

June 6, 2014

MEMORANDUM FOR: Distribution Email

FROM: Michelle Mainelli  
NCEP Central Operations

SUBJECT: UPDATED: Scheduled Operational Changes and Upgrades

The following accelerated items were implemented this past week:

RFC# 141: A Firewall update was made for the MADIS application running in development on the Integrated Dissemination Program (IDP) System in College Park to the distribution nodes to accept LDM feeds from the MADIS processing nodes.

Completed at 12Z on 5 June 2014

-----

The following will be implemented on June 9, 2014

RFC #142: Around 14Z, the Climate Prediction Center's (CPC) Verification Web Tool will be updated to a new version, which incorporates several bug fixes.

RFC #143: Around 17Z, the wgrib version on the CPC Compute Farm will be updated to version 1.8.1.2a allowing for more accurate manipulation of ECMWF forecast data.

-----

The following will be implemented on June 10, 2014

RFC #137 (Rescheduled): Around 11Z, the LSF bsub script will be updated to collect logs during job submission. This will assist with investigation of multiple on-going operational issues.

RFC #138 (Rescheduled): Around 11Z, the WCOSS LSF queues prod\_serv and prod\_serv2 will be temporarily modified to add an 8-second delay to the queuing. This will force LSF to spread multiple job submissions across multiple nodes, rather than the current behavior of consolidating jobs on few nodes.

RFC #107 (Rescheduled): Around 12Z, customized GFS products for the Joint Typhoon Warning Center are no longer needed and will be removed from dissemination.

RFC # 144: Around 12Z, The LDM software will be updated to v1.68.4. This version, running on vm-lnx-ncosrv, will be modified to begin saving NALARM alert messages to the sdm4 and sdm5 directories on the NCWCP NetApp.

RFC #145: Pending final approval from the NCEP Director, around 12Z, The DBNet software will be updated to v1.19.1. This version will allow the new NetCDF Hurricane Weather Research and Forecasting (HWRF) model auxiliary history files to be sent to the FTPPRD systems.

RFC #146: Pending final approval from the NCEP Director, around 12Z, The HWRF model will be upgraded to v8.0.4. This upgrade includes increased vertical resolution, larger next domains, a single Atlantic Ocean domain, an updated WRF core, an updated Princeton Ocean Model, and updated GSI.

RFC #147: Around 12Z, the NOAA's Operational Model Archive and Distribution System (NOMADS) will be updated to v2.7.0. This version will allow the use of grib filter for the Climate Forecast System.

RFC #148: Around 13Z, one of the programs used for the NCEP verification scores, qcairsum.f, will be updated to v1.0.1. This version will increase the allowed number of unique carrier observations from 2500 to 5000 and addresses the array limit issue that occurred in operations on 2 June 2014.

-----

The following will be implemented on June 11, 2014

RFC #139 (Rescheduled): Around 12Z, NCO will be moving the NAM jobs from the p1 fileset to the d1 fileset to relieve the I/O on p1.

RFC #150: Around 12Z, the High-Resolution Window model will be upgraded to v6.0.7. This version includes the new WRF-ARW, it will replace the WRF-NMM with WRF-NMMB, higher resolution, 06Z and 18Z output for Alaska, and merges the old east and west CONUS domains into a single CONUS domain, which runs at 00Z and 12Z daily.

RFC #151: Around 12Z, the Model Analyses and Guidance (MAG) website will be upgrade to v3.4.0. The version includes the additional Alaska domain the HiResW model and replaces the former east and west CONUS domains with a single domain, which runs at 00Z and 12Z daily.

RFC #152: Around 16Z, a daily cron script will be enabled to pull the latest or updated (white-list approved) packages via rsync from (white-list EPEL servers) to be processed in their respective channels.

RFC #153: Around 18Z, IBM will update the DM-Multipath Configuration to v6.4. IBM will re-deploy the NSD servers on the WCOSS systems per the IBM Intelligent Cluster teams new best practice guidelines for deploying IBM DCS3700 storage appliances in a LINUX-Alua DM-Multipath environment.

-----

The following will be implemented on June 12, 2014

RFC #154: Pending NCEP Director approval, around 12Z, the Geophysical Fluid Dynamics Lab (GFDL) model will be upgraded to v11.0.3. This version includes increased horizontal resolution of the inner nest, upgraded physics, upgraded Princeton Ocean Model with a unified Atlantic basin, and refined vortex initialization.

RFC #155: Around 12Z, the DBNet software will be updated to v1.19.2. This version of DBNet software on WCOSS will be modified to add five new push queues to the AWIPS II NTBN testbed system. NCO has observed that model data arrival is impacted during busy dissemination times. By adding these push queues, the timeliness of the data arrival will improve.

---- OPERATIONAL ANNOUNCEMENTS ----

1. The WCOSS Implementation Standards are available at <http://www.nco.ncep.noaa.gov/pmb/docs/>. Please adhere to these standards when submitting changes for the WCOSS.
2. Upcoming major changes to NCEP's production suite and details on any product or timing changes associated with upcoming implementations can be viewed at the following website:

<http://www.nco.ncep.noaa.gov/pmb/changes/>

Test data for major changes should be available six weeks prior to implementation. Anyone wishing to receive formal notice of the final pre-implementation testing and the opportunity to provide feedback on the proposed changes can subscribe to the Model Evaluation mailing list via:

<https://lstsrv.ncep.noaa.gov/mailman/listinfo/ncep.list.modevalinfo>

3. Maintenance of subscriptions to the Scheduled Operational Changes and Upgrades mailing list can be performed via the following website:

<https://lstsrv.ncep.noaa.gov/mailman/listinfo/ncep.list.rfcmemo>