1849	Morning 22 H.			Wind			Rain		
January	E	A	Bar =	Hygr:	Dir	Force	Squ:	R.	
1	34.5	38	29.828	34 / 32.2	ESE	1	0.094	0,016	0. m
2	31.2	41 8	29.588	30.2 / 28.8	NE	2	— — —		6/10 r
3	29.8	42	29.686	28.5 / 27 8	NE b N	3	— — —		6/9 r. m rome cumule
4	28 5	33	29.711	27.1 / 27.1	NNE	0	— —		6/8 cumulus. m
5	34.1	35	29 852	33.7 / 32.0	E.	0	— —		0. m.
6	36.6	35.7	29.760	38.5 / 34.1	SSW	1		0.012	om
7	42.4	39.6	29 .360	42.4 / 41.2	WbS	1	0.190	0.365	bc m
8	38.7	39.8	29,348	38.6 / 38.1	SSW	1	0,050	0.080	om
9	43,8	41.2	28.664	43.5 / 41.2	WNW	5	0.066	0.390	b.c.q.r
10	41.1	40	29,550	39.8 / 37	NWbN	2	0.181	0.757	o. r
11	44	42	29.580	43.6 / 43.1	S	5	0.006	0.067	o. r. r
12	45.	42.5	29 384	43.7 / 43.0	SW	2	0.118	0 326	o m r
13	42	44.	29 152	41 5 / 40 3	WbN	4	0 845	0.893	b/8 c v
14	42 6	40 8	29 617	42.8 / 40.6	SWbS	5	0 009	0 043	bc v 42.3 / 40.8
15	40.9	41	29.499	40.5 / 39.5	E	0	— —		0. m
16	43	43	29.440	42.3 / 42.0	WbN	3	0 138	0.283	b/9 cumtor. r
17	48.7	48.1	29.320	48 3 / 48	SWbS	10	0,010	0,038	ogd
18	45.5	44.6	29.596	45.5 / 44 3	SSW	2			om
19	36 8	40 3	29 931	36 — 3	SbW	0	0.172	0.390	b/4 c m
20	48.1	46.8	29.547	47.2 / 47 3	SWbS	6	0.186	0.382	r
21	40.8	42	29.696	40.5 / 38.5	SW	7	0,092	0.672	b/4 c.m
22	49.1	44.5	30.021	49.9 / 46.0	W	6	0.009	0.102	o. r. q
23	48 1	46.1	29.888	48.1 / 46.1	S	10	— —	0.006	o. r
24	50	48	29.550	49 / 48.4	WSW	8	0.000	0.444	o. m
25	37.2	42.1	29.500	37.1 / 36.2	SW	6	0,026	0.126	b/8 strates. r
26	39	39.2	29.436	38.3 / 36.7	SSE	5	— —	0 003	o. q. r
27	36.1	39	29.152	35 / 32.7	SWbW	3	0.190	0.280	b/8 cum. r
28	34.9	38 8	29.876	33.9 / 33.8	N	0	— —	— —	o. strates. m
29	48.1	41.9	29.488	47.9 / 45.8	SWbW	8	0.105	0.265	o. m. q. r
30	40.2	45.1	29.017	39.4 / 38.1	SWbW	2	— —	0.194	b/6 cumstrat r
31	41.8	40.7	29 911	41 / 40.7	S	5	0.105	0 168	o.r.r
	40.73	41.73	29.548				2,422	6.302	

1849	Evening 10h				Wind		Therm.		
January	Tr	A	Bar	Hygr:	Dir:	Force	Max	Min	
1	36	38.2	29.954	35.8 / 33.8	ESE	4	38.5	33,2	q. d
2	29	35.5	29.648	27.9 / 26.9	EbN	1	35	26	b/10 . v
3	25.8	33.2	29.598	24.5 / 23.2	NEbN	2	31	24.9	b/9 . Strata rem forron. v
4	33.2	34.2	29.650	33 / 31	NE	3	35	26.5	o. v (a number of large ⊙ spots)
5	33.2	34	29.825	33 / 32	ESE	3	34	28	b/9 . cumulo v.
6	35.1	35.1	29.762	35 / 34.1	SbE	2	36.8	33	o. v
7	41.3	38.4	29.314	41 / 40.4	SSE	6	42.4	33.6	ro
8	42.1	40.9	29.188	41 / 40.1	SWbW	5	46.1	34.7	b/2 . c . v
9	45	40	28.760	44 / 42.8	SSW	8	46.5	36.2	o. d. q. v
10	40.2	40	28.998	39.5 / 38.1	WNW	7 / 10 cm rapide	44	38.1	o. q. v. d
11	39.9	40	29.811	40 / 39.1	SSW	2	44	37	b/05 Strata. v
12	42.9	42	29.556	42.7 / 41.1	SSW	5	48.4	43 2	o. q. v
13	47	42.8	29.042	46.9 / 46.8	SW	4	51 8	41.2	o r d
14	37.8	41 1	29 627	36 5 / 35.4	SWbS	5	43	36.5	b/4 c. v
15	40.5	42.5	29.608	40.1 / 39.5	WbN	4	46	36.2	b/c m
16	41.5	42	29.320	41.3 / 40.1	S	3	48	39 5	o
17	41.1	4.2.4	29.468	40.2 / 39.4	SSW	4	48.7	41	o m — a number of large ⊙ spots 51.8?
18	46.8	44.8	29.448	46.5 / 45	SW	6	55.8	42.7	o m
19	38.9	43.4	29 759	38.2	NNE	1	46.8	32 —	b/10
20	44 8	42.7	29 767	44.5 / 43 6	SSW	6	50.8	35.6	o d — the ⊙ spots increased in Number
21	41.7	45.	29 390	41 3 / 39 4	SW	8	52	36	b/10 c lightening between 7 & 8.
22	40.5	42.1	29 959	39 4 / 37 2	SWbW	8	52 1	40	br
23	47.5	45.8	29.080	47.2 / 45.2	SSW	10	51,8	46	o. v Singular Barometer high
24	49.9	48	29.706	49.9 / 48.1	SWbW	10 / 11	50	48	o. v
25	41.2	45.1	29.456	41.4 / 40.5	WSW	7	50.8	36	b/6 . c . v Aurora
26	36	40.8	29.696	34.7 / 33.3	WSW	5	51	31	b/10 . v. Aurora — some change in ⊙ spots, the large in number & size
27	37.7	41	29.108	37.0 / 36.3	WbS	4	42.9	32	o. v.
28	36.5	40	29.487	35.1 / 33.9	N	1	40	31	b/10 . h . v
29	34.2	37	29.728	34 / 32.8	S	8	48	33.5	o. s
30	39	41	29.792	38.7 / 36.9	WSW	2	51.2	36	o. v
31	35.8	40	30 066	35 3 / 34. 8	SbW	2	50. 6	35.8	b/8 m v many small ⊙ spots
Mean	39.42	40,60	29.551				45,68	35,61	

1849 Febry	Morning E.	A	Bar	Hygd	Wind Dir.	Force	Squ	Round	
1	47.6	44	30-024	47 2 / 46 8	SSW	5	0 066	0 127	o m dr.
2	50 —	46·1	30 059	49 5 / 46 5	SSW	5	— —	0 022	o v
3	49 —	46·9	30 141	48 4 / 47 6	SW6W	5	— —	0.052	o m d. v
4	49·5	46·7	30 216	49 — / 47 8	WSW	4	——	0.021	o c v
5	46.8	46·	30-145	46.4 / 44·7	SW6S	5	——	——	o v
6	47·5	46.8	29.995	47 3 / 44·6	S6W	5	—	—	o v
7	43.9	46	29.792	43.1 / 40·5	W6N	3	0.078	0.232	b_6. cum. r
8	44.8	44	30.036	44.7 / 42·5	SW	5	—	— —	o. m
9	47. 1	46-4	30.056	46.8 / 43.3	WSW	6	—	0·194	b_6 v
10	43 · 8	43 · 4	30 666	43 — / 41·9	S6W	4	——	——	b_3 v m M tremulous
11	41 4	40 · 7	30.433	41 6 / 39·3	SSW	4	——	0.001	b_7 v
12	47 —	44· 8	30 333	46 6 / 43·8	WSW	4	—	0.008	c b_3 v
13	43 . 2	41· 8	30 393	42·7 / 41·3	SW6S	5	—	—	o v
14	48·	44. 4	30.391	47. 3 / 43·4	WSW	4	—	—	c b_1 v
15	43 . 3	43 . 4	30 267	42 · 9 / 40 · 7	SW6S	6	—	—	c. b_6 v
16	43 . 7	44 · 2	30 373	43 · 2 / 41 8	SW6S	4	—	—	b_9 h v
17	51 . 1	46 · 7	30 195	50 · 8 / 48 · 9	SW6W	5	—	0.048	b_3 c v
18	51 . 6	48 . 4	29 521	51 · 4 / 48 · 9	SW6S	8	—	0.002	b_1 c m r
19	42 5	44 . 1	29 514	43 · 1 / 41 6	SSW	2	0 . 034	0 . 348	o m r
20	43 ·	42 . 2	29 672	43 . 2 / 41 . 3	S6SW	4	0 . 045	0 . 052	o . m . r v
21	46 . 9	45 . 3	29 . 425	45 . 4 / 41 . 9	W6SW	7	0 . 101	0 . 407	c b_3 . v . r . q
22	42 . 7	42 . 4	29 - 750	42 . 2 / 40 . 3	SW	4	0 . 007	0 . 080	o h v
23	38 . 9	40 . 2	29 449	38 5 / 37 . 2	WSW	4	0 . 174	0 235	b_n . h v
24	37 1	39 . 3	29 312	36 . 7 / 34 7	S6SW	1	——	——	b_3 . h v . c strabelu N. strabeam S.
25	36 . 1	37 . 5	29 . 573	35 . 2 / 32 . 8	N6NE	1	——	0 . 006	b_2 m cirrostratus
26	40 . 2	38 . —	29 721	39 . 5 / 36 . 2	S6SW	6	——	——	b_7 . o h . cirrothal . & cirr : cum : m heaving
27	39 . 1	50 . 5	29 . 105	36 . 7 / 35 . 3	W6N	8	0 . 128	0 . 567	b_7 . cum . v . s
28	43 . 2	41 . 9	29 . 624	42 . 8 / 39 . 2	W½S	3	— —	0 . 123	b_7 . cir . cum . v
	44 . 21	43 . 93	29 . 935				0 . 653	2 . 507	

