

Solar Bulletin

Publisher:

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



Volume 30 Number 10

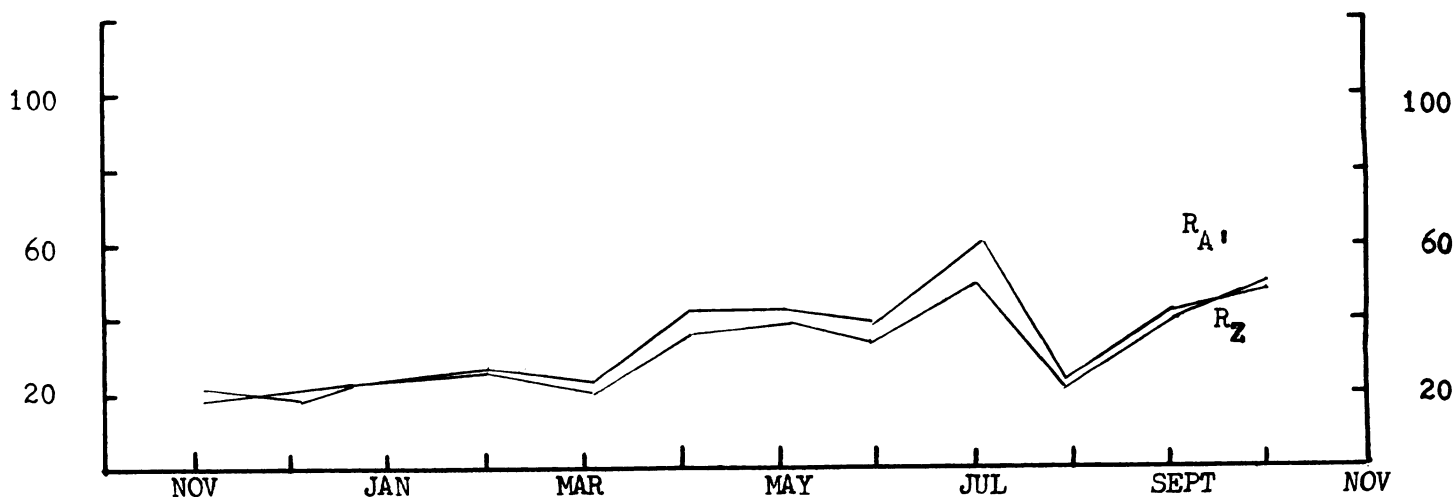
OCTOBER 1974

SOLAR ACTIVITY DURING OCTOBER

X Sunspot activity increased during October with the mean of the American Sunpost number rising to 48.4. There were no spotless days this month. Sunspot counts ran well over 100 early in the month. These higher counts were associated with the return of the active region of last month which again produced a gamma-type sunspot group which grew large enough to be seen with the unaided eye.

X Ionospheric disturbances were also much more numerous with forty-one separate events recorded by A A V S O observers. These were spread over almost the entire month with many of them occurring in conjunction with the passage of the gamma group mentioned above. Eleven October was the most active day with six events. Some of October's ionospheric activity is shown on the charts reproduced on page two. Many of these disturbances were also detected by the SEA method which is less sensitive than the SES method. The most intense event of October occurred on the very last day of the month.

RECENT TREND OF RELATIVE SUNSPOT NUMBERS



SUDDEN IONOSPHERIC DISTURBANCES RECORDED DURING OCTOBER 1974

AMERICAN (R_{A1}) AND ZURICH

(R_Z) RELATIVE SUNSPOT

NUMBERS FOR OCTOBER 1974

Day	R _{A1}	R _Z
1.	58	61
2.	48	53
3.	43	46
4.	58	60
5.	84	85
6.	87	83
7.	85	81
8.	108	91
9.	111	102
10.	113	114
11.	116	110
12.	92	92
13.	83	76
14.	66	63
15.	50	48
16.	43	41
17.	33	28
18.	6	14
19.	10	7
20.	12	11
21.	13	12
22.	9	9
23.	9	7
24.	7	7
25.	9	8
26.	20	16
27.	37	30
28.	26	27
29.	21	22
30.	26	22
31.	18	16
Means	48.4	46.5

Day	Max.	SEA	SES	Def.	Observers	Day	Max.	SEA	SES	Def.	Observers
2	14:48		1-	5	A19	12	19:16		1	4	A1,4,19,29,30,31,37
2	15:40		2	5	A19	13	05:50		1	4	A31
2	21:29		1+	4	A19,29,31,37	14	16:34	1-	1-	4	A1,19,29,31,36,37
6	01:36		2	5	A31	15	13:37		2	5	A1,19,31,32,36
6	02:43		2	5	A31	15	20:22		1	5	A1,19,31,37
6	21:40		2+	5	A30,31,37	17	04:25		1	4	A31
8	14:52	1-	1	5	A1,4,19,29,31,37	17	08:14		1+	5	A31
8	17:47	2	1	5	A1,4,19,29,31,37	17	17:07		1+	4	A31,37
10	15:15		1-	2	A4,19,29,31	17	18:15		1+	3	A37
10	18:12		1	5	A1,4,19,29,31,32,36,37	18	21:31		1-	3	A31,37
10	18:39		2	5	A1,19,29,31,36,37	19	01:29		3	5	A31
11	03:33		1+	5	A31	19	17:27	1	2	3+	A1,36,37
11	08:38		2	5	A31	19	18:04		1+	4+	A1,19,29,31,36,37
11	14:31	1	1	5	A1,4,19,29,31,32,36	20	16:20		1-	3	A19
11	14:51	1	2	5	A1,4,19,29,31,32,36,37	25	15:08		2-	3+	A19
11	17:35	1-	1+	5	A1,4,19,29,31,32,36,37	25	15:30		1+	3+	A19
11	18:37		1-	5	A1,19,29,31,36,37	25	17:00		1+	3+	A19
12	17:40		1	5	A1,4,19,29,30,31,36,37	26	15:37		1	5	A1,31,37
						26	16:07		1	5	A1,29,31,37
						27	14:41		1-	5	A19
						28	13:47		1	4	A29
						28	14:19		1	3	A19,29
						31	16:00		3	5	A1,4,19,29,31,32,37,40**

**A-40 is a new observer this month.

