

Subject line: Operational GOES-West Transition Plan (GOES-11 to GOES-15) Issued: October 7, 2011, 1735 UTC

Topic: Operational GOES-West Transition Plan (GOES-11 to GOES-15)

Date/Time Issued: October 7, 2011, 1735 UTC

Product(s) or Data Impacted: GOES-11 and GOES-15 Imager and Sounder data and associated products, including AWIPS, ancillary communication services (DCS/LRIT/EMWIN/SAR), and GVAR data

Date/Time of Initial Impact: December 6, 2011.

Date/Time of Expected End: N/A

Length of Outage: N/A

Details/Specifics of Change: On December 6, 2011 GOES-15 is scheduled to replace GOES-11 as the GOES-West operational spacecraft and GOES-15 GVAR will begin to flow through GOES-11 communication links. On December 14, 2011 GOES-15 GVAR will flow directly through GOES-15 communication links and GOES-11 will be decommissioned. A more detailed transition timeline is provided below. Characteristics of the Imager and Sounder are similar from GOES-11 to GOES-15; however, there are some differences:

- Increased spatial resolution to 4 km for all IR bands
- New 13.3 um band
- No 12 um on the imager
- GVAR format is going from GVAR format 1 to GVAR format 3 to support 4 km band 6
- Ground equipment may require adjustments to satellite ID, but the transition timeline and plans are intended to minimize disruptions to users who acquire the GOES-15 GVAR signal via a ground antenna.

Transition Timeline:

- August 22, 2011. GOES-15 began executing GOES-West frames (no Rapid (RSO), Super Rapid (SRSO) and the Full Disk (FD) frames) to accommodate advanced user testing of GOES-15 data.
- September 1, 2011 through October 15, 2011 is the GOES-15 Fall eclipse season for 2011.
- October 18, 2011 at 0321 UTC. GOES-15 will begin a westward drift from 89.5 degrees West to 135 degrees West at a rate ~ 0.78 degrees/day.
- December 1, 2011. A GOES-15 drift rate adjustment maneuver will be performed.
- December 6, 2011. As GOES-15 approaches 129 degrees West, the GOES-15 transition to GOES-West will occur. GOES-15 data will flow through GOES-11 communication links, thus, GOES-15 data becomes operational but is received through the GOES-11 downlink. In other words, the GOES-15 GVAR data are relayed through GOES-11. Users pointing to GOES-11 will start receiving GOES-15 data. Ancillary communication services (DCS/LRIT/EMWIN/SAR) will remain on GOES-11. Users do not re-point antennae. At this point GOES-15 data are considered operational, but should significant problems occur, GOES-11 data can be reestablished quickly.
- December 14, 2011. A GOES-15 stop maneuver will be performed. The GOES-11 signal is turned off and GOES-15 data are acquired directly from GOES-15. GOES-15 GVAR data will be relayed through GOES-15. Ancillary communication services (DCS/LRIT/EMWIN/SAR) will switch from GOES-11 to GOES-15.
- December 15, 2011. Pending successful arrival of GOES-15 at 135 degrees West, GOES-11 will perform de-orbit maneuvers, and GOES-11 will be decommissioned.

- These intricate steps are necessary to provide a continuous flow of data, with minimal impact to users. There should be no need to readjust antenna unless there is a desire to acquire GOES-15 data prior to GOES-15 becoming operational.

Current GOES-15 Data: ESPC Authorized Users of GOES data should currently have access to GOES-15 data via the SATESPDIST servers under the GCR server. GOES-15 GVAR non-operational data are currently being stored at NOAA's Comprehensive Large Array-Data Stewardship System (CLASS).

Contacts for Further Information: SPSD User Services at SPSD.UserServices@noaa.gov

Additional Web Site Resources:

- GOES status: <http://www.oso.noaa.gov/goesstatus/>
- Additional GVAR information: http://www.osd.noaa.gov/GVAR_Downloads/gvar_downloads.html and <http://www.oso.noaa.gov/goes/goes-calibration/>
- GOES-West Routine Imager schedule: <http://www.ssd.noaa.gov/PS/SATS/GOES/WEST/s-routine.html>
- Comprehensive Large Array-Data Stewardship System (CLASS): <http://www.class.ncdc.noaa.gov/saa/products/welcome>

This message was sent to ESPC.Notification@noaa.gov. You have been sent this and other notifications because you have opted in to receive it. If for any reason, you wish to unsubscribe, please contact ESPC Help Desk at ESPCOperations@noaa.gov or (301) 817-3880. Please note: it may take up to two business days to process your unsubscribe request.