

Jim Mather
Technical Director
ARM Climate Research Facility





- Program Goals, Mission, and Objective
- The Organization
- Interactions and Process
- Key Contacts
- Closing Points and Questions





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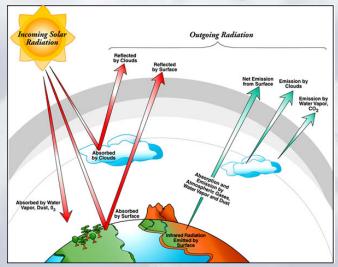
Infrastructure Overview Program Goals

Provide the infrastructure at both fixed and mobile sites to meet the Atmospheric Radiation Measurement (ARM) Climate Research Facility (ACRF) mission and ARM science goals

Primary ARM Science Goal

To improve climate models by developing and testing improved representation of cloud and radiative processes



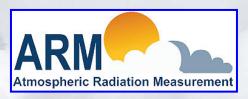




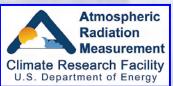


Infrastructure Overview ARM and ACRF

- The ARM Program has two separately funded components
 - ARM science for grant funded science and research



• ACRF is the "Infrastructure"—a designated DOE Office of Science National User Facility



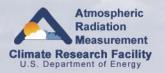




Infrastructure Overview ARM Climate Research Facility Mission

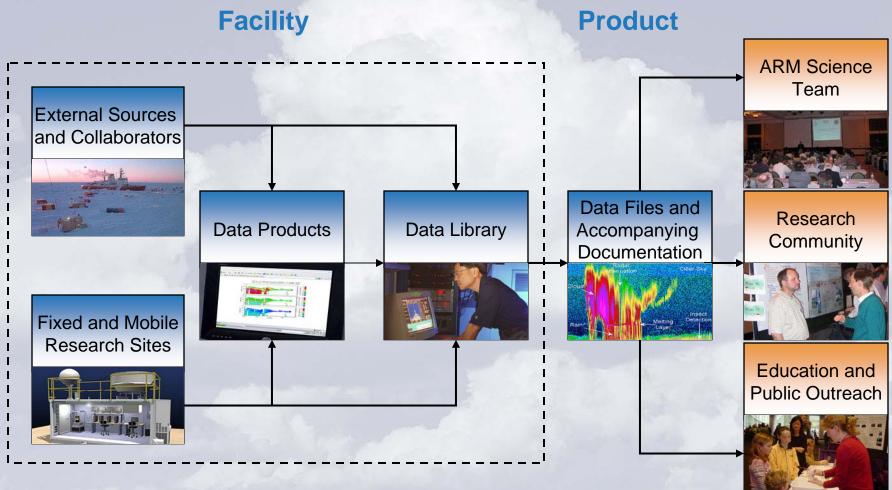
- Provide the national and international scientific community with the infrastructure needed for scientific research on global change
- Global change research includes the study of alterations to climate, land productivity, oceans, water cycle, atmospheric chemistry, and ecological systems

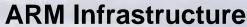






Infrastructure Overview ARM Climate Research Facility Concept









Infrastructure Overview Infrastructure Objectives

- Manage and operate the ARM Climate Research
 Facility—a DOE Office of Science designated national user facility
- Improve and advance the efficiency and sustainability of our management, engineering, operations, and data usability processes







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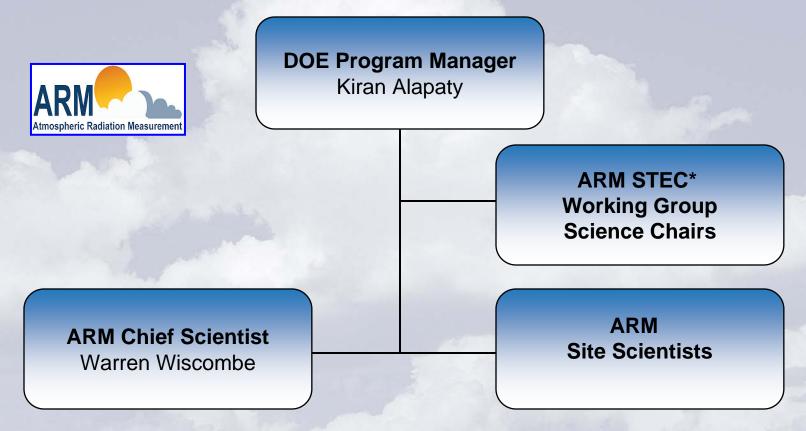
Infrastructure Overview Our Organization

- DOE, multi-laboratory program; technical leadership activities conducted from:
 - Argonne National Laboratory (ANL)
 - Oak Ridge National Laboratory (ORNL)
 - Pacific Northwest National Laboratory (PNNL)
 - Brookhaven National Laboratory (BNL)
 - Lawrence Livermore National Laboratory (LLNL)
 - Sandia National Laboratories (SNL)
 - Los Alamos National Laboratory (LANL)
 - Lawrence Berkeley National Laboratory (LBL)
 - National Renewable Energy Laboratory (NREL)
- DOE Office of Science program management works with the climate research community to establish our agenda





