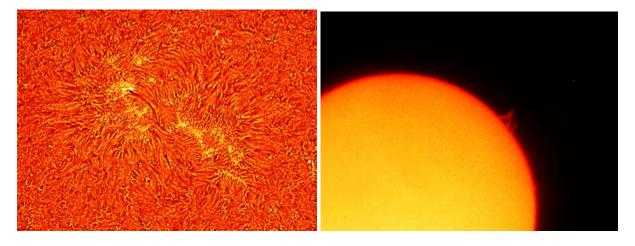
Solar Bulletin



THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS - SOLAR COMMITTEE

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April images of sunspot activity at left in H-alpha taken by Javier Ruiz Fernandez of the Observatorio de Cantabria, on April 24 at 16:22UT. The solar prominence image at right was taken by Gerald Dyck of Assonet, MA, on April 3 at 14:00UT. Thank you to our members' photo submissions.

Sunspot Coordinator Needed

We're looking for a volunteer to take over the sunspot analysis functions of the solar group. If you can spare 3-4 hours per month to collate and generate the sunspot report. We've been trying to streamline and automate much of the functionality to make it easier for a new coordinator to handle the tasks. Please contact me at Paul@theDDO.ca if interested.

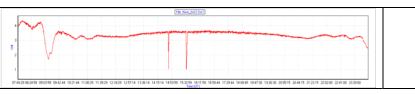
Notice to all Sunspot Observers

Beginning in March 2010 all sunspot reports need to be submitted electronically in the official format using the SolObs program (Windows) or the Sunkey program (DOS) or manual entry in the proper text format). The programs are available at: http://www.aavso.org/observing/programs/solar/solarsoftware.shtml
Sunspot reports must be submitted by the **10th day** of the following month to be included in the Bulletin.

Thank you to our sunspot and SID observers for submitting their observations.

Sudden Ionospheric Disturbance Report

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



Sudden Ionospheric Disturbances (SID) Recorded During April 2010

Date	Max	Imp	Date	M	lax	Imp	Date	Max	Imp
100430	1936	1+	Bato	- ''	iux	шр	Baio	Max	
100430	1550	+ ''							
		+						+	
			_					-	
								1	
								1	
		+						+	
							-		
			_						

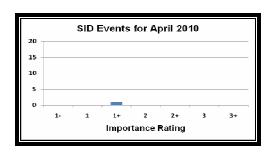
Observer	Code	Station(s) monitored	Observer	Code	Station(s) monitored
M Hill	A87	NAA			
P Campbell	A100	NLK			
RHowe	A121	NML			
F Adamson	A122	NWC			
S Oatney	A125	NML			
·					
			1		

Other Observers Reporting: A29, A80, A96, A97, A99, A102, A108, A112, A118, A119, A124

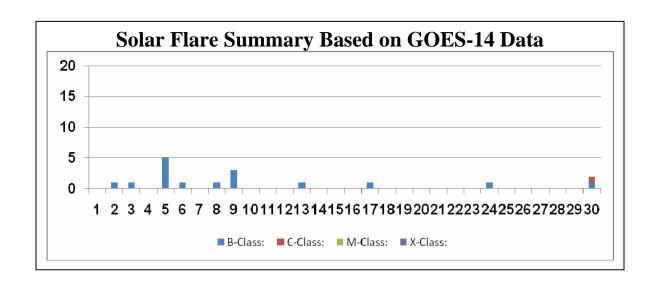
The events listed above meet at least one of the following criteria

- 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



April turned out to be a very slow month for SIDs again. I was surprised to see this after the string of active months we've had lately but this only brought to bear the reality that the sun, although starting up it's activity level for cycle 24, isn't by any means into a real active period and this kind of month should not be a surprise at all. There was only 1 correlated SID event and this corresponds well with the very small count of X-Ray flares. There were only 17 recorded by the GOES spacecraft and all but one were B-Class. One was a C-Class event on the last day of the month. A parting shot from the sun before fading back to quiescence again.



American Relative Sunspot Numbers (Ra) for April 2010 [**boldface = maximum, minimum**]

Day	N	Raw Mean	Ra
1	33	27	19
2	35	28	20
3	33	26	19
4	35	30	20
5	32	33	25
6	28	31	23
7	34	25	19
8	33	19	14
9	30	11	8
10	38	6	5
11	37	7	5
12	35	14	10
13	32	9	6
14	31	2	1
15	28	0	0
16	30	0	0
17	31	0	0
18	34	0	0
19	31	0	0
20	31	0	0
21	30	4	3
22	28	3	3
23	25	0	0
24	34	0	0
25	28	3	3
26	27	0	0
27	27	1	1
28	36	4	3
29	33	0	0
30	25	7	4

Means 31.5 9.7 7.0

No. of Observers: 51

Total No. of Observations: 944

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
AAX	A.Amorim	7
AJV	J.Alonso	19
ANGR	R.Ang	11
ARAG	G.Araujo	29
ASA	S.Aguirre	9
BARH	H.Barnes	11
BATR	R.Battaiola	6
BEB	R.Berg	27
BERJ	J.Berdejo	11
BLAJ	J.Blackwell	11
BMF	M.Boschat	15
BRAB	B.Branchett	29
BVC	A.Buck	30
BXD	A.Burda	16
CHAG	G.Morales	29
CKB	B.Cudnik	22
CLZ	L.Corp	8
CNT	D.Chantiles	11
CVJ	J.Carvajal	12
DELS	S.Delaney	7
DGP	G.Dyck	24
DUBF	F.Dubois	30
FAM	F.Mariuzza	17
FERJ	J.Fernandez	25
FLET	T.Fleming	22
HAYK	K.Hay	19
HMQ	M.Harris	16
JASK	K.Wirkus	23
KAPJ	J.Kaplan	22
KNJS	J.Knight	26
LEVM	M.Leventhal	23
MARE	E.Mariani	10
MILJ	J.Miller	22
MMI	M.Moeller	25
OATS	S.Oatney	21
OBSO	IPS.Culgoora	14
SCGL	G.Schott	28
SDP	D.Sharples	1
SIMC	C.Simpson	13
STEM	G.Stemmler	17
STQ	N.Stoikidis	18
SUZM	M.Suzuki	22
TESD	D.Teske	26
TJV	J.Temprano	13
URBP	P.Urbanski	29
VARG	A.Vargas	28
VIDD	D.Vidican	18
WILW	W.Wilson	26
WRP	R.Wheeler	3
YESH	H.Yesilyaprak	29

AAP

A.Abbott

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