

NOUS41 KWBC 051540  
PNSWSH

Service Change Notice 17-64  
National Weather Service Headquarters Silver Spring MD  
1140 AM EDT Mon Jun 5 2017

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

From:         Dave Myrick  
              NWS Office of Science and Technology Integration

Subject: Upgrade of 2.5 km Gridded Model Output Statistics Guidance over the CONUS to Operational Status on or about July 18, 2017

On or about July 18, 2017, The NWS Meteorological Development Laboratory (MDL) will upgrade the Global Forecast System (GFS)-based Gridded Model Output Statistics (MOS) guidance at 2.5 km resolution over the Continental U.S. (CONUS) from experimental to operational status, replacing the operational 5 km CONUS guidance.

On November 15, 2012, MDL began disseminating experimental 2.5 km Gridded MOS guidance over the CONUS, with the intention of replacing the operational 5 km products at some future date once all users and systems are able to use the higher resolution guidance. These changes were announced in a Public Information Statement issued on October 13, 2011, and in Technical Implementation Notice 12-09. Public Information Statement 17-19 was issued on April 27, 2017, requesting comments on the change. No comments were received. These notices can be viewed at the following links:

[https://www.weather.gov/media/notification/pdfs/pns11\\_2.5km.pdf](https://www.weather.gov/media/notification/pdfs/pns11_2.5km.pdf)  
[https://www.weather.gov/media/notification/tins/tin12-09gmos-conus\\_aaa.pdf](https://www.weather.gov/media/notification/tins/tin12-09gmos-conus_aaa.pdf)  
[https://www.weather.gov/media/notification/pdfs/pns17-19disc5km\\_gmos.pdf](https://www.weather.gov/media/notification/pdfs/pns17-19disc5km_gmos.pdf)

MDL will upgrade the 2.5 km CONUS guidance from experimental to operational status on or about July 18, 2017. At that time, the 5 km gridded binary version two (GRIB2) products will no longer be sent across the Satellite Broadcast Network (SBN) or NOAAPort, and will be replaced with the 2.5 km products in the operational (ST.opnl) directory of the National Digital Guidance Database (NDGD) on the NWS ftp server (TGFTP).

Current location of 2.5 km CONUS Gridded MOS products on TGFTP:

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

Future location of 2.5 km CONUS Gridded MOS products on TGFTP after transition to operational status:

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

A list of 5 km products and associated headers that will be removed from the SBN, NOAAPort and NDGD is provided in Table 1 below. A list of 2.5 km products and associated headers that will be moved from the experimental directory to the operational directory in NDGD is provided in Table 2 below.

Table 1: World Meteorological Organization (WMO) Communication Identifiers for 5 km Gridded MOS Products that Will be Removed from the SBN, NOAAPort, and NDGD (below are representations of the WMO headers)

WMO Heading -----	Element Name -----
LAUxxx KWBQ	Sky Cover
LBUxxx KWBQ	Wind Direction
LCUxxx KWBQ	Wind Speed
LDUxxx KWBQ	12-hour Probability of Precipitation
LEUxxx KWBQ	2-m Temperature
LFUxxx KWBQ	2-m Dewpoint Temperature
LGUxxx KWBQ	Maximum Temperature
LHUxxx KWBQ	Nighttime Minimum Temperature
LIUxxx KWBQ	6-hour Quantitative Precipitation Amount
LJUxxx KWBQ	6-hour Probability of a Thunderstorm
LRUxxx KWBQ	Relative Humidity
LSUxxx KWBQ	24-hour Snowfall Amount
LUUxxx KWBQ	6-hour Probability of Precipitation
LVUxxx KWBQ	12-hour Quantitative Precipitation Amount
LWUxxx KWBQ	Wind Gusts
LXUxxx KWBQ	12-hour Probability of a Thunderstorm
LYUxxx KWBQ	3-hour Probability of a Thunderstorm

Table 2: WMO Super Headers for 2.5 km Gridded MOS Products that will be Moved from the Experimental Directory to the Operational Directory on TGFTP (Below are representations of the super headers, where ii=98 for days 1-3, ii=97 for days 4-7, and ii=96 for days 8 and beyond.)

Super Header -----	Element Name -----
MAUZii KWBQ	Conditional Probability Freezing Precipitation
MBUZii KWBQ	Conditional Probability Frozen Precipitation
MCUZii KWBQ	Conditional Probability Liquid Precipitation
YAUZii KWBQ	Sky Cover
YBUZii KWBQ	Wind Direction
YCUZii KWBQ	Wind Speed
YDUZii KWBQ	12-hour Probability of Precipitation
YEUZii KWBQ	2-m Temperature
YFUZii KWBQ	2-m Dewpoint Temperature
YGUZii KWBQ	Daytime Maximum Temperature
YHUZii KWBQ	Nighttime Minimum Temperature

YIUZii KWBQ	6-hour Quantitative Precipitation Amount
YJUZii KWBQ	6-hour Probability of a Thunderstorm
YLUZii KWBQ	Precipitation Type Best Category
YMUZii KWBQ	Precipitation Potential Index
YNUZii KWBQ	Probability Precipitation Occurrence
YRUZii KWBQ	Relative Humidity
YSUZii KWBQ	24-hour Snowfall Amount
YUUZii KWBQ	6-hour Probability of Precipitation
YVUZii KWBQ	12-hour Quantitative Precipitation Amount
YWUZii KWBQ	Wind Gusts
YXUZii KWBQ	12-hour Probability of a Thunderstorm
YYUZii KWBQ	3-hour Probability of a Thunderstorm
YZUZii KWBQ	Predominant Weather

For questions or comments regarding this change, please contact:

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