4	ES	64	53.3	36.2	5.10. Moon. Stars very good.
12	48.7	51.3	28.760	42.2	NW	250	56.7	43.8	0 C+CS.
13	46.2	50.7	29.694	48.6	SW	53	52.8	45.8	0 r.
14	41.8	47.8	29.828	46.3	SWSE	54	55.8	39.5	5.10. K+KS
15	50.2	51.0	29.075	46.4	S.	270	55.3	38.7	5.10. Very bright aurora & very red. Green near horizon.
16	46.7	51.6	28.850	49.9	W	188	58.0	47.0	0 K.
17	40.0	48.0	29.534	46.5	SW	139	52.5	40.5	0. g. K
18	50.4	52.0	28.932	45.7	SE	304	55.7	38.0	5.10. g. r.
19	47.0	49.2	28.964	40.0	W	203	54.8	45.4	0. g. K+C.
20	47.4	49.8	29.615	47.1	WNW	256	54.8	45.0	0. g.
21	52.0	51.3	29.558	47.7	SSW	—	55.4	42.2	0. g. K.
22	46.3	49.7	28.886	47.2	SESE	180	55.7	46.0	0. r. K+C.
23	47.4	49.8	28.374	58.6	SWSE	262	54.8	46.3	0 C. Rained heavily all evening.
24	42.9	48.7	29.073	47.6	S.W	236	54.2	42.5	6.6. H.S. Splendid aurora red & green at 8 p.m. S+E
25	40.2	47.0	29.234	40.1	SWSE	177	50.6	39.0	7.5. C. Splendid aurora red & green at 6 p.m.
26	40.9	46.2	29.242	39.3	SWSE	178	51.3	38.5	8.5. B.S. W. Stars extremely steady & sharp.
27	46.2	48.0	29.430	40.2	WSW	124	52.7	40.6	0 r. C+K.
28	49.9	49.2	29.792	46.3	SW	120	54.3	44.0	0. g. K.
29	41.1	48.0	29.672	45.9	S.W	124	56.7	40.2	10 b.
30	47.0	48.3	29.508	50.2	SW	180	52.0	39.3	0. g. K.
31	42.9	47.1	29.023	47.3	NW by W	89	52.9	41.6	6.6. H.S.

46.07 50.42 29.447

55.49

42.30

✓

1870	10 AM			Hg	Anemo		Ombro			
November	E	A	Bar	Hg	Dir	Sp	Sq	R		
1	42.3	44.7	30.244	42.7	SW	44	0.005	0.005	38	CS.
2	47.2	46.8	30.216	47.8	S	128	0.005	0.003	61	C+CS.
3	49.3	48.7	30.302	50.2	NW	70	0.010	0.007	64	C+CS
4	48.7	48.2	30.350	48.0	SW	14	0.000	0.002	0	KS. & C.
5	45.7	47.2	30.331	46.2	SWWS	22	0.000	0.000	0	f. C+CS.
6	44.6	45.6	30.074	45.0	SW	64	--	--	0	C+CS.
7	45.3	45.8	29.835	42.7	SW	76	0.004	0.001	0	C+CS.
8	39.0	43.3	29.910	44.3	SW	18	0.007	0.013	0	thick fog.
9	36.3	39.8	29.803	39.3	NE	29	0.013	0.022	62	K.
10	35.2	39.7	29.654	36.2	SSW	53	0.007	0.003	0	Wet built there frozen.
11	39.6	40.2	29.692	35.2	W	103	0.004	0.005	69	K+KS.
12	35.3	38.8	29.264	32.0	NW & N.	109	0.071	0.118	0	C. rain with sleet.
13	40.3	40.3	29.274	39.8	W	96	0.114	0.123	62	C+CS.
14	35.0	39.6	28.983	40.8	SW	126	0.150	0.189	68	C
15	41.2	40.0	29.024	39.0	NW	90	0.130	0.140	0	See in square gauge.
16	38.0	40.0	29.178	35.0	NW	69	0.071	0.113	68	K.
17	40.4	39.6	29.364	41.1	NW	87	0.052	0.046	61	v. C.
18	36.9	40.2	29.428	39.6	W	89	0.146	0.179	61	v. C+K.
19	40.8	41.0	28.950	37.1	SWWS	243	0.235	0.280	0	C.
20	38.8	40.2	28.988	41.2	S	120	0.009	0.009	62	v. K+KS
21	39.3	41.3	28.916	41.0	SSW	99	0.121	0.122	62	C+K
22	36.0	39.8	28.858	39.0	W	84	0.005	0.005	0	K.
23	43.5	42.0	28.864	39.8	SW	158	0.116	0.137	64	K
24	46.7	44.3	28.789	42.3	SW	195	0.208	0.241	65	C
25	43.2	43.2	29.041	46.8	SSW	156	0.011	0.004	0	KS.
26	32.4	39.8	29.626	45.7	S	42	0.000	0.004	110	f. White post.
27	38.3	40.3	29.886	45.8	W	25	0.005	0.011	0	f. K
28	46.2	44.8	29.976	47.7	SE	210	--	0.001	0	K+KS
29	47.3	45.6	30.024	46.2	SE	128	--	--	0	K
30	45.3	45.0	30.194	45.6	ESS	56	--	0.005	0	K
	41.27	42.53	29.566	42.3			1.489	1.788		

