

# Solar Bulletin

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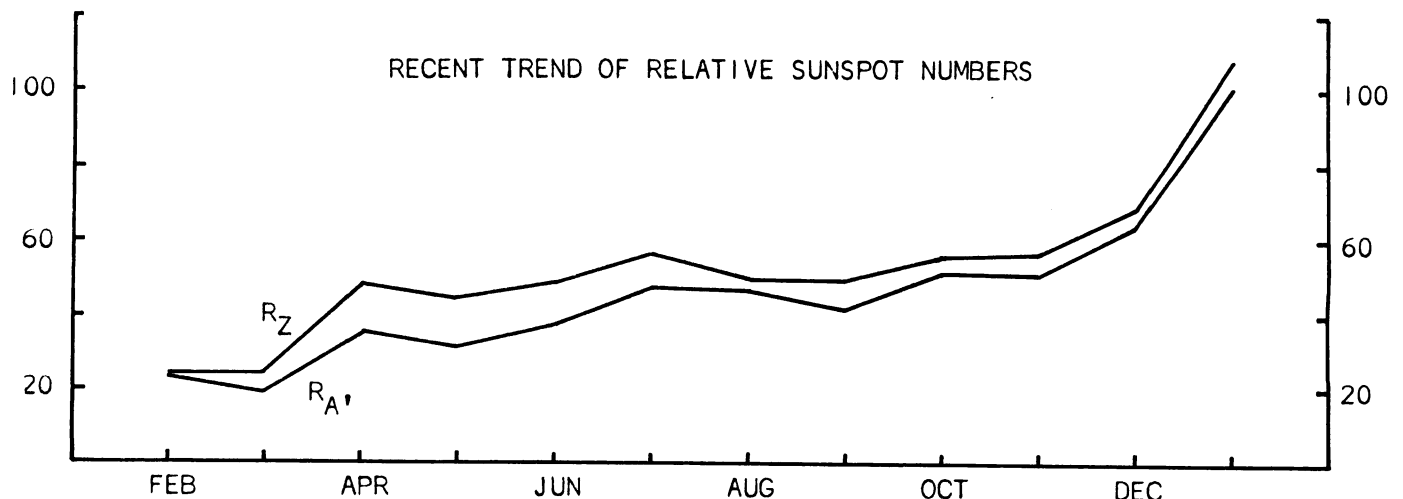
January 1967

## SOLAR ACTIVITY DURING JANUARY

Solar activity increased sharply early in the month and remained at a high level for most of the month. Numerous sudden ionospheric disturbances were recorded by members of the Solar Division's indirect flare patrol. The beginning of a year during which substantially increased solar activity can be expected was signalled by an intense sudden ionospheric disturbance starting at 0652 UT on January 1. A graph of the corresponding Sudden Enhancement of Atmospherics, as recorded at Durban, South Africa by a member of the Solar Division's indirect flare patrol, is shown on page 2.

Sunspot activity increased to a high level early in the month and, after a short decline during the middle of the month, daily American relative sunspot numbers as high as 150 were recorded. The monthly mean of the American relative sunspot numbers increased sharply to 101.4 for January, as compared with 64.3 for December. Sunspot activity in the southern hemisphere of the sun continued to increase, with no spotless days in the southern hemisphere for the month of January, as compared with 10 such days in December.

Determination of the total number of groups seen on the solar disc during the month of January was complicated by the presence of a large and complicated congeries of spots which crossed the central meridian on the 25th. On that day, Mr. Thomas A. Cragg reported it as two groups, with one group abnormally inclined at a high angle to the equator. Polarity measures at Mount Wilson indicated that this complex collection of spots could be classified either as two groups - or as a single group with unusually widely scattered latitude distribution. If the latter classification is adopted, then the number of groups on the disc as a whole with lifetimes greater than 2 days would be 19.



MAR 15 1967

(RA') January 1967

Mean = 101.4

1	78
2	75
3	130
4	126
5	145
6	142
7	117
8	90
9	96
10	89
11	88
12	78
13	101
14	72
15	46
16	53
17	54
18	68
19	77
20	102
21	130
22	119
23	150
24	128
25	115
26	149
27	104
28	89
29	106
30	114
31	112

(Rz) January 1967

Mean = 108.5

1	60
2	93
3	124
4	148
5	150
6	148
7	134
8	116
9	111
10	111
11	104
12	90
13	86
14	85
15	56
16	56
17	59
18	72
19	82
20	82
21	102
22	134
23	152
24	122
25	133
26	136
27	130
28	125
29	122
30	132
31	108

