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Service Change Notice 17-61
National Weather Service Headquarters Silver Spring MD
350 PM EDT Wed May 31 2017

To: Subscribers:
 -NOAA Weather Wire Service
 -Emergency Managers Weather Information Network
 -NOAAPort
 Other NWS Partners, Users and Employees

From: Joseph Pica
 Director, NWS Office of Observations

Subject: Add Geostationary Operational Environmental Satellite - 16 (GOES-16) Level 2 Derived Products to the Satellite Broadcast Network (SBN or NOAAPort): Effective May 31, 2017

Effective on or after 1500 Coordinated Universal Time (UTC) Wednesday, May 31, 2017, GOES-16 Level 2 Derived Products will be added to the Satellite Broadcast Network (SBN; also known as NOAAPort). These products are based on the GOES-16 Advanced Baseline Imager (ABI). The SBN feed of these GOES-16 products will be in a pre-operational validation and testing phase through at least November 2017.

NOAA's GOES-16 satellite has not been declared operational and its data are preliminary and undergoing testing. Users receiving these data through any dissemination means assume all risk related to their use of GOES-16 data and NOAA disclaims any and all warranties, whether express or implied, including (without limitation) any implied warranties of merchantability or fitness for a particular purpose. These products are being added to enable the testing of networks and systems with actual GOES-16 data and so that users will be able to evaluate the products during this validation/test period.

It is not recommended that these preliminary products be used in operational forecast processes, especially during the initial months of this validation/test period. Any downstream postings of these data should clearly convey their preliminary, non-operational and in-testing nature. Furthermore, this data stream may be subject to temporary unannounced data outages and modifications during this validation and testing period. One or more follow-on notices will provide information on the progress and conclusion of the validation period.

Refer to prior Service Change Notice 17-24 which introduced GOES-R imagery to the SBN:

<https://www.weather.gov/media/notification/pdfs/scn17-24goes16.pdf>

That imagery will continue to flow as the new Level 2 derived products described herein are added to the network.

The new GOES-16 level 2 derived products, the first 11 characters of their World Meteorological Organization (WMO) headers and their geographical regions of coverage are as follows:

GOES-16 Product -----	WMO Header -----	Regions -----
Aerosol Detection (Smoke + Dust)	IXTA99 KNES	F, C, M
Aerosol Optical Depth	IXTB99 KNES	F, C
Cloud Top Phase	IXTD99 KNES	F, C, M
Cloud Top Height	IXTG99 KNES	F, C, M
Cloud Top Pressure	IXTX01 KNES	F, C
Cloud Top Temperature	IXTI99 KNES	F, M
Derived Stability Indices	IXTN99 KNES	F, C, M
Total Precipitable Water	IXTO99 KNES	F, C, M
Clear Sky Mask	IXTH99 KNES	F, C, M
Fire/Hot Spot Characterization	IXTJ99 KNES	F, C
Land Surface (Skin) Temperature	IXTK99 KNES	F, C, M

Notes on table above:

Region codes refer to GOES-16 ABI sectors, where F refers to Full Disk, C refers to CONUS and M refers to mesoscale.

Derived Stability Indices include Convective Available Potential Energy (CAPE), Lifted Index (LI), K Index (KI), Showalter Index and Total Totals Index (TT).

KNES signifies that NOAA/National Environmental Satellite Data and Information Service (NESDIS) is the creating data center.

For the foreseeable future, the SBN's Experimental channel (product identifier (PID) 106) will be used to disseminate these GOES-16 Level 2 derived products; however, NOAA anticipates the SBN suite of GOES-16 products described here will evolve. Several of these products are likely to be discontinued after an evaluation period. Other products eventually will be moved to other SBN channels and possibly modified. Additional GOES-16 products are planned for addition to the SBN during June 2017. Future service change notices will describe these changes in advance.

The file format for these products is netCDF4.

GOES-16 remains stationed over its 89.5 degrees west longitude station. From this location, it is undergoing checkout and validation. GOES-16 will be moved to the GOES-East position at 75 degrees west longitude, once it is declared operational in November 2017.

Additional information about the flow of GOES-16 products on the SBN has been posted at the following website and will be periodically updated:

http://www.nws.noaa.gov/noaaport/html/GOES_R.shtml

Critical weather or other factors could delay the activation of these products on the SBN.

For questions pertaining to this change or upcoming plans for the addition of GOES-16 products onto NOAAPort, please contact:

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Silver Spring, MD
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For questions regarding the scientific or technical content of the NOAAPort-disseminated GOES-16 products, please contact:

Environmental Satellite Processing Center (ESPC) Help Desk
Suitland, MD
Phone: 301-817-3880
Email: espcoperations@noaa.gov

National Service Change Notices are online at:

<https://www.weather.gov/notification/archive>

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