

Cast #29
Filename200416-029
Station NameCB-12

Start: 18 Aug 2004
Bottom: 18 Aug 2004
End: 18 Aug 2004

Time (UTC)
03:10
04:31
05:43

Latitude N
77°41.46'N
77°41.60'N
77°41.66'N

Longitude W
146°24.65'W
146°22.97'W
146°21.45'W

Water Depth
3759m - Sounding
3791m bar
3804m + 42m
CTD + ALT (m)

Cast Depth
CTD (m)

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC dup	TOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	CDOM	TOTAL CHL a 0.7u	TOTAL CHL a 0.7u DUP	CHL a Size 5u	CHL a Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size
1	437		V BOT	3879	OK	✓	2074								✓		✓																
2	438		3200	3200			2085									✓																	
3	439		2400	2400			2086	✓ 2087										✓	✓	✓	✓	✓											
4	440		2000	2000			2088									✓																	
5	441		1600	1600			2089																										
6	442		1500	1500			2090																										
7	443		1000	1000			2091																										
8	444		800	800			2092	✓ 2093																									
9	445		600	590			2095																										
10	446		500	500			2096											✓															
11	447	34.8	366	366			2098									✓																	
12	448	34.6	283	283			2099							✓					✓		✓												
13	449	34.4	218	218			3003				✓																						
14	450	34.1	176	176			3004	✓ 3006						✓																			
15	451	33.75	156	156			3007				✓																						
16	452	33.4	140	140			3009											✓		✓		✓											
17	453	33.1	129	129			3010				✓✓																						
18	454	32.75	102	102			3012				✓																						
19	455	32.6	92	92			3016				✓																						
20	456	32.3	73	73			3018				✓																						
21	457	31.8	50	50			3019				✓																						
22	458		CHL MAX	36			3023				✓																						
23	459		25	25			3028				✓✓																						
24	460		5	5		✓	3024				✓	✓			✓		✓		✓		✓												

Comments : C13 - stoppered before adding HgCl₂ - so stopper removed, HgCl₂ added, stopper replaced
OXY - sampled Nisk 24-1
TOC - 2-3 lids replaced; dropped.

Bottles tripped on Up cast or Down cast: ☒ UP
Caps on Ba and salinity re-tightened after warming? ☒
Tighten cap and Parafilm on O-18 at room temp? ☒

Caps on DOC re-tightened after freezing? ☒
Oxygen flask stoppers covered with seawater? ☒
Oxygen flasks shaken twice? ☐

2

Cast # 28
Filename 200416-028.dat
Station Name CB-11(2)

Start: 16 AUG 04 14:30
Bottom: 16 AUG 04 16:05
End: 16 AUG 04 17:31

Date (UTC) 16 AUG 04
Time (UTC) 14:30
Latitude N 78°59.98'N
Longitude W 150°00.02'W
Water Depth 3815m
Cast Depth 3811m

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC dup	TOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	CDOM	TOTAL CHLa	TOTAL CHLa 0.7u	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size
1	413		BOT	3888		✓	3034		✓	✓	✓	✓	✓	✓	✓		✓																
2	414		3200	3200			3037	3038																									
3	415		2400	2400			3039									✓		✓	✓	✓	✓	✓											
4	416		2000	2000			3043				✓																						
5	417	1600	1600	1600			3040									✓																	
6	418		1500	1500			3047																										
7	419		1000	1000			3048	3051																									
8	420		800	800			3052																										
9	421		600	600			3055																✓										
10	422		500	500			3057											✓															
11	423	34.8	336	336			3058									✓			✓		✓		✓										
12	424	34.6	244	244			3061							✓																			
13	425	34.4	209	209			3063	3065						✓																			
14	426	34.1	170	170			3067							✓																			
15	427	33.75	151	150			3069				✓																						
16	428	33.1	137	✓			3075		✓	✓	✓	✓	✓	✓				✓	✓		✓												
17	429	33.1	122	✓			3082		✓	✓	✓	✓	✓	✓										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18	430	32.75	100	✓			3084		✓																								
19	431	32.6	92	✓			3092							✓																			
20	432	32.3	74	✓			3094				✓																						
21	433	31.8	55	✓			3096			✓			✓	✓																			
22	434		28	✓			3097																										
23	435		25	✓			3098							✓																			
24	436		5	✓		✓	3100		✓		✓	✓	✓	✓					✓														

Comments :

TOC # 432 & 427 broken on freezing - too full.

Bottles tripped on Up cast or Down cast? ☒ Up
Caps on Ba and salinity re-tightened after warming? ☒
Tighten cap and Parafilm on O-18 at room temp? ☒

Caps on DOC re-tightened after freezing? ☒
Oxygen flask stoppers covered with seawater? ☒
Oxygen flasks shaken twice? ☐

Rosette sampling log Mission 2004-16

Vessel CCGS Louis S. St-Laurent

Copy

Cast # 28 Start: _____ Date (UTC) _____ Time (UTC) _____ Latitude N _____ Longitude W _____ Water Depth _____ Cast Depth _____

