

	Technique	Parameter	Person in charge on ship	PI
1	SMPS	Size distribution 6-500nm	Mao Du	Zongbo Shi
2	CPC	Total particle number conc. >2.5 nm	Mao Du	Zongbo Shi
3	PSM	Size distribution 1 nm	Mao Du	Zongbo Shi
4	SP2XR		Congbo Song	Derrel
5	Api-ToF	Conc. of ions / clusters	Mao Du	Zongbo Shi
6	neutral cluster and air ion spectrometer	particle distribution ~2 to 40 nm; ion distribution: 2 to 0.0013 cm ² /V/s	Congbo Song	Zongbo Shi
7	CCN counter	Number conc. of CCN	Congbo Song	Zongbo Shi
8	CCN counter	Number conc. of CCN	Congbo Song	Zongbo Shi
9	FIDAS	PM mass / Size distribution from 300nm	Congbo Song	Zongbo Shi
10	AMOF CO analyser	Concentration of CO	Congbo Song	Zongbo Shi
11	AMOF NOx analyser	Concentration of NO/NO2	Congbo Song	Zongbo Shi
12	NO/NO2 analyser from York	Concentration of NO/NO2	Anna Callaghan	James Lee
13	O3 analyser	Concentration of O3	Congbo Song	Zongbo Shi
14	Aethalometer AE33	BC concentration / light absorption	Congbo Song	Zongbo Shi
15	ACSM	NR aerosol composition	Vipul Lalchandani	Zongbo Shi
16	PTR-Qi-ToF	VOC flux	Roberto Sommariva	Zongbo Shi
17	PTR-1000 Ultra	VOC concentration	Vipul	Zongbo Shi
18	APS	Coarse particle Size distribution / sources	Congbo Song	Zongbo Shi
19	Picarro G2508	CH4, N2O, H2O, NH3	Congbo Song	Zongbo Shi
20	SVOC autosampler	Absorption tubes of SVOCs	TBC	Zongbo Shi
21	Xact - PM2.5	Metal concentration PM2.5	Vipul Lalchandani	Zongbo Shi
22	Xact - PM10	Metal concentration PM10	Vipul Lalchandani	Zongbo Shi
23	HONO - LOPAP	HONO concentration	Roberto Sommariva	Bill Bloss
24	LGR NH3 analyser	NH3 but with low DL	Congbo Song	Zongbo Shi
25	Digitel	Quartz 24-hr PM _{2.5} : primary and secondary organic tracer with / OC-EC	TBC	Zongbo Shi
26	Partisol	PTFE 24-hr PM _{2.5} ; weight + XRF for crustal elements	TBC	Zongbo Shi
27	Partisol	PTFE 24 hr; ion / metal	TBC	Zongbo Shi
28	TSI High vol impactor	PTFE - Size distribution: composition	TBC	Zongbo Shi
29	MSV high vol	Quartz: C isotope	TBC	Zongbo Shi
30	MSV high vol	Quartz: S / N isotope	TBC	Zongbo Shi
31	MiniVol Low Vol	Polycarbonate: SEM individual particle	TBC	Zongbo Shi
32	MOUDI	particle size distribution	TBC	Zongbo Shi
33	MOUDI	particle size distribution	TBC	Zongbo Shi
34	High vol EcoTech	Whatman: Nutrients - Fe	TBC	Zongbo Shi
35	TSI High vol impactor	Bioaerosol -	TBC	Zhang Daizhou
36	Radiometer	J10D	Xiaomi Teng	Keding Lu

37	BECCAS N2O5 monitor	N2O5	Xiaomi Teng	Keding Lu
38	BECCAS	IO / I2	Xiaomi Teng	Keding Lu
39	HCHO monitor	HCHO	Xiaomi Teng	Keding Lu
40	AiRRmonia	NH ₃ concentration	Congbo Song	Christine Braban
41	SPAMS	Single particle composition	Dihui Chen/Congbo Song	Chen Yang
42	HR-ToF-AMS	Size resolved NR - PM1	Zhang Yangmei	Zhang Yangmei
43	SPIN IN counter	Ice nuclei conc.	Amelie	Anna Jones
44	CPC	Total particle number conc. >2.5 nm	Joanna Dyson	Anna Jones
45	SMPS	Size distribution 10-500nm	Joanna Dyson	Anna Jones
46	iDirac	Isoprene and DMS	Joanna Dyson	Neil Harris
47	Impactors	Single particle samples	Teng Xiaomi	Li Weijun
48	nephelometer	Light scattering	Teng Xiaomi	Li Weijun
49	SO2 analyser	SO2	Loren Temple	Pete Edwards
50	Anemometers	Flux	Gavin Tilstone	Mingxi Yang
51	WETLabs Acs absorption and transmission meter (ACS 122)	TBC	Gavin Tilstone	Gavin Tilstone
52	WETLabs ECO-BB3 backscattering meter	TBC	Gavin Tilstone	Gavin Tilstone
53	WETLabs DH4/DH8 Data Handler	TBC	Gavin Tilstone	Gavin Tilstone
54	WETLabs ECO-BB3 backscattering meter	TBC	Gavin Tilstone	Gavin Tilstone
55	PINE	IN numbers	TBC	Ben Murray
56	SMPS (TSI)	10-560 nm	TBC	Ben Murray
57	APS	>300 nm	TBC	Ben Murray
58	Digitel low vol	IN numbers	TBC	Ben Murray
59	Mesalab low vol samplers	IN numbers	TBC	Ben Murray
60	Cascade impactors: Moudi + SHARK	IN numbers	TBC	Ben Murray
61	Multi Angle Absorption Photometer	BC concentration	Congbo Song	James Allan
62	WIBS	bioaerosol concentration	Mark Tarn	Martin Gallager
63	CAPS Spectroscopy ??	Aerosol extinction at 530 nm	Congbo Song	Hugh Coe
64	Offline	[NHx], PO4, NO3, NO2 sea water	Zhang Chao	Xiaohong Yao
65	offline	Chl a sea water	Zhang Chao	Zhang Chao
66	Offline denuder	Base / acidic gases	Dihui Chen	Xiaohong Yao
67	high vol	Organic molecular composition	Dihui Chen	Yujue Wang
68	Incubation	Response phytoplankton to dust inputs	Zhang Chao	Huiwang Gao