

Solar Bulletin

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS — SOLAR DIVISION

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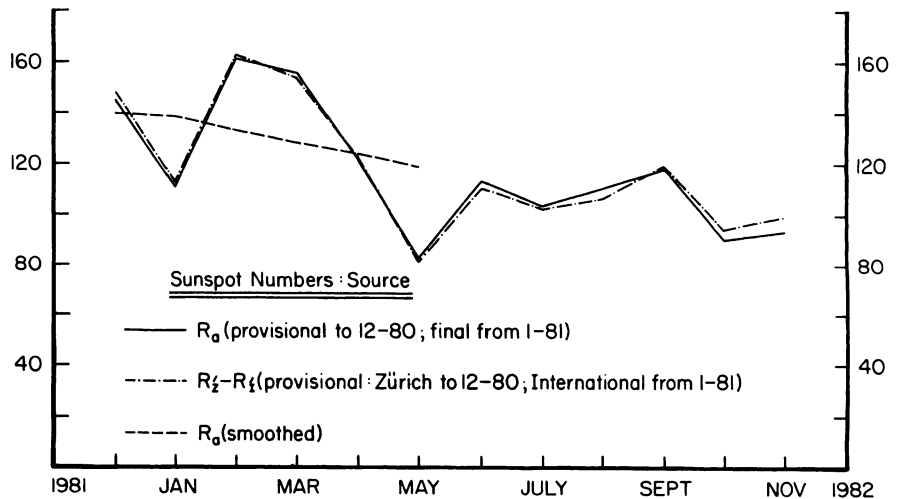
Number 11

November 1982

November 1982		
RELATIVE SUNSPOT NUMBERS (R):		
AAVSO (a), INTERNATIONAL (I)		
Day	R _a	R _I
1	80	80
2	81	88
3	65	75
4	79	100
5	69	100
6	69	76
7	85	106
8	87	82
9	94	124
10	95	109
11	97	112
12	82	83
13	101	98
14	112	116
15	111	116
16	106	100
17	125	108
18	132	117
19	127	122
20	124	118
21	129	131
22	128	141
23	108	120
24	88	96
25	71	75
26	65	73
27	63	71
28	72	74
29	75	71
30	76	72
Mean	93.2	98.5

To regain its normal schedule, the Solar Bulletin will limit this and several following issues to data without commentary. Any researcher urgently needing data not yet published should request them directly from the Editor.

The smoothed mean sunspot number is 119.0 for May 1982.



SUDDEN IONOSPHERIC DISTURBANCES (SESs) RECORDED DURING NOVEMBER 1982

Records were received from A1, 9, 19, 26, 28, 31, 46, 49, 50, 51, 52, 54, 55, 56, 57

Day	Max	Imp	Def	Observers	Day	Max	Imp	Def	Observers
1	20:13	1-	5	A19,31	20	02:19	1-	5	A31,55,56
2	09:18	1-	5	A52	20	05:39	1+	5	A31,52,55,56
2	14:49	1-	4	A31	20	10:22	1-	5	A52
2	16:36	1	5	A19,31,46,49,50,56	20	17:13	1	5	A19,26,31,46,49,50,51,55,56
2	17:44	1+	5	A19,31,50,56	20	19:02	1-	5	A19,26,31,46,55,56
2	22:15	1-	5	A31,56	20	20:15	1-	5	A19,31,46,55,56
3	09:34	1	5	A52	20	21:04	1-	5	A31,55
8	10:19	1	5	A52	21	10:28	1-	5	A52
8	15:37	1-	5	A19,26,31,51,56	21	13:20	1-	5	A19,50
8	18:47	1-	5	A19,26	21	14:22	1	5	A19,26,31,46,49,51,55,56
9	01:05	2	5	A31,55,56	21	17:47	1-	5	A19,31,46,55,56
9	08:04	2	4	A31	21	18:50	1-	5	A19,26,31,46,50,51,55,56
9	19:02	1-	5	A31	21	19:48	1-	5	A19,26,31,46,50,55,56
9	23:03	1-	5	A31	21	21:38	1-	5	A19,31,46,50,55,56
10	04:11	1-	5	A31,52,56	22	15:22	1-	5	A19,26,31,51,55
10	06:08	1-	5	A52	22	17:04	1-	5	A19,26,31,46,51,55,56
10	09:26	1+	5	A52	22	17:45	2	5	A19,26,31,50,51,55,56
10	18:12	2	5	A19,26,28,31,50,51,55,56	22	18:30	2	5	A19,26,31,51,55,56
10	23:33	1-	5	A31	22	22:00	1-	5	A31,46,55,56
11	02:43	1+	5	A52	22	23:51	1	5	A31,46,55,56
11	22:52	1+	5	A31,46,55,56	23	02:29	1-	5	A31,52,55,56
12	04:07	1+	5	A31,52,55,56	23	03:22	1-	5	A31,52,55,56
12	05:51	1-	5	A31,52	23	09:30	1-	4	A31
12	14:38	2+	5	A19,26,31,50,51	23	13:45	1-	4	A49
13	00:14	1+	5	A31,46,55,56	23	19:48	1-	5	A31,55,56
13	02:46	1	5	A31,46,52,55,56	24	02:56	1-	5	A31,56
13	03:17	1-	5	A52,55,56	24	04:56	1-	5	A52
13	03:47	1-	5	A52,55,56	24	15:02	1	5	A19,26,31,49,51
13	04:58	1-	5	A31,52,55,56	24	19:50	1	5	A19,26,28,50,51,55
13	06:12	1+	5	A31,52,55	24	21:35	1+	5	A31,50,55,56
13	14:19	1-	5	A19,26,31,49,50,51	24	22:39	1+	5	A55
13	14:40	1+	5	A19,26,49,50,51	25	01:31	1	5	A55,56
14	00:27	2	5	A31,46,55,56	25	04:18	1	5	A31,55,56
14	15:45	1-	4	A31	25	18:07	1-	4	A31
15	02:08	1	5	A55	26	02:44	2	5	A31,52,55,56
15	16:28	1+	5	A19,26,28,31,51,55,56	26	15:15	1	5	A19,31,50,56
15	18:45	1-	5	A19,26,31,51,55,56	26	16:15	1+	5	A31,55
15	20:07	1-	5	A19,26,31,49,51,55,56	26	18:06	1+	4	A31
16	03:30	1-	5	A31,52,55,56	26	19:47	1	5	A31,55,56
16	04:09	2	5	A31,52,55,56	27	16:01	1-	5	A26,31
16	20:52	1	5	A31,50,55	27	18:43	1-	5	A26,31
16	21:22	2	5	A31,50,55,56	28	04:15	1	5	A52,55,56
16	22:31	1-	5	A31,55,56	28	05:31	1-	5	A52,55,56
17	04:33	1-	5	A52	28	16:53	1	5	A19,31
17	11:00	1+	5	A52	29	17:15	2+	5	A19,26,31,50,51
17	14:15	2	5	A19,26,31,49,51	29	20:21	2	5	A19,31,50,51,56
18	03:11	1-	5	A52	29	21:42	1-	5	A55,56
18	05:07	1-	5	A31,52,55,56	30	07:45	1-	5	A52
18	21:27	1-	5	A31,55,56	30	08:45	1	5	A52
19	07:42	1	5	A31,52,56	30	23:30	1-	5	A31
19	09:33	1-	5	A31,52,56					
19	17:56	1-	4	A55					
19	21:32	1-	4	A31					

