

# Solar Bulletin

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS  
SOLAR COMMITTEE



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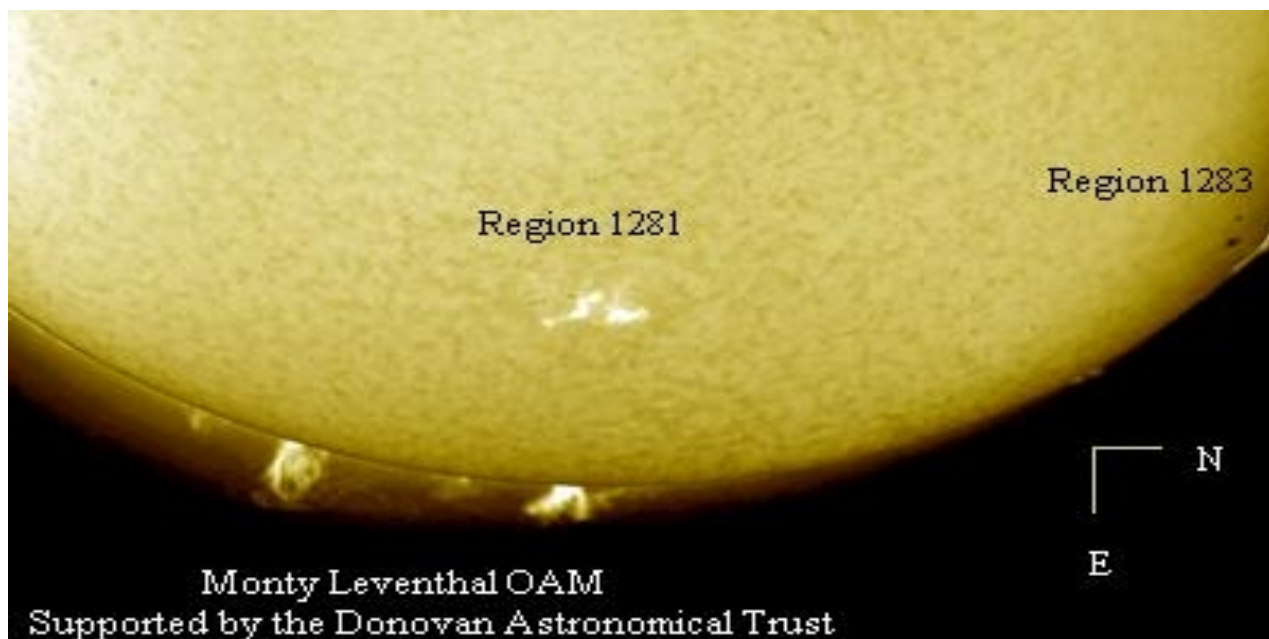
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August, 2011



Digital Filtergram. Date:30-8-11. Time: 22.10 UT. Telescope: Meade SC 10"  
Filter: H-alpha 6Å. Camera: Canon 300D. Conditions: Good (2).  
Flare type 2B, started at 22.25, peaked at 22.50 & ended at 23.05 hrs.  
X-ray class C5.5. Region: 1281

