

October 16, 2015

MEMORANDUM FOR: Distribution Email

FROM: Chris Caruso Magee
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SUBJECT: Scheduled Operational Changes and Upgrades

NCO College Park

The following accelerated items were implemented this past week:

RFC #1382 – WCOSS Dataflow – Began sending additional GFM (GFDL Hurricane Model) files to TGFTP-IDP. The additional files will be a correction to WCOSS DBNet configuration, restoring missing forecast hours greater than 96. This will complete the GHM file set on TGFTP-IDP, matching the file set on TGFTP-SS (Silver Spring). This was in preparation for the live test of TGFTP-IDP on 10/13. Implemented on October 9 at 1200Z.

RFC #1383 - IBM made the following changes to prepare the system for users:
1) add an environment variable that tells whether the system is Luna or Surge;
2) add /gpfs/hps/nco/ops/nwprod/lib/modulefiles,
/gpfs/hps/nco/ops/nwprod/modulefiles, /usrx/local/modulefiles, /usrx/local/dev,
/usrx/local/prod to the MODULEPATH; 3) set up rotation of the LSF logs.
Implemented on October 12 at 1400Z.

RFC #1384 - Mounted CPC's internet content volume to their compute farm systems. This is to work out content publishing without using rsync.
Implemented on October 13 at 1300Z.

RFC #1386 - SSH login options on the bastion servers for TO4 systems did not have X11-forwarding enabled. X11-forwarding is very desirable and currently enabled for phase-1 and phase-2 login shell options. Implemented on October 15 at 1600Z.

The following will be implemented the week of October 19, 2015:

RFC #1309 – SREF v7.0.4 – Major upgrade of the SREF, including increasing the total members from 21 to 26, increase vertical levels, and other changes. See the TIN at: <http://www.nws.noaa.gov/os/notification/tin15-32srefaad.htm> for specifics. The SREF has now been approved for implementation by the NCEP Director. It will be implemented on October 21, effective with the 1500Z cycle.

RFC #1332 – GFS_MOS v4.2.2 – Major GFS MOS upgrade. See TIN 15-34 at: http://www.nws.noaa.gov/os/notification/tin15-34gfs_mos_cca.htm for details. To be re-implemented on October 19 at 1200Z.

RFC #1333 – GLMP v1.1.0 – Major Gridded LAMP upgrade. See TIN 15-41 at: http://www.nws.noaa.gov/os/notification/tin15-41griddedlamp_upgrade_T_Td_C_V_add_S_windsv2.htm for details. To be re-implemented on October 19 at 1400Z.

RFC #1377 – ICS – Add the L_MPI_INC environment variable to all module files. This is needed to build the code for the NGAC upgrade. Was to be implemented on October 14 at 1400Z; new implementation date/time is October 20 at 1630Z..

RFC #1378 – Marine Chart Division's (MCD) Existing Navigational Chart Data (ENCD) websites will be brought online in IDP for operational support. The sites are www.charts.noaa.gov and fedgovsupport.charts.noaa.gov. Was to be implemented on October 15 at 1200Z; delayed by CWD until October 19.

RFC #1379 – WCOSS Dataflow v1.71.0 - Modify the Dataflow Mirror Utility on WCOSS to begin pulling in the FNMOC data from IDP instead of the Gateway. This is in support of the NWSTG transition. Until the IDP BB servers are stood up in CP, the SDMs' BB will be the only FNMOC flags. The SDM will keep the same procedures as they do today and notify Tech Control. Tech Control will continue to be the POC with FNMOC. The granularity of number of files missing will be added to Dataflow's BB to match with current TG output. Was to be implemented on October 15 at 1200Z; FNMOC transition issues have caused this to be pushed back to October 21.

RFC #1381 – LSF v9.1.2 - On WCOSS, enable collection of GPFS MMPMPON data for production jobs running on the development machine. Currently we only collect this information for exclusive development jobs on the system. These metrics are used to create graphs of I/O usage on the development system. Was to be implemented on October 15 at 1800Z; new implementation date is October 21 at 1630Z.

RFC #1388 – Add a static route on the NSOF router to support the FNMOC development network and set up redundancy for this on the TOC router. To be implemented on October 19 at 1400Z.

RFC #1390 - Allow NLETS test servers to push data via web services to NLETS remote site. To be implemented on October 19 at 1400Z.

RFC #1391 – Set up a standing RFC to cover the documented failover procedure for the IDP Tsunami application, to prepare the application for weekly operational system patching on Thursdays. Patching will begin on October 22. An SOE

calendar entry will be created to announce the patching to all who have SOE access.

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 October 20 at 1200Z.

RFC #1394 - Transition all ftp services hosted on tgftp.nws.noaa.gov from the hardware located in Silver Spring to the hardware located in College Park IDP. This is in support of the NWSTG migration. To be implemented on October 20 at 1300Z.

RFC #1395 – Remove the ‘default’ tag from the WCOSS phase 1 libraries so developers are not confused. The default libraries on WCOSS are those on phase 2. These are the ones that have precedence when one is loading a default library without specifying a version number. To be implemented on October 20 at 1300Z.

RFC #1396 – GTG v3.0.2 – First operational release of the Graphical Turbulence Guidance on WCOSS. See the TIN at: http://www.nws.noaa.gov/os/notification/tin15-42gtg_aaa.htm for details. To be implemented on October 20 at 1330Z.

RFC #1397 – NCO RFC form/spreadsheet v2.2.0, TWC RFC form/spreadsheet v2.1.0 - Implement a script that runs upon RFC form submission which will email a copy of the RFC contents to the submitter. Done so that the submitter has a copy of his/her responses regardless of whether or not the “send me a copy of my responses” box was checked on the RFC form. To be implemented on October 20 at 1400Z.

