

Solar Bulletin

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS-- SOLAR DIVISION

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Relative Sunspot Numbers For April 1988

R _a Final			R _i Provisional*		
1) 108	11) 123	21) 79	1) 110	11) 115	21) 79
2) 105	12) 125	22) 66	2) 96	12) 118	22) 72
3) 96	13) 136	23) 46	3) 94	13) 120	23) 48
4) 80	14) 139	24) 38	4) 74	14) 138	24) 30
5) 69	15) 142	25) 50	5) 66	15) 145	25) 44
6) 69	16) 144	26) 46	6) 62	16) 148	26) 44
7) 86	17) 144	27) 40	7) 84	17) 144	27) 36
8) 98	18) 135	28) 40	8) 92	18) 137	28) 43
9) 110	19) 118	29) 41	9) 115	19) 108	29) 39
10) 112	20) 89	30) 54	10) 107	20) 88	30) 44

Mean = 90.9

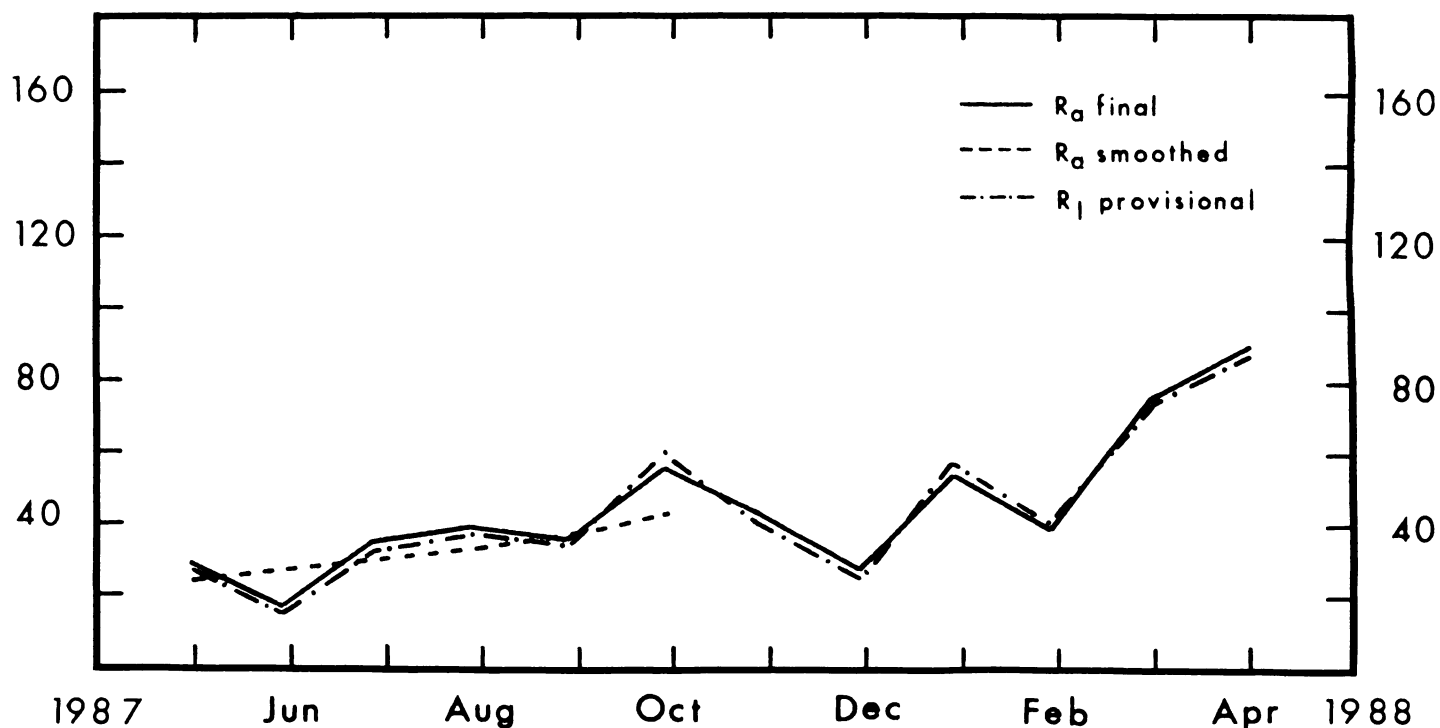
Mean = 88.0

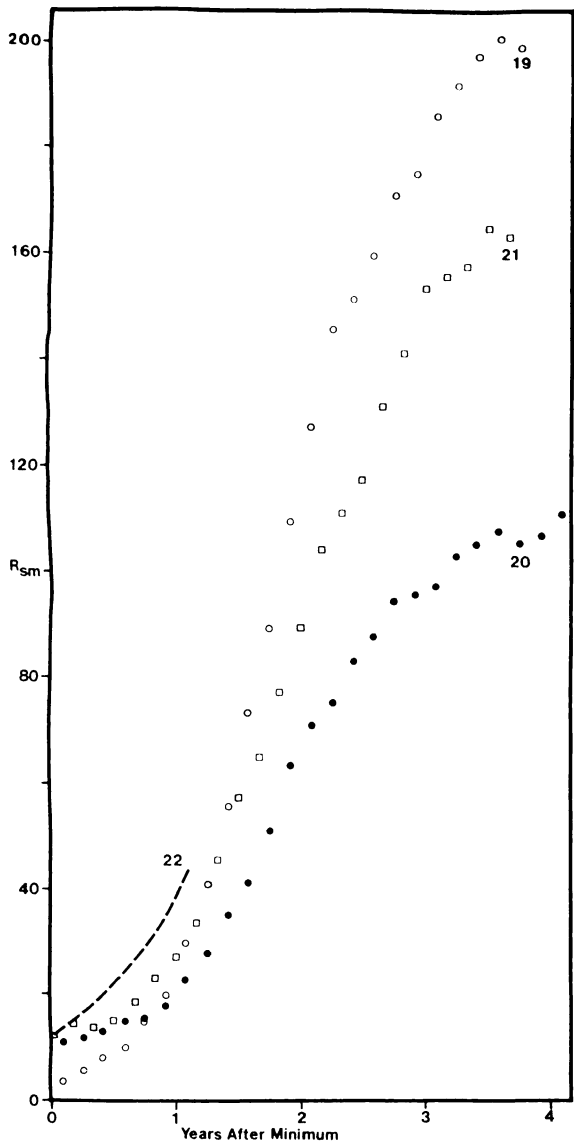
The smoothed-mean American Relative Sunspot Number for October 1987 is 43.3, calculated according to the method of Waldmeier.

R_a final was computed from the reports of sixty-one members of the international network of American Sunspot Program contributors.

Note: The estimated mean American Sunspot Number for May 1-21 is 67.

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**Smoothed Monthly Mean Values For
The Ascending Branches of Sunspot
Cycles 19-21, & Cycle 22 To Date**

Sudden Ionospheric Disturbances Recorded During April 1988
Records were received from A1,9,19,26,49,50,59

Day	Max(UT)	Imp	Def	Observer(s)
6	22:45	2+	5	A49,50
