

# Solar Bulletin

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS - SOLAR COMMITTEE

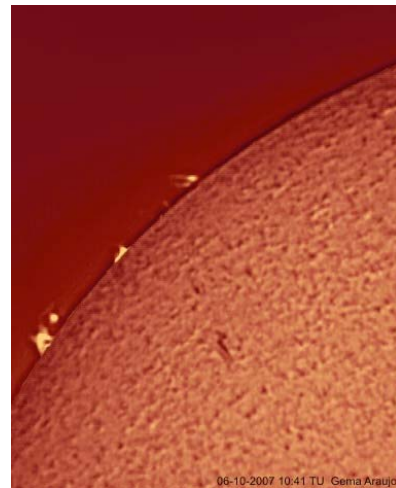
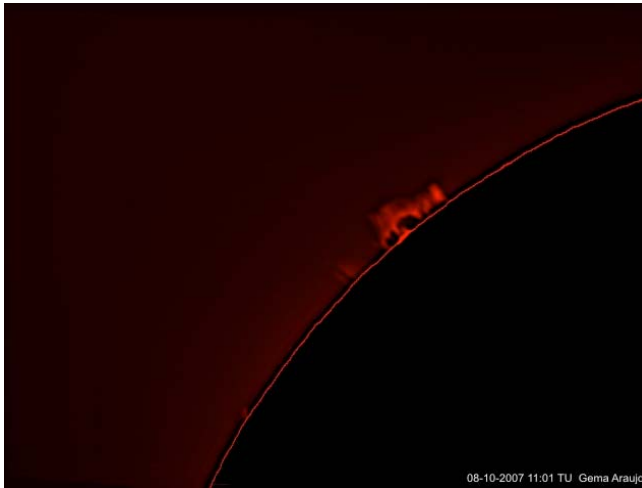


Paul Mortfield, Editor  
c/o AAVSO, 49 Bay State Rd  
Cambridge, MA 02138

Web: [www.AAVSO.org](http://www.AAVSO.org)  
Email: [Paul@IndustrialStars.com](mailto:Paul@IndustrialStars.com)  
ISSN 0271-8480

Volume 63 Number 10

October 2007



Gema Araujo caught these wonderful solar prominences on October 8, 2007 11:01UT and October 6, 10:41 UT respectively. More of Gema's images can be seen at <http://www.astrosurf.com/obsolar/>

Solar activity continues to be very low and just when you thought we hit minimum, we continue with low sunspot counts and no SID events recorded. You can also see the X-ray and other flux values at their lowest on the NOAA Spaceweather page. <http://www.swpc.noaa.gov/today.html>

I got a chance to read a book by Stuart Clark entitled "The Sun Kings, The unexpected tragedy of Richard Carrington and the tale of how modern astronomy began". It is an interesting account of how solar observing played a part in changing our perception leading to the Sun-Earth connection. More intriguing was how several dedicated amateur solar observers were able to make discoveries about the sun and solar cycle. Gema's photo at left was taken just as Carrington rotation 2062 began. Rotation #1 began on November 9, 1853

