

The last

RB1904 CTD Cast Sheet

Station Number: A8 CTD cast #: 119 Transect #: 64
 Start time (UTC): 0321 End time (UTC): _____ Bottom Depth: 123'
 Start date (UTC): 20190525 End date (UTC): 20190525 Initials: ms
0325 at 112m depth

Floater ID	Bottle	Target Depth	TOI	Nats	°C	Chl a vol	Chl b vol	BSi	HPLC ID	HPLC vol	CO ₂	C/N	FCM	IFCB
	1	112 ✓	✓	✓										
	2	100 ✓	✓	✓										
	3	80 ✓	✓	✓										
	4	60 ✓	✓	✓		✓								
	5	60 ✓												
	6	40 ✓	✓	✓		✓								
	7	40 ✓												
	8	30 ✓	✓	✓		✓								
	9	30 ✓												
	10	22 ✓	✓	✓		✓			✓	✓			✓	✓
	11	22 ✓												
	12	22 ✓												
	13	10 ✓												
	14	10 ✓	✓	✓		✓								
	15	surf ✓												
	16	✓	✓	✓		✓	✓		✓	✓			✓	✓
	17	✓												
	18	surf ✓												
	19													
	20													
	21													
	22													
	23													
	24													
	Sam pler													

Sampling depths – Fixed: Sfc, 10, 20, 30, 40, 60, 80, 100, 120, 150, 200, 250, 300
 Floating: Chl max, 10mab *chl max 23 up 22 ch*

RB1904 CTD Cast Sheet

Station Number: A10 CTD cast #: 118 Transect #: 64
 Start time (UTC): 0200 End time (UTC): _____ Bottom Depth: 138
 Start date (UTC): 20190525 End date (UTC): 20190525 Initials: MS

Floater ID	Bottle	Target Depth	TOI	Nuts	¹⁴ C	Chl a vol	Chl b vol	BSi	HPLC ID	HPLC vol	CO ₂	C/N	FCM	IFCB
	1	128 ✓		✓										
	2	100 ✓		✓										
	3	80 ✓		✓										
	4	60 ✓		✓										
	5	60 ✓												
2007	6	36 ✓		✓		✓			✓	✓			✓	✓
	7	36 ✓												
	8	36 ✓												
	9	30 ✓												
	10	30 ✓		✓		✓								
	11	20 ✓												
	12	20 ✓		✓		✓								
	13	10 ✓												
0214	14	10 ✓		✓		✓								
	15	SURF ✓												
	16	SURF ✓	✓	✓		✓	✓		✓	✓			✓	✓
	17	SURF ✓												
	18	SURF ✓												
	19													
	20													
	21													
	22													
	23													
	24													
	Sam pler													

Sampling depths – Fixed: Sfc, 10, 20, 30, 40, 60, 80, 100, 120, 150, 200, 250, 300
Floating: Chl max, 10mab Chl 36

RB1904 CTD Cast Sheet

Station Number: A11 CTD cast #: 117 Transect #: 64
 Start time (UTC): 0106 End time (UTC): 0122 Bottom Depth: 152
 Start date (UTC): 20190525 End date (UTC): 20190525 Initials: AMS

Floater ID	Bottle	Target Depth	TOI	Nuts	¹⁴ C	Chl a vol	Chl b vol	BSi	HPLC ID	HPLC vol	CO ₂	C/N	FCM	IFCB
	1	140 ✓		✓										
	2	120 ✓		✓										
	3	100 ✓		✓										
	4	80 ✓		✓										
	5	60 ✓												
	6	60 ✓		✓		✓								
	7	40 ✓												
	8	40 ✓		✓		✓								
	9	30 ✓												
	10	30 ✓		✓		✓								
	11	20 ✓												
	12	20 ✓		✓		✓								
	13	15 ✓												
	14	15 ✓		✓		✓			✓	✓			✓	✓
	15	Surf												
	16	Surf ✓	✓	✓		✓	✓		✓	✓			✓	✓
	17	Surf												
	18	Surf												
	19													
	20													
	21													
	22													
	23													
	24													
	Sam pler													

Sampling depths – Fixed: Sfc, 10, 20, 30, 40, 60, 80, 100, 120, 150, 200, 250, 300
Floating: Chl max, 10mab

