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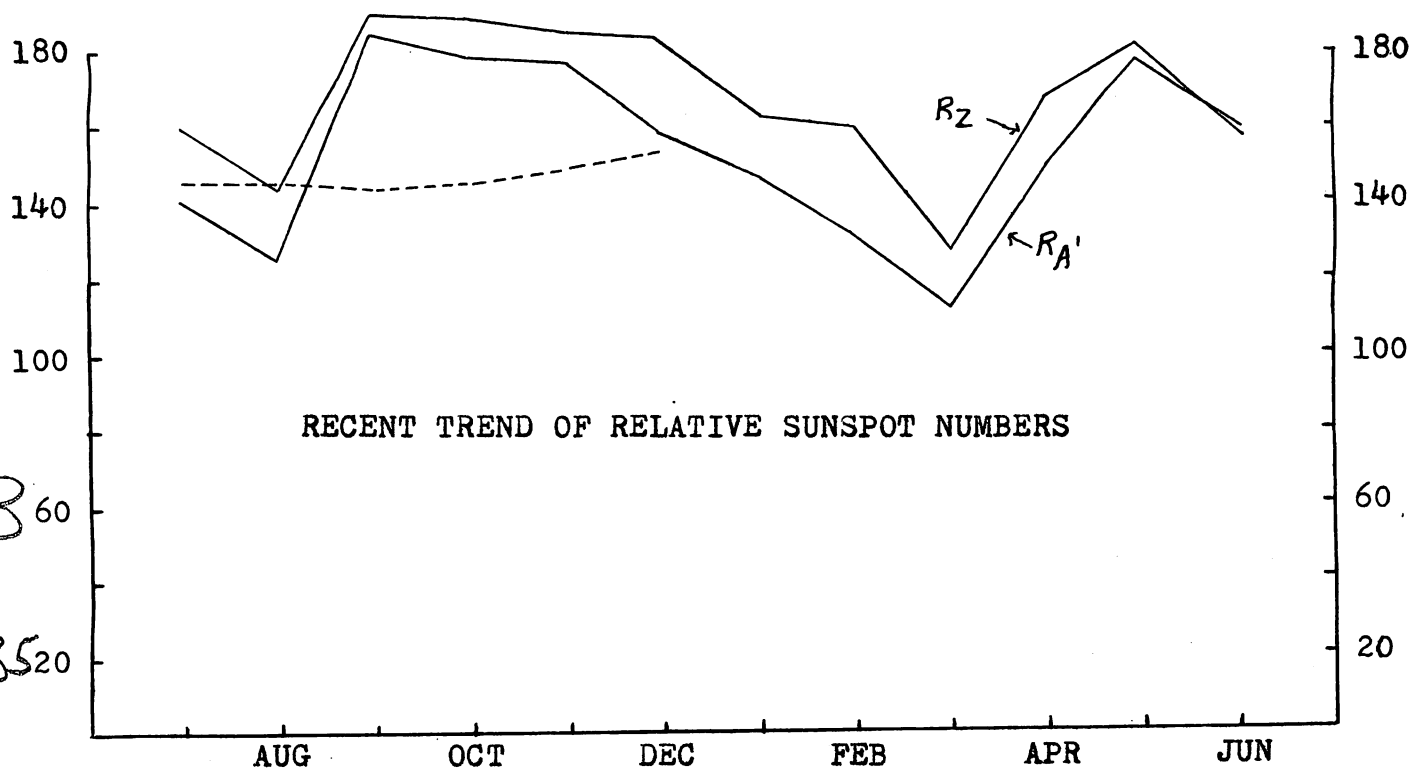
SOLAR ACTIVITY DURING JUNE

Sunspot activity continued at a high level during June. The monthly mean of the American sunspot numbers fell to 158.8 but was nevertheless high enough for the 12-month smoothed mean to continue its upward trend reaching 151.9 in December 1979.

Because of the increased use and importance of the American sunspot numbers, it is necessary to compute them more promptly than in the past. Sunspot observers should therefore mail their reports as soon as possible so they do not arrive too late to be used.