1849		Evening				Wind		Therm		
February		E	A	B	Hyg	Dir:	Force	Max	Min	
4	1	44.2	42.5	29.975	43.9 / 43	SSW	3	47.8	40.3	o m v
	2	48 8	46 5	30.024	48.4 / 47.6	SSW	4	51 2	45.5	o v
	3	50 - 2	47. 5	30.034	49 - 8 / 49 - 1	SW b S	7	58 - 5	47.2	o v m
⊙	4	47. 5	47. 1	30.219	47. 2 / 46 - 9	SW b S	6	50 . 4	46 —	c. b_2 v
	5	47. 2	47. —	30 - 193	47. 2 / 46. 1	SW b S	3	50. 7	45. 4	o c v
	6	46 . 4	46 . 2	30 . 076	46 . 2 / 44 . 1	S b W	5	49 .	45 2	o v
	7	48 - 5	47 - 2	29 743	48. 3 / 45 - 9	SW b S	8	51.5	41.5	o v
	8	38.5	43 5	30 000	37.9 / 37.5	S W b W	5	45.9	37.5	b_7 . c . v
	9	50 2	47. 8	29 865	50 — / 48 5	SW	9	51 6	44 . 2	o v q
	10	40 . 2	45 . 3	30 . 419	40 . 1 / 38 . 4	SW b W	3	51 . 9	37 . 8	b_7 c v
⊙	11	37 . 3	43 —	30 . 600	36 . 2 / 35 . 8	S	3	48 . 2	34 4	b_9 . c v
	12	41 . 9	43 —	30 256	41 6 / 40 . 1	S	5	46 8	40 . 2	o d
	13	37 7	43 —	30 466	37 . 2 / 35 8	SSW	4	48 . 2	36 . 8	b_9 c d
	14	45 . 9	44 . 2	30 305	45. 4 / 43 . 3	SW b S	8	48 - 1	39 . 5	o d
	15	44 . 8	45 . 3	30 377	44 . 6 / 42 . 3	W b SW	4	49 6	38 9	o b_1 d
	16	44 8	45. 6	30 277	44 . 2 / 42 - 9	W S W	5	48 8	36 . 4	b_6 . c . v
	17	47 . 1	46 —	30 . 176	46 . 9 / 45 . 7	SW b W	7	50 . 8	41 . 7	o g . faint light all round horizon
⊙	18	48 . 9	48 —	29 . 933	48 . 6 / 46 . 2	S S W	9	54 . 3	40 . 9	o c aurora behind clouds to NW
	19	41 . 9	45 . 7	29 - 809	41 . 4 / 37 . 9	W b N	6	53 - 5	40 —	c b_4 v - aurora behind clouds to N -
	20	38 . 8	43 9	29 662	37 . 8 / 36 . 3	W b N	2	43 . 6	36 . 8	b_9 v aurora
	21	49 —	46 . 2	29 533	42 . 3 / 46 3	W b N	4	52 9	41 . 3	c b_4 q aurora
	22	40 . 9	44 . 1	29 584	40 . 2 / 38 . 9	W S W	8	47 . 1	37 —	b_{12} . auroral arch
	23	34 . 3	42 . 7	29 309	34 . 5 / 34 . 2	W b N	3	46 . 6	32 . 3	o light to south very dark to North
	24	36 —	42 — 1	29 . 391	35 . 3 / 33 . 2	S	3	42 . 2	30 . 7	b_4 v . c . aurora
⊙	25	32 . 9	40 . 2	29 384	32 / 30 . 8	NE b N	1	43 —	28 . 6	b_5 . v cirrostratus
	26	33 . 1	40 . 7	29 704	32 . 2 / 29 . 5	E b S	3	40 - 1	32 . 6	b_5 . v cumulus slight aurora NW
	27	37.9	40.1	29.306	37.2 / 36.2	S . b E	8	44.9	36.0	o . r . q
	28	38	39 . 0	28.984	37 / 35.8	NW b N	7	49.1	32.6	b_7 . nimbus .
		42.60	44.37	29.914				48.55	38.80	

1849

March	Morning E	A	Bar	Hygr	Wind Dir	Force	Rain Sqll	Rain Cond	
1	46	42.5	29.825	45.2 / 43.5	SW6W	7	0.013	0.101	6. cirrostratus cumulostrat. v. halo
2	47.8	43 —	30.082	47.2 / 45.3	SW½S	4	— —	0.001	6. Cirrostrat. & Cum. v
3	48.9	48.	30.126	48.3 / 45.0	SSW	3	— — —	0.002	6. Cumulostratus. v
① 4	46.9	47	30.259	46.5 / 43.1	W½S	3	— —	0.027	0. v
5	45.1	43.9	30.241	45 / 42.9	SW½S	6	— — —	— — —	0. v
6	45.1	46.8	29.671	45.1 / 42.8	W	5	0.025	0.327	0. v
7	37	42	29.760	36.2 / 34.3	NW6W	3	— —	0.034	0. v
8	31	43.5	29.929	30.1 / 29.1	NNW	2			6. cirrostrat. v. Snow 3 inches deep at 12h 11 is overclouded
9	37	38	30.316	36.1 / 32.8	W6S	1	— — —	0.015	0. m
10	41.7	39 —	30.023	41.3 / 39.6	SW6S	6	0.160	0.171	0. v
① 11	49.4	44.2	30.056	49.5 / 43.3	WNW	3	— —	0.003	6. Cumulostrat. v
12	52	47.5	30.096	52 / 48.2	NW	4	— — —		6. Cumulostratus v
13	49.8	47	30.196	49.8 / 48.1	WNW	3	— — —	— — —	0. v. g
14	52.5	48.9	30.226	52.6 / 51.2	S	3			10. v
15	53.1	50.5	30.201	53 / 48.9	S6W	1	— — —		6. Cumulostratus. v
16	48.8	48	30.076	48.5 / 46.9	S6E	4	— — —	— — —	0. m
17	49.7	48.2	29.868	49.7 / 46.8	S6W	5	— — —	— — —	0. v
① 18	48.2	48.1	29.749	48.2 / 46.1	SE	5	— — —	— — —	0. v
19	52.7	47.4	29.933	52.3 / 49.	S.S.W	3	— — —	— — —	0. v
20	49.	46.	30.124	49. / 47.7	S.W	2	— — —	— — —	0. m Cirrostratus
21	47.	46.8	29.995	48.2 / 45.7	SbE	3	— — —	— — —	0. m
22	40.	44.2	30.030	40. / 39.3	NEbN	2	— — —	— — —	0. m
23	46.1	46.2	29.917	46.1 / 42.9	N	1	0.001	0.010	0. v
24	44.3	45	29.928	43.9 / 42.5	SSW	2	0.071	0.109	0. m
① 25	46.8	46.2	29.883	46.7 / 41.1	N½W	3	0.020	0.036	6. Cumstrat. v
26	41.4	43.6	29.092	41.5 / 40.3	S	2	0.092	0.150	6m
27	38.3	42.6	29.426	37.7 / 37.3	NE	6	0.050	0.060	r
28	41.3	42.4	29.318	41.4 / 39.7	NNE	5	0.040	0.060	0m
29	40.2	42	29.992	39.2 / 38.9	NEbE	2	0.146	0.150	0. r. m
30	47.1	44.2	29.164	47 / 45	SE	4	0.060	0.064	6cm
31	44.8	44	29.128	44.2 / 42.8	SSE	5	0.010	0.060	0. r. v
	45.45	44.99	29.856				0.688	1.483	
								1.383	

March		Evening E	Evening A	Bar	Wind Myr	Wind Dan	Wind Force	Thermom Max	Thermom Min	
2	1	42	42.2	29.684	41.5 / 20.0	SWbW	5	46. 3	40.5	O. V
	2	43.2	43.8	30.011	43.3 / 27.0	S W	4	49 5	38. 3	O. V
	3	45.7	44.8	30.160	45.3 / 25.0	SW	5	49 —	43.2	O. V
⊙	4	47.9	46.1	30.060	47.5 / 26.5	SWbW	8	57	42.2	O. V
	5	39.5	45	30.412	32.0 / 37.9	SWbS	3	48.9	38	b. bum. V
	6	48.	46.8	29.828	48 / 45.9	SWbS	11	50.8	42 9	O. V
	7	37.7	43.2	29.716	36.2 / 34.2	W÷N	5	49	33	b. cirrostratus. V
	8	31.5	40	29.858	30.2 / 28.2	WbN	2	41.9	29.5	b. V
	9	28	38	30.170	27 / 25.8	NbW	0	40.2	25	b. cirrostratus. V
	10	36 5	39	29.789	35.2 / 32.2	W÷S	0	41	35	O. V
⊙	11	48	42 5	29.930	45 / 26.9	W÷N	6	50 2	40. 7	O. V
	12	49	45	29.068	49.6 / 28.2	WbS	3	52, 1	47.1	O. d. g.
	13	48	47.	30.181	47.8 / 46.8	NW.°	0	56	44.9	O. g.
	14	47. 8	47.5	30.217	47.4 / 46.5	WbS	2	56	45.2	O. g.
	15	48.1	48.6	30.220	48.1 / 46.0	WbN	1	50	46	O. g
	16	44 9	49.6	30.100	44.7 / 43.4	SSE	1.°	57	42	b. V
	17	48	49	29.958	47.5 / 25.2	S	3	53,5	43	b. g.
⊙	18	47 1	48.6	29.800	47 / 25.4	SSE	4	53	45,8	O. g.
	19	47.	47.5	29.747	46.4 / 45.7	SbE	6	53.	44.	O. m
	20	44.	48.	30.050	43.5 / 43.4	S.W	2	53	39	b. V Aurora to the N. W.
	21	46.5	48.4	30.040	46.4 / 45.	S	2	54.2	42	O. V
	22	39.8	47.	30.010	39.4 / 39.2	EbN	1	51.6	36	b. m
	23	44	46.5	29.961	43.5 / 42.1	N	3	51.7	39.8	O. g. d
	24	43.1	46 5	29.936	43.4 / 42.1	SbE	2	51.8	40.2	g.
⊙	25	43.9	46.1	29.896	43.1 / 42.5	NbW	3	49.8	39	b. c. V Aurora
	26	42. 1	45.3	29.583	42. 4 / 41	NW	5	50	38,4	om
	27	39. 6	44	29.148	39. 6 / 38. 4	E	3	48	38 1	om
	28	42. 2	44.1	29.300	42.1	NE	6	47.6	37. 6	om
	29	34	41. 4	29.092	39. 4	NE	4	43	33	snow
	30	39. 9	42. 2	29.082	39. 5	SE	1	47	34	om
	31	40. 2	43	29.160	39 / 37.5	SbW	9	49	38	b. stratus. V
		42.27	45.06	29.872				60.03	39.40	
				29.844						