Filename _____ Bottom: _____

Station Name CB-11(2) End: _____

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	✓ Diss. OXY	OXY FLASK #	OXY DUP FLASK #	✓ DIC	DIC dup	✓ TOC	✓ C-13	C-13 DUP	✓ BACTERIA	✓ SALINITY	SAL DUP	✓ NUTRIENTS	NUTS DUP	✓ O18	O18 DUP	✓ Ba	Ba DUP	CDOM	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size
1	413		BOT			✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓											
2	414		3500					✓																									
3	415		3000													✓		✓	✓	✓	✓	✓											
4	416		2500								✓	✓																					
5	417		2000													✓																	
6	418		1500																														
7	419		1000																														
8	420		800																														
9	421		600																				✓										
10	422		500															✓															
11	423	34.8												✓		✓			✓		✓	✓											
12	424	34.6												✓																			
13	425	34.4												✓																			
14	426	34.1												✓																			
15	427	33.8												✓																			
16	428	33.4		33.1					✓	✓	✓	✓	✓	✓				✓	✓		✓	✓											
17	429	33.1							✓	✓	✓	✓	✓	✓										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18	430	32.75							✓	✓	✓	✓	✓	✓																			
19	431	32.6							✓	✓	✓	✓	✓	✓																			
20	432	32.3							✓	✓	✓	✓	✓	✓																			
21	433	31.8							✓	✓	✓	✓	✓	✓																			
22	434		MAX						✓	✓	✓	✓	✓	✓																			
23	435		25						✓	✓	✓	✓	✓	✓																			
24	436		5			✓			✓	✓	✓	✓	✓	✓					✓		✓												

Comments :

Bottles tripped on Up cast or Down cast: ☐
Caps on Ba and salinity re-tightened after warming? ☐
Tighten cap and Parahim on O-18 at room temp? ☐

CDOM
400 + 600

Caps on DOC re-tightened after freezing? ☐
Oxygen flask stoppers covered with seawater? ☐
Oxygen flasks shaken twice? ☐

23

Cast #27

Start:16 AUG 04

Time (UTC)13:02

Latitude N79° 0.00' N

Longitude W150° 0.38' W

Water Depth

Cast Depth214 m

Filename200416_027.dat

Bottom:16 AUG 04

13:24

78° 60.00' N

150° 0.29' W

Station NameCB-11(1)

End:16 AUG 04

13:33

79° 0.00' N

150° 0.24' W

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC dup	TOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	CDOM	TOTAL CHLa	TOTAL CHLa 0.7u	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size
1	403	34.4	206	206	✓	✓	2007								✓		✓						✓	✓						✓		✓	
2	404	33.75	152	152		↓	2014								↓		↓						✓	✓						✓		✓	
3	405	33.1	122	122		↓									↓		↓							✓	✓						✓		✓
4	406	32.75	99	99		↓	2015	2027								✓		✓						✓	✓						✓		✓
5	407	32.6	90	90		↓	2025																✓	✓							✓		✓
6	408	32.3	74	74		↓	2032																	✓	✓						✓		✓
7	409	31.8	55	55		↓	2033																	✓	✓						✓		✓
8	410		CHL MAX 37	37		↓	2035																	✓	✓						✓		✓
9	411		25	25		↓	2043																✓	✓							✓		✓
10	412		5	5		↓	2044								↓		↓						✓	✓							✓		✓
11																																	
12																																	
13																																	
14																																	
15																																	
16																																	
17																																	
18																																	
19																																	
20																																	
21																																	
22																																	
23																																	
24																																	

Cast #26

Filename200416_026

Station NameCB-10

Start:16 Aug 200400=27

Bottom:16 Aug 200402=06

End:16 Aug 200403=10

Latitude N78°19.06'N

Longitude W152°52.44'W

Water Depth3400m - sounding

Cast Depth3427 + 4.5m - Altimeter

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC-dup	TOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	CDOM	TOTAL CHLa	TOTAL CHLa 0.7u	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size
1	379	✓	BOT	3427		✓	2074								✓		✓																
2	380	✓	3600				✓2085	2086								✓																	
3	381	✓	2000				2087											✓	✓	✓	✓	✓											
4	382	✓	1600				2088									✓																	
5	383	✓	1500				2089																										
6	384	✓	1000				2090																										
7	385	✓	800				✓2093	2091																									
8	386	✓	600				2092																										
9	387	✓	400				2095											✓															
10	388	34.8	✓309				2096									✓																	
11	389	34.6	✓240				2098												✓		✓												
12	390	34.4	✓196				2099				✓			✓																			
13	391	34.1	✓162				✓3003	3004						✓																			
14	392	33.75	✓143				3006				✓																						
15	393	33.4	✓130				3007							✓																			
16	394	33.1	✓120				3009				✓			✓				✓		✓	✓												
17	395	33.1	✓																														
18	396	32.75	✓100				3010				✓																						
19	397	32.6	✓92				3012				✓			✓																			
20	398	32.3	✓78				3016				✓																						
21	399	31.8	✓62				3018				✓			✓																			
22	400	✓	MAX	52			3019				✓																						
23	401	✓	25				3023				✓			✓																			
24	402	✓	5				3028				✓	✓		✓	✓		✓		✓		✓												

Comments : no bottle 17 on cast

Bottles tripped on Up cast or Down cast?

Caps on Ba and salinity re-tightened after warming?

Tighten cap and Parafilm on O-18 at room temp?

Up

✓

✓

Caps on DOC re-tightened after freezing?

Oxygen flask stoppers covered with seawater?

Oxygen flasks shaken twice?

