

1845	Morning 22 hours						Rain		
January	B	A	Bar	Hygr	Temp	Wind	□	○	
	39	40	29.914	39.5	1	SS E			om St
	41.5	40.4	29.604	41.3	2	S	0.0360	0.0880	om d St
	37	38	29.924	37.2	5	SW	0.0350	0.0470	om St
	48	44	29.688	48.4	7	SW	0.0460	0.5540	ov St cum
5	45.3	45	29.820	45.3	1	W	0.0030	0.0400	bc m St cum
	34.2	41	30.020	34.2	0	—	0.0020	0.0530	b m
	42.9	42.2	29.810	42.8	4	S			b, v
	44.5	43.5	29.713	44.6	5	S	0.0930	0.0660	o m
	48	46	29.224	48.1	5	S	0.0330	0.0850	o. m Bar heaving
	39.2	48.1	29.784	39.4	5	3	0.1520	0.4370	b. m Bar probably 28.4
	36.9	39.8	29.557	36.9	1	S			b. m
12	42.1	42.5	29.120	42.1	6	SE	0.3840	0.4070	o Rain
	40	41	29.540	40.2	2	N by W	0.0150	0.0190	o. m
	41.9	41.5	29.356	41.9	2	S	0.0710	0.0920	o. m
	37.2	39.6	29.783	37.2	1	S by W	0.0400	0.0620	b. m cum
	44.9	43.5	29.550	44.6	6	S by W	0.1620	0.3170	o Rain
	40.2	40.2	29.162	40.2	7	SE	0.7000	0.8500	r
	34.2	37	29.018	34.2	2	SE W	0.0700	0.0800	bc m
19	35.2	36.5	29.500	35.2	2	WSW			bc St cum
	41.5	38.7	29.872	41.5	5	S			bc m St. St cum
	44.5	42	29.880	44.5	2	SW			bc m St
	49	47	29.350	49	9	S	0.0200	0.0580	om St cum Bar heaving
	41.7	42.4	29.584	41.7	3	WSW	0.8978	0.1800	bc St cu
	49	44	29.460	49	7	SW by W	0.0090	0.0150	d
	37.3	42.4	29.502	37.3	6	W by N	0.0300	0.5300	bc vfg St. Wind 11 in night
26	35.7	41	29.094	35.7	4	W			bc St. St
	32.8	38	28.838	32.8	3	N			3
	27	37	29.105	27	0				bc St
	28	34.5	29.068	28	0				bc m St
	31	32.4	29.456	31	2	NNE			bc m St
	30.4	32.4	29.816	30.4	0				om St
	40.99	40.67	29.520	40.99	107		2.8048	5.6000	

1845	Evening			10 Hours			Max	Min	
January	E	A	Bar	Hgt ²	Force	Direction			
1	38.5	39.8	30.010	38.43	0		40	35	om
2	38.7	39.6	29.734	38.33	4	SSE	41.5	38	om
3	35.7	40.1	29.858	38.13	1	SW	43	34.4	bm
4	46	42	29.664	44.43	10	SW	48.5	34.5	r Bar hearing
5	48.7	45	29.536	45.53	8	SW	49.4	44	og v Bar hearing
6	39.5	43	29.964	47.43			46	33	o Rain
7	41.2	41.3	29.956	41.23	2	S	43	34.4	o
8	44	43.1	29.740	42.23	5	S	45	42	o
9	46	44.3	29.458	42.23	7	SW	47.9	44	o
10	44.8	46.7	28.998	44.23	5	S	50	38.5	b.m. bar at 8 th 40 th the gale ceased suddenly
11	38	41.1	29.371	37.23	3	S	43	34	b.m.
12	40	41	29.471	38.23	3	SE	42	36	b.c.
13	42	42	29.149	40.1	3	NE	45	36.1	o
14	42.8	41.5	29.471	42.83	3	S	43	39.1	o
15	39	42	29.657	38.13	2	WNW	45.6	33.9	b.c.m.
16	42.9	41.5	29.637	42.73	6	S	45.5	37	o
17	38.3	41.7	29.468	37.73	1	SW	45.2	35.8	r
18	35.4	38	29.118	38.23	6	SSW	43	32.1	b.c. storm
19	33	37	29.030	32.53	1	S	35.7	30.6	ov
20	33	36.5	29.840	32.23	0		42	32.5	bm
21	42.5	42.5	29.790	42.53	5	S	47.5	41.1	oc
22	44.8	43	29.690	44.73	6	S	50.8	44	om
23	42.8	44.5	29.170	42.73	3	S	50	39	r
24	37	42	29.742	37.3	0		50	35.3	bm a group going off 0 & another coming on
25	45.7	46.2	29.182	45.73	8	SW	52	37	b.c.
26	36.7	41.4	29.462	36.73	2	SW	41.4	31.2	om
27	33.7	40	29.000	33.73	4	WSW	37.8	31.8	om
28	25.7	36	29.074	25.73	0		37	22	bm
29	30	35	29.100	29.03	0		33	26.5	om
30	22.7	33	29.176	22.73	0		31.8	22	bm
31	27	32.8	29.708	27.63	0		33	24.5	om
	35.52	40.76	29.487		108		43.5	34.8	
	110/1	1263.6	55.104						
			26 = 0						

1845	Mornings 22			Noons			Rain		
Feby	E	A	Bar	Wyg	Force	Direct	□	O	
	35.7	35.2	29.853	35.43	3	S			om St
2	42.5	37.5	29.898	42.53	1	N	0.1860	0.2500	bcv St Cum
	38.7	38	30.080	38.63	1	SWW			om St
	41.5	38.7	29.934	41.53	2	W			bcv St Cum
	35.3	37.4	29.986	35.13	5	N			ov St Cum
	31	34	29.858	30.53	3	ENE			ov St
	34	34.4	29.848	33.63	4	SW			ov St
	39	36.8	29.500	38.73	5	S	0.0250	0.0200	omd
9	41.5	38.7	29.368	41.53	1	SW			bcv St
	39.2	39	29.781	39.53	1	NE	0.0940	0.1000	om St
	40.5	38.7	30.006	40.53	5	S			om St
	48	42.7	29.586	48.3	6	SW	0.0340	0.0300	om St
	37.2	39.7	29.674	37.53	5	W			bcv St Cum
	38.6	38.9	29.923	38.73	2	W	0.0150	(.0150) Cock Cuck	bcv St
	42	40.7	29.692	42.73	2	S			om St
16	45	42.4	29.588	45.33	7	SLE			bcv St Cum
	41.3	42	29.764	41.53	5	S			bcv St Cum. S
	40.8	40.3	29.908	40.13	3	S			bcv St Cum
	39.1	39.8	29.882	39.83	3	SSW			om St
	38.9	39.6	29.628	38.63	5	S			bcv
	39.8	40	29.122	39.73	7	SEAS	0.0970	(.0970)	om St
	40.6	40.1	29.208	40.63	3	SW	0.0360	(.0360)	om St
23	42.2	40.4	29.588	42.33	3	W	0.0100	(.0100)	bcv St Cum
	42.9	40.3	29.724	42.83	5	SELE			om St
	43.3	41	29.580	43.33	4	W	0.2200	(.2200)	bcv N. St
	42.8	41.4	29.740	42.83	0				om St
	41.6	41.4	29.626	41.53	4	SEAS			om St
	42	41.4	29.678	42.3	2	SW	0.2236	0.2630	r
	41.79	39.30	29.716		97		0.9400	1.3260	= had the cock not leaked

