



Solar Bulletin

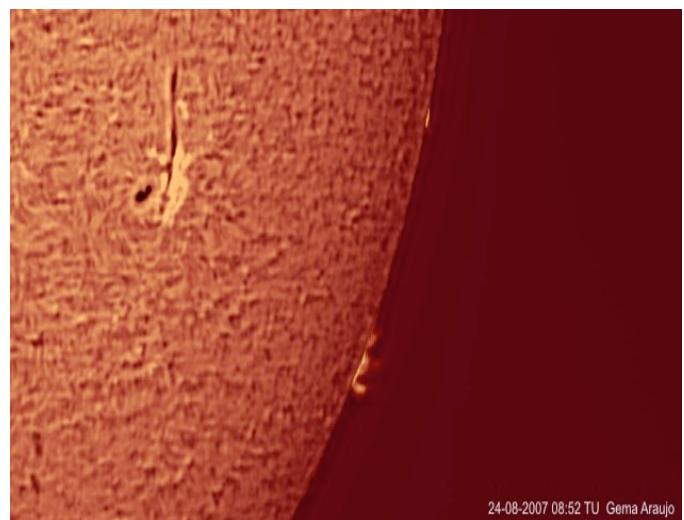
THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS - SOLAR COMMITTEE

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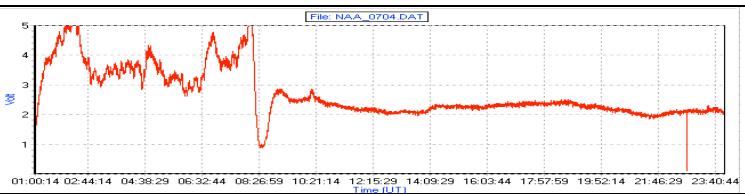
Gema Araujo caught wonderful images of AR0969 on August 24, 2007, a few minutes before (left) and an hour after (right) a class C2.0 flare erupted and recorded by several SID observers. You can see more of Gema's nearly daily images at www.astrosurf.com/obsolar/

August must have produced many clear days as sunspot observers added nearly 200 more observations this month than July. Hopefully the clear weather trend will continue into September.

Remember to send me any solar drawings, SID flares or photos for me to include here.

Sudden Ionospheric Disturbance Report

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Sudden Ionospheric Disturbances (SID) Recorded During July 2007

(Analysis performed by Michael Hill, SID Analyst)

Importance rating: Duration (min) | 1-: <19 | 1+: 19-25 | 1++: 26-32 | 2-: 33-45 | 2++: 46-85 | 3-: 86-125 | 3++: >125

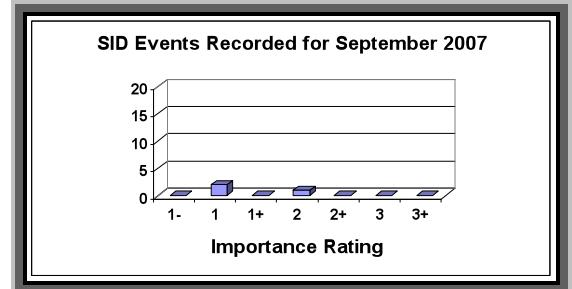
<u>Observer</u>	<u>Code</u>	<u>Station(s) monitored</u>
M Hill	A87	NAA
R Battaiola	A96	HWU
L Loudet	A118	DHO
J Godet	A119	GBZ HWU ICV

Observer Code Station(s) monitored

The events listed above meet at least one of the following criteria

- 1) Event reported by two or more observers within ± 5 minutes
 - 2) Event matched to GOES-8 XRA event to within ± 15 minutes and event time < 1000 UT
 - 3) reported by observer with a quality rating > 8 (scale 1-10)