✓

✓

Cast # 25

Filename 200416-025.dat

Station Name CB-9(2)

Start: 23-32 14 Aug 04 23 32

Bottom: 15 Aug 04 01 17

End: 15 Aug 2004 03-27 03-29

Latitude N 77° 59.42'

Longitude W 149° 43.14'

Water Depth 3771-sounder so probably 3810

Cast Depth 3822 CTD altimeter 3817m/3893db

ROS BOT #	Samp #	Target Salinity minutes	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC dup	TOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	CDOM	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size
1	355	1 1/2	bottom	3893	✓	✓	2007	2014							✓	✓	✓	✓															
2	356	2	-10	3884	✓		2015																										
3	357	2	-50	3833	✓		2017	2025								✓																	
4	358	2	3733	3690	✓		2027																										
5	359	2	4275	2757	✓		2032	2033								✓		✓															
6	360	2	564-511	535	✓		2035																										
7	361	2 455	511-498	503	✓ mix		2043																										
8	362	2 475	498-458	475	✓ slope		2044																										
9	363	2 450	458-439	451	✓ mix		2047																										
10	364	2 450	439-384	400	✓ slope		2049																										
11	365	2 455	378-352	367	✓ mix		2051																										
12	366	2 471	352-340	346	✓ slope		2056																										
13	367	2 338	340-333	336	✓ mix		2057																										
14	368	2 330	333-328	331	✓ slope		2059																										
15	369	minutes 215	328-309	319	✓ mix		2060																										
16	370	1/2 ✓	160	160.5	✓		2061																										
17	371	2 ✓	160	160.5	✓		2063																										
18	372	5 ✓	160	160.5	✓		2064																										
19	373	1/2 ✓	107	107.2	✓		2068																										
20	374	2 ✓	107	107.2	✓		2069																										
21	375	5 ✓	107	107.2	✓		2073																										
22	376	1/2 ✓	25	25.3	✓		2075																										
23	377	2 ✓	25	25.3	✓		2084																										
24	378	5 ✓	25	25.3	✓	✓	2094								✓		✓																

Comments : Pump not turned on ; Raise to surface + re-lower @ 23:53 going down for second time

Call Wayne

[no bottom contact alarm] when we were 3.5m off bottom

else 12 kHz alarm. 12 kHz

Bottles tripped on Up cast or Down cast: Up w/ stops

Caps on Ba and salinity re-tightened after warming? lighten cap and Parafilm on O-18 at room temp?

Caps on DOC re-tightened after freezing? Oxygen flask stoppers covered with seawater? Oxygen flasks shaken twice?

* 3597db - turned else off to see if this improved alt. - did not improve alt.

26

Cast # 24
Filename 200416-024
Station Name CB-9(1)

Start: 14 Aug 2004
Bottom: 14 Aug 2004
End: 14 Aug 2004

Time (UTC)
18=52
20=30
21=40

Latitude N
78°00.80'N
78°00.28'N
77°59.90'N

Longitude W
149°46.59'W
149°45.04'W
149°44.28'W

Water Depth
3772+7m Sounding
3894 dbar
3817+4m - Altimeter

Cast Depth

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC dup	TOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	CDOM	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/DON	Bio Si	Cell Size
1	331	✓	BOT	3894		✓	3034								✓		✓																
2	332	✓	3500				3037									✓																	
3	333	✓	3000				3038	✓3039																									
4	334	✓	2500				3040											✓	✓	✓	✓	✓											
5	335	✓	2000				3043									✓																	
6	336	✓	1500				3047																										
7	337	✓	1000				3048																										
8	338	✓	800				3051	✓3052																									
9	339	✓	600				3055																✓										
10	340	✓	500				3057											✓															
11	341	34.8		✓349			3058									✓							✓										
12	342	34.6		✓259			3061												✓		✓		✓										
13	343	34.4		✓218			3063							✓									✓	✓									
14	344	34.1		✓178			3065	✓3067						✓									✓										
15	345	33.75		✓158			3069																✓	✓									
16	346	33.4		✓146			3075							✓				✓	✓	✓	✓	✓	✓	✓									
17	347	33.1		✓130			3082							✓										✓									
18	348	32.75		✓107			3084																	✓									
19	349	32.6		✓96			3092							✓									✓	✓									
20	350	32.3		✓178			3094																✓	✓									
21	351	31.8		✓56			3096							✓									✓	✓									
22	352		EMAX	✓36			3097																✓	✓									
23	353	✓25					3098							✓									✓	✓									
24	354	✓5				✓	3100					✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									

Cast # 23

Filename 200416_023

Station Name CB-8

Start: 13 Aug 2004

Bottom: 14 Aug 2004

End: 14 Aug 2004

Date (UTC)

Time (UTC)
23=05
19=43
00=34
01=45

Latitude N
76° 59.20' N
77° 0.04' N
76° 58.74' N
76° 58.27' N

Longitude W
150° 5.81' W
150° 4.28' W
150° 6.04' W
150° 5.61' W

Water Depth
3780 m - sanding
3780 m
382 m + 3 m - Altimeter

Cast Depth
3897 dbar

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	SIC	DIC dup	POC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	CSOM	TOTAL CHL a	TOTAL CHL a	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size
1	307	✓	BOT	3897	✓	✓	3034								✓		✓																
2	308	✓	3500				3037									✓																	
3	309	✓	3000				✓3038	3039																									
4	310	✓	2500				3040										✓	✓	✓	✓	✓	✓											
5	311	✓	2000				3043									✓																	
6	312	✓	1500				3047																										
7	313	✓	1000				3048																										
8	314	✓	800				✓3051	3052																									
9	315	✓	600	580			3055																										
10	316	34.8	✓	498			3057											✓															
11	317	✓	400				3058									✓																	
12	318	34.6	✓	277			3061												✓		✓												
13	319	34.4	✓	216			3063							✓																			
14	320	34.1	✓	188	✓		✓3065	3067						✓																			
15	321	33.75	✓	170	NG		3069																										
16	322	33.4	✓	158	✓		3075							✓				✓		✓		✓											
17	323	33.1	✓	140			3082							✓																			
18	324	32.75	✓	110			3084																										
19	325	32.6	✓	97			3092							✓																			
20	326	32.3	✓	75			3094																										
21	327	31.8	✓	49			3096							✓																			
22	328		PHS	45			3097																										
23	329	✓	25				3098							✓																			
24	330	✓	5		✓	✓	3100					✓		✓	✓		✓		✓		✓												

