

AR29 CTD Cast Sheet

Station Number: **A5**
 Start date, time (UTC): **2018-04-17 13:15**

CTD cast number: **003**
 End date, time (UTC): **13:30**

Initials: **WZ**

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	IFCB S
10mab	1	71	✓	✓		290	290						✓		
	2	60	✓												
	3	60		✓		290	290						✓		
	4	40	✓												
	5	40		✓		290	290						✓		
Chl max	6	30		✓		288	281		57	532			✓	✓	
Chl max	7	30													
	8	20	✓												
	9	20		✓		290	290						✓		
	10	10		✓		288	287						✓		
	11	10													
	12	Sfc	✓												
	13	Sfc		✓		290	290		58	535			✓	✓	
	14														
	15														
	16														
	17														
	18														
	19														
	20														
	21														
	22														
	23														
	24														
	Sampler														

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

AR29 CTD Cast Sheet

Station Number: **A6**

CTD cast number: **004**

Initials: **WZ**

Start date, time (UTC): **14:25**

End date, time (UTC): **14:35**

2018-4-17

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	IFCB S
10mab	1	79		✓		290	290						✓		
	2	60		✓		290	290						✓		
	3	40		✓		290	290						✓		
	4	30		✓		290	290						✓		
chl max	5	25		✓		288	281		59	532			✓	✓	
	6	20		✓		290	290						✓		
	7	10		✓		288	287						✓		
	8	sfc	115	✓											
	9	sfc				290	290		60	535			✓	✓	
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	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

AR29 CTD Cast Sheet

Station Number: **A7**
 Start date, time (UTC): **2018-4-17, 15:27**

CTD cast number: **005**
 End date, time (UTC): **15:55**

Initials: **WZ**

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	IFCB S
10mab	1	92	✓												
10mab	2	92													
	3	80	✓												
	4	80													
	5	60	✓			290	290						✓		
	6	60													
	7	40	✓			290	290						✓		
WS	8	40													
	9	40													
	10	30													
WS	11	27.5	✓			290	290		61	1047			✓	✓	
chl max	12	24	✓			281	288		62	1060			✓		
Cmax	13	24													
	14	20													
WS	15	18	✓			290	290						✓		
WS	16	11	✓			290	290						✓		
	17	11													
WS	18	4.5				288	287								
	19	Sfc				290	290		63	1057			✓	✓	
	20	Sfc													
	21	Sfc													
	22	Sfc													
	23	Sfc													
	24	Sfc													
	Sam pler														

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

SPAR: ~2000
 WS: Walker Smith
 CMax: chl max

AR29 CTD Cast Sheet

Station Number: **A7**
 Start date, time (UTC): **2018-4-17 17:15**

CTD cast number: **006**
 End date, time (UTC): **17:18**

Initials:

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	IFCB S
JT	1	sfc											✓*	✓	
JT	2	sfc													
JT	3	sfc													
JT	4	sfc													
JT	5	sfc													
JT	6	sfc													
JT	7	sfc													
JT	8	sfc													
JT	9	sfc													
JT	10	sfc													
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	19														
	20														
	21														
	22														
	23														
	24														
	Sampler														

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

* run initial discrete for J.T. and freeze for later

Collect surface water for grazing experiment, NO DAVPR
 JT – Jeff Turner

AR29 CTD Cast Sheet

Station Number: **A8**
 Start date, time (UTC): **2018-4-17 18:17**

CTD cast number: **007** Initials: **WZ**
 End date, time (UTC): **18:37**

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	IFCB S
10mab	1	114		✓		290	282					✓	✓		
	2	100		✓		290	290						✓		
	3	80		✓		290	290	✓				✓	✓		
	4	60		✓		290	290	✓				✓	✓		
	5	40		✓		290	290	✓				✓	✓		
	6	30		✓		290	290	✓				✓	✓		
Cmax	7	20		✓		290	290	✓	64	1060		✓	✓	✓	
	8	10		✓		288	287	✓				✓	✓		
	9	sfc	✓	✓		290	290	✓	65	1057		✓	✓	✓	
	10	sfc													
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	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

AR29 CTD Cast Sheet

Station Number: **A9**
 Start date, time (UTC): **19:25**

CTD cast number: **008**
 End date, time (UTC): **19:40**

Initials:

2018-04-17

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	IFCB S
10mab	1	121		✓		282	290						✓		
	2	100	'	✓		290	290						✓		
	3	100													
	4	80	'	✓		290	290						✓		
	5	80													
	6	60	'	✓		290	290						✓		
	7	60													
	8	40	'	✓		290	290						✓		
	9	40													
	10	30	'	✓		290	290						✓		
	11	30													
	12	20	'	✓		290	290						✓	✓	
Cmax	13	20							66	1060					
	14	10		✓		288	287						✓		
	15	sfc	'	✓		290	290		67	1057			✓		
	16	sfc													
	17														
	18														
	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

