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PNSWSH

Technical Implementation Notice 16-15 Amended
National Weather Service Headquarters Washington DC
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From: Tim McClung, Portfolio Manager
 NWS Office of Science and Technology Integration

Subject: Amended: Changes to North American Mesoscale Model (NAM)-based
Model Output Statistics (MOS) Guidance: Effective August 16, 2016

Amended to change the implementation date from Tuesday, July 26, 2016, to
Tuesday, August 16, 2016, and to change the locations from which NAM MOS
forecasts will be available for public download.

On or about Tuesday, August 16, 2016, beginning with the 1200 Coordinated
Universal Time (UTC) model run, the NWS Meteorological Development
Laboratory (MDL) will implement updates to the NAM-based MOS temperature
and wind guidance. These updates will include new forecast equations for
daytime maximum and nighttime minimum temperature, 2-m temperature and dew
point, and 10-m wind speed and direction. Equations are being updated for
both the warm and cool seasons. The new equations are based on dependent
data samples that include a significant amount of operational and
reforecast data from the latest version of the model (NAM v3.1.0)
implemented in August 2014. Therefore, these equations should be better
tuned to current operational NAM bias characteristics.

Due to changes in reporting frequencies, sufficient data were not
available for development of new temperature and/or wind guidance at a
number of sites currently included in the NAM MOS system. Conversely, it
was possible to develop guidance at a number of sites not currently having
forecasts for these elements. A complete listing of these changes for
both the warm and cool seasons may be found on the MDL website at:

http://www.weather.gov/mdl/mos_changelog_namchangelist2016

The upcoming changes will slightly alter the format of the NAM MOS
alphanumeric (MET/MME) and Binary Universal Form for the Representation of
meteorological data (BUFR) messages because lines will be added or removed
in response to the changes in availability of forecast guidance listed in
the above tables. No other changes to the format of the NAM MOS messages
are expected with this update.

Before the implementation date, users may download parallel NAM MOS data from NOAA's Operational Model Archive and Distribution System (NOMADS) at the following link:

<http://para.nomads.ncep.noaa.gov/pub/data/nccf/noaaport/nam>

Parallel BUFR products will reside in: metbufr.xtrn.nam_mos_XX, NAM CONUS/OCONUS text products (MET) in: nammet.tran.nam_mos_XX, and NAM marine products (MME) in: nammme.tran.nam_mos_XX, where XX denotes the particular forecast cycle (00 for 0000 UTC, and 12 for 1200 UTC).

With this implementation, NCEP Central Operations (NCO) also will be changing the address of servers from which the operational NAM MOS forecasts will be available for public download. Specifically, for the NAM MOS CONUS/OCONUS products (MET), the current location:

<http://tgftp.nws.noaa.gov/SL.us008001/DF.anf/DC.mos/DS.met/RD.YYYYMMDD/cy.XX.txt>

will change to:

http://ftpprd.ncep.noaa.gov/data/nccf/com/nam/prod/nam_mos.YYYYMMDD/mdl_nammet.tXXz,

and for the NAM MOS Marine products (MME), the current server location:

<http://tgftp.nws.noaa.gov/SL.us008001/DF.anf/DC.mos/DS.mme/RD.YYYYMMDD/cy.XX.txt>

will change to:

http://ftpprd.ncep.noaa.gov/data/nccf/com/nam/prod/nam_mos.YYYYMMDD/mdl_nammme.tXXz,

where XX represents the particular forecast cycle (either 00 or 12 UTC), and YYYYMMDD the 8-digit year, month and date of the NAM MOS forecasts requested. Users who rely upon these servers for dissemination of these data should make preparations to ingest data from the new locations.

The following public weather alphanumeric messages and BUFR products are affected by the above changes:

Table 1: Communication identifiers for the NAM-based MOS public weather text products.

WMO Heading	AWIPS ID
FOAK47 KWNO	METAJK
FOAK48 KWNO	METAFC
FOAK49 KWNO	METAFG
FOPA40 KWNO	METPA0
FOUS44 KWNO	METNE1
FOUS45 KWNO	METSE1
FOUS46 KWNO	METNC1

FOUS47 KWNO	METSC1
FOUS48 KWNO	METRM1
FOUS49 KWNO	METWC1

Table 2: Communication identifiers for the NAM-based MOS marine text products.

WMO Heading	AWIPS ID
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FQAK47 KWNO	MMEAK1
FQPA40 KWNO	MMEHI1
FQUS41 KWNO	MMENE1
FQUS42 KWNO	MMESE1
FQUS43 KWNO	MMEGL1
FQUS44 KWNO	MMEGF1
FQUS45 KWNO	MMENW1
FQUS46 KWNO	MMESW1

Table 3: Communication identifiers for the NAM-based MOS BUFR messages.

WMO Heading:
JSML10 KWNO
JSML11 KWNO
JSML12 KWNO
JSML13 KWNO
JSML14 KWNO
JSML15 KWNO
JSML16 KWNO
JSML17 KWNO

For questions regarding the updates to the NAM MOS guidance and associated message changes, please contact:

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Links to the MOS products and descriptions are online 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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