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Technical Implementation Notice 14-28
National Weather Service Headquarters Washington DC
230 PM EDT Mon Sep 8 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: Amended: High-Resolution Rapid Refresh Model Added
 to SBN and NOAAPORT Effective September 30, 2014

Amended to change effective date to September 30, 2014 and to
mention the gradual turn on of data to NOAAPORT

Effective Tuesday, September 30, 2014, with the 1400 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

Note: NOAAPORT data dissemination will begin October 01, 2014 and parameters will be turned on gradually until all parameters are available by the end of October 02, 2014.

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

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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