

Solar Bulletin

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS - SOLAR COMMITTEE

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Table I. American Relative Sunspot Numbers (Ra) for September 2004 [boldface = maximum, minimum]

Day	N	Raw Mean	Ra
1	47	16	12
2	38	16	12
3	41	27	21
4	41	33	26
5	37	50	39
6	41	54	40
7	42	70	51
8	34	71	52
9	34	82	60
10	39	72	55
11	34	63	47
12	43	64	49
13	44	69	49
14	29	62	43
15	38	65	46
16	32	59	43
17	36	59	44
18	34	52	39
19	46	45	34
20	39	42	31
21	36	36	26
22	41	26	19
23	35	20	15
24	35	14	11
25	34	20	15
26	36	22	17
27	37	21	16
28	32	16	12
29	29	36	28
30	32	45	32
31	---	---	---

Means: 37.2 44.3 32.8

Total No. of Observers: 61

Total No. of Observations: 1116

Table II. September 2004 Observers

13 AAP P.Abbott	15 MARE E.Mariani
30 ARAG G.Araujo	29 MARJ J.Maranon
9 BARH H.Barnes	22 MCE E.Mochizuki
4 BATR R.Battaiola	5 MEU E.Mason
18 BEB R.Berg	27 MMI M.Moeller
15 BERJ J.Berdejo	16 OBSO IPS Observatory
5 BLAJ J.Blackwell	25 RITA A.Ritchie
21 BMF M.Boschat	23 SCGL G.Schott
12 BOSB B.Bose	3 SDP D.Sharple
26 BRAB B.Branchett	15 SIMC C.Simpson
28 BRAR R.Branch	19 STEM G.Stemmler
20 BROB R.Brown	26 STQ N.Stoikidis
4 CAMP P.Cambell	25 SUZM M.Suzuki
30 CHAG G.Morales	26 SZUM M.Szulc
29 CKB B.Cudnik	26 TESD D.Teske
18 CLZ C.Laurent	24 THR R.Thompson
19 COMT T.Compton	21 TJV J.Temprano
26 CR T.Cragg	26 URBP P.Urbanski
25 DEJV J.van Delft	20 VARG A.Vargas
4 DELS S.Delaney	7 VELM M.Velea
12 DGP G.Dyck	24 WILW W.Wilson
10 DPP P.dePonthiere	27 YESH H.Yesilyaprak
27 DRAJ J.Dragesco	
24 DUBF F.Dubois	
13 FEEC C.Feehrer	
26 FLET T.Fleming	
21 FUJK K.Fujimori	
12 GOEM M.Goetz	
9 HALB B.Halls	
12 HAYK K.Hay	
19 HRUT T.Hrutkay	
12 JAMD D.James	
22 KAPJ J.Kaplan	
28 KNJS J&S Knight	
5 KQR R.Kinne	
12 KROL L.Krozel	
9 LARJ J.Larriba	
17 LERM M.Lerman	
19 LEVM M.Leventhal	

Reporting Addresses

Sunspot Reports -- email: solar@aavso.org
postal mail: AAVSO, 25 Birch St. Cambridge, MA 02138
FAX (AAVSO): (617) 354-0665

SID Solar Flare Reports -- email: noatak@aol.com
postal mail: Mike Hill
114 Prospect St. Marlboro, MA 01752

Table III. Means of Raw Group Counts (RG) and Ratios of Spots to Groups (S:G) in September 2004

Day	RG	S:G	Day	RG	S:G	Day	RG	S:G	Day	RG	S:G
1	1.3	1.9	9	4.4	8.7	17	2.5	14.0	25	1.7	2.2
2	1.3	2.0	10	4.0	7.9	18	2.4	11.4	26	2.0	1.3
3	2.0	3.4	11	3.5	8.1	19	2.5	8.5	27	1.8	1.4
4	2.3	4.0	12	3.3	9.1	20	2.2	9.1	28	1.4	1.6
5	3.5	4.2	13	2.9	13.6	21	2.0	7.9	29	3.0	1.9
6	3.3	6.2	14	2.0	20.9	22	1.4	9.3	30	3.7	2.4
7	3.6	9.5	15	2.6	15.1	23	1.3	5.2	31	---	---
8	3.3	11.4	16	2.3	15.7	24	1.2	2.3	Mn.	2.5	7.3

