

September 11, 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 #1268 – nhc\_guidance v1.0.9 - Added a dateline check for Central Pacific storms in the nhc\_guidance job. The job will stop processing the storm if Central Pacific storms cross the dateline, which will then be JTWC's responsibility. Implemented on September 3 at 2000Z.

RFC #1269 – Changed the Apache configuration to allow public use of ctsqa.ncep.noaa.gov. Implemented on September 4 at 1400Z.

RFC #1270 – wave\_multi\_1 and wave\_multi-2 – Modified the multifcst source code for the Global Wave and Hurricane Wave models to deallocate an array if it was previously allocated. This is in response to an operational job failure on September 7. Implemented on September 7 at 1200Z.

RFC #1273 - The DBNet software on WCOSS was modified to stop sending datasets to the Boulder NOMADS server due to a required power outage at the site. The datafeed was to be resumed at 1800Z 09/10/2015. Implemented on September 8 at 1800Z.

RFC #1274 – Datastreme v1.1.1 – Changed the 'set\_env.pl' script where it points to the input satellite data for the 'sat2gif.pl' script. Dataflow had made a change earlier in the day and this is a fix that needed to be put in for the change to the directory structure for Datastreme to see the input data. Implemented on September 9 at 1800Z.

RFC #1275 - Tuned compute and storage resources for dataflow VMs in order to accommodate Himawari data. Implemented on September 10 at 1300Z.

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The following will be implemented the week of September 14, 2015:

RFC #1276 - WCOSS Dataflow v1.66.0, Boulder Dataflow v1.16.0 - Modify the DBNet tables to begin disseminating the Air Quality Model for the upgrade evaluation period. To be implemented on September 14 at 1200Z.

RFC #1277 - Temporarily modify the DBNet tables on WCOSS and NCOSRV to pull observational data from the backup NWSTG server. This is in support of NCO-SS testing their end-to-end backup capabilities for a 6 hour window only. To be implemented on September 14 at 1200Z.

RFC #1279 – Create a Citrix entry for AWC’s QA Tomcat servers, to assist in the migration of aviationweather.gov from the WOC to IDP. To be implemented on September 14 at 1400Z.

RFC #1280 – NCODF Dataflow v2.9.0 – Modify DBNet on NCODF to be able to send Himawari satellite data to AWC and NHC. To be implemented on September 15 at 1200Z.

RFC #1281 – NCOSRV Dataflow v2.7.1 - The DBNet software on NCOSRV is being modified to handle the cleanup of a new GEMPAK grid made by WPC for use by their Winter Weather Desk. To be implemented on September 15 at 1200Z.

RFC #1282 – NCODF Dataflow v2.8.2 - Make data ingest and other input data adjustments in support of IDP NowCoast and IDP Enterprise GIS. Adjustments will improve automated cleanup, reduce data latency, or are in response to product discontinuation. To be implemented on September 15 at 1200Z.

RFC #1283 - Install the ‘psycopg2’ python module on the MADIS processing servers. This was requested by the MADIS On-Boarding Team in order to allow the MADIS Help Desk to implement a Big Brother test for the IDP MADIS in operations that will monitor the connectivity and health of the 'madis' PostgreSQL databases. To be implemented on September 15 at 1200Z.

RFC #1284 – WCOSS Dataflow v1.65.0 – Modify DBNet on WCOSS so that only the production group is able to alert datasets to the DBNet software. To be implemented on September 15 at 1200Z.

RFC #1285 - prod\_filemanager v1.3.1, transfer\_wcoss v1.0.11 - Adding AQM and NWPS to the production cleanup and mirror transfers in preparation for the 30-day parallel evaluations. To be implemented on September 15 at 1200Z.

RFC #1286 – Apache v2.2.15 - Amend Nowcoast's Operational Apache Virtual Server to include an additional alias ‘www.nowcoast.noaa.gov’, so requests to that URL will be served by our web servers. To be implemented on September 15 at 1400Z.

RFC #1287 - Make changes on the MAXLR1 router to allow the NCO EMWIN development VM access to EMWIN systems in NSOF, Fairmont, and SPC. To be implemented on September 15 at 1400Z.

RFC #1288 - Dataflow has transitioned all dataflow services off of Idmex and has requested that the server be decommissioned. Ldmex had hosted a NOAAPORT feed of WMO data that was used by SPC and AWC via LDM for their COOP sites. This LDM feed was moved off of Idmex and onto ncodfidp. To be implemented on September 16 at 1200Z.

