Open Science in ARM: Connecting State-of-the-Art Models with Diverse Field Campaign Observations Schedule

This is a summary of the agenda to be used for the AMS short course.

Activity/Method	**Content Description**	**Estimated Time**
Welcome and Getting Started	Overview of the content for the day	15 min
Overview of ARM	An introduction to the Atmospheric Radiation user facility.	15 min
CACTI Field Campaign Overview	Overview of the campaign and the datasets collected.	30 min
Accessing ARM Data + Compute	Introduction to the ARM data workbench and how to access data from field campaigns	30 min
BREAK	Coffee break	15 min
Radar Data with Py-ART	How to work with the Python ARM Radar Toolkit (Py-ART), using data from CACTI	45 min

Surface observations with ACT	How to use the Atmospheric Observation Community Toolkit (ACT) with ARM field campaign observations	45 min
LUNCH		1 hr
COMBLE Campaign + Simulations	Overview of the COMBLE field campaign and the simulation datasets from the COMBLE-MIP project	45 min
Comparing Models with Observations: COMBLE	Introduction to Earth Model Column Collaboratory (ECM2) package how it can be used to compare observations and simulation data	45 min
Comparing Models with Observations: CACTI	How to scale your analysis to work with petabyte-scale datasets from CACTI	45 min
Closing	Final reflections	15 minutes