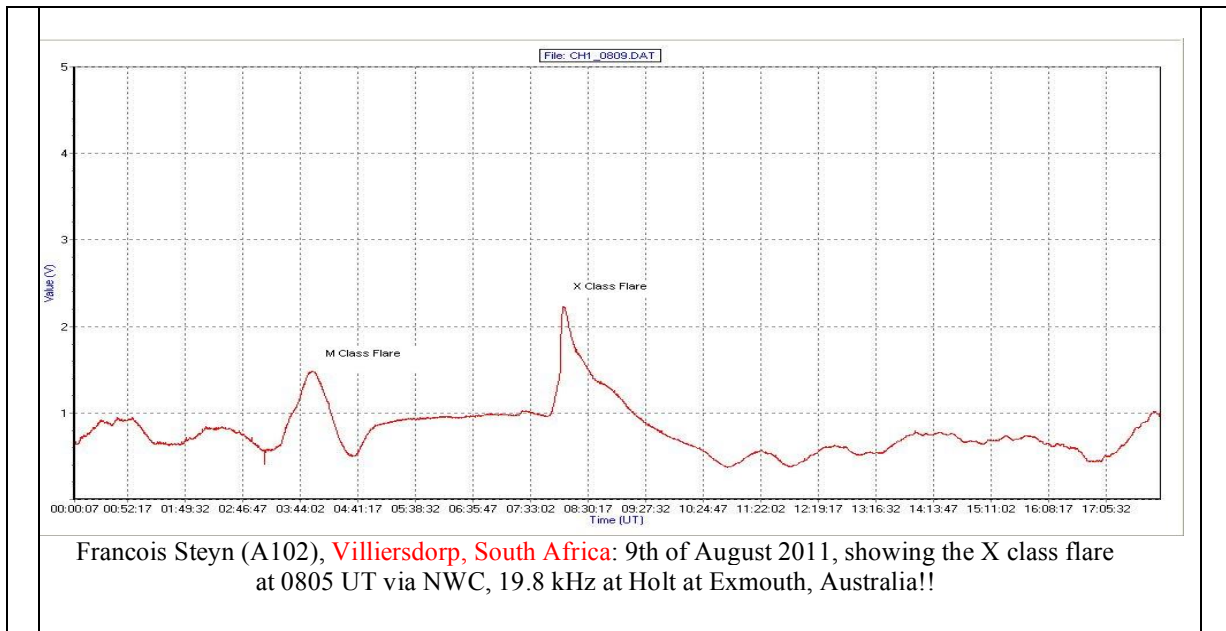
## Check out the AAVSO Solar Section List Serve

To facilitate discussion among solar observers, we've set up a new mailing list dedicated to Solar observing and Solar astronomy and astrophysics: aavso-solar. The list functions exactly like all of our other mailing lists and you can subscribe to it via our website:

