

# Solar Bulletin

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS - SOLAR COMMITTEE



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Cambridge, MA 02138

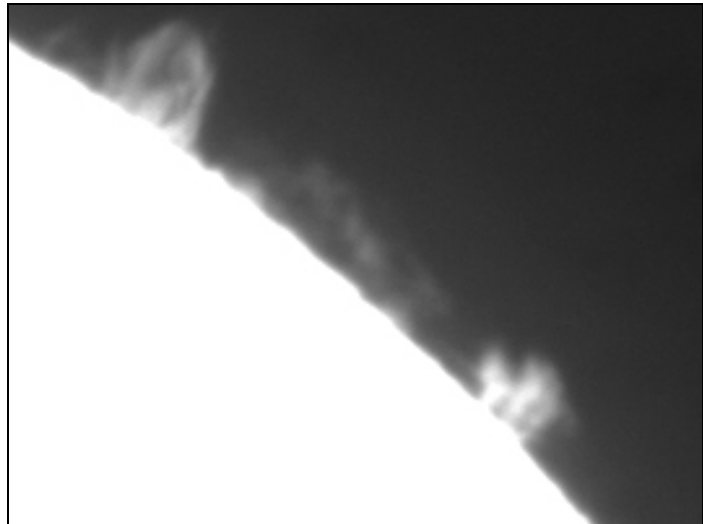
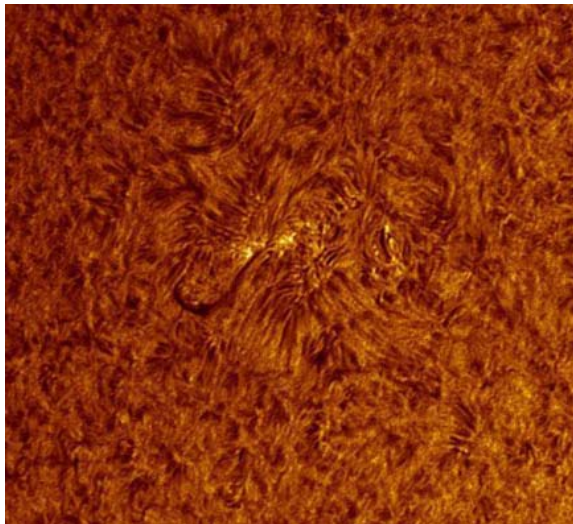
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The wonderful H-alpha image at left was taken by Javier Ruiz from Observatorio Astronomico de Cantabria, Spain on Feb 13, 2009 at 14:35UT. He used a Coronado SM90 on a TSA102 with a DMK41 camera. The exciting image of solar prominences at right was taken on Jan 6, 2009 by Dr. Douglas Allen of Dordt College in Sioux Center, Iowa. He used a Coronado PST and SBIG STV camera. Shows that during times of minimal solar activity there is still some to capture by our dedicated imagers.

Thanks again to all the dedicated observers who continue to patrol the sun and submit reports. Your data still counts and reflects the current status of this cycle. Don't forget to submit your images, drawings and SID plots to include in the bulletin.

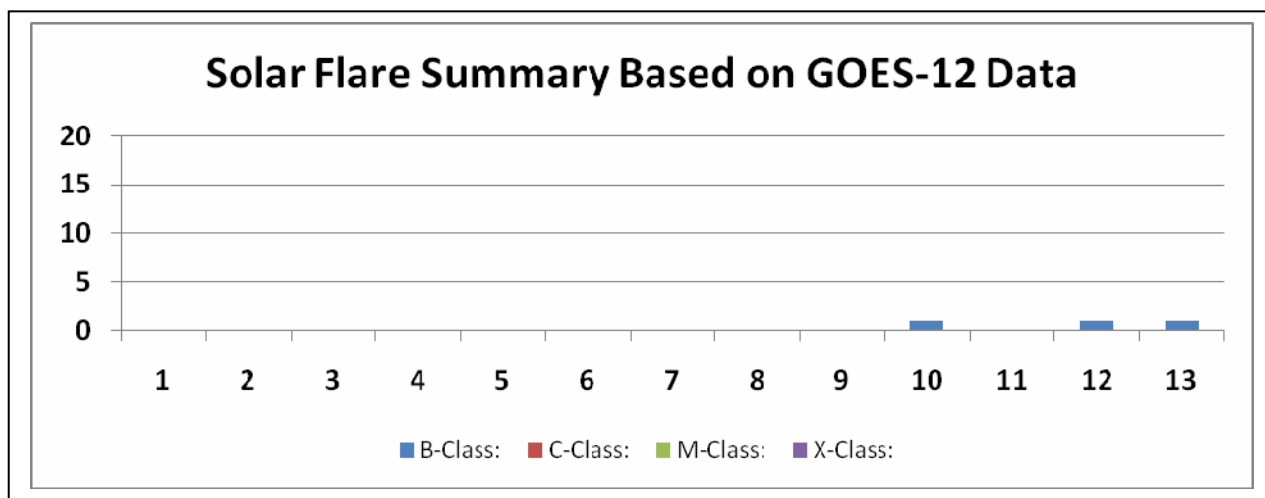
## Still looking for web software volunteers

We're looking to update our sunspot data submission process, and provide more real-time feedback to all our solar observers via the AAVSO website. We'd also like to help improve our visibility to the astronomy community for IYA 2009. If you have the experience and expertise and have some time to help the solar group, please contact me via email above.



# Solar Events

February was a very slow month again. There were 0 correlated SID events and the GOES-12 satellite only detected 3 B-Class flares between the 10<sup>th</sup> and the 13<sup>th</sup> of the month. Just about the same time as last month which is interesting. I wonder if it's the same underlying region of activity that keeps popping up spots? That's something to think about while we wish for more activity to grace our data charts. I would like to welcome new observer Gary Myers. Gary lives in Washington State and is monitoring NML. His observer ID is A124. Welcome to the group Gary. As always thanks to all of you for your continued contributions.



American Relative Sunspot Numbers (Ra) for  
February 2009 [**boldface** = maximum, minimum]

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

Means      **29.1**      1.1      **0.7**

No. of Observers: 56

Total No. of Observations: 814

**Reporting Addresses:**

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

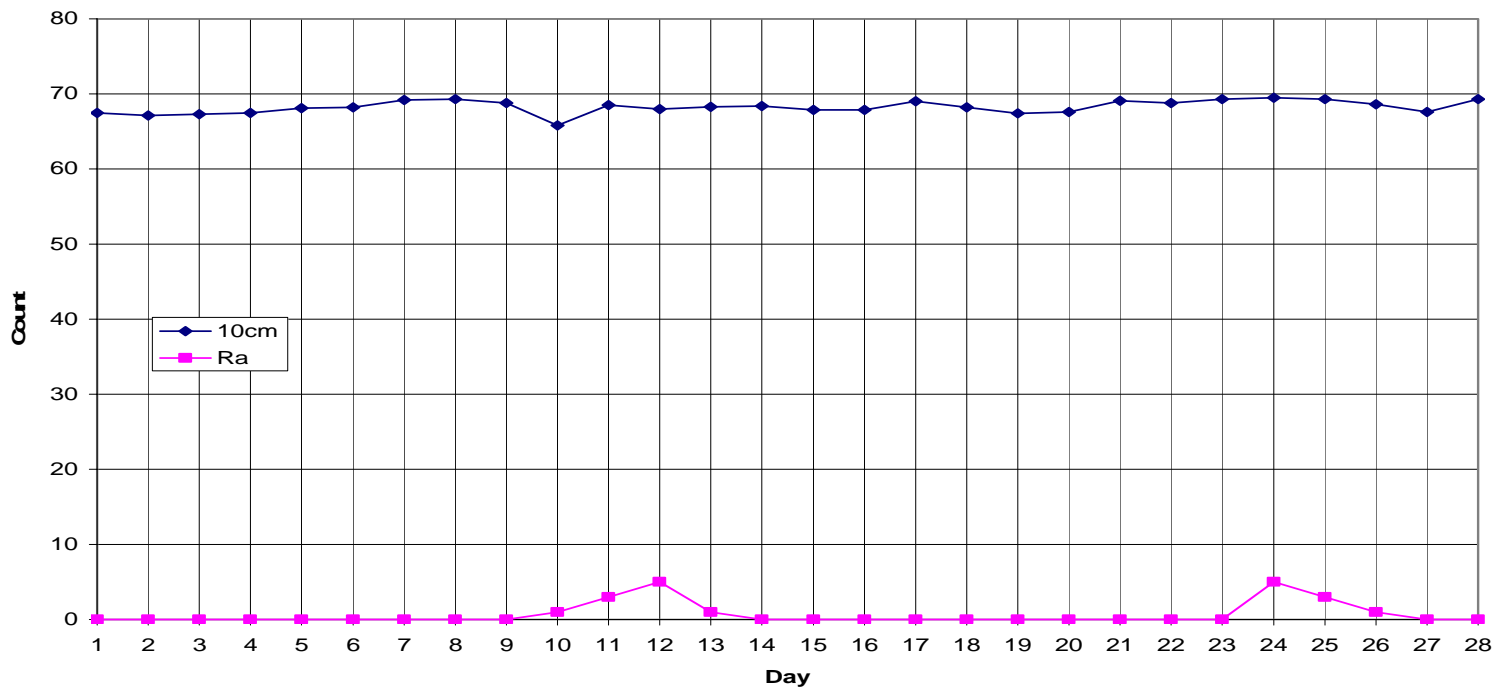
**SID Flare Reports – email: noatak@aol.com Postal Mail: Mike Hill,  
114 Prospect St., Marlboro, MA, 01752**

AAP	A. Abbott	16
AJV	J. Alonso	23
ANGR	R. Ang	13
ARAG	G. Araujo	28

BARH	H. Barnes	11
BEB	R. Berg	12
BEDJ	J. Bedient	9
BMF	M. Boschat	13
BRAB	B. Branchett	25
BROB	R. Brown	19
BVC	A. Buck	28
CHAG	G. Morales	20
CKB	B. Cudnik	24
CLZ	L. Corp	11
CNT	D. Chantiles	8
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DEKP	P. Dekelver	2
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HRUT	T. Hrutkay	7
JASK	K. Jaskulska	8
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KNJS	J. & S. Knight	23
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MARJ	J. Maranon	26
MCE	E. Mochizuki	20
MEU	E. Mason	2
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MMI	M. Moeller	13
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OBSO	IPS Observatory	19
RICE	E. Richardson	14
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SCGL	G. Schott	13
SIMC	C. Simpson	8
STEF	G. Stefanopoulos	3
STEM	G. Stemmler	12
STQ	N. Stoikidis	18
SUZM	M. Suzuki	24
SZUM	M. Szulc	14
TESD	D. Teske	21
TJV	J. Temprano	12
URBP	P. Urbanski	11
VARG	A. Vargas	17
VIDD	D. Vidican	12
WILW	W. Wilson	22
WIRP	P. Wirkus	1
WRP	R. Wheeler	5
YESH	H. Yesilyaprak	16

### 10 cm Solar Flux and American Relative Sunspot Numbers (Ra) for February 2009

10 cm source: [ftp://lynx.drao.nrc.ca/pub/solar/FLUX\\_DATA/fluxtable/rolling.txt](ftp://lynx.drao.nrc.ca/pub/solar/FLUX_DATA/fluxtable/rolling.txt)



### Smoothed Mean Sunspot Numbers (Rsm) from January 2000 to August 2008 (Waldmeier Method)

