The WG meeting was held jointly with the Land, Biogeochemistry and Societal Dimension Working groups. Our specific agenda focused on the progress made since the June 2011 workshop on addressing specific modeling needs and model evaluation. In particular, we discussed recent progress in 1) implementing in CLM the newest representation of biogenic emissions, 2) coupling chemistry to MAM3 and 3) assess the model performance through new diagnostics (such as presented in the CAM-chem documentation paper Lamarque, J.-F et al.: CAM-chem: description and evaluation of interactive atmospheric chemistry in the Community Earth System Model, Geosci. Model Dev., 5, 369-411, doi:10.5194/gmd-5-369-2012, 2012).

The next phase of modeled development will focus on 1) using the stomatal resistance from CLM in the dry deposition scheme (already implemented in CLM) 2) provide the capability of running chemistry in SCAM (or alternatively build a box-model version of the chemistry in CESM) and 3) implement the FAST-J photolysis code (under external DOE funding).

Other issues to be tackled include studying the importance of vertical resolution and model top, including the possibility of keeping the vertical extent of WACCM but removing mesospheric and ionospheric processes to save computing time. Performance (scientific and computational) of chemistry in the SE dynamical core will also be studied with the next year.

On the other hand, it has been decided there is no interest from the WG community to develop a low resolution FV configuration with chemistry.