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Technical Implementation Notice 11-20
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 Office of Science and Technology

Subject: Addition of 2.5 km RTMA Products to NOAAPort

The National Centers for Environmental Prediction (NCEP) is now disseminating new Real Time Mesoscale Analysis (RTMA) products for the contiguous United States (CONUS) on NOAAPort. The RTMA is a set of gridded surface analyses and surface analysis uncertainty fields made available at an hourly temporal frequency. The CONUS RTMA was previously only available on NOAAPort at a horizontal resolution of five kilometers (km). These new RTMA products have a horizontal resolution of 2.5 km.

The grids listed in Table 1 below are available at a resolution of 2.5 km. The Geostationary Orbiting Environmental Satellite (GOES) effective cloud amount is not available at the 2.5 km resolution and will continue to be provided at a horizontal resolution of five km.

The intention is to remove the five km RTMA products (with the exception of the GOES effective cloud amount) from NOAAPort and all other distribution methods once sufficient time has passed to allow necessary software upgrades. A separate announcement will be sent prior to removing the five km products.

Table 1: CONUS RTMA Products Available at 2.5 km Resolution and their Associated World Meteorological Organization (WMO) Headers

WMO Header	RTMA Parameter
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LTIA98 KWBR	temperature
LTIA98 KWBR	temperature analysis uncertainty
LRIA98 KWBR	dewpoint temperature
LRIA98 KWBR	dewpoint temperature uncertainty
LNIA98 KWBR	wind speed
LNIA98 KWBR	wind speed analysis uncertainty
LNIA98 KWBR	wind direction
LNIA98 KWBR	wind direction analysis uncertainty
LUIA98 KWBR	u wind component
LVIA98 KWBR	v wind component

LEIA98 KWBR accumulated precipitation
LPIA98 KWBR surface pressure analysis
LPIA98 KWBR surface pressure analysis uncertainty
LHIA98 KWBR model terrain height

The RTMA data for the CONUS is also available from the National Digital Guidance Database (NDGD) at:

<ftp://tgftp.nws.noaa.gov/SL.us008001/ST.expr/DF.gr2/DC.ndgd/GT.rtma/AR.conus>

and on the NCEP server at:

<http://www.ftp.ncep.noaa.gov/data/nccf/com/rtma2p5/prod> or
<ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/rtma2p5/prod>

There are three files for each hour located on the NCEP server. Files with names such as rtma2p5.t00z.2dvaran1_ndfd.grb2 contain all of the RTMA analysis fields and the associated errors, with the exception of precipitation.

Files with names such as rtma2p5.t00z.2dvarges_ndfd.grb2 contain the first guess fields used by the RTMA. Files with names such as rtma2p5.t00z.pcpn_ndfd.grb2 contain the precipitation analysis.

NCEP will continue to refine the RTMA. Users may provide feedback on the experimental RTMA products at:

<http://www.weather.gov/survey/nws-survey.php?code=rtma>

For questions regarding the RTMA, please contact:

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For questions regarding the dataflow aspects of these data sets, please contact:

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National Technical Implementation Notices are online at:

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

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