RFC #1399 – NESDIS/OSPO is discontinuing the push of GOES_IR reformatted data on DDS at 1500Z October 20 for filenames GIM.G13.D?????.S?????.T?????.* and GIM.G15.D?????.S?????.T?????.*. Turn off the GOES_IR ingest job on WCOSS which stores this data into /dcom/us007003/goes_ir/, since no models use this data. To be implemented on October 20 at 1500Z.

RFC #1401 - Stand-up the IRIS operational environment. The IWSB Linux team will build and configure the system and will coordinate with the NSB Network team to create the required Citrix configuration. To be implemented on October 21 at 1200Z.

The following items are in progress:

RFC #1359 – NCODF Dataflow v2.11.0 – Modify DBNet on NCODF to begin sending Himawari data to Alaska Region, OPCN, and HPCN, slowly, over a 2 week period, to ensure the sites can handle the volume of data. Implementation began on October 7 and should be completed on October 22.

RFC #1373 - Change the DNS for tgftp.nws.noaa.gov to point to College Park for a few hours the first day then a full 24 hours a following day to do a full live test. To be implemented on October 13 at 1400Z and be completed by 1900Z on October 19.

The following NCO RFC 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 have been delayed from their initially advertised implementation dates and are on hold:

RFC #1320 – Himawari v1.2 – Himawari was to be declared operational on IDP effective September 30 at 1200Z. This was approved at the Sep. 24 NCO CCB but was not approved by the NCEP Director at the Sep. 28 briefing, so it is on hold until a future date.

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.

NCO Silver Spring – NWSTG

The following accelerated items were implemented this past week:

RFC #1385 - Added 2GB memory to each of fepsim1 and fepsim2 systems at site A to make them identical as fepsim1/fepsim2 at site B. While investigating missing METAR's issue at site A, noticed that fepsim1/fepsim2 (Parse and Store ODB code runs on these machines) at site A have less memory allocated compared to site B systems. Implemented on October 13 at 2030Z.=

The following will be implemented the week of October 19, 2015:

RFC #1387 - The replication servers at site A and site B crashed with signal 11 once every 10 - 14 days. SAP has suggested we upgrade it to the next version to fix the issue. There are 4 production replication servers. We will do the upgrade one server at a time and start at site B first. Implementation to begin on October 19 at 1330Z and be completed by November 30.

RFC #1389 - Configure rsync to send HCE's (HazCollect Extended) input data from TOC (TG) to IDP (dev, qa, prd) and rsync HCE's output from IDP to TG for monitoring/troubleshooting purposes. To be implemented on October 19 at 1400Z.

The following items are in progress:

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 began on September 17 at 1400Z, was to be completed by September 30; has been further delayed until October 16 due to CWD and higher priority tasks.

RFC #1380 – The FNMOC data pull of Grib2-bundled and ocean data are being transitioned to IDP in CP. IDSB at SS no longer needs to pull the data from FNMOC and also monitor the pull. This RFC is to stop that process. The pull of Grib2-bundled data and BB monitoring of it was to be discontinued on October 15 at 1400Z; FNMOC transition issues have caused this to be pushed back to October 21. The pull of ocean data and BB monitoring of it will be discontinued at a date TBD after October 21.

NCO Silver Spring – One NWSnet (OPSnet)

The following accelerated items were implemented this past week:

RFC #4263 – Granted access from NCO/OMB - SS to NCO College Park's Big Brother application. Implemented on October 13 at 1900Z.

The following was implemented the week of October 5, 2015:

RFC #4239 - Decommission ethernet port 2/4 for NPN (NOAA Profiler Network) on NEXRAD Normal customer edge. This was implemented on October 6 at 1400Z. It was missed at the weekly OPSnet CCB on October 1 so it wasn't announced via the RFC memo prior to implementation.

The following will be implemented the week of October 19, 2015:

RFC #4250 - Establish LDM feed from AWIPS to NIDS in IDP for Level 3 Radar. To be implemented on October 20 at 1400Z.

RFC #4262 – Grant access from the National Operational Hydrologic Remote Sensing Center (NOHRSC) to SFTP ingest. To be implemented on October 19 at 1400Z.

NCO Kansas City

The following accelerated items were implemented this past week:

None

The following will be implemented the week of October 12, 2015:

RFC #1392 - Run SQL script to update observation databases. Updating observation sites for WRH's PDT (Pendleton), PQR (Portland), and MFR (Medford) WFOs. To be implemented on October 19 at 1700Z.

RFC #1398 – AHPS v10.1.4 – Updates to include: Multiple display fixes; upgrade to ESRI 3.13 API from v3.10; fix RSS alerts for Alaska. To be implemented on October 20 at 1500Z.

RFC #1400 – Correct the Border Gateway Protocol (BGP) router-ids on routers KCLR1 and KCLR2 to keep within standards and help prevent any unnecessary BGP flapping or reconvergence. To be implemented on October 20 at 1600Z.

RFC #1402 – Redirect traffic from the legacy Pacific Region site to the weather.gov content management system (CMS) pages. Redirect some field office names to Southern Region pages. To be implemented on October 21 at 1500Z.

NCO OCONUS

The following accelerated items were implemented this past week:

None

The following will be implemented the week of October 19, 2015:

None

NCO Boulder

The following accelerated items were implemented this past week:

None

The following will be implemented the week of October 19, 2015:

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.modelevelinfo>

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>