<http://www.aavso.org/discussion-groups-email-lists>

<http://www.aavso.org/mailman/listinfo/aavso-solar>

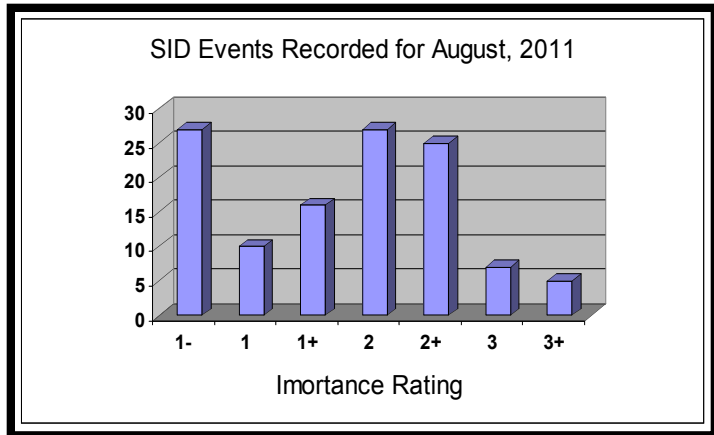
# Sudden Ionospheric Disturbance Report



## Sudden Ionospheric Disturbances (SID) Records During August, 2011

Date	Max	Imp	Date	Max	Imp	Date	Max	Imp
110801	0714	1-	110805	1246	2+	110811	1002	3+
110801	0733	2	110805	1500	2	110811	1020	1+
110801	0815	1	110805	1747	2	110815	1119	2+
110801	1240	2+	110805	2255	2	110815	1630	2
110801	1703	2+	110806	0015	3	110817	0019	1-
110801	2330	2	110806	0848	1+	110817	1040	2+
110802	0323	1-	110806	1146	2+	110817	1629	2
110802	0617	3+	110806	1223	2+	110818	0647	2
110802	1141	1	110807	0236	1+	110818	1516	2+
110802	1723	2+	110807	0613	1-	110820	0744	1
110803	0318	1	110807	0833	1+	110820	2054	2
110803	0335	1+	110807	0928	1	110821	2258	1
110803	0423	2+	110807	1406	2	110825	0704	1+
110803	0433	1+	110808	1637	2	110826	0357	1-
110803	0746	1-	110808	1810	1+	110826	1314	3
110803	0759	2+	110808	2213	2	110829	0719	2+
110803	1038	2+	110809	0353	2	110829	0829	1-
110803	1334	3	110809	0726	1	110829	1020	1-
110803	1902	3+	110809	0806	2+	110829	1041	1+
110803	1931	2+	110809	1343	2+	110829	1105	2+
110803	1936	2	110809	1554	2+	110829	1716	1-
110804	0241	2	110809	1813	2	110830	0314	1-
110804	0358	2	110809	2345	1+	110830	0508	1-
110804	0804	2+	110810	0938	2	110830	0642	1+
110804	0921	2	110810	1042	2	110830	0922	2
110804	1014	2+	110810	1410	2+	110830	1205	3
110804	1443	1+	110810	1523	2+	110830	1358	2
110804	2124	2	110810	1615	1	110830	1600	1-
110804	2316	1-	110811	0410	1-	110830	2246	1+
110805	0331	1-	110811	0748	2	110831	0346	1-
110805	0610	1	110811	0943	1	110831	1124	1+