1849	Morning 22h				Wind		Rain		
April	E	A	Bar	Hyg	Dir	Force	Squa	Roun	
⊙ 1	44	44	29.080	43.9 / 41.1	S÷E	4	0.063	0.110	b. Cum. Cirrostrat ½ v
2	46	44.5	29 384	45.7 / 42.7	WNW	1	——	0.020	b. c. v
3	46.3	46	29.321	46.2 / 42.1	SE	6	0,908	0.020	½ cirrostrat ½ Cumulus } v
4	43	44	29.264	43 / 41.8	NE	3	——	——	o. m. v
5	49.1	46.5	29.164	49.2 / 46.9	SE b S	5	— —	——	o. v
6	48.1	45.9	29.102	48.8 / 46.7	ESE	2	0.061	0.107	o. v
7	43. 8	45,	29. 330	43.3 / 42.2	N. E	7	0.089	0.164	o. v
⊙ 8	42.8	43.2	29.519	42.3 / 40.1	N. E	8	0. 065	0.116	o. v
9	40. 8	41.5	29. 723	41.3 / 37.2	N. E b N	6	- - - -	- - -	o. v
10	44,	43,	29.755	42.6 / 41.2	N	3	- - -	- - -	o. v
11	46.5	43	29 590	45 / 40.2	W	4	0. 061	0.052	o. v calm during shower
12	41.	41,	29. 050	40.2 / 39.	W S W	5	0, 034	0, 077	b. v
13	41.3	42,	29. 180	42.4 / 40.2	N E b E	3	0. 060	0.045	o. v hail
14	44.3	42.2	29. 736	44.5 / 40.2	N. E	5	0, 019	0, 025	b. v
⊙ 15	46.5	42.5	29. 683	45.8 / 43.3	N W b W	4	- - - -	- -	o. v
16	32. 9	40.7	29, 756	32.7 / 29	N W	6	0.005	0.007	b/s v Snow
17	40,	39.2	29.768	39.8 / 36.2	W	3	- - - -	0.004	o. v Do.
18	35,	39.2	29. 559	39. / 37.8	N	6	0. 130	0. 333	o, hail
19	39.2	39,	29. 743	39. / 34.	N b W	3	0 .008	0.003	o. v hail
20	41	40 4	29. 620	41. / 40.5	S. S. E	2	0, 174	0. 184	o. r
21	49.5	42.6	29. 687	49.8 / 45.6	W N W	2	0. 077	0, 136	o. v
⊙ 22	49.5	43. 5	29. 513	50. 2 / 44.2	N W b N	4	0. 133	0. 179	b. v
23	46.8	44,	29. 485	46. / 44.3	S. S W	4	— —	— —	4 o. m. d
24	50. 8	45. 7	29. 490	52. / 47.7	S. S. W	3	— — —	0. 023	b. v
25	50,	45,	29. 470	50. / 45.	W S W	5	— — —	— — —	b. v
26	47.5	45. 8	29. 277	47. 3 / 46,	S	7	0, 152	0. 202	o. r
27	51. 3	45,	29. 432	51. 2 / 47. 4	W b N	3	0, 137	0. 230	o. v
28	50. 4	46	29. 856	50. 2 / 48.	S b W	5	0. 009	0. 024	o. v
⊙ 29	53. 7	50. 2	30. 009	54. 7 / 52. 8	S E	6	— — —	— — —	o. m
30	57. 5	50. 2	30. 056	57. 5 / 54. 1	S. E	3	— — —	— — —	b. m
	45.42	43.69	29. 520				1. 285	2. 091	

Nocturnal events Cloud

1849	Evening 10				Wind		Max T	Min T	
April	E	A	Bar	Hygr	Dir	Force			
☉ 1	42.1	44	28.930	42 / 40.5	SbE	5	47.5	37	0. r
2	38	42.5	29.276	37.5 / 36.0	SWbS	4	47.5	37	0. r
3	41	44.8	29.406	40.5 / 39.5	S½E	3	52	38	½ cum.³ r
4	39.1	45	29.288	38.3 / 37.1	NEbE	3	48	37	½ c. r
5	43.6	44.5	29.252	43.5 / 42.0	SEbS	5	49.2	42,1	½ cirrocumulus. r
6	45.5	45.2	29.092	45.2 / 42.2	SEbS	6	49	43	0. r
7	45,	47,	29.263	44.5 / 43.6	N.E	9	51	42	0. r
☉ 8	41,	44	29.383	41. / 40.	N.E	8	45.6	40.1	0. r
9	40.3	43.4	29.677	40. / 37.	N.E	3	44.3	37.5	0, r
10	38,	42,	29.787	38. / 35.7	N.NE	2	48,	37.3	½ b. r
11	40.2	44,	29.750	39.5 / 37.5	N.N.E	1	48.3	36	½ b. r
12	33.4	42.8	29.291	32.7 / 32.	WbS	4	49	31.5	½ b. r aurora N.W
13	36.4	42.1	29.033	35.6 / 33.	NWbN	1	46.5	33,	½ b. r
14	39,	42,	29.478	38.8 / 37.6	N.E	6	44.5	36	⅓ b. r
☉ 15	40.6	44,	29.771	40. / 37.3	NbE	3	48	33.5	0. r
16	36,	42.2	29.735	34.7 / 30.4	N.W	4	50.5	29.1	½ b. r aurora at N.W
17	31.2	38,	29.882	30.5 / 31.3	N.WbN	4	40	27	½ b. r (wet lightn) Do. Do.
18	35,	40.2	29.155	34. / 33.4	NWbW	6	40	33	0. r
19	34.2	39.8	29.680	33.6 / 30.7	N	3	43.5	30,5	½ b. r
20	36.8	40.6	29.690	36.4 / 35.8	SE	2	42,	36,	0. r
21	41	42,	29.684	40.4 / 40.2	SbW	4	50,	40.2	½ b. r
☉ 22	43.1	43.4	29.437	43.2 / 43.	SbW	2	52	41.5	0. m
23	41,	45.4	29.562	40.3 / 39.3	WbN	2	53.	38.5	½ b. r
24	44.5	45.	29.495	44. / 43.	WbS	4	51.4	39.	½ b. r
25	42,	46.2	29.484	41.7 / 40.	S	3	55,	38.	½ b. r
26	42.2	47,	29.500	43. / 41.5	SbW	5	65,	40.	½ b. r
27	40,	45,	29.217	40. / 40.	S.S.W	3	52.	38.	½ b. r
28	42.8	47.5	29.777	42.4 / 42.	S.S.W	3	55.6	40.	½ b. r
☉ 29	51,	50,	29.948	51. / 47.8	SbE	6	59.	47.	½ b. r
30	48.3	51.5	30.050	48.2 / 45.9	S.E	5	59,	46.	¼ b. m cirro moving from S
	40.41	44.03	29.497				50.68	37.49	

1849	Morning 22 hours			wind			Rain		
May	E	A	Bar	Hygr	Direct	Force	Square	Round	
♂ 1	57	53.2	29.910	57 / 49	NE b N	2	— —	—	b. cirrocumulus. v Strates
2	56.1	54.5	29.860	56.1 / 52.9	N b E	2	— —	— —	b. Cum. haze. v
3	58.	53.5	29.820	58.2 / 51.4	N.E	3	— — —	— — —	b. m
4	57	56	29.810	57 / 52	E b N	3	— —	—	b. cum strat. v
5	47.5	52	29.860	47 / 43	NE b E	4	—	—	b. cumulus. v
☉ 6	45.9	48.1	29.971	45.9 / 40.8	NE b E	6	—	—	oh sq:
7	49.8	50.1	30.097	50.2 / 45.3	NE b E	3	— —	— —	b cumulus v
8	53 —	49.5	29 937	52 6 / 46 —	NW	3	—	—	b cumulus - stratus v
9	54 1	50	29.790	54.4 / 48.8	E	1	—	— =	b cumulus & Cu strates. v
10	45.5	48.5	29.842	45.1 / 42.5	E b N	1	—	—	o. r. m
11	52.5	49	29.944	52.2 / 51.1	ESE	3	—	—	o. m
12	59.6	52.9	29.684	59.4 / 56.0	SSW	2	0.052	0.068	o. v
☉ 13	56	54	29.382	56.3 / 53.2	NE	1	0.530	0.320	0. v . The round gage lost the hail .530
14	56.	53,	29.354	55.3 / 50.8	W	1	down	0.029	0. v The pipe of square gage repaired
15	55.7	53.5	29.028	56.4 / 55.	S	2	do	0.142	0. v
16	61.0	56.5	28.958	59.4 / 56.9	SW b S	4	0.353	0.378	0. v
17	52.7	54	29.377	52 / 49.8	NW b W	3	0.325	0.296	0. v. The rain what in large drops which probably explains Round
18	56	53	29.785	54.6 / 51.2	SE b E	2	0.002	0.002	0. v
19	55.1	53.5	29.405	54.3 / 53.8	SE b S	2	0.279	0.306	0. v. v
☉ 20	56.9	54	29.568	57.2 / 50.2	S b E	5	0.255	0.266	b. cum v
21	58.7	54.5	29.320	58.2 / 51	SW b S	6	0.200	0.303 .05	b. c. q. r. v ; a sudden squall dispersed the haze
22	56.8	54	29.798	57.9 / 53.1	WSW	4	0.150	0.287	b. c. q. v
23	54.9	54.5	29.783	55.1 / 51.8	SSE	5	0.005	0.014	o. v. q
24	57.5	53.5	29.710	56.2 / 52.3	SW b S	3	0.111	0.157	0. v
25	57	54	29.682	57.3 / 52.3	SW b S	3	0.028	0.077	b. cum and strat. v
26	55.5	53.2	29.898	57 / 50.5	SW b W	5	0.007	0.007	b. cum. v
☉ 27	56.9	55.2	30.148	56.1 / 49.2	SW b S	2	0.001	0.002	b. cum. v
28	57	56	30.000	57 / 53	SSW	3	0.003	0.002	o. v
29	55.5	55.9	30.014	55.2 / 48.7	W b S	2	0.048	0.098	b v cum
30	55.9	56.2	29.687	55.5 / 52.9	S b E W	4	0.097	0.080	0. v square mark
31	56 8	55	29.831	56.7 / 49.5	SW b W	6	0.080	0.150	b. cum. q. v
	55.16	53.25	29.685				2.523	3.004	
									3.214

