

# Solar Bulletin

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS - SOLAR COMMITTEE



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## Ode of the Solar Observers

At 4 million tons a second,  
You'd think that there might be,  
A little bit of action  
On the Solar disk to see.

But things are really slow-  
The view is mostly orange or white;  
And if it weren't for the chromospheres,  
It would be a boring sight.

We see Old Sol rise in the east  
And we check throughout the day;  
Thinking that a flare or spot  
Might be surfacing our way.

Alas, no spots! Alack, no flares!  
The numbers mostly zeroes!  
Among the solar observing group –  
It doesn't make for many heroes!

Minimum WILL come and  
Minimum WILL go-  
But those 4 million tons of hydrogen,  
For 5 billion years could flow.

By Susan Oatney

March has been pretty quiet for activity. Nothing in SID flares recorded again. We had a 35% increase in the number of solar observations over February which is great to see from our observers. However, the solar activity presented for us, were small single digit values. So has minimum arrived? Should we hold a raffle? Please keep up the constant vigil as the sun is always full of surprises and may sprout some sudden activity.

The STEREO spacecraft just published its first set of 3D solar images. You can see them at:  
[http://www.nasa.gov/mission\\_pages/stereo/news/stereo3D\\_press.html](http://www.nasa.gov/mission_pages/stereo/news/stereo3D_press.html)

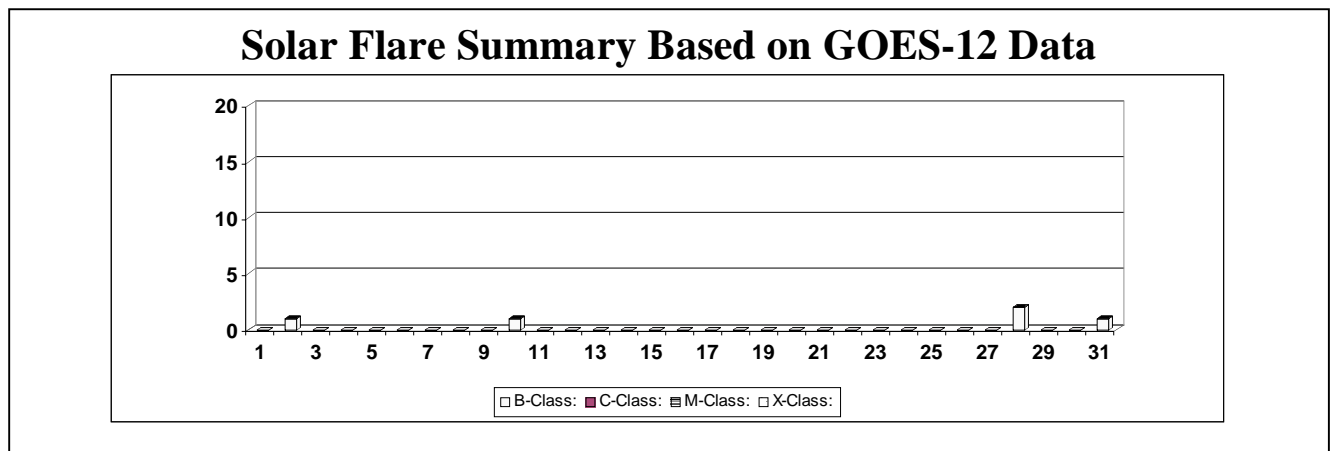
## NOTE:

Just a reminder to please submit drawings or photos you would like to see included in the solar bulletin. Please ensure they're submitted as jpegs.



# Solar Events

March was a very slow month for SID activity. In fact there were no correlated SID events reported by any observers. Even the GOES-12 data was sparse. There were only 5 X-Ray flares recorded and all of these were only B-Class events.



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

Day	N	Raw Mean	Ra
1	28	14	9
2	24	17	11
3	28	12	8
4	30	14	9
5	34	20	<b>13</b>
6	27	9	6
7	35	2	2
8	35	0	<b>0</b>
9	29	0	<b>0</b>
10	34	1	<b>0</b>
11	40	11	8
12	34	8	5
13	32	2	1
14	32	0	<b>0</b>
15	25	0	<b>0</b>
16	26	0	<b>0</b>
17	29	0	<b>0</b>
18	30	1	<b>0</b>
19	28	1	1
20	23	0	<b>0</b>
21	30	1	1
22	28	0	<b>0</b>
23	28	8	6
24	31	7	4
25	32	2	1
26	32	12	8
27	31	4	3
28	32	10	6
29	27	9	6
30	25	9	6
31	23	3	2

