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PNSWSH

Public Information Statement, Comment Request
National Weather Service Headquarters Washington DC
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From: Geoff DiMego, Chief
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Subject: Soliciting Public Comments through December 12, 2011, on the
Removal of Some Obsolete RUC Model Output

The National Centers for Environmental Prediction (NCEP) will be replacing the Rapid Update Cycle (RUC) model with the Rapid Refresh (RAP) in early 2012. Please see NWS [Technical Implementation Notice \(TIN\) 11-36](#) announcing the intent to make this change. Based on NCEP's current knowledge of RUC user requirements, NCEP is trying to continue providing all pertinent output products from the RAP now produced from the RUC. In the interest of making the best use of resources across the enterprise, NWS is proposing to remove several obsolete RUC products when the transition to the RAP occurs. Details are given below about the products slated for removal. NWS is seeking comments on this proposed change through December 12, 2011.

The RUC and subsequent RAP models have a native resolution of 13km. RUC output is produced on 13, 20, and 40 km output grids that cover the domain slightly larger than the contiguous U.S. (CONUS). The RAP covers a much larger domain; a new 32 km full-domain and 11 km Alaska regional grids will be generated in addition to all of the current grids generated in the RUC with the exceptions listed in the next section.

The products NCEP is proposing to remove are the following:

80 km output grids: 80 km grids represent an inferior grid resolution; output is only available for a small fraction of the cycles and forecast hours for which the RUC and RAP are run. These products are available on NOAAPort under the World Meteorological Organization (WMO) headers Y*Q*** KWBG and Z*Q*** KWBG, where the * digits of the header varies depending on the element and time for which the grid is valid. The 80 km grids are available in aggregated files at the following locations:

NWS FTP server:

ftp://tgftp.nws.noaa.gov/SL.us008001/ST.opnl/MT.ruc_CY.hh/RD.YYYYMMDD/PT.grid_DF.gr2/fh.xxxx_tl.press_gr.us80km

where hh is the model cycle, YYYYMMDD is the date, and xxxx is the forecast projection.

NCEP server:

<ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/ruc/prod/ruc2a.YYYYMMDD/ruc2.tccz.grb2fxx.grib2>

where YYYYMMDD is the date, cc the model cycle, and xx the forecast projection.

Surface "sgrb" files: These surface files were originally created to contain a small subset of RUC output fields. All of the fields in the sgrb files are available in the 13, 20, and 40 km pgrb files for users to obtain, duplicating output. The sgrb files are currently available in aggregated files at the following locations:

NWS FTP server:

<ftp://tgftp.nws.noaa.gov/SL.us008001/ST.opnl/MT.ruc CY.hh/RD.YYYYMMDD/PT.grid DF.gr2/>

where hh is the model cycle and YYYYMMDD is the date. The filenames are fh.xxxx_tl.press_gr.sgrib for the 40 km grid and fh.xxxx_tl.press_gr.sgrib20 for the 20 km grid, where xxxx is the forecast projection.

NCEP server:

<ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/ruc/prod/ruc2a.YYYYMMDD>

where YYYYMMDD is the date. The filenames are ruc2.tccz.sgrbfxx.grib2 for the 40 km grid and ruc2.tccz.sgrb20fxx.grib2 for the 20 km grid, where cc is the model cycle, and xx the forecast projection.

The sgrb files are also available on NCEP's NOAA Operational Archive Model and Distribution System (NOMADS) through the GRIB filter application at:

http://nomads.ncep.noaa.gov/cgi-bin/filter_ruc.pl

40 km "bgrb" output grids containing output on the native levels: Most users use model output on pressure levels; the RUC/RAP output on native levels will continue to be available at finer resolutions than 40 km. The 40 km "bgrb" files are available in aggregated files at the following locations:

NWS FTP server:

ftp://tgftp.nws.noaa.gov/SL.us008001/ST.opnl/MT.ruc CY.hh/RD.YYYYMMDD/PT.grid DF.gr2/fh.xxxx_tl.press_gr.bgrib

where hh is the model cycle, YYYYMMDD is the date, and xxxx is the forecast projection.

NCEP server:

<ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/ruc/prod/ruc2a.YYYYMMDD/ruc2.tccz.bgrbfxx.grib2>

where YYYYMMDD is the date, cc the model cycle, and xx the forecast projection.

NWS will evaluate all comments to determine whether to proceed with this change as part of the RUC to RAP transition. NCEP will issue another TIN if the decision is made to terminate any or all of these products.

Send comments on this proposal to:

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National Public Information Statements are online at:

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

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