



### Introduction

This poster presents new additions, updates and future plans for the cloud modeling Value Added Products (VAPs) being developed by the Lawrence Livermore National Laboratory (LLNL) ARM Infrastructure team.

These include:

- the ARM showcase Climate Modeling Best Estimate (CMBE) for SGP.C1,
- 2. the large-scale forcing datasets
- MC3E IOP (22 Apr 25 May 2011)
- AMF China (1 Nov 30 Nov 2008)
- 3. the ARM Cloud Retrieval Ensemble Dataset (ACRED).

## **MC3E Multiscale Forcing**

The multiscale-domain forcing data was developed over the 3 analysis domains centered at central facility with a diameter of **300 km** (standard SGP forcing domain size), **150 km** and **75 km**, to support modeling studies on various-scale convective systems



# **AMF China Ensemble Forcing**

The ensemble forcing data was developed based on observations by AMF at ShouXian China. To address the uncertainties in precipitation measurements, an ensemble of precipitation rates are developed based on one surface rain gauge data and 3-hourly TRMM satellite Data. AMF China, ShouXian



http://iop.archive.arm.gov/arm-iop/0eval-data/xie/scm-forcing/iop at hfe/

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• New variables:

- impact of clouds,
- we always recommend to use.
- water path, precipitable water.

