

Solar Bulletin

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS - SOLAR COMMITTEE

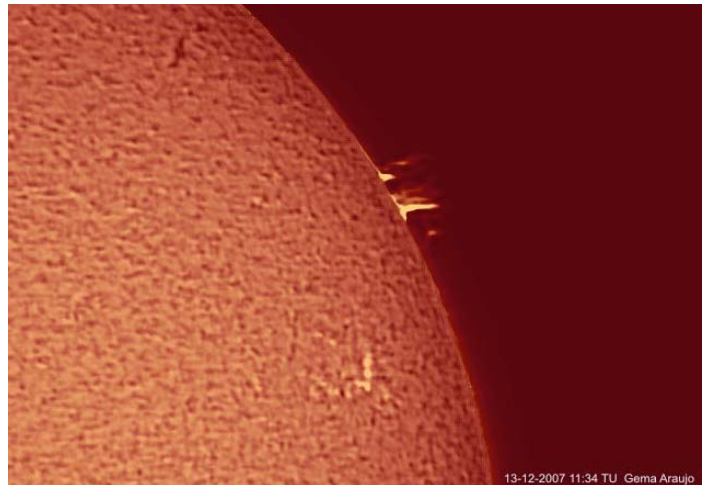
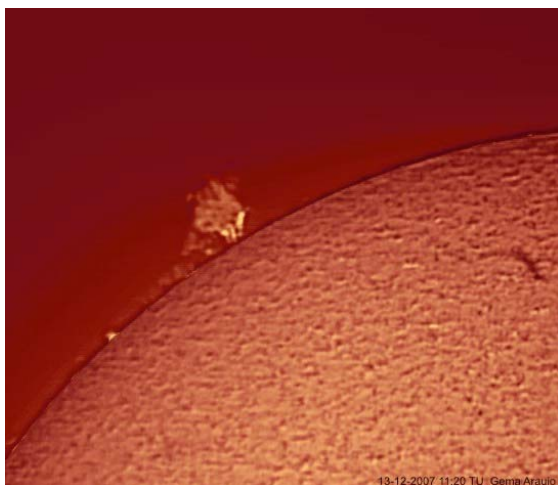
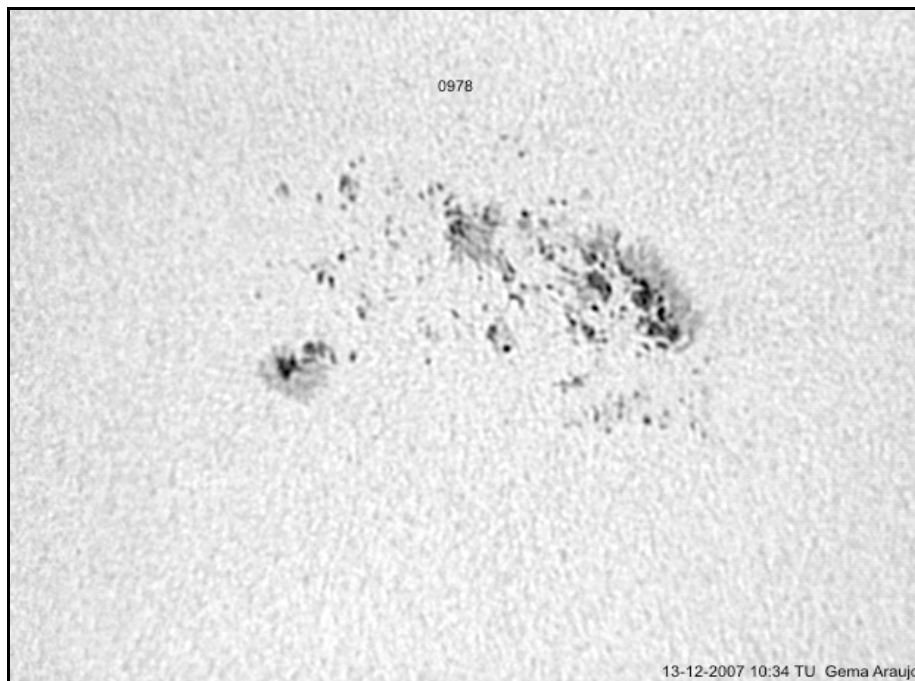


