October 30, 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 #1419 – wave_glw v3.3.7 – Added a filter to one of the Great Lakes Wave (GLW) model scripts to prevent the NIC ice file from being used if it is received outside of the ice season window of November 1 through May 31. This was implemented because an ice file containing all zeros was inadvertently disseminated on October 23 and picked up by the GLW model, thus causing erroneous output. Implemented on October 23 at 2200Z.

RFC #1420 – The IDP Dataflow Mirror configuration was modified to pull SOPFEU fire weather observations from a new directory. The SOPFEU FTP server had changed its configuration but NCO was not aware of the change prior to its occurrence. Implemented on October 26 at 1500Z.

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

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 #1423 – prod_filemanager v1.3.12 – Update two parm files to include the parallel Global RTOFS data in the scheduled cleanup of the WCOSS Phase 2 disks.   To be implemented on November 2 at 1300Z.

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 #1427 – Create a Citrix rule for the NWC SNODAS IDP migration. This will allow for testing the HTTPS-enabled site in the development environment. To be implemented on November 2 at 1400Z.

RFC #1428 – Deploy an updated certificate to allow for addition of the tileservice.charts.noaa.gov URL, addition of the Hysplit.ncep.noaa.gov URL, and addition of the www.ncep.noaa.gov URL. To be implemented on November 2 at 1700Z.

RFC #1429 – Allow multiple users in NOS/MCD (Marine Chart Division) to have the ability to push and manage the Existing Navigational Chart Data (ENCD) products on RZDM. This change will also allow for better auditing. To be implemented on November 3 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 #1431 – NCODF Dataflow v2.12.0 - Modify the DBNet tables on NCODF to begin sending Himawari data to a brand new AWC DBNet system. This is at the request of AWC who wants to keep Himawari separate from their other dataflow. To be implemented on November 3 at 1300Z.

RFC #1432 – Implement a standing RFC to be executed weekly. NCO's IDP team will execute the benchmark tests for the IDP Tsunami applicate per the PMEL-provided test plan in order to verify that the application is healthy, should the application be triggered by an actual seismic event.   A weekly Schedule of Events entry will be created for this RFC. To be implemented on November 3 at 1400Z.

RFC #1433 – xCAT – Install the IBM HPC Cluster Health Check package on WCOSS – Tide, to verify correct node and cluster configuration prior to returning nodes to service after performing maintenance. To be implemented on November 3 at 1400Z.

RFC #1434 - Update the decod_dcltng lightning decoder to handle a new encryption scheme that will be implemented for the Vaisala lightning data on November 12, 2015 per NWS TIN 15-47. Update the decod_dcalps ALPS decoder to exit gracefully if a corrupted file is received. To be implemented on November 3 at 1500Z.

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 #1436 – Begin operational support of the IDP Tsunami model application by NCO/OMB, NCO/IDSB, NCO/IWSB, and PMEL. To be implemented on November 4 at 1200Z.

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.

RFC #1438 - Deploy 2 Chart Tile Service (CTS) sites on the operational intranet and dmz web clusters. These sites are qatool.cts.ncep.noaa.gov and tileservice.charts.noaa.gov. The latter will be a public-facing site but at this time, it will only be accessible from NCEP's inside networks. To be implemented on November 5 at 1300Z.

RFC #1439 – MRMS v10.0.2 – Perform the seasonal update of the Canadian Cluttermap configuration files for optimal performance. To be implemented on November 5 at 1400Z.

The following items are in progress:

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 caused this to be delayed. Implementation began on October 27. Expected completion date is TBD.

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 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.

The following have been delayed from their initially advertised implementation dates and 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.

NCO Silver Spring – NWSTG

The following accelerated items were implemented this past week:

None

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

RFC #1426 - Provide data feed for IDP BMT (BUFR Migration Tool) production systems, migrate all data feeds for dev (NLETS, FTPS, BMT) from production bridge servers to development bridge servers. To be implemented on November 2 at 1400Z.

The following items are in progress:

RFC #1380 – The FNMOC data pull of Grib2-bundled and ocean data are being transitioned to IDP in College Park. IDSB at Silver Spring 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 caused this to be delayed. The Grib2 data pull was stopped on October 28. The discontinuation of the ocean data pull is TBD.

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 began on October 19 at 1330Z and should be completed by November 30.

NCO Silver Spring – One NWSnet (OPSnet)

The following accelerated items were implemented this past week:

RFC #4286 – Route IDP Himawari data flow into AWIPS-II. Implemented on October 30 at 1400Z.

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

RFC #4258 – Establish access between the regional AD server at the Anchorage RFC/WFO and the OPSnet-hosted NADS (National Active Directory Services) AD server at Central Region Headquarters. To be implemented on November 2 at 1500Z.

RFC #4261 – Establish access between the OPSnet-hosted NADS AD server at Alaska Region Headquarters and the regional AD server at the Anchorage RFC/WFO. To be implemented on November 2 at 1500Z.

RFC #4276 – Grant NOAA enterprise access to the OPSnet EM7 portal. To be implemented on November 2 at 1500Z.

RFC #4279 – Perform OPSnet Verizon WAN turn up and customer LAN turn up for NEXRAD OCONUS radar sites at Camp Humphreys, South Korea, Kunsan

Air Base, South Korea, and Hickam Air Force Base, Hawaii. To be implemented on November 4 at 2000Z.

RFC #4280 – Perform OPSnet Verizon WAN turn up and customer LAN turn up for NLSC (National Logistics Support Center) & NRC (National Reconditioning Center) at their new location in Grandview, Missouri. To be implemented on November 3 at 1500Z.

RFC #4281 – Migrate all OPSnet services on Verizon at Boulder to the OPSnet access point 02, serviced by NWAVE. Implementation began on October 30 at 1400Z and should be completed by November 5.

The following items are in progress:

RFC #4241 Implement access for new Alaska region subnets in support of their migration to a new IP addressing scheme. Implementation began on October 26 at 1400Z and is expected to take up to 2 weeks to be completed.

NCO Kansas City

The following accelerated items were implemented this past week:

None

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

None

The following items are in progress:

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. Implementation began on October 21 at 1500Z; Pacific Region completed on October 22; Southern Region deployed in Kansas City on October 22. A helpdesk ticket was opened for the Southern Region deployment in College Park, so the completion date for this work is TBD.

NCO OCONUS

The following accelerated items were implemented this past week:

None

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

None

NCO Boulder

The following accelerated items were implemented this past week:

None

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

None

The following items are in progress:

RFC #1418 – Replace copper and fiber cables with proper length cables. Implementation began on October 27 at 1400Z; was to be completed by October 29; receipt of new cables was delayed, so this should be completed by November 5.

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.modelevalinfo

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