Atmospheric conditions during solar radiation measurements. Blue Hill Observatory of Harvard University

Date and time from apparent noon	Air temperature	Wind, Beaufort scale	Visibility (scale 0-10)	Skyblueness	Cloudiness and remarks
August 1935	° C.				
1; 4:34 a. m.	21.1	W 4	8	------	
3; 4:06 a. m.	17.8	NW 2	9	6	
3; 0:04 p. m.	24.2	NW 3	9	6	
4; 4:36 a. m.	20.0	NE 3	9	8	2 Acu, light haze.
4; 1:00 a. m.	22.8	NE 2	9	9	Few Acu, 1 Cu.
4; 2:30 p. m.	26.2	W 2	9	8	Few Acu, C Cu, no haze.
7; 4:52 a. m.	13.9	NW 3	8	9	4 Acu, Ci, inversion, light haze.
7; 0:38 a. m.	19.4	NE 4	9	9	3 Ci, few Acu, 1 Cu, light haze to N.
7; 2:44 p. m.	21.7	E 3	9	12	2 Ci, few Acu, few Cu, light haze to W.
8; 4:36 a. m.	17.8	NE 2	8	4	
8; 1:41 a. m.	20.6	NE 2	9	6	
8; 0:37 p. m.	20.7	NE 2	9	------	
8; 4:58 p. m.	20.6	NE 3	9	11	Few Ci, few Acu, few Cu, no haze.
9; 4:32 a. m.	17.2	N 4	8	------	Cist over sun?
9; 0:22 a. m.	22.8	NE 3	9	------	Cist.
9; 3:26 p. m.	23.4	E 3	9	4	Ci over sun.
10; 1:27 a. m.	23.9	SSW 4	8	4	Ci haze.
12; 2:18 a. m.	21.1	WSW 2	8	------	
15; 0:48 p. m.	24.8	E 3	8	6	Ci haze, Cu.
15; 4:25 p. m.	25.6	E 2	8-9	6	
16; 0:37 a. m.	28.2	E 2	7	6	4 Cu, mod. haze.
17; 4:30 a. m.	24.4	NNE 2	7	10	No clouds, dense haze.
17; 0:32 a. m.	28.8	ENE 2	8	6	2 Cu, mod. haze.
17; 3:00 p. m.	30.0	SE 2	8	4	1 Cu, Frcu, mod. haze.
18; 3:58 a. m.	23.9	NW 2	7-8	10	Few Ci, light haze.
18; 2:34 p. m.	31.7	ESE 3	8	8	3 Ci, few Cu, light haze.
19; 2:05 a. m.	23.9	WSW 2	8	8	1 Ci, light haze.
19; 1:53 a. m.	25.0	SSW 0	8	8	Few Ci, light haze.
19; 1:29 p. m.	26.7	SSW 3	9	8	Few Ci, light haze.
19; 1:25 p. m.	30.0	S 3	8-9	8	0 clouds, light haze.
23; 1:45 p. m.	19.4	SSW 5	9	8	2 Cu.
23; 3:17 p. m.	19.4	NE 4	9	10	2 Cu.
24; 2:33 a. m.	15.6	NW 3	10	10	1 Stcu.
24; 2:00 a. m.	16.1	NW 4	10	10	Cu.
24; 0:59 p. m.	18.9	NNW 4	10	10	1 Cu.
25; 4:27 p. m.	20.0	NW 6	10	------	
26; 0:17 a. m.	23.3	WSW 4	9	12	Few Acu, light haze on horizon.
26; 2:45 p. m.	25.0	WSW 5	9	12	1 Acu, light haze.
29; 4:21 a. m.	15.0	WNW 2	9	10	1 Ci, light water haze.
29; 2:07 a. m.	18.3	WNW 3	9	10	Light water haze.
31; 1:58 p. m.	19.4	W 3	9	7	7 Cu, light haze.

