

## **LASSO Expansion Plans: Deep Convection During CACTI**

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The Large-Eddy Simulation (LES) ARM Symbiotic Simulation and Observation (LASSO) activity is growing to include simulations of deep convection in addition to the shallow-convection LES runs currently available. The new scenario will focus on deep convection during the CACTI field campaign in Argentina with a primary focus on convective initiation and upscale growth. As such, the simulations will be much more ambitious than the current shallow convection LES runs.

After a short update on the status of the current, shallow-convection scenario, the primary focus of this breakout will be to share the current plans for the new LASSO scenario and get community feedback to refine the path forward. Of particular importance will be a discussion of the science drivers, as these guide both the model configuration to be used along with how the observations will be employed within the LASSO data bundles. Potential model configurations and outputs will be discussed. We also seek to engage those involved with the CACTI observation data sets to evaluate options for how to best use the available measurements.

### **Detailed Session Agenda (Times in EDT)**

- 2:00 Overview and Annual LASSO Update (William Gustafson)
- 2:15 Background on the CACTI Field Campaign (Adam Varble)
- 2:35 Motivations and Goals of the New LASSO CACTI Scenario (William Gustafson)
- 2:50 Observational Data and Skill Scores for the CACTI Scenario (Andrew Vogelmann)
- 3:15 Current Thinking for the CACTI Scenario Framework and Model Setup (William Gustafson)
- 3:40 Open Discussion about LASSO