1845

Evening 10 hours

February

F

A

Bar

Hgt

Fore

Wind

Direction

Max

Min

2	1	32.5	34.7	29.852	32.5	0		35.5	30	om	
	2	38	36	29.802	38.4	4	S	43	35	rm	
	3	39	38	29.998	39.4	0		47.4	37	om	
	4	37.6	38	29.990	37.2	3	SW6S	41.5	35.2	om	
	5	39.8	39.2	29.864	39.3	4	NW6N	44.4	34	bcm	
	6	29.8	35.4	29.926	36.2	1	N	39	27.2	bv	
	7	29.8	34.6	29.868	29.8	1	ESE	34	30	ov	
	8	33.9	35	29.712	30.5	6	SSE	39	33	sq	
6	9	39.2	38.3	29.484	32.4	3	SW	44.4	36.8	bcm	
	10	40	39	29.346	39.4	1	SW	44	37.5	om	
	11	37.2	38.6	29.018	37.4	1	SW6S	40.5	35	om	
	12	43	41	29.832	42.5	7	S	48	40.4	dg	
	13	38	42	29.596	37.8	1	W	51.4	34.5	bcm	
	14	35.4	39	29.872	37.7	3	NW	41.5	33.7	rm	a large group on 1st limb
	15	40	40.7	29.822	40.3	1	S	45	38	om	
6	16	43.6	42.	29.618	43.5	5	SW	45	41	ov	
	17	42.1	43.	29.658	42.9	5	S	47	37.6	om	
	18	40	41.	29.843	40.4	2	S	43	37.1	om	
	19	37	41.	29.902	39.5	3	S	44.5	34.6	om	
	20	37.8	41.	29.808	37.3	2	SSW	45	32.6	bcm	
	21	38.8	40.1	29.302	38.6	6	SSE	44.6	37.8	dg	
	22	39.4	41	29.154	39.2	1	S	45.2	37.3	bv	
6	23	40.6	40.1	29.308	40.3	4	NW	44.2	37.3	om	
	24	37.8	41.5	29.805	37.8	0		45.8	36.7	bcm	
	25	40.5	43	29.394	40.2	3	SW6W	45	37.8	bv	
	26	37.3	42.7	29.728	37.2	2	SW6W	48.3	37	bcm	a spot on 1st limb & 2 on the 2nd
	27	38.9	42	29.638	38.6	0		45.4	38.3	bv	
	28	41	41.4	29.650	40.6	7	SW	42.4	40	om	

38.89

39.62

29.703

74

43.7

35.8

1845	Morning			22 Hour			Rain		
Month	E	A	Bar	Hyp ²	Area	Wind Direction	□	○	
1	44.3	40.4	29.812	44.23	2	W	0.0220	0.0420	bc m St cum
2	43.9	42.3	29.680	43.83	5	NNE	0.0230	0.0320	bc v cum. St cum
3	40.2	39.6	29.746	40.43	2	S			bc m Cir St
4	36.5	39.5	29.906	37.83	4	ENE			bc v St cum. Ci
5	33	36.3	30.198	32.83	5	ENE			bc v Cu
6	36	35.7	30.224	35.53	4	NNE			om St
7	40.7	38.4	30.174	40.33	4	NEEN			bc v St cum
8	42.6	39.6	30.280	42.13	5	NE			bc v cum. St cum. S
9	43.5	40.3	30.150	43.53	5	NNE			bc v St cum
10	37.2	38.4	30.000	36.83	5	NE			bc v Cu
11	33.3	35.6	29.766	33.33	1	NEEN			bc m St cum
12	32.5	34.2	29.657	32.33	4	EN			bc v cum. St cum
13	30	32.4	29.560	28.53	1	NLE			S
14	27.5	32.3	29.678	26.83	5	E			bc v cum. Cu
15	30.7	31.3	29.674	30.53	3	EN			om St
16	30.4	31.4	29.686	29.43	2	SWW			bc m S. Ci S.
17	40	36	29.584	40.33	3	NW			bc m St. St cum
18	37	36.6	29.616	36.43	3	NEEN	0.0290	0.0440	om St
19	35.5	34.7	30.036	34.83	1	NW			bc m St cum
20	39	37.2	29.938	38.83	8	SW			om d St B bearing
21	31.5	44.2	29.836	31.83	8	SW	0.0600	0.4210	odgm. St B bearing
22	50	46	29.880	42.83	5	WSW		0.0360	bc m St cum. Ci St
23	45	43.8	30.000	45.53	1	SW			bc m
24	50	45.4	29.650	47.83	5	SW	0.0795	0.1600	om St
25	45.6	44.7	29.600	48.83	6	SWW			bc m St cum. Cir
26	47	45.4	29.500	46.83	3	SWW	0.0670	0.6500	r
27	46.7	45.8	29.350	47.33	9	W	0.0130	0.0840	bc p. v. St cum. N B bearing
28	44.6	45.4	30.042	43.83	2	NW W	0.0050	0.0280	bc v St cum B bearing
29	43.8	44.4	29.620	43.63	9	SSE	0.0510	0.0810	r g
30	49.1	45.6	30.030	44.33	5	SW S	0.0100	0.0270	bc m S
31	49.2	45.6	29.876	49.43	6	S			bc m St. Cir
	40.52	39.63	29.829		126		0.3595	1.6220	

1845	Evening 10 hours						Max	Min	
Month	E	A	Bar	H ₉₉ ²	Force	Direction			
1	36.5	41.1	29.782	33.8	0		47	35	b m
2	41.8	41.5	29.718	41.5	3	WSW	47	40.2	b m
3	37	43	29.714	37	0		47.4	33	b m
4	35	40	29.786	34.7	4	SE	42.5	32.5	o m
5	29.8	36	29.100	25.5	4	SSE	38	26	b v
6	29.4	36	30.236	25.7	1	NE	36	26.7	b v
7	36.4	37.6	30.206	36	2	NE	40.7	34	o v
8	35.3	39	30.234	35.2	3	NNE	45	34.5	b v
9	40	40.6	30.242	38.5	1	NE	46.2	38.4	o v
10	38.8	41.1	30.032	35.4	1	N	48.2	32	o v
11	30.6	38	29.916	29.2	1	NNE	41	26	b v
12	29.6	37	29.668	28	1	E6N	38.1	24.4	b v
13	22	34	29.570	27.5	0		34	22	b v
14	27.5	34.5	29.564	26.5	5	NE6N	33.4	22	b f v
15	25.4	32	29.724	25.5	4	NE	33.4	23.5	b v
16	24.4	32	29.655	22.4	0		33.4	21	b m
17	31	34.7	29.632	30.4	1	SW	40	29.4	o m
18	37.6	37.	29.558	33.4	1	S	43.4	32.5	o m
19	29.3	35.8	29.836	27.4	1	NNE	40.4	24.5	b m
20	33.8	36.7	30.080	33	5	S	41.8	32.8	b v
21	47.8	42	29.860	45	6	SW	51.6	38	a m g
22	50.4	46.	29.852	49.8	6	SW	55.6	44.4	o v g
23	42.3	46.	29.917	42.3	1	NE	53.4	34.5	b m
24	43.2	43.8	29.780	43	6	SE	53.3	42.2	o m
25	38.4	44.7	29.607	37.8	2	SW	52	36.4	o m
26	47	46	29.323	45.5	9	W	52	44.5	o p g v
27	50.	48.4	29.188	47.7	10	SW6W	54.7	42.5	o g v
28	40.8	45.5	29.686	40.3	6	W	50	39	b f g v
29	40.7	46.1	30.110	40.7	0		53	41	b f m
30	42.7	45.3	29.830	41.4	4	W6N	51.2	36	Wind at 2 ^h 10 from S W. at 3 W 6 S. 10 at 4 W 10. at 6 W 6 N 9
31	41.2	46	29.944	40.9	4	S	54.1	39.8	
	36.54	37.02	29.818		90		45.1	33.2	
		40.89							

