

# Solar Bulletin

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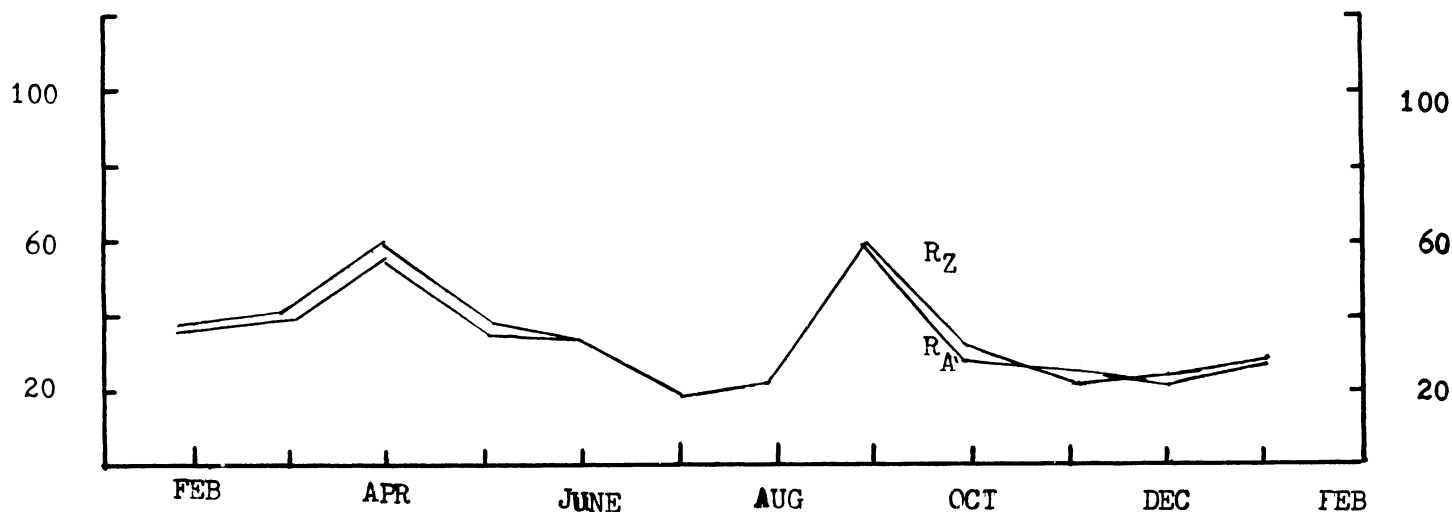
JANUARY 1974

## SOLAR ACTIVITY DURING JANUARY

Most of January's sunspot activity occurred during the middle of the month. This was preceded by a spotless period beginning late on the 5th and lasting into the 7th. The last seven days of the month were also spotless much of the time although small spots were present at times. The mean of the American sunspot numbers rose to 27.4 from 20.5 last month.

Ionospheric disturbances during January were all small ones with the most widely recorded event occurring on the 21st. Two recordings of this event starting at 2050 UT appear on page two. At the bottom of the page are reproduced a pair of recordings of four events that were not widely recorded however these do seem to be true ionospheric disturbances based on the fact that they are recorded as enhancements of the 34.5 kHz signal while the intensity of the 60.0 kHz signal is diminished. The second event starting at 1809 UT does not show on the 60.0 kHz trace although it was recorded by another observer. Recording the signal strength of two signals that respond in opposite sense like this is an excellent way to detect ionospheric disturbances with great confidence at a single location.

## RECENT TREND OF RELATIVE SUNSPOT NUMBERS



AMERICAN (R<sub>A</sub>) AND ZURICH

SUDDEN IONOSPHERIC DISTURBANCES RECORDED DURING JANUARY 1974

(R<sub>Z</sub>) RELATIVE SUNSPOT

DAY MAX SEA SES DEF OBSERVERS

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NUMBERS FOR JANUARY 1974

21 2056 2- 5 A1,19,26,30,37,31  
 26 1700 1 3 A31  
 26 1809 1 2 A31,37

26 2055 2- A31,37  
 26 2252 2 A31,37

Day	R <sub>A</sub>	R <sub>Z</sub>
1	3	18
2	16	15
3	14	13
4	12	12
5	5	8
6	0	0
7	7	0
8	23	29
9	31	36
10	41	44
11	48	49
12	53	60
13	47	45
14	70	74
15	75	77
16	67	64
17	61	65
18	64	52
19	55	58
20	53	49
21	30	37
22	35	36
23	26	28
24	8	16
25	0	0
26	1	8
27	0	0
28	1	8
29	1	7
30	2	0
31	1	0
Means	27.4	29.3