Comments : Bottle 15 leaked - top o-ring not sealed

Bottles tripped on Up cast or Down cast:

UP

Caps on Ba and salinity re-tightened after warming?

✓

Tighten cap and Parafilm on O-18 at room temp?

✓

Caps on DOC re-tightened after freezing?

Oxygen flask stoppers covered with seawater?

✓

Oxygen flasks shaken twice?

Cast #22
Filename 2004b-022.dat
Station Name CB-7

Start: 13 AUG 2004
Bottom: 13 AUG 2004
End: 13 AUG 2004

Time (UTC)
06:11
07:36
08:47

Latitude N
75° 59.50' N
75° 59.57' N
75° 59.70

Longitude W
149° 53.35' W
149° 51.44' W
149° 50.51' W

Water Depth
3820
3828
3828

Cast Depth
3824

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC dup	TOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	CDOM	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/PON	Bio Si	Cell Size
1	283		BOT	3900		✓	2007								✓		✓																
2	284		3500	3500m!			2014									✓																	
3	285		3000	3000m!			2015	2017																									
4	286		2500	2490			2025											✓	✓	✓	✓	✓											
5	287		2000	2000			2027									✓																	
6	288		1500	1500			2032																										
7	289		1000	1000			2033																										
8	290		800	800			✓2035	2043																									
9	291		600	600			2044																										
10	292		500	500			2047											✓															
11	293	34.8	380	380			2049									✓																	
12	294	34.6	289	289			2051												✓		✓												
13	295	34.4	251	251			2056							✓						✓				✓									✓
14	296	34.1	218	218			✓2060	2057						✓																			
15	297	33.75	200	200			2059																	✓									✓
16	298	33.4	184	184			2061							✓				✓		✓		✓											
17	299	33.1	164	164			2063							✓									✓										✓
18	300	32.75	129	129			2064																✓										✓
19	301	32.6	115	115			2068							✓									✓										✓
20	302	32.3	87	87			2069																✓										✓
21	303	31.8	63	63			2073							✓									✓										✓
22	304		CHLa	38			2075																✓										✓
23	305		25	25			2084							✓									✓										✓
24	306		5	5		✓	2094					✓		✓	✓		✓		✓		✓		✓										✓

Comments : Bottles AWAY: #182, #187, #188
Lat: 76°00.509' N
Long: 149°49.413' W

Bottles tripped on Up cast or Down cast: ☒

Caps on Ba and salinity re-tightened after warming? ☒

Tighten cap and Parafilm on O-18 at room temp? ☒

Caps on DOC re-tightened after freezing? ☐

Oxygen flask stoppers covered with seawater? ☒

Oxygen flasks shaken twice? ☐

3900
3824
40
29

3760 (middle) → 3755 (top) ← 3760 (very bottom)

Cast # 21
Filename 200416-021
Station Name CB-6

Start: 12 Aug 2004
Bottom: 12 Aug 2004
End: 12 Aug 2004

Time (UTC)
00=37
02=40
03=43

Latitude N
74°44.88'N
74°44.03'N
74°43.78'N

Longitude W
147°45.05' W
147°42.96' W
147°42.09' W

Water Depth
3750m - sounder
3865 db + 5m
3791m + 5m

Cast Depth
Scan 7000
3791m + 1
3865 db + 1

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC dup	DOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba.	Ba DUP	CDOM	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size
1	259	✓	BOT	8863		✓	2007								✓		✓																
2	260	✓	3000				2014	✓2015								✓																	
3	261	✓	2500				2017											✓	✓	✓	✓	✓											
4	262	✓	2000				2025									✓																	
5	263	✓	1500				2027																										
6	264	✓	1000				2032																										
7	265	✓	800				2033	✓2035																									
8	266	✓	600				2043																										
9	267	✓	500				2044											✓															
10	268	34.8	✓	391			2047									✓																	
11	269	34.6	✓	302			2049																										
12	270	34.4	✓	265			2051							✓					✓		✓		✓										✓
13	271	34.1	✓	235			2056	✓2060						✓										✓									
14	272	33.75	✓	216			2057																	✓									✓
15	273	33.4	✓	196			2059							✓				✓						✓									✓
16	274	33.1	✓	177			2061							✓										✓									✓
17	275	32.75	✓	150																													
18	276	32.75	✓	140			2063																	✓									✓
19	277	32.6	✓	120			2064							✓										✓									✓
20	278	32.3	✓	97			2068																	✓									✓
21	279	31.8	✓	72			2069							✓										✓									✓
22	280		CHL max	✓55			2073																	✓									✓
23	281		25	✓			2075							✓										✓									✓
24	282		5	✓		✓	2084					✓		✓	✓		✓		✓		✓			✓									✓

