

April 10, 2020

MEMORANDUM FOR: Distribution Email

FROM: Chris Caruso Magee  
Configuration Manager, NCEP Central Operations

SUBJECT: Scheduled Operational Changes and Upgrades for  
CPC, EMC, OPC, and WPC

**Climate Prediction Center**

The following accelerated items were implemented this past week:

None

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The following approved changes will be implemented the week of April 13, 2020:

None

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The following RFCs are in progress:

None

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The following NCO RFCs which may affect CPC are scheduled to be implemented the week of April 13, 2020:

RFC 6751 - Acquire SCRIPPS Argo data for CPC. Data is 82M total on disk and is only updated once a month. This data is needed to support CPC's Ocean GODAS project. To be implemented on April 13 at 1000Z.

RFC 6759 - Modify iptables on IDPDM servers idpdm{01..20} in College Park and Boulder to allow access on port 5432 for three CPC VMs (centersop-pgr1a.ncep.noaa.gov, centersop-pgr1b.ncep.noaa.gov, and center-pgop10-read.ncep.noaa.gov). Access to idpdm is needed for a CPC project. To be implemented on April 13 and 14 at 1600Z each day.

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The following NCO RFCs which may affect CPC are in progress:

RFC 6591 - On WCOSS, update the bastion menu to remove "limited access" from the menu prompt for the Phase 3.5 system. Implemented in Orlando on February 24 at 1600Z; to be implemented in Reston on April 21 at 1600Z.

RFC 6690 - Implement NetApp quarterly updates. Implementation began on March 23 and the last 2 clusters to be updated are scheduled as follows:

- ❖ bldrnascluster01 – April 14, 1300Z – 1900Z
- ❖ nhcstore – April 15, 1300Z – 1600Z.

RFC 6707 - Migrate production RHEL6 servers to use Satellite 6 instead of Satellite 5.8. Satellite 5.8 is reaching end of life in May 2020. Implementation began on March 30 at 1300Z and should be completed on April 24. The list of servers to be migrated is available upon request.

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### **Environmental Modeling Center**

The following accelerated items were implemented this past week:

None

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The following approved changes will be implemented the week of April 13, 2020:

None

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The following RFCs are in progress:

None

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The following NCO RFCs which may affect EMC are scheduled to be implemented the week of April 13, 2020:

RFC 6752 - Begin alerting parallel files for RAP/HRRR/RTMA/URMA/PCPANL models. This change is being made to make parallel files available for testing. To be implemented on April 13 and 14 at 1100Z each day.

RFC 6753 – RAP v4.0.17 - Turn off the use of CrIS data in the RAP model. The decod\_dcears (EUMETSAT ATOVS Retransmission Services) decoder is being modified (see RFC 6762) and will process CrIS Full Spectral Radiance (FSR) feeds which are required for the next version of the EMC Rapid Refresh (RAPv5/HRRRv4). However, this new CrIS data will cause the current production RAPv4 model to crash, so this RFC is needed to turn off use of the CrIS data in the RAPv4. To be implemented on April 13 at 1200Z.

RFC 6762 – decod\_dcears v3.11.0 - The decod\_dcears decoder is being modified to process Direct Broadcast GTS BUFR file feeds of CrIS, IASI, and ATMS satellite radiances. To be implemented on April 14 at 1300Z.

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The following NCO RFCs which may affect EMC are in progress:

RFC 6591 - On WCOSS, update the bastion menu to remove “limited access” from the menu prompt for the Phase 3.5 system. Implemented in Orlando on February 24 at 1600Z; to be implemented in Reston on April 21 at 1600Z.

RFC 6707 - Migrate production RHEL6 servers to use Satellite 6 instead of Satellite 5.8. Satellite 5.8 is reaching end of life in May 2020. Implementation began on March 30 at 1300Z and should be completed on April 24. The list of servers to be migrated is available upon request.

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### **Ocean Prediction Center**

The following accelerated items were implemented this past week:

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The following approved changes will be implemented the week of April 13, 2020:

None

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The following RFCs are in progress:

None

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The following NCO RFCs which may affect OPC are scheduled to be implemented the week of April 13, 2020:

RFC 6752 - Begin alerting parallel files for RAP/HRRR/RTMA/URMA/PCPANL models. This change is being made to make parallel files available for testing. To be implemented on April 13 and 14 at 1100Z each day.

