

## **MRED Teleconference 17 February 2009**

Participants: Chris Anderson, Ray Arritt (host), Mike Ek, Bill Gutowski, Henry Juang, Masao Kanamitsu, Ruby Leung, Xin-Zhong Liang, Lixin Lu, Jack Ritchie, Siegfried Schubert, Gene Takle, Yongkang Xue

The call focused on three main topics: current status for each group, data adherence to output specifications, and status of the global model output

### Status of each group

Chris Anderson (WRF-NMM, MM5) – Downloaded and successfully ran the 2002 test case for WRF-NMM and MM5. Working on postprocessing routines for the output from each model.

Lixin Lu (RAMS) – Using new version 6.0 of RAMS. The 2002 test case was run and output sent to UCSD. Added surface and subsurface runoff. Currently implementing spectral nudging and testing some other parameterizations.

M. Kanamitsu (ECPC RSM) – Successfully used the . Still working on final configuration for the production runs. Computer resources may be a problem for the production runs.

Y. Xue (Eta) – Finished the test run and compared to observations. Submitted output to UCSD and Jack helped with some formatting issues. Currently testing the model configuration (including three-layer snow model).

X.-Z. Liang (CWRF) – Finished the CFS test case and submitted output to UCSD. Mentioned some problems with soil moisture from the NASA model, such as not being clear what layer the soil moisture applies to. (Note this is a different version from the NASA model that will be used in the project, which is still under development.)

Ruby Leung (WRF-ARW) – Successfully ran the CFS test case. Now working on output formatting.

Henry Juang (NCEP WRF) – Has run with mean bias correction and submitted output to UCSD.

*Summary:* All groups have successfully run the CFS test case. Several have submitted output samples; the rest are working on postprocessing to adhere to MRED output standards and expect to submit their output within a couple of weeks. Groups also are refining their model configurations in preparation for the production runs.

### Adherence to output specifications

Jack Ritchie reported on his checks of each group's data sample. So far, he has received conforming data from Eta, RAMS, CWRF, and ECPC RSM. He has set up scripts so that it is

fairly easy for him to check the data. There have been no serious pitfalls, just some questions about singleton variables and time bounds for time-average variables.

#### Status of global model data

Henry Juang says that NCEP has finished the CFS runs but the problem at the moment is that there is no place to put the data. They have purchased a server and are setting it up. He estimates the server likely will be ready within a month or two.

Siegfried Schubert reported that NASA still is tuning their new coupled model but that they are running an intermediate version, doing 6-months hindcasts every day from 1980-2005. This should be done within a few weeks. They now are saving 12-hourly data. Ray Arritt will get in touch with him on the variables to be saved and frequency (which should be 6 hourly).

#### Other discussions

Masao Kanamitsu asked if the CFS data could be processed into the same format as the regional model output in order to make comparisons simpler to do. This would include interpolation to the MRED analysis grid. Henry said that his group could do this.

Some discussion followed on interpolation of soil variables, mainly near land-water boundaries. X.-Z. Liang pointed out that this may produce some spurious values. Yongkang Xue suggested that water points be excluded and Ray Arritt suggested that water points be replaced with a missing value flag.

#### Next conference call

The next conference call likely will be during late March. By this time all groups expect to have submitted their sample output, and NCEP may have their server available. At that time we will have final discussions before each group begins the production runs.