Northumberland Canal

1849	Evening 10 hours				Wind		Ther		
May	E	A.	Bar	Hygr	Direct	Force	Max	Min	
					NE b N.				
☾ 1	49.2	54	29.961	50.2 / 26.8	SW b W	1	62	41.2	6/10. v
2	50.1	54.	29.884	59 / 47	NE	1	60.8	45.8	4/2 b cirrocumulus. v
3	50,5	54.7	29.856	49.3 / 46.1	NNE	2	63.	42.5	b. cu hor. v
4	52.5	56	29.812	52 / 49.9	NE ÷ N	1	66.1	46 8	6/10 9. v
5	47.2	55	29. 832	46.9 / 43.1	E b N	L	61.	39	4/3 b. cirrocumulus. v
⊙ 6	44	51.2	29.898	43.2 / 39.8	E ÷ N	6	52.6	38	6. cloud cu hor. v
7	41.8	50.3	30.032	41.6 / 40	NE	1	52. 8	32. 9	6/10 m
8	41.4	50. 8	30.036	40.8 / 38.7	N.N.E	1	54. 2	37.8	6/10 m
9	45.3	52	29.858	44.8 / 43	N E	1	58. 8	40	6 cu m
10	40.2	50	29.766	39.8 / 38.0	SE ÷ E	1	55.5	38,9	6/10. v
11	43.5	50	29.932	44.7 / 41.2	SE	2	55	39.2	6/2. Cumulostrat. v
12	48,8	50.4	29.712	45.6 / 41.8	S b E	8	60.1	48	0. r. v
⊙ 13	51.2	53 1	29.516	51.2 / 49.2	SE ÷ E	5	65	49	0. v At 5" mod. thunder and hail and rain
14	50. 2	54.	29. 339	50.2 / 49.8	SW b W	2	60.5	49	0. m
15	49, 2	54.5	29. 228	49. / 48.8	S. E	1	93.5	48.3	6/3. v
16	53.2	55.2	28.973	53.1 / 52.0	SE b S	4	63. 8	57.5	0. v
17	52 .1	56	29.094	51.7 / 47.7	NW b W	1	65.5	49.5	0. v
18	48. 0	53.6	29,727	47.3 / 45.5	NW b W	3	56	44.5	0. v
19	48. 8	53.5	29.600	48.4 / 47.7	ESE	6	58.2	48.5	0. r. v Halo round ⊙ at 3"
⊙ 20	51. 2	54	29.392	51.2 / 51.0	S E	0.	59	50.2	0. d. v
21	51	54.	29.366	51 / 49	SSE	8	62	48.5	0. r. q. v
✕ 22	51.5	54	29.384	51.4 / 49.8	SW	6	59.9	50	0. q. v
23	56	56	29.924	55.8 / 52.0	S	4	64.7	51	0. v
24	52.1	53.5	29.640	53.2 / 51.1	S b W	6	58	46.5	0. v
25	51	54	29.550	50.8 / 49.1	SSW	8	61.2	48.9	0. q. d. v
26	48	55.1	29.804	48 / 46.4	SSW	2	62.5	45,0	6/10. v Spots on ⊙
⊙ 27	50.2	56	30.036	50 / 49	SW b S	1	64	45,9	6/. cum. v
28	51.5	57	30.094	51.5 / 48.5	SSW	3	65	49	6/8. strat. v
29	55.6	56 8	29.898	55.8 / 54.2	SSW	5	61.3	47	6 m
30	52.6	57. 8	29 907	52. 6 / 47	S.	4	64 2	50.8	Spots on ⊙
31	51. 9	57	29. 658	51.6 / 48.2	SWSW	5	61. 5	46,0	4/. cumulostrat. v
	49.02	53.99	29.700				60.57	45.46	

1849		Morning 22 hours			Wind		Rain		
June	E	A	Bar	Hygr	Direct	Force	Square	Globe	
☿ 1	58,	56	29.916	58.6 / 52.3	SSW	5	— — —	— — — —	b. v
2	61.4	56 8	30 051	61. 8 / 54. 6	SW	6	— —	— — —	
⊙ 3	62. 5	56_	29.935	62. 1 / 58 —	S6W	5	— —	— — —	b Cum: Strat. v
4	58	60.2	29.856	57.6 / 52.7	NNW	0	— —	— — —	4 b. cum. v
5	57.9	55.8	30.052	56.2 / 49.7	W6S	3	— —	— — —	1 b. cum. v
6	60	58	30.084	59.2 / 51.0	WSW	1	— —	— — —	b. cum. v
7	58,	56	29.933	57.3 / 53,	NbE	2	— — —	— — — —	b. cum. v
8	59.9	57-	29 835	59.9 / 54.1	NE	3	— —	— —	4 cum haze
9	50 -	54.—	29 765	49.3 / 42	S6E	6	— —	— —	b. cum v
⊙ 10	52.8	55 2	29.820	52.6 / 45.1	N6E	2	— — —	— — —	b. cum. v
11	50. 8	54.7	29.804	50.8 / 48.4	N	1	0.087	0.088	0. v
12	54,	53,	29.985	54. 3 / 47. 3	N.W	2	— — —	— — —	b. cum, v
13	59. 2	55. 6	29.936	59.1 / 51.7	S	5	— — —	— — —	0. v.
14	61. 5	56. 5	29.820	60. 8 / 53. 4	N.E6E	1	— — —	— — —	b. cum m
15	56. 9	58. 8	29.830	57. 4 / 51. 3	N6W	1	— — —	— — —	4 b. cum. stret. v
16	57. 8	54. 6	29.910	57. 6 / 50. 3	N. W	1	0.064	0.061	1 b. v. cum bar 29.910 { calm while reading
⊙ 17	60. 2	56. 9	29.846	59. 5 / 53.	SW6W	3	— — —	— — —	2 0. v
18	*54. 5	58. 0	29.688	54. 3 / 51. 4	SW6W	3	0. 279	0.363	0. v. * 18th Evening 10 hours
19	57. 0	54. 2	29.934	56. 6 / 50. 6	S.W	5	— —	— — —	b. v
20	57. 8	56. 2	29, 914	56. / 53. 8	W.6N	3	0. 005	0.035	1 b. v
21	558	56	29. 912	55. 2 / 53. 8	SW6S	3	0.038	0.051	0. m. v
22	59.8	59	29.760	60.1 / 51.8	W	5	0.020	0.058	b. cum. v
23	60.1	58	29.776	59 / 52.9	W6N	1	— —	— —	b. cum. v
⊙ 24	62, 4	60 8	29.656	62.8 / 59	S6W	3	0.015	0.016	0. v
25	57	585	29.760	56.9 / 54.7	SW	3	0.083	0.096	0 d. v
26	59.9	58	29.787	60.1 / 57.5	W	5	0.002	0.004	b. cum v strat. v
27	55, 1	582	29. 924	54.3 / 51.3	N6E	4	0.016	0.021	1 0. v
28	61.5	58	29. 848	61.5 / 58.7	WSW	1	0.001	0.003	0. g. d. m
29	59.1	58	30.024	59.2 / 54.8	N	2	0.070	0.074	b. cum. v
30	61.2	60	29.831	61.7 / 58.8	SW6S	5	— —	— —	0. d. v
	57.98	56.96	29.868				0.671	0.870	

Instrument Closet

1849		Evening 10 hours			Wind		Ther		
June	E	A	Bar	Hygr	Dirn	Force	Max	Min	
☿ 1	53,	57,	29.892	53. / 51. / 50.7 / 47.	SSW	4	63.3	49.7	b_2.v cumulous
2	51	58.1	30.036		SbW	3	65	47	b. v Hygr 50.7 / 47.8
⊙ 3	56.9	59.8	30.02.1	54.2 / 49.4	SbWW	1	68 -	50	b_8. v
4	55 9	61.5	29.856	56.5 / 52.5	SW	2	69.2	51.3	b_2. Cum. v
5	49.8	59	29.934	48.6 / 46.3	NbW	0	63.5	49.2	b. Cum. v
6	49	58.2	30.110	48.2 / 45.8	ENE	4	66	44	b_6. v
7	50,	60.2	30.030	50. / 47.3	NbE	1	68.5	44	b_{10}. v
8	53 4	59.8	29.878	53.5 / 50.8	NbE	1	64.7	45.5	b_9 cum strat v
9	46.5	57.	29.722	46. / 43.6	NbW	0	63.5	44.7	b_9 Cum. v
⊙ 10	45.3	56.	29.821	44.7 / 41.6	NbW	1	59	42	b_8 v Cirro strat
11	47.9	55.9	29.818	47.3 / 43.9	WNW	2	58	46,8	b_9 v
12	44.3	54.2	29.891	43.5 / 40.3	NNW	0	57.5	40	b. v Cum, in N.
13	48	54.5	30.012	47.5	NNE	2	60.	46.5	b_{25} v
14	50.9	56.3	29,854	47.8 / 50.7	S.E	1	63,	50,	b. v Hygr 50.7 / 47.8 dry wet
15	50.6	58.5	29,826	50.4 / 48.3	N.W	0	67.6	48.5	b. v.
16	44.9	55. 9	29.816	44.2 / 41.5	N.W	1	60.	41.5	b_2. v
⊙ 17	53.2	57.7	29.905	53.2 / 50.3	WbS	1	64.	51.	b_9 v
18	* 53.5	57.4	29,500	55.9 / 54.7	NbW	5	64.5	52.7	b. v * 18.. h Morning 22 hours
19	45.8	56.1	29.885	45.0 / 43.2	NW	1	59.	43	b_1
20	54.3	57.0	29.832	55.6 / 54.7	SW.	4	61	52	b_9 v E. 55. 3
21	52.1	57	30.020	52.2 / 49.5	W÷N	1	62	50	o. v
22	56.9	58	29.767	57.1 / 56.0	SW	5	65	52	o. v
23	50	58	29.772	49.8 / 47.7	SWbW	3	64.2	47.2	b. c. v
⊙ 24	555	60 5	29.728	55.7 / 51.3	ENE	2	69	54.2	b_9 o. v
25	558	60	29.710	55.5 / 53.3	WbS	2	67	54.2	o. v
26	552	59	29.784	55.5 / 53.2	SWbS	4	63.8	51.2	b. cum strat. v
27	53.7	58	29.820	53.7 / 50.7	WbS	4	63	51.2	b. d. v
28	501	588	29.944	49.5 / 47.2	NbW	1	63	50	o. v.
29	52.3	58	29.856	52.3 / 51.1	N	3	65	47	o. v
30	54	60	30.020	54.0 / 50.5	SSW	4	70.8	53	b_{25}. Cum. v
	52.06	57.93	29.876				63.93	48.31	