RFC 6753 – RAP v4.0.17 - Turn off the use of CrIS data in the RAP model. The decod\_dcears (EUMETSAT ATOVS Retransmission Services) decoder is being modified and will process CrIS Full Spectral Radiance (FSR) feeds which are required for the next version of the EMC Rapid Refresh (RAPv5/HRRRv4). However, this new CrIS data will cause the current production RAPv4 model to crash, so this RFC is needed to turn off use of the CrIS data in the RAPv4. To be implemented on April 13 at 1200Z.

RFC 6758 - Update the puppet code in git for the python-pip install for OPC workstations. This change is needed to differentiate python-pip install according to OS major version. To be implemented on April 13 at 1500Z.

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The following NCO RFCs which may affect OPC are in progress:

RFC 6690 - Implement NetApp quarterly updates. Implementation began on March 23 and the last 2 clusters to be updated are scheduled as follows:

- ❖ bldrnascluster01 – April 14, 1300Z – 1900Z
- ❖ nhcstore – April 15, 1300Z – 1600Z.

RFC 6707 - Migrate production RHEL6 servers to use Satellite 6 instead of Satellite 5.8. Satellite 5.8 is reaching end of life in May 2020. Implementation began on March 30 at 1300Z and should be completed on April 24. The list of servers to be migrated is available upon request.

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### **Weather Prediction Center**

The following accelerated items were implemented this past week:

None

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The following approved changes will be implemented the week of April 13, 2020:

None

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The following RFCs are in progress:

None

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The following NCO RFCs which may affect WPC are scheduled to be implemented the week of April 13, 2020:

RFC 6752 - Begin alerting parallel files for RAP/HRRR/RTMA/URMA/PCPANL models. This change is being made to make parallel files available for testing. To be implemented on April 13 and 14 at 1100Z each day.

RFC 6753 – RAP v4.0.17 - Turn off the use of CrIS data in the RAP model. The decod\_dcears (EUMETSAT ATOVS Retransmission Services) decoder is being modified and will process CrIS Full Spectral Radiance (FSR) feeds which are required for the next version of the EMC Rapid Refresh (RAPv5/HRRRv4). However, this new CrIS data will cause the current production RAPv4 model to crash, so this RFC is needed to turn off use of the CrIS data in the RAPv4. To be implemented on April 13 at 1200Z.

RFC 6755 - For WPC, add a root reboot cron to restart NFS after all services have started. NFS exports on the WPC NAWIPS workstations use the /export directory that is controlled by the auto mounter. During a reboot if the NFS service starts before the autofs service, the NFS export will fail and the workstation mount may not be available until the NFS service is restarted. To be implemented on April 13 at 1300Z.

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The following NCO RFCs which may affect WPC are in progress:

RFC 6690 - Implement NetApp quarterly updates. Implementation began on March 23 and the last 2 clusters to be updated are scheduled as follows:

- ❖ bldrnascluster01 – April 14, 1300Z – 1900Z
- ❖ nhcstore – April 15, 1300Z – 1600Z.

RFC 6707 - Migrate production RHEL6 servers to use Satellite 6 instead of Satellite 5.8. Satellite 5.8 is reaching end of life in May 2020. Implementation began on March 30 at 1300Z and should be completed on April 24. The list of servers to be migrated is available upon request.

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Please note that security-related RFCs are never listed in the RFC memo.

---- OPERATIONAL ANNOUNCEMENTS ----

The CPC/OPC/WPC Configuration Management documents are available at <https://sites.google.com/a/noaa.gov/nws-ncep-nco-cm/>.

Please review these documents if you have questions prior to submitting changes for CPC/OPC/WPC configurable items.

Users who wish to view their network utilization via the Scrutinizer appliance may request access from NCO/IWSB. Please send an account request to the NCWCP Helpdesk at [NCWCP.helpdesk@noaa.gov](mailto:NCWCP.helpdesk@noaa.gov).