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PNSWSH

Service Change Notice 19-81 Updated
National Weather Service Headquarters Silver Spring MD
218 PM EDT Wed Sep 18 2019

To: Subscribers:
 -NOAA Weather Wire Service
 -Emergency Managers Weather Information Network
 -NOAAPort
 Other NWS Partners and Employees

From: Bob Maxson
 Acting Director
 National Centers for Environmental Prediction

Subject: Updated: Graphical Turbulence Guidance Product: Effective
November 12, 2019

Updated to correct gridded binary version 2 (GRIB 2) Parameter 21 (CAT)
to Parameter 22 (CAT).

Effective on or about Tuesday, November 12, 2019, beginning with the 1200
Coordinated Universal Time (UTC) run, the National Centers for
Environmental Prediction (NCEP) will switch the production of the
Aviation Weather Center's (AWC's) Graphical Turbulence Guidance (GTG) to
the Rapid Refresh (RAP) Unified Post-processor. This will necessitate
variable name changes to product output on NOAAPort/Satellite Broadcast
Network (SBN) and NWS Web Services.

Data are available on NOAAPort/SBN and in GRIB2 on the NWS Web Services
here:

[https://tgftp.nws.noaa.gov/SL.us008001/DC.avspt/DS.gtgggb/PT.grid_DF.gr2/
ftp://tgftp.nws.noaa.gov/SL.us008001/DC.avspt/DS.gtgggb/PT.grid_DF.gr2/](https://tgftp.nws.noaa.gov/SL.us008001/DC.avspt/DS.gtgggb/PT.grid_DF.gr2/ftp://tgftp.nws.noaa.gov/SL.us008001/DC.avspt/DS.gtgggb/PT.grid_DF.gr2/)

- The GRIB2 parameter ID's for Clear Air Turbulence will change:
 From Parameter 22 (CAT) to Parameter 29 (CATEDR)
- The GRIB2 parameter ID's for Maximum Turbulence will change:
 From Parameter 219 (TPFI) to Parameter 31 (MXEDPRM)

These data will continue to be provided over the SBN and NOAAPort. The
World Meteorological Organization (WMO) headings for the CAT (now CATEDR)
products are not changing, and are as follows:

T1: DATA FORMAT OF GRIB2 /Y or Z/
T2: PARAMETER CODE OF /V/
A1: GRID CODE /W/
A2: FORECAST TIME /ONE OF ABCDGJMPS/
 *A = Analysis
 *B = 01 HOUR FORECAST
 *C = 02 HOUR FORECAST
 *D = 03 HOUR FORECAST
 *G = 06 HOUR FORECAST
 *J = 09 HOUR FORECAST

*M = 12 HOUR FORECAST
*P = 15 HOUR FORECAST
*S = 18 HOUR FORECAST
II: LAYER OR LEVEL /ONE OF 14-27 29 30 32-34 36 38 39 41 43
45 46 48 50 53 55 57 60 62 65 67 70 73 75 78 81 84 85 90 93 95/
CCCC: KKCI

The WMO headings for the MWT (now MWTURB) products are not changing and are as follows:

T1: DATA FORMAT OF GRIB2 /Y/
T2: PARAMETER CODE OF /W/
A1: GRID CODE /N/
A2: FORECAST TIME /ONE OF ABCDGJMPS/
*A = Analysis
*B = 01 HOUR FORECAST
*C = 02 HOUR FORECAST
*D = 03 HOUR FORECAST
*G = 06 HOUR FORECAST
*J = 09 HOUR FORECAST
*M = 12 HOUR FORECAST
*P = 15 HOUR FORECAST
*S = 18 HOUR FORECAST
II: LAYER OR LEVEL /ONE OF 14-27 29 30 32-34 36 38 39 41 43
45 46 48 50 53 55 57 60 62 65 67 70 73 75 78 81 84 85 90 93 95/
CCCC: KKCI

Additional changes include the unmasking of MWTURB data, providing a full grid of data.

Changes will also be applied to the Aviation Digital Data Service (ADDS) to continue the product availability:

<https://www.aviationweather.gov/>

Sample data will be available here:

<https://para.nomads.ncep.noaa.gov/pub/data/nccf/noaaport/rap/>

NCEP will evaluate feedback and decide whether to proceed. If you have any questions regarding the updated Graphical Turbulence Guidance Product, please contact either:

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

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National Service Changes Notices are online at:
<https://www.weather.gov/notification/>

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