

NOUS41 KWBC DDHHMM AAA
PNSWSH

Technical Implementation Notice 12-09 Amended
National Weather Service Headquarters Washington DC
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-NOAA Weather Wire Service
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From: Tim McClung
Science Plans Branch Chief
Office of Science and Technology

Subject: Amended: Addition of Experimental 2.5-km GFS-based
Gridded MOS Guidance for the CONUS to SBN and NOAAPORT
Effective on or about November 15, 2012

Amended to announce dissemination of experimental 2.5-km Global
Forecast System (GFS)-based gridded MOS guidance for the CONUS
across the Satellite Broadcast Network (SBN) and NOAAPORT.

On or about Thursday November 15, 2012, beginning with the 1200
Universal Coordinated Time (UTC) model run, the NWS
Meteorological Development Laboratory will disseminate
experimental GFS-based 2.5-km gridded MOS guidance for the CONUS
across the SBN and NOAAPORT. The experimental 2.5-km guidance
will continue to be available on the NWS FTP server in GRIB2
format. GRIB2 file names for each gridded MOS element are listed
in Table 1 below. New WMO communication identifiers for these
products are shown in Table 2 below.

These MOS products contain guidance on a 2.5-km Lambert Conformal
grid covering the same expanse as the National Digital Forecast
Database (NDFD) CONUS grid. Grids are being generated from the
0000 and 1200 UTC model runs at projections of 1 to 7 days in
advance. Guidance is available for the following elements:

- Daytime Maximum and Nighttime Minimum Temperature
- 2-Meter Temperature
- 2-Meter Dewpoint Temperature
- Relative Humidity
- Wind Direction
- Wind Speed
- Wind Gusts
- Probability of Precipitation /6-h and 12-h/
- Probability of a Thunderstorm /3-, 6-, and 12-h/
- Quantitative Precipitation Amount /6-h and 12-h/
- Total Sky Cover

24-h Snowfall Amount

A Web page providing more information regarding grid specifications, GRIB2 encoding and elements for which guidance is available is referenced below.

These GRIB2 products are already 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.mo sgfs/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.mo sgfs/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: Communication identifiers for the experimental GFS-based 2.5-km gridded MOS GRIB2 products. Each GRIB2 product has a unique WMO header. Listed below are representations of the WMO headers for each element. A complete list of the WMO headers is available at:

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

WMO HEADER ELEMENT

YAUXXX KWBQ Total Sky Cover
YBUXXX KWBQ Wind Direction
YCUXXX KWBQ Wind Speed
YDUXXX KWBQ 12-Hour Probability of
Precipitation
YEUXXX KWBQ 2-Meter Temperature
YFUXXX KWBQ 2-Meter Dew Point Temperature
YGUXXX KWBQ Daytime Maximum Temperature
YHUXXX KWBQ Nighttime Minimum Temperature
YIUXXX KWBQ 6-h Quantitative Precipitation
Amount
YJUXXX KWBQ 6-h Probability of a Thunderstorm
YRUXXX KWBQ Relative Humidity
YSUXXX KWBQ 24-h Snowfall Amount
YUUXXX KWBQ 6-Hour Probability of
Precipitation
YVUXXX KWBQ 12-h Quantitative Precipitation
Amount
YWUXXX KWBQ Wind Gusts
YXUXXX KWBQ 12-h Probability of a Thunderstorm
YYUXXX KWBQ 3-h Probability of a Thunderstorm

The experimental 2.5-km products are an addition to the gridded MOS suite, not a replacement for the current 5-km gridded MOS guidance. Customers who use the 5-km guidance over the CONUS can continue to use these products without disruption until all customers and systems are able to use the higher resolution guidance.

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:

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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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