

Metadata Summary from Burke Hales for SO-GasEx RB cruise						
data collection success (3=no to little data expected; 2=data not yet available, but expected; 1=high success/data are available)						
MetaData report submitter	meta data report ID	data successes	Group/PI	Operation type	Measured parameters	Measurement approach
Bariteau	1	1	Fairall	Atmospheric flux	Sonic anemometry; fast Ozone; fast CO2/H2O	High-speed ship-board Jackstaff-mounted sensors
Bariteau	1	1	Fairall	Meteorological	air T; humidity; precipitation; irradiance	slow-mean-values; Ship-board jackstaff- and bow-
Bariteau	1	1	Fairall	Hydrography-surface mapping	SST	outrigger-deployed floating thermistor
Bariteau	1	1	Fairall	SeaState	Wave height	shipboard bow-tower mounted laser rangefinder
Bloomquist	2	2	Huebert	Atmospheric flux	Fast DMS	high-speed shipboard sampling from jackstaff; 20
Bloomquist	2	2	Huebert	Meteorological	MEAN DMS	1-min averages of fast DMS
Strutton	3	2	Strutton/ Hales/ Hebert/ Ullman	hydrography- water column	POC	CTD bottle samples; 1L samples vacuum filtered then by combustion CHN at USCB
Strutton	4	2	Strutton/ Hales/ Hebert/ Ullman	Incubation	NO3; N15-NO3	1L samples collected from CTD bottles; spiked with filtered samples sent to UCSB for analysis.
Vaillancourt	5	2	Vaillancourt/ Hargraves/ Lance/ Marra	Incubation	14C spiked PvsE incubations	14C, chlorophyll, incubation PAR
Vaillancourt	5	2	Vaillancourt/ Hargraves/ Lance/ Marra	hydrography- water column	Chl Fluorescence; HPLC Pigments; Particle absorption	Filtered samples from CTD bottles.
Vaillancourt	5	1	Vaillancourt/ Hargraves/ Lance/ Marra	hydrography- surface mapping	chlorophyll, CDOM, phycocyanin, phycoerytherin backscatter	Surface mapping with optical sensors
Vaillancourt	5	1	Vaillancourt/ Hargraves/ Lance/ Marra	meteorology	PAR	
Buonassissi	6	2	Dierssen	Hydrography- water column	reflectance, spectral attenuation, up- and downwelling radiance; particle number and volume density	ASD and LISST instruments on del Castillo package
Drapeau	7	1	Balch	Hydrography-surface mapping	Ocean color, water-leaving radiance	MicroSAS mounted on ship's bow
Drapeau	7	1	Balch	Meteorology	downwelling radiance	MicroSAS mounted on ship's bow

Drapeau	8	1	Balch	Hydrography-surface mapping	SST, SSS, Chl-fluorescence; Bb (acidified and non-acidified), filtered and unfiltered 9-wavelength absorption (AC9)	TC and optical sensors installed in ship's flow-throu
Freeman	9	2	Twardowski	Hydrography- water column	CTD, multiple optical (LISST, AC9, ECO, MASCOT...)	Instruments on del Castillo package during optical
Freeman	10	2	Twardowski	Hydrography- water column	TSM	Surface and 60m CTD bottle sampled corresponding pre-weighed nucleopore filter
Lubac	11	1	Lee	Meteorology	radiance, aerosol optical density	measurements coincident with CTD and optical cast radiometer, volume scattering meter, and sun phot
Schmieder/ Reid	12	2	Ho/ Wanninkhof	Deliberate Tracer - surface mapping	3He and SF6	Continuous stripping of gases in surface underway membrane contactor. Analysis of SF6 by shipboard based laboratory
Sullivan	13	1	Ho/ Wanninkhof	Deliberate Tracer - water column	SF6	Discrete samples from CTD bottles purged with N2 GC/ECD
Sullivan	14	NA	Ho/ Wanninkhof	Deliberate Tracer - Injection		Infusion and injection of tracer volumes.
del Castillo	15	2	del Castillo	hydrography- water column	CDOM, TOC, DOC	samples collected from CTD casts. TOC analyzed on filtrations for CDOM and DOC.
Covert	16	1	Feely, Sabine	hydrography- water column	Alkalinity	samples from CTD bottles titrated with ship-board
Castle	17	1	Wanninkhof	hydrography- water column	pCO2	Samples collected from CTD bottles; wet headspace absorption
Sabine	18	2	Sabine/ DeGrandpre/ McGillis	hydrography- water column	T, pCO2, beam-c, chl, O2	sensors deployed at 6 depths on MAP-CO2 drogue
Sabine	18	1	Sabine/ DeGrandpre/ McGillis	hydrography- surface mapping	pH, pCO2	PMEL IR CO2 system and SAMI-pH system deployed on buoy
Sabine	18	2	Sabine/ DeGrandpre/ McGillis	physical transport	3-axis velocity and TKE dissipation	MAVS, ADV, ADCP, Aquadopp HR deployed on surf
Sabine	18	2	Sabine/ DeGrandpre/ McGillis	meteorology	wind velocity	Aquadopp HR and underwater camera deployed on
Sabine	18	1	Sabine/ DeGrandpre/ McGillis	seastate	wave-number spectra, bubble spectra	Aquadopp HR and underwater camera deployed on
Hamme	19	1	Hamme	hydrography- water column	noble gas concentrations	Samples from CTD bottles were drawn into pre-evap analyzed at home lab by mass-spectrometry
Hamme	20	1	Hamme	hydrography- water column	O2 gas concentrations	samples collected from CTD bottles analyzed by sh
Hales	21	2	Hales, Strutton, Hebert	hydrography- surface mapping	pCO2, TCO2, NO3, O2, T, S, bio-optics	
Hales	21	1	Hales, Strutton, Hebert	physical transport	Velocity	Ship-based ADCP
Hales	21	3	Hales, Strutton, Hebert	physical transport	microstructure turbulence	TOMASI

Hales	21	3	Hales, Strutton, Hebert	hydrography- water column	pCO2, TCO2, O2, NO3, T, S, bio-optics	continuous analysis of Pumping season samples
Castle	22	1	Wanninkhof	hydrography- surface mapping	pCO2	showerhead equilibration of surface intake waters; equilibrated gas by LI6251; CN system
Castle	22	1	Wanninkhof	meteorology	pCO2	IR absorption analysis of atmospheric gas by LI625
Castle	23	1	Wanninkhof	hydrography- surface mapping	pCO2	showerhead equilibration of surface intake waters; equilibrated gas by LI6262; GO system
Castle	23	1	Wanninkhof	meteorology	pCO2	IR absorption analysis of atmospheric gas by LI626
not received- LeBon?	23	1	Sabine, Feely	hydrography- water column	discrete DIC	Coulometric analyses of discrete samples from CTD
not received- Rabozzo?	24	2	Drennan	meteorology		ASIS buoy
not received- Archer?	25	2	Archer	hydrography- water column	water-column DMS	GC/MS (?) analysis
not received- Charlie?	26	2	Johnson??	hydrography- water column	discrete nutrients	standard autoanalyzer nut analyses
not received- Purkey?	27	1	Johnson	hydrography- water column	CTD operations	CTD/rosette methodology; salinometer;
not received- Reid/ Schmieder?	28	2	Ho/ Wanninkhof	Deliberate Tracer - water column	<sup>3</sup> He	subsamples from CTD bottles; returned to lab for p
not received- Drapeau?	29	2	Balch	hydrography- water column	PIC	subsamples from CTD bottles; same approach as d above?