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PNSWSH

Service Change Notice 20-03 Updated
National Weather Service Headquarters Silver Spring, MD
325 PM EST Mon Feb 24 2020

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

From: Thomas Cuff
 Director, NWS Office of Observations

Subject: Updated: Addition of Global Blended Hydrology Products
to the NOAAPort/Satellite Broadcast Network (SBN): Effective
March 12, 2020

Updated to:
-Change effective date to March 12, 2020.
-Change verbiage for the termination of legacy blended products
from early May 2020 to mid-June 2020.

Effective on or about 1500 Coordinated Universal Time (UTC)
March 12, 2020, NWS will begin disseminating three new
satellite-based blended hydrology (hydro) products via
NOAAPort/SBN using the following World Meteorological
Organization (WMO) headers:

Blended Hydro Product	WMO Header
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Total Precipitable Water (TPW)	TITX38 KNES
Percent Normal TPW	TICX70 KNES
Rainfall Rate (RR)	TITX39 KNES

The new products have global longitudinal coverage, and nearly-
global latitudinal coverage, with valid data between latitudes
71 S and 71 N. Their cadence is approximately one per hour, and
their horizontal resolution is 0.144 degrees in longitude and
latitude (i.e., from 16x16 km at the equator to 5x16km at 71 N/S
latitude, similar to the horizontal resolution found in the
legacy products). The new products draw upon observations from
at least these satellites: NOAA-19, NOAA-20, Metop-A, Metop-B,
S-NPP, Global Change Observation Mission-Water (GCOM-W), the

Global Precipitation Measurement (GPM) network of satellites, and the Global Positioning System (GPS).

Rain Rate sources also include the Special Sensor Microwave Imagery/Sounder (SSMIS) polar F17 and F18 satellites from the Department of Defense (DoD) Defense Meteorological Satellite Program. The new products contain the age and source information for each data point.

Approximate counts and volumes for the new blended hydro products are as follows:

Blended Product (to be Activated)	Hourly Count	Hourly Volume
Total Precipitable Water (TPW)	1	9.5MB
Percent Normal TPW (PCT)	1	9.5MB
Rainfall Rate (RR)	1	3.5MB

Because of their near-global coverage, these new products will not have separate geographic sectors (e.g., no Hawaii, Alaska, Puerto Rico and Supernational sectors). NOAA's Office of Satellite Product Operations (OSPO) provides further details for TPW: <https://www.ospo.noaa.gov/Products/bTPW> and RR: <https://www.ospo.noaa.gov/Products/bRR>

The SBN's NOAAPort_OPT Channel (Port 1204, PID 104) will be used to disseminate these products.

The dissemination of the GOES Ingest NOAAPort Interface (GINI) formatted version of the legacy blended hydro products, as shown below, will be terminated from the NOAAPort_OPT Channel (Port 1204, PID 104) in mid-June 2020. These products are sectorized in categories of Supernational, Alaska, Puerto Rico, and Hawaii. A separate Service Change Notice will be issued in advance of NWS terminating these products:

Legacy product (to be deactivated)	WMO Header	Sector
Total Precipitable Water (TPW)	TICB17 KNES	Alaska
Total Precipitable Water (TPW)	TICI17 KNES	Hawaii
Total Precipitable Water (TPW)	TICQ17 KNES	Puerto Rico
Total Precipitable Water (TPW)	TICN17 KNES	Supernational
Percent Normal TPW (PCT)	TICB60 KNES	Alaska
Percent Normal TPW (PCT)	TICI60 KNES	Hawaii
Percent Normal TPW (PCT)	TICQ60 KNES	Puerto Rico
Percent Normal TPW (PCT)	TICN60 KNES	Supernational
Rainfall Rate (RR)	TITB29 KNES	Alaska

Rainfall Rate (RR)	TITI29 KNES	Hawaii
Rainfall Rate (RR)	TITQ29 KNES	Puerto Rico
Rainfall Rate (RR)	TITN29 KNES	Supernational

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

For questions pertaining to this change or upcoming plans regarding Global Blended Hydro products on SBN, please contact:

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Silver Spring, MD
Email: brian.gockel@noaa.gov

and

AWIPS Network Control Facility (NCF) Help Desk
NOAA/NWS Office of Central Processing
Silver Spring, MD
Phone: 301-713-9344

For questions regarding the content or distribution of the Global Blended Hydro products, please contact:

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

National Service Change Notices are online at:

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

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