

# Solar Bulletin

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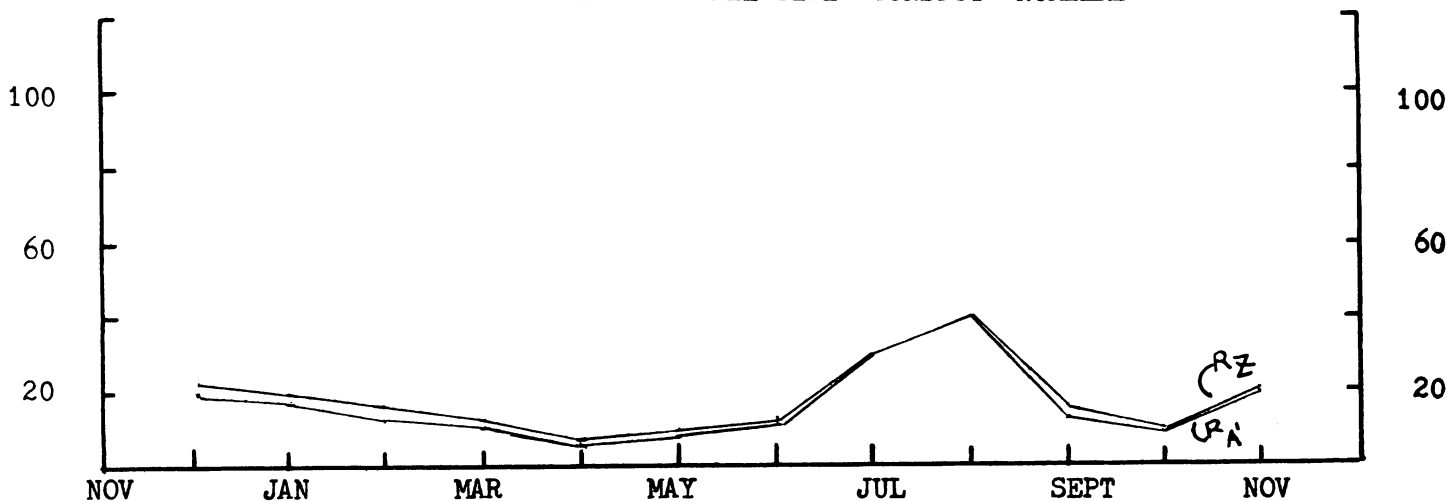
NOVEMBER 1975

## SUNSPOT ACTIVITY FOR NOVEMBER

Sunspot activity increased considerably during November. The mean of the American Sunspot numbers rose to 18.8 from 8.1 in October. There were six spotless days and all of the spots were old-cycle. The most active group this month came over the south east limb on the 13th. This group showed beta-gamma characteristics on the sixteenth and seventeenth.

Seven Ionospheric disturbances were found in the charts of twelve observers who observed during Nov. Recordings of two of these events on the sixteenth are reproduced on page two. The upper chart shows the first of them inverted while the chart beneath it shows only the first of them, which was the stronger of the two, but not the second. This is a good example of the variation in sensitivity over various transmission paths that is often found. The third chart is a dual trace and it recorded both events on both frequencies.

## RECENT TREND OF RELATIVE SUNSPOT NUMBERS



SUDDEN IONOSPHERIC DISTURBANCES RECORDED DURING NOVEMBER 1975

AMERICAN ( $R_A$ ) And ZURICH

( $R_Z$ ) RELATIVE SUNSPOT

NUMBERS FOR NOVEMBER 1975

Day	$R_A$	$R_Z$
1.	0	0
2.	0	0
3.	4	7
4.	22	18
5.	22	22
6.	29	27
7.	37	30
8.	30	30
9.	24	30
10.	18	22
11.	17	30
12.	19	24
13.	27	20
14.	31	28
15.	27	27
16.	33	30
17.	34	32
18.	34	37
19.	39	31
20.	37	36
21.	31	36
22.	16	26
23.	12	12
24.	11	10
25.	9	8
26.	2	7
27.	0	0
28.	0	0
29.	0	0
30.	0	0
Means	18.8	19.3

Day	Max.	SEA	SES	Def.	Observers
5	1906		1	4	A1,19,26,29,31,34,37
9	1825		1	2	A1,4,19,29,31
10	2015		1	4	A1,4,19,31,37
12	1623		1	2	A4,31,37
12	1700		1-	1	A4,29,31,37
16	1502		1	5	A1,19,26,28,29,31,34
16	2020		1	5	A19,31,37

Charts from the following observers were received and analyzed:

A- 1, 4, 19, 26, 28, 29, 31, 32, 34, 36, 37, 40