RB1904 CTD Cast Sheet

Station Number: A12 CTD cast #: 116 Transect #: 64
 Start time (UTC): 2348 End time (UTC): 0019 Bottom Depth: 768
 Start date (UTC): 20190524 End date (UTC): 20190525 Initials: MS

Floater ID	Bottle	Target Depth	TOI	Nuts	°C	Chl a vol	Chl b vol	BSi	HPLC ID	HPLC vol	CO ₂	C/N	FCM	IFCB
	1	250 ✓	✓	✓										
	2	200 ✓	✓	✓										
	3	150 ✓	✓	✓										
	4	120 ✓	✓	✓										
	5	100 ✓	✓	✓										
	6	80 ✓				✓								
	7	80 ✓		✓										
	8	60 ✓		✓		✓								
	9	60 ✓												
	10	40 ✓		✓		✓								
	11	40 ✓												
	12	30 ✓		✓		✓								
	13	30 ✓												
	14	20 ✓		✓		✓								
	15	20 ✓												
	16	13 ✓		✓		✓			✓	✓			✓	✓
	17	13 ✓												
	18	Chl 5		✓		✓								
	19	10 5												
	20	5												
	21	Surf												
	22	Surf	✓	✓		✓	✓		✓	✓			✓	✓
	23	Surf												
	24	Surf												
	Sampler													

Sampling depths – Fixed: Sfc, 10, 20, 30, 40, 60, 80, 100, 120, 150, 200, 250, 300
 Floating: Chl max, 10mab

RB1904 CTD Cast Sheet

Station Number: A13 CTD cast #: 115 Transect #: 64
 Start time (UTC): 22:19 02 End time (UTC): _____ Bottom Depth: ~45 5
 Start date (UTC): 2019 05 24 End date (UTC): 2019 05 24 Initials: NO

Floater ID	Bottle	Target Depth	TOI	Nuts	°C	Chl a vol	Chl b vol	BSi	HPLC ID	HPLC vol	CO ₂	C/N	FCM	IFCB
	1	300		✓										
	2	250		✓										
	3	200		✓										
	4	150		✓										
	5	120		✓										
	6	100		✓										
	7	80		✓										
	8	80												
	9	60												
	10	60		✓										
	11	45												
	12	45		✓										
	13	30												
	14	30		✓										
	15	20		✓					✓	✓			✓	✓
	16	20												
	17	10												
	18	10		✓										
	19	10												
	20	surf												
	21	↓												
	22	↓												
	23	↓												
	24	↓	✓	✓		✓	✓		✓	✓			✓	✓
	Sam pler													

Sampling depths – Fixed: Sfc, 10, 20, 30, 40, 60, 80, 100, 120, 150, 200, 250, 300
Floating: Chl max, 10mab

RB1904 CTD Cast Sheet

Station Number: A15 CTD cast #: 113 Transect #: 64
 Start time (UTC): 18 00 End time (UTC): 19:45 Bottom Depth: 1115
 Start date (UTC): 20190524 End date (UTC): 20190524 Initials: WD

Floater ID	Bottle	Target Depth	TOI	Nuts	¹⁴ C	Chl a vol	Chl b vol	BSi	HPLC ID	HPLC vol	CO ₂	C/N	FCM	IFCB
	1	300		✓										
	2	250		✓										
	3	200		✓										
	4	150		✓										
	5	120		✓										
	6	100		✓										
	7	80												
	8	80		✓										
	9	60												
	10	60		✓		✓								
	11	40		✓										
	12	40		✓		✓								
Chl max	13	33												
	14	32		✓		✓			✓	✓			✓	✓
DC	15	33												
	16	20		✓		✓								
	17	20												
	18	10		✓		✓								
	19	10												
	20	sfc												
	21	sfc												
	22	sfc												
	23	sfc												
	24	sfc	✓	✓		✓	✓		✓	✓			✓	✓
Sampler														

Sampling depths – Fixed: Sfc, 10, 20, 30, 40, 60, 80, 100, 120, 150, 200, 250, 300
Floating: Chl max, 10mab
 0v 10=0 3-3 40v 60 80
 0v 3 ✓
 0v 3v

RB1904 CTD Cast Sheet

Station Number: A16 CTD cast #: 112 Transect #: 64
 Start time (UTC): 1646 End time (UTC): 1728 Bottom Depth: 1825
 Start date (UTC): 20190524 End date (UTC): 20190524 Initials: MS

CAST DEPTH 500, BATT6 @ 300 fup.

