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PNSWSH

Service Change Notice 22-40 Updated
National Weather Service Headquarters Silver Spring MD
230 PM EDT Mon May 9 2022

To: Subscribers:
 -NOAA Weather Wire Service
 -Emergency Managers Weather Information Network
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 Other NWS Partners, Users and Employees

From: Mike Farrar, Director
 National Centers for Environmental Prediction

Subject: Updated: Migration and Go-Live of NCEP Model Production Suite to
New Version of WCOSS: Effective June 28, 2022, with Two Test Periods
Scheduled June 1 and June 14, 2022

Updated to fix the incorrect go-live date. Go-live is scheduled for
Tuesday, June 28, 2022.

On or about Tuesday, June 28, 2022, starting with the 1200 Coordinated
Universal Time (UTC) cycle, the National Centers for Environmental
Prediction (NCEP) will move all models and post-processing in the
production suite from the current Weather and Climate Operational
Supercomputing System (WCOSS) to the second version of WCOSS. The new
version of WCOSS encompasses new hardware in new physical locations, with
expanded calculation capacity for future model upgrades, as advertised in
this press release: [https://www.noaa.gov/media-release/us-to-triple-
operational-weather-and-climate-supercomputing-capacity](https://www.noaa.gov/media-release/us-to-triple-operational-weather-and-climate-supercomputing-capacity). With the
migration, there will be some changes on the NOAA Operational Model
Archive and Distribution System (NOMADS) and FTPPRD.

Important Note: There will be two 24-hour tests where the new WCOSS will
be running as production, during which time the changes noted below will
go live. After the 24-hour test completes, the changes detailed below
will revert back to the current status until the next test or the go-
live. These tests are scheduled for June 1 and June 14, 2022.

Full List of Changes:

Please see this link for the full list of changes, including any known
timing changes:

https://www.nco.ncep.noaa.gov/pmb/changes/docs/wcoss2_transition.php

Users should check back on this list regularly.

Models Being Moved:

Some models will be moving to a new directory structure with the migration to the new WCOSS. These changes will take place on both NOMADS and FTPPRD under the top-level "com" directory.

<https://nomads.ncep.noaa.gov/pub/data/nccf/com/>
<https://ftpprd.ncep.noaa.gov/data/nccf/com/>
<ftp://ftp.ncep.noaa.gov/pub/data/nccf/com>

Some of the highlights include the following, but see the link above for the full list.

Where YYYY is year, MM is month, and DD is day.

The Binary Universal Form for the Representation (BUFR) Observations processed within the Global Forecast System (GFS), Global Data Assimilation System (GDAS), North American Mesoscale Model (NAM), Rapid Refresh (RAP) and Real-Time Mesoscale Analysis (RTMA) are moving to a new "obsproc" directory. Details on which filenames are affected are in the page linked below.

-> obsproc/{ENV}/{model}.YYYYMMDD

Where ENV is both prod and v1.0, and model is one of gdas, gfs, nam, rap, rap_e, rap_p, rtma2p5_ru or rtma_ru.

UltraViolet Index (UVI):

hourly/prod/uv.YYYYMMDD -> uvi/{ENV}/uvi.YYYYMMDD

Where ENV is both prod and v1.1.

NAM Model Output Statistics (MOS):

nam/prod/nam_mos.YYYYMMDD -> nam_mos/{ENV}/nam_mos.YYYYMMDD

Where ENV is both prod and v3.5.

GFS Model Output Statistics (MOS):

gfs/prod/gfsmos.YYYYMMDD -> gfs_mos/{ENV}/gfs_mos.YYYYMMDD

Where ENV is both prod and v5.3

High-Resolution Ensemble Forecast (HREF):

hiresw/prod/href.YYYYMMDD -> href/{ENV}/href.YYYYMMDD

Where ENV is both prod and v3.1.

Climate Forecast System (CFS):

Elimination of redundant cfs/ directory

cfs/prod/cfs/cfs.YYYYMMDD -> cfs/{ENV}/cfs.YYYYMMDD

Where ENV is both prod and v2.3.

Fleet Numerical Meteorology and Oceanography Center (FNMOC) Wave:

fnmoc/prod/fnmoc_wave.YYYYMMDD -> fnmoc_wave/{ENV}/fnmoc_wave.YYYYMMDD

Where ENV is both prod and v1.1.

Great Lakes Operational Forecast System (GLOFS):

nos/prod/glofs.YYYYMMDD -> glofs/{ENV}/glofs.YYYYMMDD

Where ENV is both prod and v2.1.

(Near) Sea Surface Temperature (SST/NSST):
gfs/prod/sst.YYYYMMDD -> nsst/{ENV}/nsst.YYYYMMDD
Where ENV is both prod and v1.2.

Air Quality Model (AQM):
aqm/prod/aqm.YYYYMMDD -> aqm/{ENV}/cs.YYYYMMDD
aqm/prod/AK.YYYYMMDD -> aqm/{ENV}/ak.YYYYMMDD
aqm/prod/HI.YYYYMMDD -> aqm/{ENV}/hi.YYYYMMDD
Where ENV is both prod and v6.1.

Test Data:

Users can see and test data from the new WCOSS suite at the following link:

<https://para-nomads-cprk.ncep.noaa.gov/pub/data/nccf/com/>

Please note that only 24hr of data will be kept on disk at this location. As well, this data will not update during the two 24-hour tests currently scheduled for June 1 and June 14, 2022.

NCEP encourages all users to ensure their decoders are flexible and are able to adequately handle changes in content order, parameter fields changing order, changes in the scaling factor component within the Product Definition Section (PDS) of the gridded binary (GRIB) files and also any volume changes which may be forthcoming. These elements may change with future NCEP model implementations. NCEP will make every attempt to alert users to these changes prior to any implementation.

Users should sign up for direct communication of ongoing events related to NOMADS/FTPFRD and the modeling suite through this listserv:

<https://www.lstsrv.ncep.noaa.gov/mailman/listinfo/ncep.list.nomads-ftpfrd>

Questions, comments or requests regarding this change should be directed to the contact below:

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We will review any feedback we receive, and make notifications of additional information as needed.

National Service Change Notices are online at:

<https://www.weather.gov/notification/>

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