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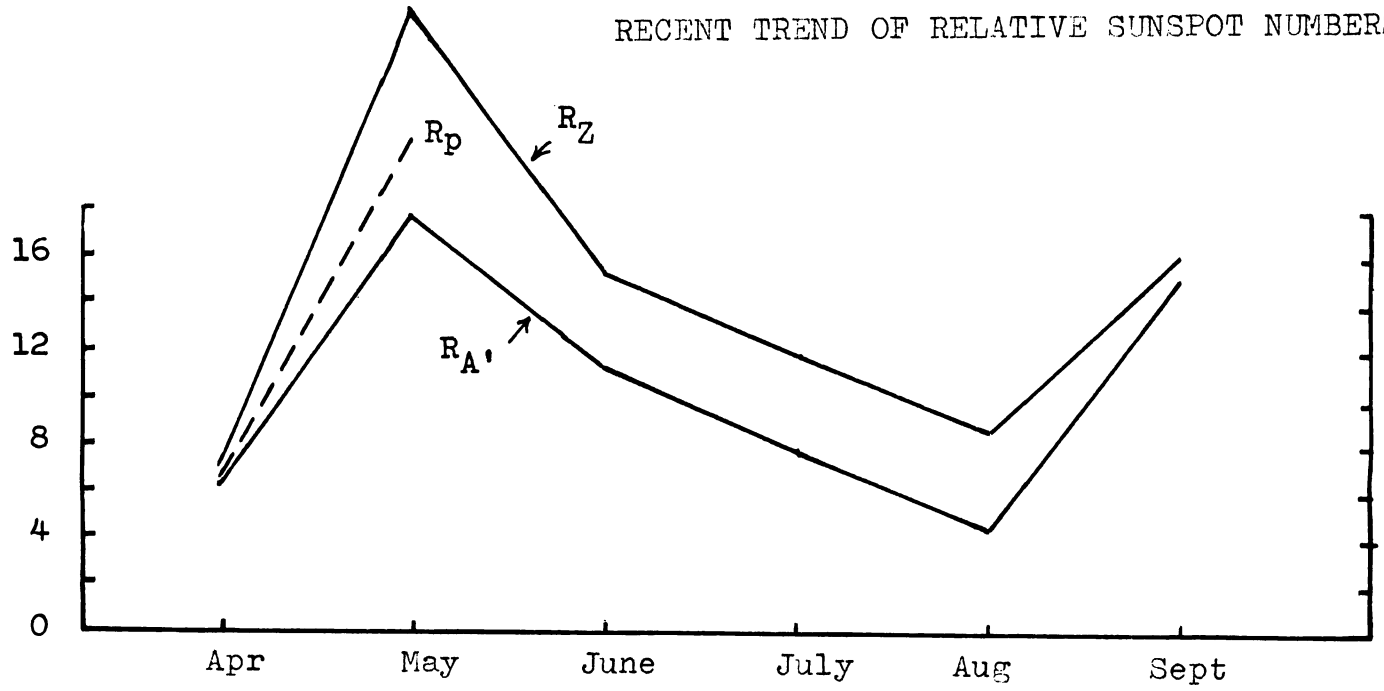
SOLAR ACTIVITY DURING SEPTEMBER

Solar activity was reported to be associated with a prominent northern new-cycle group that was visible from 2 through 13 September. Early reports received from Solar Division observers do not indicate any sudden ionospheric disturbances (SID) during this period, however, SID's were observed to be associated with the large complex group first seen near the east limb on the 26th. This group, which Thomas Cragg classified magnetically as a beta-gamma group, seemed to reach its maximum development on 30 September. Reproductions of SID recordings for that day appear on page 2. One of these shows a sudden enhancement of signal (SES) made by recording the signal strength of the very-low- frequency station NPG at Jim Creek, Washington, U.S.A. The other was made by recording very-low-frequency atmospheric noise on 27kc and it shows a sudden enhancement of atmospherics (SEA) at the same time as the SES (1930 UT). The activity associated with this large group continued during the first few days of October producing other SID's.

Sunspot activity showed a marked increase from the low level of August. The monthly mean of the American Sunspot Number rose from 4.5 to 15.0. There were only 3 spotless days compared to 16 last month. 7 groups with lifetimes greater than 2 days were observed whereas only 3 such groups were seen in August.

RECENT TREND OF RELATIVE SUNSPOT NUMBERS



($R_{A'}$) SEPTEMBER 1965

mean = 15.0

1	15	16	10
2	17	17	5
3	19	18	4
4	19	19	2
5	16	20	1
6	21	21	0
7	21	22	0
8	19	23	14
9	19	24	14
10	18	25	12
11	17	26	15
12	21	27	13
13	18	28	21
14	12	29	35
15	11	30	41

(R_Z) SEPTEMBER 1965

mean = 16.3

1	17	16	10
2	20	17	8
3	21	18	9
4	22	19	7
5	22	20	0
6	19	21	0
7	23	22	0
8	22	23	11
9	18	24	17
10	15	25	13
11	19	26	17
12	17	27	18
13	17	28	23
14	8	29	37
15	8	30	52

Recordings showing SID's caused by flares that occurred in the large sunspot group that formed at the end of September.