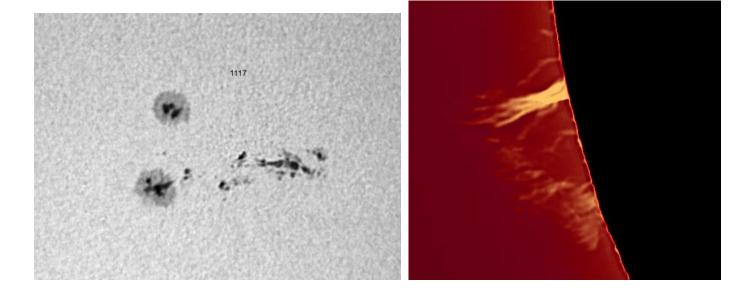
Solar Bulletin

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS - SOLAR COMMITTEE

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October provided some wonderful solar activity in both radio and optical wavelengths as seen in these images by Gema Araujo of Spain. The white light image on the left of AR1117 was taken on October 25, 2010 at 09:18UT. The image on right of prominences was taken the following day October 26, 2010 at 08:47UT.

Solar Section Chairperson Needed ASAP

It is with deep regret that after 4 years of being chair of this section I will have to step down due to increased business responsibilities and travel. A volunteer is needed to step forward and lead the combined solar group and be editor of the monthly solar bulletin. This section has a long history in contributing the monthly American Relative Sunspot Number (Ra) and the Sudden Ionospheric Disturbance (SID) solar flare radio reports. If you can spare 4 hours per month and wish to take on the leadership of this section, please contact me at Paul@theDDO.ca I will be available to assist in the transition over the next several months to get the new chairperson up to speed. Thank You.



October 2010

Sudden Ionospheric Disturbance Report

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Sudden Ionospheric Disturbances (SID) Recorded During October 2010

Date	Max	Imp	Date	Max	Imp	Date	Max	Imp
101001	1412	1	101031	0435	2			
101004	1638	2+	101031	0449	2+			
101009	2024	1						
101010	0000	1-						
101010	2354	1-						
101016	1912	2+						
101016	1929	1-						
101017	0901	2+						
101017	1100	2+						
101017	1744	2						
101018	0701	1-						
101018	1139	2+						
101019	0656	1						
101019	2157	1						
101020	0252	1-						
101021	0203	2						
101024	0342	3+						
101024	2011	1+						
101025	1832	1						
101026	0138	2+						
101026	0815	1-						
101027	0610	1						
101027	1703	2+						
101029	0314	1+						
101031	0321	1-						

Observer	Code	Station(s) monitored
A Clerkin	A29	NAA
M Hill	A87	NAA
J Wallace	A97	NAA
F Steyn	A102	NWC
L Loudet	A118	GQD NAA NSY
J Godet	A119	GBZ GQD ICV
R Howe	A121	NML
F Adamson	A122	NWC
G Myers	A124	NLK
S Oatney	A125	NML

Observer Code

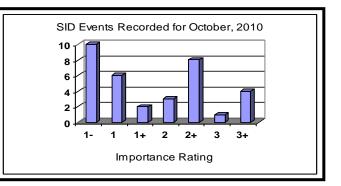
Station(s) monitored

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)

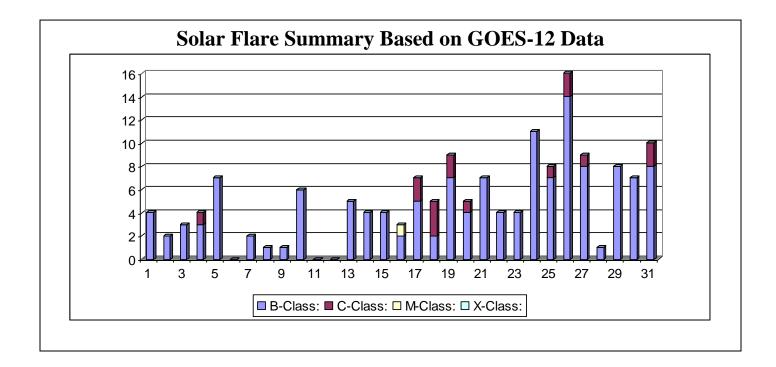




There were 157 solar flares measured by GOES-8/14, 14 of which were C class flares, and one M class flare. Of the twelve AAVSO SID Observers who submitted reports, ten recorded October events.

There were 141 B class flares this month, and comparing September's, 85 flares/7 C class, October shows a rise in flare activity. The Importance Ratings for October flares were on average greater than the September Importance Ratings.

Since the AAVSO has recently updated the website, we are also looking for ways to improve the web pages for the SID Division. If you are aware of changes that should be made or ways that we could improve the pages, your comments and suggestions would be welcome and can be emailed to Rodney Howe at <u>ahowe@fri.com</u>



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

Day	N	Raw Mean	Ra
1	23	30	20
2	23	26	20
3	21	25	18
4	25	13	9
5	23	6	4
6	23	0	0
7	26	0	0
8	28	0	0
9	26	6	3
10	29	13	9
11	29	13	9
12	25	13	9
13	27	21	15
14	19	38	25
15	21	39	28
16	24	45	32
17	31	52	37
18	23	52	35
19	24	54	39
20	27	45	32
21	26	36	26
22	23	35	26
23	22	41	30
24	21	55	41
25	21	60	43
26	25	57	39
27	22	31	22
28	22	27	19
29	21	26	19
30	28	29	20
31	21	32	21
Means	24.2	29.6	21.0

Total Observers:47Total Observations:749

Initials	Name	# of Obs.
AAP	A. Patrick Abbott	2
AAX	Alexandre Arorim	8
AJV	J. Alonso	15
ARAG	Gema Araujo	30
ASA	Salvador Aguirre	24
BARH	Howard Barnes	16
BEB	Ray Berg	18

BERJ	Jose Alberto Berdejo	9
BMF	Michael Boschat	21
BRAB	Brenda Branchett	28
BRAF	Raffaello Braga	12
BROB	Robert Brown	26
BVC	Alan Buck	31
CHAG	German Chavas Morales	30
CLZ	Corp Laurent	4
CNT	Dean Chantiles	8
DELS	Susan Delaney	10
DEMF	Frank Dempsey	2
DGP	Gerald Dyck	14
DUBF	Franky Dubois	23
FAM	Fabio Mariuzza	7
FERJ	Javier Ruiz Fernandez	15
FLET	Tom Fleming	26
FUJK	K. Fujimori	18
HALB	Brian Halls	4
HAYK	Kim Hay	10
HMQ	Mark Harris	11
КАРЈ	John Kaplan	27
KNJS	James & Shirley Knight	26
KROL	Larry Krozel	1
LEVM	Monty Leventhal	16
MARE	Enrico Mariani	3
MILJ	Jay Miller	16
MMI	Michael Moeller	26
OATS	Susan Oatney	13
OBSO	IPS Observatory	10
RICE	E. C. Richardson	15
SCGL	Gerd-Lutz Schott	15
SIMC	Clyde Simpson	10
STQ	Nick Stoikidis	9
TESD	David Teske	30
VLT	Javier Temprano	3
URBP	Piotr Urbanski	26
VARG	A.Gonzalo Vargas	25
WILW	William M. Wilson	29
WIRP	Piotr Wirkus	8
YESH	Hulya Yesilyaprak	19

Reporting Addresses:

Sunspot Reports – Kim Hay, Email: solar@aavso.org

SID Solar Flare Reports – Rodney Howe, Email: ahowe@frii.com