Solar Bulletin



THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS SOLAR COMMITTEE

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Here are the results of a software survey our sunspot observers responded to for how they might like to see a new set of web based data entry forms to replace the aging SUNKEY and SolObs software:

> 1) If we create an AAVSO web based data entry form will you use it? Yes, No.

94% say yes (N=35)

> 2) If not, why not?

If I have to enter the same data twice, I won't be happy

It means this information can not be shared with other observers and observing organizations around the World.

> 3) Would you prefer to enter your observations day by day (on-line as you make them),

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60% say day-to-day

> Or wait until the end of the month to create a report?

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40% say monthly

> 4) Do you submit your sunspot observations to other organizations?

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63% submit data to other organizations

> 5) If so, please name them:

SIDC and a Dutch organisation:

SIDC Brussels and CV Norway:

SIDC, CV-Helios Net (Norway), Inter Sol (Germany) and my astronomical club: Agrupaci¢n Astron¢mica de Sabadell (one of the most important in Spain)

SIDC in Belgium

SIDC

Agrupacion Astronomica de Sabadell http://www.astrosabadell.org/ and Parhelio http://www.parhelio.com/

Tom Fleming

SIDC in Belgium and the BAA England

ALPO, CV-Helios Network,

SIDC and Solar Observer Society

SIDC, CV, SONNE, INTER-SOL, BAA, GRSI, TOS

Parhelio.com http://www.parhelio.com/wolf.html

ALPO and BAA Solar sections

InterSol in Germany, to ASSA in South Africa and two Solar Observatories in Germany and New Zealand

NEOA-JBS (Nucleo de Estudo e Observacao Astronomica "Jose Brazilicio de Souza")

UAI (Unione Astrofili Italiani - www.uai.it solar section)

SIDC, Parhelio (www.parhelio.com), Agrupaci¢n Astron¢mica C ntabra, Agrupaci¢n Astron¢mica de Sabadell.

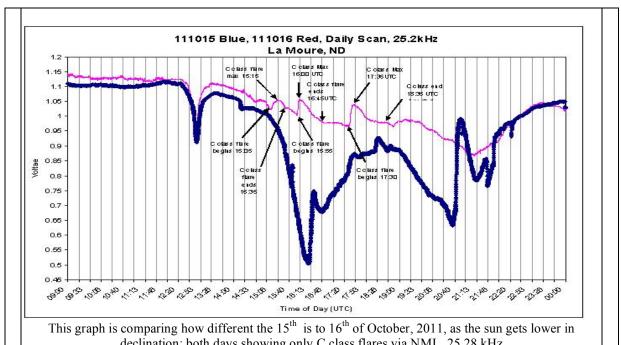
BAA, GRUPPO SOLE ITALIA (http://grupposole.astrofili.org/)

SIDC

SIDC, NGDC

BAA

Sudden Ionospheric Disturbance Report



declination: both days showing only C class flares via NML, 25.28 kHz

Sudden Ionospheric Disturbances (SID) Records During October, 2011

Date	Max	Imp	Date	Max	Imp	Date	Max	Imp
111001	0447	1	111012	1043	2+	111019	1849	2
111001	0937	1-	111012	1138	2+	111019	2038	1
111001	0953	3+	111012	1421	2+	111020	0322	2+
111001	0959	2+	111012	1643	2	111020	1540	1+
111002	0050	2	111012	1951	2	111021	0857	1
111002	0632	2	111013	0310	1-	111021	1301	2+
111002	1513	2	111013	0947	3+	111021	1706	1+
111002	1726	2	111013	1223	2+	111022	1031	3
111002	2151	2	111013	1850	1	111022	1518	1+
111003	0041	1	111014	0626	1+	111022	1919	1+
111004	0920	2+	111015	1240	2+	111023	0532	1
111004	0948	2+	111015	1328	2+	111023	1103	2+
111005	0744	1+	111015	1412	2+	111023	1147	2
111005	1055	1+	111015	1622	2+	111027	1845	1+
111005	1122	2+	111015	1818	3	111028	1208	3
111005	1244	2+	111015	2049	1+	111029	0921	2
111005	1728	3+	111016	0700	2+	111029	1451	2
111006	0415	1-	111016	0942	2+	111030	0937	2+
111006	0944	3+	111016	1218	2+	111030	1040	3+
111006	2236	1-	111016	1435	2+	111030	1448	1+
111007	0400	1	111016	1512	1+	111030	1711	1-
111009	1328	1+	111016	1557	1+	111030	1730	2+
111010	0720	2	111016	1733	2	111030	2117	1+
111010	1140	3	111017	1143	1	111031	1348	2+
111010	1435	2+	111017	1810	1+	111031	1502	2
111011	1942	1-	111019	0454	1+	111031	1741	2
111012	0618	2	111019	1309	2+	111031	1807	2+
111012	0952	2	111019	1335	2+	111031	1838	2
111012	0952	2	111019	1634	2			