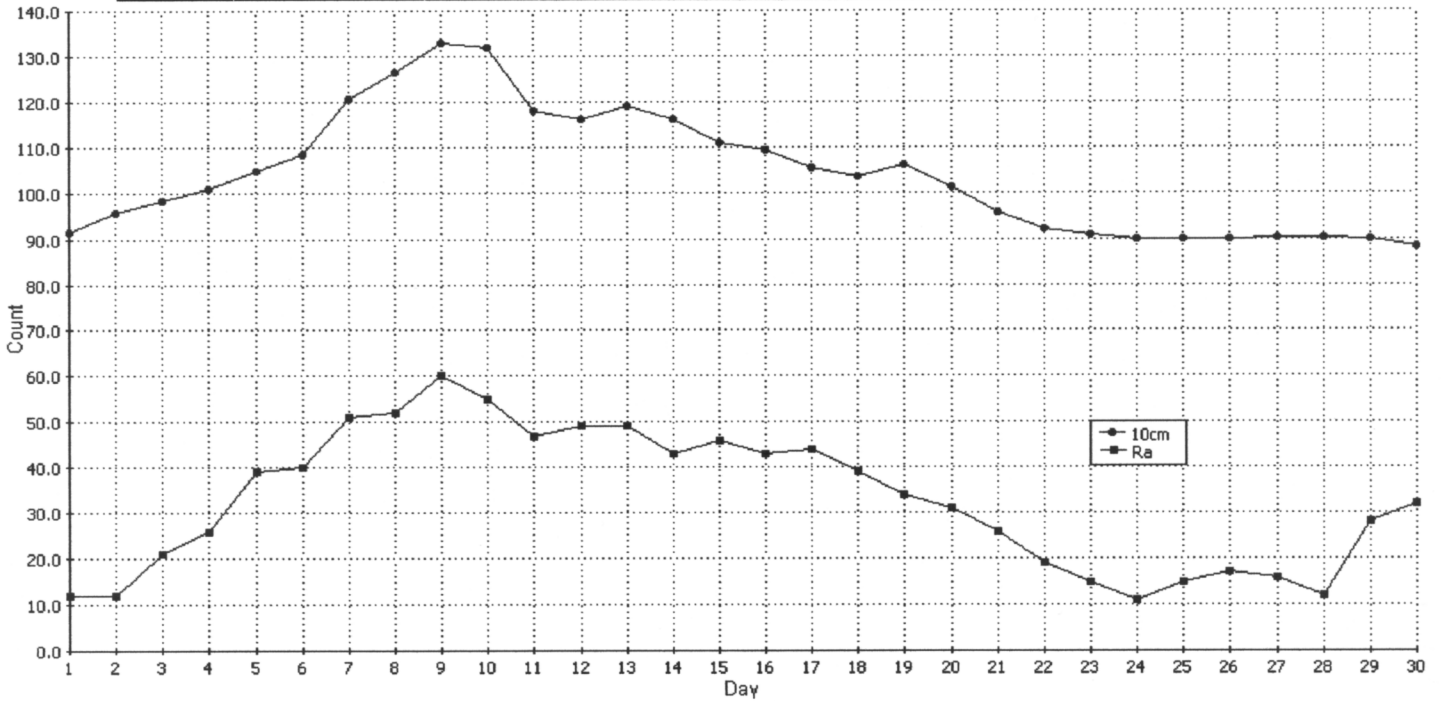


Fig. 1. 10 cm Solar Flux and American Relative Sunspot Numbers (Ra) for September 2004
10 cm source: <http://www.drao.nrc.ca/icarus>

