

# FY23 Radar Plan

## Background

- ▶ ARM has 32 Radars with 24 that are deployed or could be deployed in the field at any given time
- ▶ It is not feasible to fully maintain these systems and produce high-quality datasets for them at all times so ARM establishes priorities each fiscal year to ensure we are appropriately managing activities

## Planned FY23 FTE

	FTE Planned	FTE Available
Engineering Efforts	4.92	5
Data Efforts	3.25	3.25

### ► Data Mentor Team

- 1 hire in FY23 (0.5 FTE already included in the FY23 estimates)

# Primary Activities

## ► KAZR Operations (All Sites)

FTE: 1.09

Continuous

- KAZR Routine Operations/Maintenance/Repair
- KAZR Data Operations

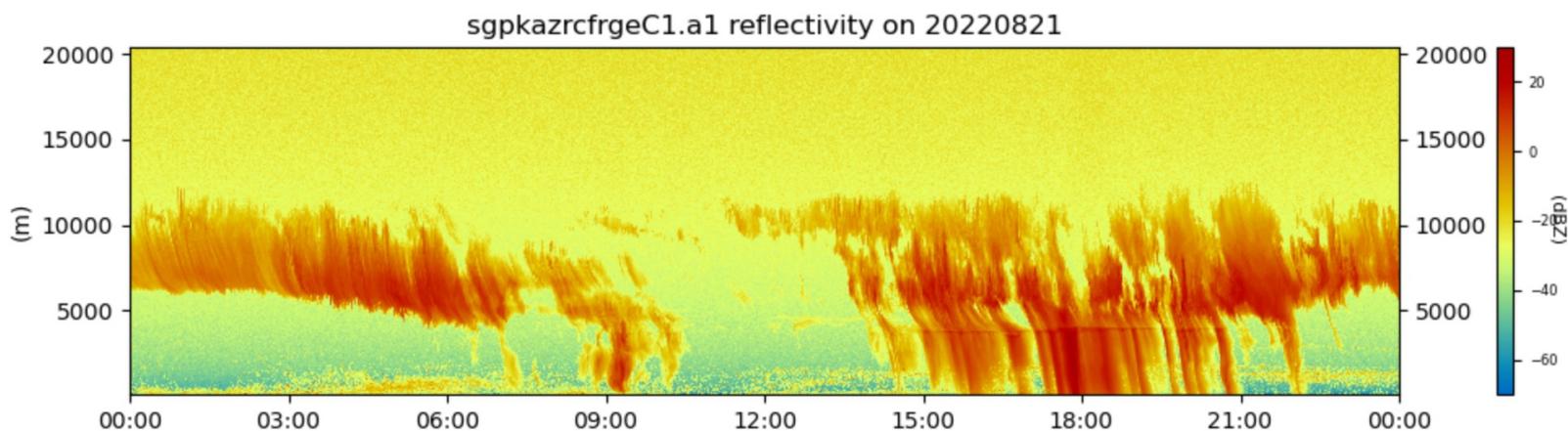


Image credit: ARM DQ Office - <https://dq.arm.gov/dq-plotbrowser/>



# Primary Activities

## ► SAIL Radar Operations

FTE: 0.71

9/1/2021-12/15/2023

- CSU X-Band Radar Operations (not included in FTE)
- SAIL b1 Data Analysis & Processing (KAZR Only)
- SAIL X-Band Advanced Data products (VAP)