July	Thermy 22h E	A	Bar	Hyg	Wind Dir	Force	Rain Sqm	Rain Rom	
1	59	59	29.860	59 / 54	W	5	0.077	0.108	0. v
2	60	58.2	29.300	60.2 / 54.7	WbS	6	0.228	0.383	6/06. Cum. strat. numb. v
3	54.2	58.5	29.520	54.2 / 52.1	NW	4	0.030	0.032	6 nimbus strat cum strat. v
4	53.1	57.5	29.741	53.1 / 49.8	NW	4	0.158	0.150	0. v. v
5	62.9	60.2	29.625	63 / 60.4	S	7	0.041	0.060	0. v
6	63	61.8	29.580	62.9 / 62.6	SW	5	0.674	0.052	0. v. m
7	63.1	61	29.820	63.1 / 58.2	SW	5	0.301	0.335	6/05. Cum cumstrat 4. v
8	61.9	59.	30 135	61.8 / 55.9	SW	4	—	—	6/9 v. cum
9	64.2	62	30.228	64.3 / 58.5	W÷S	3	—	—	
10	67.6	63	30.218	67.6 / 60.9	SbW	2	—	—	6/9. cum. v
11	69.4	63.2	30.228	69.6 / 64.0	ENE	3	—	—	6/10. v
12	64.2	65.2	30.172	64.2 / 59.2	ENE	3	—	—	6/95. cum. v
13	68.2	65.5	30.124	68.2 / 63.2	NW	2	—	—	6/9. cum. v
14	67	65.2	30.060	67.2 / 61.2	NE	2	—	—	6/95. trace of Cirrostratus. v
15	68.9	65.2	29.924	68.9 / 62.1	SSW	3	—	—	0. h. v
16	62.5	66	29.705	62.9 / 54.0	NWbW	4	0.085	0.126	6/. Cumstrat. v
17	57.8	62	29.354	57.2 / 54.1	WbS	4	0.051	0.047	6/01. Cum Cumstrat. v
18	57 8	61	29.348	50.5	WbN	5	0.148	0.145	0. nimbus. v. v
19	54.1	58	29.521	53.9 / 52.7	NW	3	0.762	0.661	0. v. m
20	58.5	59.2	29.776	58.1 / 51.6	NW	1	0.001	—	6/. c. v
21	62.5	62	29.700	62.5 / 59.2	SSW	6	0.014	0.020	0. v
⊙ 22	59.4	59.2	29.438	59.0 / 52.4	SWbS	4	0.096	0.155	0. v
23	58.2	58.1	29.294	58.7 / 53.5	NW	1	0.025	0.027	6/. v. cum. strat
24	60.7	57	29.302	60.4 / 52.2	NW	4	0.006	0.010	6/2. Cum and Cumstrat. v
25	58.2	58.6	29.376	57.5 / 55.2	WSW	2	0.102	0.130	6/2. cum. v
26	59.8	58.4	29 765	59.8 / 55.2	SbW	2	0.074	0.065	0 cum strat. v
27	58	58.1	29 581	58.7 / 56.4	S	6	0.001	0.002	6/ stratitus. v
28	60	57.7	29 507	60.2 / 53.4	SbW	6	0.165	0.183	6 cum v. v
29	60.5	57.6	29 359	60.4 / 53.5	SWbW	6	0.158	0.165	3/6 Cum strat - stratb v
30	59.1	58.2	29 679	58.9 / 54.4	W	2	0.115	0.121	3/6 cum cirro strat cum strat
31	62.4	59.9	30.004	62.9 / 55.5	WNW	2	0.012	—	6/ Cum strat. v
	61.01	60.47	29.719				3.324	3.977	

1849	Evening 10				Wind		Max	Min	
July	E	A	Bar	Hygr	Dir	Force			
⊙ 1	54	59	29.812	53.5 / 50.2	WbN	6	64	57	o.q.r
2	56.3	57.8	29.820	56.7 / 55.3	SSW	8	63 5	53,5	o.q.r
3	54	58.5	29.456	53.9 / 50.9	W	5	63.2	50	o.q.r
4	505	58.2	29.620	50.3 / 28.5	WNW	1	62	475	b. c. r
5	551	58.2	29.720	55.2 / 50.2	S½W	4	63	52.5	o.r
6	61	61.2	29.620	61.2 / 60.2	S	9	69	60	o.q.r.r
7	57.1	61.5	29.642	57.2 / 55.9	SSW	4	71.8	56	b½. cum: r
⊙ 8	53.2	61.2	29.014	53.2 / 51.0	WSW	4	68.5	51.8	b. cum cum b. cum. strat. r
9	57.1	60	30.200	57.2 / 54.9	SW	2	66	55	o.r
10	60.2	63.2	30.230	61.1 / 59.1	NW	0	73.6	55.2	o.r
11	61	65_	30.238	61.9 / 59.2	SSW	2	77	55	b/10 .r
12	62.2	67.2	30.204	62.5 / 59.2	NNE	2	75.2	56	b/10 .r but bank at horizon Rain very well defined but faint
13	58.5	65.1	30.142	58.6 / 57.1	N.W	0	72	54	b/10 m cc cc — —
14	59 2	64.8	30.064	59.4 / 57.5	W.S.W	2	75	54.5	b/95 . one speck of cum . r
⊙ 15	58.—	64.2	30.040	58.3 / 56.1	WbS	1	74.6	54	b/10 haze
16	59.9	67	29.680	60 / 59	SWbS	4	73.5	56	o.r.r
17	55.1	62	29.600	55.0 / 51.5	SW	2	61	52	b. c. r
18	52.	62,	29,401	57.7 / 50.1	W	3	63.8	50.1	b/05 r Cum, Strat
19	51.2	58,5	29.364	wet / 50.6	NW	1	58	49	2 b/05 c. r Heavy thunder from 8h to 9h.
20	53	58	29,668	52.7 / 50.0	NWbW	1	62.8	50,5	o.r
21	56,1	60	29.777	56.2 / 53.9	SW	4	65.2	56	o.r
⊙ 22	58	58.5	29.406	58.2 / 56.5	SbW	8	67	52	o.r
23	50.1	58	29.372	49.5 / 49.0	SSW	0	64.2	50	b3. c. r
24	50.2	59	29 297	50.1 / 49.3	WbS	2	66.5	47	b/8 . r cum strat
25	55.2	59.5	29.336	55.5 / 53.8	WbS	3	66.2	53,5	o.g.r
26	54.2	59.8	29.601	54.1 / 52.9	NW	1	64.8	51.1	o r cum strat.
27	59 2	60 —	29.804	58.9 / 54.1	WSW	2	64.5	54—	b/1 m. cum
28	52.6	58.5	29.572	52.5 / 50.6	SW	5	64.5	51.8	b/9 stratus r
⊙ 29	51 8	57.5	29 409	51.5 / 50.4	SWbS	2	63.5	51.2	b/6 r stratus cum cumostrat. aurora
30	52.8	59.—	29.467	52.3 / 50.8	SWbW	5	62.8	52.2	b/4 r. str cirro strat cum
31	52.2	59.5	29.882	52.1 / 50.8	WbS	4	65.1	48.2	b/7 . stratus . r halo round ☽
	55.51	60.70	29.715				66.83	52.60	

1849	Morning 22				Wind		Rain		
August	E	A	Baro	Hygro	Dir	Force	Sqll:	Rain	
☿ 1	63.4	61	29.944	63.9 / 61.2	NW	2	0.054	0.058	½ Cum Cumstrat. v
2	56.4	58.2	29.945	56.2 / 52.2	N6E	3	0.064	0.078	½ Cum. v
3	58.1	57.5	29.856	58.1 / 52.1	NNW	1	—	—	½ Cum. v
4	61 –	57.2	29 787	60.7 / 50.4	SE6E	2	—	—	½ Cum strat cirr strat h
☉ 5	61.8	56	29.884	61.8 / 50.1	SW	2	—	—	½ Cum. v
6	59	60	29.725	58.9 / 58	SE	6	0.597	0.616	o. r. m. v
7	67.3	65	29.680	67.1 / 62.7	S6E	3	0.122	0.127	o. v
8	66.5	63	29.581	66.7 / 63.1	SE	0	0.150	0.155	o. v
9	61.5	61	29.599	61.3 / 59.3	SW	1	—	—	o. m. v
10	67.9	65	29.380	65.4 / 62.1	S	8 ~~7~~	0.355	0.360	½ Cumstrat. v
11	63.2	63	29.164	63.2 / 57.1	S	9	0.099	0.141	½ Cumstrat v
12	56.1	595	29.082	59.9 / 55.5	SW	6	0.160	0.336	o. r. m
13	56	57	29.414	55.9 / 52.5	WSW	5	0.117	0.230	o. v
14	60.1	60.2	29.494	60.8 / 55.1	SWbW	6	0.114	0.117	½ Cum Cumstrat. v
15	56.8	58	29.435	54.5 / 51.0	SWbW	3	0.272	0.309	½ Cum Cumstrat. v
16	55.6	58	29.766	55.6 / 50.1	NWbW	2	0.206	0.164	o. r. v
17	56.8	55.5	29.960	56.8 / 52.4	WbN	4	0.057	0.056	o. v
18	60.9	57.2	30.078	61.4 / 57.2	WNW	2	—	—	½ Cumstrat. v
19	62	59.2	30.128	62.1 / 57.5	SW	4	—	—	o. Cum & Cumstrat. v
20	64	61	30.124	64.5 / 60.2	SW½W	4	—	—	o. v
21	62.2	61	29.931	62.2 / 57.7	SWbW	4	0.011	0.029	½ Cum Cumstrat. v
22	58.5	60.2	30.055	58.5 / 52.0	NWbW	2	0.001	0.001	½ Cum Cumstrat. v
23	58.2	58	30.016	58.2 / 52.9	SbW	2	—	—	o. h. v
24	63.0	60.2	29.966	61.0 / 60.0	WNW	3	0.010	0.013	½ Cumstrat. v
25	61.2	60.8	29.899	62.1 / 58.7	W.N.W	4	0.001	0.010	½ cumstat. v. wind very unsteady
26	56,5	58.2	29,870	56.6 / 54.7	WNW	2	—	—	o. v
27	61. 1	60 –	29 663	61. 2 / 59. 5	SSW	4	0. 027	0.036	o rain m
28	62.9	61	29.540	62.9 / 59.8	WNW	1	0.002	0.006	o. v
29	63. 9	61. 6	29.703	63.8 / 60 –	WSW	2	0.048	0049	½ m cum. strat. cirr .049
30	59. 6	59 .2	29. 715	58.9 / 54. 6	WbW	1	0.001	—	½ v cum strat.
31	63. 2	60.2	29.594	63.7 / 60.3	NEbN	2	—	—	o. h. v
	60.12	59.77	29.761				2.468	2.891	

Instrument used

1849 August		Evening 10 E	A	Baro =	Hygro:	Wind Dir:	Force	Max	Min	
☿	1	55 —	61 —	30.042	55 — 3	NNE	2	67	54.6	0. v
	2	53	60 —	29.964	52.2 / 51.8	N 6 W	1	66.2	47	0. v
	3	48 9	56 —	29.928	48.2 / 47.3	N	3	61.5	44.5	6/10. v
	4	53.5	59.8	29.816	58.5 / 50.2	E	2	64.2	46.4	0. v
⊙	5	50.8	58.8	29 847	50.4 / 47.4	SE 6 S	1	66.5	44.5	6/10. v
	6	57 —	61	29.860	57 / 53.8	E	1	67.8	54.4	0. g. v Halo round ⊙
	7	61 —	62.5	29.670	61 / 60.9	S S E	4	68	59	6/2. Cumstrat. Stratus. v
	8	59.5	63 —	29.618	59.4 / 58.5	SE 6 E	2	72	58	6/3. cumstrat. v Heavy thunder at 8
	9	57 5	62.2	29.550	57.5 / 56.9	S W	1	72	56.1	6/5. c. h. v Sheet lightning in the S.W from 8 to 9½
	10	61.5	63.5	29.584	61.9 / 59.1	S 6 E	4	71.5	58	0. g. v
	11	59	63.8	29.370	59.3 / 58.3	S S E	6	72.5	58	6/10. v
	12	57.9	61	29.092	58.2 / 54.9	S 6 W	10	66.5	56	0. g.
	13	54.2	58	29.257	54.2 / 51.8	S W 6 W	6	66.2	57.2	6/1. c. g. v
	14	53,5	59	29.460	53 / 52.5	S W	5	65	50.2	0. g. v
	15	51.9	57	29.461	51.2 / 50.5	S	4	61.5	49.5	6/1. g
	16	51	57	29.632	50.5 / 48.8	W 6 S	3	60.5	49	6/3. Cumstrat. v
	17	47.8	56.5	29.935	46.9 / 45.9	N W 6 W	1	60	47	6/95 a train of v Stratus in S W. v
	18	53.2	57	30.018	53.2 / 51.2	W 6 N	2	62.5	53.2	0. g.
⊙	19	56 5	58	30.134	56.5 / 54.4	S W	5	64	55.2	0. g.
	20	59.2	59.2	30.146	59.5 / 58.2	S W 6 S	5	65.2	58.5	0. g. d
	21	57.2	60	30.020	57.4 / 54.0	S S W	4	67.1	56.1	6/05. c. v
	22	54.2	59	30.000	54.2 / 51.9	S W 6 W	3	65.5	52.0	0. g. v
	23	50	50	30.072	49.7 / 47.9	W	2	63.8	48	6/95. v Stratus in N W hor
	24	56.5	58	29.954	56.8 / 55.9	W 6 S	2	64	56	0. g.
	25	58.2	60	29.960	58.4 / 57.2	W	4	66.2	57.6	0. d. g. v
⊙	26	54 2	59	29.915	54.2 / 50.0	W	5	65.3	53	0. v
	27	50 2	58	29.815	49.5 / 48.1	S W	3	62 —	49.8	6/5. Cirrocum. v
	28	58. 6	59.7	29.750	58.7 / 57.3	W	3	65.2	59	0 v
	29	60.3	61.2	29.800	60.5 / 59.9	W 6 S	1	68 .2	58.1	0. d. v
	30	58	61.3	29.660	58.1 / 56.7	S W 6 S	4	68. 1	57. 8	6/05. Cumstrat: v
	31	57 3	60.8	29.662	57.3 / 54.5	S S E	5	66.1	56.8	0. v
		55.38	59.66	29.774				65.88	53.18	