low bar read N. which was manifestly wrong as shown by smoke from the distant mill chimney.

Wet built there frozen.

Wet built frozen.

See in square gauge.

1870	10 PM			Wg	Anemo		Thermo				
November	E	S	Bar	Wg	Dir	Sp.	Wind	Wg			
1	43.8	47.4	30.245	44.0	S	100	53.3	35.0	5.10.	V.	Moone. Stars extremely sharp.
2	47.7	48.8	30.222	43.9	S&W	139	52.3	41.0	0	C&CS.	
3	46.7	49.1	30.354	48.3	NW	40	52.3	46.3	0	K.	
4	44.3	48.2	30.345	46.4	S.S.W	25	58.0	42.5	1.6	K.C. m.	
5	42.7	47.0	30.257	47.0	S	25	49.4	42.3	0	C. f.	
6	46.6	46.2	29.944	43.2	S&W	57	50.0	38.7	0	K.	
7	35.4	43.6	29.556	41.2	S	41	57.3	34.3	5.10	V	Moone. Stars very sharp.
8	31.9	38.0	29.871	35.4	N	50	46.2	33.0	6.10	V	Moone. Stars very sharp.
9	32.1	40.5	29.742	32.6	NW	73	46.0	28.5	6.9	V	Moone. KS.
10	35.0	40.3	29.726	32.3	NW	141	44.3	30.8	6.5	V	Moone.
11	33.8	40.2	29.503	31.7	N	120	43.8	22.0	0	C, K & KS.	
12	35.0	39.5	29.258	34.8	S&W	61	39.3	31.8	0	C&CS.	
13	36.7	41.6	29.608	34.4	SW	160	46.0	34.2	5.2	V	CS.
14	30.8	39.8	28.958	36.1	SW&S	125	40.8	31.2	6.7		C&CS in
15	35.0	40.9	29.152	30.7	SW&S.	187	46.3	30.8	5.8	V	KS.
16	31.4	38.0	29.258	34.8	SSW	69	41.3	30.8	6.2		K & KS.
17	39.9	40.3	29.474	31.7	NW	126	46.1	30.4	0		T & g. K
18	37.4	40.0	29.048	31.3	S	167	43.3	32.0	0		K C&K.
19	33.4	40.1	28.996	39.2	S	75	43.7	31.8	6.7		KS in K.
20	39.4	42.0	28.954	37.6	S.	199	45.3	31.7	0		K & KS.
21	37.3	42.0	28.984	39.8	S&W	129	46.3	37.0	0		g. K.
22	40.8	41.2	28.670	32.1	S	122	44.0	33.0	0		g. K & KS
23	41.8	42.3	28.942	40.3	SE	166	47.3	38.2	0		g. Too dark to see vane.
24	42.7	44.8	28.800	42.0	S&W	182	51.0	41.3	0		K & KS.
25	35.3	41.3	29.410	39.9	S	124	48.0	36.0	6.9		KS in SE. Stars very sharp.
26	32.0	40.6	29.780	43.1	SW	28	40.3	30.0	0		f. K
27	47.8	44.0	29.918	42.3	SE	129	50.0	32.0	0		g. K.
28	47.3	45.3	29.954	42.3	SE&S	186	50.6	45.8	0		K & KS.
29	45.5	45.3	30.086	35.3	ESE	87	50.3	44.8	0		g. K. slight rain.
30	42.8	44.0	30.254	45.8	SE	129	49.0	42.6	0		K
	38.91	42.75	29.566	43.2			47.36	35.66			
				39.2			47.4				