# Solar Events

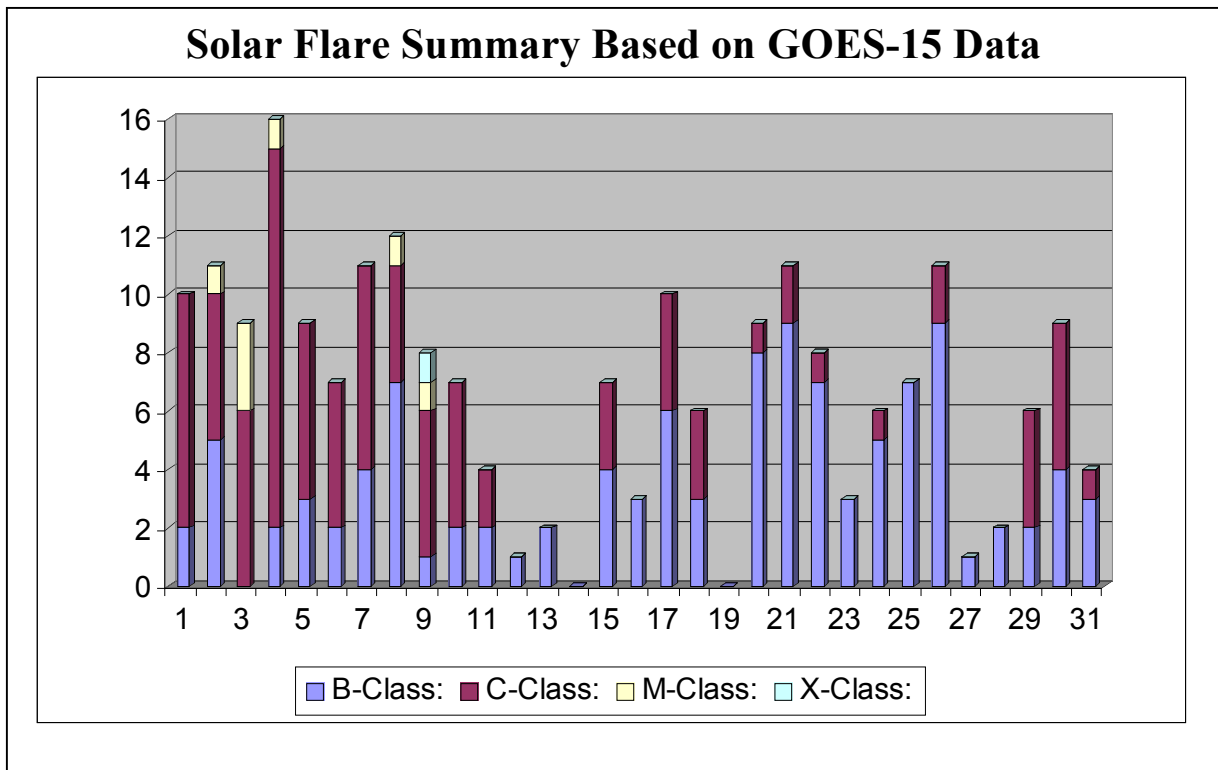


Importance rating: Duration (min)	1-: <19	1: 19-25	1+: 26-32	2: 33-45	2+: 46-85	3: 86-125	3+: >125
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## Sudden Ionospheric Disturbances (SID) Observers During August, 2011

Observer	Code	Station(s) monitored	Observer	Code	Station(s) monitored
P King	A80	HWU	J Godet	A119	GBZ GQD
L Anderson	A91	NWC	R Howe	A121	NML
A McWilliams	A94	NML	F Adamson	A122	NWC
R Battaiola	A96	DHO	G Myers	A124	NLK
J Wallace	A97	NAA	S Oatney	A125	NML
F Steyn	A102	NAA NWC	G Richardson	A128	NPM NWC
L Loudet	A118	GBZ GQD NAA	M King	A99	no data

There were 210 solar flares measured by GOES-15 for August, 2011, One X class flare, 7 M class flares, 92 C class and 109 B class flares. There were 14 AAVSO SID Observers who submitted reports on our most active month of this solar cycle 24!



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

DAY	NumObs	RAW	Ra
1	39	110	<b>77</b>
2	35	86	61
3	36	79	55
4	40	95	66
5	31	85	60
6	30	86	58
7	32	76	54
8	30	65	44
9	32	52	36
10	34	29	22
11	38	26	18
12	41	20	14
13	31	6	4
14	31	1	<b>0</b>
15	37	12	9
16	43	38	26
17	44	51	35
18	39	50	35
19	36	51	33
20	40	53	38
21	37	71	51
22	35	85	60
23	37	84	60
24	32	62	43
25	33	59	41
26	37	77	57
27	36	64	45
28	34	59	41
29	38	47	34
30	37	81	60
31	32	114	77
<b>Averages</b>	<b>35.7</b>	<b>60.4</b>	<b>42.4</b>

**Total Observers: 57**  
**Total Observations: 1107**

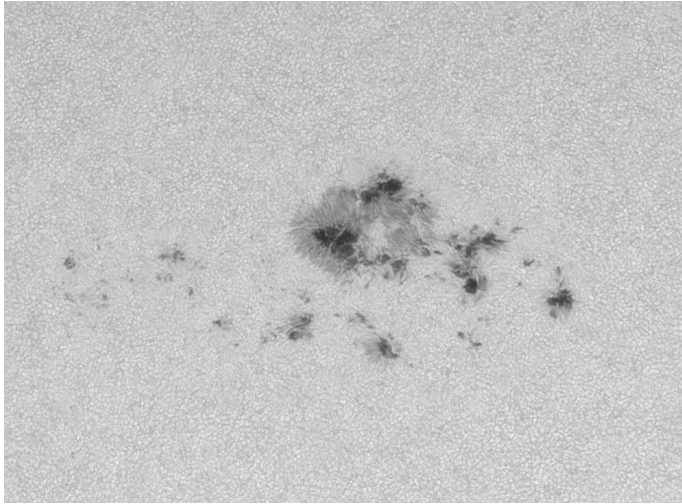
Observer	#Obs	Name
AAP	10	A. Patrick Abbott
AAX	11	Alexandre Arorim
AJV	20	J. Alonso
ARAG	30	Gema Araujo
ASA	10	Salvador Aguirre
BARH	11	Howard Barnes
BATR	8	Roberto Battaiola
BEB	8	Ray Berg
BERJ	4	Jose Alberto Berdejo
BMF	20	Michael Boschat
BRAB	31	Brenda Branchett
BRAF	26	Raffaello Braga