Floater ID	Bottle	Target Depth	TOI	Nuts	¹⁴ C	Chl a vol	Chl b vol	BSi	HPLC ID	HPLC vol	CO ₂	CN	FCM	IFCB
	1	300 ✓		✓										
	2	250 ✓		✓										
	3	200 ✓		✓										
	4	150 ✓		✓										
	5	120 ✓		✓										
	6	100 ✓		✓										
	7	80 ✓		✓										
	8	80 ✓												
	9	60 ✓		✓										
	10	60 ✓												
	11	40 ✓		✓		✓								
	12	40 ✓												
	13	30 ✓		✓		✓								
	14	30 ✓												
	15	25 ✓												
	16	25 ✓		✓		✓			✓	✓			✓	✓
	17	25 ✓												
	18	10 ✓		✓		✓								
	19	10 ✓												
	20	Surf												
	21	Surf												
	22	Surf												
	23	Surf												
	24	Surf	✓	✓		✓	✓		✓	✓			✓	✓
	Sam pler													

Sampling depths – Fixed: Sfc, 10, 20, 30, 40, 60, 80, 100, 120, 150, 200, 250, 300

Floating: Chl max, 10mab 25ch Max
 Draw 10 Surf, 25ch Max

RB1904 CTD Cast Sheet

Station Number: A17 CTD cast #: 111 Transect #: 64
 Start time (UTC): 1143 End time (UTC): 1523 Bottom Depth: 2120
 Start date (UTC): 20190524 End date (UTC): 20190524 Initials: MS

Floater ID	Bottle	Target Depth	TOI	Nuts	°C	Chl a vol	Chl b vol	BSi	HPLC ID	HPLC vol	CO ₂	C/N	FCM	IFCB
	1	300 ✓		✓										
	2	250 ✓		✓										
	3	200 ✓		✓										
	4	150 ✓		✓										
	5	120 ✓		✓										
	6	100 ✓		✓										
	7	100 ✓												
	8	80 ✓		✓										
	9	80 ✓												
	10	60 ✓		✓		✓								
	11	60 ✓												
	12	40 ✓		✓		✓								
	13	40 ✓												
	14	30 ✓		✓		✓								
	15	30 ✓												
	16	25 ✓		✓		✓			✓	✓			✓	✓
	17	25 ✓												
	18	25 ✓												
	19	10 ✓		✓		✓								
	20	10 ✓												
	21	Surface ✓	✓	✓		✓	✓		✓	✓			✓	✓
	22	↓												
	23	↓												
	24	Surface ✓												
	Sam pler													

Sampling depths – Fixed: Sfc, 10, 20, 30, 40, 60, 80, 100, 120, 150, 200, 250, 300

Floating: Chl max, 10mab

RB1904 CTD Cast Sheet

Station Number: A18 CTD cast #: 110 Transect #: 64
 Start time (UTC): 1314 End time (UTC): 1351 Bottom Depth: 2235
 Start date (UTC): 20190524 End date (UTC): 20190524 Initials: MC

CAST BOTTOM: 500, up to first bottle at 300

Floater ID	Bottle	Target Depth	TOI	Nuts	¹⁴ C	Chl a vol	Chl b vol	BSi	HPLC ID	HPLC vol	CO ₂	C/N	FCM	IFCB
	1	300 ✓		✓										
	2	250 ✓		✓										
	3	200 ✓		✓										
	4	150 ✓		✓										
	5	120 ✓		✓										
	6	100 ✓		✓										
	7	100 ✓												
	8	80 ✓		✓										
	9	80 ✓												
	10	60 ✓		✓		✓								
	11	60 ✓												
	12	40 ✓		✓		✓								
	13	40 ✓												
	14	33 ✓		✓		✓			✓	✓			✓	✓
	15	33 ✓												
	16	33 ✓												
	17	20 ✓		✓		✓								
	18	20 ✓												
	19	10 ✓		✓		✓								
	20	10 ✓												
	21	surf ✓		✓		✓	✓		✓	✓			✓	✓
	22			✓										
	23			✓										
	24	surf ✓												
	Sam pler													

Sampling depths – Fixed: Sfc, 10, 20, 30, 40, 60, 80, 100, 120, 150, 200, 250, 300
Floating: Chl max, 10mab