Means      **29.7**      **5.7**      **3.7**

No. of Observers: 59

Total No. of Observations: 922

**Reporting Addresses:**

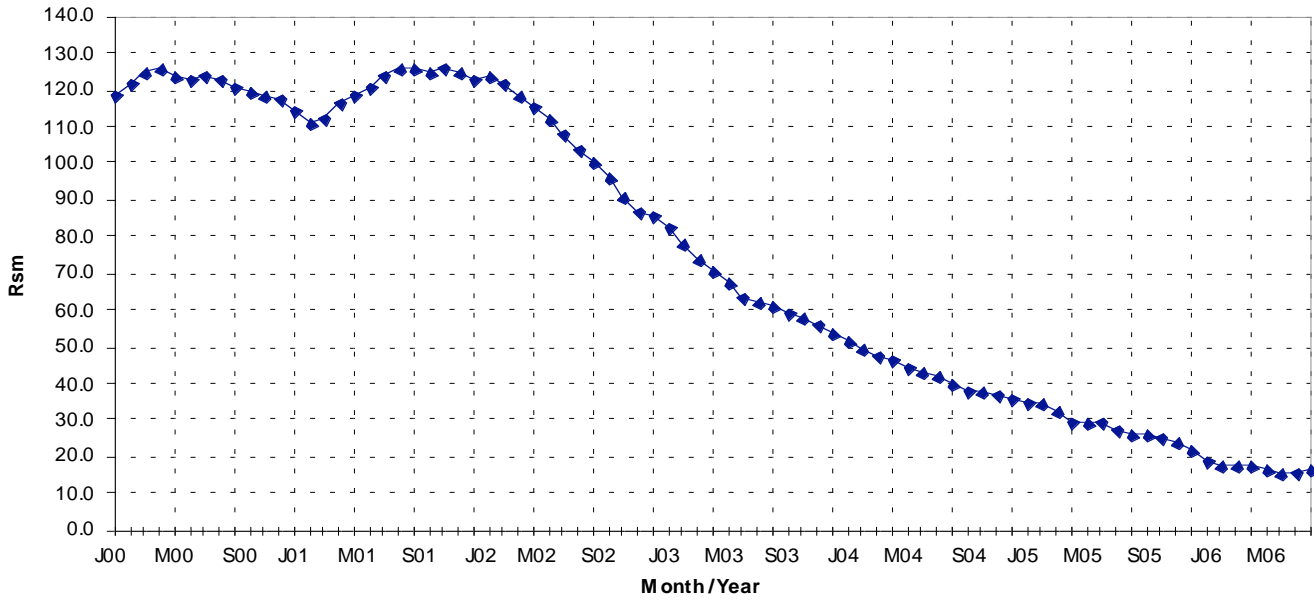
**Sunspot Reports – Email: solar@aavso.org Postal Mail: AAVSO,  
49 Bay State Rd. Cambridge, MA, 02138 Fax: 617-354-0665**

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

**March 2007 Sunspot Observers**

AAP	A. Abbott	19
AJV	J. Alonso	14
ARAG	G. Araujo	31
BARH	H. Barnes	11
BATR	R. Battaiola	6
BEB	R. Berg	6
BERJ	J. Berdejo	15
BLAJ	J. Blackwell	1
BMF	M. Boschat	19
BRAB	B. Branchett	27
BRAD	D. Branchett	21
BRAR	R. Branch	22
BROB	R. Brown	20
BYG	Y. Brovarets	32
CHAG	G. Morales	25
CKB	B. Cudnik	23
CLZ	L. Corp	6
COMT	T. Compton	7
CR	T. Cragg	29
DEJV	J. van Delft	11
DGP	G. Dyck	15
DUBF	F. Dubois	27
FERJ	J. Fernandez	11
FLET	T. Fleming	23
FUJK	K. Fujimori	25
GFT	F. Gobet	11
GOEM	M. Goetz	2
HALB	B. Halls	13
HAYK	K. Hay	16
KAPJ	J. Kaplan	18
KNJS	J. & S. Knight	11
KOR	R. Kinne	9
KROL	L. Krozel	2
KUZM	M. Kuzmin	5
LARJ	J. Larriba	19
LERM	M. Lerman	1
MARE	E. Mariani	5
MARJ	J. Maranon	12
MCE	E. Mochizuki	29
MCHL	L. McHenry	2
MEU	E. Mason	7
MMI	M. Moeller	24
OATS	S. Oatney	21
OBSO	IPS Observatory	17
PEKT	R. Pektas	18
RICE	E. C. Richardson	7
RITA	A. Ritchie	25
SCGL	G. Schott	26
SIMC	C. Simpson	7
STEF	G. Stefanopoulos	6
STQ	N. Stoikidis	21
SUZM	M. Suzuki	25
SZUM	M. Szulc	12
TESD	D. Teske	30
TJV	J. Temprano	6
URBP	P. Urbanski	22
VARG	A. Vargas	22
WILW	W. Wilson	23
WRP	R. Wheeler	2

Smoothed Mean Sunspot Numbers (Rsm) from January 2000 to September 2006  
(Waldmeier Method)



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