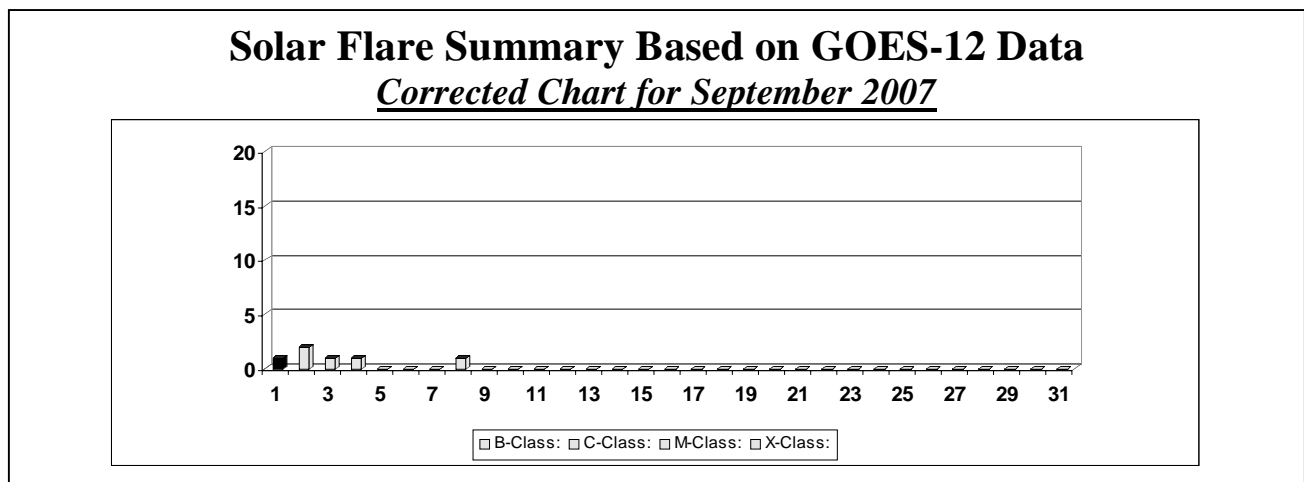
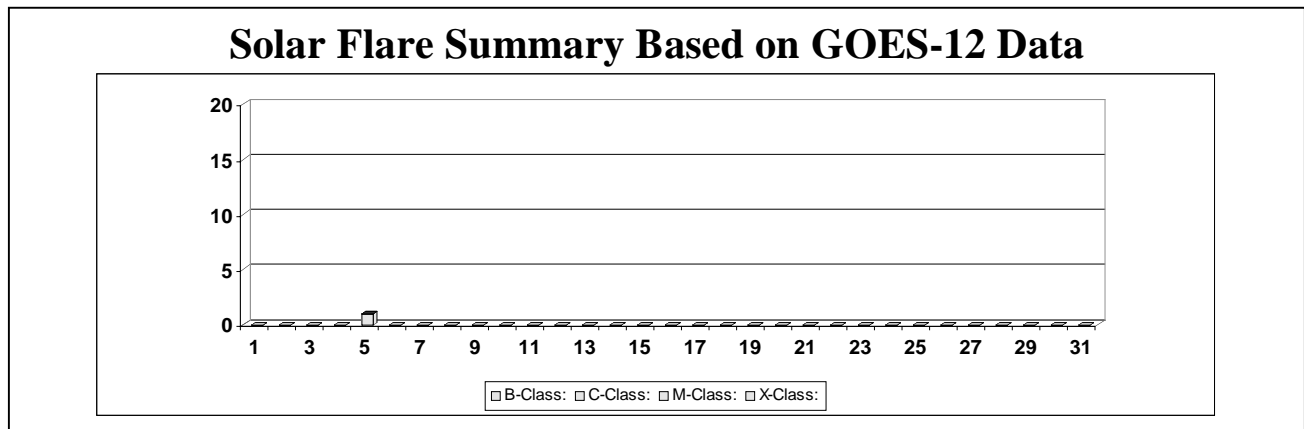
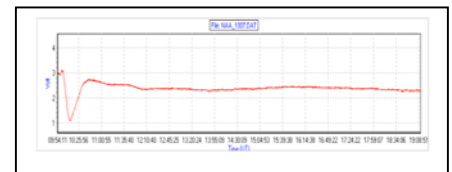
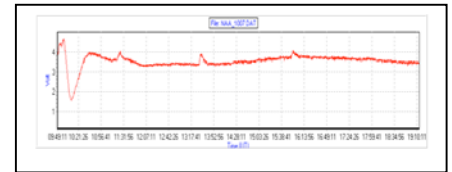
Remember to send me any solar drawings, SID flares or photos for me to include here.



# Solar Events

October was very very slow for SID events. There were no correlated events reported by observers and the GOES-12 satellite detected only one event. Do take note of the extra chart below. I somehow got the data for August mixed up with September and the chart was wrong last month. The one below is the correct chart for September 2007.

An odd thing happened to me this month. On October 7<sup>th</sup> I got a trace with three distinct SID events as can be seen on the upper graph to the right. To my amazement there were no X-Ray flares that day reported by GOES-12. I have no idea what may have caused these events. Maybe GRBs but I find this unlikely because they are so distinct and strong. Oddly enough, my other setup, as shown in the lower chart shows absolutely nothing. Granted this setup is not as sensitive as the other but odd that there is no correlation whatsoever. Any ideas would be appreciated.



