

# Solar Bulletin

Publisher:

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS — SOLAR DIVISION  
540 NORTH CENTRAL AVENUE  
RAMSEY, NEW JERSEY, U.S.A.



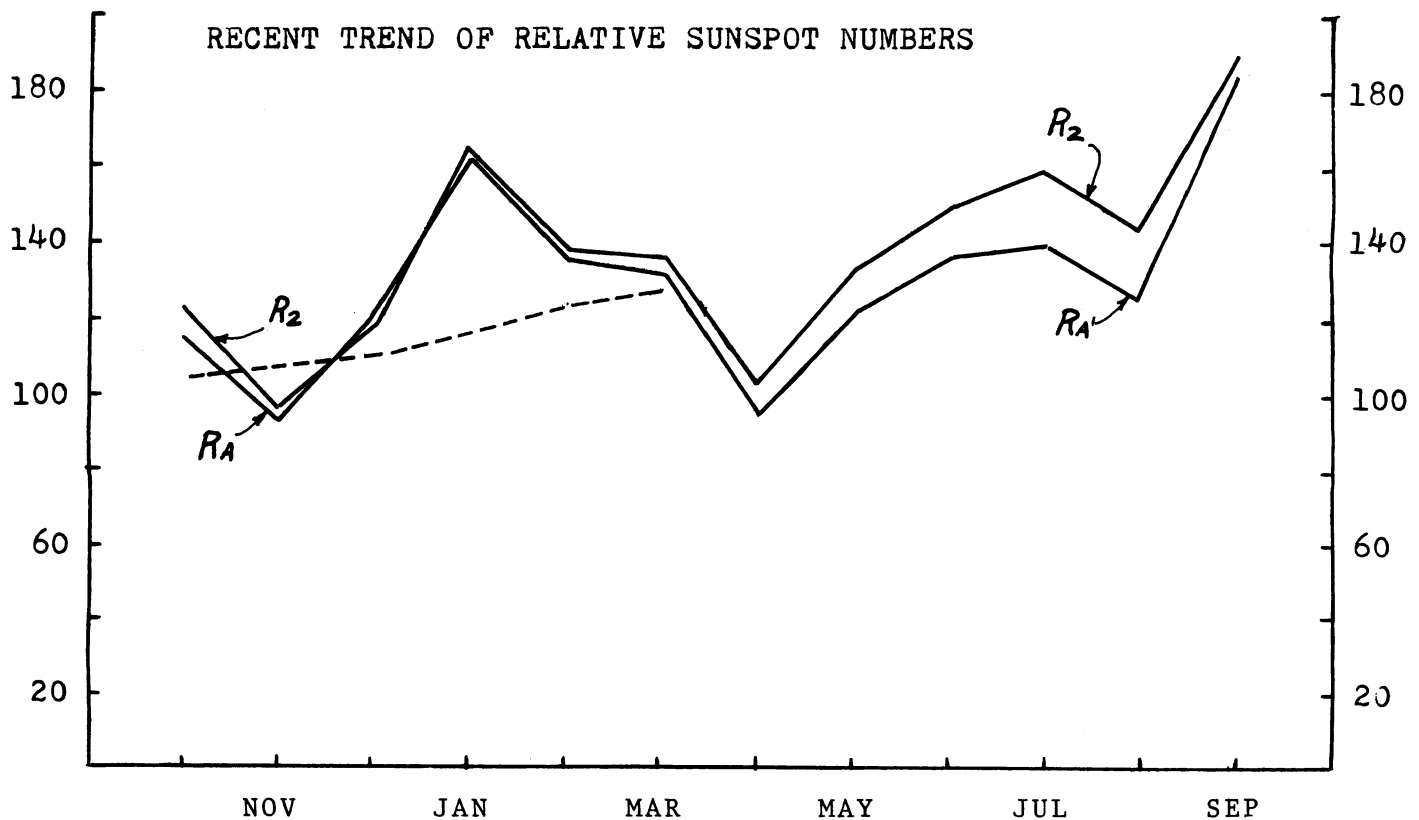
Volume 35 Number 9

September 1979

## SOLAR ACTIVITY DURING SEPTEMBER 1979

Sunspot activity rose to the highest level this cycle. The September monthly mean of 184.0 was well above the previous high month which was last January when it reached 164.4. This new high monthly mean pulled the 12-month smoothed mean up to 128.3 for March.

Many ionospheric disturbances accompanied the high sunspot counts of September. A particularly interesting day was the 19th and all six of the charts reproduced are of this day. Eight separate events can be found in the charts. The last to occur was a major flare starting at 2300 UT. This event is recorded on the three charts in the middle of the page but the two bottom do not show it because they are already into their sunset patterns due to recording easterly signal sources. Notice however, that the second chart from the bottom shows a sudden drop in its nighttime trace at 0100 UT. This could be caused by high-speed protons from the major flare. Note that a similar drop occurs in the 17.8 kHz trace at the top of the page. This 17.8kHz trace was also well into nighttime propagation at 0100 UT.



AMERICAN (R<sub>A</sub>) AND ZURICH (R<sub>Z</sub>) RELATIVE SUNSPOT NUMBERS FOR SEPTEMBER 1979

Day	R <sub>A</sub>	R <sub>Z</sub>
1	134	165
2	119	141
3	161	148
4	160	157
5	139	139
6	137	139
7	163	170
8	159	192
9	153	190
10	165	177
11	163	167
12	152	156
13	164	175
14	172	186
15	168	177
16	165	170
17	137	155
18	160	177
19	174	195
20	166	191
21	184	184
22	208	178
23	275	219
24	276	236
25	277	252
26	261	261
27	230	256
28	244	239
29	217	235
30	238	233
Mean	184.0	188.7

