

Rosette sampling log Mission 2004-16

Vessel CCGS Louis S. St-Laurent

Cast # 48 Start: 29 Aug 2004 Time (UTC) 23=01 Latitude N 72°32.67'N Longitude W 133°26.32'W Water Depth 2136+7m sounder Cast Depth
Filename 200416-048.dat Bottom: 29 Aug 2004 23=47 72°32.09'N 133°26.13'W 2169dbar, 2136+4m CTD
Station Name CB-30 End: 30 Aug 2004 00=32 72°31.62'N 133°26.05'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 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	882		BOT	2169		✓	3034				✓			✓	✓	✓	✓																
2	883		2000	✓		✓	3108									✓																	
3	884		1800	✓			3038	3039								✓		✓	✓	✓	✓												
4	885		1600	✓			3040									✓																	
5	886		1400	✓			3043																										
6	887		1200	✓			3047																										
7	888		1000	✓			3048																										
8	889		800	✓			3051	3052																									
9	890		600	✓			3055																										
10	891		500	✓			3057											✓															
11	892	34.8	395	✓			3058																										
12	893	34.6	287	✓			3061								✓	✓																	
13	894	34.4	249	✓			3063							✓	✓				✓		✓			✓									
14	895	34.1	218	✓			3065	3067						✓	✓																		
15	896	33.75	197	✓			3069				✓				✓									✓									
16	897	33.4	180	✓			3075							✓	✓			✓		✓		✓											
17	898	33.1	162	✓			3082				✓			✓	✓										✓								
18	899	32.75	130	✓			3084				✓													✓									
19	900	32.6	114	✓			3092							✓										✓									
20	901	32.3	94	✓			3094				✓													✓									
21	902	31.8	68	✓			3096							✓										✓									
22	903		Ch-MAX	160			3097				✓													✓									
23	904		25	✓			3098							✓										✓									
24	905		5	✓		✓	3107				✓	✓		✓	✓		✓		✓		✓			✓									

Comments :

Bottle 24 leaking - top not completely in place.

Bottle #17 TOC, Sampled after everything else.

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 #

47

Start:

29 AUG 2004

Time (UTC)

06:55

Latitude N

72° 0.37' N

Longitude W

139° 56.14' W

Water Depth

2660 sounding 2670.9

Cast Depth

2670.9

Filename

200416-047.d

Bottom:

29 AUG 2004

07:36

72° 0.60' N

139° 56.05' W

2670.9+5.0 = 2675.9

Station Name

CB-29

End:

29 AUG 2004

08:56

72° 0.94' N

139° 55.33' W

CTD

AET

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	858		BOT	2716		✓	2074								✓																		
2	859		2500	2500			2085								✓	✓																	
3	860		2000	2000			2086	✓2087							✓	✓			✓	✓	✓	✓											
4	861		1750	1750			2088								✓	✓																	
5	862		1500	1500			2089																										
6	863		1250	1250			2091																										
7	864		1000	1000			2092																										
8	865		800	800			2093	✓2095																									
9	866		600	600			2096																										
10	867		500	500			2098											✓															
11	868	34.8	430	430			2099																										
12	869	34.6	303	303			2003								✓	✓																	
13	870	34.4	264	264			3004							✓	✓				✓		✓			✓									
14	871	34.1	239	239			3006	✓3007						✓	✓					✓													
15	872	33.75	221	221			3009				✓				✓								✓										
16	873	33.4	206	206			3012							✓	✓			✓		✓		✓											
17	874	33.1	192	192			3016				✓			✓	✓									✓									
18	875	32.75	157	157			3018				✓				✓									✓									
19	876	32.6	145	145			3019							✓	✓									✓									
20	877	32.3	113	113			3024				✓				✓									✓									
21	878	31.8	70	70			3028							✓	✓									✓									
22	879		Ch-Max 67				3033				✓				✓									✓									
23	880		25	25			3100							✓	✓									✓									
24	881		5	5		✓	3104				✓	✓		✓	✓				✓	✓	✓	✓	✓	✓									

Comments: Duplicate SALS - one set to DOS - except chlorophyll depths.

