

NCEP Synergy Meeting Highlights: July 13, 2015

This meeting was led by Mark Klein (WPC) and attended by Scott Jacobs (WPC); Justin Cooke (NCO); Mark Iredell, Vijay Tallapragada, and Geoff DiMego (EMC); Benjamin Schwedler and Steve Lack (AWC); Israel Jirak (SPC); David Myrick (MDL); John Eise (CR); Jason Taylor (NESDIS).

1. NOTES FROM NCO (Steven Earle)

Discontinuation of the NCEP FTP Server

- Scheduled for August 18, 2015
- This applies to the following links:
 - <http://www.ftp.ncep.noaa.gov>
 - <ftp://ftp.ncep.noaa.gov>
 - <http://www.ftpprd.ncep.noaa.gov>
 - <ftp://ftpprd.ncep.noaa.gov>
- Users who access any of the above links will need to transition to NOMADS.
- FTP is not available on NOMADS, so FTP users will need to transition to HTTP for data downloads.
- The purpose of this change is to leverage cloud services for NOMADS, which will improve reliability and availability of data and is expected to improve download performance. These improvements are expected only after NOMADS transitions to cloud services after August 18, 2015.
- FTTPRD users are encouraged to configure parallel HTTP data pulls from NOMADS prior to August 18, 2015.
- This change will not impact the NWSTG FTP server (tgftp.nws.noaa.gov)
- The TIN is available here:
http://www.nws.noaa.gov/os/notification/tin15-21ftpprd_end.htm

McIDAS satellite sector remapping

- Delayed to TBD (from August 4th)
- The purpose of this is to consolidate sectors in order to provide higher resolution imagery

HIRESW

- NCEP Director briefing on July 23; let NCO know if you'd like to participate
- Implementation scheduled for July 28
- Details provided in TIN:
 - <http://www.nws.noaa.gov/os/notification/tin15-27hireswaaa.htm>

ECMWF-based MOS Station Guidance

- Implementation scheduled for July 14

SREF

- NCEP Director briefing scheduled for July 27; let NCO know if you'd like to participate
- Implementation scheduled for July 28
- Details provided in TIN:
 - <http://www.nws.noaa.gov/os/notification/tin15-32srefaaa.htm>

GEFS

- 30-day evaluation scheduled to start late July - early August
- Implementation planned for mid-September

RTOFS Global

- 30-day evaluation was delayed due to instability in the model. It is expected to start this week
- Implementation is planned for end of August
- TIN: **COMING SOON!**

GLAMP

- NCO has received the code
- 30-day evaluation to start by the end of July
- Implementation planned for September

GFS MOS station and gridded guidance

- NCO has received the code
- 30-day evaluation to start by the end of July
- Implementation planned for September

NHC Guidance Suite

- Planned implementation in July

AWC Graphical Turbulence Guidance (GTG)

- NCO has received the code
- Evaluation to start by the end of July
- Implementation planned for September

Extra-Tropical Storm Surge (ETSS)

- NCO has received the code
- Evaluation to start by the end of July
- Implementation planned for September

Near-shore Wave Prediction System (NWPS)

- NCO has yet to receive the code
- Evaluation planned for August
- Implementation for two WFO's (MIA/BOS) in mid-September

2. NOTES FROM EMC

2a. Global Climate and Weather Modeling Branch (GCWMB) (Mark Iredell, Vijay Tallapragada):

CFS has been delayed to FY16Q1 for additional evaluation. GFS delayed until Q2.

2b. Mesoscale Modeling Branch (MMB) (Geoff DiMego)
- SREF

30 Day parallel will start sometimes this week and the TIN should be out in a day or two

NAM upgrade (Delivery of package to NCO, originally planned for mid-September, is delayed 2-3 months)

- Increase resolution of CONUS nest from 4 km to 3 km; CONUS nest output grid will be the same as that from the HRRR. 3 km nest has improved QPF bias over 4 km CONUS nest at higher thresholds.

- Increase resolution of Alaska nest from 6 km to 3 km

- Physics changes (now being tested or under development; subject to change)

- Convection changes (higher 12 km NAM QPF bias)

- Removed "Dry" soil adjustment (addressed winter cool/moist bias) due to increasing warm bias as we moved into summer. Investigations are ongoing to make a more "targeted" change for the cool season

- PBL changes to address maritime shallow cloudiness

- Replace 3-h NDAS (12 m domain only) with hourly cycled system (NAMRR) with 12-km parent/3 km CONUS and 3 km Alaska nest; make 18h forecast of 12 km parent and 3 km CONUS/Alaska nest every hour; first step towards future convection-allowing ensemble (ARW members (i.e., 3 km HRRR) + NMMB members (3 km NAM nests))

RTMA/URMA - 1st quarter 2016 and go in with National Blend implementation and will go in this calendar year (max/min temp, ceiling height, cloud amt, sig wave height)

2c. Marine Modeling and Analysis Branch (MMAB) (No Representative).

3. NATIONAL OCEAN SERVICE (No Representative):

4. FEEDBACK FROM MDL/OPERATIONAL CENTERS/REGIONS

4a. MDL

- Implementations through September = ECMWF-MOS, GLAMP, GFS MOS station and gridded guidance, ETSS (see NCO notes above)
- Upgrade NAM MOS Regional Operator Equations (code delivery 7/15)
- National Blend of Models Version 1.0 (code delivery 9/10)

4b. NCEP Centers

- Weather Prediction Center (WPC):
 - Implement changes to WPC QPF Issuance Times per NWS Service Change 15-29. The new deadlines will foster increased collaboration with RFCs and WFOs and ensure consistency with WPC Winter Weather Products. The change also adds a new 06/18 UTC "prelim" issuance of Day3 QPF which will allow RFCs and WFOs to more easily view WPC Final Day3 products and make the Day3 products consistent with Day1 and Day2.
 - Start sending the Probabilistic QPF products to the SBN
 - Discontinue the Western Region points product (SHEF output of WPC QPF and freezing level forecasts)
 - All implemented on 7/15/2015

- Storm Prediction Center (SPC):

- National Hurricane Center (NHC):

- Ocean Prediction Center (OPC):

- Aviation Weather Center (AWC-Steve Lack/Ben Schwedler):
 - GTG3 30-day evaluation should start soon, see NCO notes
 - Testing non-SBN (gempak) dataflow into A2, including satellite imagery. Documentation on this process has been drafted.
 - Working on SREF/HIRES Window parallel feedback
 - Gearing up for the summer experiment August 10-21
 - Began coordination with AFS24 and GSD on producing national cloud and visibility guidance via A2-GFE that would then be used at the local WFO level for a first guess for digital aviation services in an effort to promote consistency between the centers and local WFOs. This will be tested during the summer experiment. In addition, coordinating efforts with GSD and EMC on modeling efforts for clouds.

- Climate Prediction Center (CPC):

- Space Weather Prediction Center (SWPC):

4c. NWS Regions

- Pacific Region (PR):
- Alaska Region (AR):
- Western Region (WR)

I was wondering about the status of the next planned upgrade to the RTMA -- the RTMA has proposed some important enhancements for areas with complex terrain.

[Answer: Will use terrain agreed upon by NWS and land/sea mask. Delivered from MDL within 2 weeks.](#)

- Southern Region (SR):
- Central Region (CR):
- Eastern Region (ER):

5. National Water Center

6. NESDIS

7. Offline Discussions

Topic:

Lead:

The next Synergy Meeting is scheduled for Monday, August 31 at 2:30 pm EDT in NCWCP conference room 2890, with remote teleconferencing capability.

Telecon: 1-866-763-1213

Passcode: 524234#