The wonderful H-alpha image at left was taken by Javier Ruiz from Observatorio Astronomico de Cantabria, Spain on Feb 13, 2009 at 14:35UT. He used a Coronado SM90 on a TSA102 with a DMK41 camera. The exciting image of solar prominences at right was taken on Jan 6, 2009 by Dr. Douglas Allen of Dordt College in Sioux Center, Iowa. He used a Coronado PST and SBIG STV camera. Shows that during times of minimal solar activity there is still some to capture by our dedicated imagers.

Thanks again to all the dedicated observers who continue to patrol the sun and submit reports. Your data still counts and reflects the current status of this cycle. Don’t forget to submit your images, drawings and SID plots to include in the bulletin.

**Still looking for web software volunteers**

We’re looking to update our sunspot data submission process, and provide more real-time feedback to all our solar observers via the AAVSO website. We’d also like to help improve our visibility to the astronomy community for IYA 2009. If you have the experience and expertise and have some time to help the solar group, please contact me via email above.
Sudden Ionospheric Disturbances (SID) Recorded During February 2009

(Analysis performed by Michael Hill, SID Analyst)

<table>
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<th>Date</th>
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No

SIDs

Events

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

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)
February was a very slow month again. There were 0 correlated SID events and the GOES-12 satellite only detected 3 B-Class flares between the 10th and the 13th of the month. Just about the same time as last month which is interesting. I wonder if it’s the same underlying region of activity that keeps popping up spots? That’s something to think about while we wish for more activity to grace our data charts. I would like to welcome new observer Gary Myers. Gary lives in Washington State and is monitoring NML. His observer ID is A124. Welcome to the group Gary. As always thanks to all of you for your continued contributions.
American Relative Sunspot Numbers (Ra) for February 2009 [boldface = maximum, minimum]

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Means 29.1 1.1 0.7

No. of Observers: 56
Total No. of Observations: 814

Reporting Addresses:
Sunspot Reports – Email: solar@avaso.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  16
AJV  J. Alonso  23
ANGR R. Ang  13
ARAG G. Araujo  28

BARH H. Barnes  11
BEB R. Berg  12
BEDJ J. Bedient  9
BMF M. Bosch  13
BRAB B. Branchett  25
BROB R. Brown  19
BVC A. Buck  28
CHAG G. Morales  20
CKB B. Cudnik  24
CLZ L. Corp  11
CNT D. Chantiles  8
CVJ J. Carvajal  16
DEKP P. Dekelver  2
DGP G. Dyck  3
DUBF F. Dubois  19
FERJ J. Fernandez  16
FLET T. Fleming  21
FUJ K. Fujimori  18
HAYK K. Hay  17
HMQ M. Harris  10
HRUT T. Hrutkay  7
JASK K. Jaskulska  8
KAPJ J. Kaplan  15
KNJS J. & S. Knight  23
KROL L. Krozel  3
LARJ J. Larriba  14
MARF F. Mariuzza  20
MARJ J. Maranon  26
MCE E. Mochizuki  20
MEU E. Mason  2
MILJ J. Miller  12
MMI M. Moeller  13
OATS S. Oatney  19
OBSO IPS Observatory  19
RICE E. Richardson  14
RITA A. Ritchie  8
SCGL G. Schott  13
SIMC C. Simpson  8
STEF G. Stefanopoulis  3
STEM G. Stemmler  12
STQ N. Stoikidis  18
SUZM M. Suzuki  24
SZUM M. Szulc  14
TESD D. Teske  21
TJV J. Temprano  12
URBP P. Urbanski  11
VARG A. Vargas  17
VIDD D. Vidican  12
WILW W. Wilson  22
WIRP P. Wirkus  1
WRP R. Wheeler  5
YESH H. Yesilyaparak  16
10 cm Solar Flux and American Relative Sunspot Numbers (Ra) for February 2009

source: ftp://lynx.drao.nrc.ca/pub/solar/FLUX_DATA/fluxtablerolling.text

Smoothed Mean Sunspot Numbers (Rsm) from January 2000 to August 2008
(Waldmeier Method)