Collecting and Delivering the Data

As a general condition for use of the ARM Climate Research Facility, users are required to include their data in the ARM Data Archive. All data acquired must be of sufficient quality to be useful and must be documented such that users will be able to clearly understand the meaning and organization of the data. Final, quality-assured data sets are stored in the Data Archive and are freely accessible to the general scientific community.

Upon conclusion of the field campaign, the lead scientist is required to provide a final **"findings" report** and final **data products**. The final data are formatted and delivered to the ARM Data Archive through the External Data Center (XDC). Quality-assured data should be released to the XDC within 6 months from the completion of the field campaign.

To aid in the data delivery and metadata submission process, a Data Product and Registration Tool is available at ***http://www.arm.gov/data/ome***. This tool gathers metadata information including instrument information, key measurements, authors, spatial information, data quality, and descriptions of tools and data use constraints. Also included is the capability to upload data, either upon metadata entry or at a future point in time. Data should be uploaded in either zip or tar archive format. For more information about submitting your data, see ***http://www.arm.gov/campaigns/expectations***.

Giving Credit

Data delivered to the ARM Data Archive via the XDC are considered publishable. The source of any data should be clearly recognized as either a co-author or through an appropriate acknowledgement. Users are cautioned to confirm the data version with the originator before publication. Points of contact can be found in the README files and on the field campaign website. The XDC and ARM Data Archive will document data versions and ensure that the latest data versions are made available to data recipients. Data usage and users are also tracked and can be provided to data submitters upon request. ARM should be acknowledged in publications as the programmatic origin of the field campaign. Publications resulting from collaborative efforts in which ARM data or facilities are used should appropriately acknowledge the cooperation or collaboration.

Accessing Data

Field campaign data complement the routine data collected continuously from ARM sites. Users can order data after registering for a free ARM Data Archive account. Field campaign data can be accessed by browsing the summary table at ***http://www.arm.gov/data/campaigns***, or visit the ARM Data Discovery Tool at ***http://www.archive.arm.gov/discovery***. Data for specific instruments and measurements can also be ordered through the ARM Data Archive.

Contact Information

Technical Coordination Office
www.arm.gov
www@arm.gov
509-375-2111

Data Archive
www.archive.arm.gov
info@arm.gov
1-888-ARM-DATA

U.S. DEPARTMENT OF ENERGY | Office of Science

ARM

CLIMATE RESEARCH FACILITY

Proposing a Field Campaign

A U.S. Department of Energy Scientific User Facility

DOE/SC-ARM-09-024 April 2016

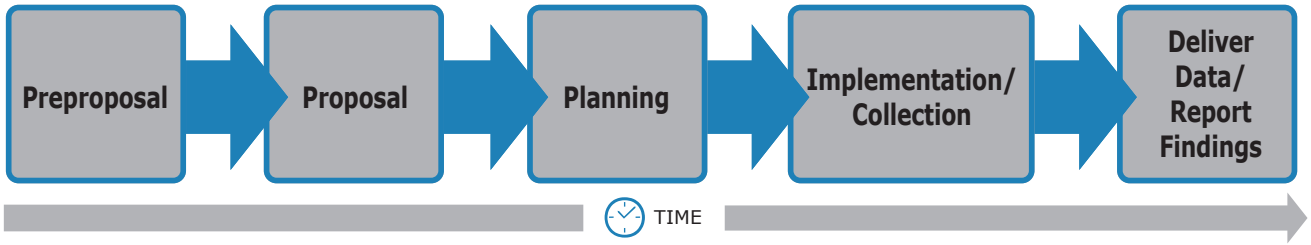
Field Campaigns at the ARM Climate Research Facility

As a scientific user facility with fixed and mobile capabilities across the globe, the ARM Climate Research Facility regularly supports field campaigns to augment routine data acquisitions and to test and validate new instruments. Three primary locations representing a range of climate conditions—U.S. Great Plains, Alaskan North Slope, and the Azores—host heavily instrumented sites that gather massive amounts of climate data. These sites, along with the ARM mobile facilities and ARM Aerial Facility, are collectively referred to as the ARM Facility.

While ARM does not provide direct funding for scientific research, small amounts of funding may be provided to assist with logistics, the development and archiving of datastreams, and other infrastructure activities associated with using the ARM Facility. Users are not charged any fees for taking advantage of the infrastructure of ARM field sites, instruments, and data systems.

ARM Mission Statement

The ARM Climate Research Facility, a DOE scientific user facility, provides the climate research community with strategically located in situ and remote sensing observatories designed to improve the understanding and representation, in climate and earth system models, of clouds and aerosols as well as their interactions and coupling with the Earth's surface.



In lieu of costs, users are expected to acknowledge ARM support in publications, as appropriate, and to share the field campaign data collected.

Submitting Proposals

Proposals are welcome from all members of the scientific community for conducting field campaigns using the ARM Facility. Proposed research should be relevant to ARM's mission.

The first step in proposing a field campaign is to submit a preproposal, a short summary of the proposed campaign. Preproposals should contain enough information about the proposed campaign that it can undergo a preliminary feasibility and science review. Users can submit a preproposal through the ARM website at ***http://www.arm.gov/campaigns/propose***.

For large and complex field campaigns (such as those involving a mobile or aerial facility or multiple funding organizations), requests for preproposals are announced in journals in the fall of each year. Preproposals are due February 1 for these campaigns, with invited full proposals due May 1. Requests for less complex field campaigns are reviewed on a quarterly basis for approval.

Selecting Field Campaigns

After submission, preproposals are reviewed by the Infrastructure Management Board and classified according to costs and complexity. Some preproposals are accepted without further requirements, while others are invited to submit a full or abbreviated proposal, depending on complexity.

Proposals are reviewed based on scientific merit, relevance to ARM's mission, and the feasibility and costs associated with using the ARM Facility. Investigators should demonstrate that they have research funding or have submitted proposals to their prospective funding agencies because ARM provides the use of facility resources for campaigns, but does not provide research funding.

Users are encouraged to share their field campaign ideas with peers and colleagues prior to submitting them. Collaborative efforts can strengthen field campaign proposals.

Planning and Executing

After a field campaign has been approved, the lead scientist is responsible for several deliverables before and after the campaign. For more information about expectations for campaign implementation, see ***http://www.arm.gov/campaigns/expectations***. Examples of accepted science plans can be provided upon request.