1849	Morning 22				Wind		Rain		
Sept	E	A	Bar:	Hyg:	Dir	Force	Squ	R	
☂ 1	64.2	62.2	29.368	64.4 / 61.1	S ½ E	4	0.581	0.601	b½ Cum Strat / b½ Cir. Strat } v. Thunder in night frequent but distant
⊙ 2	64.3	63	29.732	63.6 / 60.1	E ½ N	5	0.096	0.109	b⅔ Cum / Cum. Strat. v
3	62.2	60	30.072	62.9 / 60.7	N b E	3	0.001	0.007	b⅔ cumstrat. m. heavy fog at 19h
4	63.1	61.5	30.146	63.6 / 60.2	N	2	0.004	0.011	b. cum. m. I think it was dew not rain
5	60.7	61.9	30.120	61.2 / 58.4	N ½ E	2	0.001	0.000	o. v
6	55.2	62.5	30.190	55 / 49.8	ENE	3	0.001	——	b⅛ cum. v
7	58	60	30.070	58 / 52.2	S S W	1	——	——	b⅛ Cum. v
8	58.1	59.2	29.300	57.8 / 55 —	SW ½ W	4	0.018	0.034	b / cum Cumstrat. v
⊙ 9	56.4	59.2	29.222	58.2 / 54.0	N b W	1	0.120	0.134	o. r. m
10	53,	56,	28.977	52.5 / 51.	WNW	2	0.218	0.173	o. r. v } calm while raining
11	54.2	54.4	28.940	54.3 / 53.4	NWbW	3	0.217	0.187	b. r. v } Globe leaked — repaired
12	55.2	55.3	29.564	55.2 / 50.2	NWbW	6	0.013	——	o. v
13	58.2	55.8	29.850	58.2 / 53.	S.W	5	——	——	o. v
14	61,	57,	29.765	61.6 / 57.4	S b W	7	——	——	o. v
15	55,	55.2	30.060	53.3 / 49.7	N.W	2	0.551	0.524	b. v
⊙ 16	55.5	52.7	30.350	55.5 / 50.	N b W	3	——	——	b½ c. v
17	55,	53.7	30.367	54.8 / 51.4	N.W	2	——	——	o. v.
18	56,	52,	30.437	56.2 / 52.2	N.W	2	——	——	b½ c. v
19	56.6	54.5	30.383	56.7 / 54.9	N	3	——	——	o. v
20	56.3	55,	30.300	56.5 / 52.2	N.E	6	——	——	b⅔ c. v
21	59,	56	30.036	59.4 / 56.	N.E	7	0.045	0.075	o. v
22	57,	55.4	29.930	57.3 / 52.3	N.E	4	——	——	b½ c. v
☂ 23	57.0	55,	29.809	57.2 / 54.7	N.E b N	2	——	——	o. m,
24	57.7	55.5	29.726	57.7 / 55.	E	3	——	——	b. c. v
25	57,	55.2	29.700	57. / 52.7	E	7	——	——	b½ c. v
26	58.7	57.1	29.600	58.7 / 53.5	E	10	——	——	o m
27	59,	56.5	29.616	58.7 / 55.6	S.W	3	0.357	0.531	o. v
28	61.3	57.1	29.380	61.3 / 58.1	S.E	3	0.045	0.070	o. v
☂ 29	50,	56.5	29.073	49.5 / 48.9	N.E	7	0.557	0.690	o. r
⊙ 30	49,	52.4	29.440	49. / 48.5	N.E	3	0.270	0.405	o, m
	57.46	56.92	29.791				3.095	3.554	

Instrument Stand

1849	Evening 10				Wind		Thermo		
September	E	A	Baro	Hygro	Dir	Force	Max	Min	
1	58.8	62	29.485	58.8 / 58.4	ESE	2	68.8	58.8	0. v
⊙ 2	58	62	29.608	58.9 / 58.9	NEbN	2	67.7	55.8	$\frac{4}{5}$. Cumulostratus. v
3	53.5	62	29.958	53.5 / 52.9	NNE	2	68.2	54,0	$\frac{6}{95}$. Cumulostr. v
4	57.3	63.3	30.170	57.5 / 57.2	N½W	2	70.2	55	$\frac{6}{10}$. v
5	54.8	63	30,144	54.8 / 53.9	NNE	2	67	54	0. m
6	58.8	63,5	30.155	55.8 / 54.2	NE	2	67.5	48.5	$\frac{6}{10}$. Cumulostrat. v
7	49.	58.6	30.167	48 - / 47 -	ENE	0	60	44	$\frac{6}{10}$. v
8	52	60	29.828	52.1 / 50.5	SW	3	64.2	54.1	$\frac{6}{10}$. m. v
⊙ 9	52	59.2	29.325	51.5 / 50.9	NbW	1	64.0	50	$\frac{4}{5}$. c. v Aurora in NW
10	50.6	58,	29.160	60. / 48.8	WbN	1	58	48	$\frac{6}{10}$. c. v slight Do. Do.
11	47,	55.2	28.912	46 ? / 46 ?	WbN	1	56.5	46	$\frac{6}{10}$. m
12	52.1	56,	29.140	52, / 50.4	NbW	5	58.4	50	0. r.
13	52,	55.4	29.760	51.7 / 49.3	S.W	7	59,	51.5	0. v
14	52.2	56,	29.863	54.2 / 52.2	S.W	3	61.6	53,	$\frac{6}{10}$. v
15	52.5	58,	29.800	52.2 / 52.2	N.W	2	67.5	46	0. v.
⊙ 16	46,	56,	30.261	45.4 / 44.5	N.W	2	60,	42	$\frac{10}{10}$. v
17	48.2	55,	30.375	47.7 / 45.9	N.W	1	60,	44.5	$\frac{2}{10}$. c. v
18	45.7	55,	30.400	45 ? / 44.6	W	2	60,	43.5	$\frac{7}{10}$. c. v Aurora in N.W
19	54,	55.6	30.470	54. ? / 52.3	N.W	1	61,	49,	0. v
20	55,	56,	30.370	55 ? / 54.5	NbE	4	63,	47,	0. v
21	52.7	57,	30.226	52.2 / 50.2	N.E	6	61.5	51.5	$\frac{9}{10}$. v
22	53,	56.2	29.996	53. ? / 50. ?	N.E	5	62,	47.8	$\frac{4}{10}$. c. v Cirro stratus
⊙ 23	48,	56,	29.900	47.4 / 47.	N.E	0	59.5	48,	$\frac{3}{10}$. c. m
24	52.5	57	29.730	52.3 / 50.8	EbN	5	61.5	48.5	$\frac{4}{10}$. c. v Stratus
25	48.3	56	29.740	48.3 / 47.6	NbE	4	60.7	47.6	$\frac{5}{10}$. c. m Do
26	54,	56	29.640	53.5 / 49.8	E	10	59	54.3	$\frac{3}{10}$. c. v clouds moving slowly from
27	54.9	57	29.629	54.8 / 54,	E	5	61.	53,	0. v the West.
28	52.7	57.	29.504	52.6 / 51.3	N.E	3	61.5	52,	0. v aurora. North, through the clouds
29	57.	58.	29.216	57. ? / 56. ?	EbN	3	64,	50	0. m
⊙ 30	45.5	53	29.260	45.3 / 43.5	EbN	3	51.	44,	0. v
	52.17	57.73	29.806				62.14	49.51	

1849	Morning 22			Wind			Rain		
October	E	A	Bar	Hyg	Dir	Force	Aqa:	Round	
D 1	46.6	48,	29.646	45.6 / 42.8	N.W	3	----	----	b.c.v
2	44.3	48.	29.167	44.3 / 42.	N.E	3	----	----	o.m
3	45,	46.5	29.219	44.2 / 40.	NbW	2	0.501	0.525	b.c.v
4	43.2	45.5	29.450	42.6 / 40.	S.W	4	----	----	b.c.v
5	41.7	44,	29.579	41. / 39.6	N	2	----	----	b.c.m cirro stratus
6	45.5	45.5	29.460	45. / 41.3	NE	6	----	----	b.c.v Squalls = 10; making tremendous
⊙ 7	45.8	45,	29.800	45.2 / 40.7	NbE	2	----	----	b.c.v noise in the trees. - -
8	45.4	44.2	29.874	44.8 / 42.4	SWbW	2	----	----	b.c.m
9	45,	44.5	29.704	44. / 42.	NbE	1	----	----	b.c.m cirro stratus
10	48	46,	29.484	45. / 43.7	EbN	3	0.016	0.041	o.m
11	46.3	46.5	29.688	45.8 / 40.6	NEbN	5	----	----	b.c.m
12	46,	45	29.903	46. / 42.	NEbN	4	----	----	b.c.m
13	44.5	43.5	30.132	44. / 40.7	N.W	0	----	----	b.c.m
⊙ 14	42,	43.4	30.140	41.7 / 40.	N	2	----	----	b.m
15	46.6	44.2	29.853	46.3 / 42.6	S.WbS	2	----	----	o.m
⊙ 16	52.7	49.5	29.323	52.7 / 50.5	S	6.	0.010	0.034	o.v
17	59,	54,	29.657	59.3 / 55.2	S	4	0.005	0.039	o.v
18	60.8	56.5	29.582	60.8 / 57.2	S	6	----	----	b.v
19	52.9	52.3	29.560	52.7 / 49.0	S.S.W	3	0.167	0.252	b.v
20	51.5	52,	29.489	51.2 / 48.5	S.W	4	0.082	0.149	b.v
⊙ 21	49.2	49.3	29.577	49.1 / 48.2	SE	6	0.109	0.134	o.r
22	52.3	51.5	29.803	52. / 50.	SWbS	2	0.089	0.195	o.m
23	49.5	50.3	29.748	49.1 / 49.	NEbN	3	1.121	1.190	o.r
24	57.4	53.5	29.582	57.4 / 55.8	SbW	3	0.298	0.376	o.v
25	50.8	50.5	29.500	50.5 / 48.	S.W	5	0.025	0.057	b.v
26	56,	53.2	29.630	55.3 / 54.4	S.W	4	0.110	0.180	o.r
27	52.6	53.2	30.262	52.2 / 50.6	W	2	0.008	0.025	b.v
⊙ 28	56.5	53.3	30.280	55.3 / 53.4	S.S.W	5	----	----	o.m
29	56.4	53.2	29.700	55.4 / 53.2	S	7	----	----	o,r
30	46.8	49.	29.335	46.3 / 43.7	S.S.W	5	0.015	0.079	b.m
31	49.5	49	29.219	49.2 / 48.5	N.E	4	0.952	1.114	o.r
	49.22	48.91	29.656				3.508	4.387	
								4.390	

