**Updates on the Dynamical Core Model Intercomparison Project (DCMIP)**

Christiane Jablonowski and James Kent (University of Michigan)
Paul A. Ullrich (University of California, Davis),
Kevin A. Reed, Peter H. Lauritzen and Ram D. Nair (NCAR)
Mark A. Taylor (Sandia National Laboratories)

In August 2012, over 16 modeling groups participated in the Dynamical Core Model Intercomparison Project (DCMIP) that was held at NCAR. The aims of DCMIP are (1) to assess and intercompare the numerical and physical characteristics of new and already established dynamical cores, (2) to introduce and evaluate a hierarchy of test cases for dry and idealized moist flow fields, and (3) to prototype the use of shared virtual workspaces. Special attention was paid to emerging non-hydrostatic approaches and non-traditional computational grids. We will review the current status of DCMIP, discuss the strengths and weaknesses of the DCMIP test case suite, and propose future activities.