

Solar Bulletin

THE AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS
SOLAR COMMITTEE

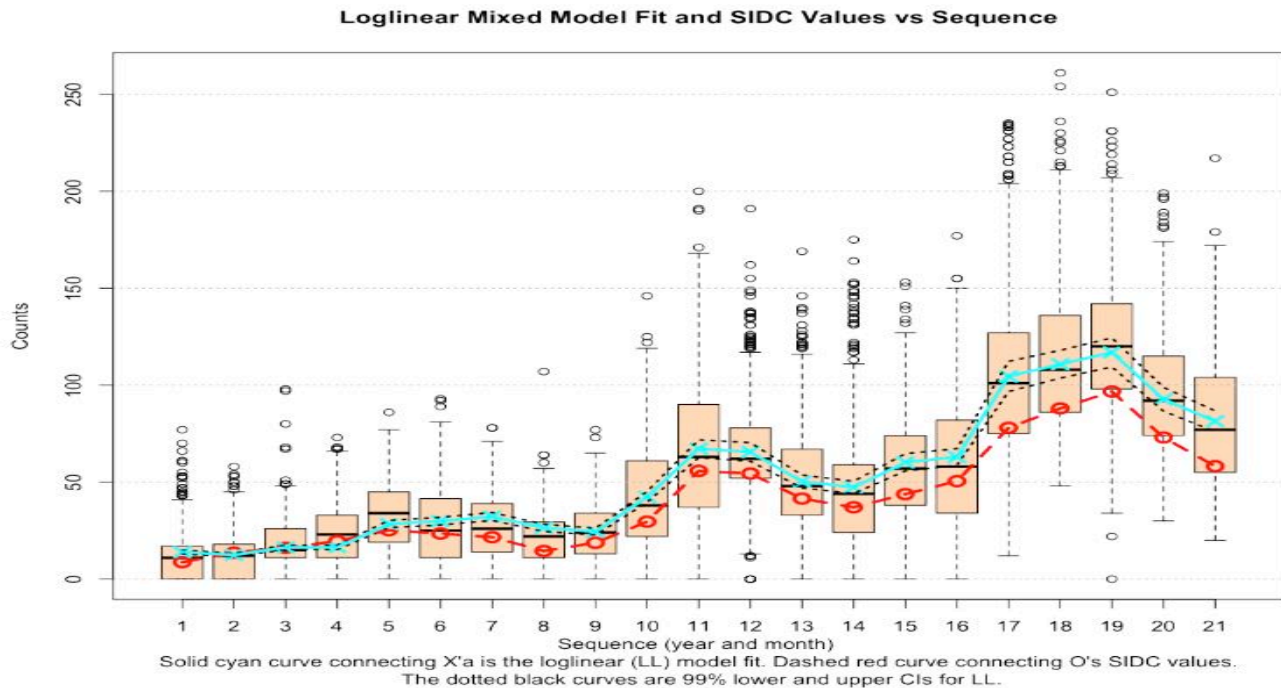


Rodney Howe, Editor, Chairperson
c/o AAVSO, 49 Bay State Rd
Cambridge, MA 02138

Web: <http://www.aavso.org/solar-bulletin>
Email: solar.aavso@gmail.com
ISSN 0271-8480

