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
- NOAAPORT
Other NWS Partners, Users and Employees

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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 UTC cycle, the National Center 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. With the migration, there will be some changes on 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/

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 GFS, GDAS, NAM, RAP, and 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

North American Model (NAM) Model Output Statistics (MOS)
nam/prod/nam_mos.YYYYMMDD -> nam_mos/{ENV}/nam_mos.YYYYMMDD
   Where ENV is both prod and v3.5

Global Forecast System (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)
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 24hr 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 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/FTPPRD and the modeling suite through this listserv:  
https://www.lstsrv.ncep.noaa.gov/mailman/listinfo/ncep.list.nomads-ftpprd

Questions, comments or requests regarding this change should be directed  
to the contacts below.

Carissa Klemmer, Chief  
NCO Implementation and Data Services Branch  
idp.feedback@noaa.gov

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

National Public Information Statements are online at:  
https://www.weather.gov/notification/