1849	Evening 10				Wind		Thermo		
October	E	A	Bar	Hyg	Dir	Force	Max	Min	
☽ 1	40	51.3	29.597	39.1 / 38.1	S.WbS	2	50.5	36	b.c.m
2	38.3	49.	29.570	37.6 / 36.6	S.W	2	52.	38.	b.c.m Cirro Stratus & Halo round ☽
3	39.	47	29.107	38.1 / 37.8	NbW	2	45.	36.	o.m
4	36	46.5	29.356	35.2 / 34.4	N.W	3	49	35.	b.v. Aurora North & West
5	36.9	46.	29.512	36. / 35.2	S.S.W	2	50	33.	b.r.m
6	39.9	46	29.479	39.3 / 37.4	N.2bN	4	47	38.	b.c.m
○ 7	42.	46.2	29.629	41.6 / 38.2	NbW	6	48.5	35.	b.c.v
8	37.	46.3	29.890	36.5 / 35.7	SwbW	1	50.2	34.8	b.c.m
9	38.5	46.3	29.818	38 / 37.5	S.W	1	52.5	34.	b.c.m clouded from 0 to 9 hours
10	40.	47.	29.584	39.7 / 37	E	2	50.7	37.5	b.c.m cumulus
11	47	47.	29.540	46.6 / 42.	EbN	5	50.6	40.	o.m
12	39.2	47.	29.800	38.3 / 36.3	EbN	3	49.	35.5	b.m
13	36.	45	30.019	34.8 / 34.1	NbW	1	47.5	34.	b.m
○ 14	38.4	45.	30.176	38.2 / 36.	N.W	0.	48.5	32.5	o.m
15	37.8	45.	30.045	37 / 35.6	NbW	1	47.	36.	o.m clear tile 8 hours
16	47.7	47	29.600	47.5 / 44.3	SbE	4	53.	45.	o.v
17	56.	52.	29.384	56.7 / 54.7	S	10	59.5	51.5	o.v at 8 hours, in the Magnetic Meridian
18	56.1	54	29.684	56.3 / 52.4	S	8	61.5	54.5	b.v and about 6° 7. D toward the South
19	56	56.	29.300	56.4 / 55	S.bE	8	62.3	46.	o.r a reddish light appeared in the form
20	50.5	52.	29.396	50.5 / 49.2	S	8	56.	46	b.m of an ellipse its major axis to the
○ 21	43.3	51.	29.732	42.8 / 42.	SbW	2	55.5	41.5	b.v Magnetic Meridian, its light was
22	53.	53.5	29.536	53. / 51.2	S.W	10	57.5	49.	o.m something like the full ☽ covered with
23	46.8	51.	29.780	46.2 / 46.1	N.EbN	3	54.	46.	o.r a thin cloud, rays seemed to radi
24	49.	50.	29.665	49. / 48.8	SbW	8	58.	49	o.r =ate in the direction of the Minor
25	53.4	54.2	29.376	53.4 / 52.	S.W	6	60	46	o.v axis. — In about 15m it was
26	49.4	52.	29.550	49.2 / 48.4	SbW	1	57.	48.	o.m eclipsed by thick clouds
27	53.7	54.	29.888	53.7 / 52.6	S.W	6	60.	48	b.v
○ 28	49.	52.	30.384	48.7 / 47.5	S	4	56	46.5	b.v
29	50.5	53.	30.094	50.4 / 49.1	S	7	58.5	50,5	b.v
30	45.	49.	29.618	44.4 / 42.4	S.SW	5	56.	46.	b.v
31	45.4	49	29.080	45. / 44.7	N2bN	5	50	44	o.r
	44.52	49.37	29.652				53.32	41.69	

× Coinciding with

1849		Morning 22				Wind		Rain		
November	E	A	Bar	Hyg	Dir	Force	Sq:	R		
4	1	49.9	50.	29.466	49.9 / 49.1	WSW	3	0.053	0.068	0. m
	2	46.5	47	29.340	46.3 / 45.7	S	2	---	---	b. m
	3	47.6	47.5	28.870	47.4 / 46.	S.S.W	4	---	---	0. m
⊙	4	42,	44.2	28.765	41.4 / 40.	W	6	0.125	0.266	0. r
	5	40.	41.5	29.282	39.8 / 36.6	W	4	0.042	0.069	0. m
	6	36.8	40.4	29.530	36. / 35.7	N.W	1	0.322	0.342	0. r Snow
	7	54,	48.2	29.870	53 / 51.5	S.W	4	0.049	0.065	0. m
	8	55.	51.3	29.923	55. / 54.	S.S.W	5	0.003	0.019	0. m
	9	53.	51.2	29.809	52.8 / 51.2	S	7	0.035	0.115	0. m
	10	55.4	53,	29.890	65.5 / 54.8	S.W	3	0.035	0.140	0. m
⊙	11	52,	52.4	29.749	62.4 / 51.4	S.W	3	0.078	0.215	0. r
	12	45.7	49,	29.496	45.2 / 43.2	W	2	0.057	0.126	b. c. v
	13	42.3	46.	29.312	41.8 / 40.3	S.W	3	0.037	0.042	b. c. v
	14	41.5	45,	29.636	40.7 / 40.8	N.W	5	0.095	0.155	0. r
	15	42.5	43.2	30.051	43. / 40.	N.N.W	2	0.030	0.044	b. c. v
	16	46.7	45,	30.046	46.4 / 45.6	S.W	4	---	---	b. c. m
	17	52.3	49	29.816	52.4 / 50.2	SW6W	6	0.008	0.034	0. q. r
⊙	18	52	49	29.670	52 / 51.5	SW	4	0.086	0.123	0. m
	19	50.	49	29.816	50 / 47.5	SSE	5	0.019	0.024	0. v
	20	51	50	29.656	51 / 49.9	SSE	6	0.023	0.032	b. c. m. d a spot blue at Zenith
	21	45,5	48.9	29.638	45.2 / 44.2	W6S	2	0.090	0.111	b. Strates. m
	22	46.9	47	29.136	46.3 / 46.2	SW6W	3	0.081	0.182	0. r. m
	23	40	44	29.156	39.8 / 38.5	SW	4	0.018	0.031	b. Strat Cum Strat m
	24	38.4	41.2	29.246	38.2 / 37.5	SW6W	2	0.016	0.023	0. r
	25	39.5	41.9	29.749	38.6 / 36.	SW6W	1	0.004	0.006	b m
	26	42.8	42.3	29.966	42.6 / 39.2	SE6S	6	0.00½	0.001	b c v
	27	43.7	43.1	29.663	43.6 / 40.7	SE6S	6	—	—	0 v
	28	47.9	45—	29.358	47.6 / 43.7	SW6S	5	0.023	0.044	b. c. v
	29	44.6	44.3	29 557	44.6 / 43.5	SSW	4	0 607	0.318	b c m
	30	42.1	42—	29 729	41.5 / 41.3	S	5	0.065	0.116	0 r
—		42.92	46.39	29.580				1.504	2.726	

1849		Evening 10				Wind		Thermo		
November		E	A	Bar	Hyg	Dir	Force	Max	Min	
4	1	49.2	49.7	29.410	48.8 / 48.4	N.E	3	50.8	48,	O.r
	2	46.7	50,	29.482	46.3 / 45.2	W	2	53.5	38.5	O.m
	3	41.6	47.2	29.160	41.2 / 40.7	S.S.W	4	49.6	41,	b.m
⊙	4	37.8	46.2	28.667	37.3 / 36.4	S.W	6	49.3	36	O.r
	5	35.7	43,	29.078	35.3 / 34.7	S.W	4	44,	34	O.m
	6	33.5	40.2	29.650	32.7 / 32.	W.S.W	3	40.5	32	b.v / a similar appearance of
	7	52,	44.4	29.700	52.5 / 52.	S.W	4	55,	36.5	O.m / Aurora as on bte. 17th but
	8	53.5	50.2	29.850	53.4 / 52.1	S.W	8	56.5	53,	O.r more diffused; Coruscations
	9	53.5	51.2	29.876	53.6 / 52.6	S.S.W	7	57,	51,	O.m occasionally. — its
	10	55.8	53,	29.828	55.8 / 54.6	S	6	57	53	O.m altitude was about 40°
⊙	11	53,	53,	29.794	53 / 51.5	S b W	7	57	51.5	O.m
	12	48.3	51.	29.640	48. / 47.3	S.W	5	54	45.	O.m
	13	41.3	47.5	29.460	40.7 / 39.8	S.S.W	4	50	39	b.m aurora. N.W
	14	40.3	45,	29.407	39.5 / 38.2	W	4	45,	38	b.c.v rain at 9h 45m
	15	39.8	44	29.900	38.6 / 37.2	N.N.W	2	45	35.5	b.c.v
	16	42,	44.	30.095	41.6 / 39.8	W.S.W	2	47,	39.5	O.m
	17	46.8	46.1	29.862	46.7 / 46.6	S b W	10	53	45.6	O.d.
⊙	18	50.2	48.5	29.858	50.2 / 49.8	W	4	53.2	49.2	O.v
	19	52	49.5	29.852	52.0 / 51.8	S	3	...	...	O.d.
	20	50.2	49	29.734	50.0 / 48.8	S b E	7	52	49	O.d.
	21	50	50	29.620	50 / 49	SSE	7	53.2	45	O.g.d.
	22	43.4	47	29.450	43.4 / 41.7	S b E	6	48	41	O.v
	23	37.6	41.5	29.172	37.2 / 36.5	SSW	4	46.5	35	b/10.v
	24	37.2	43	29.136	36.5 / 36.1	SWbS	4	44.2	34	b/6.c.v
	25	37.8	42.5	29.500	37 / 36.5	WSW	5	44.6	34	b/8.c.v
	26	36.5	42—	29 885	36.2 / 35.4	NbE	1	42.6	35.2	b/9.c m
	27	42.4	42.7	29 832	42.3 / 39.7	S E	6	43.6	40.8	O.v
	28	42—	42.4	29 497	41.8 / 39.7	SEbE	6	48—	41.2	O.v. luminous clouds
	29	48.8	46.2	29 361	48.4 / 47.3	SSW	4	51.5	41.4	b/1.v.c
	30	38 2	43.3	29.470	37.6 / 37.1	SSW	3	47.5	36.1	b/10 m moonlight
		44.56	47.18	29.574				49.68	41.31	