a small spot on 0

Aurora

a large Solar Spot 3 diameters

B hearing

Halo 0

B hearing

B hearing

B hearing

h

1865	Evening			10 hours			Thermometer			
April	E	A	Bar	Hg ⁹²	Force	Direction	Max	Min		
♂	1	44	48.4	29.869	43.63	0		58.5	42.8	b m
	2	46.9	50.2	29.840	45.83	1	ENE	54.1	39.1	o m
	3	48.4	50.4	29.718	42.83	2	ENE	59.4	40.7	b m
	4	44.3	50.6	29.902	42.43	2	N 6 E	58.5	38.6	b m
	5	37.2	46	29.885	36.13	1	SW	48.1	35.1	b m
⊙	6	38.	48.2	29.812	37.63	1	S	54.9	32.3	b
	7	46	50	29.370	45.73	4	SW	58	37.9	o c
	8	40	47	29.040	39.83	0		50.9	37.8	r
	9	39.8	47	28.958	38.73	0		49	36.4	b m
	10	37.2	45.4	29.375	38.43	0		48	36.4	b m
	11	42	47.2	29.580	42.33	2	SW	49	37.5	ov
	12	41.6	46.4	29.518	41.63	5	SW 6 S	51.8	41	o p m
⊙	13	43.6	46	29.164	43.33	8	W 6 N	51.8	41.2	b c p q v
	14	44	46	29.804	43.53	8	NW 6 N	52.8	39.9	b c p q v
	15	38.2	45.7	30.278	37.53	1	N	51.7	35	b m
	16	46.7	48	30.350	46.73	4	N	54.7	44.8	ov
	17	49.1	51	30.231	48.33	4	NNE	61	44.7	om
	18	48	51.6	30.104	47.73	1	ENE	58.9	42	b m
	19	46.8	52.3	30.012	46.43	1	N	57	40.5	b m
	20	48.8	53.7	30.020	48.53	1	SE 6 S	60.3	41.2	b m
	21	49.3	54.3	29.924	49.33	1	E 6 S	68	44	b m
	22	47.1	53.5	29.775	45.83	0		58.8	42.5	b m
	23	49.2	55.6	29.592	47.93	2	NNE	61.4	44.8	b c
	24	49.9	56	29.531	49.33	0		63.5	46	o
	25	50	52	28.944	49.23	9	SE	55.5	46	o q
	26	47	51.4	28.857	47.63	9	S	57.5	46	om
	27	48.6	50.6	29.146	48.33	7	SW 6 W	54.6	46.6	om
	28	47	50.8	29.462	46.73	1	S	58	45	b c m
	29	49.1	51	29.560	49.33			59.8	47	o. rain
	30	52	53	29.338	52.83	6	SSW	59.1	49.5	o.
		45.31	49.98	29.629		81		56.1	41.5	

a large group of spots on ⊙

the wind was from the north at the ^{time} window

a large group on ⊙ 1st limb

Halo ⊙

a small solar spot

a group of bright spots on 1st limb

a group extending in & nearly 21 seconds & about 6" in d; followed by a very black spot 3" diameter

1845	Morning 22 Hours					Rain			
May	H	A	Bar	H _{ys} ²	Force	Wind Direction	Square	Globe	
1	53.2	51.1	29.544	53.43	4	W by S	0.0310	0.1140	b. c.
2	48.5	51.7	29.625	53.53	4	W	0.0660	0.1150	o. m
3	49.6	50.5	29.786	49.53	6	NW by W	0.0250	0.0420	bcv cum. St cum
4	48.8	49	29.821	49.2	1	W			o. m
5	43	48.8	29.608	42.53	1	N	0.4500	0.4610	r
6	47.8	48.9	29.782	50.3	4	NE	0.0435	0.0410	bcv cum. St cum
7	47.8	48.7	29.406	47.3	2	NE	0.1450	0.1700	bcv cum. St cum
8	48.7	48.9	29.334	47.33	1	E	0.1450	0.1510	om. St. St cum
9	49.1	48.7	29.435	47.63	3	N by E	0.0870	0.0960	om St cum
10	54	48.2	29.634	53.13	5	SW			bcv cum. bu
11	51.5	50.9	29.723	49.83	4	NW	0.0125	0.0190	bcv cum
12	53.6	48.7	30.096	54.3	5	N			bcv cum. St cum
13	56.5	50.7	30.242	55.83	2	SW			om St. St cum
14	57.1	53.4	30.284	57.43	2	NW			om St
15	57.1	54.8	30.293	58.73	3	NW			om St cum
16	54.1	54.5	30.156	54.73	5	NW			ov St. St cum
17	52.5	53.8	30.034	53.63	4	NW by N			ov St
18	50.4	52.2	29.836	50.23	4	NW by N			ov St.
19	52.1	51.1	29.860	53.83	1	NNE			b. c
20	53.3	52.1	29.784	53.33	1	N			b. c Cirrus and Cumulus
21	52.4	52	29.750	52.33	2	N by E			b. v Cirrus streaks
22	55.2	53.2	29.832	55.3	3	NE by N			bcu St cu
23	54.2	55.7	29.847	54.23	4	NE			bcu Ci. St cu
24	53.1	55.3	29.747	52.83	2	NE by E			om St St cum
25	51.7	53.5	29.634	52.43	5	NE by E			bcu St cum
26	49.2	52.7	29.716	49.53	5	E by N	0.1285	0.1820	om St
27	54.6	53.1	29.898	54.43	6	E by N			bcu
28	53.1	54.7	29.735	53.73	4	NE			bcu St cum. Ci
29	56.6	53.4	29.857	56.43	5	NE by E			bcu
30	60.4	56.6	29.962	60.33	4	E by S			bcu Ci St. Cir
31	59	57.6	29.824	59.33	3	SSW			om St
	52.59	52.08	29.841		102		1.1335	1.3910	

1845

Evening 10 Hours

Thermometer

May	H	A	Bar	Hyg ²	Force	Direction	Max	Min	
21	1	48	51.9	29.397	47.2	W by S	60	44.3	b.c.
	2	46.1	52	29.710	45.1	W by S	57.1	45.1	c
	3	46.6	52	29.773	46.3	W	54	43	b.c.v
22	4	42.5	50.2	29.876	45.3	S	54	40	b.v
	5	46.4	50.6	29.722	45.2	S	54	42	ov
	6	44.7	49.7	29.728	44.5	NE by E	50	41.5	b.c.v
	7	46	49.7	29.610	44.3	N	53	40.5	ov
	8	44	49.2	29.324	43.5		52.5	41	r
	9	42.4	48.4	29.370	41.5		53.5	41.2	o.p.v
	10	43	49	29.620	42.5		56.3	38	b.v
23	11	45.8	50.4	29.592	44.6	W	57.8	40.7	b.c.v
	12	41.5	49.7	29.929	41.2	SW	54.3	39.4	b.v
	13	45.6	51.2	29.218	45.5		59	44.5	b.c.v
	14	54.1	53.4	30.246	54.4		64	52	om
	15	51.7	56	30.320	51.6	NW	67	50	om
	16	51	56	30.236	50.6	NW by W	63	50.5	ov
	17	47.4	54.1	30.140	46.4	NW	58	47	b.c.v
24	18	49.6	53.3	29.924	48.6	NW	55.4	45	ov
	19	48.3	53.2	29.819	47.3	N by E	57.9	42.2	o.v
	20	45.1	54.2	29.808	47.2	-	59.8	40.2	b.c
	21	46.9	53.1	29.756	46.9	N by E	62.5	44	o.v stratus
	22	47.2	56.2	29.814	46.5		63.4	43.3	b.v
	23	45.9	55	29.813	43.4	NE	64	45	b.c.m bi
	24	50	57.1	29.812	49.2		63.5	45	b.c.m St Cum
25	25	49.7	55.4	29.674	48.3	NE	57.2	45	om St
	26	45	54	29.618	44.3	NNE	58.4	44	r
	27	46.3	53	29.857	46.9	E	55.8	42.5	b.c.m St Cum
	28	48.4	55.3	29.844	47.5	N	59.5	41.5	b.c.m St
	29	47.1	55	29.780	44.8	N	59	42.5	b.m
	30	51	57	29.945	50.9		64	50	b.m
	31	54.2	59.4	29.926	54		67	51	om
		47.15	53.06	29.815	57		58.4	44.0	