Comments : no bottle #17 on rosette

Bottles tripped on Up cast or Down cast: ☒ UP

Caps on Ba and salinity re-tightened after warming? ☒

Tighten cap and Parafilm on O-18 at room temp? ☒

Caps on DOC re-tightened after freezing? ☐

Oxygen flask stoppers covered with seawater? ☒

Oxygen flasks shaken twice? ☐

* Skipped #13 dup Oxy - 50 transferred labels no 17

Cast # 20
Filename 200416-020.dat
Station Name CB-5

Start: 11 AUG 04 09:32
Bottom: 11 AUG 04 11:36
End: 11 AUG 04 13:02

Date (UTC) 11 AUG 04
Time (UTC) 09:32
Latitude N 75°19.86'N
Longitude W 152°28.37'W
Water Depth 3800
Cast Depth 3911 dbar
3836m

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC dup	TOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	CDOM	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size	
1	235		BOT	3911		✓	3034								✓		✓																	
2	236		3000	3000			✓3037	3038								✓																		
3	237		2500	2500			3039											✓	✓	✓	✓	✓												
4	238		2000	2000			3040									✓																		
5	239		1500	1500			3051																											
6	240		1000	1000	✓		3043																											
7	241		800	800	✓		✓3047	3048																										
8	242		600	600	✓		3052																✓											
9	243		500	500	✓		3055											✓																
10	244	34.8	392	392			3057									✓							✓											
11	245	34.6	295	295			3058																											
12	246	34.4	257	257			3061							✓						✓	✓													
13	247	34.1	220	220			✓3063	3065						✓																				
14	248	33.75	206	206			3067																✓											
15	249	33.4	189	184			3069							✓				✓		✓		✓												
16	250	33.1	164	164			3075							✓								✓												
17	251	32.75	140	140																														
18	252	32.75	131	131			3082																											
19	253	32.6	118	118			3084							✓									✓											
20	254	32.3	93	93			3092																											
21	255	31.8	71	71			3094							✓									✓											
22	256		CHL MAX 40				3096																✓											
23	257		25	25			3097							✓									✓											
24	258		5	5		✓	3098					✓		✓	✓		✓		✓		✓		✓											

Comments : no bottle # 17

Bottles tripped on Up cast or Down cast? ☒ UP
Caps on Ba and salinity re-tightened after warming? ☒
Tighten cap and Parafilm on O-18 at room temp? ☒

Caps on DOC re-tightened after freezing? ☐
Oxygen flask stoppers covered with seawater? ☒
Oxygen flasks shaken twice? ☐

Slowed down to 0.5m/s from 1.0 m/s here. Should have been at 400m.

3

Cast #19

Filename200416-019

Station NameCB-4

Start:10 Aug 2004

Bottom:10 Aug 2004

End:11 Aug 2004

Time (UTC)21=16

Time (UTC)23=08

Time (UTC)00=17

Latitude N75°4.90'N

Latitude N75°4.91'N

Latitude N75°4.81'N

Longitude W149°49.99'W

Longitude W149°45.01'W

Longitude W149°42.57'W

Water Depth3800m - sounding

Water Depth3758m + 5m

Water Depth37

Cast DepthScan=133 SD

Cast Depth3831 dbar

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	BIC	DIC dup	TOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	CDOM	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size
1	211	✓BOT	3831			✓	2007								✓		✓																
2	212	✓3000	3000			1	2014	✓2015								✓																	
3	213	✓2500	2500				2017											✓	✓	✓	✓	✓											
4	214	✓2000					2025									✓																	
5	215	✓1500					2027																										
6	216	✓1000					2032																										
7	217	✓800					2033	✓2035																									
8	218	✓600					2043																✓										
9	219	✓500	slowdown				2044											✓															
10	220	34.8	✓380				2047									✓							✓										
11	221	34.6	✓298				2049												✓		✓												
12	222	34.4	✓259				2051							✓									✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13	223	34.1	✓233				2056	✓2057						✓											✓	✓	✓	✓	✓	✓	✓	✓	✓
14	224	33.75	✓215				2059																✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15	225	33.4	✓195				2060							✓				✓				✓			✓	✓	✓	✓	✓	✓	✓	✓	✓
16	226	33.1	✓173				2064							✓								✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17	227	32.75	✓150	→ 1	?135																												
18	228	32.75	✓140	→ 110	?130		2063																✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19	229	32.6	✓126				2061							✓								✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
20	230	32.3	✓98	→ 5			2068																✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
21	231	31.8	✓70				2069							✓					✗				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
22	232	✓CHL MAX	50				2073															✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
23	233	✓25					2075							✓								✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24	234	✓5					2084					✓		✓	✓		✓		✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

check this?!

3758 m + 5 m
from what source

I thought

check this?!

3758m + 5m
from what source?
I thought

Comments : - no bottle 17 on rosette

#231 O18 bottle broke

Bottles tripped on Up cast or Down cast?

Caps on Ba and salinity re-tightened after warming?

Lighten cap and Parafilm on O-18 at room temp?

Caps on DOC re-tightened after freezing?

Oxygen flask stoppers covered with seawater?

Oxygen flasks shaken twice?