Dec^r	Morning 22				Wind		Rain		
December	E	A	Bar	Hyg	Dir	Force	Squ:	Round	
1	50.3	43 9	29.255	49.5 / 49.8	S E.	4 5	0.098	0 185	o v r
2	43.9	45 —	29.429	43 6 / 42 —	E ℓ N	1 K5	0 274	0.348	o v g
3	34.[illegible]	39.8	29.513	32.8 / 31 5	N W	25	—	—	b_{05} c m ice in Anemon
4	33 3	37.	29 005	33.2 / 32.8	E N E	05	—	—	b_{3} o v
5	39.9	39 2	29,142	39 7 / 39 07	S ℓ W	5	0 220	0.266	o, m.
6	43.0	40.8	29 127	42.7 / 41 2	S S E	6	0.162	0.383	r
7	41.2	42,2	29,131	41.2 / 43.5	E	5	0.660	0.811	o. g. d. m
8	38.8	41.9	29 018	38.3 / 38.2	N N E	2	0,012	0.011	fog
9	40	42	30.021	39.7 / 39.1	S W ½ S	2	0.001	0.001	o. g. m
10	40	41	30.084	39.6 / 38.5	E ℓ N	5	0.008	0.013	b_{9} . Stratus . r
11	38.7	40.5	29.797	38.3 / 35 —	S E ℓ E	6	0.009	0.008	b_{9} c. v
12	37	39	29.481	36.5 / 34.3	S E ℓ E	6	—	0.007	o. v
13	42.8	42 —	29.579	42. 8 / 41. 9	S S W	4	0.267	0.447	o. v
14	45 2	44.2	29.574	45.1 / 44.1	S S W	5	0.022	0,032	o. r. m
15	47,4	45.8	29.519	47.2 / 46.1	S W b S	7	0.004	0.009	o. h. r
16	45.0	45	29.381	45.1 / 43.9	W S W	5	0.110	0.172	b_{1} cumstrat . r cumulus
17	44 2	45.8	29.257	44.1 / 43.8	N W ℓ W	2	0,265	0.333	o . g. m
18	40,2	42,1	30.112	40.2 / 37.5	3	W N ℓ W	0.026	0.050	b_{2} . cumstrat . r
19	37. 2	43 —	30.321	37.5 / 36.8	S W	S W 2	0.001	0.001	b_{6} m 15
20	27.8	39.2	30.467	27.8 / —	N N W	0	—	—	b_{95} fog cirrostrat
21	34.1	38.	30.608	33.1 / 31.5	N E	2	—	—	b_{05} . Cum . str . Ice on hygrometer
22	31.5	36.	30 623	30 8 / 29 7	S ℓ W	2	—	—	b_{05} fog
23	40 3	37.3	30. 441	39.7 / 34.6	N N E	3	0.023	0.038	b_{2} v cumulus
24	35.2	37.9	30.531	34.9 / 34.3	W ℓ N	3	—	—	b_{1} . cirrocum . or
25	40.9	39.8	30.071	40.4 / 39.3	W	4	0.010	0.016	o. r.
26	38.2	40.1	29.570	37.1 / 35.8	N N W	3	—	0.123	o. m. r Squangage open
27	27	34.5	29.585	27 / 25.2	N N W	5	Snow		b_{5} . cum . strat . r
28	31	34.1	29.708	30.9 / 27.8	N W	2	—	—	b_{9} . m . c . r
29	26 7	30.5	30.076	25.4 / 25.2	S S W	2	—	—	b_{10} . m
30	27 4	33.9	30.235	26.7 / 26.	S W	2	—	—	b_{10} . m
31	35	33.3	30.092	31.7 / 32.2	S W ½ W	1	—	—	b_{2} . Cirrostratus . or
	38.03	39.83	29.797				2.172	3.256	

Instrument Case

1849	Days on which Rain fell	Gallons on a English Square Mile		Weight in tons		Mean Bar.	Mean T.
January	24	91.229.794,		407.276,		29.573	40.07
Febry	18	36.292.144,		162.196,		29.940	43.43
March	18	21.468.388,		95.841,		29.848	43.86
April	21	30.269.993,		135.134,		29.625	42.91
May	20	43.486.877,		194.138,		29.684	52.09
June	12	12.594.402,		56.225,		29.851	55.02
July	21	57.572.341,		257.019,		29.696	58.26
Augt	20	41.851.053,		186.835,		29.735	57.75
Septr	15	51.448.855,		229.727,		29.778	54.81
Octr	15	63.507.633,		283.516,		29.656	46.57
Novr	26	39.462.459,		176.172,		29.587	43.74
Decr	20	47.134.911		210.424,		29.810	37.97
	230	536.318.850,		2.394.280			

1849	Evening 10				Wind		Thermo		
December	E	A	Bar	Hyg	Dir	Force	Max	Min	
☿ 1	37.5	43 –	29.681	37 / 36.6	S b W	2 19	50.5	36.1	b/8 m
☉ 2	45.3	45.2	29.147	45 / 45	S	47	50.8	42.4	o c m moonlight
3	35.9	42	29.625	35.2 / 33.9	N E	5	44.6	30 4	b/10 v
4	31.9	38.	29.271	30.8 / 29.8	N N W	0	34.8	28 2	o.v
5	39	39	28.866	38.5 / 37.8	S b W	6	41 5	31.2	o.g
6	40 2	40	29.372	39.5 / 37.5	S E	7	44 5	37 8	b/5 c.m.v
7	44.3	42.2	29.084	44.0 / 43.2	S E b E	7	45	42	g.g.v
8	42	42.5	29.448	41.8 / 41	N E		45.2	38.8	b/1 c.h.v
☉ 9	40.4	42,6	29.880	40.1 / 39.9	W N W	0	43 2	38.2	g.g.
10	34.2	40 8	30.082	33.3 / 33.2	N b E	2	41	33.5	g.m.f.
11	40 5	41.1	30.001	40 / 39.1	E N E	7	41.8	37.5	g.s.g
12	37.5	39	29.640	37.2 / 34.2	S E	6	39	35	o.g.g
13	45.9	42	29.228	45.3 / 45.0	S b W	8	48	35	o.g.r
14	48	45.2	29.408	48 / 44.5	W	9	49	41.1	b/05 c.g.g Evidently a circular storm
15	47.2	45	29.574	47.2 / 46.2	S	8	49.7	1.4	o.g
☉ 16	46.9	46	29.294	46.4 / 45.9	S W	5	50.5	41.2	g.g.d
17	45.3	45	29.504	45.3 / 43.9	S W	5	48	43	g.g.
18	43	44	29.628	42 / 40.8	N b W	9	45.5	36	g.r.
19	38.2	42.5	30.246	37.7 / 35.9	W b N	5	43.5	34.8	b/10 r meteors at 4.50 N to NE
20	29.9	40.2	30.360	28.4 / 28.3	N b W	0	39.8	24.5	f.
21	33.8	38.8	30.540	32.5 / 32.0	N E	2	35.5	27.1	b/1 c.r Bright Aurora arch with faint streamers to N
22	34	38	30.636	— —	N E	3	36 8	29 6	o
☉ 23	33	35.8	30 503	32.4 / 31.9	W b S	3	40.3	30.8	o r W bulb wetted with from within
24	36.5	38.1	30.526	36 / 34.9	N W b N	0	42.6	33	b/05 c.m.
25	42.5	38.5	30.316	42.3 / 41.5	W b N	4	43 8	34.5	o cumulus stratus d.r
26	45.8	40.9	29.673	45.2 / 43.2	N W b W	9	47	37	c.g.r.r
27	31.9	38	29.444	30.8 / 30	W b N	5	42.2	18	b/5 c r ground White with sleet
28	26 1	33.5	29.612	32.1 / 32.9	N W b W	4	31	25 2	b/2 c.r snow
29	32.1	35 2	29.884	31.2 / 30.1	N W	3	36.2	23.1	g.cum.r
☉ 30	23 8	33	30.192	27.6 / 27.5	S W ÷ S	2	34 8	29.8	b/10 m
31	23	32 8	30.170	21.9 / 21.8	W b N	0	31	20 8	b/10 m
	37.92	40.25	29.769				42.49	33.12	

Extraordinary Height Barometer

1849	Evening 10			Morning 22			Rain		Vapour tension	Wind		Thermometer	
	E	A	Bar	E	A	Bar	Square	Globe		Force	Direct	max	min
Jany	39.42	40.60	29.576	40.73	41.73	29.570	2.422	6.302				51.8	26.0
Feby	42.60	44.37	29.929	44.21	43.93	29.951	0.653	2.507				54.3	28.6
March	42.27	45.06	29.826	45.45	44.99	29.870	0.688	1.483	1.383			57.	25.
April	40.41	44.03	29.513	45.42	43.69	29.536	1.285	2.091				59.	27.
May	49.02	53.99	29.692	55.16	53.25	29.693	2.523	3.004	3.214			65.5	32.9
June	52.06	57.93	29.854	57.98	56.95	29.849	0.671	0.870				70.8	41.5
July	55.51	60.70	29.699	61.01	60.47	29.692	3.324	3.977				77.	47.
Augt	55.38	59.66	29.747	60.12	59.77	29.724	2.468	2.891				72.5	44.5
Septr	52.17	57.73	29.786	57.46	56.92	29.772	3.095	3.554				70.2	42.
Octr.	44.52	49.37	29.656	49.22	48.91	29.658	3.508	4.387	4.390			62.3	32.5
Novr.	44.56	47.18	29.582	42.92	46.39	29.591	1.504	2.726				57.	32.
Decr.	37.92	40.25	29.796	38.03	39.83	29.824	2.172	3.256				60.8	18.
Summer	51.41		29.723	56.77		29.713	15.589	18.683					
Winter	[illegible]	41.16	29.701	[illegible]	42.76	29.721	8.1724	18.365					
Year	46.33		29.714	49.84		29.714	24.213	37.048	37.161				

Mean temperature of Year = 48.09

Maximum. July 11 — 77°.00

Minimum. Decr 27 — 18.00

Mean Barometer — 29.714

Maximum. Decr 22. 10 hours — 30.668

Minimum Jany 9. 22 hrs — 28.688

Rain on 230 Days