Volume 68 Number 2

February, 2012

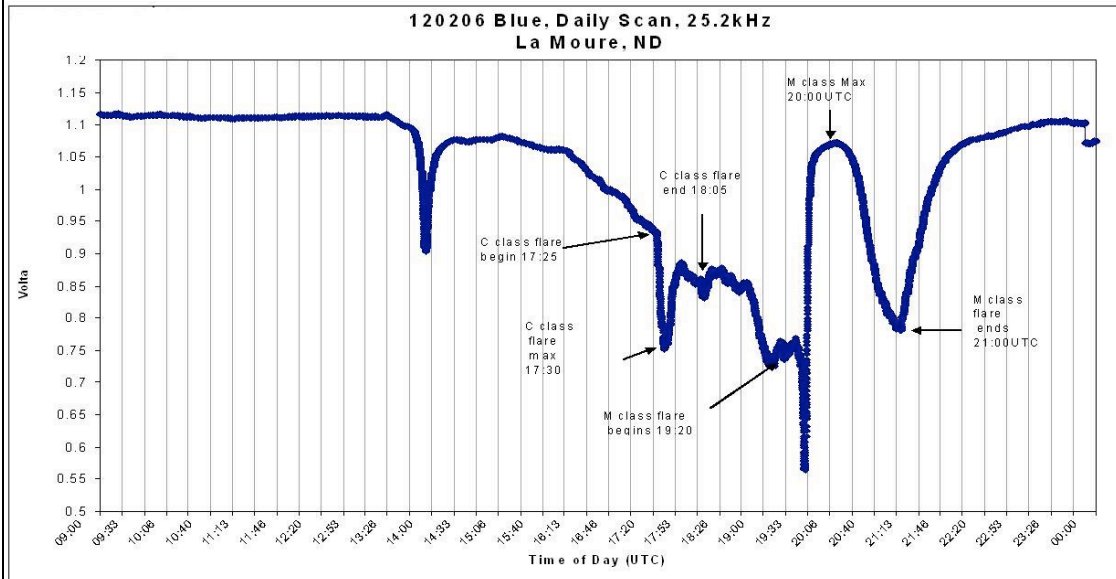


This graph was made by *Jamie Riggs*: It represents the previous 21 months of the AAVSO's total raw observer data. Using a Generalized Loglinear Mixed Model (GLMM) to fit the AAVSO observer's sunspot data (Wolf number) to the Solar Influences Data Center (SIDC) monthly data. It demonstrates how closely the raw AAVSO data match the SIDC international monthly index.

We are testing the new SunEntry program

SunEntry is a data entry program for Solar Observers. It will help you to create reports and send them to our database where they will be used in the AAVSO American Relative Sunspot Program. The information you submit will also be used in the monthly Solar Bulletin. Since **SunEntry** is a Java Web Start based program it should work on any operating system and updates will occur automatically each time you use it. <http://www.aavso.org/sun-entry>

