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PNSWSH

Technical Implementation Notice 12-55
National Weather Service Headquarters Washington DC
1020 AM EST Wed Nov 14 2012

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From: Tim McClung
Science Plans Branch Chief
Office of Science and Technology

Subject: Addition of WMO Headers to 2.5-km GFS-based Gridded
MOS GRIB2 Products on NWS FTP Server Effective on
or about December 13, 2012

On or about Thursday December 13, 2012, beginning with the 1200 Universal Coordinated Time (UTC) model run, WMO headers will be added to the experimental 2.5-km GFS-based gridded MOS GRIB2 products on the NWS FTP server. At the present time these products do not contain WMO headers. On the change date, each element-specific GRIB2 file will contain a super header and individual headers for each forecast projection. GRIB2 file names for each gridded MOS element are listed in Table 1 below. Representations of the WMO super headers are listed in Table 2 below.

These GRIB2 products are available in the experimental area of the National Digital Guidance Database (NDGD) on the NWS ftp server. Forecast guidance for Days 1 through 3 is available at:

<ftp://tgftp.nws.noaa.gov/SL.us008001/ST.expr/DF.gr2/DC.ndgd/GT.mosgfs/AR.conus/VP.001-003/>

Forecast guidance for days 4 through 7 is available at:

<ftp://tgftp.nws.noaa.gov/SL.us008001/ST.expr/DF.gr2/DC.ndgd/GT.mosgfs/AR.conus/VP.004-007/>

Table 1: GRIB2 file names for each experimental 2.5-km GFS-based Gridded MOS element:

FILE NAME	ELEMENT
ds.sky.bin	Total Sky Cover
ds.wdir.bin	Wind Direction
ds.wspd.bin	Wind Speed

ds.pop12.bin 12-Hour Probability of
 Precipitation
 ds.temp.bin 2-Meter Temperature
 ds.td.bin 2-Meter Dew Point Temperature
 ds.maxt.bin Daytime Maximum Temperature
 ds.mint.bin Nighttime Minimum Temperature
 ds.qpf06.bin 6-h Quantitative Precipitation
 Amount
 ds.pts06.bin 6-h Probability of a Thunderstorm
 ds.rhm.bin Relative Humidity
 ds.snw24.bin 24-h Snowfall Amount
 ds.pop06.bin 6-Hour Probability of
 Precipitation
 ds.qpf12.bin 12-h Quantitative Precipitation
 Amount
 ds.wgust.bin Wind Gusts
 ds.pts12.bin 12-h Probability of a
 Thunderstorm
 ds.pts03.bin 3-h Probability of a Thunderstorm

Table 2: WMO super headers for each experimental 2.5-km GFS-based gridded MOS element. Listed below are representations of the super headers indicated by Z in the 4th character, where ii=98 for short-range guidance (days 1-3) and ii=97 for medium range guidance (days 4-7):

WMO HEADER	ELEMENT
YAUZii KWBQ	Total Sky Cover
YBUZii KWBQ	Wind Direction
YCUZii KWBQ	Wind Speed
YDUZii KWBQ	12-Hour Probability of Precipitation
YEUZii KWBQ	2-Meter Temperature
YFUZii KWBQ	2-Meter Dew Point Temperature
YGUZii KWBQ	Daytime Maximum Temperature
YHUZii KWBQ	Nighttime Minimum Temperature
YIUZii KWBQ	6-h Quantitative Precipitation Amount
YJUZii KWBQ	6-h Probability of a Thunderstorm
YRUZii KWBQ	Relative Humidity
YSUZii KWBQ	24-h Snowfall Amount
YUUZii KWBQ	6-Hour Probability of Precipitation
YVUZii KWBQ	12-h Quantitative Precipitation Amount
YWUZii KWBQ	Wind Gusts
YXUZii KWBQ	12-h Probability of a Thunderstorm
YYUZii KWBQ	3-h Probability of a Thunderstorm

A complete list of the WMO headers is available at:

<http://www.nws.noaa.gov/mdl/synop/gmos/gmos2p5headers.pdf>

A Web page outlining the gridded MOS guidance and the FTP server structure can be found at:

<http://www.nws.noaa.gov/mdl/synop/gmos.php>

For questions regarding the experimental 2.5-km gridded MOS guidance for the CONUS please contact:

Kathryn Gilbert
MDL/Silver Spring, Maryland
301-713-0023, Ext. 130
Kathryn.Gilbert@noaa.gov

Links to all MOS products and descriptions are at:

<http://www.nws.noaa.gov/mdl/synop>

NWS national TINs are online at:

<http://www.weather.gov/os/notif.htm>

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