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Technical Implementation Notice 10-50, Amended
National Weather Service Headquarters Washington DC
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From: Timothy McClung
 Chief, Science Plans Branch
 Office of Science and Technology

Subject: Amended: Changes to the North American Ensemble
 Forecasting System (NAEFS): Effective March 1, 2011

Amended to reschedule this implementation for March 1, 2011.
Also amended to remove the inclusion of the global ensemble
system run by the Fleet Numerical Meteorology and Oceanography
Center in the NAEFS system.

Effective Tuesday, March 1, 2011, beginning with the 1200
Coordinated Universal Time (UTC) run, the National Centers for
Environmental Prediction (NCEP) will make modifications to the
North American Ensemble Forecasting System (NAEFS). The current
NAEFS output is derived by combining the NCEP Global Ensemble
Forecast System (GEFS) and the Canadian Meteorological Center's
GEFS.

The NAEFS output is disseminated only via the NCEP
server. Products are available for http and ftp download at the
following URLs:

<http://www.ftp.ncep.noaa.gov/data/nccf/com/gens/prod/>
and
<ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/gens/prod/>

NCEP will be modifying the output available from the NCEP GEFS,
CMC GEFS and the NAEFS. These modifications include:

Adding the following 13 bias-corrected elements to the NCEP
GEFS and NAEFS output for all probabilistic products:

- 10 hPa(mb) geopotential height
- 10 hPa(mb) temperature
- 10 hPa(mb) u component of wind
- 10 hPa(mb) v component of wind
- 50 hPa(mb) geopotential height
- 50 hPa(mb) temperature

50 hPa(mb) u component of wind
50 hPa(mb) v component of wind
100 hPa(mb) geopotential height
100 hPa(mb) temperature
100 hPa(mb) u component of wind
100 hPa(mb) v component of wind
850 hPa(mb) vertical velocity

The directory location of the raw CMC GEFS data will be changed. Starting on March 1, the GRIB2 output for the individual member and ensemble means and spreads will be online in the following directories, where YYYYMMDD is the date and CC is the model cycle:

<http://www.ftp.ncep.noaa.gov/data/nccf/com/gens/prod/cmce.YYYYMMDD/CC/pgrb2a>
and
<ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/gens/prod/cmce.YYYYMMDD/CC/pgrb2a/>

In addition, the following 28 variables will be added to the CMC output:

10 hPa(mb) geopotential height
10 hPa(mb) temperature
10 hPa(mb) relative humidity
10 hPa(mb) u component of wind
10 hPa(mb) v component of wind
50 hPa(mb) geopotential height
50 hPa(mb) temperature
50 hPa(mb) relative humidity
50 hPa(mb) u component of wind
50 hPa(mb) v component of wind
100 hPa(mb) geopotential height
100 hPa(mb) temperature
100 hPa(mb) relative humidity
100 hPa(mb) u component of wind
100 hPa(mb) v component of wind
850 hPa(mb) vertical velocity
Convective inhibition (CIN 180-0 hPa)
Latent heat net flux
Sensible heat net flux
Downward shortwave radiation flux at surface
Downward longwave radiation flux at surface
Upward shortwave radiation flux at surface
Upward longwave radiation flux at surface
Upward longwave radiation flux at top of atmosphere
Volumetric soil moisture (0-10cm)
Water equivalent of accumulated snow depth
Snow depth (surface)
Soil temperature (0-10cm down)

Data delivery timing is not expected to be impacted by the implementation. There will only be a minor increase in the data volumes of existing files due to the addition of new variables.

A sample dataset for this NAEFS implementation is available at:

ftp://ftp.emc.ncep.noaa.gov/gc_wmb/yzhu/1q2011

Specific information regarding the NAEFS and scientific implementation is online at:

http://www.emc.ncep.noaa.gov/gmb/yzhu/html/imp/201012_imp.html

By early December, once the model is running in parallel on the NCEP Central Computing System, a consistent parallel feed of data will be available on the NCEP server. The parallel data will be available via the following URLs:

<http://www.ftp.ncep.noaa.gov/data/nccf/com/gens/para>
and
<ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/gens/para>

NCEP urges all users to ensure their decoders can handle changes in content order, changes in the scaling factor component within the product definition section (PDS) of the GRIB files, and volume changes. These elements may change with future NCEP model implementations. NCEP will make every attempt to alert users to these changes before implementation.

For questions regarding these changes, please contact:

Yuejian Zhu
NCEP/Global Modeling Branch
Camp Springs , Maryland
301-763-8000 X 7052
Yuejian.Zhu@noaa.gov

For questions regarding the dataflow aspects of these datasets, please contact:

Rebecca Cosgrove
NCEP/NCO Dataflow Team
Camp Springs , Maryland 20746
301-763-8000 X 7198
ncep.pmb.dataflow@noaa.gov

National Technical Implementation Notices are online at:

<http://www.nws.noaa.gov/os/notif.htm>

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