Some preliminary results from Global SAM

Marat Khairoutdinov (marat.khairoutdinov@stonybrook.edu)
School of Marine and Atmospheric Sciences, Stony Brook University

A new version of the System for Atmospheric Modeling extended to the latitude-longitude grid will be introduced. The model features an anelastic dynamical core, which is unusual for a global model. The results of several standard dynamical-core tests, such as Jablonowsi's hydrostatic and baroclinic instability test as well as the Held and Suares' dry test among others will be shown. Some results from a recent DYAMOND GCRM intercomparison as well as some preliminary results of using GSAM for hurricane prediction will be discussed