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

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

Means      **29.9**      **1.3**      **0.9**

No. of Observers: 57

Total No. of Observations: 927

**Reporting Addresses:**

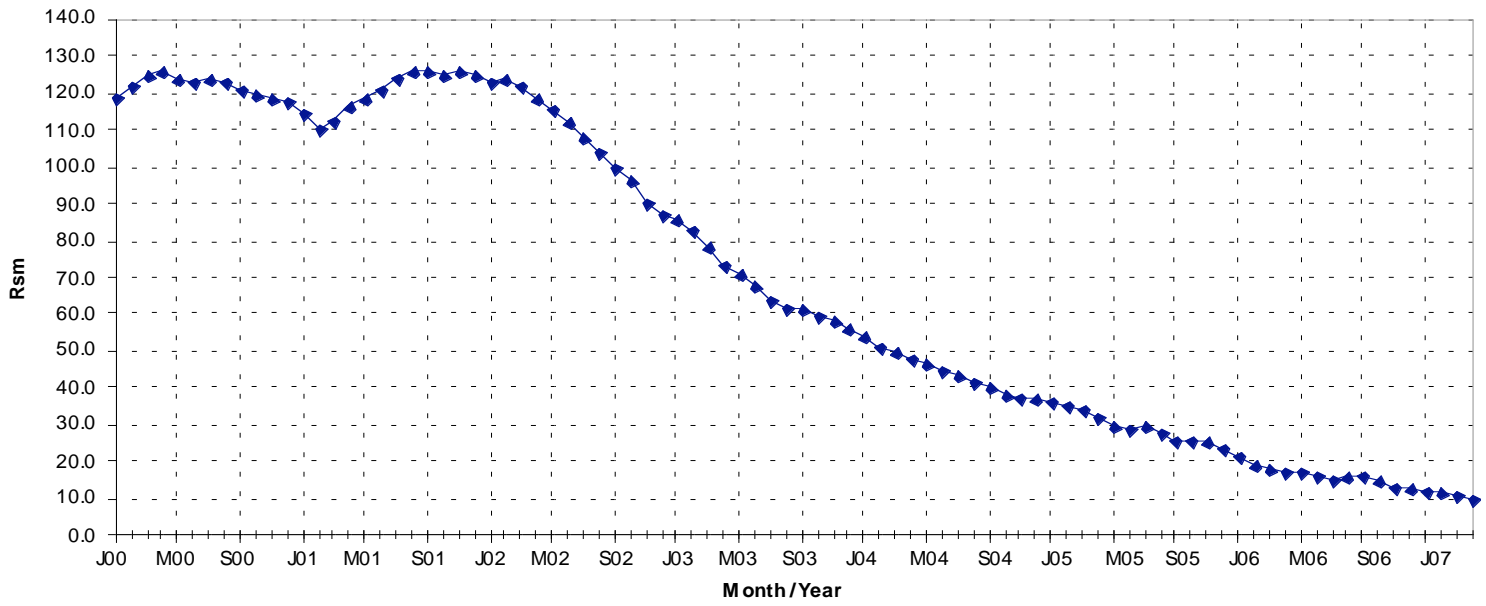
**Sunspot Reports – Email: solar@aavso.org Postal Mail: AAVSO,  
49 Bay State Rd. Cambridge, MA, 02138 Fax: 617-354-0665**

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

**October 2007 Sunspot Observers**

AAP	A. Abbott	5
AJV	J. Alonso	21
ARAG	G. Araujo	30
BARH	H. Barnes	13
BATR	R. Battaiola	5
BEB	R. Berg	16
BEDJ	J. Bedient	22
BLAJ	J. Blackwell	6
BMF	M. Boschat	21
BRAB	B. Branchett	28
BRAD	D. Branchett	12
BRAR	R. Branch	26
BROB	R. Brown	28
BVC	A. Buck	31
BYG	Y. Brovarets	18
CHAG	G. Morales	26
CKB	B. Cudnik	25
CLZ	L. Corp	15
CNT	D. Chantiles	8
COMT	T. Compton	15
CVJ	J. Carvajal	22
DEJV	J. van Delft	14
DGP	G. Dyck	11
FERJ	J. Fernandez	8
FLET	T. Fleming	28
GFT	F. Gobet	16
HALB	B. Halls	7
HAYK	K. Hay	8
HMQ	M. Harris	7
KAPJ	J. Kaplan	16
KROL	L. Krozel	3
KUZM	M. Kuzmin	1
LARJ	J. Larriba	15
LERM	M. Lerman	3
MARJ	J. Maranon	31
MCE	E. Mochizuki	20
MEU	E. Mason	7
MILJ	J. Miller	10
MMI	M. Moeller	12
OATS	S. Oatney	19
OBSO	IPS Observatory	15
RICE	E. C. Richardson	10
RITA	A. Ritchie	11
SCGL	G. Schott	20
SIMC	C. Simpson	11
STEM	G. Stemmler	15
STQ	N. Stoikidis	20
SUZM	M. Suzuki	23
SZUM	M. Szulc	27
TESD	D. Teske	24
TJV	J. Temprano	15
URBP	P. Urbanski	17
VARG	A. Vargas	23
VIDD	D. Vidican	17
WILW	W. Wilson	24
WRP	R. Wheeler	3
YESH	H. Yesilyaprak	23

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



10 cm Solar Flux and American Relative Sunspot Numbers (Ra) for October 2007  
10 cm source: <http://www.drao.nrc.ca>

