

July 31, 2020

MEMORANDUM FOR: Distribution Email

FROM: Chris Caruso Magee  
Configuration Manager, NCEP Central Operations

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

Please note that RFCs prefaced by 3 asterisks (\*\*\*) are being highlighted due to widespread operational impact.

**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 August 3, 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 August 3, 2020:

RFC 7112 - Migrate the existing WCOSSPASS2 (Tide/Gyre) user management system to WCOSSPASS3 (Mars/Venus). The existing bastion servers will also migrate to Mars/Venus. There'll be a 3 hour outage of wcosspass (unavailable for user password changes, new users, terminating users). No impact to all other cluster functions. To be implemented on August 4 at 1400Z.

RFC 7117 – Begin alerting GEFSv12 parallel data to the Centers from WCOSS and begin hosting the output on NOMADS. To be implemented August 4 – August 6 at 1100Z each day.

RFC 7121 - Stop routing internal Intra web sites for CPC, OPC, WPC, and NCO to the NCO Employee Suggestion Box on https. To be implemented on August 4 at 1300Z. There may be a very brief disruption to traffic for about 5 minutes while this work is being done.

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

RFC 7041 - Move Enterprise Internet Traffic from Silver Spring to College Park. This change is being made to move Enterprise Internet related traffic off the Silver Spring OC-12 connection and also legacy devices that are end of life. Full details of this work will be sent upon request. The dates/times are as follows:

- Additional Testing & Troubleshooting Window - The remainder of the maintenance time (July 8 to August 7: 1400Z to 2200Z each weekday) will be to address any immediately reported or observed fallout from the internet traffic migration.

RFC 7048 - Install latest RHEL 7.5 updates on Mars and Venus. If a user is logged into an access node that is to be upgraded, they'll be kicked off and they can just login again and will land on a different node. Implementation began in Reston on July 13 and was completed on July 23; to be implemented in Orlando beginning on August 5 and ending on August 22 (work to be done between 1000Z and 0500Z each weekday).

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**Ocean 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 August 3, 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 August 3, 2020:

RFC 7111 – NHC\_WSP v1.5.2 – Implement changes in two subroutines in the nhc\_wsp code to update the bias correction method. To be implemented on August 3 at 1300Z.

RFC 7117 – Begin alerting GEFSv12 parallel data to the Centers from WCOSS and begin hosting the output on NOMADS. To be implemented August 4 – August 6 at 1100Z each day.

RFC 7119 – HWRF v13.0.0 - The Hurricane Weather and Research Forecast (HWRF) model will be upgraded from version 12 to version 13 on the WCOSS Cray system. The upgrade will be valid starting with the 1200Z run of the model. A few highlights: high resolution land-sea mask, using three hourly lateral boundary conditions from the GFS, assimilate additional satellite observations, assimilate NEXRAD radial wind data, and switch to RTOFS to initialize ocean model in NATL and EPAC. See the SCN at: [https://www.weather.gov/media/notification/pdf2/scn20-54hwrp\\_v13aaa.pdf](https://www.weather.gov/media/notification/pdf2/scn20-54hwrp_v13aaa.pdf). To be implemented on August 4 at 1200Z.

RFC 7121 - Stop routing internal Intra web sites for CPC, OPC, WPC, and NCO to the NCO Employee Suggestion Box on https. To be implemented on August 4 at 1300Z. There may be a very brief disruption to traffic for about 5 minutes while this work is being done.

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

RFC 7041 - Move Enterprise Internet Traffic from Silver Spring to College Park. This change is being made to move Enterprise Internet related traffic off the Silver Spring OC-12 connection and also legacy devices that are end of life. Full details of this work will be sent upon request. The dates/times are as follows:

- Additional Testing & Troubleshooting Window - The remainder of the maintenance time (July 8 to August 7: 1400Z to 2200Z each weekday) will be to address any immediately reported or observed fallout from the internet traffic migration.

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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 August 3, 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 August 3, 2020:

RFC 7117 – Begin alerting GEFSv12 parallel data to the Centers from WCOSS and begin hosting the output on NOMADS. To be implemented August 4 – August 6 at 1100Z each day.

RFC 7119 – HWRF v13.0.0 - The Hurricane Weather and Research Forecast (HWRF) model will be upgraded from version 12 to version 13 on the WCOSS Cray system. The upgrade will be valid starting with the 1200Z run of the model. A few highlights: high resolution land-sea mask, using three hourly lateral boundary conditions from the GFS, assimilate additional satellite observations, assimilate NEXRAD radial wind data, and switch to RTOFS to initialize ocean model in NATL and EPAC. See the SCN at:

[https://www.weather.gov/media/notification/pdf2/scn20-54hwrp\\_v13aaa.pdf](https://www.weather.gov/media/notification/pdf2/scn20-54hwrp_v13aaa.pdf). To be implemented on August 4 at 1200Z.

RFC 7121 - Stop routing internal Intra web sites for CPC, OPC, WPC, and NCO to the NCO Employee Suggestion Box on https. To be implemented on August 4 at 1300Z. There may be a very brief disruption to traffic for about 5 minutes while this work is being done.

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

RFC 7041 - Move Enterprise Internet Traffic from Silver Spring to College Park. This change is being made to move Enterprise Internet related traffic off the Silver Spring OC-12 connection and also legacy devices that are end of life. Full details of this work will be sent upon request. The dates/times are as follows:

- Additional Testing & Troubleshooting Window - The remainder of the maintenance time (July 8 to August 7: 1400Z to 2200Z each weekday) will be to address any immediately reported or observed fallout from the internet traffic migration.

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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).