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 #46

Filename200416-046.dat

Station NameCB-28

Start:28 Aug 2004

Bottom:28 Aug 2004

End:29 Aug 2004

Time (UTC)22:48

23:40

00:26

Latitude N71° 19.99' N

71° 19.99' N

71° 20.01' N

Longitude W140° 0.18' W

140° 0.01' W

140° 0.08' W

Water Depth2309 + 7m Sounder

Cast Depth2355dbr 2318 + 4.4m

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/POH	POC/POH DUP	DOC/DON	TOC/TON	Bio Si	Cell Size
1	834		BOT 2355			✓	2007								✓		✓																
2	835		2250	✓			2014									✓																	
3	836		2000	✓			2015	2017										✓	✓	✓	✓	✓											
4	837		1750	✓			2025									✓																	
5	838		1500	✓			2027																										
6	839		1250	✓			2032																										
7	840		1000	✓			2033																										
8	841		800	✓			2035	3107																									
9	842		600	✓			2044																										
10	843		500	✓			2047											✓															
11	844	34.8	410	✓			2049																										
12	845	34.6	287	✓			2051								✓	✓																	
13	846	34.4	248	✓			2056							✓	✓	✓			✓		✓		✓										✓
14	847	34.1	222	✓			2057							✓	✓	✓																	
15	848	33.75	205	✓			2060				✓			✓	✓								✓										✓
16	849	33.4	188	✓			2061							✓	✓			✓		✓		✓											
17	850	33.1	166	✓			2063							✓									✓										✓
18	851	32.75	136	✓			2064				✓												✓										✓
19	852	32.6	120	✓			2068							✓									✓										✓
20	853	32.3	96	✓			2069				✓												✓										✓
21	854	31.8	70	✓			2073							✓									✓										✓
22	855		Ch-MAX 50				2084				✓												✓										✓
23	856		25	✓			2094							✓									✓										✓
24	857		5	✓			2059				✓	✓		✓	✓								✓										✓

Comments : Duplicate SALS to IOS except chloro depths

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? ☐

3

Cast # 45

Date (UTC) 28 AUG 2004

Time (UTC) 05:46

Latitude N 72° 59.35'N

Longitude W 139° 54.00'W

Water Depth 3180 sounding

Cast Depth 2204.9

Filename 200416_045.dat

Bottom: 28 AUG 2004

06:54

72° 59.63'N

139° 54.36'W

3204.9 + 2.5 = 3207.4

Station Name CB-27

End: 28 AUG 2004

07:50

72° 59.98'N

139° 54.59'W

CTD

ALT

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	810		BOT	3263		✓	3034								✓		✓																
2	811		3000	3000			3037									✓																	
3	812		2500	2500			✓3038	3031										✓	✓	✓	✓	✓											
4	813		2000	2000			3040	3038								✓																	
5	814		1750	1736			3043																										
6	815		1500	1500			3047																										
7	816		1000	1000			3048	3050																									
8	817		800	800			✓3051	3052																									
9	818		600	600			3055																										
10	819		500	500			3057																										
11	820	34.8	416	416			3058																										
12	821	34.6	300	300			3061									✓																	
13	822	34.4	266	266			2003							✓				✓	✓		✓												
14	823	34.1	237	237			✓3065	3067						✓																			
15	824	33.75	218	218			3069																										
16	825	33.4	202	202			3075							✓				✓		✓		✓											
17	826	33.1	181	181			3082							✓																			
18	827	32.75	133	133			3091																										
19	828	32.6	122	122			3092							✓																			
20	829	32.3	99	99			3091																										
21	830	31.8	73	73			3096							✓																			
22	831		ch-Max	67			3097																										
23	832		25	22			3098							✓																			
24	833		5	5		✓	3102					✓		✓	✓		✓		✓		✓												