7	13:15	2	5	A19,26,49,50,59
7	16:21	2	5	A19,50,59
7	18:47	1+	5	A19,50
9	21:17	1+	5	A19,50,59
11	13:48	1	5	A19,49,59
12	15:02	1+	5	A1,19,26,50
12	17:11	2	5	A1,19,26,49,50,59
12	18:32	1+	5	A19,49,50
13	18:34	2	5	A1,19,26,49,50,59
13	20:15	2+	5	A1,26,49,50,59
14	15:00	1-	5	A26,49,50,59
14	17:28	1+	5	A59
14	19:17	1-	5	A1,49,50,59
14	19:40	2+	5	A1,9,19,26,49,50,59
15	20:13	2+	5	A9,19,26,49,50,59
15	21:19	2	5	A9,19,26,49,50,59
16	16:18	1+	5	A19,50
16	18:11	2	5	A19,49,50,59
16	20:09	1	5	A19
16	21:26	2	5	A9,19,26,49,50,59
16	22:16	1+	5	A9,49,50
17	17:17	2	5	A1,19,49,50,59
17	22:17	2+	5	A9,19,26,50
19	13:33	1	5	A1,26
19	19:10	2+	5	A1,9,19,26,49,50,59
19	20:40	1+	5	A26,49,50
20	13:15	2	5	A1,19,26,49,50,59
21	14:27	2+	5	A1,19,26,49,50,59
22	14:17	2	5	A1,19,26,49,50,59
22	19:44	1+	5	A1,26,49,50,59
23	16:50	1+	5	A1,19,26,49,59
24	14:37	1	5	A59
30	21:03	2	5	A1,19,26,50

Note especially the sharp rise from minimum for sunspot cycle 22.

Predicted Smoothed American Sunspot Numbers
(McNish - Lincoln Method)

November (50); December (57); January (63);
February (68); March (72); April (77).

Solar Geophysical Data, 523, Part I, p10.

The American Sunspot Number and related information is available through the CompuServe Information Service, INFOPLEX, MCImail, and through domestic and international Telex/TWX. Contact the Editor for details.

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