

NCEP Synergy Meeting Highlights: March 30, 2015

This meeting was led by Mark Klein (WPC) and attended by Scott Jacobs (WPC); Steven Earle and Kelly Kempisty (NCO); Dingchen Hou (EMC); Dave Zelinsky (NHC); Israel Jirak, Andy Dean, and Steve Weiss (SPC); Steve Silberberg (AWC); Dave Myrick (MDL); Carven Scott (AR); Jeff Waldstreicher (ER); Greg Patrick and Jack Settelmaier (SR); Andy Edman (WR); Bill Bua (UCAR/COMET); Ed Myers (Office of Coast Survey)

1. NOTES FROM NCO

RTMA/URMA

- Planned implementation - April 14, 2015
- Amended TIN:
http://www.nws.noaa.gov/os/notification/tin15-08rtma_urma_aaa.htm
- Summary of changes:
 - Replace RAP first guess with HRRR+NAMnest blend for CONUS domain
 - Analyze Total Cloud Amount
 - Total Cloud Amount Analysis Uncertainty
 - Analyze Max/MinT
 - File name changes - all detailed in the linked TIN

NAM SMARTINIT

- Addition of Haines index grids to AWIPS II
- Estimated implementation in May

ETSS

- 30-day evaluation re-started Tuesday, March 24, 2015.
- Implementation on or around May 19, 2015
- Summary of changes
 - ETSS station text products for the East Coast and Gulf of Mexico will be delivered 30 minutes later than currently
 - ETSS gridded product for CONUS will also be delivered 30 minutes later than currently
 - Bias corrected total water level guidance will be provided in SHEF format over the SBN/NOAAPort
 - 5km CONUS and 6km Alaska products will be discontinued on the NCEP FTP/NOMADS servers.
 - There will also be directory and file name changes outlined in the upcoming TIN
- TIN: Pending
- **Q: When will ETSS SHEF data be made available on the SBN?**
 - **A1:** Per the current schedule outlined in the upcoming TIN, the

bias-corrected total water level guidance will be provided in SHEF format over the SBN on or around May 19, 2015 (with the model implementation).

PSURGE

- Next test scheduled for April 6
- Full end to end operational test scheduled for April 20
- Planned implementation week of April 20

GEFS retrospective runs are ongoing

- GEFS retrospective data is being populated at para.nomads.ncep.noaa.gov
- Retrospective data is currently available on the server with dates ranging from YYYYMMDD=20130516 through YYYYMMDD=20140530

CFS retrospective data anyone?

Not in ER.

Implementations coming up for Q3

ECMWF-based MOS Station Guidance

- Evaluation planned for mid-April
- Implementation planned for late-May

HWRF and GFDL

- Canned data testing planned for end-April thru mid-May
- Implementation late-May

NHC Guidance Suite

- Planned implementation in early-June

HIRESW

- Evaluation planned for late April
- Implementation planned for mid-June

GEFS

- Code delivery to NCO expected last week of March
- Evaluation planned for late-April
- Implementation planned for mid-June

SREF

- Evaluation planned for early-May
- Implementation planned for mid-June

RTOFS Global

- Evaluation planned for mid-May
- Implementation planned for late-June

AWC Graphical Turbulence Guidance (GTG)

- Evaluation planned for mid-May
- Implementation planned for late-June

2. NOTES FROM EMC

2a. Global Climate and Weather Modeling Branch (GCWMB) (*Representative from GCWMB*):

Dingchen Hou will represent global at the synergy meeting and can address questions about the GEFS implementation.

2b. Mesoscale Modeling Branch (MMB) (*Representative from MMB*)

2c. Marine Modeling and Analysis Branch (MMAB) (*Representative from MMAB*).

RTOFS-Atlantic had its discussion meeting with NCO 10 March

Global Wave Ensembles work for GEFS implementation (meet w. NCO 12 March)

Bogus ice problem fixed March 10th (afternoon)

3. NATIONAL OCEAN SERVICE:

3a. NOS Operational Forecast Systems (OFS) 5 Year Plan - should be available and disseminated in April 2015.

