



# ARM Operations

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# ARM Operations



CRG

BNF S3 CSAPR



BNF S4 KaX SACR



BNF S10 Tower

SGP GIF



BNF GIF

CKG



NSA



ENA



# ARM Mentors & Engagement

- Please look for ARM infrastructure staff posters
- Thursday session – advancements in instrumentation
- Co-organizers & participants in many sessions



- Using new and improving tools to capture everything important to instrument operation
- Engage with mentors to learn details & nuances of instrument operations & measurement techniques

- Acknowledge work through DOIs

Calibration Details
Collapse

Fields marked with \* are required.

<p>ARMID: 26164; IRT Sensor 9454</p> <p>Serial Number: 9454</p> <p>Calibration Equipment: x</p> <p>Location: * PNNL AML</p> <p>Start Date/Time: * 06/05/2024 02:10 PM ✓</p> <p>Data Affected Start: No date/time selected</p>	<p>Plan Name: [Empty]</p> <p>Calibration Type: Calibration Check</p> <p>Performed By: * Joshua Howie (15618) ✓</p> <p>End Date/Time: 06/05/2024 02:15 PM</p> <p>Data Affected End: No date/time selected</p>
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Procedure:

Requirements: Currently data must be collected via a logger and computer to view output. Unit should be shipped back to PNNL if doing this check.

1. Setup
  - a. Align the axis of the lens with the center of the black target area.
  - b. Distance between the IRT and the Palmer-Wahl target surface is determined by ensuring the field of view of the IRT only sees the black target. The Apogee SI-421 IRT should be within 4 inches of target RR.

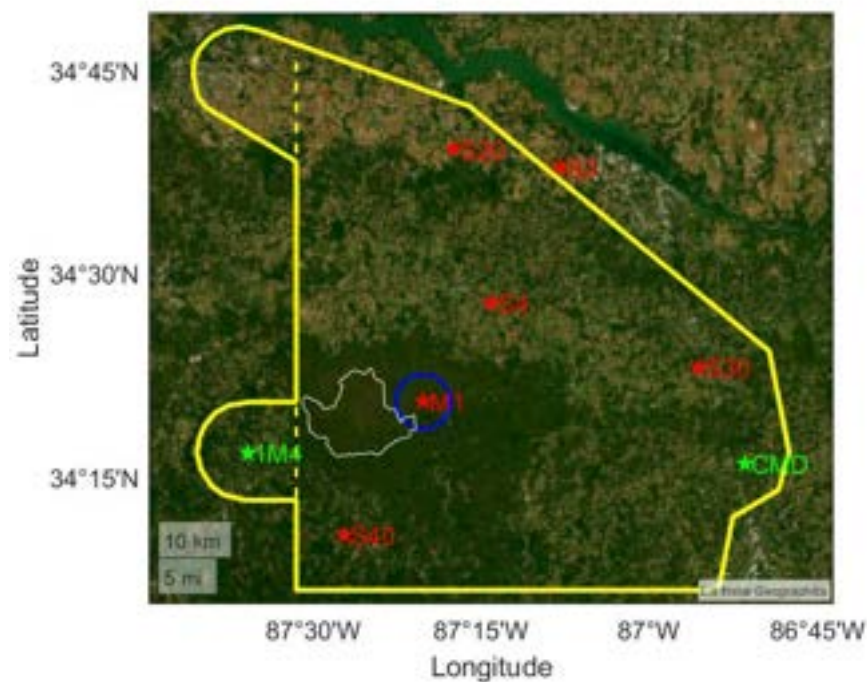
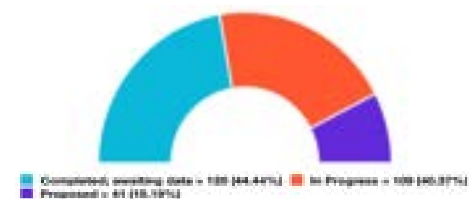
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# ARM Field Campaign Support

## BNF

- New measurement opportunities in and associated with forest site
- ARM summer school coming in May 2025
- Modelers – new methodologies to upscale observations to models
- TBS flights & Arcticshark flights
- New observations and techniques – look and use now! Provide feedback!



# Types of Field Campaigns

- Year-round submission
  - Guest instruments at fixed or long-term sites
  - Modification or focused periods
  - Coordination with external field campaigns
  - High-performance computing cluster



# Types of Field Campaigns



## ■ Specific calls

- ARM Mobile Facility
- ARM Aerial Facility
- ARM-EMSL FICUS



**Call for FICUS Research Proposals with ARM and EMSL, [Closed] FY 2024**

### Timeline

- February 9, 2023  
**Letters of intent due**
- February 22, 2023  
**Invitation of proposals**
- March 23, 2023  
**Full proposals due**
- July 31, 2023  
**Decision notices sent**
- October 1, 2023**  
**Projects start**

The [Atmospheric Radiation Measurement \(ARM\)](#) user facility and Environmental Molecular Sciences Laboratory (EMSL) are seeking collaborative research applications through the Facilities Integrating Collaborations for User Science (FICUS) program. The FICUS program was established in 2014 to encourage and enable ambitious research projects, capabilities of multiple user facilities.

# ARM Field Campaign (AFC)

New Page Same Content  
Arcticshark Call Open

Ask Us -> Help

## Keys to Success

- Submit on time
- Read the instructions
- Respond timely
- Submit final report
- Submit guest data

The screenshot shows the ARM website interface. A 'Contact Us' modal is open, displaying a search bar with the text 'need help with ...'. Below the search bar is a list of categories: 'Campaigns and Accessing ARM Facilities', 'Finding ARM Data', 'Instruments and VAPs', 'Report Data Quality Issues', 'ARM Website and Communications', 'ARM User Account', and 'Other'. A 'SEND MESSAGE' button is at the bottom of the modal. In the background, a 'RESOURCES' section is highlighted with a red border, containing a list of links: 'Proposal Deadlines Calendar', 'Field Campaign Guidelines', 'Expectations for Principal Investigators', 'Campaign Process', 'Propose a Field Campaign', 'ARM Mission', 'DOE BER Program Strategic Goals', and 'GEWEX Project Website'. At the bottom of the page, a navigation menu includes 'ARM USER PROFILE', 'DATA', 'ABOUT', and 'RESOURCES'. The 'HELP' link under 'RESOURCES' is highlighted with a red box. A blue line connects this 'HELP' link to the 'Contact Us' modal.