This month the Solar Bulletin resumes publication of a list of sudden ionospheric disturbances recorded by its indirect flare patrol group. The list this month contains 52 events. The publication of of this list is possible because of the efforts of our new assistant chart analyzer, Bruce Wingate, A-32, who helped Jim Ruth, A-48, do the analysis. This analysis did not include all charts received but the number used will increase each month until eventually all are used.

The Solar Division notes with regret the loss of sunspot observer, Alberto Cortes, of Valparaiso, Chile, who died on the 24th of March 1980.



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SUDDEN IONOSPHERIC DISTURBANCES RECORDED DURING JUNE 1980

AMERICAN (R_A) AND ZURICH (R_Z) RELATIVE SUNSPOT NUMBERS FOR JUNE 1980

Day	R _A	R _Z
1	147	152
2	137	124
3	145	128
4	155	141
5	153	150
6	136	131
7	129	149
8	144	156
9	150	164
10	161	168
11	164	172
12	174	166
13	168	161
14	148	136
15	128	129
16	122	134
17	149	129
18	153	146
19	161	166
20	187	179
21	206	191
22	207	196
23	203	190
24	216	193
25	196	179
26	177	166
27	177	185
28	165	188
29	112	149
30	94	97
Mean	158.8	157.2

DAY	MAX	SEA	SES	DEF	FREQ	OBSERVERS
1	1525	1	4	21.4	A-48,19,1,31	
1	1655	2	3	73.6	A-19,48,31	
1	1941	2	5	73.6	A-19,48,1,31	
2	1336	1	1	21.4	A-48,19,31	
2	2146	2	2	73.6	A-19,48,31	
3	1211	2	4	73.6	A-19,31	
3	1417	2	4	73.6	A-19,31	
3	2139	2	5	21.4	A-48,19,1,31	
4	1746	1	2	21.4	A-48,19,31	
4	1811	2	2	73.6	A-19,48,31	
4	2303	1	2	73.6	A-19,48,1,31	
5	1243	2	2	21.4	A-48,19	
5	1827	1	2	73.6	A-19,48	
5	1431	3	5	21.4	A-48,19,31	
6	1600	1	1	73.6	A-19,48,1,31	
6	1727	2	3	21.4	A-48,19,31	
6	1834	2	3	73.6	A-19,48,1,31	
6	2135	2	2	21.4	A-48,19,31	
7	1256	3	3	21.4	A-48,19,1	
8	1707	2	5	73.6	A-19,48,1,31	
12	1304	1	1	73.6	A-19,48	
13	1423	2	3	73.6	A-19,48,31	
14	1511	3	5	21.4	A-48,19,1,31	
14	1830	2	2	21.4	A-48,19,31	
15	1327	2	4	73.6	A-19,48	
19	1844	1	3	21.4	A-48,19,31	

DAY	MAX	SEA	SES	DEF	FREQ	OBSERVERS
19	1900	2	3	21.4	A-48,19,1,31	
19	2011	2	4	73.6	A-19,48,1,31	
20	1603	2	1	73.6	A-19,48,31	
21	1746	2	2	73.6	A-19,48,1,31	
22	1333	2	3	73.6	A-19,48,31	
22	1912	2	4	21.4	A-48,19,1,31	
23	1345	2	5	73.6	A-19,48	
23	1522	1	3	73.6	A-19,48,31	
24	1304	1	3	73.6	A-19	
24	1344	2	3	73.6	A-19,31	
24	1528	1	5	73.6	A-19,31	
24	2005	1	5	21.4	A-48,19,1,31	
25	1243	1	4	21.4	A-48	
25	1313	1	3	21.4	A-48	
25	1555	2	5	21.4	A-48,19,1,31	
26	1440	1	5	21.4	A-48,19,31	
27	1351	1	3	21.4	A-48	
27	1620	2	2	73.6	A-19,48,1,31	
28	1333	2	4	21.4	A-48	
28	1425	1	5	21.4	A-48,31	
29	1804	1	5	21.4	A-48,1,31	
29	1824	2	5	21.4	A-48,31	
30	1339	1	5	73.6	A-19,48,1,31	
30	1535	2	5	73.6	A-19,48,1,31	
30	1830	2	5	73.6	A-19,48,1,31	
30	1951	2	5	21.4	A-19,48,1,31	

