

October 29, 2015

MEMORANDUM FOR: Distribution Email

FROM: Christine Caruso Magee  
Configuration Manager, NCEP Central Operations

SUBJECT: Scheduled Operational Changes and Upgrades for  
CPC, OPC, and WPC

The following accelerated items were implemented this past week:

RFC #482 – Updated script 'make\_opc\_sref\_ens.pl' to account for the SREF implementation that occurred on October 21 and its associated source file names changing. This script creates gempak files with limited SREF parameters needed by OPC operations. Implemented on October 22 at 1930Z. (OPC)

-----

The following will be implemented the week of November 02, 2015:

RFC #483 - Update the Vibrio webpage to add 'first' and 'last' buttons to image animations. To be implemented on November 2 at 1130Z. (OPC)

RFC #484 - For the PMDMRD product (Prognostic Map Discussion, 6-10 day forecast), remove logic which prevents over-writing of previous versions with the same date; add version number & documentation. To be implemented on November 2 at 1200Z. (CPC)

RFC #485 - Add satellite enhancement tables to the Netapp in \$opsdir/tables/all\_hpc/luts. Also, update the 'enhance.tbl' to include these additional enhancements. This supports WPC's Metwatch function. To be implemented on November 2 at 1200Z. (WPC)

RFC #486 – Modify the Auto-forecast VGF production to remove extra contour generation from the 'above normal' category. To be implemented on November 2 at 1200Z. (CPC)

RFC #487 - Clean up the SREF entries in NMAP. Several data options are no longer available due to the October 21 upgrade and a few others are no longer used. To be implemented on November 2 at 1200Z. (WPC)

RFC #488 - Update restore files for NMAP to allow forecasters to view the upgrade to Extra-Tropical Storm Surge (ETSS) v2.1. Add total water level

variable to 'mod\_res.tbl' and 'datatype.tbl' on NCOSRV. To be implemented on November 3 at 1500Z. (OPC)

RFC #489 - Implement new script 'update\_bawx.csh' on the Compute Farm that will update the Basic Weather Charts on the website when the new version of the NDFD becomes available. This is in response to a user's complaint of old NDFD weather on the chart. To be implemented on November 3 at 1200Z. (WPC)

RFC #490 - Remove the rsync of RCDAS data from CPC's work1 server to the Compute Farm. This dataset is now obsolete and no longer needs to be copied to the Compute Farm. To be implemented on November 3 at 2100Z. (CPC)

RFC #491 - WK34 Production Upgrade - Implement updates to 'oceanmask.vgf'. Modify the config file for a new process owner. Add new text on maps. Change text formatting. To be implemented on November 4 at 1800Z. (CPC)

-----  
The following will be implemented the week of November 16, 2015:

RFC #492 – Metwatch GUI – Implement changes to WPC's MPD (Mesoscale Precipitation Discussion) GUI to allow inclusion of satellite imagery in WPC MPDs for CONUS West Coast Atmospheric River events. To be implemented on November 16 at 1200Z. (WPC)

-----  
The following CPC OPC WPC RFC(s) are in progress:

RFC #480 – Turn on and modify Compute Farm Winter Weather scripts. The first set of scripts call RAP13 data and then processes ptype and frozen precip estimation used to verify Day 4-7 WPC snow/ice outlooks. The second set of scripts accesses NOHRSC (National Operational Hydrologic Remote Sensing Center) snow/ice data which is used for WWE (Winter Weather Experiment) verification. Modification to the scripts entails changing threshold values and increasing the temporal resolution of the data pull. Implementation began on October 26 at 1600Z and should be completed by 2200Z on November 6. (WPC)

RFC #481 – Add versioning and additional documentation to several Long Range Forecast subprocesses. To be implemented on October 30 at 1200Z. (CPC)

-----  
The following NCO RFCs to be implemented the week of November 02, 2015 may affect CPC, OPC, and/or WPC:

RFC #1320 – Himawari v1.2 – Himawari is to be declared operational on IDP effective November 3 at 1200Z. This is pending approval by the NCEP Director (briefing to occur on October 30).