Sudden Ionospheric Disturbance Report

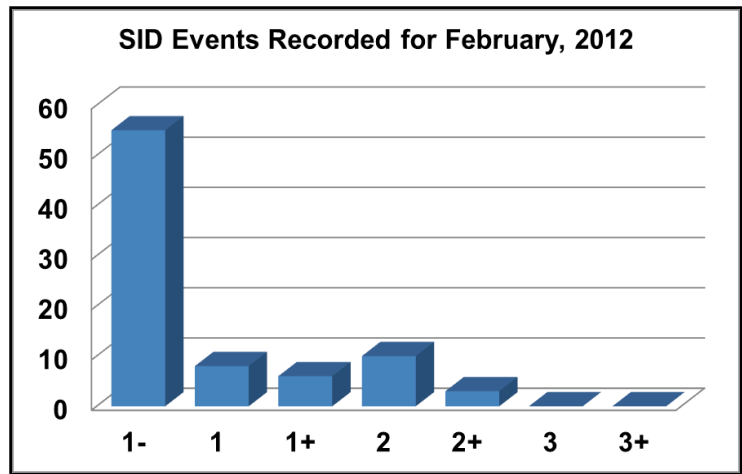


This graph shows C and M class flares on the 6th of February, 2012

Sudden Ionospheric Disturbances (SID) Records During February, 2012

Date	Max	Imp	Date	Max	Imp	Date	Max	Imp
120201	1202	1+	120209	0935	1+	120220	1129	1
120205	1310	1-	120210	1209	1-	120220	2213	1-
120205	1314	1-	120211	0855	1-	120221	1148	2
120205	1322	1-	120211	1003	2	120221	2159	1-
120205	1323	1-	120211	1045	1-	120222	1409	1-
120205	1415	1-	120211	1605	1	120222	1440	1-
120205	1519	1-	120211	1856	1	120222	2017	1-
120205	1623	1-	120211	2044	1+	120223	1417	1-
120205	1715	1-	120212	0447	1+	120223	2226	1-
120205	2149	1-	120212	0701	2	120224	1826	1-
120205	2226	1-	120212	0741	1	120226	1423	1-
120205	2227	1-	120212	1443	1	120226	1751	1-
120206	0727	1-	120215	1358	1	120226	1938	1-
120206	2000	2	120215	2225	1-	120226	2205	1-
120206	2027	2+	120216	2246	1-	120228	0805	1-
120207	0227	2+	120216	2249	1-	120229	0736	1
120207	0244	1-	120219	0850	1	120229	2230	1-
120207	1104	2	120219	1735	1-			
120207	1734	2	120219	1854	1-			
120208	2240	2+	120219	2011	1-			

Solar Events

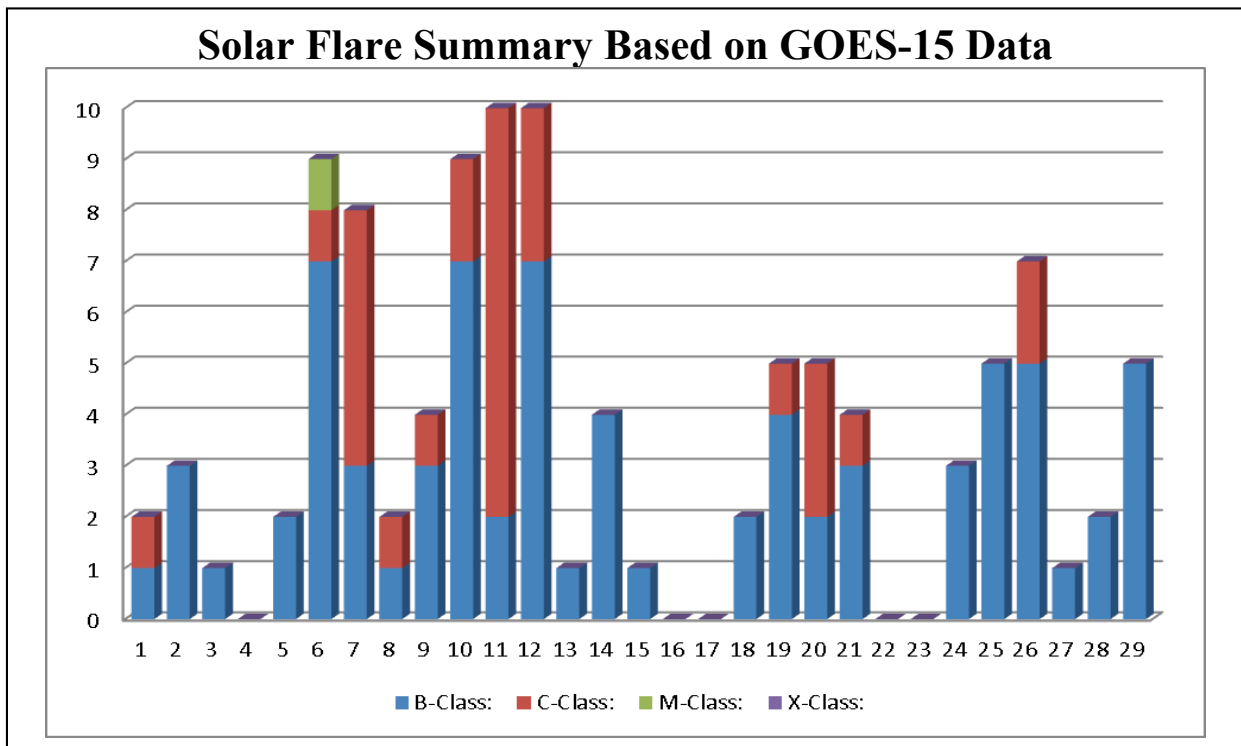


Importance rating: Duration (min)	1-: <19	1: 19-25	1+: 26-32	2: 33-45	2+: 46-85	3: 86-125	3+: >125
-----------------------------------	---------	----------	-----------	----------	-----------	-----------	----------

