

Solar Bulletin

Publisher:

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS — SOLAR DIVISION
540 NORTH CENTRAL AVENUE
RAMSEY, NEW JERSEY, U.S.A.



Volume 33 Number 4

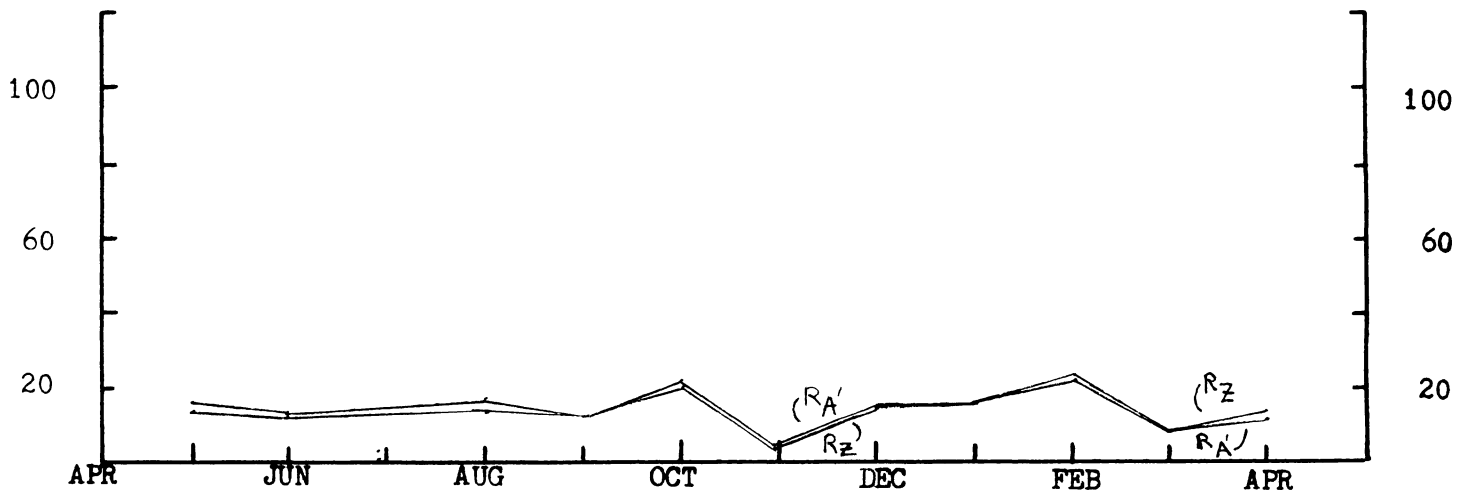
APRIL 1977

SUNSPOT ACTIVITY FOR APRIL

The level of Sunspot activity during April exceeded that of March by a small amount. The mean of the American Sunspot numbers rose to 10.7 from 8.0. A spotless period began on the seventh and ended early on the eleventh. The sun was also spotless for at least twenty-four hours centered on the twenty-fifth.

April produced eleven ionospheric disturbances of which a sampling of the more interesting ones are reproduced on page two. Thirteen observers sent charts for analysis.

RECENT TREND OF RELATIVE SUNSPOT NUMBERS



SUDDEN IONOSPHERIC DISTURBANCES RECORDED DURING APRIL 1977

AMERICAN (R_A) AND ZURICH (R_Z)

RELATIVE SUNSPOT NUMBERS FOR

APRIL 1977

DAY	R _A	R _Z
1	5	7
2	11	11
3	10	10
4	4	7
5	6	7
6	4	8
7	3	7
8	0	0
9	0	0
10	0	0
11	5	8
12	11	12
13	18	16
14	20	22
15	21	34
16	22	33
17	29	32
18	23	29
19	15	22
20	12	12
21	15	20
22	14	19
23	14	18
24	10	8
25	0	0
26	10	14
27	9	8
28	10	16
29	10	9
30	9	8
Mean	10.7	13.2

Day	Max.	SEA	SES	Def.	Observers
11	2124	1	2	5	A-1, 19, 30, 31, 34, 36, 40, 41
13	1752		2	5	A-1, 19, 30, 31, 37, 40, 41
13	2138	1	1+	5	A-1, 19, 26, 30, 31, 34, 37, 40, 41
13	2225	1	1+	5	A-19, 26, 30, 31, 34, 37, 41
13	2345	1	2	5	A-19, 30, 31, 34, 37, 40, 41
14	0550		1+	5	A-31
14	2113		1-	5	A-19, 31, 34, 37
14	2213		1-	5	A-19, 34, 37, 41
16	1734		1	5	A-1, 19, 26, 30, 31, 34, 37
16	2120		1	5	A-1, 19, 26, 30, 31, 34, 37, 40
16	2320		1	5	A-19, 30, 31, 37, 40

Charts from the following observers were received and analyzed:

A-1, 19, 26, 29, 30, 31, 32, 34, 36, 37, 40, 41

