

NOUS41 KWBC 151455 AAA
PNSWSH

Technical Implementation Notice 13-30, Amended
National Weather Service Headquarters Washington DC
1055 AM EDT Fri Oct 25 2013

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

Subject: Amended: Update to GFS-based Model Output Statistics
(MOS) Wind Guidance and resulting changes to LAMP wind
guidance, effective November 5, 2013

Amended to change the implementation date from October 22, 2013
to November 5, 2013

On Tuesday, November 5, 2013, beginning with the 1200 Coordinated
Universal Time (UTC) model cycle, the NWS Meteorological
Development Laboratory will implement new Global Forecast System
(GFS)-based Model Output Statistics (MOS) wind speed and
direction guidance for sites available in the short-range (MAV)
and extended-range (MEX) text bulletins. These new equations
correct bias changes in the GFS model upgrade implemented
May 10, 2011.

www.nws.noaa.gov/os/notification/tin11-07gfs_update_aaa.htm

Wind equations for the warm season (valid April 1 through
September 30) were updated on June 12, 2012.

http://www.nws.noaa.gov/om/notification/tin12-25gfs_mos-aaa.htm

These changes also will impact the GFS-based Localized Aviation
MOS Program (LAMP) beginning with the 1600 UTC cycle.

Wind equations are being replaced for the cool season for the
majority of the stations over CONUS, Alaska, Hawaii, Puerto Rico,
and Canada.

Three METAR sites in the West no longer report or do not contain
a sufficient number of wind observations from which to develop
new equations. Forecasts produced from the old equations are
significantly degraded. Guidance for wind direction and speed are
now missing for the following three sites for all cycles and

projections in the GFS MOS bulletins:

K3A6 Newhall, CA
KTDO Toledo-Winlock Memorial, WA
KVTP La Veta Mountain, CO

These changes will slightly alter the format of the GFS MOS text products because lines for wind direction and speed will be removed for the three sites listed above.

As a result of the GFS MOS change above, LAMP guidance for wind direction, speed and gusts will now be missing for the following three sites for all cycles and projections in the LAMP LAV bulletins and BUFR messages:

K3A6 Newhall, CA
KTDO Toledo-Winlock Memorial, WA
KVTP La Veta Mountain, CO

In addition, guidance for wind direction and speed has been added for the following four Air Force sites for all cycles and projections in the Air Force MAV and MEX bulletins:

K2DP Dare County Gunnery Range, NC
KBIF Biggs Army Airfield, TX
KBYS Bicycle Lake Army Airfield, CA
KL35 Big Bear City Airport, CA

These changes will slightly alter the format of the Air Force MAV and MEX text products because lines for wind direction and speed will be added for the four sites listed above.

The tables below list the communication identifiers for all products affected by these changes.

Table 1: Communication identifiers for the GFS-based MOS public text products affected by the changes

WMO HEADING (SHORT RANGE)	AWIPS ID	WMO HEADING (EXTENDED RANGE)	AWIPS ID
FOPA20 KWNO	MAVPA0	FEPA20 KWNO	MEXPA0
FOUS21 KWNO	MAVNE1	FEUS21 KWNO	MEXNE1
FOUS22 KWNO	MAVSE1	FEUS22 KWNO	MEXSE1
FOUS23 KWNO	MAVNC1	FEUS23 KWNO	MEXNC1
FOUS24 KWNO	MAVSC1	FEUS24 KWNO	MEXSC1
FOUS25 KWNO	MAVRM1	FEUS25 KWNO	MEXRM1
FOUS26 KWNO	MAVWC0	FEUS26 KWNO	MEXWC0

Table 2: Communication identifiers for the affected Air Force MOS text products

WMO HEADING (SHORT RANGE)	AWIPS ID	WMO HEADING (EXTENDED RANGE)	AWIPS ID
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FOUS30 KWNO MAVF26 FEUS30 KWNO MEXF26

Table 3. Communication identifiers for the GFS-based MOS BUFR products affected by the changes

WMO HEADING (SHORT RANGE)	WMO HEADING (EXTENDED RANGE)	REGION
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JSML30 KWNO	JSMT30 KWNO	PACIFIC REGION
JSML31 KWNO	JSMT31 KWNO	NORTHEAST CONUS
JSML32 KWNO	JSMT32 KWNO	SOUTHEAST CONUS
JSML33 KWNO	JSMT33 KWNO	NORTH CENTRAL CONUS
JSML34 KWNO	JSMT34 KWNO	SOUTH CENTRAL CONUS
JSML35 KWNO	JSMT35 KWNO	ROCKY MOUNTAIN CONUS
JSML36 KWNO	JSMT36 KWNO	WEST COAST CONUS

Table 4: Communication identifiers for the GFS-based LAMP public text product affected by the changes

WMO HEADING	AWIPS ID
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FOUS11 KWNO	LAVUSA

Table 5: Communication identifiers for the GFS-based LAMP BUFR products affected by the changes

WMO HEADING	REGION
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JSMF10 KWNO	PACIFIC REGION
JSMF11 KWNO	NORTHEAST CONUS
JSMF12 KWNO	SOUTHEAST CONUS
JSMF13 KWNO	NORTH CENTRAL CONUS
JSMF14 KWNO	SOUTH CENTRAL CONUS
JSMF15 KWNO	ROCKY MOUNTAIN CONUS
JSMF16 KWNO	WEST COAST CONUS

For questions regarding the update to the GFS MOS wind guidance and resulting changes to the MAV and MEX bulletins, contact:

Eric Engle
MDL/Silver Spring, Maryland
301-713-0023, Ext. 146
Eric.Engle@noaa.gov

For questions regarding the changes to LAMP guidance, contact:

Judy Ghirardelli
MDL/Silver Spring, Maryland
301-713-0056, Ext. 194
Judy.Ghirardelli@noaa.gov

Links to the 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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