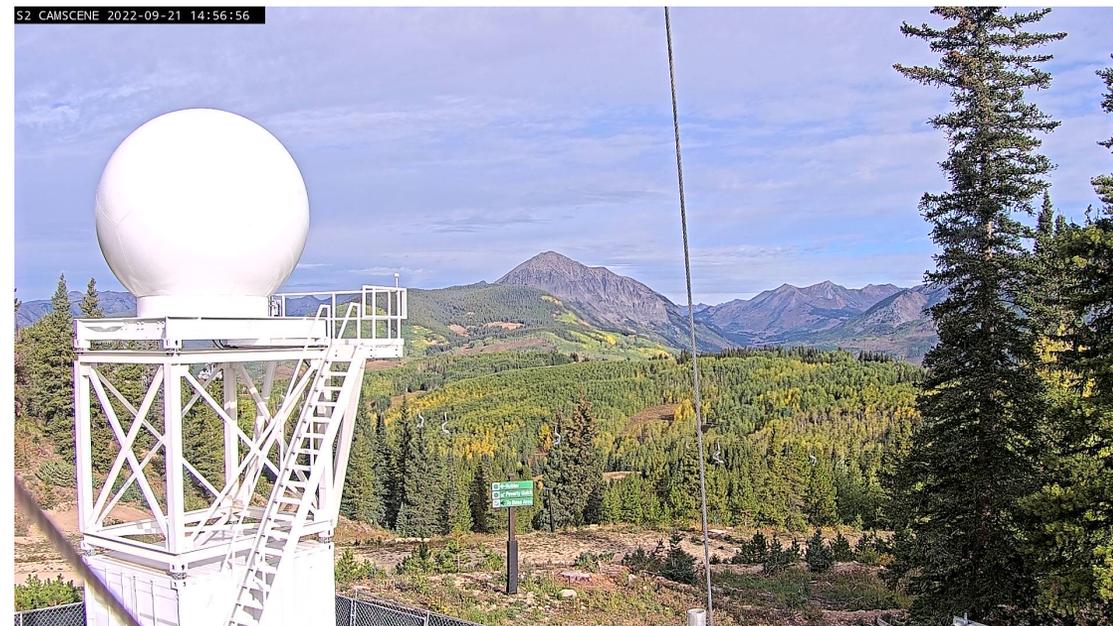
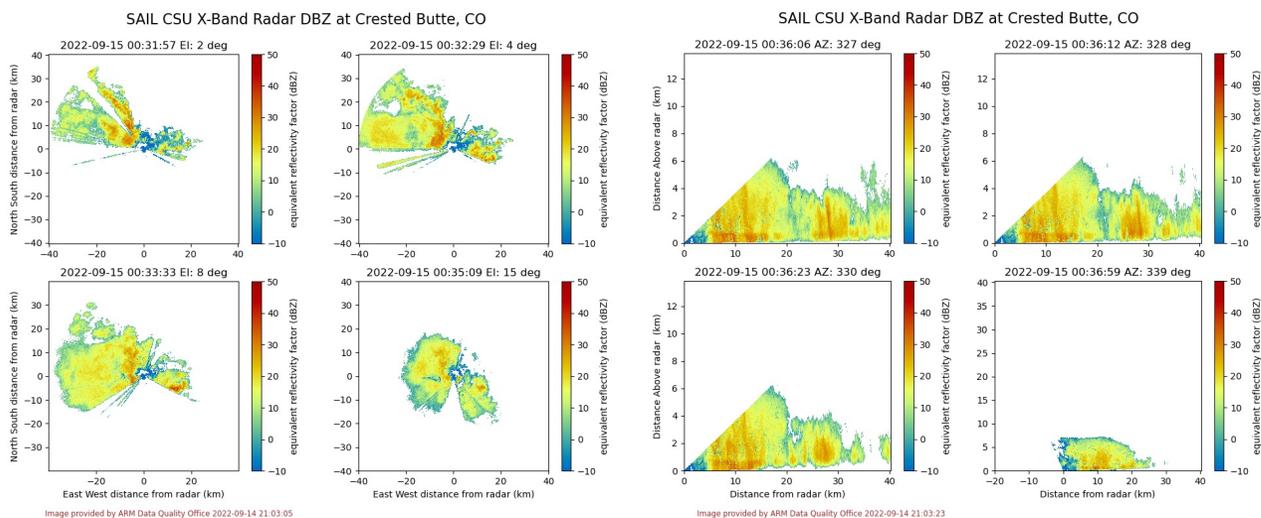


Image credit: ARM DQ Office - <https://dq.arm.gov/dq-plotbrowser/>

# Primary Activities

▶ EPCAPE Radar Install & Operations

FTE: 0.66

1/1/2023-2/14/2024

- EPCAPE Installation
- EPCAPE Radar Operations
- EPCAPE Data Monitoring & Operations



## Primary Activities

▶ AMF3 Campaign Preparations,  
Installation, & Operations

FTE: 1.35

1/1/2022 - Onward

- BNF Radar Preparations (CSAPR2, Ka/XSACR, KAZR)
- BNF Radar Installation
- BNF Radar Operations (Max 3-months)
- BNF Data Monitoring & Operations (Max 3-months)