Sudden Ionospheric Disturbances (SID) Observers During February, 2012

Observer	Code	Station(s) monitored	Observer	Code	Station(s) monitored
P King	A80	HWU	B Terrill	A120	NWC
A McWilliams	A94	NML	R Howe	A121	NLM
R Battaiola	A96	HWU	F Adamson	A122	NWC
J Wallace	A97	NAA	G Myers	A124	NLK
F Steyn	A102	NAA NWC	S Oatney	A125	NML
M Suhovecky	A115	NAA	K Cotar	A129	DHO FTA
L Loudet	A118	DHO	S Zinn	A130	NAA NML NPM
J Godet	A119	GBZ GQD ICV	J Karlovsky	A131	DHO ICV

There were 105 solar flares measured by GOES-15 for February, 2012. There was one M class, 29 C class and 75 B class flares. The sun was not as active with C and M class flares as January, 2012. There were 16 AAVSO SID Observers who submitted reports this month.



American Relative Sunspot Numbers (Ra) for February, 2012 [**boldface = maximum, minimum**]

DAY	NumObs	RAW	Ra
1	29	74	55
2	21	56	38
3	24	32	22
4	25	36	27
5	27	29	20
6	28	35	25
7	22	21	14
8	24	25	14
9	28	28	19
10	29	42	27
11	33	39	26
12	23	54	35
13	22	61	43
14	22	53	38
15	22	46	33
16	19	41	29
17	27	41	28
18	28	49	33
19	34	55	39
20	34	52	34
21	28	50	34
22	29	38	27
23	28	47	32
24	25	51	31
25	32	41	28
26	31	44	29
27	28	43	31
28	21	34	22
29	20	23	15
Average	26.3	42.7	29.3

Observer	#Obs	Name
AAP	9	A. Patrick Abbott
AAX	21	Alexandre Arorim
AJV	23	J. Alonso
ARAG	29	Gema Araujo
ASA	19	Salvador Aguirre
BARH	12	Howard Barnes
BATR	2	Roberto Battaola
BEB	5	Ray Berg
BERJ	14	Jose Alberto Berdejo
BMF	13	Michael Boschat

BRAB	27	Brenda Branchett
BRAF	16	Raffaello Braga
BROB	25	Robert Brown
BXD	2	Alexandru Burda
CHAG	22	German Morales Chavas
CKB	14	Brian Cudnik
CNT	7	Dean Chantiles
CVJ	5	Jose Carvajal
DANB	2	Anderson Dantas
DELS	4	Susan Delaney
DEMF	2	Frank Dempsey
DGP	23	Gerald Dyck
DJOB	10	Jorge del Rosario
DUBF	22	Franky Dubois
FAM	5	Fabio Mariuzza
FERJ	9	Javier Ruiz Fernandez
FLET	20	Tom Fleming
FLF	19	Fredirico Luiz Funari
FUJK	18	K. Fujimori
HAYK	13	Kim Hay
HMQ	5	Mark Harris
HOWR	22	Rodney Howe
HRUT	11	Timothy Hrutkay
JASK	10	Krystyna Wirkus
JGE	14	Gerado Jinenez Lopez
JJK	2	Jerry Klotz
KAND	15	Kandilli Observatory
KROL	25	Larry Krozel
LEVM	17	Monty Leventhal
LKR	11	Kristine Larsen
MARE	5	Enrico Mariani
MRO	21	E.Mochizuik
MMI	17	Michael Moeller
MUDG	3	George Mudry
OATS	12	Susan Oatney
OBSO	16	IPS Observatory
RICE	14	E. C. Richardson
SCGL	10	Gerd-Lutz Schott
SIMC	12	Clyde Simpson
SONA	9	Andries Son
SUZM	23	Miyoshi Suzuki
TESD	16	David Teske
URBP	17	Piotr Urbanski
VARG	15	A.Gonzalo Vargas

