

June 26, 2015

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 this past week:

RFC #1037 – A hot spot had developed in the production RTGSSTHR analysis sea surface temperature. In order to mitigate this problem, a clean analysis was copied over from the RTGSST developer's area. If this was not fixed, the mesoscale analysis would have been negatively impacted. Implemented on June 23 at 2300Z.

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The following will be implemented the week of June 29, 2015:

RFC #1041 - Install Client FTP on operational NCODF Machines to support future outbound ftp ability, at the request of NCO/PMB/Dataflow. To be implemented on June 29 at 1330Z.

RFC #1042 – The Japanese Met Agency is changing the name of the GPCP GMS files it uploads to CPC. The FTP ingest table needs to be updated to enable uploading of the new file names. To be implemented on June 29 at 1400Z.

RFC #1044 – Provide access from EMC/MMAB linux boxes to a University of Maryland server in support of a 1-week wave modeling workshop being conducted in July at UM. To be implemented on June 29 at 1400Z.

RFC #1045 - Enable DNS caching on the NCOSRV machines via NSCD (Name Service Caching Daemon) in order to reduce DNS-related failures. To be implemented on June 30 at 1200Z.

RFC #1046 – WCOSS Dataflow v1.62.17 - Begin sending the RAP Quality Controlled (QC) non-restricted prepbufr files from WCOSS to NOMADS for http and ftp download by the NASA SPoRT (Short-term Prediction Research and Transition) Center in Huntsville, AL. To be implemented on June 30 at 1200Z.

RFC #1047 – WCOSS Dataflow v1.62.18 – Modify DBNet on WCOSS to begin sending the 0.25 degree GFS GRIB2 data to NHC. To be implemented on June 30 at 1200Z.

RFC #1048 – transfers\_wcross v1.0.9 – Increase the rsync timeout from 300 seconds to 600 seconds when transferring the CFS data from the production WCOSS to the development WCOSS, to minimize the chances of rsync timing out when deleting or scanning files. To be implemented on June 30 at 1200Z.

RFC #1049 - Migrate the MADIS standby VMs to a new MADIS-only virtual machine datastore. This will be done because of the improvement seen after trying a different datastore with the MADIS process. To be implemented on July 1 at 1200Z.

RFC #1050 - Apply updates and fixes to the web configurations for Nomads and FTPPRD per discussion with Dataflow. Updates will include indices with timestamps and file sizes and a few other fixes. To be implemented on July 2 at 1200Z.

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The following items are in process:

RFC #934 – Allow NHC/TSB to access a FNMOC website from the NHC operational subnets. This change may negatively impact others' ability to access the same FNMOC site via the Internet. Original implementation date was May 20 at 1400Z. Delays arose in FNMOC's confirming they're ready to do the work on their end. New implementation date is TBD.

RFC #950 – Make minor changes to 2 network routing protocols to facilitate the migration of OCONUS networks from OPSnet to NCEP. Implementation began on May 26 at 1600Z and is expected to be completed by June 30.

RFC #974 – Move NTWC from the regional WAN to the NWSnet WAN. Only office automation and non-operational traffic are moving. AWIPS and radar traffic are not being moved. A dual 1GB interconnect has been established to ensure reachability across the new network and the legacy network. Implementation began on June 8 at 0000Z and is expected to be completed on June 29.

RFC #975 – Upgrade the NIC drivers on all IDP blades. Implementation began on June 8 at 1100Z and was to have been completed by 2100Z on June 19. New completion date is June 26 at 2100Z.

RFC #977 - Upgrade the ncotsm02 server to RHEL6. This is required in order to install the latest IBM TSM software. Implementation began on June 8 at 1300Z and should be completed by 1900Z on June 29.

RFC #1005 – Move the Anchorage WFO from the regional WAN to the NWSnet WAN. Only office automation and non-operational traffic are moving. AWIPS and radar traffic are not being moved. A dual 1GB interconnect has been established to ensure reachability across the new network and the legacy network. Implementation began on June 15 at 0000Z and is expected to be completed on June 30.

RFC #1006 – Move the Alaska Region Headquarters from the regional WAN to the NWSnet WAN. Only office automation and non-operational traffic are moving. AWIPS and radar traffic are not being moved. A dual 1GB interconnect has been established to ensure reachability across the new network and the legacy network. Implementation began on June 15 at 0000Z and is expected to be completed on June 30.

RFC #1031 – NCODF Dataflow v2.4.0 - Modify the LDM software and SISB NCODF disk mounts to begin writing Level II radar data to IDP for public access through http NOMADS. SPC has requested this protocol to support their mission since other retrieval methods are not adequate. Implementation began on June 23 at 1200Z and is expected to be completed by July 2.

