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PNSWSH

Service Change Notice 22-54
National Weather Service Headquarters Silver Spring MD
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From: Jason Levit
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 NCEP/Environmental Modeling Center

Subject: Addition of New Parameter to Several RAP Output Grids: Effective
 July 19, 2022

Effective on or about July 19, 2022 with the 1200 Coordinated Universal
Time (UTC) cycle, the National Centers for Environmental Prediction (NCEP)
will make an update to the Rapid Refresh (RAP) data via several
transmission methods.

A) Additional Field

The aerosol optical thickness field (grib2 discipline 0, category 20,
parameter 102) will be added to three following RAP output grids on the
NOAA Operational Model Archive and Distribution System (NOMADS)/ftpprd and
a single file on the NWS website TGFTP. No parameters will be removed. A
WGRIB2 listing of these files will show "AOTK" as the new parameter.

This change will affect files on NOMADS and the NWS TGFTP server; it will
not affect RAP files sent over the Satellite Broadcast Network (SBN). On
the TGFTP server, the relevant RAP file names are:

https://tgftp.nws.noaa.gov/SL.us008001/ST.opnl/MT.rap_CY.HH/RD.YYYYMMDD/PT.grid_DF.gr2/fh.00XX_t1.press_gr.us13km
ftp://tgftp.nws.noaa.gov/SL.us008001/ST.opnl/MT.rap_CY.HH/RD.YYYYMMDD/PT.grid_DF.gr2/fh.00XX_t1.press_gr.us13km

On the NOMADS/ftpprd server, the relevant directories are:

<https://nomads.ncep.noaa.gov/pub/data/nccf/com/rap/prod/rap.YYYYMMDD/>
<https://nomads.ncep.noaa.gov/pub/data/nccf/com/rap/v5.1/rap.YYYYMMDD/>
<ftp://ftpprd.ncep.noaa.gov/pub/data/nccf/com/rap/prod/rap.YYYYMMDD/>
<ftp://ftpprd.ncep.noaa.gov/pub/data/nccf/com/rap/v5.1/rap.YYYYMMDD/>

The file names are rap.tHHz.awip32fXX.grib2 (32 km North American grid),
rap.tHHz.awp130pgrbfXX.grib2 (13 km contiguous U.S. (CONUS) grid), and
rap.tHHz.awp242fXX.grib2 (16 km Alaska grid)

Where HH is the cycle (00-23), YYYYMMDD is the year/month/date, and XX
is the forecast hour.

B) Test Data

A test data set from a cycle of the RAP, with the aforementioned changes will be made available on <https://para.nomads.ncep.noaa.gov> for users to test their ability to ingest the model data following the implementation of the changes.

If you have any questions regarding this change, please contact:

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If you have questions regarding the data flow aspects please contact:

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National Service Change Notices are online at:

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

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