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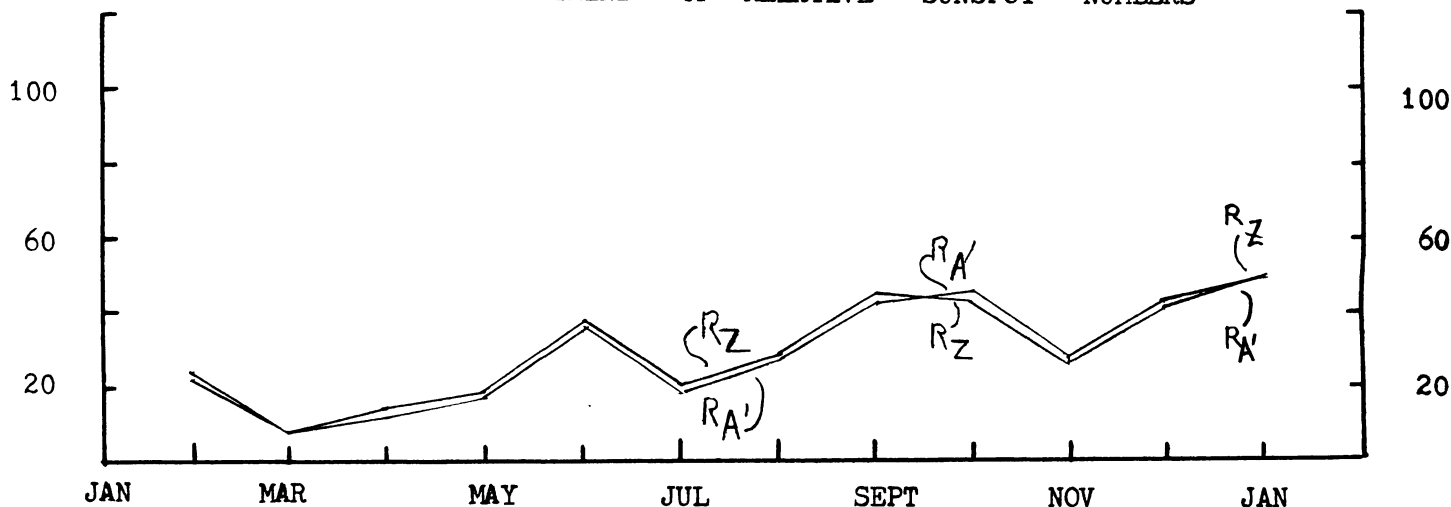
JANUARY 1978

SUNSPOT ACTIVITY FOR JANUARY

Sunspot activity increased during January to start the new year off with a monthly mean of 48.8 the highest it has reached so far on the upswing of the new sunspot cycle. High means during 1977 occurred during October and December with means of 45.5 and 42.8 respectively. Despite the high level of activity during January the sun almost became spotless on the nineteenth and twentieth when only one small A-type sunspot group was visible.

Only a modest number of ionospheric disturbances were recorded by the nine A.A.V.S.O. observers who sent charts for analysis. Six events were found. Two occurred on the eighth and one each on the first, second, ninth and twenty-seventh. Charts are reproduced on page-two showing disturbances that occurred on three of these days.

RECENT TREND OF RELATIVE SUNSPOT NUMBERS



(R_Z) RELATIVE SUNSPOT NUMBERS

FOR JANUARY 1978

DAY	R _A	R _Z
1	77	84
2	77	88
3	103	102
4	105	102
5	89	73
6	72	69
7	42	42
8	32	36
9	21	36
10	10	15
11	16	18
12	20	20
13	30	26
14	33	36
15	30	30
16	18	23
17	25	24
18	12	14
19	8	8
20	5	7
21	25	20
22	31	30
23	44	43
24	46	37
25	39	32
26	53	47
27	68	69
28	79	79
29	90	90
30	100	104
31	114	118
M	48.8	49.3

Day	Max.	SEA	SES	Def.	Observers
1	21:59		2	5	A30, 31
7	07:07		2+	5	A31
8	02:27		2+	5	A31
8	19:23	1	1+	5	A1,26,30,31,40
9	08:45		3	5	A31
27	16:05		1+	5	A1,31,34,40

Charts from the following observers were received and analyzed:

A-1,19,26,28,30,31,34,40,43

