☐ SCM Testbed: applications, additions, improvements
☐ SCM experiment design, ensemble forcings, case vs. long term (use of nudging, periodic reinitialization)
☐ Evaluation/Intercomparison strategies
Parameter sensitivity study, other models, which fundamental quantities must be included in the metric?
☐ Scale analysis
☐ Convective/stratiform partitioning
☐ Others?

Fast Physics Testbed for the FASTER Project Web-based SCM-Testbed, http://www.bnl.gov/esm



New parameterizations Documentation Code Browser Select a model Specifics User modules for CAM Dev: C:\Documents and S Select physics schemes Browse... Upload&Build More model options Regime-based simulations New analysis products Select forcing data O IOP O Continuous Forcing O Ensemble Forcing O Regime O User data C: Documents and Setti Browse... Upload Select the starting time Select the ending time Select case of interest 2009-06-01 00:00:00 2009-06-01 00:00:00 2009-06-01 00:20:00 2009-06-01 00:20:00 2009-06-01 00:40:00 2009-06-01 00:40:00 2009-06-01 01:00:00 2009-06-01 01:00:00 2009-06-01 01:20:00 2009-06-01 01:20:00 2009-06-01 01:40:00 2009-06-01 01:40:00

- Forcing options
- Simulation options
- Summary of SCM experiment settings

Interactive simulation and evaluation/visualization

Start SCM Experiment

00:00:19

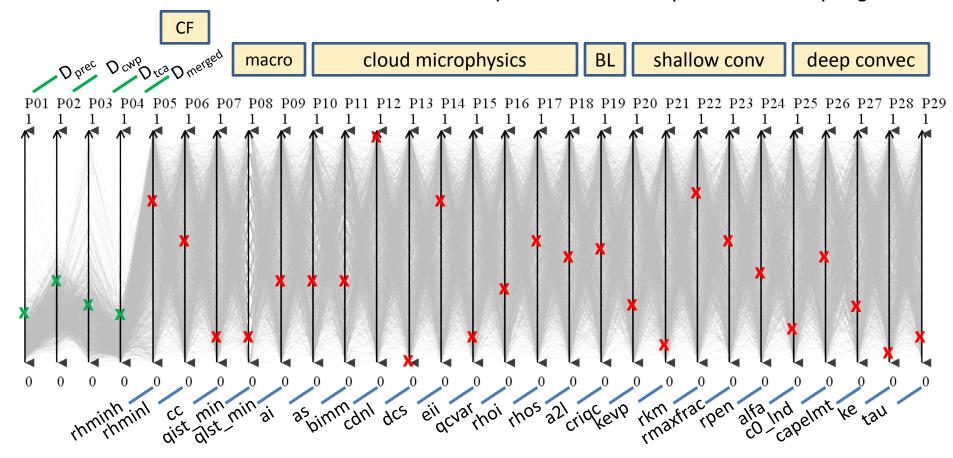


2009-06-02 09:00:00



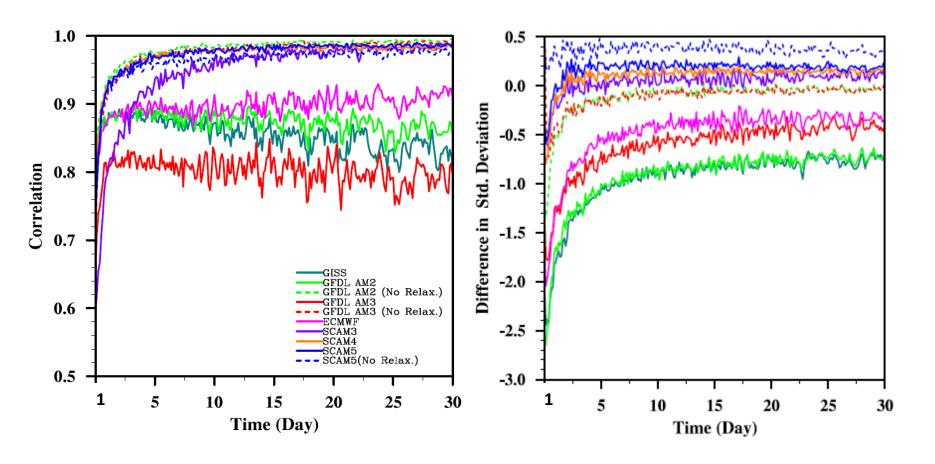
Parallel coordinate view of 1024 realizations,

with quasi Monte Carlo parameter sampling



X The default values

What is optimal time scale for effective evaluation of long-term simulations?



Convective/stratiform partitioning (cloud and precipitation)

have been directly and exclusively based on what model convective and large-scale cloud parameterization tell us.

Is it meaningful to shift to sub-column sampling, use sub-column thermodynamic and hydrometeor profiles to compute radar reflectivity, classify as NSSL's NMQ (National Mosaic & Multi-sensor QPE) does then evaluate against similar radar products

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