1845	Morning 22 Hours				Rain		Globe	
June	H	A	Bar	Height	Force	Direction	Quantity	Quality
1	58.9	58.	29.659	58.8	7	SW6S		ov
2	56.1	57.2	29.148	58.8	8	SW6S		r Bar heaving
3	53.9	53.5	29.152	53.2	8	SW6W	0.3260	0.5110 b.c. St cum. N.
	59	58.9	29.024	59.2	8	S	0.1330	0.1720 om St cum Bar heaving
	56	54.7	28.860	56.3	10	SSW	0.1010	0.2500 odm St cum Bar heaving
	58.5	63.6	29.518	58	5	WSW		ov St cum
	53.1	53.6	29.706	53.1	5	NW	0.6890	0.6850 ov St cum
	56.4	53.7	30.024	56.2	8	SW		ov St Bar heaving
9	58.5	56.3	30.156	58.7	2	SW		ov
10	63	57.4	30.100	63.4	4	SW6W		bcv Cu. St cum
11	68.7	62.8	30.048	68.3	2	SW6W		b.c.v.
12	65	61.4	30.134	64.6	2	WNW		bcv cum. 6
13	65	62	30.094	65	1	NE		om St cum
14	61.1	62.9	29.864	61	4	SW		om St
15	60.8	62.2	29.629	60.8	2	SW	0.1050	0.1280 b.c.v.
16	63	62.5	29.664	62.2	4	SW		bcv St cum. 6i
17	62.7	62	29.678	63	1	W	0.1000	0.1070 bcv St cum
18	61.2	61.2	29.849	60.8	0	—	—	b.c.v. Cumulus
19	62.9	60.9	30.064	62.2	1	W		ov St cum
20	64	60.9	30.066	63.7	3	NW6W		ov St cum
21	59.1	59.4	30.022	59.5	5	NW6W		bcv St cum
22	61	60.4	30.024	60.8	5	W6N	0.0100	0.0130 om St
23	61.2	60.8	29.664	60.5	5	W6N	0.3830	0.3520 bcv
24	57.8	58	29.665	58.1	4	NW		bcv St. St cum. 6i
25	56.4	56.9	29.748	56.2	3	NW6N		bcv cum. St cum
26	51	56.4	29.370	56.5	6	E	0.1170	0.1340 r
27	55	54.8	29.410	55.2	8	N6W	1.4140	2.0620 bcv St cum
28	56.3	53.6	29.632	56.1	3	SSW	0.0310	0.0460 ov St. St cum
29	61.4	56.8	29.516	60.4	4	SSW	0.3850	0.4000 bcv
30	58.4	56.	28.766	58.2	7	SW6W	0.5720	0.7060 r
	59.41	58.20	29.674		133		4.3660	5.5660

1845

Evening 10 hours

Thermometer

June

E

A

Bar

Hyg^m

Force

Wind Direction

Max

Min

1	58.4	59	29.766	58.4	3	SW	67.4	51	bcn St Cum
2	54.4	59.2	29.502	53.8	4	SWbS	67	50	bcn St Cum
3	45	53.2	29.090	52.7	5	W	57.8	23.2	bv
4	49.5	55	29.206	44.5	1	SW	60	49.3	om two solar spots
5	53.4	56	28.800	43.4	10	S	61	52	ogm St Cum
6	49.9	54.2	29.346	50.7	9	SW	60.4	46	om St Bar clearing
7	48	53.7	29.484	46.6	6	N	60.6	47	r
8	48.7	54.6	30.005	46.7	3	SW	60.4	46.6	bcv
9	56.4	55.6	30.126	47.1	4	SWbW	61.5	52.2	ov
10	55.8	57.4	30.114	56.6	3	SW	64	56.5	bcn
11	58	60.7	30.072	57.1	1	SW	75.2	49	b.c.m. Several large spots interspersed
12	56.7	63.3	30.090	56.8	11	SW	77	52.5	bcn over C, some very near the Southern
13	57	62.2	30.132	52.5	0		75	55.7	bcn 1 line
14	60.5	63.5	30.004	56.6	0		72.5	58	om
15	58.4	62.5	29.694	60.3	1	SE	63.2	58.8	om
16	55.8	62.1	29.634	59.7	1	S	65.8	53.3	om
17	53.6	62.2	29.672	53.3	2	S	67	51.7	bcn
18	52.6	62	29.744	52.3	0		66.1	48	bcn
19	55.7	61.6	30.016	52.4	0		65	54.5	om
20	56	61.4	30.027	52.4	2	SW	66.7	56	om
21	53	60.3	30.050	52.8	1	NW	66	52	ov St Cum
22	54.3	60	30.004	52.8	0		62.5	54	r
23	53.7	61.4	29.986	53.7	1	W	68.4	52.5	bcn
24	52	58.4	29.682	53.2	6	NW	62	50	opgv
25	48.8	58.7	29.705	52.0	0		64	44.4	bcv S
26	50.8	58	29.668	48.4	5	SEbE	62	49.4	om
27	48.8	54.7	29.147	48.4	8	NNE	55	44	r
28	46.8	55	29.650	48.4	3	NNW	58	43.5	bcv
29	49.6	55	29.506	44.2	3	SW	61.1	50	bcv
30	55.6	57.4	29.467	44.1	1	SW	61.5	51	oc
	53.14	58.61	29.713		84		64.5	50.7	

1845	Morning			22. hour			Rain		
July	E	A	Bar.	Hygr.	Force	Wind Direction	Square	Globe	
1	57.6	56.1	29.614	57.12	2	W6N	0.0710	0.1390	bey Cum
2	57.6	57.5	29.506	57.13	5	NNE	0.1320	0.1790	r
3	58	56.5	29.710	58.53	7	SW	0.6140	0.8000	bey Cum
4	58.8	56.4	29.956	58.23	6	S			bey Cum. bi
5	62.5	55.1	29.848	58.43	5	E6S			om st
6	62.9	60.1	29.685	58.53	5	S	0.2800	0.3210	o.m. Cum. strat and Nimbus
7	62	60.8	29.566	57.23	6	SW6S	0.0335	0.0320	bey st. N
8	59.6	58.6	29.648	58.83	6	WSW	0.6840	0.7600	ov st
9	54	56	29.532	53.43	1	SW6S	0.0200	0.0420	f Marked at 19 ^h
10	57	57.8	29.632	53.33	5	NW6N	0.0540	0.0780	bey Cum
11	56.4	56.8	29.815	57.43	3	NW			bey st Cum. bi
12	60	58.6	29.706	59.53	5	W	0.0870	0.1030	ov st Bar heaving
13	58	58.8	29.920	59.83	3	NbyW	0.0090	—	bey Cum. strat and Nimbus
14	58.6	58.3	30.080	59.63	4	N6W			bey st Cum. bi st
15	53.4	56.2	29.924	53.33	2	SW			bey bi st Marked at 19 ^h
16	62	59.6	29.756	62.23	5	W6S	0.1750	0.1970	bey st Cum
17	63	58.6	29.960	62.43	1	WSW			bey Cum st Cum. bi
18	58.6	56.7	29.958	58.33	2	ENE			bey bi. G. bi st
19	59.6	59.8	30.016	59.73	4	ESE			om st
20	63.4	60.6	29.974	63.73	4	NE			bey bi
21	58	61	29.968	60.73	4	NNW			bey Cum
22	57.4	61.2	29.846	57.23	2	E6N			bey st Cum
23	57.2	60	29.916	57.33	3	NE			ov st
24	58.6	61	29.850	58.43	2	N			ov st
25	62	61.3	29.734	61.23	4	SW			ov st Cum
26	60.6	60.7	29.446	60.43	5	SW	0.0250	0.0470	bey st. Cum
27	58.7	56.7	29.487	60.93	4	SW	0.0540	0.0660	bey st
28	56.7	55.8	29.614	56.93	0		0.1870	0.2000	bey Cum
29	52	56.7	29.382	52.33	5	SE	0.2100	0.2560	om st
30	55	58	29.100	53.33	6	SE	0.3150	0.3560	bey m
31	52	56.4	29.260	52.33	1	NE	0.2100	0.3200	ov
	58.04	58.28	29.724		118		2.9805	3.6280	

1865

Evening

10 hours

Thermomet.

