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My perspective: BNL-ANL SFA Manager, "Influences of Aerosol ad Cloud Processes on Climate" ARM/ASR researcher for 22 years former ARM Translator PI for the MC3E, TRACER campaigns Main research interests in: 1) deep convective and

2) marine boundary layer cloud processes

## What is ARM doing well? What an be improved?

Strengths:

- Main instrument datastreams (KAZR, Radiosonde, RWP, Disdrometer, MWR) are robust.
- Long-term consistency in these datasets
- Support for SatCorps datasets
- Consideration of diversity of data user groups

Need improvement

- Thermodynamic profiling at ENA site
- Insects still remain a problem for shallow cumulus for KAZR
- Use of long-term ARM datasets
- For convective studies, need to sample ample convection (TWP, GoAmazon, CACTI, TRACER)

## What are critical measurements?

Depends on the science questions.

Don't forget about the baseline measurements (i.e., the is still a lot to learn from the "soda straw")

Measurements of the thermodynamic environment is critical.

For data processing:

Prioritize baseline VAPS (that are mostly operational).

For complicated (different instrumentation, adaptive scanning), concentration should be on quality-controlled, calibrated (b1 level) data. Higher-level products should be responsibility of researchers.

More sharing of PI products