Comments : Collect Salinity from bottle #2

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? ☐

98.4

3117.8

Cast #
44

Filename
200416_044.dat

Station Name
CB-26

Date (UTC)
27 Aug 04

Time (UTC)
1844

Latitude N
73° 28.14'

Longitude W
137° 2.95'

Water Depth
3100 + 7m (sounder)

Cast Depth
3117.8

Start:
27 Aug 04

Bottom:
"

End:
"

1844

1953

2213

73° 28.02'

137° 2.57'

137° 1.42'

3117.8 + 4.6 (CTD)

ROS BOT #	Samp #	depth 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
		Z	Z	dIB			Before After																										
1	786		Bottom	3174		✓	2085	2074							W		✓																
2	787		-10	3164			2086																										
3	788		-20	3154			2087	2088								W		✓															
4	789	2088	-30	3144			2089																										
5	790	3000	3100	3052			2091																										
6	791	2900	3000	2949			2092									W																	
7	792	2800	2900	2847			2093																										
8	793	2725	2800	2769			2095	2096																									
9	794	2700	2725	2745			2098																										
10	795	2600	2700	2644			2099																										
11	796	2530	2600	2572			3003																										
12	797	2525	2530	2567	↗ 2520-2530		3004																										
13	798	2500	2525	2541	↓ 2450-2520		3006											✓															
14	799	2479	2500	2519	↗ 2475-2480		3007	3009																									
15	800	2455	2479	2495	↗ 2445-2470		3010																										
16	801	2435	2455	2475	↗ 2430-2445		3012											✓															
17	802	2370	2435	2407			3017																										
18	803	400	350	410			3018																										
19	804	350	bar	350			3019																										
20	805	300	bar	300			3100																										
21	806	250	bar	250			3024																										
22	807	150	bar	150			3028																										
23	808	30	bar	30			3033									W																	
24	809	10	2510	2110		✓	3104								✓	W	✓																

Comments :
2min Bottle Stop
Collect 20 Sal from Bottles 4 & 5

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?

3

Cast #

43

Filename

200416 - 043.dat

Station Name

CB-25

Date (UTC)

Start: 27 AUG 2004

Time (UTC)

09:15

Latitude N

74° 15.49'N

Longitude W

137° 03.87'W

Water Depth

3280 sounding

Cast Depth

3302.5

Bottom:

27 AUG 2004

10:29

74° 15.36'N

137° 02.81'W

3302.5 + 4.7 = 3307.2

End:

27 AUG 2004

11:35

74° 15.24'N

137° 01.74'W

CTD

ALT

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	762		BOT	3363		✓	2007								✓		✓																	
2	763		3000	3000			2014								✓	✓																		
3	764		2500	2500			2015	2017							✓			✓	✓	✓	✓													
4	765		2000	2000			2025								✓	✓																		
5	766		1750	1740			2027								✓																			
6	767		1500	1500			2032								✓																			
7	768		1000	1000			2033								✓																			
8	769		800	800			2035	3107							✓																			
9	770		600	700			2044								✓																			
10	771		500	500			2047								✓																			
11	772	34.8	404	404			2049								✓																			
12	773	34.6	296	296			2051								✓	✓																		
13	774	34.4	256	256			2056							✓	✓			✓	✓		✓			✓									✓	
14	775	34.1	222	222			2057	2059						✓	✓																			
15	776	33.75	203	203			2060								✓									✓										✓
16	777	33.4	186	186			2061							✓	✓			✓		✓		✓												
17	778	33.1	164	164			2063							✓	✓									✓										✓
18	779	32.75	131	131			2064								✓									✓										✓
19	780	32.6	115	115			2068							✓	✓									✓										✓
20	781	32.3	93	93			2069								✓									✓										✓
21	782	31.8	69	69			2073							✓	✓									✓										✓
22	783		On-Max	53			2084								✓									✓										✓
23	784		25	25			2094							✓	✓									✓										✓
24	785		5	5		✓	3108	BOT				✓		✓	✓				✓	✓	✓		✓											✓

Comments: Collect Salinities in duplicate #1-12

Collect SALS from BOT 2 also

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 # 42
Filename 200416-42
Station Name CB-24