July

E

A

Bar

Hygr.

Force

Wind

Direction

Max

Min

1	52.2	56.4	29.300	53.3	5	WNW	60.4	48	ov
2	51	57.4	29.644	50.5	0		65.4	50	bcm
3	55	57	29.184	54.9	6	SE	58	48.5	r
4	50.8	56.4	29.884	50.4	5	SW6S	63.7	47.5	bv
5	50.8	57.4	30.000	50.6	3	SE	63.4	50	bv bi
6	56.6	58.4	29.734	56.4	3	SE6S	64.0	53.5	om
7	56.3	59.6	29.630	56.4	7	SE	66.7	54.7	bcm
8	54	59	29.584	53.7	5	SW	64.5	51.8	r
9	54.5	58	29.552	53.4	0		61	50.8	bcm
10	51.7	58.7	29.567	51.3	2	NW	65.4	49.5	ov
11	51.5	56.6	29.758	51.4	1	NW	60.5	46	ov
12	53.7	57.8	29.794	53.6	2	SW	63.6	52.2	d
13	54	59	29.747	54.5	5	WNW	59.2	52.5	ov
14	54	58.5	30.000	54.7	5	N	62	47.6	ov
15	51.1	58.8	30.016	54.5	0		64.4	47.3	bcdv bi
16	56.4	58.7	29.732	56.3	0		64	51.6	r
17	55	59.8	29.870	54.7	2	SW6W	64	53	ov
18	53.2	60	30.008	53.3	0		69	48.8	bv
19	55.2	62	29.972	55.3	4	SE6S	66.1	52.4	bcm bi
20	56.5	61.6	29.996	56.3	1	NE	65	54	bcm bi
21	57	64	29.946	57.2	4	NE	72.7	55	bcm
22	55	62	29.887	54.3	3	NE6E	69	54	bcm
23	54.6	59.8	29.930	55.3	1	SE	68.4	53	om
24	56.7	62.4	29.884	56.4	3	NE6N	64.3	55.4	om
25	55	62.4	29.832	55.4	0		67	53	ov
26	57	61.1	29.836	57.5	6	SW	64	55	ov
27	58.7	59.2	29.885	58.2	3	SW	62.4	48	bv
28	50.4	57.3	29.834	50.4	2	N	60.5	45.4	odm
29	51.7	59.2	29.620	51.4	0		62	50	om
30	52.5	57	29.010	52.2	4	SE	62	51	om
31	50.4	57	29.774	50.3	2	ENE	58	50	bcm

53.58

59.24

29.706

84

63.9

51

1845	Morning 22 hours						Rain		970
August	E	A	Bar	H ₉₉ ²	Force	Wind Direction	Square	Globe	
1	61.9	56.6	29.293	62.3	0		0.2360	—	ov found cock of Globe gauge open
2	58.6	57.0	29.217	58.23	3	S.W	0.1670	0.2520	opv
3	57.2	56.0	29.427	58.23	2	W	0.0340	0.0390	bcr
4	58.8	57.0	29.588	58.53	1	N.E			bcm
5	58.1	58.	29.560	61.23	1	S	0.1580	0.1950	rv
6	58.7	59.	29.603	60.13	1	W	0.0110	0.0110	bpr
7	62.	58.2	29.696	61.33	0		0.2410	0.2130	ov
8	57.	58.2	29.468	58.63	5	NW	0.1460	0.1470	ov
9	60	57	29.500	61.23	2	NW & N	—	0.0060	b.c
10	58.1	59	29.620	58.23	1	N	—	—	c.v
11	58.1	58.2	29.856	58.53	4	N & W	—	—	c.v
12	57	57.1	29.976	58.43	2	NNW	—	—	
13	55	57.	29.920	58.3	4	N & W	—	—	c.v
14	55	58.1	29.764	58.53	4	N.E	—	—	b.c.v
15	54.7	53.7	29.838	54.63	1.	N			ov St
16	55.8	57	29.650	58.33	3	SW & W.		0.0100	om
17	58.8	55.7	29.480	58.73	1	W	0.1635	0.1700	bcr St. Cum
18	57.9	56.8	29.364	58.83	4	N			bcm St Cum
19	55.2	55.4	29.450	58.73	6	NW & W	0.0440	0.0460	bcr Cum. St Cum
20	49	54.8	29.708	49.23	3	W			bcr St Cum
21	60	55.7	29.863	60.63	7	SW			bcm St
22	59.1	57.8	29.652	58.83	8	SW & W	0.0930	0.1480	bcr St Cum
23	56.3	58.2	29.780	58.43	3	WSW	0.0420	0.0600	bcm St Cum. S
24	58.4	58	29.520	58.83	5	SW	0.1660	0.2900	bcr St
25	52.	57.	29.624	58.93	3	W			bcr
26	58.8	58.2	30.100	58.43	3	NW			ov St Cum
27	63.7	60.8	30.204	63.23	1	W	0.0735	0.0840	ov St
28	66.5	62.3	30.254	62.83	1	NW			bcr
29	62.5	62.1	30.318	62.43	1	SW & S			bcm St Cu. Cl St
30	59	62.2	30.322	59.23	1	NNE			ov St
31	57.3	60.4	30.240	58.63	3	NNE			ov
	58.02	57.69	29.737		82		1.5750	1.6700	+0.2065 supposed, had the cock not been left open

