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Technical Implementation Notice 15-52
National Weather Service Headquarters Washington DC
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From: Tim McClung
Portfolio Manager
Office of Science and Technology Integration

Subject: Changes to 2.5-km GFS-based Gridded MOS guidance for
the CONUS effective December 15, 2015

On or about Tuesday, December 15, 2015, beginning with the 1200 Coordinated Universal Time (UTC) model run, the NWS Meteorological Development Laboratory (MDL) will implement a minor change to the 2.5-km Global Forecast System (GFS)-based Gridded MOS guidance over the continental U.S. During a previous MOS upgrade in January 2015, a bug was introduced which caused all mesonet stations to drop out of the analysis for temperature and wind elements. This bug resulted in a noticeable degradation of the Gridded MOS guidance especially in areas of terrain over the western U.S.

This update will reincorporate between 450-600 mesonet stations (depending on season) into the Gridded MOS analysis dropped in the January upgrade, resulting in improved terrain detail and overall improved quality of the guidance. Additional mesonet stations will be introduced into the analysis in a future upgrade after retuning efforts are completed.

Beginning approximately 1 month prior to the implementation date, users may find parallel data for download on NOAA's Parallel Operational Model Archive and Distribution System (NOMADS) at the following link:

<http://para.nomads.ncep.noaa.gov/pub/data/nccf/com/gfs/para>

For questions regarding the changes to GFS-based Gridded MOS guidance for the CONUS please contact:

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A Web page outlining the gridded MOS guidance can be found at:

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

Links to MOS products and descriptions are online at:

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

NWS national Technical Implementation Notices are online at:

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

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