Cast #18

Filename200416-018

Station NameCB-3

Start:09 Aug 2004

Bottom:10 Aug 2004

End:10 Aug 2004

Time (UTC)22=35

00=10

01=38

Latitude N73°56.22'N

173°55.58'N

173°55.18'N

Longitude W150°1.53'W

150°0.92'W

150°0.67'W

Water Depth3800m

37+5m

Cast Depth3900

3900dbar

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC dup	TOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	CHL a	TOTAL CHL a 0.7u	TOTAL CHL a 0.7u DUP	CHL a Size 5u	CHL a Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/PON	Bio Si	Cell Size
1	187	✓	BOT	3900		✓	3034								✓		✓																
2	188	✓	3000	3000			✓3037	3038								✓																	
3	189	✓	2500	2500			3039											✓	✓	✓	✓												
4	190	✓	2000	2000			3040									✓																	
5	191	✓	1500	1500			3051																										
6	192	✓	1000	1000			3043																										
7	193	✓	800	801			✓3047	3048																									
8	194	✓	600	600			3052																										
9	195	✓	500	500	slowly		3055											✓															
10	196	34.8	✓	398			3057									✓																	
11	197	34.6	✓	295			3058												✓														
12	198	34.4	✓	258			3061							✓									✓										✓
13	199	34.1	✓	234			✓3063	3065						✓																			✓
14	200	33.75	✓	214			3067																✓										✓
15	201	33.4	✓	190			3069							✓				✓															✓
16	202	33.1	✓	175			3075							✓					✓			✓		✓									✓
17	203	32.75	✓	160										✓									✓										✓
18	204	32.75	✓	145			3082																✓										✓
19	205	32.6	✓	130			3084							✓									✓										✓
20	206	32.3	✓	104			3092																✓										✓
21	207	31.8	✓	80			3094							✓									✓										✓
22	208		CHL a 50	50			3096							✓									✓										✓
23	209		25	✓ 25			3097							✓									✓										✓
24	210		5	✓ 5		✓	3098					✓		✓									✓										✓

Comments : Bottle 17 removed

← = Stop to calibrate CTD ? - JEB-C

Bottles tripped on Up cast or Down cast: ☒ UP
Caps on Ba and salinity re-tightened after warming? ☒
Tighten cap and Parafilm on O-18 at room temp? ☒

Caps on DOC re-tightened after freezing? ☒
Oxygen flask stoppers covered with seawater? ☒
Oxygen flasks shaken twice? ☒

check Bot Depth ✓ done

labels
33

Cast # 17

Filename 200416-017.dat

Station Name CB-2

Start: 9 AUG 2004

Bottom: 9 AUG 2004

End: 9 AUG 2004

Time (UTC) 09:55

Time (UTC) 11:23

Time (UTC) 12:35

Latitude N 73° 0.21'

Latitude N 73° 0.41'

Latitude N 73° 0.75'

Longitude W 150° 4.22'

Longitude W 150° 4.20'

Longitude W 150° 3.86'

Water Depth 3705m

Water Depth 3705m

Water Depth 3705m

Cast Depth 3670

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC dup	TOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	CDOM	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/PON	Bio Si	Cell Size
1	163		BOT	3740	✓	✓	2007								✓		✓																
2	164		3000	3000	✓	✓	2014	✓2015							✓	✓	✓																
3	165		2500	2500	✓	✓	2017								✓		✓	✓	✓	✓	✓	✓											
4	166		2000	2080	✓	✓	2025								✓	✓	✓																
5	167		1500	1500	✓	✓	2027								✓		✓																
6	168		1000	1000	✓	✓	2032								✓		✓																
7	169		800	800	✓	✓	2033	✓2035							✓		✓																
8	170		600	600	✓	✓	2043								✓		✓																
9	171		500	500	✓	✓	2044								✓		✓	✓					✓										
10	172	34.8	375	375	✓	✓	2047								✓	✓	✓						✓										
11	173	34.6	269	269	✓	✓	2049								✓		✓																
12	174	34.4	238	238	✓	✓	2051								✓		✓							✓									
13	175	34.1	213	213	✓	✓	2056	✓2057						✓	✓		✓																
14	176	33.75	195	195	✓	✓	2059							✓	✓		✓						✓										
15	177	33.4	170	173	✓	✓	2060							✓	✓		✓	✓	✓	✓	✓	✓	✓										
16	178	33.1	159	159	✓	✓	2061							✓	✓		✓						✓	✓									
17	179	32.75	135	135																													
18	180	32.75	126	126	✓	✓	2063							✓	✓		✓							✓									
19	181	32.6	110	110	✓	✓	2064							✓	✓		✓						✓	✓									
20	182	32.3	84	84	✓	✓	2068							✓	✓		✓																
21	183	31.8	58	58	✓	✓	2069							✓	✓		✓						✓	✓									
22	184		CHL MAX ⁵⁰	50	✓	✓	2073							✓	✓		✓						✓	✓									
23	185		25	25	✓	✓	2075							✓	✓		✓						✓	✓									
24	186		5	5	✓	✓	2084					✓		✓	✓		✓						✓	✓									

Comments : No bottle #17 on rosette
Save water from 3000+ shallower for Rick
Large hysteresis in O₂ sensor at depth

Bottles tripped on Up cast or Down cast?☒

Caps on Ba and salinity re-tightened after warming?☒

Tighten cap and Parafilm on O-18 at room temp?☒

Caps on DOC re-tightened after freezing?☐

Oxygen flask stoppers covered with seawater?☒

Oxygen flasks shaken twice?☒

Dmfter bottles #155, 156, 159.