1845		Evening			10 hours		Thermom. to			
August		E	A	Bar	Hygr	Force	Direction	Max	Min	
♀	1	50.6	57.6	29.311	49.33	1	N.E	62.8	46.5	b.c.v
	2	53.8	58.8	29.354	53.33	1	S.W	62.	51.	r.v
○	3	51.	57.2	29.338	50.23	0		63.	49.	b.c.v
	4	54.4	59.	29.507	54.23	0		65.	50.	o.v
	5	57.2	58.	29.642	57.03	0		65.5	51	b.c.m
	6	53.8	59.	29.604	53.33	1	W	64.5	51	r
	7	53.5	59.1	29.724	53.33	1	W	65.	50.5	b.c.v
	8	55.	60.	29.576	55.73	2	N.E	66	51	r
	9	51.2	56.5	29.500		4	N by W	61	51	o.v
○	10	54.8	59	29.580	54.33	0	—	65	54	o
	11	58.1	59.5	29.754	58.23	2	N	64.5	53	o.
	12	50.9	57	29.952	50.23	0	—	60	50	o
	13	52.5	57.8	29.990	52.53	1	N by E	61.5	50.5	o.v
	14	53.8	57	29.778	53.73	2	W	59.9	52.1	o
	15	47	56	29.835	46.73	1	NW	59	43.7	b.v
	16	50.6	56.5	29.806	50.23	0		59.6	50	o.m
	17	53	56.	29.540	52.83	3	SW	59	51	o.m
	18	49.6	57.	29.438	48.83	0		63.9	49	b.c.m
	19	49.6	56.2	29.384	47.63	2	W	60.2	49	b.c.v
	20	51.4	56.2	29.620	51.63	3	W by S	59.7	48.6	o.v
	21	49.8	56.2	29.916	49.63	0		60.6	48.4	b.c.m
	22	57.2	58.4	29.690	57.13	8	S.W	64	52.8	h.g
	23	53	58.2	29.700	52.74	1	SW	63.4	48.2	b.m.p
	24	56	58.2	29.672	53.73	4	S	63	54	b.c.v
	25	53.2	59	29.494	53.73	1	S	63	52	r
	26	53.5	59.5	29.450	53.73	2	W	64.5	50.4	o.v
	27	57.3	62	30.180	57.43	0		66	54	o.v
	28	60.7	62.2	30.220	60.13	0		70.8	60.9	o.v
	29	60.4	63	30.280	61.23	0		71.6	58	o.v
30	58	65	30.348	60.83		2	NE	72.1	57.8	o.v
		52.5	62	30.272	52.33	1	NN E	63	52	b.v
		53.40	58.54	29.738		13		63.5	51.3	

1845	Morning 22 hours						Rain				
Sept.	E	A	Bar	Hggt	Force	Wind Direct	□	○			
3	1	61	61.6	30.138	60.93	3	NE 6N		bc m	St Cum	
	2	54.9	58.8	30.124	57.83	1	NE		bc m	Marked at 19 ^h	
	3	58	58.8	30.148	54.73	1	N		ov		
	4	60.2	59	30.074	58.83	1	NE 6N		ov	St Cum	
	5	55	56.1	30.122	54.63	1	S		o. m		
	6	53.8	57.2	30.116	52.13	4	E		bc m	Cum	
	7	59.2	56.6	29.992	55.23	4	SW		bc m	St. Ci St	
	8	62	60.6	29.784	54.33	6	SW S		bc m	St Cum	
	9	61.7	59.8	30.021	51.33	5	SE 6N		bc m		
	10	57.5	57.6	29.942	53.53	5	SE S		bc m	St Cum	
	11	55.2	57.8	29.908	52.13	1	SE 6N		c		
	12	55	57.4	29.664	54.83	3	SSW		r		
	13	55.6	56.6	29.318	52.33	4	SW	0.1125	0.1420	bc m	St Cum. Ci St
	14	54	53.2	29.300	52.13	4 30	SSW	0.0470	0.0460	b. c. m	Cum. Cum
	15	55.3	57.4	29.344	54.63	1	SW	0.0100	0.0170	o m	
	16	55.2	55.1	28.928	52.73	0		0.3450	0.3400	r	
	17	56	54.7	28.870	55.63	4	NW 6N	0.8850	0.8820	bc v	St Cum
	18	51.7	53.6	29.500	54.83	6	NW 6W	0.0600	0.0500	op q v	St Cum.
	19	53.1	52.3	29.510	52.63	6	SE	0.1000	0.1700	d	
	20	50.2	50.4	29.310	49.83	0		0.0830	0.1235	f	
	21	48-	50.4	29.709	48.23	2	N 6E	0.2745	0.2590	bc v	
	22	46	48.8	30.122	46.53	6	N		bc m	St Cum	
	23	51.4	50	30.004	48.33	7	SW 6S		bc m	St	
	24	52.8	52.7	29.438	52.53	6	SW 6W	0.0500	0.1080	bc v	Cum
	25	53	51	29.570	52.53	5	W		bc p q v	St Cum. N	
	26	58	52	29.356	52.23	6	W	0.1580	0.3400	bc m	St N
	27	51.1	51.6	29.560	50.33	9	W 6S	0.0140	0.0400	bc p q v	St Cum. Ci St N
	28	51.3	50.5	29.586	48.83	5	SW	0.0160	0.0288	bc v. m.	thunder at 1 ^h
	29	49	51.4	29.366	48.93	7	WSW	0.2500	0.2580	bc v	Cum Ci St
	30	52.4	51.3	29.580	52.33	7	SW	0.0300	0.0330	bc q m	St Cum
		54.65	55.70	29.663		117		2.3670	2.8290		

1845

Evening 10 hours

Ther

September

F

A

Bar

Wgt

Fore

Wind
Direct

Max

Min

♂

1	54.1	59.4	30.174	54.6	3	2	N	62	54	ov
2	53.5	61	30.138	53.23	3	2	NE 6 N	64.2	52.8	bcr
3	54.9	60	30.132	54.4	3	0		64	54	ov
4	52.7	58.4	30.112	52.6	3	0		63.1	52	om
5	49	57	30.088	49.4	3	0		61.3	47	bm
6	52	56.4	30.120	51.6	3	3	ESE	57.4	52	om
7	48	56.5	30.042	48.2	3	0		60	45.5	bm
8	58.2	59	29.904	58.2	3	5	SW 6 S	64.6	58	bcm
9	57.1	61	29.890	57.4	3	0		67.4	55.5	om
10	55	60.7	29.989	55.5	3	6	ESE	64	52	bcm
11	50.8	58	29.904	50.8	3	0		60.5	50	om
12	53.4	58	29.842	53.4	3	1	SE	59.7	53.5	om
13	54.1	57.3	29.418	54.1	3	3	SW	58	51	om
14	45	55	29.246	45	3	0		59.5	41.8	bm
15	47.2	54	29.396	47.2	3	5	SW	58	44	bcm
16	52.4	55	29.170	52.4	3	1	SSE	58.9	51.6	om
17	53.8	56	28.862	53.8	3	6	SW	58.6	49.5	?
18	50	54.6	29.172	50	3	7	W	59.1	48	bcr v
19	44	52.6	29.714	44	3	1	W	56.7	42	bcr 6i
20	49	53	29.342	49	3	0		55	42	bcm
21	46	50	29.438	46	3	7	NNW	56.8	40.5	ogp v
22	39	49	29.932	39	3	1	NNW	54	35.7	br
23	40.6	50	30.180	40.6	3	1	N	55	39.5	bm
24	47	50	29.655	47	3	7	SW	54	47	om
25	45.7	51.3	29.430	45.7	3	4	SW	58	43	br a large group of spots on center
26	48.5	52	29.635	48.5	3	4	SW	59	48.5	ov
27	49.4	53	29.468	49.4	3	9	SW 6 W	60.5	45.3	bqv
28	44.7	51.4	29.664	44.7	3	6	WSW	55	42.8	bcr qv
29	47	51	29.414	47	3	6	WSW	54.3	44.2	bcr
30	44.8	50	29.490	44.8	3	7	SW 6 W	54.2	43	bqv

49.57 53.35 29.622

94

59.1

47.5

[illegible]