RFC #1035 – Dashboard v1.11.0 - Recalculating NCO Dashboard baseline numbers for the following models: AQM (Air Quality Model) - compensating for completion time variance due to Smoke model activity; ETSS (Extra Tropical Storm Surge) - 24 new files per day due to May upgrade; RAP (Rapid Refresh) - completion times affected by January GFS upgrade; RTMA/URMA (Real-time/Unrestricted Mesoscale Analysis) - upgraded in April and new variable introduced; and Hurricane Wave (Multi\_2) - compensating for completion time variance due to active tropical storms. Implementation began on June 25 at 1200Z and is expected to be completed by July 2.

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**NCO Silver Spring – NWSTG**

The following accelerated items were implemented this past week:

None

The following will be implemented the week of June 29, 2015:

RFC #1038 - This is a standing RFC to approve the addition and/or deletion of location identifiers and/or WMO station index numbers from the appropriate bulletin(s) assigned to the RTG parse and build and build only applications. To be implemented on June 29 at 0000Z.

RFC #1039 - This is a standing RFC. On a daily basis PMB/Data Management makes changes to the TG "Switching Directory" to support new implementations, testing, and/or changes to a customer's data requirements. There are also instances where NCO/SS PMB/TG needs immediate operational support which requires "Switching Directory" changes to be made during off duty hours. To be implemented on June 29 at 0000Z.

RFC #1043 – Set up an application to monitor the downloading of bias ensemble data files from FNMOC. The files are made available twice per day (0Z and 12Z runs) and total 1300 files each cycle. Big Brother in Silver Spring will alert RED if the files are not made available for downloading by a certain time. It will also display the POC at FNMOC to contact. These files that are downloaded are for NCO-CP use. To be implemented on June 29 at 1400Z.

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The following items are in process:

RFC #1024 – Netapp – Install and configure new Netapp heads and disk shelves at site B in Fairmont, WV. Migrate data and clients from the old Netapp to the new one. The old Netapp hardware is no longer under maintenance. Implementation began on June 17 at 1400Z and should be completed by 2000Z on July 9.

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### **NCO Silver Spring – One NWSnet (OPSnet)**

The following accelerated items were implemented this past week:

RFC #4061 - Turn up 1G (management interface) on access-vc0 switch and 10G (data interface) on access-vc7 switch in Fairmont to support the NWSTG NetApp upgrade. Implemented on June 18 at 1400Z.

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The following will be implemented the week of June 29, 2015:

RFC #4059 - Remove a static route on a legacy NWSTG router in Silver Spring to allow Brazil to access the NWSTG socket server via the Internet instead of

using the existing private line and OPSnet. To be implemented on June 30 at 1400Z.

RFC #4060 - Install a multiservice modular interfaces card on the OPSnet routers in Silver Spring to support tunnel max segment size (MSS) modification. This change is needed to support the integration of the new IDP OCONUS network with the existing legacy NCEP and OPSnet networks. To be implemented on June 30 at 1400Z.

RFC #4062 - Enable rsync, LDM, and SFTP protocols from Eastern Region field offices to Eastern Region WebFTP servers. This request includes two additional destination servers (ER Data Backend Servers WERSVR32 and WERSVR8) that were not included in the original RC #4045. To be implemented on June 30 at 1400Z.

RFC #4063 - Allow the Caribou WFO hazardous services group to test a new tool to access a server ([ihis1.fsl.noaa.gov](http://ihis1.fsl.noaa.gov)) in the Global Services Division (GSD) at NOAA. To be implemented on June 29 at 1400Z.

RFC #4064 - Allow access from the Springfield WFO to the City of Springfield traffic cameras on a non-standard port to assist decision support services forecasting for county and state agencies and partners. Implemented on June 25 at 1900Z.

RFC #4066 - Upgrade the operating system on the OPSnet routers in Silver Spring.. This change is needed to support the integration of the new IDP OCONUS network with the existing legacy NCEP and OPSnet networks. To be implemented on June 30 at 1600Z.

RFC #4067 - Install the iPerf performance tool on a new server running Red Hat Enterprise Linux in the 6th floor data center at Silver Spring and connect it to OPSnet. This tool will be used to gather data and troubleshoot OPSnet alternate transport project connections. To be implemented on June 29 at 1400Z.

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**RFCs that are security-related are not included in the RFC Memo.**  
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---- 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://lstrv.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://lstrv.ncep.noaa.gov/mailman/listinfo/ncep.list.rfcmemo>