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The following items are in progress:

RFC #1096 – WCOSS: SP5 Software Upgrade v5.0 - IBM will apply the Service Pack 5 software upgrade to the WCOSS systems. Included in this upgrade are changes to RHEL, GPFS, IBM PE, IBM xCAT and several other components. IBM software support has released its latest HPC software stack service pack and is urging all x86\_64-based Infiniband HPC Cluster customers to apply it to maximize product support and address some known system issues. Work was completed on Tide. There will be a 2-day outage on Gyre on September 14 and September 15 to install the software upgrade.

RFC #1156 – WCOSS: TO4 network tie-in – Connect the Cray systems' Ethernet and Infiniband networks to WCOSS Phase 1 and Phase 2 network infrastructure. Work was completed on the Reston, VA systems in early August. There will be a one day outage on Gyre on September 21 (tentative) to connect the Cray system Surge to Gyre.

RFC #1169 – Update the Apache Vhost configuration for chartsqa.ncep.noaa.gov to allow select groups to test against the NOS/OCS/Marine Charts Division (MCD) Existing Navigational Chart Data (ENCD) QA site. Implementation began on August 4 at 1400Z; expected completion date is September 15.

RFC #1255 – Deploy a new SSL Certificate package. Implementation began on September 8 at 1500Z and should be completed by 2100Z on September 11.

RFC #1258 - Deploy the qatool in support of the Marine Charts Division's (MCD) Chart Tile Service (CTS) project, specifically to complete the QA environment build. Implementation began on September 9 at 1200Z; was to be completed by September 10.

RFC #1267 – Make the following changes in support of deploying the Marine Charts Division's (MCD) Existing Navigational Chart Data (ENCD) into production in IDP: the site definition for charts.ncep.noaa.gov must be deployed to the IDP

production web farm and the production mounts containing the web data must be mounted on the rzdm servers to support data updates. These changes must be in-place before the WOC points [www.charts.noaa.gov](http://www.charts.noaa.gov) at IDP. Was to be implemented on September 10 at 1200Z.

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**NCO Silver Spring – NWSTG**

The following accelerated items were implemented this past week:

RFC #1272 - Changed the LDM configuration on the Radar2rcv1/2.tgprod2 servers to allow an LDM request from additional NCEP SRC IPs (NCEP-WCOSS) to radar2rcv1/2. Implemented on September 8 at 1400Z.

The following will be implemented the week of September 14, 2015:

RFC #1289 – In support of SNMP (simple network management protocol) monitoring of TG systems and appliances from the EM7 monitoring tool, install, configure, and start snmpd on all TG systems and enable SNMP on NetApp appliances at site A and site B. Implementation to begin on September 17 at 1400Z and be completed by September 30.

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The following items are in progress:

None

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

The following accelerated items were implemented this past week:

None

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The following will be implemented the week of September 14, 2015:

RFC #4204 – Add connectivity for the PDA (Product Distribution and Access) project for AWIPS II data delivery in Anchorage, AK (ARCN) to the PDA OPS and CBU (Consolidated Back-Up) sites. To be implemented on September 14 at 1400Z.

RFC #4205 – Provide remote desktop access from the Sacramento WFO to the GIS server at Western Region Headquarters for development of GIS applications in support of operations. To be implemented on September 14 at 1400Z.

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**NCO Kansas City**

The following accelerated items were implemented this past week:

None

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The following will be implemented the week of September 14, 2015:

RFC #1278 – Provide tuning for http://water.weather.gov. This change will synchronize the tileset expiration times so the precipitation tiles will always have current full resolution tiles. To be implemented on September 14 at 1400Z.

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The following items are in progress:

RFC #1202 - Create a server in each of the production environments on which to store backups of all databases. Each server will be a VM with 500 GB of storage and will include client and backup software for mysql, postgresql, and mongodb. Implementation began on August 18 at 1500Z' was to be completed by 2100Z on August 21; networking and email issues related to the move of Central Region HQ to the NCEP network has pushed this back to the week of September 14.

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**NCO OCONUS**

The following accelerated items were implemented this past week:

None

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The following will be implemented the week of September 14, 2015:

None

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**NCO Boulder**

The following accelerated items were implemented this past week:

None

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The following will be implemented the September 14, 2015:

None

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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://ltsrv.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://ltsrv.ncep.noaa.gov/mailman/listinfo/ncep.list.rfcmemo>