

NOUS41 KWBC 181818 AAA  
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, Users 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 two (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.gtggb/PT.grid\\_DF.gr2/  
ftp://tgftp.nws.noaa.gov/SL.us008001/DC.avspt/DS.gtggb/PT.grid\\_DF.gr2/](https://tgftp.nws.noaa.gov/SL.us008001/DC.avspt/DS.gtggb/PT.grid_DF.gr2/ftp://tgftp.nws.noaa.gov/SL.us008001/DC.avspt/DS.gtggb/PT.grid_DF.gr2/)

- The GRIB2 parameter IDs for Clear Air Turbulence will change from  
Parameter 22 (CAT) to Parameter 29 (CATEDR).
- The GRIB2 parameter IDs 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: K KCI

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: K KCI

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:

Dr. Brian Pettegrew  
Research Meteorologist  
Aviation Weather Center  
816-584-7256  
[brian.p.pettegrew@noaa.gov](mailto:brian.p.pettegrew@noaa.gov)

or

Dr. Joshua Scheck  
Chief, Aviation Support Branch  
Aviation Weather Center  
816-584-7237  
[joshua.scheck@noaa.gov](mailto:joshua.scheck@noaa.gov)

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

Carissa Klemmer  
Chief, NCEP Central Operations IDSB  
[ncep.list.pmb-dataflow@noaa.gov](mailto:ncep.list.pmb-dataflow@noaa.gov)

National Service Change Notices are online at:

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

NNNN