Cruise: 3290 - AE1303	Leg: 1	Cast: 1 GF290C1.hex	Type: PITS PROFILE Cast 0 - 1200
Date: 11 Feb 2013 Time: 2357	Lat: 31° 39.924 N	Long: 64° 10.082 W	Samplers: No Samples
Date: 12 Feb 2013 Time: 0052	Lat: 31° 39.755 N	Long: 64° 10.148 W	

Niskin #	Depth	Niskin temp	Oxygens	DIC Bates	DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus/ Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChlA
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Cruise:	BATS 290 - AE1303			Leg:	1	Cast:	2 GF290C2.hex			Type:	PEL #1 (0-500m)							
Date:	12 Feb 2013		Time:	1340		Lat:	31° 39.986 N		Long:	64° 10.128 W	Samplers:	Natasha, Matt						
Date:	12 Feb 2013		Time:	1411		Lat:	31° 39.946 N		Long:	64° 10.071								

Niskin #	Depth	Niskin temp	~~Oxygens~~ N^{15} ProFlow	DIC Bates	DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus/ Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChlA
1	1		x														
2	1		x														
3	1		x														
4	1		x														
5	20		x														
6	20		x														
7	20		x														
8	20		x														
9	70		x														
10	70		x														
11	70		x														
12	70		x														
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Cruise: BATS 290 / AE 1303	Leg: 1	Cast: 3 GF290C3 - HEX	Type: Deep Core Cast
Date: 12 Feb 2013 Time: 1619	Lat: 31° 39.635 N	Long: 64° 10.051 W	Samplers: Matt, Vee, Jo, Steve, Mary
Date: 12 Feb 2013 Time: 2030	Lat: 31° 37.807 N	Long: 64° 10.928 W	

Niskin #	Depth	Niskin temp	Oxygens	DIC Bates	DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus/ Probes	POC/N vol = 3	Psi vol = 2	POP vol =	HPLC/FCM vol =	~~CHA~~ CDOM
1	600	15.3	301 401, 408			B290-16		301	B290-16 A,B				B290-16	B290-16			
2	700	13.4	302			-17		302	17 A,B				-17	-17			
3	800	11.8	303 401 402			-18		303	18 A,B		B290-15		-18	-18			
4	900	10.2	304			-19		304	19 A,B				-19	-19			
5	1000	9.1	305			-20		305	20 A,B			10 A,B	-20	-20			
6	1100	8.5	306					306	21 A,B								
7	1200	8.2	307					307	22 A,B								
8	1300	8.4	308					308	23 A,B		16						
9	1400	8.2	309			-21		309	24 A,B								21
10	1600	8.3	312 403 404					310	25 A,B								22
11	1800	7.6	313			-22		311	26 A,B								
12	2000	7.7	314					312	27 A,B		17						23
13	2200	8.1	315					313	28 A,B			11 A,B					
14	2400	7.1	316			-23		314	29 A,B								
15	2600	6.8	317					315	30 A,B								
~~16~~	~~3000~~		~~318~~			~~24~~		~~316~~	~~31 A,B +5A~~		~~18~~						
16 ~~17~~	3000	6.6	319			24		317	32 A,B +5A		18						24
17 18	3400	6.3	320			25		318	33 A,B								
18 19	3800	6.2	321			26		319 323	34 A,B								
19 20	4000	5.8	322			27		320 324	35 A,B +5A		19						
20 21	4200	5.9	323			28		321 325	36 A,B								
21 22	4530 bot.	6.7	324 405 406			29		322 326	37 A,B		20	12 A,B					
23																	
24																	

100 Kar 4

missing

Cruise: B290/AE1303	Leg: 1	Cast: 4 GF290C4.hex	Type: ~~Produtio~~ Production Cast 0-500m
Date: 13 Feb 2013 Time: 0740	Lat: 31° 39.943 N	Long: 64° 10.476 W	Samplers: Steve, Matt, Natasha, Violetta, Joanna
Date: 13 Feb 2013 Time: 0822	Lat: 31° 39.791 N	Long: 64° 10.588 W	