1870	10 AM			Hygro		Anemo		Ombro			
December	E	A	Bar	Dry	Wet	Dir	Sp	S	R		
1	41.0	43.0	30.322	41.5		SE	118	--	--	0	K
2	38.9	42.0	30.368	36.8		SE	89	--	--	0	KS.
3	36.3	40.0	30.292	36.7		NE	21	--	--	0	KS
4	41.8	41.3	30.216	42.5		N	36	--	--	0	K
5	39.7	41.0	30.198	41.2		NW-N	34	0.408	0.005	0	R.
6	42.7	41.6	29.342	40.0		N	117	0.010	0.003	3.10.	
7	32.8	38.8	29.785	32.3		N	83	--	--	6.10.	
8	25.8	35.6	29.545	31.4		SW-N.	78	--	--	7.8.	KS. Snow-fall during night.
9	36.7	46.2	29.584	25.8		NE	35	Prosen	0.109	0.9.	K. K.
10	38.7	38.3	29.792	36.1		EN	72	0.581	0.543	0	K
11	38.0	38.6	29.552	38.8		E	85	0.004	0.010	0	K.
12	38.8	30.1	28.877	37.8		NW-E	153	0.756	1.254	0	K T
13	31.8	36.8	29.188	37.2		SW	105	0.110	0.110	7.6.	K. Cock & quare open.
14	48.2	40.8	28.490	36.8		ES	213	0.367	0.548	0, 2. f.	K
15	41.3	41.8	29.184	48.3		WS	245	0.007	0.063	0	K+KS
16	30.8	36.0	29.632	47.6		SW	53	--	--	0	C+KS.
17	32.5	34.0	29.776	42.0		SW	91	--	--	0	K+C.
18	46.2	40.0	29.744	40.8		N	254	0.115	0.174	0	K.
19	43.7	43.7	29.484	30.8		SW	227	0.164	0.269	0, 2.	K
20	40.2	43.1	29.118	37.3		WS	115	0.128	0.150	3.1.	C+K
21	35.8	39.2	29.648	37.1		E	88	0.133	0.135	3.1.	K.
22	26.8	38.2	29.818	36.7		SESW	148	--	--	3.10.	
23	20.4	36.0	29.748	35.0		SE	13	--	--	3.10	f.
24	23.2	26.4	29.408	33.2		N	22	--	--	0	f. K
25	23.3	28.8	29.551	22.6		SW	43	--	--	0	K.
26	26.2	27.7	29.812	23.3		NW	35	--	--	3.10.	
27	31.5	30.0	29.657	25.3		SE	63	--	--	3.1	K
28	25.4	30.3	29.776	28.0		NE	69	--	--	3.9	K.
29	30.0	31.2	29.926	20.3		NW	38	--	--	0	K
30	26.2	29.7	29.972	29.8		WS	55	--	--	3.8	f. C.
31	28.3	29.2	29.930	26.0		S	184	--	--	0	C+K.
	34.45	36.95	29.697	28.4				2.383	3.373		

1870	10 P.M.			Hygro	Anemometer		Thermometer			
December	E	A	Bar:	Wet	Dir	Spd	Wet	Dry		
1	41.3	42.8	30.360	41.6 37.7	SE	137	46.7	40.6	0	K.
2	35.8	40.8	30.348	36.0 34.0	S	124	45.0	35.2	0	K.
3	39.5	41.0	30.224	39.6 35.2	NW	36	42.8	34.6	0	K.
4	39.0	42.0	30.258	35.8 38.8	N	34	46.0	39.3	63.	K. Moon.
5	40.3	42.0	29.964	40.6 39.4	NW	63	45.0	37.2	0 K, K.	
6	34.3	40.7	29.914	33.7 31.8	N	158	46.4	34.3	110.	Moon.
7	31.3	36.3	29.686	31.3 31.6	NW	86	39.1	29.8	0 heavy K	Corona round Moon.
8	25.4	36.1	29.765	24.9 36.8	SSW	43	35.2	24.9	10.6	Moon clear - snow on ground
9	36.7	38.0	29.716	36.3 39.5	E	170	40.0	25.0	0 g, K, K.	
10	39.4	39.0	29.728	36.8 36.8	E	94	42.6	36.6	0	K.
11	36.8	38.2	29.266	35.5 34.8	E	80	42.6	35.0	0 K, K	
12	34.8	37.9	28.988	34.3 39.1	W	84	41.0	33.0	0	K & K.S.
13	38.4	38.0	29.034	37.2 42.0	ENE	68	41.2	31.3	0 g, E, K.	
14	42.3	44.0	28.824	40.8 31.5	SW	277	51.7	38.0	110.	Stormy.
15	31.5	39.3	29.442	30.3 26.4	W	56	45.8	32.0	18.	K.S.
16	26.7	35.2	29.756	27.0 38.5	SW	31	36.0	27.3	18. f.	Cloudy round horizon.
17	38.3	37.0	29.822	37.8 48.3	SW	150	45.5	25.5	0	K
18	47.8	43.0	29.594	48.0 43.3	SW	269	50.4	37.8	0 K.	K.
19	43.0	43.8	29.460	41.3 34.1	WN	153	51.4	42.5	13.	K.
20	34.2	41.4	29.526	34.0 31.0	W	73	46.6	34.3	16.	K.S.
21	30.8	35.8	29.762	37.2 31.	E	194	39.0	29.5	0	K.
22	23.9	34.	29.847	24 34.4	E	91	31	23.0	10.6	Snow on ground during eclipse
23	12.8	26.4	29.358	27.5 29.8	E	18	29.1	12.8	10.6	f Roof thermometer 9.9
24	29.0	30.8	29.464	28.9 24.0	SE	53	32.8	12.6	0.	K.
25	24.6	30.0	29.702	23.7 20.0	NW	30	32.2	21.2	10.6 f.	
26	21.0	29.5	29.724	20.0 29.7	SE	40	30.3	19.0	8.7.	K.S.
27	30.2	30.7	29.672	28.8 32.3	SE	72	35.0	19.0	4.7	K.
28	32.2	31.3	29.884	31.7 23.0	NE	29	35.0	24.8	0	K.
29	23.2	31.0	29.944	23.0 28.0	NW	25	35.5	24.0	10.6	Moon
30	27.9	31.5	29.996	27.7 32.2	SW	21	33.2	21.8	0 f.	K
31	32.0	30.5	29.672	31.8	S	275	34.3	24.0	0	K.
	33.05	36.71	29.709				40.43	29.23		
							40.44			