Cast # 16
Filename 200416_016.dat
Station Name B1 CABOS-2

Start: 07 AUG 04 14:31
Bottom: 07 AUG 04 14:58
End: 07 AUG 04 15:20

Date (UTC) 07 AUG 04
Time (UTC) 14:31
Latitude N 71° 46.60'
Longitude W 131° 46.16'
Water Depth 1080
Cast Depth 1090 db

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC dup	TOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	CDOM	TOTAL CHLa	TOTAL CHLa 0.7u	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size	
1	143		BOT	1090	✓	✓	2007								✓		✓																	
2	144		1000	1000	✓		2014								✓	✓	✓		✓	✓	✓	✓												
3	145		800	800	✓		2015	2068								✓																		
4	146		600	600	✓		2017																											
5	147		500	500	✓		2025											✓																
6	148		400	450	✓		2027	2069																										
7	149	34.8	403	402	✓		2032									✓																		
8	150	34.6	266	266	✓		2033																											
9	151	34.4	231	231	✓		2035														✓													
10	152	34.1	199	199	✓		2043							✓				✓		✓		✓		✓									✓	
11	153	33.75	181	180	✓		2044																										✓	
12	154	33.4	165	165	✓		2047	2064										✓							✓								✓	
13	155	33.1	145	145	✓		2049																										✓	
14	156	32.75	115	115	✓		2051																		✓								✓	
15	157	32.6	105	105*	✓		2056																		✓								✓	
16	158	32.3	85	85	✓		2057																		✓								✓	
17	159	31.8	60	60	✓		2059																		✓								✓	
18	160		CHL	50	✓		2060																		✓								✓	
19	161		25	25	✓		2061																		✓								✓	
20	162		5	5	✓	✓	2063					✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
21														✓	✓	✓	✓	✓	✓	✓	✓	✓												
22																																		
23																																		
24																																		

Comments :
*Bottle 15 dropped ~10 sec..
Beer bottles

Bottles tripped on Up cast or Down cast?
Caps on Ba and salinity re-tightened after warming?
Tighten cap and Parafilm on O-18 at room temp?

UN
✓
✓

Caps on DOC re-tightened after freezing?
Oxygen flask stoppers covered with seawater?
Oxygen flasks shaken twice?

✓
✓
✓

CTD paused at ~600 m deep to check readouts.

12000
4m

Cast # 15 (AG5)

Start: 05/08/04

Time (UTC) 22:19

Latitude N 70° 33.15'

Longitude W 122° 54.40'

Water Depth 650

Cast Depth 648

Filename 200416015.dat

Bottom: 05/08/04

22:45

70° 33.10'

122° 54.72'

Station Name AG5

End: 05/08/04

23:08

70° 32.95'

122° 54.81'

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC dup	TOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	CDOM	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size
1	119		BOT	648	OK	✓	2007								✓		✓																
2	120		600	596		✓	2014													✓	✓	✓	✓										
3	121		600	596		✓	2015													✓	✓	✓	✓										
4	122		600	596		✓	2017																										
5	123		600	596		✓	2025																										
6	124		600	596		✓	2027																										
7	125		600	596		✓	2032																										
8	126		600	596		✓	2033								✓	✓	✓																
9	127		500	500		✓	2035	✓2075							✓	✓	✓																
10	128		400	400		✓	2043								✓	✓	✓	✓															
11	129	34.8	300	300			2044																										
12	130	34.6	240	240			2047																										
13	131	34.4	204	204			2049																										
14	132	34.1	184	184			2051	✓2084						✓						✓	✓			✓									✓
15	133	33.75	163	163			2056							✓										✓									✓
16	134	33.4	144	144			2057							✓				✓		✓	✓												
17	135	33.1	122	122			2059							✓										✓									✓
18	136	32.75	84	84			2060							✓										✓									✓
19	137	32.6	70	70			2061							✓										✓									✓
20	138	32.3	49	49			2063							✓										✓									✓
21	139	31.8	31	33			2064							✓										✓									✓
22	140		CHL MAX 31	29			2068							✓										✓									✓
23	141		25	25			2069							✓										✓									✓
24	142		5	5	✓	✓	2073					✓		✓	✓		✓		✓	✓	✓			✓								✓	

Comments : all bottles OK - no leaks.

Beer Bottle 154, 157, 158 being thrown over

Effluent seen being discharged from ship - at beginning of cast.

Bottles tripped on Up cast or Down cast: ☒ UP ☒ DOWN

Caps on Ba and salinity re-tightened after warming? ☒

Lighten cap and Parafilm on U-18 at room temp? ☒

Collected 2L BOT 3 for Linda

Caps on DOC re-tightened after freezing? ☒

Oxygen flask stoppers covered with seawater? ☒

Oxygen flasks shaken twice? ☒

36

Chl. collected but not analyzed!! contaminated bottles

Cast # 14

Filename

Station Name 14

Date (UTC) 4 Aug 04

Time (UTC) 14 08

Latitude N 68 23.53

Longitude W 112 29.41

Water Depth 187+9

Cast Depth 191

Start: 4 Aug 04

Bottom:

End:

14 21

68 23.53

112 29.39

187+9

191

14 28

68 23.54

112 29.33

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC dup	TOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size
1	111		bottom	191	MAY HAVE SEDIMENT IN BOTTLE									✓	✓		✓															
2	112		150	150										↓	↓		↓															
3	113		100	100										↓	↓		↓															
4	114		75	75										↓	↓		↓															
5	115		50	50										↓	↓		↓															
6	116		25	25										↓	↓		↓															
7	117		10	10										↓	↓		↓															
8	118		2	2.2										↓	↓		↓															
9																																
10																																
11																																
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23																																
24																																

Comments : - no leaks - bottom sensor not functioning

- bottles # 1, 13, 14, 15, 22, 23 + 24 removed after cast to install

Bottles tripped on Up cast or Down cast: UP - no stopping

Caps on Ba and salinity re-tightened after warming?