1845		Evening 10 hours						Ther		
Set		E	A	Bar	Wgt	Force	Wind direction	Max	Min	
7	1	49.3	51	29.508	48.43	4	SW	55.2	47	ov
	2	45	50	29.358	45.3	6	NE	54	44	r
	3	50.3	51	29.228	50.13	1	NE	52.9	46.9	r
	4	40	48.5	29.569	38.53	3	NNW	49.6	37.2	b.v
0	5	48	50	29.690	47.53	4	S	51.2	45.8	o
	6	46.9	51.5	29.512	46.73	0		55	44	o
	7	47	51	29.242	46.83	0		52	44	cm
	8	44	50.2	28.850	44.53	3	SSE	52.4	46.2	r
	9	47	50.4	29.024	46.53	7	S	53	42.6	lv
	10	43	50	29.078	43.3	2	S	53	41.1	r
	11	43.7	49	29.640	43.53	0		53.4	41.5	bcn
	12	50.2	51	29.686	50.3	10	SSE	59	49	rq - B hearing
	13	57.8	54.2	29.906	58.23	9	S	60.9	56.2	cm
	14	56	55.3	29.848	56.33	9	SSW	61.4	52.3	cm - B hearing
	15	51.3	53.6	29.824	51.23	6	SW	59.2	45.1	cm
	16	50	52	29.826	50.3	7	SW	55.5	48	o
	17	55.5	54	29.815	55.53	8	SW	51.2	52	o
	18	51.1	53	30.020	51.3	2	W	57.3	51	cm
	19	53.4	54	29.738	53.13	9	SWW	57.2	46	rq
	20	43.8	50	30.088	43.93	4	SSW	54.8	41	b.c
	21	48	50.8	30.254	48.33	4	SW	52.5	45	o - An = 30
	22	48	50.1	30.330	48.3	4	SSW	53	46	o
	23	48.2	51	30.192	48.33	3	S	52	48	cm
	24	47.6	50.1	29.922	47.33	2	NW	51.9	38.7	ov
	25	40	47.4	30.174	40.93	3	SWWS	51.8	40	cm
	26	47.6	48	29.898	47.53	6	SWW	51.3	46	cm
	27	52.5	50.5	29.736	52.73	6	SW	54.8	46	ov
	28	51.6	51.4	29.690	51.73	5	SSW	56.6	51	ov
	29	53.7	52.7	29.872	53.83	6	S	55.1	47.2	ov
	30	43	50	29.930	43.3	2	S	55	41	lv
	31	48.2	51	30.044	48.43	2	SWW	54	46	cm
		48.45	51.05	29.709		137		54.7	45.5	2 Solar Spots

1845

Morning 22 hours

Rain

1.163

No.	E	A	Bar	Hgt	Force	Dir	Square	Globe
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1	48.3	47.9	30.032	48.32	2	ESE		bm
2	47.2	50	30.120	48.2	0			bf
3	47.1	54	29.880	46.73	2	S		bm
4	50	48	29.400	50.53	4	SSE	0.0220	o.m. Rain
5	55.5	54	29.157	54.63	7	SSE	0.0800	0.1600 b.c.v.
6	46.4	56.2	29.141	46.23	4	SSE	0.3700	0.5320 b.c.v.
7	46	51.2	29.240	45.53	1	W?	0.5270	0.5590 b.c.v.
8	46.5	48	29.340	46.23	1	N		o.m.
9	47.8	48	29.188	47.73	1	NE	0.0180	0.0170 o.v.
10	47.5	47.2	29.152	47.53	0		0.0930	0.0990 o.m.
11	45	46.9	29.440	47.03	0		0.0390	0.0440 b.c.m. Cumocumulus
12	40.5	44	29.712	39.93	1	SSW		b.m.
13	35.1	42.1	29.775	34.53	0			b.m.
14	49.5	47.1	29.393	48.53	5	S	0.0190	0.0650 b.c. Cumulostratus Bar heavy
15	44.2	45.9	29.061	44.73	1	E	0.1330	0.1450 o Rain
16	45	45.0	29.315	44.73	2	W	0.2800	0.2950 b.c.v. Cumulostratus
17	47.8	48.8	28.920	47.23	5	WSW	0.1980	0.2980 b.c.m.
18	45.9	50.1	28.460	45.33	8	SSW	0.1530	0.5520 b.c.v. Cum Stratus Squally
19	43.2	44.8	28.768	42.83	4	W		0.1120 o.v. At 19.38 B=28.687
20	38.5	51	29.270	37.53	2	SSW	0.0290	0.0500 b.c.m. Cumulus in horizon
21	36.2	50.5	29.484	35.43	2	SSW		b.c.m. Cumulostratus
22	36.9	39.2	29.812	36.33	3	SSW	0.0020	0.0228 b.c.m. Cir. cum scitens
23	39.5	39.6	29.937	39.53	1	S		o.m. Cir. Cum. and Stratus
24	43.2	43	29.672	42.33	4	SW	0.0600	0.2910 o.m. Cir. Cum and Cirrostratus
25	52	47.5	29.381	52.13	9	WbS	0.3980	o Rain (not a drop from o)
26	50.1	47.9	29.468	50.33	6	WbS	0.0195	0.4045 o m
27	47.8	47	29.121	47.03	3	S		0.0050 b.c.m.
28	41.1	44.5	29.422	40.23			0.0380	0.1120 b.c.m.
29	38.5	41	29.592	37.53	1	SWbS		b.c.m. Some Cirrocumulus
30	40.2	42	29.352	37.93	10	SW	0.0900	0.5719 b.c. do

44.58	49.41	29.400		97		2.1715	4.7552
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1845		Evening			10 hours		Thermometer		
Hour	H	A	Bar	Wgt	Face	Direction	Max	Min	
1	44.1	50.1	30.014	43.73	2	SSW	54	41.8	6m
2	41	48.	30.090	40.3	0		52.4	36.4	6m
3	41.3	47	30.050	41.3	0		53.6	37.7	6m
4	46	47	29.554	45.53	7	SSW	52	45	6v
5	52.8	51.	29.236	52.23	7	SE	56.1	49.9	o. Rain
6	53	52.2	29.873	52.23	7	SE	58.2	44.3	o. Rain
7	44.3	49	29.109	42.23	0		52	42.5	o. m
8	45.4	49	29.347	44.23	1	N	50.7	44.1	o. v
9	43.5	47.1	29.340	43.13	1	N	48.5	43.5	o. v Rain
10	46.1	48	29.100	43.3	1	NE	50.8	42.5	o. m
11	43.1	47.1	29.280	42.63	0		50	42.1	b. c. m Fog Cumulus
12	39.3	46.2	29.603	38.23	0		49.5	36	b. m
13	36.2	43.2	29.779	36.23	0		46	30.5	b. c. m Stratus
14	43	45	29.610	43.33	4	SSW	51	35	b. c. m Cumulus
15	45.1	46.5	29.412	43.7	1	SE	51.6	43.2	b. c. m Cumulus
16	43.1	45.1	28.984	43.93	3	W	47	41	o. v Cumulostratus
17	42.9	44.5	29.109	42.33	3	SE	50.5	41	o
18	47.6	47.	28.768	47.43	5	S	54.5		o Rain
19	45	46.	28.365	43.23	7	WSW	50.1	40.8	b. c. Squally At 8" Over 28.292
20	39	44.	29.072	38.83	2	WSW	47.1	34.5	o. v Rain
21	33.5	42.	29.340	32.53	1	SW	43.2	31.9	b. m
22	35.4	42.	29.612	32.53	0		40	31.3	o. m
23	38.5	40.8	29.855	38.53	0		40.1	32.5	b. m
24	43.2	41.6	29.660	43.83	5	S	46.2	39	o
25	48.9	45.2	29.458	48.13	6	WSW	53	42.8	o Rain
26	51.9	49	29.414	48.83			54.5	42.1	b. c.
27	47.5	47.8	29.323	47.83	5	SW	53.9	46	b. c. m Squally SE at 4 pm
28	45.1	46.1	28.981	45.13			50.8	39	o squally
29	36.7	42.9	29.536	35.53	2	SW by W	45	33.9	b. m
30	47.5	45.2	29.160	47.3	9	S	49	37	o
	43.96	46.15	29.396		79		50.0	39.6	

