

Solar Radiation, H.M.S. "Alert," 1875-1876.

In the observations for Solar Radiation, the date of the observation is expressed in civil time, and in that manner differs from the other Meteorological observations.

SEPTEMBER 1875.

Date and Place of Observation.			Maximum Temperature between 9.30 a.m. and 3.30 p.m.			Difference.		Clouds.		Altitude of the Sun above the South horizon to the nearest degree.
			(a.) Black bulb.	(b.) Bright bulb.	(c.) Tempe- rature in shade.	a. and b.	a. and c.	Name.	Amount.	
Floeberg Beach :			No. 38.	No. 37.	No. 421A.					
Sept. 26	-	-	+ 15° 0	7° 2	6° 0	7° 8	9° 0	st.	2	6°
" 27	-	-	23° 5	12° 2	16° 0	11° 3	7° 5	cir.-st.	1	6°
" 28	-	-	30° 0	14° 1	10° 0	15° 9	20° 0	misty	10	Occasional sunshine.
" 29	-	-	12° 0	12° 2	12° 0	—	—	st.	10	5°
" 30	-	-	21° 5	15° 1	13° 5	6° 4	8° 0	nim.	10	Occasional sunshine.

OCTOBER 1875.

Oct. 1	- - -	20.0	10.2	10.0	9.8	10.0	cum.	10	Occasional sunshine.
" 2	- - -	17.5	13.2	12.3	4.3	5.2	misty	10	4°
" 3	- - -	23.0	20.1	19.0	2.9	4.0	nim.	10	
" 4	- - -	15.0	13.6	11.0	1.4	4.0	nim.	5 to 10	
" 5	- - -	15.3	13.6	12.6	1.7	2.7	nim.	10	3°
" 6	- - -	16.3	16.4	15.0	—	1.3	nim.	10	2° 5

The Sun did not rise above the Southern horizon after the 12th October.

MARCH 1876.

Date and Place of Observation.		Maximum Temperature between 9.0 a.m. and 9.0 a.m. of the previous day.			Difference.		Clouds.		Altitude of the Sun above the South horizon to the nearest degree.
		(a.) Black bulb.	(b.) Bright bulb.	(c.) Tempe- rature in shade.	a. and b.	a. and c.	Name.	Amount.	
		No. 38.	No. 37.	No. 421A, 419A.					
Floeberg Beach :									
The Sun appeared above the South horizon on the 1st March, but the mercury in the thermometers remained frozen until the 11th.									
March 11	- - -	- 9.8	Frozen	-55.5	—	45.7	cum.	0 to 2	4°
" 12	- - -	- 6.0	Frozen	—	—	—	cum.	0 to 5	
" 13	- - -	-19.5	-24.5	-25.0	5.0	6.0	nim.	4 to 10	
" 14	- - -	—	—	—	—	—	nim.	8 to 10	5°
" 15	- - -	—	—	—	—	—	st., nim.	6 to 10	
" 16	- - -	+30.0	- 1.7	- 9.5	31.7	39.5	cum., st., nim.	2 to 10	6°
" 17	- - -	+41.0	+ 5.3	- 8.0	34.7	49.0	cum.-st.	0 to 7	
" 18	- - -	—	—	-11.0	—	—	cir.-st., st.	0 to 6	
" 19	- - -	+11.0	—	-25.0	—	36.0	st.	0 to 3	7°
" 20	- - -	+12.4	—	-18.2	—	30.6	cum.-st., st.	1 to 7	
" 21	- - -	+31.8	+17.1	-30.8	14.7	62.6	cum.-st., st.	1 to 7	8°
" 22	- - -	+35.0	-19.6	-22.6	54.6	57.6	cum.-st., cir.-st., nim.	2 to 10	
" 23	- - -	+30.0	- 7.6	-19.8	37.6	49.8	cum., cir.-st.	2 to 10	
" 24	- - -	+38.0	- 6.7	-19.5	44.7	57.5	cum., cir.	3 to 8	9°
" 25	- - -	+32.5	-16.6	-28.0	49.1	60.5	cir.-st., st.	0 to 7	
" 26	- - -	+24.0	-17.6	-26.0	41.6	50.0	cir.-st., st.	0 to 9	10°
" 27	- - -	+42.0	- 9.6	—	51.6	—	cir.-st., cum-st.	2 to 8	
" 28	- - -	+37.0	- 7.6	-17.6	44.6	54.6	cir., cum.-st., nim.	2 to 10	
" 29	- - -	—	—	—	—	—	cum.-st., nim.	4 to 10	11°
" 30	- - -	+29.0	-10.6	-22.2	39.6	51.2	cum., nim.	3 to 10	
" 31	- - -	+40.0	- 9.4	-17.0	49.4	57.0	cum., cir.-st.	0 to 4	12°