

OCT 8 1 1977

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 9

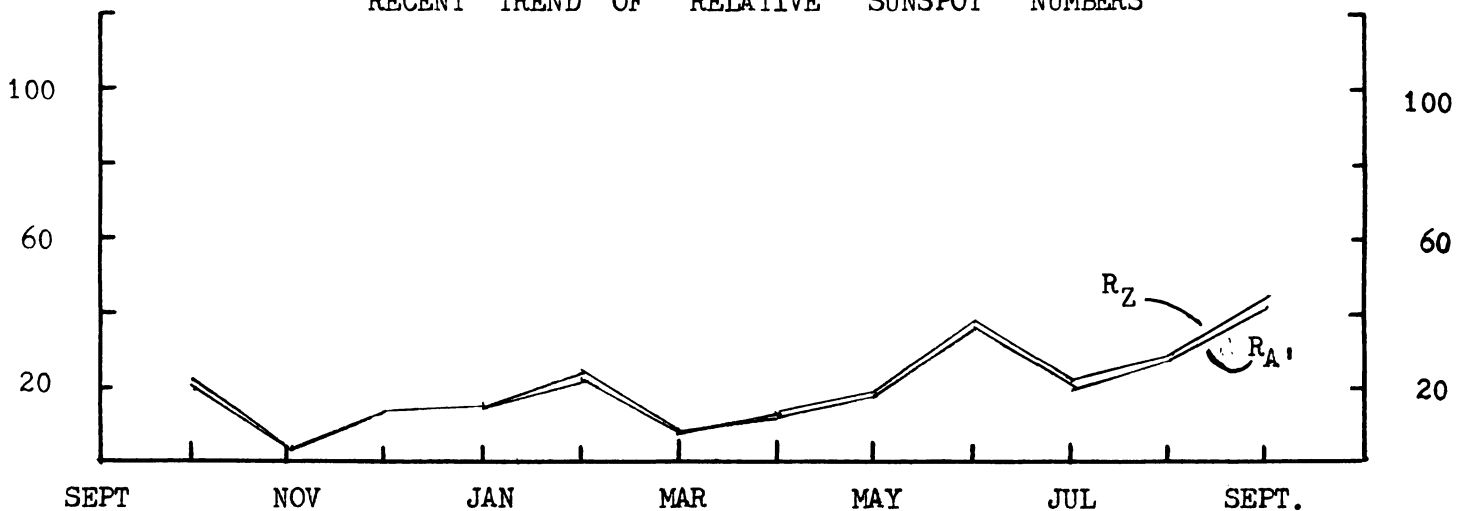
SEPTEMBER 1977

SUNSPOT ACTIVITY FOR SEPTEMBER

Sunspot activity continued the upward trend of recent months. The September mean of the American sunspot numbers rose to forty-one point nine which is the highest monthly mean since October 1974. There were no spotless days during September.

Solar Flares associated with the high level of sunspot activity produced twenty-one ionospheric disturbances that were recorded by A.A.V.S.O. observers. These were scattered through-out the month between the seventh and the twenty-sixth. A representative sample of recordings of these disturbances is reproduced on page two showing charts for the seventh, ninth, nineteenth, and twenty-sixth of September.

RECENT TREND OF RELATIVE SUNSPOT NUMBERS



SUDDEN IONOSPHERIC DISTURBANCES RECORDED DURING SEPTEMBER 1977

AMERICAN (R_{A1}) AND ZURICH (R_Z)

RELATIVE SUNSPOT NUMBERS FOR

SEPTEMBER 1977

DAY	R _{A1}	R _Z
1	17	22
2	25	29
3	30	29
4	26	25
5	25	20
6	21	26
7	24	25
8	19	18
9	26	30
10	36	40
11	48	45
12	54	51
13	54	48
14	50	47
15	54	53
16	52	56
17	56	53
18	61	59
19	60	58
20	60	58
21	54	59
22	39	42
23	35	41
24	34	48
25	43	46
26	49	49
27	49	54
28	50	61
29	56	63
30	51	67
Mean	41.9	44.1

Day	Max.	SEA	SES	Def.	Observers	Day	Max.	SEA	SES	Def.	Observers
7	1743	1	2	5	A1,26,28,30,31	18	1912		1	5	A1,19,28,30,31,40
7	2245	1+	2+	5	A1,26,28,30,31,40	19	0016		1+	5	A31,43
9	0506	1	1	5	A43	20	0332		3	5	A31
9	1616	1	1	5	A1,26,28,30,31	20	1846		1	5	A1,31
9	1645	1+	2+	5	A1,26,28,30,31,40	20	2115		1	5	A30,31
11	1854		1	5	A1,31	25	0450		1	5	A31
16	1750	1	1+	5	A1,28,30,31	25	1350		1+	5	A1,19,31,34
16	2146		2	5	A19,30,31,40	25	1704	1	1	5	A1,19,31
16	2250	1	2	5	A19,26,30,31,40	26	0029		1	5	A31,43
18	0049		2	5	A31,43	26	0152		2	5	A31,43
						26	0546		1	5	A43

Charts from the following observers were received and analyzed:

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