BROB	22	Robert Brown
BXD	25	Alexandru Burda German Chavas
CHAG	29	Morales
CKB	30	Brian Cudnik
CNT	9	Dean Chantiles
CVJ	21	Jose Carvajal
DELS	2	Susan Delaney
DEMF	6	Frank Dempsey
DGP	20	Gerald Dyck
DUBF	28	Franky Dubois
FAM	17	Fabio Mariuzza
FERJ	19	Javier Ruiz Fernandez
FLET	26	Tom Fleming
FLF	20	Fredirico Luiz Funari
FUJK	22	K. Fujimori
HAYK	19	Kim Hay
HMQ	7	Mark Harris
HOWR	28	Rodney Howe
HRUT	28	Timothy Hrutkay
JASK	21	Krystyna Wirkus
JJK	4	Jerry Klotz
KAND	31	Kandilli Observatory
KAPJ	29	John Kaplan James & Shirley
KNJS	23	Knight
KROL	23	Larry Krozel
LEVM	20	Monty Leventhal
LKR	12	Kristine Larsen
MARE	15	Enrico Mariani
MILJ	13	Jay Miller
MMI	27	Michael Moeller
MUDG	18	George Mudry
OATS	31	Susan Oatney
OBSO	22	IPS Observatory
OJMA	18	Juha Ojanpera
RICE	14	E. C. Richardson
SIMC	11	Clyde Simpson
SONA	18	Andries Son
STQ	26	Nick Stoikidis
SUZM	27	Miyoshi Suzuki
TESD	29	David Teske
TJV	9	Javier Temprano
URBP	26	Piotr Urbanski
VARG	24	A.Gonzalo Vargas
WILW	29	William M. Wilson
WIRP	1	Piotr Wirkus

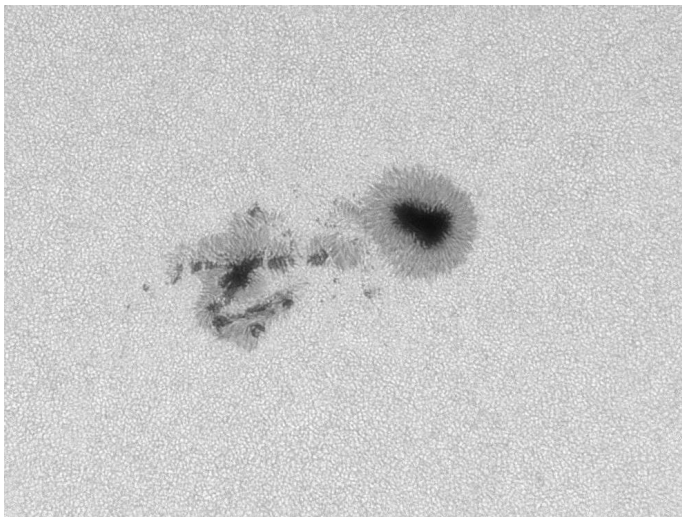
**Reporting Addresses:**  
**Sunspot Reports – Kim Hay**  
 Email: [solar.aavso@gmail.com](mailto:solar.aavso@gmail.com)  
**SID Solar Flare Reports – Rodney Howe**  
 Email: [ahowe@frii.com](mailto:ahowe@frii.com)

These images are from Javier Ruiz,  
Santander. Spain.

Filter: Baader Astrosolar  
Instrument: Skywatcher Equinox 120/900 + Barlow 3x  
Camera: DMK31



Active Region 1261, Date: 1-8-11 12h 16m



Active Region 1263, Date: 3-8-11 12h 04m