brilliant Aurora after midnight
after which the sky cleared quite

December	Morning			10 hours					
	E	A	Bar						
1	38.3	40	29.440	38.1	4	SSW	0.1190	0.2970	o.m
2	33.8	38	29.116	33.3	4	WSW	fnw	0.0420	o.m Snowing
3	35.6	37.2	29.481	35.2	1	S	—	0.1330	b.c.m Sky covered with Cir. Cum.
4	39	40.1	29.120	38.9	5	WbS	0.2300	0.5820	b.v some Cumule in Horizon
5	38	38.7	28.981	37.4	2	SSW	—	—	o.m Rain
6	35	39	29.624	34.5	1	SW	—	0.0150	b.m
7	43	39.2	29.725	42.7	1	SWbS	—	0.0180	o.m
8	41.2	40.9	29.950	40.1	4	SW	0.0020	0.0200	b.c Stratus
9	39.9	40	30.200	39.2	1	SSW	0.0290	0.0400	o.m
10	44	43.7	29.940	43.5	3	WLN			b.c Ci
11	38	40.4	30.302	37.3	1	S			o.m
12	30.7	37	30.250	30.3	1	SWW			b.m
13	43.4	41	29.948	42.3	2	SSW			o.m
14	42.1	42	29.602	42.1	5	WbS	0.0100	0.2720	b.c.m Cirrocumulus at great height
15	44	42.8	29.620	43.7	5	WbS			ov
16	40.5	42.2	29.530	40.5	1	SE	0.0480	0.0540	rm
17	36	39.1	29.532	34.4	0		0.7700	0.8400	b.c.m Cumu
18	39	42.3	28.774	39.8	4	WSW	0.0340	0.3100	b.c p.g.v
19	37.1	39.1	29.670	36.8	3	W	0.2350	0.5600	o.p.v
20	35.7	37.2	29.714	35.4	6	NW	0.1440	0.2240	b.c. Cum. St
21	45	39.8	29.130	44.5	5	WbN	0.0280	0.2980	o.w St Cumuli St
22	44	41.5	29.507	43.8	7	NbW	0.0330	0.1720	b.c.v St Cum
23	36.7	37.9	29.980	36.1	2	SWbS			o.m
24	40.5	41.9	30.020	40.2	2	WbS		0.0800	b.m
25	47	44	29.418	46.8	9	SW	0.0080	0.1980	ogdm
26	38.8	39.3	29.898	38.3	5	SWbW	0.0810	0.3660	
27	40	42.7	29.340	39.6	1	N	0.1400	1.4340	o.m
28	39.1	38.7	29.497	38.6	6	SWW	0.0330	0.0280	rmu
29	48	46.2	29.047	48.7	10	SWbW	0.0230	0.2500	o.p.g.m
30	40.4	41	29.536	40.7	6	S	0.0150	0.0840	o.v
31	39	41	29.737	38.2	4	SWbW	0.02800	0.1270	Bar falling Bar rising b.c.v Traces of Cir Cum
Mean	40.09	41.08	29.563		111		1.9990	2.560	
							20570	6.4580	

1825

Evening 10 hours

December	E	A	Bar	Hyge	Force	Winds Direct	Man	Min	
1	36.2	41	29.520	35.83	5	S ½ W	46	34.9	b.m
2	34.8	40	29.161	34.13	2	W	41.5	32	b.c. sleet a few stars
3	32.8	36.9	29.340	32.03	2	W by S	35.8	30	b.v.c Splendid Aurora
4	41	39.8	29.054	43.83	4	W S W	45.5	35	o.
5	35.9	38.8	29.005	34.23	4	S by W	43	34.5	b.v
6	37.8	39.	29.342	37.83	1	NW	42	31.5	o
7	33	37.	29.762	32.43	1	SSW	44	31.2	b.c much cirro-cumulus
8	45.8	41.	29.805	43.53	5	W ½ S	49	38	o.m
9	37.	41.	30.124	36.83	1	W by S	46.9	34.4	b.m
10	48	42.8	29.924	45.33	5	W S W	50	41	o.v
11	41	42.	30.172	37.83	1	SW	43	34	b.c.v. a Spot on ☉
12	39.5	38	30.322	38.53	0		40.4	29.4	b.m
13	32.8	37.9	30.148	37.63	0		43.4	30	om
14	47.5	43.8	29.500	47.33	9	SW	42.8	41	ogm
15	43.7	42.7	29.566	44.13	7	W S W	45.8	42	ogv
16	43	42.5	29.677	43.33	2	S	45	40.5	o.
17	38	42	29.248	37.43	7	NE by E	44.2	32.7	og a large Spot on ☉
18	36.9	40.2	29.360	36.33	3	SW	40	35	b.v
19	38.3	39.2	28.438	37.33	6	W	40.4	34.8	b.c.p.g.
20	39.7	40	29.340	39.33	8	N by W	43	33	b.g.v
21	35	36.9	29.658	34.53	6	NW	46	32.2	om
22	41.5	40.1	29.001	37.23	9	NW by W	46.6	38.8	b.c.g. Stratus
23	35	39.8	29.890	34.63	1	SW	46.4	35	b.m
24	45.6	41.7	29.820	40.33	6	SW	46	36.2	omg
25	41	41.3	29.926	40.83	6	S	47.2	39.6	ogm
26	37	40.4	29.464	36.83	7	S W	50	34.8	og.g
27	48.6	44	29.166	48.33	8	W	51.4	38.4	og
28	33	39.4	29.666	32.63	1	SW	40.8	32.6	b.v
29	51	45	29.236	51.33	8	SW by W	52.6	39	ogm
30	38.4	41.4	29.742	38.43	2	SW by S	48.9	36	b.m
31	41.1	42.4	29.245	41.33	8	W by N	46.8	36.2	b.g.v
mean	39.48	40.58	29.536		135		44.98	35.28	

A 4^h Linde thermometer 2.4 inch

1845	E	A	Bar	E	A	Bar	Rain Inch	Gas Row	Vap tension	Max	Min	Mean Temp	Dew
January	36.52	40.76	29.487	40.99	40.67	29.520	2.805	4.985		50.5	22.0	24.5	
February	38.89	39.62	29.703	41.79	39.30	29.716	0.940	1.326	1.0410	51.4	27.2	17.1	
March	36.34	40.89	29.818	40.52	39.63	29.829	0.360	1.622		54.7	21.0	23.6	
April	45.31	49.98	29.629	51.05	49.13	29.630	1.463	3.156		63.5	32.3	18.2	
May	47.15	53.06	29.815	52.59	52.08	29.841	1.134	1.391		67	39.4	15.9	
June	53.14	58.61	29.713	59.41	58.20	29.674	4.366	5.566		77	43.2	21.7	
July	53.58	59.22	29.706	58.04	58.28	29.724	2.981	3.628		72.7	45.4	20.2	
August	53.40	58.54	29.738	58.02	57.69	29.737	1.575	1.877	1.906	72.1	43.7	12.5	
September	49.57	53.35	29.691	54.65	55.70	29.663	2.367	2.829		64.6	40.5	21.1	
October	48.45	51.05	29.709	50.59	51.38	29.736	3.376	4.841	4.951	61.4	37.2	26.7	
November	43.96	46.15	29.396	44.58	49.41	29.400	2.172	4.755		58.2	30.5	17.6	
Decr	39.48	40.58	29.536	40.09	41.08	29.563	1.999	5.256	6.458	52.6	30	24.6	
Summer	51.71		29.703	58.54		29.742	15.799	20.132					
Winter	39.89		29.656	43.47		29.609	9.739	21.100					
Year	45.85		29.678	50.06		29.676	25.538	41.232	42.1882				

Mean Temp of Year = 47.95

Max - - - - - 77.0

Min - - - - - 21.0

Mean Barom - = 29.678

Max April 16 - - - 30.350

Min - - - - - 28.365

Rain on an English Square Mile

= 596,887,912 Gallons

Rain on 189 Days