# Primary Activities

	FTE	
▶ TRACER b1 Data Analysis & Processing	0.90	10/1/2022 – 3/30/2022
▶ AMF Deployable Radar	0.17	6/1/2022 – Onward
▶ AMF Radar Preparations for FY24	0.21	9/1/2023 – Onward
▶ KAZR Upgrades	0.10	1/1/2023 – 1/1/2026

# Secondary Activities

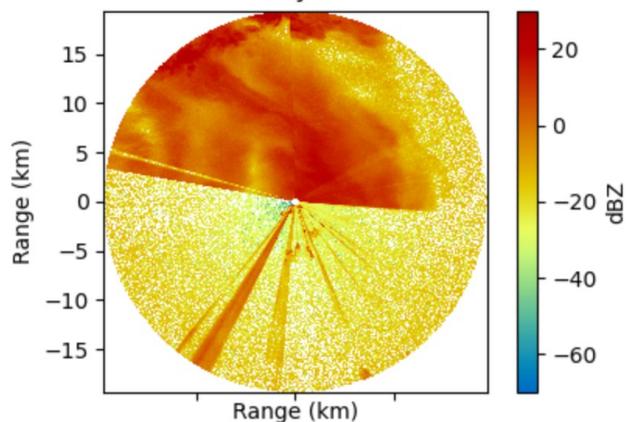
## ▶ ENA Radar Operations

FTE: 1.57

5/1/2022 – Onward

- ENA Radar Operations (6-months)
- RNA Radar Maintenance, Repairs and Possible Upgrade (Solid state)
- ENA Data Monitoring & Operations (6-months)
- ENA b1 Data Analysis & Processing (3-months; ~~summer~~ winter 2022)

ENA KASACR2 C1 2022-09-09 06:39:20  
reflectivity EL=2.0



ENA KASACR2 C1 2022-09-09 06:39:20  
mean\_doppler\_velocity EL=2.0

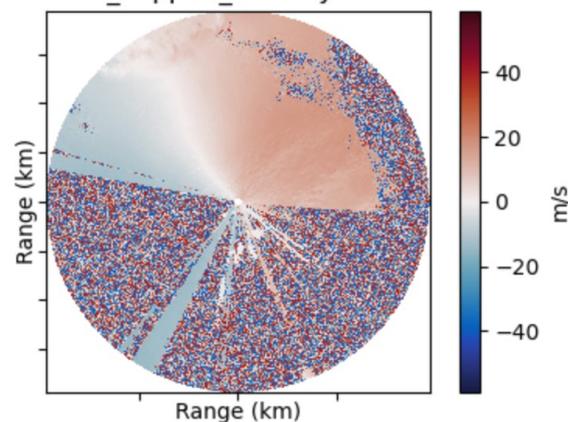


Image credit: ARM DQ Office - <https://dq.arm.gov/dq-plotbrowser/>



# Secondary Activities

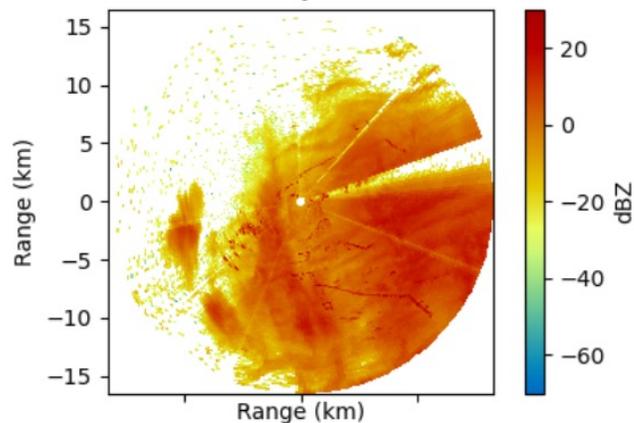
## ▶ NSA Radar Operations

FTE: 1.18

8/1/2022 – Onward

- NSA Radar Maintenance & Return to Operations (6-months ops)
- NSA Data Monitoring & Operations (6-months)
- NSA b1 Data Analysis & Processing (6-months)
- NSA Radar Preparations for FY24 Winter