Start: 26 Aug 2004 22:57
Bottom: 27 Aug 2004 00:02
End: 27 Aug 2004 01:48

Date (UTC) 26 Aug 2004
Time (UTC) 22:57
Latitude N 74° 27.61'N
Longitude W 133° 59.61'W
Water Depth 3115+7m - sound
Cast Depth 3139+4.5m Alt 3196 dbar

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	738		BOT	3196		✓	3034								✓	✓	✓																
2	739		3000	✓			3037								✓	✓	✓																
3	740		2500	✓			✓3038	3039								✓		✓	✓	✓	✓	✓											
4	741		2000	✓			3040									✓																	
5	742		1750	✓			3043																										
6	743		1500	✓			3047																										
7	744		1000	✓			3048																										
8	745		800	✓			✓3051	3052																									
9	746		600	✓			3055																										
10	747		500	✓	A		3057																										
11	748	34.8	424	✓	00		3058																										
12	749	34.6	294	✓	00		3061									✓																	
13	750	34.4	254	✓	00		3063							✓				✓	✓		✓												
14	751	34.1	214	✓	00		✓3065	3067						✓																			
15	752	33.75	185	✓			3069																										
16	753	33.4	166	✓			3075							✓				✓			✓	✓											
17	754	33.1	146	✓			3082							✓																			
18	755	32.75	116	✓			3084							✓																			
19	756	32.6	103	✓	U		3092							✓																			
20	757	32.3	80	✓	U		3094							✓																			
21	758	31.8	59	✓	A		3096							✓																			
22	759		ch-max	49			3097							✓																			
23	760		25	✓			3098							✓																			
24	761		5	✓			3100					✓		✓	✓		✓		✓		✓												

Comments : Collect dup. salinities - one to be analysed at IOS.
Collect bottle 2 for salinity - all remaining water

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? ☐

Rosette sampling log Mission 2004-16

Scan = 10600

Vessel CCGS Louis S. St-Laurent

IBCAO = 2544m

Cast # 41
Filename 200416-041.dat
Station Name CB 23
Start: 26 AUG 2004 08:43
Bottom: 26 AUG 2004 09:42
End: 26 AUG 2004 10:30
Date (UTC) Time (UTC) Latitude N Longitude W Water Depth Cast Depth
72° 59.34'N 134° 5.08'W 2520 sounding 2532.2
72° 59.18'N 134° 4.93'W 2532.2 + 5.1 = 2537.3
72° 59.04'N 134° 4.77'W CTD ALT

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	714		800	2574		✓	3034								✓		✓																
2	715		2500	2250			3037									✓																	
3	716		2000	1999			3038	3039										X	X	X	X	X											
4	717		1250	1250			3040																										
5	718		1500	1500			3043									✓																	
6	719		1250	1231			3047																										
7	720		1000	1000			3048																										
8	721		800	800			2051	3052										✓	✓														
9	722		600	600			3055																										
10	723		500	500			3058																										
11	724	34.8	405	405			3058									✓																	
12	725	34.6	294	294			3061							✓																			
13	726	34.4	256	256			3062				✓									✓				✓									
14	727	34.1	225	225			✓3065	3067						✓						✓		✓											
15	728	33.75	204	204			3069				✓													✓									
16	729	33.4	188	188			3075							✓				✓		✓		✓											
17	730	33.1	167	167			3082				✓			✓										✓									
18	731	32.75	134	134			3084				✓													✓									
19	732	32.6	119	119			3092				✓	✓		✓										✓									
20	733	32.3	95	95			3094				✓													✓									
21	734	31.8	70	70			3096				✓			✓										✓									
22	735		Ch-Max	60			3097				✓													✓									
23	736		25	25			3098				✓			✓										✓									
24	737		5	5		✓	3100				✓	✓		✓										✓									

Comments : Night crew

Bottles tripped on Up cast or Down cast: ☐
Caps on Ba and salinity re-tightened after warming? ☐
Lighten cap and Parahim 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

