

### **1.3 WRF-Chem V3.7: A summary of status and updates**

**Grell, Georg**, *National Oceanic and Atmospheric Administration*

We will describe recent updates as well as ongoing work as part of the Weather Research and Forecasting (WRF) model as it is coupled with chemistry. WRF-Chem V3.7 includes new additional features such as new aqueous phase chemistry options, and new chemistry packages. New links to meteorological physics parameterizations have also been added to expand capabilities to simulate the aerosol direct and indirect effects. Other new features include an improved high resolution emissions data set for the global emissions preprocessor. Ongoing work is related to using Fire Radiative Power (FRP) as input for the fire emissions preprocessor and the plumerise model. An overview of the current status of this modeling system and ongoing as well as future development will be discussed. In addition some evaluation results will be presented.