Solar Events

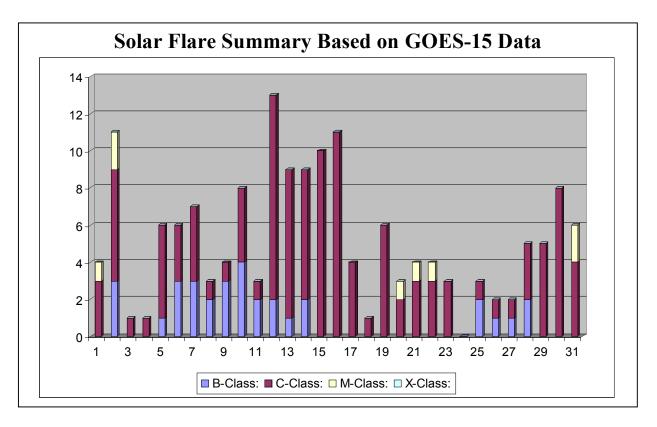


9 1: 19-25 1+: 26-32 2: 33-45 2+: 46-85 3: 80		Importance rating: Duration (min)
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Sudden Ionospheric Disturbances (SID) Observers During October, 2011

Observer	Code	Station(s) monitored	Observer	Code	Station(s) monitored
L Anderson	A91	NWC	B Terrill	A120	NWC
A McWilliams	A94	NML	R Howe	A121	NML
R Battaiola	A96	ICV	F Adamson	A122	NWC
J Wallace	A97	NAA	G Myers	A124	NLK
F Steyn	A102	NAA NWC	S Oatney	A125	NML
A Son	A112	DHO	G Richardson	A128	NML NPM NWC
L Loudet	A118	GQD NAA	K Cotar	A129	FTA NAA
J Godet	A119	GBZ GQD ICV			

There were 162 solar flares measured by GOES-15 for October, 2011. Eight M class flares, 121 C class and 33 B class flares. There were 15 AAVSO SID Observers who submitted reports on a month with many C class and M class flares. The sun was much more quiet than last month.



American Relative Sunspot Numbers (Ra) for October, 2011 [boldface = maximum, minimum]

DAY	NumObs	RAW	Ra
1	34	108	75
2	35	108	75
3	32	97	68
4	32	111	78
5	28	90	64
6	37	85	62
7	29	75	52
8	32	65	46
9	33	78	56
10	30	92	62
11	23	112	79
12	26	128	88
13	27	141	99
14	27	146	99
15	38	129	96
16	38	140	98
17	35	150	104
18	29	128	94
19	25	131	94
20	30	166	118
21	31	171	118
22	38	147	107
23	41	122	84
24	27	118	84
25	29	98	71
26	21	97	66
27	24	87	61
28	27	96	66
29	27	84	57
30	28	92	70
31	22	82	56
Averages	30.2	112	78.9

Total Observers: 60
Total Observations: 935

Observer	#Obs	Name
AAX	19	Alexandre Arorim
AJV	20	J. Alonso
ARAG	35	Gema Araujo
ASA	29	Salvador Aguirre
BARH	7	Howard Barnes
BATR	1	Roberto Battaiola
BEB	20	Ray Berg
BERJ	9	Jose Alberto Berdejo
BMF	16	Michael Boschat
BRAB	29	Brenda Branchett
BRAF	12	Raffaello Braga

