

PROCESS DRIVEN SAMPLING STRATEGIES FOR ARM INSTRUMENTS

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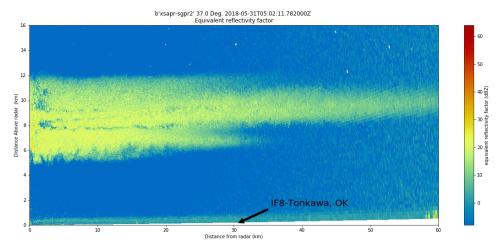


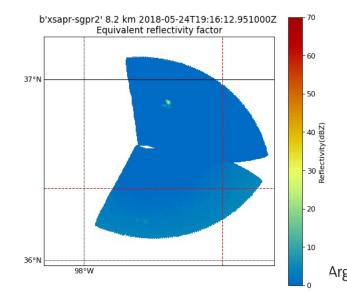


THIS SESSION

Aims... Big Aims..

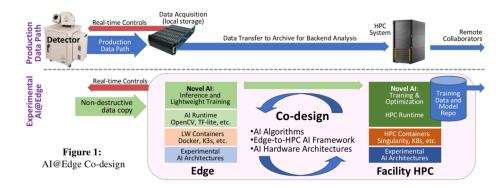
- The X-SAPR sampling experiment is an attempt to see how we can configure an instrument in order to maximize science.
- Not easy. Programmatically, scientifically and to a degree, socially. Creates winners and losers.
- In my view new instrumentation forces ARM to things more Agile. A facility with scanning complex instruments lends itself to more sophisticated observing.





NOT JUST RADARS.....

- RWP: Adaptive modes.
- Are we making the best use of the Scanning Doppler LIDARS?
- Should we be perusing scanning MPL? Aerosol heterogeneity.
- Drones?
- Adaptive scanning is currently a labor intensive activity in the program. Can we get clever with middleware/Edge? Automate with CNN/LSTM? Bias?







IN A NUTSHELL: HOW DO WE BEST CONFIGURE ARM INSTRUMENTS TO MEET STAKEHOLDER SCIENCE NEEDS?

16:00 Scott Collis: Framing and motivation for the session

16:15 Marcus van Lier-Walqui, Brenda Dolan, Andrei Lindenmaier And Sara E. Lytle: The Summer Sampling Experiment at the SGP.

16:30 Paytsar Muradyan: Adaptive Sampling Modes for Radar Wind Profilers.

16:45 Ann Fridlind: Advancing observational constraints on high-latitude cloud processes.

17:00 Stephen Nesbitt: Process- and hardware-driven scanning radar scanning in CACTI Remote