Cast # 40 Start: 25 Aug 2004 Time (UTC) 22=41 Latitude N 73°23.49'N Longitude W 137°10.15'W Water Depth 3063+7m - Sounder Cast Depth
Filename 200416-040 Bottom: 25 Aug 2004 23=52 73°23.50'N 137°9.64'W 3088+4.0m - Altimeter 3143dbar
Station Name CB22(2) End: 26 Aug 2004 00=51 73°23.36'N 137°9.36'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 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	690		BOT	3143		✓	2007		✓	✓	✓	✓	✓		✓		✓																
2	691		3000	✓			2014								✓																		
3	692		2500	✓			✓2015	2017										✓	✓	✓	✓	✓											
4	693		2000	✓			2025																										
5	694		1750	✓			2027								✓																		
6	695		1500	✓			2032																										
7	696		1000	✓			2033																										
8	697		800	✓			✓2035	3107										✓															
9	698		600	✓			2044																										
10	699		500	✓			2047																										
11	700	34.8	406	✓			2049								✓																		
12	701	34.6	300	✓			2051																										
13	702	34.4	260	✓			2056																										
14	703	34.1	227	✓			✓2057	2059										✓															
15	704	33.75	209	✓			2060																										
16	705	33.4	192	✓			2061																										
17	706	33.1	170	✓			2063			✓	✓		✓																				
18	707	32.75	137	✓			2064																										
19	708	32.6	121	✓			2068																										
20	709	32.3	96	✓			2069																										
21	710	31.8	72	✓			2073																										
22	711		CHL a MAX 63	✓			2084																										
23	712		25	✓			2094																										
24	713		5	✓		✓	3108		✓		✓	✓			✓		✓																

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? ☐

Rosette sampling log Mission 2004-16

Vessel CCGS Louis S. St-Laurent

Cast # 39 Start: 25 Aug 2004 Time (UTC) 20=23 Latitude N 73°23.54'N Longitude W 137°10.11'W Water Depth 3069 + 7m - sander Cast Depth Start = 17900
Filename 200416-039 Bottom: 25 Aug 2004 Time (UTC) 20=36 Latitude N 73°23.55'N Longitude W 137°10.18'W
Station Name CB-22 End: 25 Aug 2004 Time (UTC) 20=45 Latitude N 73°23.54'N Longitude W 137°10.27'W

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DOC	DOC DUP	TOC	TOC 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/PON	Bio Si	Cell Size
1	677	34.6	300	✓	2074	✓	2074	✓2085					✓	✓	✓	✓	✓	✓	✓	✓			✓									
2	678	34.4	260	✓			2086																✓						✓			
3	679	34.1	228	✓			2087						✓				✓												✓			
4	680	33.75	209	✓			2088																✓						✓			
5	681	33.4	193	✓			2089	✓2090					✓		✓		✓		✓		✓		✓									
6	682	33.1	173	✓			2091						✓				✓						✓						✓			
7	683	32.75	136	✓			2092						✓										✓						✓			
8	684	32.6	121	✓			2093						✓										✓						✓			
9	685	32.3	96	✓			2095						✓										✓						✓			
10	686	31.8	71	✓			2096						✓										✓						✓			
11	687		Ch-MAX 60	✓			2098						✓										✓						✓			
12	688		25	✓			2099						✓										✓						✓			
13	689		5	✓			3003						✓	✓	✓	✓	✓	✓	✓	✓	✓		✓					✓				
14																																
15																																
16																																
17																																
18																																
19																																
20																																
21																																
22																																
23																																
24																																

Comments :

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? ☐

(10)