PROVISIONAL SUN-SPOT RELATIVE NUMBERS FOR AUGUST 1935

[Dependent alone on observations at Zurich and its station at Arosa]

[Data furnished through the courtesy of Prof. W. Brunner, Eidgen Sternwarte, Zurich, Switzerland]

August 1935	Relative numbers	August 1935	Relative numbers	August 1935	Relative numbers
1	10	11	29	21	55
2	11	12	38	22	39
3	------	13	------	23	34
4	*ad* 23	14	*d* --	24	*d* 35
5	18	15	29	25	------
6	28	16	26	26	29
7	43	17	*Wc* 20	27	*a* 13
8	49	18	29	28	25
9	26	19	23	29	*d* 28
10	*a* 33	20	*Mca* 52	30	24
				31	*d* 37

Mean, 27 days=29.9.

a=Passage of an average-sized group through the central meridian.
b=Passage of a large group or spot through the central meridian.
c=New formation of a center of activity: E, on the eastern part of the sun's disk; W, on the western part; M, in the central circle zone.
d=Entrance of a large or average-sized center of activity on the east limb.

POSITIONS AND AREAS OF SUN SPOTS

[Communicated by Capt. J. F. Hellweg, U. S. Navy, Superintendent U. S. Naval Observatory. Data furnished by the U. S. Naval Observatory in cooperation with Harvard and Mount Wilson Observatories. The difference in longitude is measure from the central meridian, positive west. The north latitude is positive. Areas are corrected for foreshortening and are expressed in millionths of the sun's visible hemisphere. The total area for each day includes spots and groups]