3b. ROMS upgrade - most recent implementation quarterly has implementation scheduled for the first week of FY16Q1

3c. Tested bug fixes and delivered updated code for GLOFS to NCEP in FY15Q2

3d. TIN issued for the addition of ESTOFS Pacific over the SBN and NOAAPORT. Effective June 9, 2015.

4. FEEDBACK FROM MDL/OPERATIONAL CENTERS/REGIONS

4a. MDL

- GFS MOS Station Guidance - Warm Season Refresh - implemented 3/24
- P-Surge (4/28) and ETSS (early May) implementations are underway
- Upcoming:
 - ECMWF-based MOS Station Guidance (00 & 12z cycles) - late May
 - Updates to GFS-based Gridded MOS and changes to GFS MOS COOP and RFC SHEF Messages - late July
 - Gridded LAMP updates to T, Td, Ceiling & Vis + adding Sky Cover and Wind Speed - late July

4b. NCEP Centers

- Weather Prediction Center (WPC):
 - Finishing report for the 2015 Winter Weather Experiment
 - Preparing for the 2015 Flash Flood and Intense Rainfall Experiment in July

- Storm Prediction Center (SPC):
 - HWT Spring Forecasting Experiment (SFE; May 4 - June 5) will be focused on the creation of experimental severe weather hazard outlooks at high temporal resolution (1-hr and 4-hr periods) using guidance from a number of convection-allowing ensemble prediction systems.
 - Would like to finalize SFE participants by the end of March, so if you haven't sent along candidates or expressed interest yet, please do so soon.

- National Hurricane Center (NHC):

- Ocean Prediction Center (OPC):

- Aviation Weather Center (AWC):
 - Collaborative Aviation Weather Statement (CAWS) went live on 3 March available at www.aviationweather.gov/caws, event-driven product tailored to convective weather impact. Similar to MDs but less meteorological and more impact focused for aviation decision makers.
 - Summer Experiment Aug 10-21st focused on 1) ceiling and visibility improvement and probabilistic C&V 2) improving the CAWS for convection, new short-term forecasting and situational awareness fields 3) improving global convective forecasts for aviation esp focus on Gulf and Caribbean. Email steven.a.lack@noaa.gov for

more info, hope to have a formal announcement by first week of April

- Continued work with EMC for ceiling and visibility improvement which has been on hold slightly due to CAWS implementation

- Climate Prediction Center (CPC):
- Space Weather Prediction Center (SWPC):

4c. NWS Regions

- Pacific Region (PR):
- Alaska Region (AR):
- Western Region (WR): No comment -- looking forward to an update on the 30 day RTMA/URMA test and getting ready for the GEFS
- Southern Region (SR): Very glad to see the return of the nomads para machine to aid in data delivery.
- Central Region (CR):
- Eastern Region (ER): Question re: GEFS. Are there any plans to generate BUFR soundings from the GEFS members similar to what is currently done for the SREF? We have had a couple of inquiries from WFOs recently. Dingchen - no plans yet, but thinking about for a future version.

5. Office of Hydrologic Development - with NWS Re-org will be called the National Water Center.

Coverage of Hydrological Ensemble Forecast Service (HEFS) is increasing, i.e. River Forecast Centers adding more forecast locations. HEFS uses NCEP GEFS, CFS, and WPC model forecasts and reforecasts. Related issues:

1. GEFS: looking forward to details of run of current GEFS when new GEFS arrives in ~May
2. CFS: Trying to get precip and min/max temps onto NOAAPort. Completed draft DRG; working on TIN.
3. GEFS reforecasts/model update process - working with Hendrik
4. WPC QPF: Thanks to WPC, as HEFS can now use WPC forecasts

6. NESDIS

7. Offline Discussions

Topic:

Lead:

The next Synergy Meeting is scheduled for Monday, May 4 2015, at 2:30 pm EDT in NCWCP conference room 2890, with remote teleconferencing capability.

Telecon: **1-866-763-1213**

Passcode: **524234#**

GoTo Meeting:

<https://global.gotomeeting.com/join/289367069>