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PNSWSH

Service Change Notice 20-03
National Weather Service Headquarters Silver Spring MD
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To: Subscribers:
 -NOAA Weather Wire Service
 -Emergency Managers Weather Information Network
 -NOAAPort
 Other NWS Partners and NWS Employees

From: Thomas Cuff
 Director, NWS Office of Observations

Subject: Addition of Global Blended Hydrology products to the
 NOAAPort/Satellite Broadcast Network (SBN) effective
 January 29, 2020

Effective on or about 1500 UTC January 29, 2020, NWS will begin disseminating three new satellite-based blended hydrology (hydro) products via NOAAPort/SBN using the following 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 deg 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). They 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 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
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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 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 early May 2020. These products are sectorized in categories of Supernational, Alaska, Puerto Rico and Hawaii. NWS will issue a separate Service Change Notice before 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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and

AWIPS Network Control Facility (NCF) Help Desk
NOAA/NWS Office of Central Processing
Silver Spring, MD 20910
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, Maryland 20746
301-817-3880
ESPCOperations@noaa.gov

National Service Change Notices are online at:
<https://www.weather.gov/notification/>

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