Solar Events

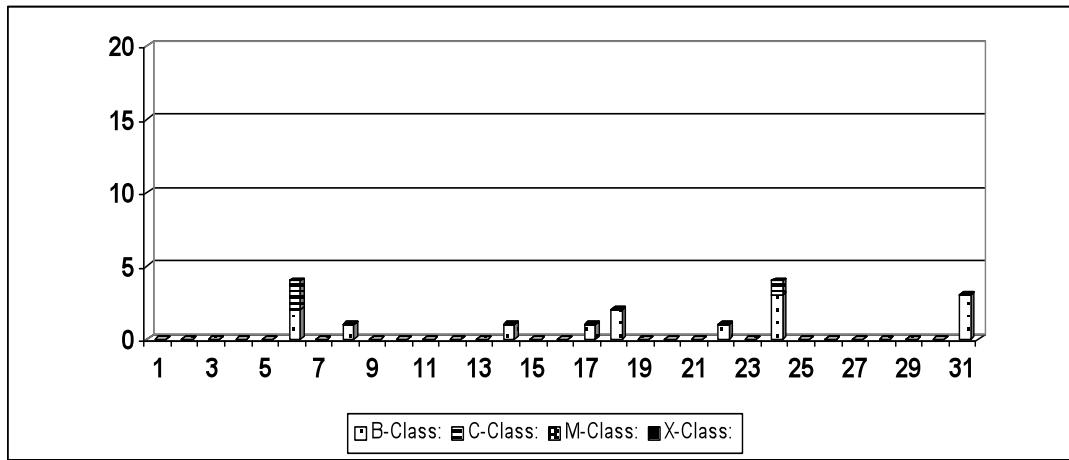


August was an exceptionally slow month again for SID activity. There were only 3 correlated SID events reported by observers. Even the GOES Spacecraft did not see much action recording only 17 X-Ray flare events. All of these in fact were only B and C class events.

One of our observers Jon Wallace (A97) had the pleasure of visiting one of the most powerful VLF stations that are used in the SID program (NAA in Cutler, Maine) here is a picture that gives an idea of the size of one of these transmitting stations.



Solar Flare Summary Based on GOES-12 Data



American Relative Sunspot Numbers (Ra) for
August 2007 [boldface = maximum, minimum]

Day	N	Raw Mean	Ra
1	38	0	0
2	29	0	0
3	44	3	2
4	41	10	7
5	37	11	8
6	37	14	10
7	35	12	9
8	36	16	12
9	31	15	11
10	33	14	10
11	37	11	8
12	41	9	5
13	39	6	4
14	38	2	1
15	37	1	1
16	37	0	0
17	40	0	0
18	39	0	0
19	36	0	0
20	38	0	0
21	32	11	7
22	34	12	9
23	32	13	9
24	33	14	10
25	38	13	10
26	40	13	10
27	37	12	9
28	40	13	10
29	34	13	9
30	33	19	14
31	36	22	17

Means **36.5** **9.0** **6.5**

No. of Observers: **58**

Total No. of Observations: **1132**

Reporting Addresses:

