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Service Change Notice 25-13
National Weather Service Headquarters Silver Spring MD
1025 AM EST Fri Jan 31 2025

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From: William H. Burnett, PhD
 Acting Director, NWS Office of Observations

Subject: Upgrade to GOES-R Enterprise Rain Rate Algorithm on SBN on or about March 3, 2025

On or about March 3, 2025, the Geostationary Orbiting Environmental Satellite (GOES)-East and GOES-West Enterprise Rain Rate Algorithm will be available on the Satellite Broadcast Network (SBN).

This update to the National Environmental Satellite, Data, and Information Service (NESDIS)/Satellite Applications and Research (STAR) algorithm, created to supplement radar and gauge measures of rain rate, has significant internal improvements leading to enhanced performance and metadata.

Data will be produced every 10 minutes, with no change to data cadence or volume. Data files are expected to be about 1 MB each, per satellite, amounting to a total of about 0.2 GB per day. For NWS users, configurations to visualize these files in the Advanced Weather Information Processing System (AWIPS) will be included in TOWRpro version 25.

There is no foreseen significant impact to users or systems via this change apart from the improved algorithm performance. The World Meteorological Organization (WMO) Headers for Enterprise Rain Rate and Quantitative Precipitation Estimate (QPE) product, IXTF89 and IXTF99, and the data structure itself will remain the same. There will be slight modifications to the metadata and formatting. For NWS/AWIPS users, this modification will be handled by TOWRpro v25.

Further details on the Enterprise Rain Rate product may be found at <https://www.ospo.noaa.gov/products/atmosphere/err/> or in the Algorithm Theoretical Basis Document (ATBD) available at:

https://www.star.nesdis.noaa.gov/goesr/documents/ATBDs/Enterprise/ATBD_Enterprise_Rainfall_Rate_v3_2020-07-10.pdf

Critical weather or other factors may affect the timing of this change.

For questions pertaining to this change, please contact:

NOAA/NWS Office of Observations
Silver Spring, MD
Email: nws-obs-satellites@noaa.gov

or

AWIPS Network Control Facility (NCF) Help Desk
NOAA/NWS Office of Central Processing
Silver Spring, MD
Phone: 888-808-8624

For questions regarding the content or distribution of the products listed here, please contact:

NESDIS User Services
Email: spsd.userservices@noaa.gov

National Service Change Notices are online at:

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

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