Summary.		10 th A.M.		10 th P.M.		Rain		Thermometer during month.					
1870	E.	A.	Barometer.	E.	A.	Barom.	Square	Round	Maximum		Minimum.		
January.	57.98	38.85	29.646	37.12	39.36	29.635	2.110	3.710	52.4	16 th	24.0	25 th	
February.	57.65	38.21	29.621	36.59	38.61	29.657	0.785	2.083	51.9	6 th	25.1	13 th	
March.	42.86	42.30	29.882	39.65	43.13	29.904	0.621	2.067	62.3	31 st	25.7	23 rd	
April.	50.44	48.73	29.905	44.86	49.77	29.894	0.525	1.214	64.8	19 th	34.2	28 th	
May.	54.27	52.41	29.758	48.72	53.52	29.793	0.550	2.461	70.4	27 th	36.3	2 nd	
June.	60.21	59.63	29.940	54.64	60.70	29.971	0.439	0.935	79.2	21 st	44.6	12 th	
July.	63.30	61.74	29.837	57.55	62.49	29.578	1.265	1.632	81.0	23 rd	47.7	27 th	
August.	62.77	61.71	30.577	55.65	62.75	29.575	1.646	1.933	81.2	10 th	43.0	30 th	
September.	58.60	57.55	29.846	52.89	58.46	29.825	2.861	3.057	71.2	1 st	44.0	11 th	
October.	49.60	50.47	29.467	46.07	50.42	29.447	7.616	9.914	64.2	2 nd	31.5	10 th	
November.	41.27	42.53	29.566	38.91	42.75	29.566	1.489	1.788	58.0	4 th	28.5	9 th	
December.	34.45	36.95	29.697	33.05	36.71	29.709	2.383	3.373	57.7	14 th	12.6	24 th	
Summer.	58.12	57.25	29.954	52.58	58.06	29.738	14.377	19.932					
Winter.	40.78	41.26	29.719	38.36	41.72	29.727	7.913	14.235					
Year.	49.45	49.25	29.836	45.47	49.89	29.732	12.290	34.167					
Days of Rain.	Mean Thermometer.	Mean Barometer.											
January.	16	57.55	29.640										
February.	15	57.12	29.639										
March.	13	41.25	29.893										
April.	15	47.65	29.899										
May.	17	51.50	29.775										
June.	13	57.42	29.955										
July.	18	60.42	29.837										
August.	16	59.21	30.876										
September.	21	55.74	29.835										
October.	28	47.83	29.457										
November.	27	40.09	29.566										
December.	13	33.75	29.703										

Mean temperature of Year = 47.46

Maximum Heat on Aug. 10th = 81.2

Minimum Dec. 24th = 12.6

Mean Barometer = 29.784

Maximum Feb. 12 = 30.439

Minimum Oct. 23 = 28.274

Day of Greatest Rain Oct. 13th Square = 1.220
Round = 1.635