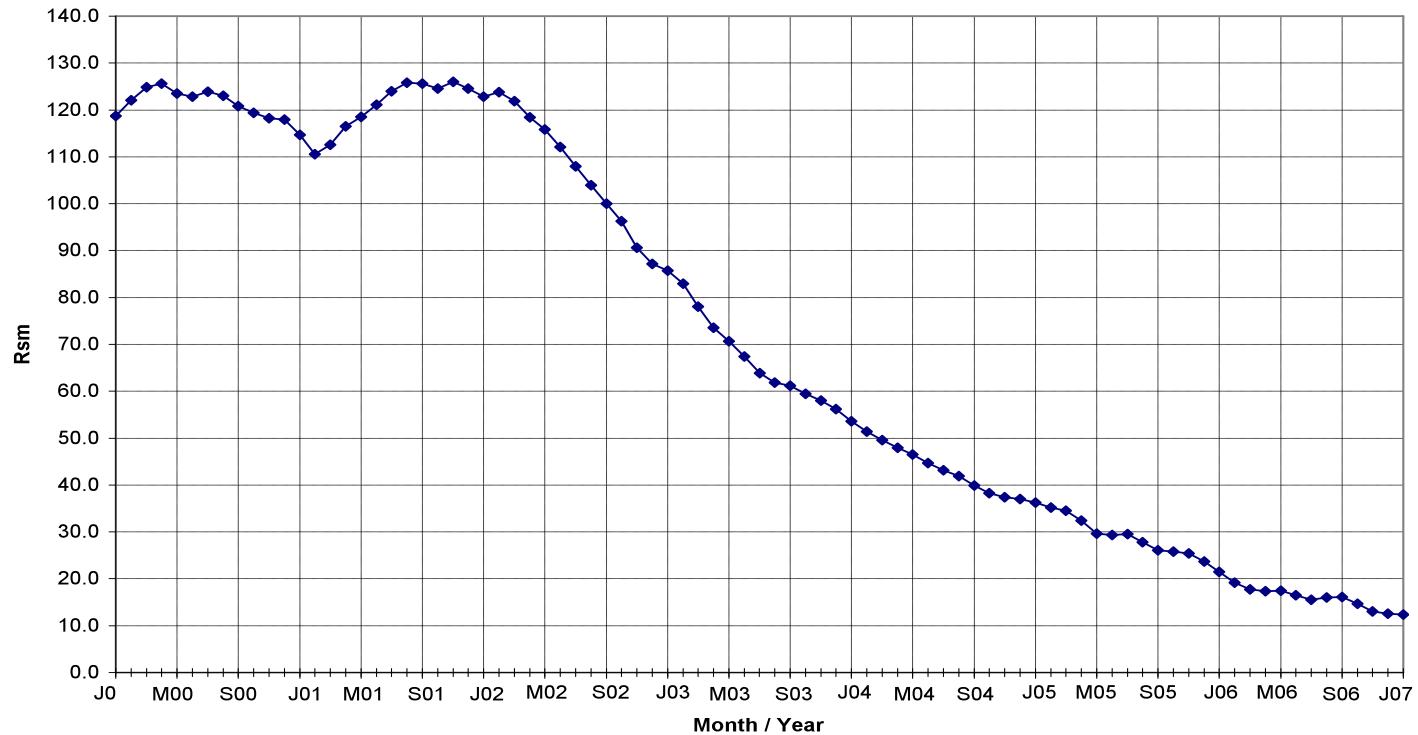
Sunspot Reports – Email: solar@aavso.org Postal Mail: AAVSO,
49 Bay State Rd. Cambridge, MA, 02138 Fax: 617-354-0665

SID Flare Reports – email: noatak@aol.com Postal Mail: Mike Hill,
114 Prospect St., Marlboro, MA, 01752

August 2007 Sunspot Observers

AAP	A. Abbott	17
AJV	J. Alonso	27
ARAG	G. Araujo	31
ARE	R. Allessi	2
BARH	H. Barnes	10
BATR	R. Battaiola	18
BEB	R. Berg	10
BERJ	J. Berdejo	6
BMF	M. Boschat	19
BRAB	B. Branchett	30
BRAD	D. Branchett	22
BRAR	R. Branch	31
BROB	R. Brown	31
BVC	A. Buck	31
CHAG	G. Morales	30
CKB	B. Cudnik	17
CLZ	L. Corp	9
CNT	D. Chantiles	6
COMT	T. Compton	14
DEJV	J. van Delft	41
DGP	G. Dyck	19
DUBF	F. Dubois	27
FLET	T. Fleming	27
FUJK	K. Fujimori	27
GFT	F. Gobet	19
GOEM	M. Goetz	8
HALB	B. Halls	16
HAYK	K. Hay	21
HMQ	M. Harris	12
KAPJ	J. Kaplan	17
KNJS	J. & S. Knight	10
KROL	L. Krozel	2
KUZM	M. Kuzmin	6
LARJ	J. Larriba	9
LERM	M. Lerman	15
MARJ	J. Maranon	30
MCE	E. Mochizuki	23
MCHL	L. McHenry	2
MILJ	J. Miller	17
MMI	M. Moeller	24
OATS	S. Oatney	28
OBSO	IPS Observatory	18
RICE	E. C. Richardson	19
RITA	A. Ritchie	22
SCGL	G. Schott	27
SIMC	C. Simpson	6
STEF	G. Stefanopoulos	16
STEM	G. Stemmler	22
STQ	N. Stoikidis	29
SUZM	M. Suzuki	30
SZUM	M. Szulc	31
TESD	D. Teske	28
TJV	J. Temprano	18
URBP	P. Urbanski	23
VIDD	D. Vidican	21
WILW	W. Wilson	28
WRP	R. Wheeler	2
YESH	H. Yesilyaprak	31

**Smoothed Mean Sunspot Numbers (Rsm) from January 2000 to January 2007
(Waldmeier Method)**



10 cm Solar Flux and American Relative Sunspot Numbers (Ra) for August 2007

10 cm source: <http://www.drao.nrc.ca>