Cast #38

Filename 200416-038

Station Name CB-21

Start: 24 Aug 2004

Bottom: 24 Aug 2004

End: 25 Aug 2004

Time (UTC)
22-38
23-57
01-34

Latitude N
73°56.26'N
73°55.93'N
73°56.02'N

Longitude W
139°59.23'W
140° 0.84'W
140° 2.57'W

Water Depth
3450 + 7m - sounder
3482 + 4.2m - Attmeter

Cast Depth
Scan = 12800
3548 dbat

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	653		Bottom	3548		✓	2027								✓		✓																
2	654		3000	✓			2007									✓																	
3	655		2500	✓			2014	2015										✓	✓	✓	✓	✓											
4	656		2000	✓			2015	2017								✓																	
5	657		1750	✓			2025																										
6	658		1500	✓			2032																										
7	659		1000	✓			2033																										
8	660		800	✓			2035	2043																									
9	661		600	✓			2044																										
10	662		500	✓			2047																										
11	663	34.8	393	✓			2049									✓																	
12	664	34.6	301	✓			2051							✓				✓	✓		✓												
13	665	34.4	264	✓			2056				✓													✓									✓
14	666	34.1	234	✓			2057	2059						✓																			
15	667	33.75	215	✓			2060				✓													✓									✓
16	668	33.4	196	✓			2061							✓				✓		✓	✓												
17	669	33.1	175	✓			2063				✓			✓										✓									✓
18	670	32.75	139	✓			2064				✓													✓									✓
19	671	32.6	122	✓			2068				✓			✓										✓									✓
20	672	32.3	99	✓			2069				✓													✓									✓
21	673	31.8	66	✓			2073				✓			✓										✓									✓
22	674		ch-Mon	✓			2084				✓													✓									✓
23	675		25	✓			2094				✓			✓										✓									✓
24	676		5	✓			3108				✓	✓		✓	✓		✓	✓	✓	✓	✓			✓									✓

Comments : Collected 8 salinity samples from BOT 2 cast 38 Label

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 # 37

Filename 200416-037.doc

Station Name CB-20

Start: 24 AUG 2004 13:41

Bottom: 24 AUG 2004 15:10

End: 24 AUG 2004 16:34

Latitude N 74° 15:06'N

74° 15:17'N

74° 15:17'N

Longitude W 142° 24:62'W

142° 23:99'W

142° 22:12'W

Water Depth 3640 sounding +40

3666.7 + 4.3

ALT

Cast Depth 3666.7 + 4.3

ALT

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIC	DIC dup	TOC	C-13	S-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	629		BOT	3737		✓	3034								✓		✓																	
2	630		3500	3500			3037									✓																		
3	631		3000	2962			✓3038	3039								✓			✓	✓	✓													
4	632		2500	2500			3040									✓																		
5	633		2000	2000			3043																											
6	634		1500	1500			3047																											
7	635		1000	1000			3048																											
8	636		800	800			✓3051	3052																										
9	637		600	600			3055																											
10	638		500	500			3057																											
11	639	34.8	390	389			3058									✓																		
12	640	34.6	295	295			3061							✓				✓	✓		✓													
13	641	34.4	260	260			3063																											
14	642	34.1	231	231			✓3065	3067						✓																				
15	643	33.75	212	212			3069																											
16	644	33.4	194	194			3075							✓				✓		✓	✓													
17	645	33.1	172	171			3082							✓																				
18	646	32.75	186	136			3084							✓																				
19	647	32.6	122	122			3092							✓																				
20	648	32.3	98	98			3094							✓																				
21	649	31.8	69	69			3096							✓																				
22	650		CHL	58			3097							✓																				
23	651		25	25			3098							✓																				
24	652		5	5		✓	3100					✓		✓	✓		✓	✓	✓	✓	✓													

Comments :

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?

3667
+ 4
3671

Cast # 26

Date (UTC) 24 AUG 2004 Time (UTC) 05:55

Latitude N 74° 28.36' N

Longitude W 145° 03.25' W

Water Depth 3695 sounding

Cast Depth 3733

Filename 200416_036.dat

Bottom: 24 AUG 2004 07:21

74° 27.90' N

145° 03.40' W

3733+5 GTD+ALT.

