

<b>Parameter</b>	<b>Method</b>
Aerosol inorganic composition	PILS-IC
Aerosol WSOC (water soluble organic carbon)	PILS-TOC
Aerosol size and composition (NR species)	Q- AMS
Size resolved aerosol composition and mass, 2 stage (sub/super micron) & 7 stage at 60% RH Includes ions, OC, EC, and trace elements	Impactors (IC, XRF and thermal optical OC/EC, total gravimetric weight)
Total and sub-micron aerosol scattering & backscattering (450, 550 and 700 nm) at 60% RH	TSI 3563 nephelometers (2)
Total and sub-micron aerosol absorption (450, 550, 700 nm) dry	Radiance Research PSAPs (2)
Aerosol light scattering hygroscopic growth	Twin TSI 3563 nephelometers
Aerosol number concentration	CNC (TSI 3010, 3025)
Aerosol size distribution	DMA and APS
Non-volatile aerosol size distribution	SMPS (2) one with heated inlet
CCN	DMT
Aerosol optical depth	Microtops
Ozone	UV absorbance
Sulfur dioxide	Pulsed fluorescence
Radon	Radon gas decay
Seawater DMS	S chemiluminescence
Data and systems management	PCs; Ship's LAN; e-mail; ftp