

XEFS Planning Meeting – 14 May 2009

Attendees: Mary Mullusky, Edwin Welles, Hank Herr, Limin Wu, Xuning Tan, Chris Dietz, Julie Demargne, Albrecht Weerts, and Mark Fresch

During the meeting, the main topic was a review of the XEFS Action Item spreadsheet (attached). Here is a summary of the major points of discussion.

XEFS/HEFS HOSIP/OSIP

Mark Fresch explained that OHD had decided the baseline implementation of XEFS, i.e. Hydrologic Ensemble Forecast System (HEFS), will go through HOSIP Gate 1 as an umbrella project called *Implementation of Hydrologic Ensemble Forecast Service (HEFS)*. Under the umbrella project will be sub-projects for the implementation of all the ensemble components (such as the Graphics Generator), and these sub-projects which will go through OSIP and HOSIP. This umbrella project will get a new HOSIP number and close the HOSIP project 2007-019, Experimental Ensemble Forecasting System (XEFS)". Here's the timing of the FY09 HOSIP and OSIP milestones for this and sub-projects which Jon/MarkF will report status through AHPS. There may be other AHPS milestones for these projects.

HEFS Phase 1 Implementation: Pass HOSIP Gate 1, Q3 FY09

Graphics Generator: Pass HOSIP Gate 1, Q3 FY09

Graphics Generator: Pass HOSIP Gate 2, Q4 FY09

Graphics Generator: Pass OSIP combined Gate1/2 Q4 FY09

EPP3 Coding

The EPP3 code to handle the CFS temperature grids is not yet completed as scheduled. Limin said it would be "a few more days" before the coding was completed and tested.

Location Sets – EPP3 Model Adapter

At the last meeting, we discussed that FEWS can provide a location set of time series. The format will be a group of observations (for the location set) followed by a group of forecasts (for the location set). In the last meeting, we confirmed that the BOC EnsPre model adapter needs to be changed to handle this format of location sets from FEWS. In this meeting, we confirmed that the EPP3 Model Adapter will need to be changed.

Field Testing

A few RFCs are participating or interested in participating in EPP3 Field Testing. Rob Hartman is visiting CBRFC to set up EPP3 (off-line and outside of CHPS). DJ is visiting OHRFC to discuss field testing ensemble forecasting. DJ will be asked to update action item X013 with the latest OHD field test plans.

EPP3 Hind-casting

There was a discussion about whether EPP3 can be run in hind-cast mode. At the previous meeting, John Schaake stated that the FEW integrated version of EPP3 can't be run in hind-cast mode because

- 1) there is no (forcings) data available in GRIB1 format and
- 2) the hind-caster tool that provides the needed diagnostic statistics can't be run within FEWS.

The group wondered

- 1) What's the difference between the EPP3 versions (within and outside of FEWS) that makes the GRIB1 data unavailable to the FEW integrated version and
- 2) Why can't the FEWS integrated version of EPP3 be changed to run in hind-cast mode?

This will be discussed at an XEFS Planning Meeting in early June (after the EPP3 code to handle temperature grids has been completed).

FEWS configuration files for EPP3

Some developers thought it would be a good idea for the FEWS configuration files (to do grid ingest) that are specifically for EPP3 to become part of the baseline so that they would automatically be available for future testing. Edwin explained that Deltares doesn't own or deliver configuration files as part of the FEW base-line and those files can be different for each RFC. As a result, Albrecht will deliver the configuration files to Hank who will deliver them to interested RFCs, especially Art Henkel at CNRFC.

Graphics Generator

Requirements development for Phase 2 of the Graphics Generator has started and is due to complete in July. The writing of the requirements is largely including the display and control of deterministic information. The Phase 2 will include those deterministic requirements and enhancements to ensemble display and control information. Mark Fresch is deferring the writing of requirements for an external Graphics Generator since the need for those requirements may be overcome by the RFCs desire to have CHPS run outside of AWIPS.

A design review for the Graphics Generator will be held May 28th; all RFCs were invited and told of the technical nature of the review. The CAT Call that day was canceled to accommodate a meeting time so that folks in Holland and US West Coast could attending during working hour.

Deltares is going to send use cases for the Interactive Forecast Display (IFD) to Hank for potential use in testing the Graphic Generator.

Ensemble Verification System (EVS)

HEP is working towards presenting mock-up verification displays at the next CAT Implementation Workshop 24-26 June. HEP was planning on getting preparation help in person from Peter G, of Deltares. However, Edwin said Peter G. is too busy to help in person, but he will still provide support via email. Edwin asked

Julie to first try to get help from Yuqiong and advised to start now since working with Peter via email will take longer.

Mark Fresch