

February 12, 2016

MEMORANDUM FOR: Distribution Email

FROM: Chris Caruso Magee
Configuration Manager, NCEP Central Operations

SUBJECT: Scheduled Operational Changes and Upgrades

NCO College Park

The following accelerated items were implemented last week:

RFC #1701 – WCOSS (Cray) - IBM modified a setting on the DVS/GPFS to set it to zero and disable the function that addresses stale file handles. Implemented on Luna on February 9 at 0000Z. Surge to be done at a later date.

RFC #1702 – WCOSS (Cray) - IBM installed a hot fix for LSF for the sbatchd daemon that runs on the service nodes. The intent of this hot fix is to alleviate the scheduling issues that result in jobs going into the PSUSP state. Implemented on Luna on February 10 at 1600Z. Surge to be done at a later date.

RFC #1703 - Modified the WCOSS DBNet tables to send the HIRESW parallel off the Cray. Implemented on February 11 at 1400Z.

The following will be implemented the week of February 15, 2016:

RFC #1704 – bacio v2.0.2 - This version v2.0.2 improves the fast_byteswap utility, which significantly speeds up GFS I/O operations. The next GFS implementation (targeted for FY16Q3) will be using this update, as will the GSI and ncep_post. To be implemented on February 16 at 1200Z.

RFC #1705 – NGAC v1.0.0 - The NGAC production files were being alerted with "_PARA" at the end. This issue needs to be fixed to allow the parallel NGAC output to be alerted for the next upgrade. NGAC production alerts will no longer have "_PARA" tacked on at the end. To be implemented on February 16 at 1200Z.

RFC #1706 – NAWIPS v7.3.0 – Implement NAWIPS upgrade, which includes the enabling of the lightning decoder to process encrypted data, and a change to GDGRIB2 to allow bulk processing of GEMPAK parameters, along with numerous other table changes, zone/map changes, etc. To be implemented on February 16 at 1200Z.

RFC #1707 - Upgrade the memory on NCO's satellite server sat01 from 12GB to 48GB, to alleviate performance issues on the system. To be implemented on February 16 at 1200Z.

RFC #1708 - NCODF Dataflow v3.0.0 - The DBNet software on ncodf9/10 is being modified to improve the timeliness of processing DBNet alerts from the MRMS and Himawari-8 applications. This change will also be made to the dbnet3/4 gateway servers for non-switched tgftp data. To be implemented beginning February 16 at 1300Z and should be completed by 1800Z on February 19.

RFC #1709 - NCODF Dataflow v3.1.0 - The DBNet software running on the ncodf9/10 systems is being configured to enable MADIS IDP to send WMOID headed products to the NWSTG. To be implemented on February 16 at 1300Z.

RFC #1710 - Set up feeds from WCOSS and NCOSRV to Boulder, to support Boulder's NOMADS and ftpprd system setup for IDP. To be implemented beginning February 16 at 1300Z and should be completed by 2100Z on February 19.

RFC #1712 – Make a change for SWPC to allow for transfer of DSCOVN satellite data to support solar forecasts. To be implemented on February 16 at 1400Z.

RFC #1713 – Make a change to allow CPC to upload CFSR data to the Centre for Environmental Data Archival (CEDA), which is part of the British Atmospheric Data Centre (BADC). The reanalysis user community prefers to use data on model levels rather than standard pressure levels. The CFSR model level data is not conveniently available anywhere. BADC/CEDA has agreed to house this data set. To be implemented on February 16 at 1400Z.

RFC #1714 - Allow NCO/IDSB's Dataflow Team to access the bridge server service accounts, used for transferring data between Silver Spring and College Park. To be implemented on February 16 at 1500Z.

RFC #1715 - nowCOAST v5.0.1.2 - Install ESRI ArcGIS Server Hotfixes and Minor Changes to NOAA's nowCOAST GIS Web Mapping Portal. To be implemented on February 16 at 1900Z.

RFC #1716 – NLETS v1.0.5 - The IDP NLETS system replaces a similar system that has been hosted at the Telecommunications Gateway in Silver Spring. The IDP NLETS system provides NWS forecasts, warnings, and reports to emergency responders, public safety, and law enforcement personnel via the National Law Enforcement Telecommunications System. To be implemented on February 17 at 1200Z.

The following items are in progress:

RFC #1679 – DDN GPFS v4.1.0.8 - Installed a software patch on the Cray DDN servers to address long waiters from which recovery could only occur by rebooting the service nodes. Implemented on Luna on January 28 at 1500Z; will be implemented on Surge the week of February 15.

RFC #1681 – LSF v9.1.3 - Installed a fix to LSF to mitigate the long wait times that are being experienced on Luna and Surge when jobs are submitted. Implemented on Luna on January 29 at 1500Z; backed out on Luna on February 4 because it might have been causing problems on the system. Will be re-implemented on Luna at a date TBD once the problems have been resolved. Will be implemented on Surge after successful implementation on Luna.

RFC #1692 – WCOSS Dataflow – Modified the DBNet software on WCOSS to handle the alert creation process from the Cray systems Luna and Surge. This was implemented on the backup WCOSS (Tide) on February 4 at 1545Z. It will be implemented on WCOSS (Gyre) the week of February 15 after the WCOSS production switch occurs.

RFC #1699 – Move the MAG testing environment off the production volume. This will allow the MAG team to freely develop, implement, and test code without disrupting production applications. Was to be implemented on February 11 at 1300Z; additional coordination with NCO/IWSB needs to be done in order to complete this implementation. New implementation date is TBD.

RFC #1700 - Configure NIDS sites in College Park to use 8 MySQL read servers in a load balanced configuration, using the Citrix load balancer's native MySQL load balancing capability. This will increase the ability of NIDS sites hosted in College Park to handle periods of high load. Was to be implemented on February 11 at 1500Z; further coordination needs to be done with NIDS and NCO's Network team, so this has been postponed until February 17.

The following NCO RFCs were 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 was 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.

NCO Silver Spring – NWSTG

The following accelerated items were implemented this past week:

None

The following will be implemented the week of February 15, 2016:

None

The following items are in progress:

None

NCO Silver Spring – One NWSnet (OPSnet)

The following accelerated items were implemented this past week:

RFC #4414 – For the National Logistics Supply Center (NLSC)/National Reconditioning Center (NRC), activated the Verizon 1xDS3 WAN and migrated all service from interim 4xT1 services. Implemented on February 11 at 1500Z.

The following will be implemented the week of February 15, 2016:

RFC #4413 – For WFO OTX (Spokane), migrate the existing Alternate Transport Service (ATP) to new provider NoaNet (Northwest Open Access Network). To be implemented on February 16 at 1500Z.

The following items are in progress:

None

NCO Kansas City

The following accelerated items were implemented this past week:

None

The following will be implemented the week of February 15, 2016

RFC #1711 – Add NIDS Content Management System upload destinations in rsync for WFOs AJK (Juneau), AFC (Anchorage), and AFG (Fairbanks), and for Alaska Region Headquarters. To be implemented on February 16 at 1300Z.

RFC #1717 – AHPS v10.1.9 – Update AHPS to v10.1.9, which includes bug fixes and various enhancements. Specifics will be provided upon request. To be implemented on February 17 at 1300Z.

The following items are in progress:

None

NCO OCONUS

The following accelerated items were implemented this past week:

None

The following will be implemented the week of February 15, 2016:

None

The following items are in progress:

None

NCO Boulder

The following accelerated items were implemented this past week:

None

The following will be implemented the week of February 15, 2016:

None

The following items are in progress:

None

RFCs that are security-related are not included in the RFC Memo.

---- 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>