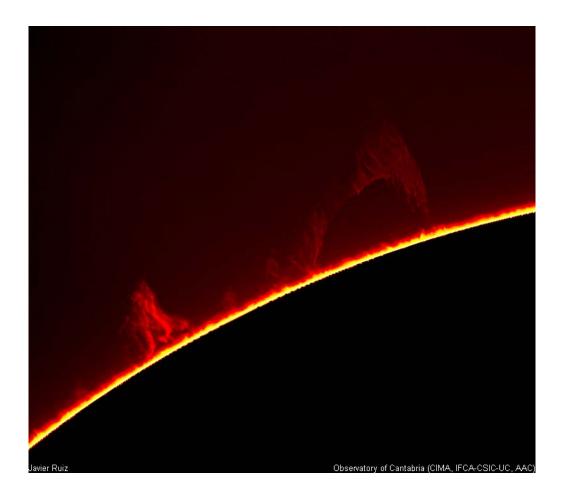
Solar Bulletin



THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS - SOLAR COMMITTEE

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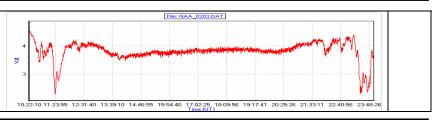


The wonderful H-alpha image was taken by Javier Ruiz from Observatorio Astronomico de Cantabria, Spain on March 13, 2009 at 14:55UT. He used a Coronado SM90 on a TSA102 with a DMK41 camera.

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.

Sudden Ionospheric Disturbance Report

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



Sudden Ionospheric Disturbances (SID) Recorded During March 2009

(Analysis performed by Michael Hill, SID Analyst)									
Date	Max	Imp	Date	Max	Imp		Date	Max	Imp
						Ī			
				NO					
				SID					
				Events					
			1						
		•			•				
Importance ra	ting: Duration	n (min)	-: <19 1:	19-25 1+: 2	26-32 2	: 33-45	2+: 46-85	3: 86-125	3+: >12

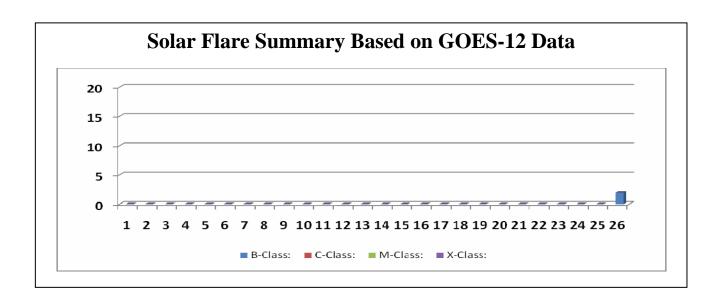
Observer	Code	Station(s) monitored	Observer	Code	Station(s) monitored
A Clerkin	A29		L Loudet	A118	
P King	A80		JP Godet	A119	
M Hill	A87		F Adamson	A122	
L Anderson	A91		G Myers	A124	
R Battaiola	A96				
J Wallace	A97				
M King	A99				
F Steyn	A102				
L. Obs	A107				
P Mortfield	A108				

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

- 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

March was another slow month with 0 correlated SID events. There was only a single X-Ray flare detected by the GOES-12 spacecraft and that was only a B Class event. On the upside we continue to have a fair amount of observers reporting in on a regular basis so at least you all haven't lost interest yet.



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

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

Means 27.6 0.5 0.3

No. of Observers: 51

Total No. of Observations: 856

Reporting Addresses:

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

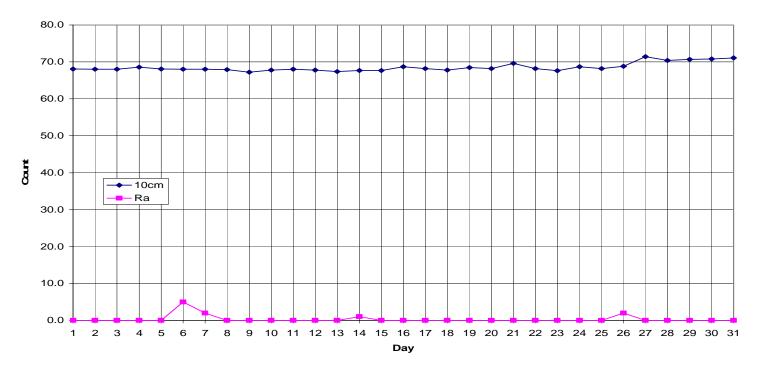
SID Flare Reports – email: noatak@aol.com Postal Mail: Mike Hill, 114 Prospect St., Marlboro, MA, 01752

AAP	A. Abbott	14
AJV	J. Alonso	28
ANGR	R. Ang	19
ARAG	G. Araujo	30

BARH	H. Barnes	15
BEB	R. Berg	9
BERJ	J. Berdejo	14
BLAJ	J. Blackwell	1
BMF	M. Boschat	17
BRAB	B. Branchett	31
BROB	R. Brown	27
BVC	A. Buck	31
CHAG	G. Morales	27
CKB	B. Cudnik	24
CLZ	L. Corp	14
CNT	D. Chantiles	16
COMT	T. Compton	6
CVJ	J. Carvajal	18
DEKP	P. Dekelver	14
DFS	S. Dufoer	16
DGP	G. Dyck	3
DUBF	F. Dubois	27
FERJ	J. Fernandez	24
FLET	T. Fleming	14
FUJK	K. Fujimori	24
HAYK	K. Hay	24
HMQ	M. Harris	6
HRUT	T. Hrutkay	12
JASK	K. Jaskulska	5
KAPJ	J. Kaplan	19
KROL	L. Krozel	3
LARJ	J. Larriba	16
MARE	E. Mariani	6
MARF	F. Mariuzza	18
MCE	E. Mochizuki	26
MMI	M. Moeller	10
OATS	S. Oatney	14
OBSO	IPS Observatory	20
RICE	E. Richardson	23
RITA	A. Ritchie	18
SCGL	G. Schott	26
SIMC	C. Simpson	13
STEM	G. Stemmler	13
SUZM	M. Suzuki	25
TESD	D. Teske	25
TJV	J. Temprano	20
URBP	P. Urbanski	19
VIDD	D. Vidican	6
WILW	W. Wilson	21
WIRP	P. Wirkus	2
WRP	R. Wheeler	3

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

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



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