Infrastructure Overview ARM Science Management

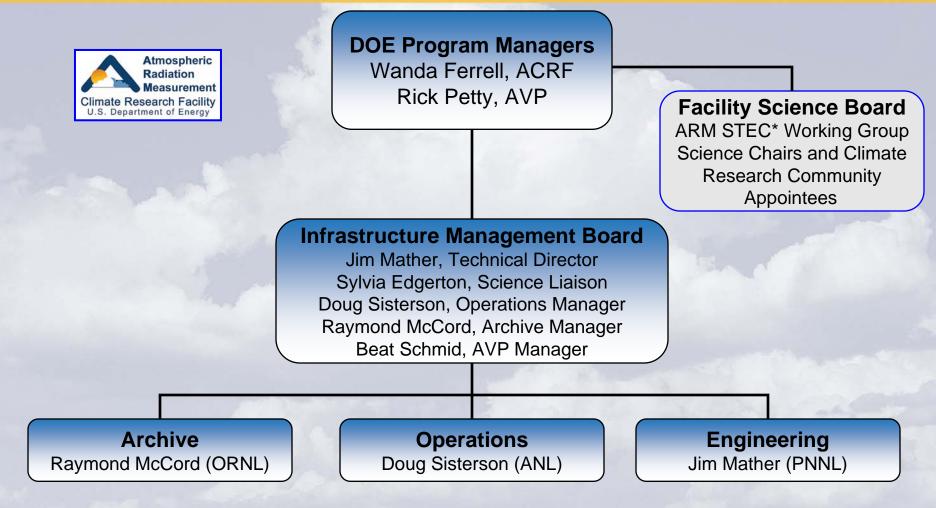


^{*} STEC - Science Team Executive Committee





Infrastructure Overview ACRF Management







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- Actions of the infrastructure are driven by the science and research needs
- The main components of the infrastructure are engineering, operations, and the archive

Engineering:

- Instrumentation
- Computing and Networks
- Data Quality
- Value Added Processing

Operations:

- Research Sites
- Instruments
- Data Processing
- Safety

Archive:

- Data Storage
- Data Delivery





- You can help us evolve and improve
- By providing feedback as you interact with ARM products, research sites, and processes

Science Working Groups:

- Measurements and Instrumentation
- Field Campaigns
- Value Added Products
- Tools and Applications

ARM Website:

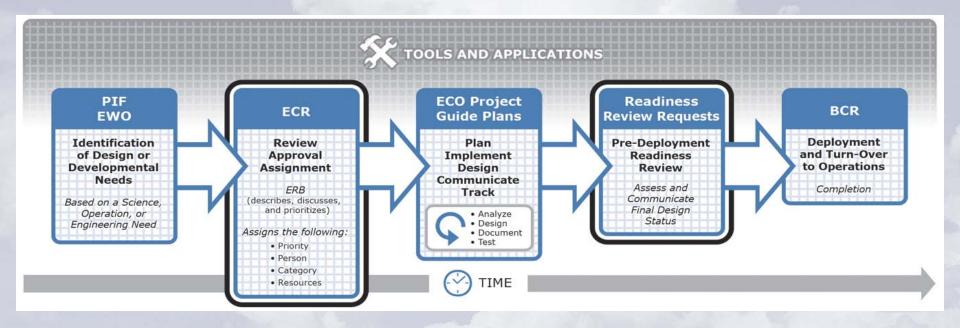
- Measurement Performance
- Data Quality
- Engineering/Operations Processes
- Information Content





Engineering and Operational Processes

"Transform ideas into new products"



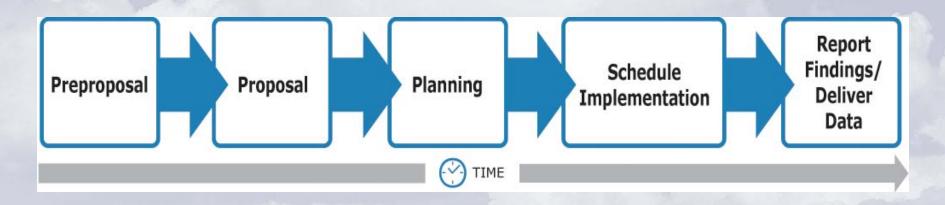
"www.arm.gov/acrf/capabilities.stm"





Field Campaign and Intensive Operational Period Processes

"Augment routine data acquisition and test new measurement technologies"



"www.arm.gov/science/fc.stm"





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Infrastructure Overview Key Contacts

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| Jennifer Comstock | Lead Science Translator | jennifer.comstock@pnl.gov | 509.372.4244 |







Infrastructure Overview Closing Points

- Your feedback is important to us!
- Because you provide feedback—we have more opportunities to improve
- The ARM Website is a valuable information resource: "www.arm.gov"
- Please call or send e-mail if you have any questions





Infrastructure Overview

Thank You

Questions?



