

Solar Bulletin

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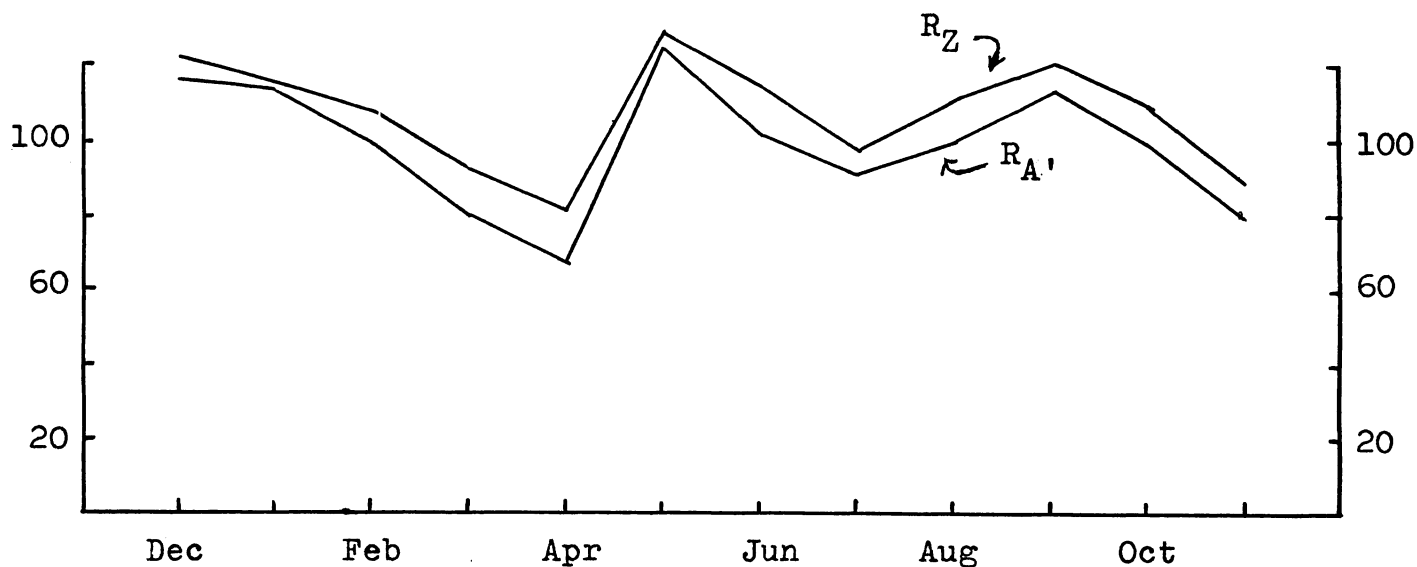
November 1968

SUNSPOT ACTIVITY DURING NOVEMBER

Seven ionospheric disturbances due to flares were recorded by Solar Division observers during November. Most of these were of moderate intensity. A complete listing of these events appears on page two. None of the recordings of November's disturbances were outstanding so two additional recordings from the previous month, October, are reproduced at the bottom of page two. These two SEA recordings were made by Walter Scott Houston, A-8, at Haddam, Conn.

Sunspot activity continued to decline with the monthly mean of the American sunspot numbers down to 79.0 compared to 99.4 in October. At the beginning of the month the great gamma group of the latter part of October was approaching the west limb and was last seen on the 3rd. By the 5th, another interesting came over the northeast limb and had begun to show gamma characteristics by the 7th. This group grew large enough to be seen by the unaided eye on the 8th and continued to show gamma characteristics until west limb passage on the 17th. The following day saw the return of the great group that had gone over the west limb on the 3rd and by now it resembled two groups due to its spread in latitude. Several additional groups formed nearby to cause additional confusion for many observers as they tried to divide the region into groups.

RECENT TREND OF RELATIVE SUNSPOT NUMBERS



AMERICAN (R_A') AND ZURICH (R_Z) RELATIVE SUNSPOT NUMBERS, NOVEMBER 1968

day R_A' R_Z DAY R_A' R_Z

1	108	85	16	84	79
2	88	70	17	95	74
3	80	76	18	63	69
4	64	93	19	73	76
5	102	111	20	80	92
6	113	97	21	61	90
7	82	92	22	50	85
8	92	89	23	59	76
9	60	118	24	70	62
10	108	131	25	79	80
11	110	113	26	84	94
12	67	94	27	72	94
13	65	94	28	59	72
14	82	89	29	53	75
15	99	84	30	67	95

November mean R_A' = 79.0

November mean R_Z = 88.3

SUDDEN IONOSPHERIC DISTURBANCES RECORDED DURING NOVEMBER

DAY MAX. SEA SES DEF. OBSERVERS DAY MAX. SEA SES DEF. OBSERVERS

2	0954	1	2	A-17	4	0518	1+	4	A-17
2	1523	2+	2	A-17	4	1815	1+	1	A-6
3	1240	3	1+	A-17,1	23	1324	1+	4	A-1

A-8, Haddam, Connecticut
12 October 1968

A-8, Haddam, Connecticut
23 October 1968

