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PNSWSH

Technical Implementation Notice 15-44
National Weather Service Headquarters Washington DC
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From: David Novak
 Director, Weather Prediction Center

Subject: Change to the Product Definition Template Generating Process Identifier for the WPC Probabilistic Quantitative Precipitation Forecast and Percentile Precipitation Accumulation GRIB2 Files: Effective October 15, 2015

Effective Thursday, October 15, 2015, at 1800 Coordinated Universal Time (UTC), the National Centers for Environmental Prediction's (NCEP's) Weather Prediction Center (WPC) will change the Product Definition Template 4.9 Generating Process Identifier for the WPC Probabilistic Quantitative Precipitation Forecast (PQPF) Gridded Binary 2 (GRIB2) files from 180 to 221. This change will resolve a decoding conflict between the PQPF and WPC's Quantitative Precipitation Forecasts.

Additionally, WPC will change the Product Definition Template 4.10 Generating Process Identifier for the WPC Percentile Precipitation Accumulation GRIB2 files to 221 for the 10th, 50th and 90th Percentiles. This will allow the PQPF and all Percentiles Forecasts to be consistent.

Table 1: Percentile Accumulation Generating Process ID Change

Percentile Process	ID Change
10th	222 -> 221
50th	224 -> 221
90th	226 -> 221

Products Affected by this Implementation Notice: World Meteorological Organization (WMO) Headers follow

Template T1 T2 A1 A2 ii cccc
T1 = H
T2 = E
A1 = N

A2 specifies the forecast hours as follows B=06; C=12; D=18; E=24; F=30; G=36; H=42; I=48; X=54; J=60; Y=66; K=72

ii specifies the exceedance probabilities for the Probabilistic Quantitative Precipitation Forecast or the Percentile Accumulation

threshold:

11=6-hour Probability >= 0.01
12=6-hour Probability >= 0.25
13=6-hour Probability >= 0.50
14=6-hour Probability >= 1.00
15=6-hour Probability >= 2.00
16=6-hour Probability >= 4.00
17=24-hour Probability >= 1.00
18=24-hour Probability >= 2.00
19=24-hour Probability >= 4.00
20=24-hour Probability >= 8.00
21=24-hour Probability >= 16.00
22=72-hour Probability >= 1.00
23=72-hour Probability >= 2.00
24=72-hour Probability >= 4.00
25=72-hour Probability >= 8.00
26=72-hour Probability >= 16.00
51=6-hour 10th Percentile Accumulation
52=6-hour 50th Percentile Accumulation
53=6-hour 90th Percentile Accumulation
54=24-hour 10th Percentile Accumulation
55=24-hour 40th Percentile Accumulation
56=24-hour 90th Percentile Accumulation
57=72-hour 10th Percentile Accumulation
58=72-hour 50th Percentile Accumulation
59=72-hour 90th Percentile Accumulation

cccc=KWNH

Users who ingest the GriB2 files may need to update their procedures and scripts in order to properly decode the QPF. The GRIB2 files are available at NOAAPort.

No additional changes will be made to product contents or availability for this implementation.

For more information, please contact:

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National Technical Implementation Notices are online at:

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

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