Tighten cap and Parafilm on O-18 at room temp?

Caps on DOC re-tightened after freezing?

Oxygen flask stoppers covered with seawater?

Oxygen flasks shaken twice?

37

Cast # 13

Start: 3 Aug 04

Time (UTC) 18 32 29

Latitude N 68°41.76

Longitude W 103°45.79

Water Depth 107 ~~107~~ ¹⁰³ _{Lwl ship/keel correction}

Cast Depth 99.5 ~~X~~

Filename 200416-013.dat

Bottom: 4

Time (UTC) 18 40

Latitude N 68 41.74

Longitude W 103 45.95

Station Name Pre 2004-16 13

End: 11

Time (UTC) 18 46 25

Latitude N 68 41.71

Longitude W 103 46.09

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC dup	TOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size
1	105	124	bottom	99.5										X	X		X															
2	106		75	75										X	X		X															
3	107		50	50										X	X		X															
4	108		25	25										X	X		X															
5	109		10	10										X	X		X															
6	110		2	2										X	X		X															
7																																
8																																
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22																																
23																																
24																																

Comments : lowered + raised

lowered + raised @ 1/2 m/sec

Bottles tripped on Up cast or Down cast

Caps on Ba and salinity re-tightened after warming

Tighten cap and Parafilm on O-18 at room temp

Caps on DOC re-tightened after freezing

Oxygen flask stoppers covered with seawater

Oxygen flasks shaken twice

36

less than 5m above bottom
lower at 1/2 m/sec

Cast #12

Start:30 Jul'04

Time (UTC)23:16

Latitude N73 13.69

Longitude W90 51.45

Water Depth318+7m

Cast Depth318

Filename

Bottom:

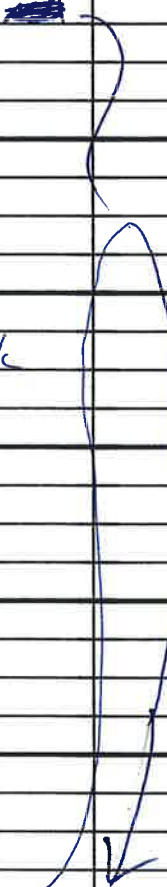
End:

23:55

73 13.59

90 51.3

Station NamePre 2004-16 12

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC dup	TOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size
1				300																												
2				250																												
3				200																												
4				150																												
5				100																												
6				50																												
7				30																												
8				20																												
9				10																												
10				on deck																												
11																																
12																																
13																																
14																																
15																																
16																																
17																																
18																																
19																																
20																																
21																																
22																																
23																																
24																																

Comments :

No samples drawn.
All bottles fired for test - all closed fine.

Bottles tripped on Up cast or Down cast:☐

Caps on Ba and salinity re-tightened after warming?☐

Tighten cap and Parafilm on O-18 at room temp?☐

Caps on DOC re-tightened after freezing?☐

Oxygen flask stoppers covered with seawater?☐

Oxygen flasks shaken twice?☐

Cast # 11

Filename

Station Name Pre 2004-16 11

Date (UTC) July 28/04

Time (UTC) 17:19

Latitude N 74 15.70

Longitude W 91 24.54

Water Depth 317 + 9

Cast Depth 300 db

Bottom:

End:

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC dup	TOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size
1															X																	
2															X																	
3															X																	
4															X																	
5															X																	
6															X																	
7															X																	
8															X																	
9															X																	
10															X																	
11															X																	
12															X																	
13															X																	
14															X																	
15															X																	
16															X																	
17															X																	
18															X																	
19															X																	
20															X																	
21															X																	
22															X																	
23															X																	
24															X																	

Comments : Test Bottle Quality all 24 tripped @ depth

same

Bottles tripped on Up cast or Down cast: ☐

Caps on Ba and salinity re-tightened after warming? ☐

Lighten cap and Parafilm on O-18 at room temp? ☐

Caps on DOC re-tightened after freezing? ☐

Oxygen flask stoppers covered with seawater? ☐

Oxygen flasks shaken twice? ☐

40

Cast #10

Filename

Station NamePre 2004-16 10

Date (UTC)Start: July 28/04

Time (UTC)16:14

Latitude N74 16.11

Longitude W91 25.50

Water Depth327

Cast Depth322d bar + 5 m

Bottom:

End:16:43

74 16.23

91 24.92

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC dup	TOC	C-13	C-13 DUP	BACTERIA	SALINITY	SAL DUP	NUTRIENTS	NUTS DUP	O18	O18 DUP	Ba	Ba DUP	TOTAL CHLa 0.7u	TOTAL CHLa 0.7u DUP	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size
1	70			322										X	X		X															
2	71			300											X		X															
3	72			250										X	X		X															
4	73			200											X		X															
5	74			150										X	X		X															
6	75			100											X		X															
7	76			75											X		X															
8	77			50										X	X		X															
9	78			25										X	X		X															
10	79			10										X	X		X															
11	80			2										X	X		X															
12																																
13																																
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23																																
24																																

Comments :

Bottles tripped on Up cast or Down cast:

Caps on Ba and salinity re-tightened after warming?

Tighten cap and Parafilm on O-18 at room temp?

Caps on DOC re-tightened after freezing?

Oxygen flask stoppers covered with seawater?

Oxygen flasks shaken twice?