

XEFS Planning Meeting – 07 May 2009

Attendees: Rob Hartman, Mary Mullusky, DJ Seo, Hank Herr, Limin Wu, Xuning Tan, John Schaake, Albrecht Weerts, and Mark Fresch

EPP3 was a major topic of the meeting. Mark identified three types of testing for EPP3: 1) unit testing of EPP3 modules, 2) integration testing of EPP3 and the two model adapters into CHPS, and 3) independent scientific validation of EPP3. We did not discuss the third type of testing.

For the first type of testing, John Schaake said that parts of the EPP3 code (such as the GFS handling) have been well tested and in use for years but that other parts (such as the CFS handling) needs further testing. Also, DJ said that time stamping need to be tested.

For the second type of testing, Hank will be focal point, and has drafted a test plan. The draft plan had been provided to most of the team, and John provided positive feedback. Since this testing will include various groups, Hank was assigned to keep close track of testing progress and provide monthly written updates.

For both types of testing, the group agreed testing needs to be done with a fair number of basins and scenarios. Mark asked for the group to make a list of test scenarios, including common or critical events. Rob added that he'll be able to test EPP3 now that the off-line version (i.e. not integrated into CHPS) is running at CNRFC.

John said he's not sure whether EPP3 (integrated with CHPS) will be able to run in hind-cast mode. The EPP3 hind-casting uses the historical gfs and cfs hind-casts starting as well as historical data. John explained these forecasts are not ingested by FEWS, at this time, but this functionality eventually should be integrated into FEWS but this will take some planning. This test should be added to the test plan (see Action X086).

There was some discussion of the content of the test plan, especially the five test items. Regarding test item #1 (CHPS must generate grids that contain the same information as EPP3 would acquire given the same input GRIB1 data files), Albrecht said he'd send the FEWS GRIB1 ingester to Hank who will pass it along to John. Regarding test item #5, (Full integration testing must be performed with its output validated against output generated by executing EPP3 outside of CHPS. Integration testing will include both model adapters in a workflow started from within CHPS using data contained within its database.), DJ said HEP needs to set up the test basins at OHD to provide independent testing of EPP3.

Albrecht wondered when will the FEW configuration files for GRIB1 ingest become part of the baseline. Mark will look into this (see Action X087).

Mark Fresch