AR29 CTD Cast Sheet

Station Number: **A10**
 Start date, time (UTC): **2018-04-17 20:24**

CTD cast number: **009**
 End date, time (UTC): **20:48**

Initials: **WZ**

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	IFCB S
10mab	1	131		✓											
	2	120		✓											
	3	100		✓											
	4	80		✓		290	290						✓		
	5	60		✓		290	290						✓		
WS	6	49		✓		290	290						✓		
	7	40		✓											
Chl max WS	8	33		✓					68	1060			✓	✓	
	9	30		✓											
WS	10	20		✓		290	290						✓		
WS	11	14		✓		290	290						✓		
	12	10		✓											
WS	13	5		✓		287	288						✓		
	14	SURF		✓		290	290		69	1057			✓	✓	
WS	15	SURF													
	16	SFC													
	17														
	18														
	19														
	20														
	21														
	22														
	23														
	24														
	Sampler														

SJC
 3
 5
 14
 21
 33
 49

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

SPAR: 278

AR29 CTD Cast Sheet

Station Number: A11
 Start date, time (UTC): 2018-04-17 21:45

CTD cast number: 010
 End date, time (UTC): 22:00

Initials: WZ

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	IFCB S
<u>10mab</u>	1	<u>144</u>		✓											
	2	<u>120</u>		✓											
	3	<u>100</u>	/	✓											
	4	<u>100</u>													
	5	<u>80</u>	/	✓		<u>290</u>	<u>290</u>								
	6	<u>80</u>													
	7	<u>60</u>	/	✓		<u>290</u>	<u>290</u>						✓		
	8	<u>60</u>													
	9	<u>40</u>	/	✓		<u>290</u>	<u>290</u>						✓		
	10	<u>40</u>													
	11	<u>30</u>		✓		<u>290</u>	<u>290</u>						✓		
	12	<u>20</u>	/	✓		<u>290</u>	<u>290</u>						✓		
	13	<u>20</u>													
<u>Cmax</u>	14	<u>13</u>		✓		<u>288</u>	<u>287</u>	<u>70</u>	<u>1060</u>				✓	✓	
	15	<u>Sfc</u>	/	✓		<u>290</u>	<u>290</u>	<u>71</u>	<u>1057</u>				✓		
	16	<u>Sfc</u>													
	17														
	18														
	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

AR29 CTD Cast Sheet

Station Number: *A12*
 Start date, time (UTC): *22:50*

CTD cast number: *011*
 End date, time (UTC): *23:23*

Initials: *WZ*

2018-04-17

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	IFCB S
<i>10mab</i>	1	<i>268</i>		✓		<i>290</i>	<i>282</i>								
	2	<i>250</i>		✓											
	3	<i>200</i>		✓											
	4	<i>150</i>		✓											
	5	<i>120</i>		✓		<i>289</i>	<i>286</i>						✓		
	6	<i>100</i>		✓		<i>290</i>	<i>290</i>						✓		
	7	<i>80</i>		✓		<i>290</i>	<i>290</i>						✓		
	8	<i>60</i>		✓		<i>290</i>	<i>290</i>						✓		
	9	<i>40</i>		✓		<i>290</i>	<i>290</i>		<i>72</i>	<i>1060</i>			✓	✓	
	10	<i>30</i>		✓		<i>290</i>	<i>290</i>						✓		
	11	<i>20</i>		✓		<i>290</i>	<i>290</i>						✓		
	12	<i>10</i>		✓		<i>287</i>	<i>288</i>						✓		
	13	<i>sfc</i>	✓			<i>290</i>	<i>290</i>		<i>73</i>	<i>1057</i>			✓	✓	
	14	<i>sfc</i>													
	15														
	16														
	17														
	18														
	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

AR29 CTD Cast Sheet

Station Number: *A13*

CTD cast number: *012*

Initials:

Start date, time (UTC): *2018-04-18 00:05*

End date, time (UTC):

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	IFCB S
	1														
	2														
	3														
	4														
	5														
	6														
	7														
	8														
	9														
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	19														
	20														
	21														
	22														
	23														
	24														
	Sam pler														

bad data
abandoned

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

AR29 CTD Cast Sheet

Station Number: A13
 Start date, time (UTC): 2018-04-18 00:35

CTD cast number: 013
 End date, time (UTC): 01:10

Initials: WZ

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	IFCB S
	1	300		✓											
	2	250		✓											
	3	200		✓											
	4	150		✓											
	5	120		✓											
	6	100	✓	✓									✓		
	7	100				290	290								
	8	80	✓	✓		290	290						✓		
	9	80													
	10	60	✓	✓		290	290		74	1060			✓	✓	
	11	60													
	12	40	✓	✓		290	290						✓		
	13	40													
	14	30		✓											
	15	20	✓	✓		290	290						✓		
	16	20													
	17	10		✓											
	18	Sfc	✓	✓		290	290		75	1057			✓	✓	
	19	Sfc													
	20														
	21														
	22														
	23														
	24														
	Sampler														

