

Aerosol Life Cycle Working Group Instrument Procurement Priorities

Instrument	Recommended ARM Site/Facility*
1625 nm channel multifilter rotating shadowband radiometer (MFRSR), with down-looking multifilter radiometer head	all fixed sites and mobile facilities
Ultra-high sensitivity aerosol spectrometer (UHSAS)	all fixed sites and mobile facilities
Condensation nuclei (CN) counters – replace all with new, tested instruments	All existing fixed sites and mobile facilities
Submicrometer aerosol generation system	AAF and AOS
CO/NOx monitor	All AMFs and ENA (Azores)
CLAP? to be tested as replacement for all particle soot absorption photometers	AMF1, AMF2, and SGP
CAPS-PMEX to be tested and used for extinction measurements and with nephelometers for secondary absorption measurements	AMFs and SGP
Scanning mobility particle sizer (SMPS)	AMF1
NOx (or CN or CO)	AMF3
ACSM - aerosol chemical speciation monitor) or filter measurements for elemental analysis	AMF3
Cloud condensation nuclei particle counter (CCN) for tethersonde	AMF3
Single particle soot photometer (SP2)	AMF3
Radon monitor	ENA (Azores)
Doppler Lidar	NSA
High temporal resolution C14	MAOS
Nano-scanning mobility particle sizer (Nano-SMPS)	SGP and MAOS
NOx monitor	SGP
SO2 monitor	SGP
Convert shortwave spectrometer (SWS) to shortwave array spectroradiometer-Zenith (SAS-Ze)	SGP
Brewer radiometer	SGP
PASS3 complete analyses, intercomparisons, and testing for determination if this specific instrument meets program needs	?