Solar Bulletin

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS— SOLAR DIVISION

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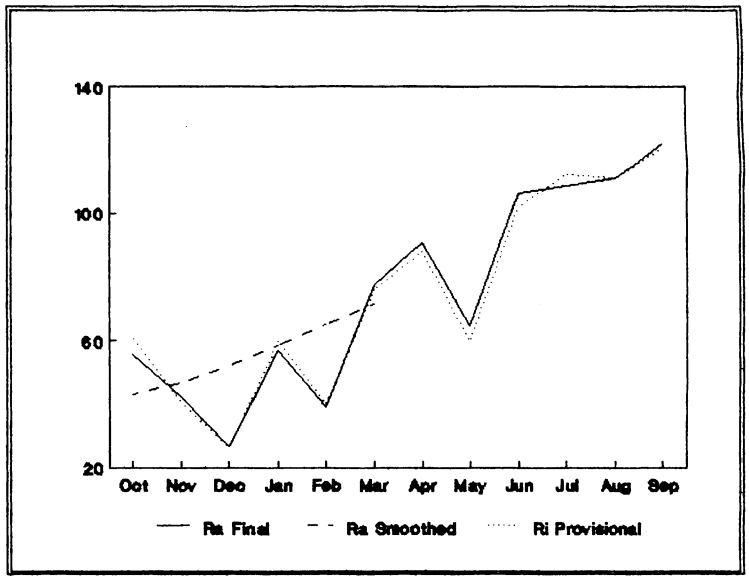
Relative Sunspot Numbers for September

	R_a Final				
1)	142	11)	92	21)	170
2)	142	12)	89	22)	169
3)	129	13)	91	23)	176
4)	142	14)	100	24)	163
5)	130	15)	102	25)	155
6)	105	16)	109	26)	149
7)	100	17)	90	27)	152
8)	89	18)	102	28)	141
9)	80	19)	113	29)	109
10)	88	20)	138	30)	109

Mean = 122.2



The smoothed mean American Relative Sunspot Number for March 1988 is equal to 71.5 [computed according to the method of Waldmeier (1961)].
R_a Final was derived from the reports of seventy-four members of the international network of American Sunspot Program contributors.
Note: The estimated mean American Sunspot Number for 1-17 October is 129.

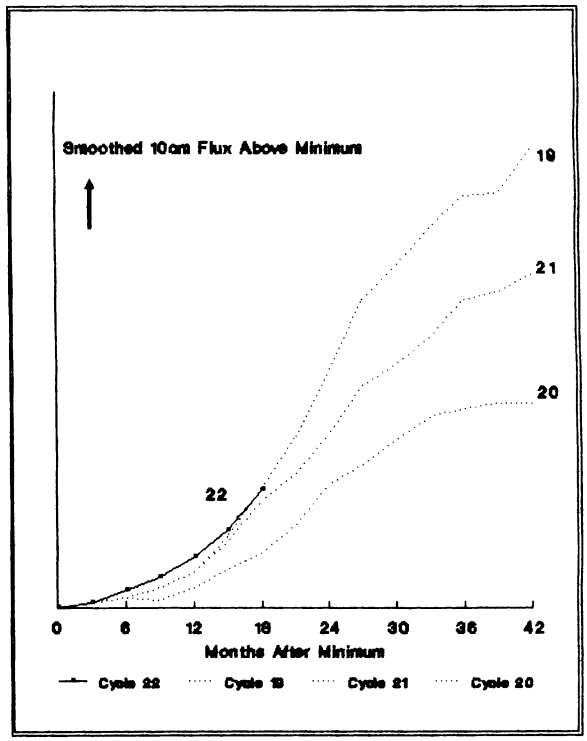
Recent Trend of the Rise in 10cm Flux

Another rapidly-rising indicator of solar activity is the index of smoothed 10cm flux. The current rate of change is depicted in the figure to the right, relative to that demonstrated during the previous three similar cycles. This index closely parallels the Relative Sunspot Number index.

Observations of the 2800 MHz flux are made each day at Algonquin Radio Observatory (National Research Council of Canada) near 1700 UT. They continue the series begun in Ottawa in 1947.

Adapted from Preliminary Report and Forecast of Solar Geophysical Data[1].
Note: Minimum occurred September 1986.

[1]SESC PRF, 680, 15.



R_i Provisional

1)	137	11)	87	21)	168
2)	153	12)	83	22)	168
3)	129	13)	91	23)	190
4)	148	14)	94	24)	166
5)	128	15)	89	25)	143
6)	93	16)	97	26)	151
7)	97	17)	79	27)	157
8)	88	18)	97	28)	148
9)	74	19)	113	29)	111
10)	76	20)	153	30)	117

Mean = 120.8

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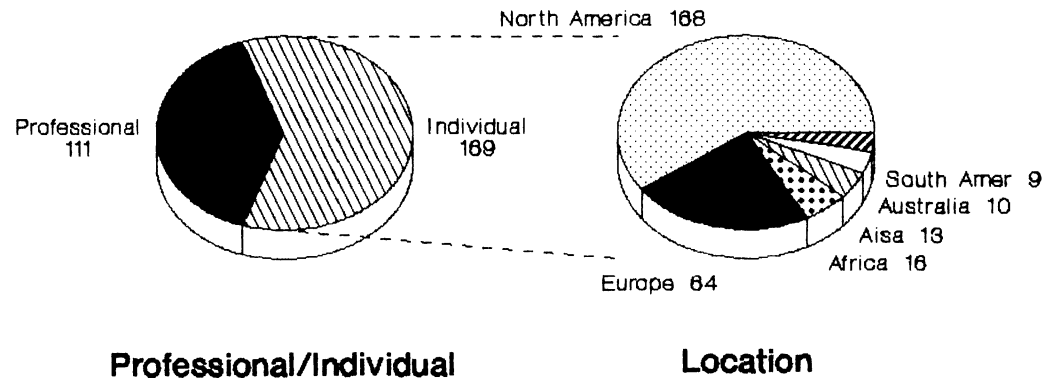
Predicted Smoothed American Sunspot Numbers

McNish - Lincoln Method[2]:
April 78; May 84; June 90;
July 98; August 106; September 112.

According to Taylor[3]:
April 75 (7); May 82 (8); June 88 (9);
July 95 (9); August 102 (10); September 108 (11).

[2]Solar Geophysical Data, 528, I, 12.
[3]Solar Bulletin, 44, 6, 2.

Solar Bulletin Recipients 1988



Sudden Ionospheric Disturbances Recorded During August

Records were received from: A1,3,9,19,26,46,49,50,59

Day	Max (UT)	Imp	Def
2	14:27	1	5
2	15:55	2	5
2	17:20	2	5
2	18:32	1-	5
2	20:45	2	5
2	22:12	2+	5
3	10:06	1+	5
3	14:45	1+	5
3	15:58	2	5
3	17:45	1-	5
3	20:31	1+	5
4	17:22	1+	5
4	20:58	1+	5
6	16:42	1+	5
7	15:17	1+	5
7	17:19	1+	5
8	12:28	1-	5
8	16:03	2+	5
9	15:44	1	5
10	14:13	1-	5
10	14:20	1	5
10	16:20	1-	5
19	13:51	2	5
23	14:07	1+	5
23	17:16	2+	5
23	20:07	1+	5
29	15:50	2	5
30	13:57	2	5
30	17:43	2	5

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The American Sunspot Numbers and related information are available through the CompuServe Information Service, INFOPLEX, MCImail, and through domestic and international Telex and FAX. Contact the Editor for details.