

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 |

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| 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 |