Date	Eastern standard time		Heliographic: Diff. in longitude	Heliographic: Longitude	Heliographic: Latitude	Area: Spot	Area: Group	Total area for each day	Observatory
1935	*h.*	*m.*	°	°	°				
Aug. 1	13	20	−45.0	186.4	−19.0	------	46	------	U. S. Naval.
			−39.0	192.4	−16.5	62	------	108	
Aug. 2	14	14	−25.0	192.7	−17.0	46	------	------	Do.
			−10.5	207.2	−24.0	------	23	69	
Aug. 3	11	5	−11.5	194.7	−17.0	46	------	------	Do.
			+1.0	207.2	−23.0	------	31	77	
Aug. 4	12	0	−75.0	117.5	−18.0	127	------	------	Mount Wilson.
			+2.0	194.5	−16.0	------	58	------	
			+16.0	208.5	−24.0	------	10	195	
Aug. 5	11	3	−60.0	119.8	−19.5	123	------	------	U. S. Naval.
			+15.5	195.3	−17.0	------	39	162	
Aug. 6	11	2	−68.0	98.6	+28.0	------	69	------	Do.
			−48.5	118.1	−19.0	------	123	------	
			+28.5	195.1	−17.5	------	62	254	
Aug. 7	9	5	−57.0	97.5	+25.0	------	18	------	Mount Wilson.
			−55.0	99.5	−29.0	------	25	------	
			−36.0	118.5	−19.0	------	165	------	
			+44.0	198.5	−17.0	------	50	258	
Aug. 8	8	50	−42.0	99.4	−28.0	------	50	------	Do.
			−39.0	102.4	+26.0	4	------	------	
			−23.0	118.4	−19.0	------	120	------	
			+47.0	188.4	+26.0	------	9	------	
			+56.0	197.4	−17.0	------	15	198	
Aug. 9	11	54	−27.0	99.4	−28.0	------	31	------	U. S. Naval.
			−9.0	117.4	−19.0	62	------	93	
Aug. 10	11	14	−13.5	100.1	−29.0	23	------	------	Do.
			−12.0	101.6	−21.0	------	31	------	
			+3.5	117.1	−19.0	62	------	116	
Aug. 11	12	30	−48.0	51.6	−18.0	------	6	------	Mount Wilson.
			+0.5	100.1	−28.0	5	------	------	
			+1.0	100.6	−22.0	------	9	------	
			+4.0	103.6	+24.0	4	------	------	
			+18.0	117.6	−19.0	89	------	113	
Aug. 12	10	59	−36.0	51.3	−18.5	------	77	------	U. S. Naval.
			+11.5	98.8	−28.0	15	------	------	
			+15.0	102.3	−20.5	------	46	------	
			+29.5	116.8	−19.5	108	------	246	
Aug. 13	11	6	+42.0	116.0	−19.5	------	93	93	Do.
Aug. 14	10	55	−80.0	340.9	+19.0	62	------	------	Do.
			+42.0	102.9	−20.0	8	------	------	
			+58.0	118.9	−18.5	------	139	------	
			+81.0	141.9	+22.0	------	39	248	
Aug. 15	11	5	−68.0	339.6	+19.0	139	------	------	Do.
			+68.0	115.6	−19.5	46	------	185	
Aug. 16	12	25	−55.0	338.6	+19.0	------	174	------	Mount Wilson.
			−41.0	352.6	+29.0	------	5	------	
			+17.0	50.6	−18.0	1	------	------	
			+82.0	115.6	−18.0	60	------	240	
Aug. 17	11	3	−48.0	333.1	+19.5	------	8	------	U. S. Naval.
			−41.0	340.1	+19.5	139	------	------	
			+28.5	49.6	−19.0	------	62	209	
Aug. 18	10	48	−29.0	339.1	+19.0	123	------	------	Do.
			+42.0	50.1	−18.5	------	108	231	
Aug. 19	11	0	−15.0	339.7	+19.0	108	------	------	Do.
			+57.0	51.7	−18.5	------	201	309	
Aug. 20	12	45	−0.5	340.1	+19.0	166	------	------	Mount Wilson.
			+16.0	356.1	+28.0	------	428	------	
			+75.0	55.6	−18.0	------	126	720	
Aug. 21	12	38	+12.0	339.4	+18.5	123	------	------	U. S. Naval.
			+28.0	355.4	+28.5	------	525	648	
Aug. 22	14	41	+27.0	340.1	+18.5	123	------	------	Do.
			+43.0	356.1	+28.0	------	648	771	
Aug. 23	11	4	+39.0	340.8	+18.5	93	------	------	Do.
			+55.0	356.8	+28.0	------	710	803	
Aug. 24	11	12	−82.0	206.6	+30.5	154	------	------	Do.
			+51.0	339.6	+18.5	93	------	------	
			+70.0	358.6	+28.0	------	463	710	
Aug. 25	13	53	−66.0	208.0	+29.5	350	------	------	Harvard.
			+67.5	341.5	+19.0	130	------	------	
			+77.0	351.0	+29.5	240	------	720	
Aug. 26	12	45	−56.0	205.3	+30.0	------	339	------	Mount Wilson.
			−4.0	257.3	−28.0	2	------	------	
			+80.0	341.3	+17.0	16	------	357	
Aug. 27	14	59	−42.5	204.3	+30.5	216	------	216	U. S. Naval.
Aug. 28	14	32	−88.0	145.9	+20.5	93	------	------	Do.
			−30.0	203.9	+30.5	------	278	------	
			+61.0	294.9	−21.5	------	46	------	
			+78.0	311.9	−29.0	31	------	448	
Aug. 29	11	40	−76.0	146.2	+21.0	362	------	------	Mount Wilson.
			−18.0	204.2	+31.0	------	194	------	
			+79.0	301.2	−22.0	3	------	559	
Aug 30	13	44	−60.0	147.9	+20.5	278	------	------	U. S. Naval.
			−7.0	200.9	+30.0	------	139	417	
Aug. 31	11	3	−72.0	124.2	+27.0	62	------	------	Do.
			−50.0	146.2	+20.5	247	------	------	
			+6.5	202.7	+30.0	------	123	432	
Mean daily area for 31 days	------	------	------	------	------	------	------	329	