



WRFDA 2012 Overview

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WRFDA - the Weather Research and Forecasting (WRF) Data Assimilation system is a component of the WRF modeling system developed at the National Center for Atmospheric Research. WRFDA is an advanced data assimilation system, contained with the WRF software that provides state-of-art 3D/4D variational (3D/4D-Var) and variational/ensemble hybrid techniques (Barker et al. 2004; Huang et al. 2009; Wang et al. 2008). WRFDA is used in both applied and research settings. It is used as the analysis component of several international operational data assimilation systems (e.g. AFWA, CWB, KMA, BMB, UAE). It is also used by operational centers, as well as by universities and research institutions, for data assimilation research.

WRFDA is a community data assimilation asset. NCAR maintains and develops the WRFDA website [<http://www.mmm.ucar.edu/wrf/users/wrfda>], where community users can browse, or download WRFDA documentation, tutorials and test data; participate in user forums and obtain the latest code.

In this presentation, I will give a brief description of the current WRFDA status and present a recent WRFDA adjoint-based observation impact study.