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Technical Implementation Notice 10-27: Amended
National Weather Service Headquarters Washington DC
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From: Tim McClung
Science Plans Branch Chief
Office of Science and Technology

Subject: Amended: Addition of GFS-Based Gridded MOS Guidance
For Hawaii Postponed to November 9, 2010

Amended to postpone effective date for addition of GFS-based gridded MOS guidance for Hawaii from November 2, 2010 to November 9, 2010. Implementation was delayed by 1 week to allow sufficient time for evaluation. The point of contact for this implementation also has been changed.

Effective Tuesday, November 9, 2010, NWS will produce new global forecast system (GFS)-based gridded MOS guidance for Hawaii and disseminate it on the satellite broadcast network (SBN, NOAAPORT) and the NWS ftp server. These guidance products will be in grib2 format. The new communication identifiers for these products are shown in Table 1 below.

The gridded MOS products will contain guidance on a 2.5 km Mercator grid covering the same expanse as the National Digital Forecast Database (NDFD) Hawaii grid. Grids will be generated from the 0000 and 1200 Universal Coordinated Time (UTC) model runs at projections of 1 to 7 days in advance. Guidance will initially be available for the following elements with others to be added at a later date:

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/

A web page providing more information regarding grid specifications, grib2 encoding and elements for which guidance

is available is referenced below.

The grib2 products will be provided as part of the National Digital Guidance Database (NDGD). These products will initially be available on the NWS ftp server at:

<ftp://tgftp.nws.noaa.gov/sl.us008001/st.expr/df.gr2/dc.ndgd/gt.mosgfs/ar.hawaii>

Table 1: Communication Identifiers for the GFS-Based Gridded MOS Grib2 Products for Hawaii

WMO HEADING	ELEMENT
LBSXXX KWBQ	Wind Direction
LCSXXX KWBQ	Wind Speed
LDSXXX KWBQ	12-Hour Probability of Precipitation
LESXXX KWBQ	2-Meter Temperature
LFSXXX KWBQ	2-Meter Dew Point Temperature
LGSXXX KWBQ	Daytime Maximum Temperature
LHSXXX KWBQ	Nighttime Minimum Temperature
LRSXXX KWBQ	Relative Humidity
LUSXXX KWBQ	6-Hour Probability of Precipitation
LWSXXX KWBQ	Wind Gusts

Each grib2 product has a unique WMO header. The table above lists representations of the WMO headers. A complete list of gridded MOS WMO headers is available at:

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

A web page outlining the gridded MOS guidance and the ftp server structure can be found online at:

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

For questions regarding the new gridded MOS guidance for Hawaii please contact:

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Links and descriptions to the MOS products are online:

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

NWS national TINs are online at:

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

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