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

AR29 CTD Cast Sheet

Station Number: **A14**
 Start date, time (UTC): **2018-04-18 01:55**

CTD cast number: **014**
 End date, time (UTC): **02:19**

Initials: **WR**

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	IFCB S
	1	300		✓											
	2	250		✓											
	3	200		✓											
	4	150		✓		290	290						✓		
	5	120		✓		290	291						✓		
	6	100		✓		290	290						✓		
	7	80		✓		290	290						✓		
	8	60		✓		290	290		76	1060			✓	✓	
	9	40		✓		290	290						✓		
	10	30		✓											
	11	20		✓		290	290						✓		
	12	10		✓											
	13	Sfc		✓		290	290		77	1057			✓	✓	
	14	Sfc													
	15														
	16														
	17														
	18														
	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

AR29 CTD Cast Sheet

Station Number: **A5**
 Start date, time (UTC): **4/13/18 1030**

CTD cast number: **15**
 End date, time (UTC): **1050**

Initials: **DJM**

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	IFCB S
10mab	1	70		✓		287	286						✓		
	2	60	✓	✓		290	290						✓		
WS	3	42	✓	✓		290	290						✓		
WS	4	28		✓		290	290						✓		
WS	5	18	✓	✓		290	290		78	1060			✓	✓	
WS	6	11		✓		290	290						✓		
WS	7	sfc	✓	✓		290	290		79	1057			✓	✓	
	8	sfc													
	9														
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	19														
	20														
	21														
	22														
	23														
	24														
	Sam pler														

SUCr
 11
 18
 28
 42

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

SPAR: 220

AR29 CTD Cast Sheet

Station Number: **A14**

CTD cast number: **016**

Initials: **WZ**

Start date, time (UTC): **2018-04-18 16:46**

End date, time (UTC): **17:30**

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	IFCB S
	1	650		✓											
	2	500		✓											
	3	400		✓											
	4	300		✓											
	5	250		✓											
	6	200		✓											
	7	150		✓											
	8	120		✓											
WS	9	100	-	✓											
	10	100													
	11	80	-	✓											
	12	80				290	290						✓		
WS	13	68	-	✓											
	14	68				290	290						✓		
WS	15	43	-	✓											
	16	43				288	281		80	1060			✓	✓	
WS	17	29				290	290						✓		
WS	18	18	-	✓											
	19	18				290	290						✓		
JT	20	18													
WS	21	6		✓		287	187						✓		
WS	22	Sfc	-	✓											
	23	Sfc				290	290		81	1057			✓	✓	
	24	Sfc													
	Sampler														

Surf
 3
 6
 18
 29
 43
 68

Sampling depths - Fixed: Sfc, ⁶10, 20, 30, ~~40~~, ~~60~~, 80, 100, 120, 150, 200, 250, 300, 400, 500, 650
 Floating: Chl max, 10mab, 18, 29, 43, 68 = = =

SPAR: 1000

AR29 CTD Cast Sheet

Station Number: A 14

CTD cast number: 17

Initials: C.Z.

Start date, time (UTC): Apr. 18. 18:30, 2018

End date, time (UTC): Apr 18. 18:40:09, 2018

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	IFCB S
	1	18													
	2	18													
	3	18													
	4	18													
	5	18													
	6	18													
	7	18													
	8	18													
	9	18													
	10	18													
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	19														
	20														
	21														
	22														
	23														
	24														
	Sampler														

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

Chris: 18, 10 bot

AR29 CTD Cast Sheet

Station Number: **A15**

CTD cast number: **18**

Initials: **C.Z.**

Start date, time (UTC):
2018 Apr 18 19:25:27

End date, time (UTC):
2018 Apr 18 19:57:25

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	IFCB S
	1														
	2														
	3														
	4														
	5														
	6														
	7														
	8														
	9														
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	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

AR29 CTD Cast Sheet

Station Number: **A16.**

CTD cast number: **19**

Initials: **C.Z.**

Start date, time (UTC):

End date, time (UTC):