NSA KASACR2 C1 2022-09-20 01:46:28  
reflectivity EL=0.5



NSA WSACR2 C1 2022-09-20 01:46:28  
reflectivity EL=0.5

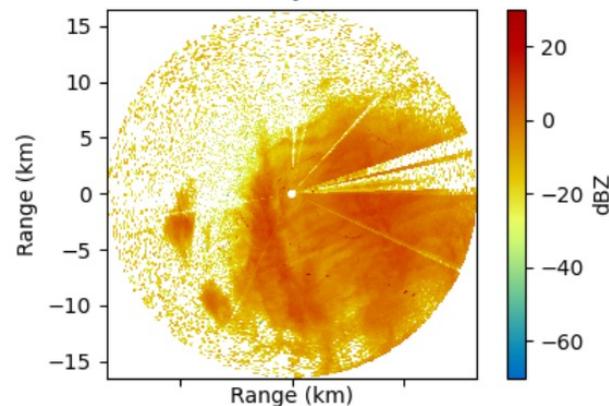


Image credit: ARM DQ Office - <https://dq.arm.gov/dq-plotbrowser/>



# Secondary Activities

- ▶ SGP Radar Operations (XSAPRs) FTE: 0.54
  - SGP Maintenance & Return to Operations (3-months ops)
  - SGP Data Monitoring & Operations (3-months)
  - SGP b1 Data Analysis & Processing (3-months)

3/1/2023 – 12/30/2023  
Spring 2023

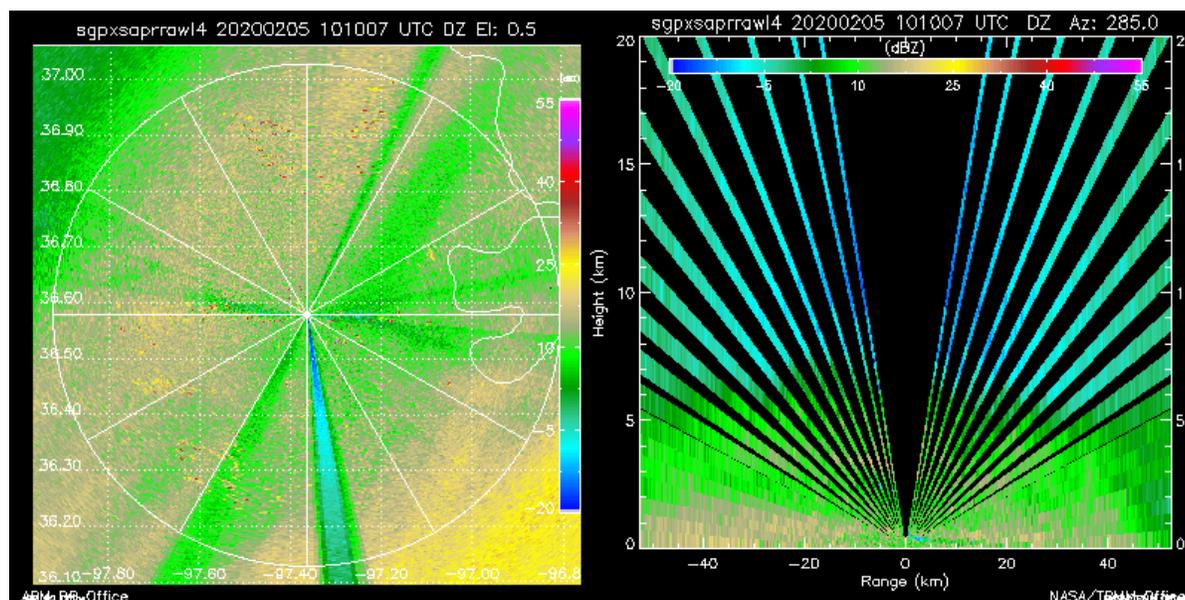


Image credit: ARM DQ Office - <https://dq.arm.gov/dq-plotbrowser/>



# FY23 Communication Plan Improvements

- ▶ Monthly radar science community call with a data mentor
  - Expand awareness and visibility of this call by inviting all radar data users
  - Set aside 3-4 of these meeting for pre-defined topics that are communicated out in advance
    - ENA/NSA scan strategies
    - SGP IOP Planning
  - Other sessions will be general Q&A
- ▶ Full review of [radar.arm.gov](https://radar.arm.gov) with a goal to better meet the needs of the community
- ▶ Other ideas?

# Questions