

### 2.3 The Air Force weather ensemble prediction suite

**Evan Kuchera**, Scott Rentschler, Glenn Creighton, and Jeff Hamilton, *Air Force Weather Agency* The Rapid Refresh (or RAP) is an hourly assimilation / forecast system that replaced the old Rapid Update Cycle at the National Centers for Environmental Prediction of the US National Weather Service in May 2012. The purpose of this talk is to report on ongoing work toward an upgraded version of the RAP that is scheduled to go into NCEP operations prior to the 2014 WRF Workshop.

The latest information about the Air Force Weather Ensemble Prediction Suite will be presented. Details will be given about operational setup and findings from recent testing, efforts to implement algorithms that account for sub-grid scale uncertainty, efforts to develop a WRF framework for tailored model diagnostics, and efforts to exploit the data for decision making.