2018 Apr 18 21:00:

2018 Apr 18 21:25:48

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	IFCB S
	1	650		✓							✓				
	2	500		✓							✓				
	3	400		✓							✓				
	4	300		✓											
	5	250		✓							✓				
	6	200		✓											
	7	150		✓											
	8	120		✓							✓				
	9	100		✓											
WS	10	79	✓	✓									✓		
	11	79									✓				
WS	12	53		✓		290	290		82	1060			✓	✓	
	13	40		✓							✓				
	14	34		✓		290	290						✓		
	15	22		✓		290	290						✓		
	16	16		✓		290	290				✓		✓		
	17	8		✓		287	288						✓		
WS	18	surf	✓	✓		290	290		83	1057	✓		✓	✓	
	19	surf				290	290								
	20														
	21														
	22														
	23														
	24														
	Sam														
	pler														

(WS)
 SUI
 8
 16
 22
 34
 S3
 79
 (200)
 Surf
 79
~~Surf~~
~~Surf~~

Sampling depths – Fixed: Sfc, 10, 20, 30, 40, 60, 80, 100, 120, 150, 200, 250, 300, 400, 500, 650
 Floating: Chl max, 10mab, 22, 34, 53, 79, 100, 120, 150, 200, 250, 300, 400, 500, 650

SPAR = 2.50×10^2 surf

2.5 → 50 m

-3

AR29 CTD Cast Sheet

Station Number: **A17**
 Start date, time (UTC): **2018 April 22:16:09**

CTD cast number: **20** Initials: **C.Z.**
 End date, time (UTC): **2018 April 22:45:22**

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	IFCB S
	1														
	2														
	3														
	4														
	5														
	6														
	7														
	8														
	9														
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	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

AR29 CTD Cast Sheet

Station Number: **A18**

CTD cast number: **21**

Initials: **C.Z.**

Start date, time (UTC):

End date, time (UTC):

2018 Apr 18 23:25:34

2018 Apr 18 23:58:14

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	IFCB S
	1														
	2														
	3														
	4														
	5														
	6														
	7														
	8														
	9														
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	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

DAVPR was NOT used for this cast!!!

AR29 CTD Cast Sheet

Station Number: **A13**

CTD cast number: **22**

Initials: **C.Z.**

Start date, time (UTC):

End date, time (UTC):

2018 Apr 19 02:01:35

2018 Apr 19

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	IFCB S
	1														
	2														
	3														
	4														
	5														
	6	Touch				Bottom out					<u>488 m</u>				
	7														
	8														
	9														
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	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

VPR off

AR29 CTD Cast Sheet

Station Number: **A13**

CTD cast number: **23**

Initials: **C.Z.**

Start date, time (UTC): **2018 Apr 19 03:14:05**

End date, time (UTC): **2018 Apr 19 03:44:38**

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	IFCB S
	1														
	2														
	3														
	4														
	5														
	6														
	7														
	8														
	9														
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	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

VPR off

AR29 CTD Cast Sheet

Station Number: **A12**
 Start date, time (UTC): **04:30**
2018 Apr 19

CTD cast number: **24.**
 End date, time (UTC): **04:40**

Initials: **WZ**

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	IFCB S
	1														
	2														
	3														
	4														
	5														
	6														
	7														
	8														
	9														
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	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

AR29 CTD Cast Sheet

Station Number: **A11**
 Start date, time (UTC): **05 10**
2018-04-19

CTD cast number: **25**
 End date, time (UTC): **05 25**

Initials: **WZ**

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	IFCB S
	1														
	2														
	3														
	4														
	5														
	6														
	7														
	8														
	9														
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	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

AR29 CTD Cast Sheet

Station Number: **A10**
 Start date, time (UTC): **2018-04-19 05:55**

CTD cast number: **26**
 End date, time (UTC): **06:11**

Initials: **WZ**

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	IFCB S
	1														
	2														
	3														
	4														
	5														
	6														
	7														
	8														
	9														
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	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

AR29 CTD Cast Sheet

Station Number: **A9**
 Start date, time (UTC): **2018-04-19 0647**

CTD cast number: **27**
 End date, time (UTC): **0658**

Initials: **WZ**

Floater ID	Bottle	Target Depth	TOI	Nuis	¹⁴ C	Chl a vol	Chl b vol	BSI	HPLC ID	HPLC vol	CO ₂	C/N	FCM	IFCB	IFCB S
	1														
	2														
	3														
	4														
	5														
	6														
	7														
	8														
	9														
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	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

AR29 CTD Cast Sheet

Station Number: **A8**
 Start date, time (UTC): **2018-04-19 07:30**

CTD cast number: **28**
 End date, time (UTC): **07:45**

Initials: **W2**

Floater ID	Bottle	Target Depth	TO	Nuts	¹⁴ C	Chl a vol	Chl b vol	BSI	HPLC ID	HPLC vol	CO ₂	C/N	FCM	IFCB	IFCB S
	1														
	2														
	3														
	4														
	5														
	6														
	7														
	8														
	9														
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	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