Niskin #	Depth	Niskin temp	~~Oxygens~~ 14C Production	DIC Bates	DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus/ Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChlA
1	1		~~2~~ 3xR/1d/1T														
2	1																01
3	20		"														
4	20																02
5	40		"														
6	40																03
7	60		"														
8	60																04
9	80		"														
10	80																05
11	100		"														
12	100																06
13	120		"														
14	120																07
15	140		"														
16	140																08
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Cruise: BATS290 / AE1303	Leg: 1	Cast: 5 GF290C5.hex	Type: BATS Shallow Core 0-500-
Date: 13 Feb 2012 Time: 1313	Lat: 31° 39.108 N	Long: 64° 9.710 W	Samplers: Violetta, Matt, Steve, Joanna, Mary
Date: 13 Feb 2012 Time: 1400	Lat: 31° 38.940 N	Long: 64° 9.845 W	

Niskin #	Depth	Niskin temp	Oxygens	DIC Bates	DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP/SRP/APA	Bact.	Virus/Probes	POC/N vol = 2L	Psi vol = 2L	POP vol = 4L	HPLC/FCM vol = 4L	ChlA
1	1	19.8	413 215 216	+R B290 -1		B290 -1	B290 -1	401	B290 1A,B	B290 -1						B290 -1	
2	1										B290 -1	P1	B290 -1	B290 -1	B290 -1		
3	10	19.8	414	-2	R10691 R10692	-2		402	2A,B	-2						-2	
4	10				1133 1137						-2		-2	-2	-2		
5	20	19.8	415	-3		-3		403	3A,B	-3						-3	
6	20										-3		-3	-3	-3		
7	~~40~~		~~416~~	~~+R -4~~		~~-4~~	~~-2~~	~~404~~	~~4A,B~~	~~-4~~						~~-4~~	
8	40	19.8	416	+R -4		-4	-2	404	4A,B	-4	-4	P2	-4*	-4*		-4	
9	60	19.8	417	-5		-5	-3	405	5A,B	-5						-5	
10	60										-5		-5	-5	-5		
11	80	19.8	418	-6		-6	-4	406	6A,B	-6						-6	
12	80										-6	P3	-6	-6	-6		
13	100	19.8	419	-7		-7	-5	407	7A,B	-7						-7	
14	100										-7		-7	-7	-7		
15	120	19.7	420	-8		-8		408	8A,B	-8						-8	
16	120										-8	P4	-8	-8	-8		
17	140	19.5	421 217 218	-9		-9	-6	409	9A,B	-9						-9	
18	140										-9		-9	-9	-9		
19	160	19.3	422	-10		-10	-7	410	10A,B	-10						-10	
20	160										-10	P5	-10	-10	-10		
21	200	18.9	423	-11		-11	-8	411	11A,B	-11						-11	
22	200										-11	P6	-11	-11	-11		
23	250	18.7	424 219 220	+R -12		-12	-9	412	12A,B	-12						-12	
24	250										-12	P7	-12	-12	-12		

* 1.5 Litres only

Cruise: B290 / AE1303	Leg: 1	Cast: 6 GF290C6.hex	Type: MW, MD, BBOP 500m
Date: 13 Feb 2013 Time: 1835	Lat: 31° 37.494 N	Long: 66° 09.168 W	Samplers: Joanna, Matt, Steve, Mary, Joanna, Natasha
Date: 13 Feb 2013 Time: 1922	Lat: 31° 37.025 N	Long: 66° 09.443	