BROB	30	Robert Brown
BXD	9	Alexandru Burda
CHAG	25	German Morales Chavas
СКВ	28	Brian Cudnik
CLZ	7	Corp Laurent
CNT	8	Dean Chantiles
CVJ	11	Jose Carvajal
DELS	7	Susan Delaney
DGP	18	Gerald Dyck
DUBF	25	Franky Dubois
FAM	11	Fabio Mariuzza
FERJ	18	Javier Ruiz Fernandez
FLET	26	Tom Fleming
FLF	17	Fredirico Luiz Funari
FUJK	22	K. Fujimori
HALB	7	Brian Halls
HAYK	11	Kim Hay
HMQ	5	Mark Harris
HOWR	26	Rodney Howe
HRUT	13	Timothy Hrutkay
JASK	13	Krystyna Wirkus
JJK	10	Jerry Klotz
KAND	20	Kandilli Observatory
KAPJ	25	John Kaplan
KNJS	20	James & Shirley Knight
KROL	12	, ,
LEVM		Larry Krozel
	18	Monty Leventhal
LKR	12	Kristine Larsen
MARE	10	Enrico Mariani
MILJ	8	Jay Miller
MMI	26	Michael Moeller
MUDG	12	George Mudry
OATS	18	Susan Oatney
OBSO	16	IPS Observatory
RICE	9	E. C. Richardson
SCGL	23	Gerd-Lutz Schott
SIMC	8	Clyde Simpson
SONA	16	Andries Son
STQ	10	Nick Stoikidis
SUZM	23	Miyoshi Suzuki
TESD	25	David Teske
URBP	23	Piotr Urbanski
VARG	22	A.Gonzalo Vargas
VIDD	8	Vidican Dan
WILW	14	William M. Wilson
WIRP	2	Piotr Wirkus
WKM	2	Michael Wiskirken
WRP	2	Russell Wheeler

Reporting Addresses:

Sunspot Reports – Kim Hay Email: solar.aavso@gmail.com

SID Solar Flare Reports - Rodney Howe

Email: ahowe@frii.com

Alvaro Gonzalo Vargas Beltrán, **Observatorio Aficionado Cruz del Sur,** Cochabamba, Bolivia sends these visual drawings and sunspot data:

EVOLUCION DEL GRUPÒ SOLAR AR1339

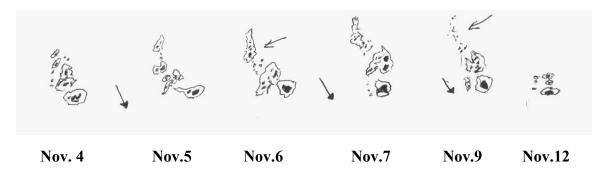


Figure 1 are visual observations and hand drawings for the large sunspot group AR1339, by Alvaro Gonzalo Vargas Beltrán.

And below is a comparison of Gonzalo's sunspot numbers with those from SIDC for October, 2011:

ACTIVIDAD SOLAR OCTUBRE 2011

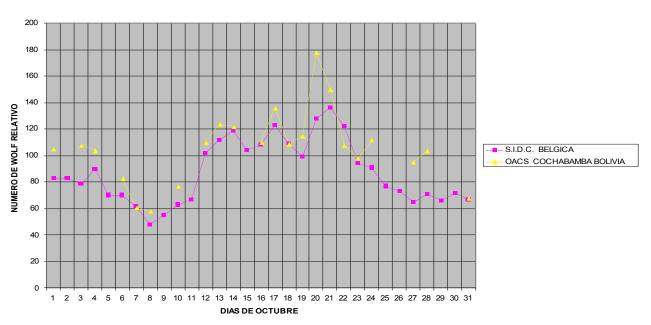


Figure 2 show solar activity data trace in yellow, and in pink color SIDC from Belgium (October, 2011).