RFC #1393 – ETSS v2.1.0 – Major upgrade for the ExtraTropical Storm Surge model. See the TIN at <http://www.nws.noaa.gov/os/notification/tin15-39etssaaa.htm> for details on the changes included in this upgrade. To be implemented on November 3 at 1200Z.

RFC #1421 – NCOSRV Dataflow v2.11.0 - Modify the LDM software to begin pulling Central Region's Superblend QPF data. This is in support of WPC Winter Weather Project validation. To be implemented on November 2 at 1200Z.

RFC #1422 – Create new directories on RZDM to allow GSD to push HRRRE data to them, in support of WPC who requested the data. To be implemented on November 2 at 1200Z.

RFC #1424 – NCOSRV Dataflow v2.13.0, WCOSS Dataflow v1.72.0 - The DBNet software on NCOSRV and WCOSS is being modified to begin sending parallel versions of the EKDMOS, GFS MOS, RTMA, URMA, and the new National Model Blend (NMB) to the parallel NOMADS site in preparation for the upcoming NMB evaluation. To be implemented on November 2 at 1300Z.

RFC #1425 – NCOSRV Dataflow v2.12.0 - Pull in GSD's HRRR ensemble (HRRRE) data using the Dataflow Mirror package. This is in support of the WPC Winter Weather Project. To be implemented on November 2 at 1300Z.

RFC #1430 – WCOSS Dataflow v1.71.2 - Modify the LDM software on WCOSS to route all the P3 Tail Doppler Radar reports to the data decoders. It was discovered by EMC that only 1 out of a possible 3 were being routed into the decoders. This is in support of the HWRF model ingest. To be implemented on November 3 at 1300Z.

RFC #1435 – GPFS v4.1 (on Tide) - Enhance the existing WCOSS - Tide phase-1 and phase-2 storage solution by adding metadata-only GPFS NSD servers and changing the existing data-and-metadata NSD to data-only servers. Existing data will be "restriped" to separate the data and metadata. To be implemented beginning November 4 at 1200Z and should be completed by December 4. NCO/IDSB will send notification to users via the WCOSS-announce mailing list should planned work be impactful to users.

RFC #1437 – Install the 'grib\_api' on all CPC systems to support the use of the Python 'pygrib' module, as well as 'grib\_api-devel' and 'openjpeg-devel', on CPC servers. CPC will use 'pygrib' to read GRIB files using Python. To be implemented on November 4 at 1300Z.

-----  
The following NCO RFC(s) are in progress and may affect the local Centers:

None

-----  
The following NCO RFC(s), which may affect the local Centers, was approved with an implementation date TBD:

RFC #1357 – RTOFS global v1.1.0 – Major upgrade of the Global RTOFS model. See the TIN at: <http://www.nws.noaa.gov/os/notification/tin15-36global-rtofsaaa.htm> for details. This was advertised as having an October 6 implementation date but this implementation is being postponed due to a delay in the Navy's HYCOM model upgrade. Once the HYCOM upgrade is implemented, the Global RTOFS will be scheduled for implementation. Notification will be given in advance so users may prepare for any changes which may affect them. This upgrade of the Global RTOFS was approved by the NCEP Director.

-----  
The following NCO RFC(s), which may affect the local Centers, are on hold:

RFC #1370 – GEFS v11.0.3 – Major GEFS upgrade. See the TIN at: <http://www.nws.noaa.gov/os/notification/tin15-43gefsaab.htm> for specifics. This was scheduled for an October 14 implementation and was conditionally approved at the October 8 NCO CCB, but it was not approved by the NCEP Director at the October 9 briefing, so it is on hold until a future date.

-----  
Please note that security-related RFCs are never listed in the RFC memo.

-----  
---- OPERATIONAL ANNOUNCEMENTS ----

1. The CPC/OPC/WPC Configuration Management documents are available at <https://sites.google.com/a/noaa.gov/nws-ncep-nco-cm/>.

Please review these documents if you have questions prior to submitting changes for CPC/OPC/WPC configurable items.