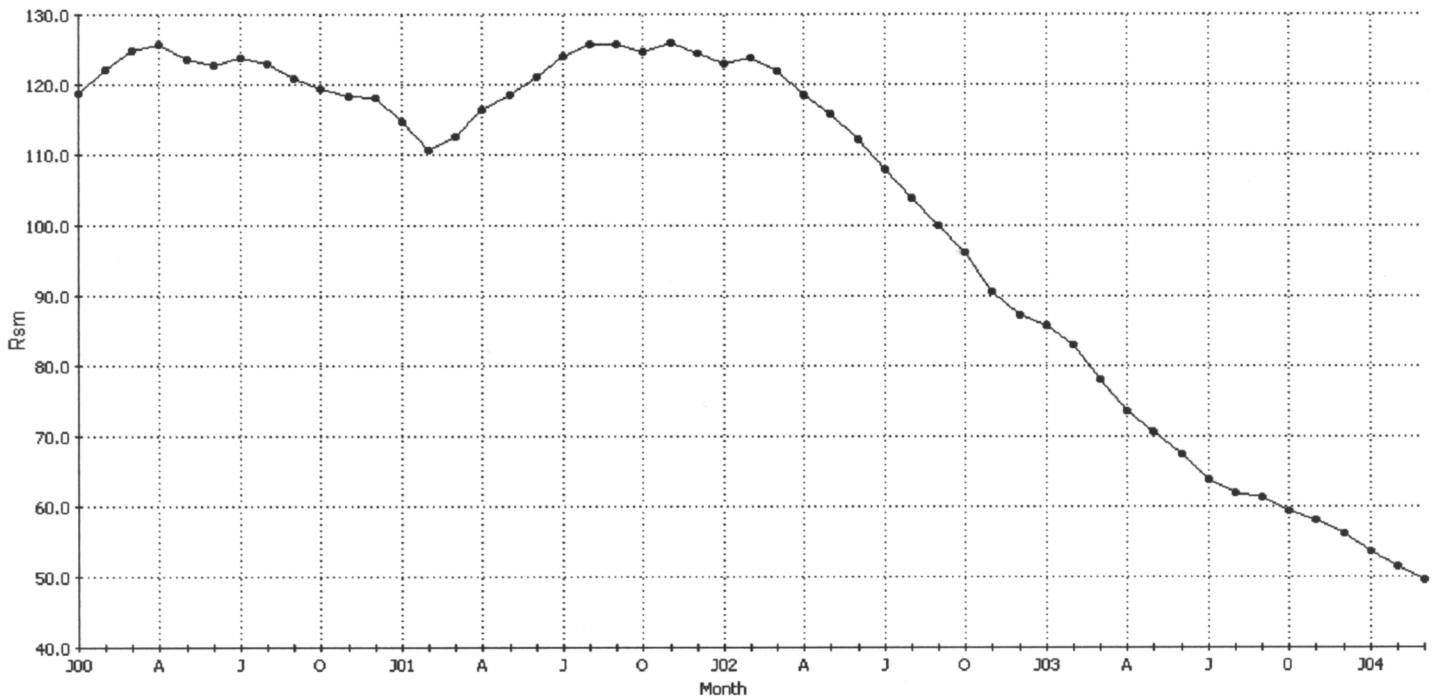


Fig. 2. Smoothed Mean Sunspot Numbers (Waldmeier method) from January 2000 to March 2004.

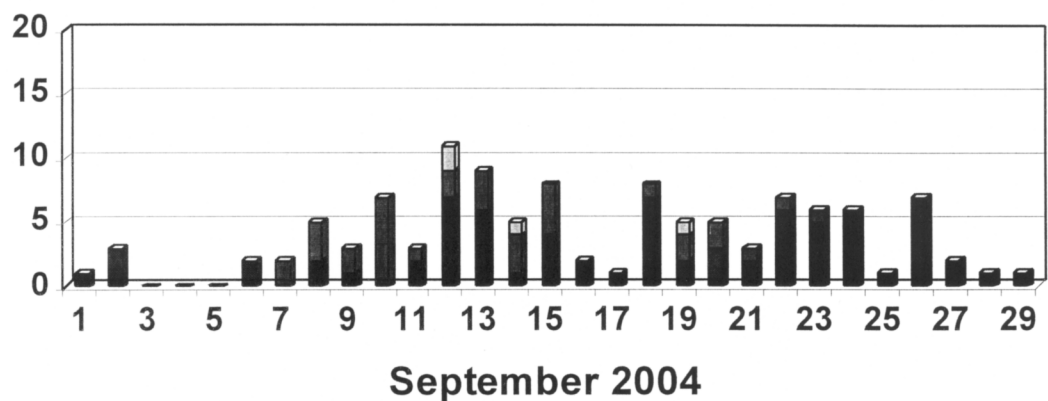
Solar Events

September was a very slow month for SID Monitoring. A radical change from the last two months but more in line with what is to be expected in this part of the solar cycle. There were only 20 correlated SID events recorded this month. Many were longer duration events however with importance ratings falling primarily in the 2, 2+ and 3 range. The X-Ray flare count was low as well. As can be seen from the chart below there were far fewer flares recorded last month totalling only 111. Of these, only four were M-Class events and there were no X-Class events.

The observer count fell from the usual 18-19 observers down to 16 last month. Hopefully this trend will not continue as activity decreases but I know there are those of you I can count on to continue submitting reports, even if they are reports of non activity indicating you are still watching. Thank to all of you who have submitted.

This month observer awards are going to be issued to some of you for your continued efforts and dedication. The criteria for the awards has been determined by me to be the submission of data for 40 months which amounts to an average of 10/year for four years. Eight observers will receive awards this year. These awards will be given out each year for those that reach this milestone. There will certainly be more of you which will meet this criteria next year. Thanks again for all your efforts.

Solar Flare Summary Based on GOES-12 Data



■ B-Class: ■ C-Class: □ M-Class: □ X-Class: