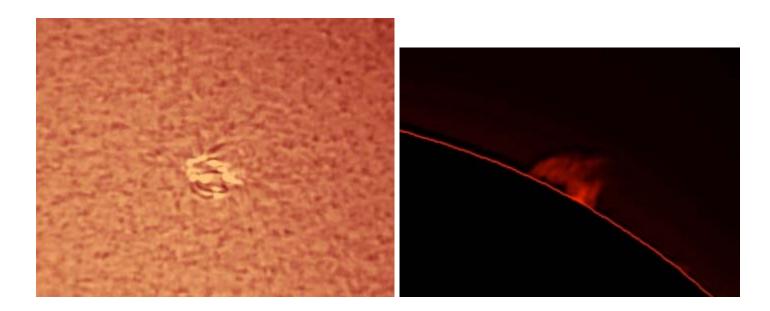
Solar Bulletin



THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS - SOLAR COMMITTEE

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Volume 65 Number 1 January 2009



There were a few sunspots again this month, and the Ra number doubled, but still very low. Gema Araujo of Spain obtained these wonderful recent solar images. The left H-alpha image taken of AR1010 on Jan 10, 2009 at 10:58UT, and the right prominence image taken the next day on Jan 11, 2009 at 11:25UT

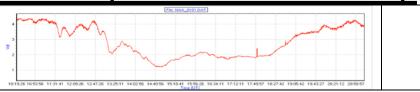
Thanks again to all the dedicated observers who continue to patrol the sun and submit reports. Your data still counts and reflects the current status of this cycle. Don't forget to submit your images, drawings and SID plots to include in the bulletin.

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.

Sudden Ionospheric Disturbance Report

Michael Hill, SID Analyst 114 Prospect St Marlborough, MA 01752 USA noatak@aol.com



Sudden Ionospheric Disturbances (SID) Recorded During January 2009

Date	Max	lmp	Date	Max	Imp	Date	Max	lmp
Date	IVIAX	IIIIP	Date	IVIAX	ШР	Date	IVIGA	Шр
			+					
			-					

Observer	Code	Station(s) monitored	Observer	Code	Station(s) monitored
A Clerkin	A29		F Adamson	A122	
P King	A80				
M Hill	A87				
L Anderson	A91				
R Battaiola	A96				
J Wallace	A97				
M King	A99				
L. Obs	A107				
P Mortfield	A108				

1+: 26-32

1: 19-25

1-: <19

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

A118

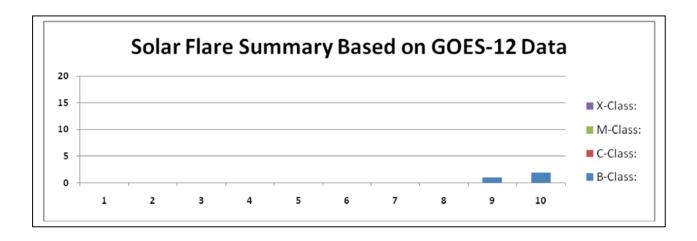
Importance rating: Duration (min)

L Loudet

- 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

January was a very slow month again. There were 0 correlated SID events and the GOES-12 satellite only detected 3 flares around the 10^{th} of the month. I'd like to welcome new observer Frank Adamson. Frank lives in Australia and is monitoring NWC. His observer ID is A122. Welcome to the group Frank. As always thanks to all of you for your continued contributions. It is slow but with the lull in activity we are getting new observers. That's good to see. I hope you all have a good year ahead and hopefully by the end of the year the solar activity will have started to pick up on a regular basis.



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

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

Means 26.3 1.9 1.3

No. of Observers: 55

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	8
AJV	J. Alonso	15
ANGR	R. Ang	4
ARAG	G. Araujo	27

BARH	H. Barnes	15
BERJ	J. Berdejo	11
BMF	M. Boschat	16
BRAB	B. Branchett	29
BROB	R. Brown	26
BVC	A. Buck	31
CHAG	G. Morales	27
CKB	B. Cudnik	28
CLZ	L. Corp	10
CNT	D. Chantiles	13
CVJ	J. Carvajal	8
DEKP	P. Dekelver	16
DGP	G. Dyck	5
DUBF	F. Dubois	19
FERJ	J. Fernandez	13
FLET	T. Fleming	22
FUJK	K. Fujimori	22
HAYK	K. Hay	12
HMQ	M. Harris	25
HRUT	T. Hrutkay	7
JASK	K. Jaskulska	5
KAPJ	J. Kaplan	26
KNJS	J. & S. Knight	26
KROL	L. Krozel	1
LARJ	J. Larriba	11
MARE	E. Mariani	4
MARF	F. Mariuzza	17
MARJ	J. Maranon	1
MCE	E. Mochizuki	20
MEU	E. Mason	10
MILJ	J. Miller	12
MMI	M. Moeller	16
OATS	S. Oatney	21
OBSO	IPS Observatory	11
RICE	E. Richardson	9
RITA	A. Ritchie	7
SCGL	G. Schott	21
SIMC	C. Simpson	6
STEM	G. Stemmler	16
STQ	N. Stoikidis	12
SUZM	M. Suzuki	26
SZUM	M. Szulc	9
TESD	D. Teske	20
TJV	J. Temprano	8
URBP	P. Urbanski	12
VARG	A. Vargas	26
VIDD	D. Vidican	10
WILW	W. Wilson	14
WIRP	P. Wirkus	1
WRP	R. Wheeler	6
YESH	H. Yesilyaprak	21

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

10 cm source: ftp://lynx.drao.nrc.ca/pub/solar/FLUX_DATA/fluxtablerolling.text

