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PNSWSH

Technical Implementation Notice 14-28, Corrected  
National Weather Service Headquarters Washington DC  
1205 PM EDT Fri Jul 18 2014

To:     Subscribers:  
       -Family of Services  
       -NOAA Weather Wire Service  
       -Emergency Managers Weather Information Network  
       -NOAAPORT  
       Other NWS Partners and NWS Employees

From:    Timothy McClung  
          Chief, Science Plans Branch  
          Office of Science and Technology

Subject:  Corrected: High-Resolution Rapid Refresh Model Added  
          to SBN and NOAAPort Effective September 16, 2014

Modified to correct WMO Headers

Effective Tuesday, September 16, 2014, with the 1200 Coordinated Universal Time (UTC) run, the High-Resolution Rapid Refresh (HRRR) model produced by the National Centers for Environmental Prediction will be added to the Satellite Broadcast Network (SBN) and NOAAPORT.

The HRRR model is a 3 km, hourly model with explicit convection that is initialized by the 13 km Rapid Refresh Model. A 1-hour spin-up forecast is run, introducing temperature tendencies obtained from assimilating radar data every 15 minutes during the hour to help initialize ongoing convection. A 3 km Gridpoint Statistical Interpolation (GSI) analysis is then performed before the 15-hour model integration.

The grid NWS will provide over the SBN and NOAAPORT is the 2.5 km National Digital Forecast Database grid #184. This grid is not the expanded 2.5 km grid #187. The data will be provided for the analysis and each forecast hour out to the end of the model integration at hour 15. The sub-hourly (15 minute) HRRR output will not be available over the SBN or NOAAPORT with this initial release and datasets will only be available in GRIB2 format.

The 00-hr GRIB2 files will be available approximately 47 minutes after the synoptic time and will arrive sequentially with the final 15-hour files available approximately 83 minutes after the synoptic time. The per cycle data volume will be approximately 1.9 GB.

The WMO Heading for these products will be as follows:

T1: DATA FORMAT OF GRIB2 /Y/  
T2: PARAMETER CODE /ONE OF ADEFHKMNOPQRSTUVWXYZ/  
A1: GRID CODE /C/  
A2: FORECAST TIME /ONE OF ABCDEFGHIJKLMZ/  
II: LAYER OR LEVEL /ONE OF 00 01 50 70 73 74 85 86 89 92 98  
99/  
CCCC: KWBY

A complete explanation of the WMO headers for all of the products is available at:

[http://www.nco.ncep.noaa.gov/pmb/changes/hrrr\\_wmo\\_headers.shtml](http://www.nco.ncep.noaa.gov/pmb/changes/hrrr_wmo_headers.shtml)

Information on WMO Headers and NCEP GRIB messages is online at:

<http://www.nco.ncep.noaa.gov/pmb/docs/on388/appendixa.html>

A complete Technical Implementation Notice with detailed HRRR implementation information will be sent by the end of July.

For questions concerning the HRRR model, contact:

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National Technical Implementation Notices are online at:

<http://www.weather.gov/os/notif.htm>

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