

December 2, 2009

Space Weather Prediction Center  
SOLAR AND GEOPHYSICAL ACTIVITY SUMMARY (SGAS)

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GOES 14 Primary Satellite for XRS data

December 1, 2009: SGAS shows GOES 14 X-ray Background.  
GOES 11 continues for Proton and Electron Fluence.

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The daily Solar and Geophysical Activity Summary is a brief list of solar and geophysical events and indices for the previous UTC day, including energetic solar flares, proton events, geomagnetic activity, and stratospheric warming alerts. See sample and description below.

The last 75 Reports are available in this directory.  
Issue time: Daily at 0245 UTC, usually online at 0250 UTC.  
Period covered: Previous UTC day.

Available:  
via SWPC Anonymous FTP server ftp.swpc.noaa.gov  
/pub/latest/SGAS.txt --- most recent report  
/pub/forecasts/SGAS --- last 75 reports

via SWPC Web site:  
http://swpc.noaa.gov/ftplib/latest/SGAS.txt  
http://swpc.noaa.gov/ftplib/forecasts/SGAS.html

Older reports, beginning in 1996, are on-line in the SWPC Warehouse.  
Via Anonymous FTP: ftp.swpc.noaa.gov cd to /pub/warehouse/  
Via the Web: http://www.swpc.noaa.gov/ftplib/warehouse.html

This, and other forecasts and summary reports, are available via email.  
https://pss.swpc.noaa.gov/

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\*\* Please read the SWPC Disclaimer at http://www.swpc.noaa.gov/  
\*\* before using the forecasts and data in these reports.  
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SWPC provides near-real-time and recent data, solar and geomagnetic indices and solar event reports created from preliminary reports. Preliminary data may contain errors or be revised after further review. The historical products in this SWPC Warehouse are the preliminary reports as originally published. SWPC does not encourage the use of preliminary data for research purposes.

Links to archive sites with final data: http://www.swpc.noaa.gov/Data/  
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Please send comments and questions to SWPC.Webmaster@noaa.gov  
Report problems to SWPC.CustomerSupport@noaa.gov

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Sample:

:Product: Solar and Geophysical Activity Summary  
:Issued: 2008 Jan 03 0247 UTC  
# Prepared jointly by the U.S. Dept. of Commerce, NOAA,  
# Space Weather Prediction Center and the U.S. Air Force.  
#  
Joint USAF/NOAA Solar and Geophysical Activity Summary  
SGAS Number 003 Issued at 0245Z on 03 Jan 2008  
This report is compiled from data received at SWO on 02 Jan  
A. Energetic Events  
Begin Max End Rgn Loc Xray Op 245MHz 10cm Sweep  
None  
B. Proton Events: None  
C. Geomagnetic Activity Summary: The geomagnetic field was quiet.  
D. Stratwrm: Not Available  
E. Daily Indices: (real-time preliminary/estimated values)  
10 cm 080 SSN 013 Afr/Ap 001/001 X-ray Background A2.7  
Daily Proton Fluence (flux accumulation over 24 hrs)  
GT 1 MeV 2.8e+06 GT 10 MeV 1.9e+04 p/(cm2-ster-day)  
(GOES-11 satellite synchronous orbit W135 degrees)  
Daily Electron Fluence  
GT 2 MeV 4.20e+07 e/(cm2-ster-day)  
(GOES-12 satellite synchronous orbit W75 degrees)  
3 Hour K-indices:  
Boulder 0 0 0 0 1 1 1 0 Planetary 0 0 0 0 0 0 0  
F. Comments: None

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Description:

Part A.  
A profile of significant solar events including start, maximum, and end times, region number and location, x-ray and optical classification of flares, significant radio emission at 245 MHz, 10 cm (2695 MHz), and sweep frequencies, and significant short wave fades. All available data for an event are included in this section if one or more of the following thresholds are reached:

- Class-M or greater x-ray flare,
- Optical flare of importance > 2B,
- Radio burst of > 100 sfu at 245 MHz,
- Radio burst > 100% above background at 2695 MHz,

Type II or IV sweep frequency burst,  
Shortwave fade of importance 2 or greater.

- Part B. Proton event data given whenever the flux of >10 MeV protons reaches or exceeds 10 particle flux units (pfu). Data include start, maximum, and end times for events at >10, 50, and 100 MeV.
- Part C. A summary of the geomagnetic field during the previous UTC day.
- Part D. Stratospheric warming alerts -- not available to SWPC after Dec 1, 2004.
- Part E. Indices about the previous UTC day:
- Observed 2000 UTC Penticton 10.7 cm flux,
  - SEC sunspot number (SSN),
  - Estimated geomagnetic AFr-index,
  - Estimated planetary AP-index,
  - Daily x-ray background flux expressed in B, C, M, X scale (W m-2),
  - Daily proton fluence (flux accumulation over 24 hours) for >1 MeV and >10 MeV protons at geosynchronous altitudes,
  - 3-hourly KB-indices (Boulder) and estimated KP-indices (Planetary).
- Part F. Reserved for additional comments as required.

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OLD NOTICES

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GOES 10 Decommissioning Dec 1, 2009  
GOES 14 Becomes Primary Satellite for XRS data

November 17, 2009: On Tuesday, 01 December, the GOES 10 satellite will be officially decommissioned. At that time, GOES 14 will replace GOES 10 as the Primary SWPC GOES X-ray Satellite.

The Solar And Geophysical Activity Summary show GOES 14 X-ray Background. Proton and Electron Fluence will continue to be from GOES 11.

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November 24, 2004 Stratwarm alert service provided by SEC ends Dec 1 2004. SEC was informed that the Free University of Berlin (FUB) will no longer issue stratwarm alerts which were included in SGAS reports. The daily development of the stratospheric circulation can still be found on the FUB web site (<http://strat-www.met.fu-berlin.de/>). The general evaluation is, however, left to the user.

May 15, 2003 GOES-8 became the primary satellite for protons. GOES 12 is the primary satellite for magnetometer, X-ray, and electron measurements. GOES 10 is the secondary satellite for all SEM sensors - magnetometer, X-ray sensor, and energetic particle sensor. This short-term solution (approximately 2 - 3 months) will be in place until we define and implement a permanent fix.

See details at <http://sec.noaa.gov/GOES.html>  
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