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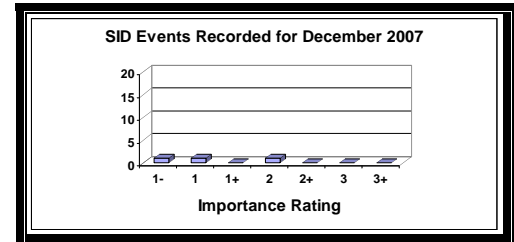
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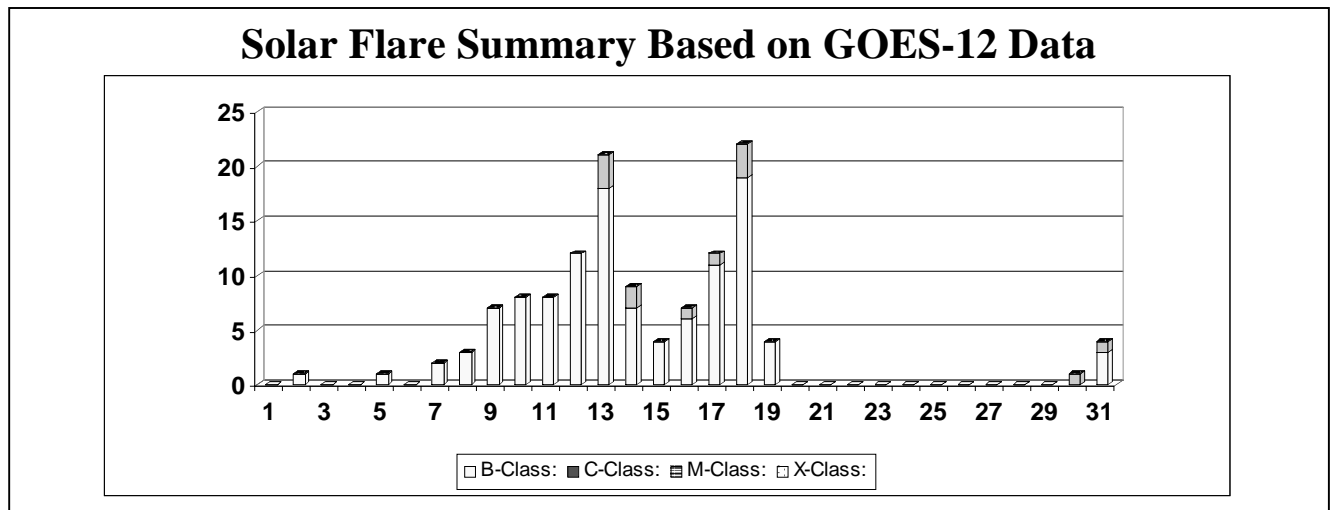


Finally some spots! Gema Araujo caught these wonderful solar images on December 13, 2007. The white light image shows active region 10978 at 10:34UT. The H-alpha images were taken at 11:20 and 11:34 UT respectively. The same day, the SID observers caught 3 events. More of Gema's images can be seen at <http://www.astrosurf.com/obsolar/>

Solar Events



Greetings and Happy 2008. The end of 2007 brought us our first burst of activity in a long while and the beginning of 2008 a new solar cycle – cycle 24. This is good news for SID observers after a long time with little activity to get excited about. Not that there was a lot of activity but it's a start. There were 3 correlated SID events reported - all of them on two days, the 13th and the 18th. This of course corresponds to the burst of activity as seen on the GOES-12 satellite data as can be seen below. The GOES satellite did record quite a bit more activity than it has seen in the past as well. There were 124 X-Ray events and although most of them were B-Class events there were 12 C-Class events recorded.



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

Day	N	Raw Mean	Ra
1	24	9	6
2	26	5	4
3	22	7	5
4	25	12	9
5	21	12	9
6	24	19	15
7	23	24	17
8	31	36	26
9	27	44	31
10	21	36	26
11	22	43	30
12	27	39	29
13	24	42	32
14	27	42	32
15	26	34	23
16	28	27	20
17	21	15	11
18	18	3	2
19	18	0	0
20	19	0	0
21	25	0	0
22	23	0	0
23	30	0	0
24	30	0	0
25	23	1	1
26	29	0	0
27	22	0	0
28	22	0	0
29	31	0	0
30	28	0	0
31	31	0	0

Means 25 14.5 10.6

No. of Observers: 55

Total No. of Observations: 768

Reporting Addresses:

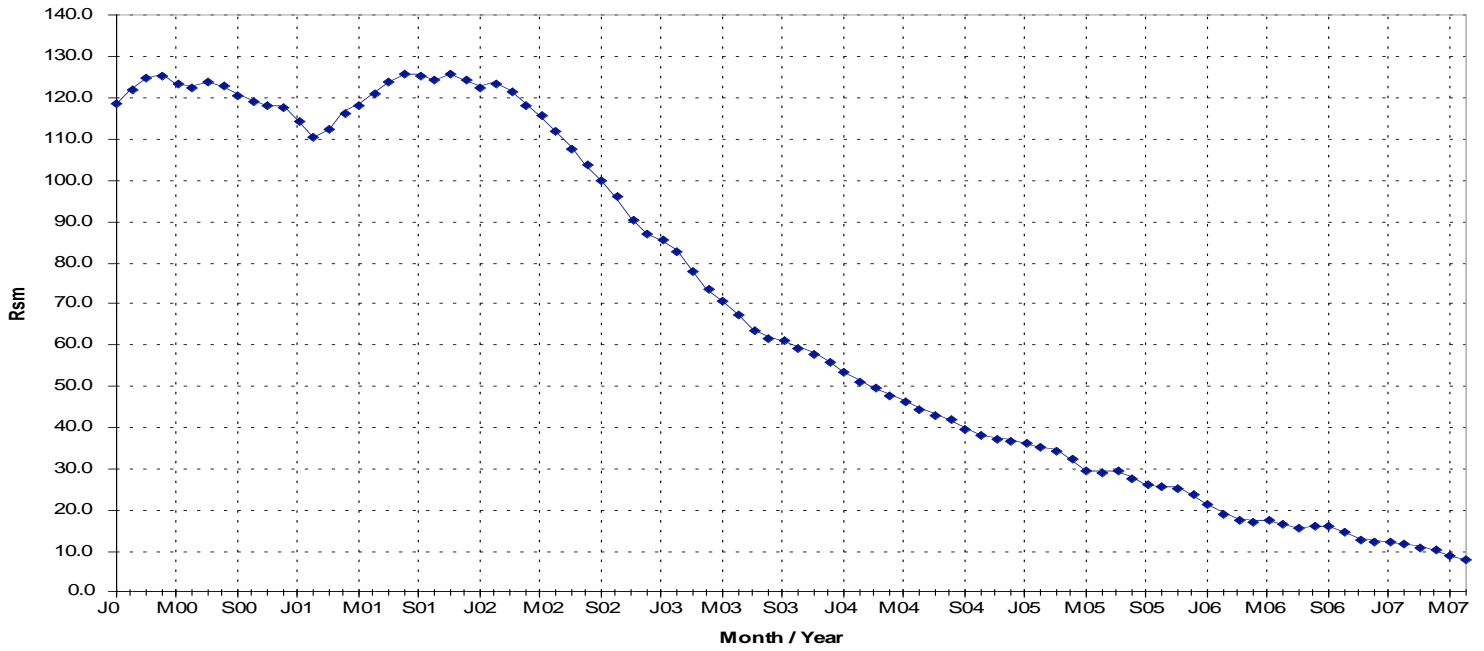
Sunspot Reports – Email: solar@aavso.org Postal Mail: AAVSO,
49 Bay State Rd. Cambridge, MA, 02138 Fax: 617-354-0665

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

December 2007 Sunspot Observers

AAP	A. Abbott	6
AJV	J. Alonso	8
ARAG	G. Araujo	27
BARH	H. Barnes	9
BATR	R. Battaiola	4
BEB	R. Berg	9
BERJ	J. Berdejo	14
BLAJ	J. Blackwell	1
BMF	M. Boschat	11
BRAB	B. Branchett	31
BRAD	D. Branchett	19
BRAR	R. Branch	27
BROB	R. Brown	25
BVC	A. Buck	31
CHAG	G. Morales	24
CKB	B. Cudnik	27
CLZ	L. Corp	16
CNT	D. Chantiles	7
CVJ	J. Carvajal	26
DEJV	J. van Delft	17
DGP	G. Dyck	8
DUBF	F. Dubois	19
FERJ	J. Fernandez	9
FLET	T. Fleming	22
FUJK	K. Fujimori	22
GFT	F. Gobet	6
HALB	B. Halls	6
HAYK	K. Hay	5
HMQ	M. Harris	19
KAPJ	J. Kaplan	7
KNJS	J. & S. Knight	13
KROL	L. Krozel	1
LARJ	J. Larriba	9
MARJ	J. Maranon	19
MCE	E. Mochizuki	20
MCHL	L. McHenry	1
MEU	E. Mason	10
MILJ	J. Miller	6
MMI	M. Moeller	10
OATS	S. Oatney	11
RICE	E. C. Richardson	9
RITA	A. Ritchie	5
SCGL	G. Schott	19
SIMC	C. Simpson	3
STEF	G. Stefanopoulos	6
STEM	G. Stemmler	13
STQ	N. Stoikidis	11
SUZM	M. Suzuki	25
SZUM	M. Szulc	9
TESD	D. Teske	22
TJV	J. Temprano	14
URBP	P. Urbanski	11
VARG	A. Vargas	15
VIDD	D. Vidican	5
WILW	W. Wilson	14
WRP	R. Wheeler	4
YESH	H. Yesilyaprak	21

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



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

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

