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Technical Implementation Notice 12-55
National Weather Service Headquarters Washington DC
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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 Coordinated Universal Time (UTC) model run, World Meteorological Organization (WMO) headers will be added to the experimental 2.5-km Global Forecast System (GFS)-based gridded Model Output Statistics (MOS) gridded binary version 2 (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 superheader 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 one through three 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 four through seven 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-hour Quantitative Precipitation Amount
ds.pts06.bin	6-hour Probability of a Thunderstorm
ds.rhm.bin	Relative Humidity
ds.snw24.bin	24-hour Snowfall Amount
ds.pop06.bin	6-hour Probability of Precipitation
ds.qpf12.bin	12-hour Quantitative Precipitation Amount
ds.wgust.bin	Wind Gusts
ds.pts12.bin	12-hour Probability of a Thunderstorm
ds.pts03.bin	3-hour Probability of a Thunderstorm

Table 2: WMO Superheaders for each Experimental 2.5-km GFS-based Gridded MOS Element. Listed below are representations of the superheaders 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
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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-hour Quantitative Precipitation Amount
YJUZii KWBQ	6-hour Probability of a Thunderstorm
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

A complete list of the WMO headers is available at:

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

A Webpage 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 contiguous U.S. (CONUS), please contact:

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

Links to all MOS products and descriptions are at:

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

National Technical Implementation Notices are online at:

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

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