VIDD	12	Vidican Dan
WILW	14	William M. Wilson
WRP	3	Russell Wheeler

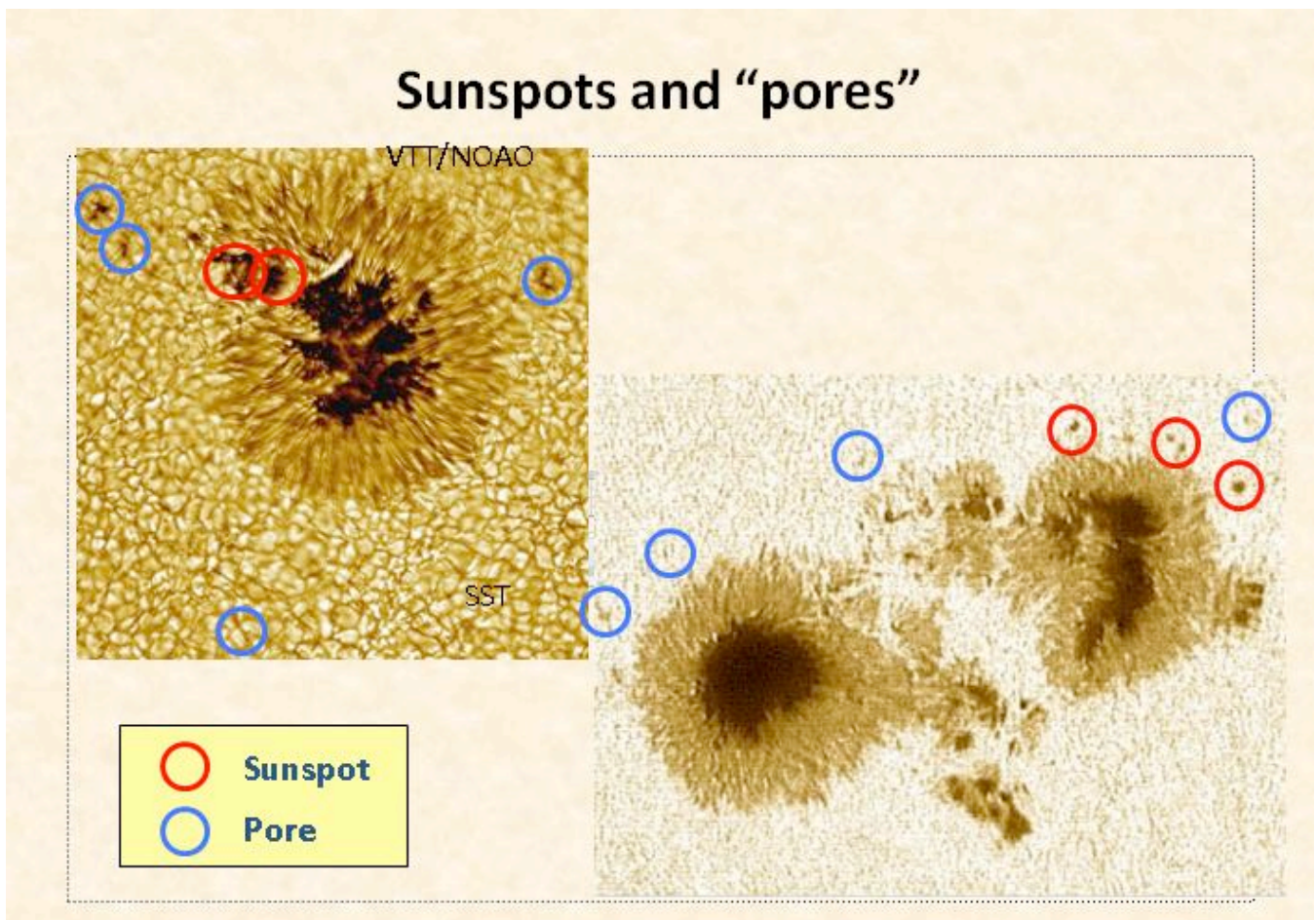
Total Observers: 57
Total Observations: 763

Sunspot Reports – Kim Hay

solar.aavso@gmail.com

SID Solar Flare Reports – Rodney Howe

ahowe@frii.com



Slide courtesy of Frederic Clette,
SIDC, 2011