Overview of ARM Cloud/Precipitation Radars

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The DOE ARM Program is currently operating a network of 25 radars around the world. Frequencies for these radars include C, X, Ka, and W bands. Data for these radars are available from the ARM Archive. In addition to raw radar data products, ARM also provides “value-added data products” including Cartesian coordinate mapping of radar moments, combining multiple sensors (radars, microwave radiometers, and lidars) to produce a time series vertical distribution of cloud hydrometeors.

ARM Mobile Facilities
Cape Cod, MA
• W-band cloud profiling radar
• Ka/W-band scanning cloud radar

Horizon Spirit Cargo Ship
• Ka-band cloud profiling radar
• W-band cloud profiling radar

ARM New Sites (2014)
Azores
• Ka-band cloud profiling radar
• Ka/W-band scanning cloud radar
• X-band dual-pol radar

Oliktok Point, AK (mobile facility)
• Ka-band cloud profiling radar
• Ka/W-band scanning cloud radar
• C-band dual-pol radar

ARM Fixed Sites
SGP Oklahoma
• Ka-band cloud profiling radar
• Ka/W-band scanning cloud radar
• X-band dual-pol radars (3)
• C-band dual-pol radar

Barrow, AK
• Ka-band cloud profiling radar
• Ka/W-band scanning cloud radar
• X-band dual-pol radar

Manus, Papua New Guinea
• Ka-band cloud profiling radar
• X/Ka-band scanning cloud radar
• C-band dual-pol radar

Darwin, Australia
• Ka-band cloud profiling radar
• X/Ka-band scanning cloud radar

For more information about ARM program visit:
http://www.arm.gov

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