

Solar Bulletin

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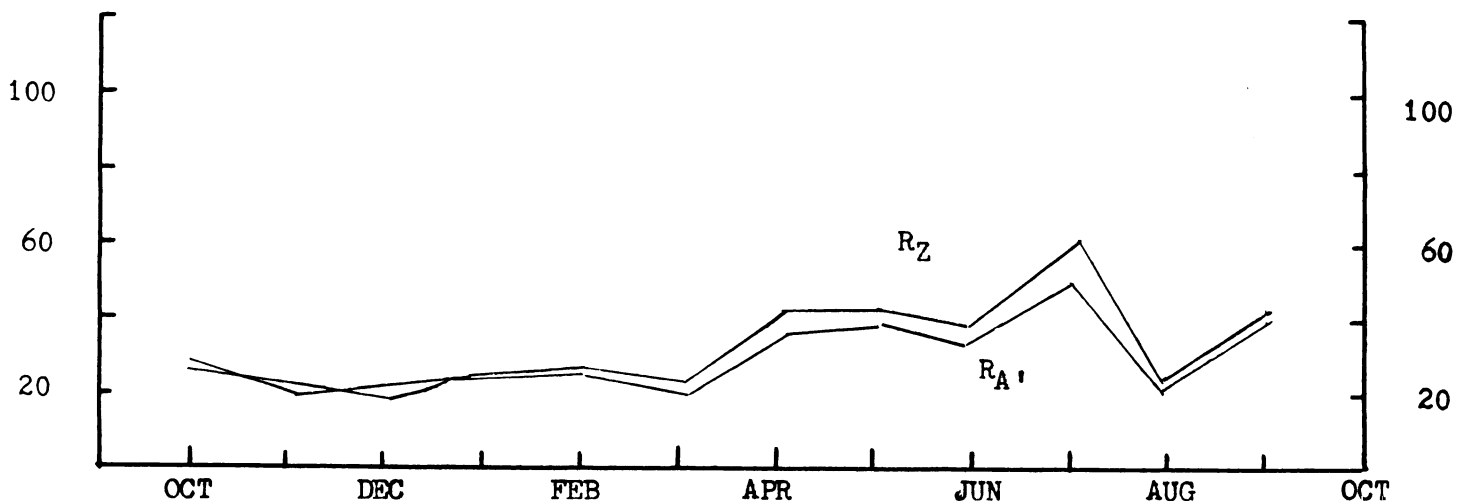
SOLAR ACTIVITY DURING SEPTEMBER

Sun spot activity continued at about the level of recent months with the mean of the American sun spot numbers at 39.6. On 8 September a large spot rotated over the northeast limb which was to become the major group of the month. Magnetically this one was of the pure gamma-type which are major flare producers. Although this one was visible to the unaided eye from the 11th through the 18th it produced far fewer ionospheric disturbances than might have been expected. Most of the ionospheric disturbances of September did occur during the passage of this group, however.

Some are reproduced on page 2 including one made by Phyllis Richmond, A-28, using a receiver tuned to the new transmitter on 21.4 khz.

Toward the end of the month ionospheric disturbances again began to occur. This time apparently associated with a spot that appeared at the east limb on 27 September and seemed to be taking on gamma-type characteristics by the first of October. Two charts reproduced on page 2 show one of these events which reached maximum at 1705 UT on the 29th. One shows an inverted SES and the other normal.

RECENT TREND OF RELATIVE SUNSPOT NUMBERS



SUDDEN IONOSPHERIC DISTURBANCES RECORDED DURING SEPTEMBER 1974

AMERICAN (R_A) AND ZURICH (R_Z) RELATIVE SUNSPOT NUMBERS FOR SEPTEMBER 1974

Day	R_A	R_Z
1	10	8
2	10	8
3	15	16
4	32	41
5	37	40
6	40	50
7	44	44
8	30	32
9	58	63
10	77	80
11	80	83
12	88	88
13	87	82
14	65	67
15	60	67
16	68	70
17	75	73
18	70	68
19	55	58
20	29	34
21	12	13
22	0	0
23	0	7
24	4	11
25	6	11
26	10	13
27	15	19
28	18	23
29	38	38
30	55	60
Means	39.6	42.2

Day	Max.	SEA	SES	Def.	Observers	Day	Max.	SEA	SES	Def.	Observers
8	21:28	1	5		A1,19,29,30,31,37	13	15:36	3	5		A1,19,28,29,31,32,36,37
9	17:31	1-	1+	5	A1,19,26,29,30,31,36,37	14	12:35	1	3		A32
9	21:36	1-	2		A1,19,30,31,37	19	22:45	2	4		A4,19,31,37
10	13:20	1	2		A32	22	18:19	1	4		A1,19,30,31,37
10	21:48	1+	3	5	A1,19,26,28,29,30,31,32,36,37	25	21:23	1	2		A1,4,19,29,31,36,37
						29	17:05	1	5		A1,4,19,28,29,30,31,36,37

