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. 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/

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/YYYYYMDDD -> cfs/{ENV}/cfs/YYYYYMDDD
   Where ENV is both prod and v2.3

Fleet Numerical Meteorology and Oceanography Center (FMOC) Wave
fnmoc/prod/fnmoc_wave.YYYYYMDDD -> fnmoc_wave/{ENV}/fnmoc_wave.YYYYYMDDD
   Where ENV is both prod and v1.1

Great Lakes Operational Forecast System (GLOFS)
nos/prod/glofs.YYYYYMDDD -> glofs/{ENV}/glofs.YYYYYMDDD
   Where ENV is both prod and v2.1

(Near) Sea Surface Temperature (SST/NSST)
gfs/prod/sst.YYYYYMDDD -> nsst/{ENV}/nsst.YYYYYMDDD
   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
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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/

NNNN