Niskin #	Depth	Niskin temp	Oxygens	DIC Bates	~~DIC Keeling~~	TOC/N	Sugars	Salts	Nuts	(TDP)/ SRP / APA	Bact.	Virus/ Probes	~~POC/N vol =~~		~~Psi vol =~~	POP vol = 4	HPLC/FCM vol = 4	~~CHA~~ POC/N (3e)
					Bacterial DNA								CHI	AP	CDOM			
1	1				B290-1								1	1	1			
2	10												2					
3	20												3	2	2			
4	20																	
5	40												4			B290-4	B290-4	
6	40				2								5	3	3			
7	60																	
8	60												5	4	4			
9	80				3								6	5	5			
10	100												7	6	6			
11	100																	
12	120				4								8	7	7			
13	140												9		8			
14	140																	
15	160				5								10		9			
16	200				6								11		10			
17	200																	
18	250				7								12	8	11			
19	300	19.4	222	B290-13		B290-13	B290-10	413	B290-13A,B	B290-13	B290-13	P8						B290-13
20	300				8										12	13		
21	400	18.2	223	-14		-14		415	14A,B	-14	-14							-14
22	400														13	14		
23	500	17.4	224	-15		-15		416	15A,B	-15		P9a,b						-15
24	500														14	15		

Cruise: B290 / AS 12.18 / AE1303				Leg: 1		Cast: 7 GF290C7.hex				Type: Prod. Recovery 1000m							
Date: 13 Feb 13			Time: 2103	Lat: 31° 36.084 N			Long: 64° 09.363			Samplers: Matt, Joanna, Violetta, Natasha							
Date: 13 Feb 13			Time: 2215	Lat: 31° 35.416 N			Long: 64° 09.641										
Niskin #	Depth	Niskin temp	~~Oxygens~~ 3H-RP	~~DIC Bates~~ COOM	DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus/ Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChlA
1	1		1														
2	20		2														
3	40		3														
4	60		4														
5	80		5														
6	100		6														
7 MIS FIRED	120		7														
8	140		8														
9	200		9														
10	300		10														
11	400		11														
12	500		12														
13 MIS FIRE	600		13														
14	700 ~~800~~			✓													
15	800			✓													
16	900 ~~1000~~			✓													
17	1000		14														
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Cruise: BATS 290 / AE 1303	Leg: 1	Cast: 8 GF 290C8.hex	Type: Moisander Timeshare 0-500m
Date: 14 Feb 2013 Time: 0148	Lat: 31° 40.187 N	Long: 64° 09.889	Samplers: Steve
Date: 14 Feb 2013 Time: 0225	Lat: 31° 40.002 N	Long: 64° 09.997	

Niskin #	Depth	Niskin temp	~~Oxygens~~ DNA	POM ~~DIC Bates~~	NO_3 ~~DIC Keeling~~	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus/ Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChlA
1	1		2749 2750 B290-1	624													
2	1																
3	20		2751 2752 -2	625													
4	20																
5	60		2753 2754 -3	626	107												
6	60																
7	100		2755 2756 -4	627	108												
8	100																
9	160		2757 2758 -5	628	109												
10	160																
11	200		2759 2760 -6	629	110												
12	200																
13	250				111												
14	300				112												
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Cruise: BATS 290 / AE 1303	Leg: 1	Cast: 9 GF290C9.hex	Type: Profile 0 - ~~1200~~ 500
Date: 15 Feb 2013	Time: 0020	Lat: 31° 32.534 N	Long: 64° 05.054	Samplers: No Samples
Date:	Time:	Lat:	Long:	

Niskin #	Depth	Niskin temp	Oxygens	DIC Bates	DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus/ Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChlA
1																	
2																	
3																	
4																	
5			CAST ABORTED	DUE	TO	HIGH	TENSION	ALARM	AT	22	METRES						
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Cruise: BATS 290 / AE 1303				Leg: 1		Cast: 10 GF290C10.hex				Type: BATS PITS RECOVERY PROFILE 0-500							
Date: 15 Feb 2013			Time: 0351	Lat: 31° 32.415 N			Long: 64° 05.456 W			Samplers: No Samples							
Date: 15 Feb 2013			Time: 0420	Lat: 31° 32.341 N			Long: 64° 05.585 W										
Niskin #	Depth	Niskin temp	Oxygens	DIC Bates	DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus/ Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChlA
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	