Station Name CB-19

End: 24 AUG 2004 08:30

74° 21.31' N

145° 03.51' W

30700

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	605		BOT	3805	2	✓	2074								✓		✓																
2	606		3500	3500			2085									✓																	
3	607		3000	3000			2086	2087								✓																	
4	608		2500	2500			2088									✓			✓	✓	✓	✓											
5	609		2000	2000			2089																										
6	610		1500	1500			2090																										
7	611		1000	1000			2091																										
8	612		800	800			2092	2093																									
9	613		600	600			2095																										
10	614		500	500			2096																										
11	615	34.8	389	374			2098									✓																	
12	616	34.6	299	299			2099							✓				✓	✓		✓												
13	617	34.4	261	261			3003				✓													✓									
14	618	34.1	232	232			✓3004	3006						✓																			
15	619	33.75	213	213			3007				✓													✓									
16	620	33.4	196	196			3009							✓				✓	✓		✓												
17	621	33.1	175	175			3010				✓			✓										✓									
18	622	32.75	141	141			3012				✓			✓										✓									
19	623	32.6	126	126			3016				✓			✓										✓									
20	624	32.3	102	102	Leaking		3018				✓													✓									
21	625	31.8	72	72			3019				✓			✓										✓									
22	626		CHL max	41			3023				✓													✓									
23	627		25	25			3024				✓			✓										✓									
24	628		5	5			3029				✓	✓		✓										✓									

Comments :

Bottle 20 leaking

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 # 35

Date (UTC) Start: 23 AUG 2004

Time (UTC) 17=20

Latitude N 74°59.82'N

Longitude W 140°0.87'W

Water Depth 3580m ~ sounder

Cast Depth

Filename 200416-035.dat Bottom: 23 AUG 2004

18=43

74°59.62'N

140°1.83'W

3620+4.7m

3690 dbm

Station Name CB-18

End: 23 AUG 2004

20=13

74°59.41'N

140°2.71'W

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	< Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DOC	DOC 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	581		3000	3690		✓	2007								✓		✓																	
2	582		3500	✓			2014									✓																		
3	583		3000	✓			✓2015	2017										✓	✓	✓	✓													
4	584		2500	✓			2025									✓																		
5	585		2000	✓			2027																											
6	586		1500	✓			2032																											
7	587		1000	✓			2033																											
8	588		800	✓			2035																											
9	589		600	✓			2044																✓											
10	590		500	✓			2047																											
11	591	34.8	373	✓			2049									✓							✓											
12	592	34.6	289	✓			2051							✓				✓	✓		✓		✓											
13	593	34.4	250	✓			2056				✓												✓	✓										✓
14	594	34.1	221	✓			2057	2059						✓																				
15	595	33.75	202	✓			2060				✓												✓	✓										
16	596	33.4	185	✓			2061							✓				✓	✓		✓													
17	597	33.1	165	✓			2063				✓			✓										✓	✓									
18	598	32.75	130	✓			2064				✓												✓	✓										
19	599	32.6	117	✓			2068				✓			✓										✓	✓									
20	600	32.3	94	✓			2069				✓													✓	✓									
21	601	31.8	68	✓			2073				✓			✓									✓	✓										
22	602		CHL MAX 48	✓			2084				✓												✓	✓										✓
23	603		25	✓			2094				✓			✓									✓	✓										
24	604		5	✓			2108				✓	✓		✓									✓	✓										

Comments :

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 # 34 Date (UTC) 23 AUG 2004 Time (UTC) 06:04 Latitude N 75° 59.66' N Longitude W 140° 0.64' W Water Depth 3655-sounder Cast Depth 3689.8+5.2
Filename 200416_034.dat Bottom: 23 AUG 2004 07:31 75° 59.59' N 140° 1.66' W 3695-crd+ Altimeter
Station Name CB-17 End: 23 AUG 2004 08:38 75° 59.58' N 140° 2.16' 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 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	557		BOT	3761		✓	2074								✓		✓																
2	558		3500	3500			2085									✓																	
3	559		3000	3000			2086	✓2087								✓			✓	✓	✓	✓											
4	560		2500	2500			2088	✓								✓																	
5	561		2000	2000			2089																										
6	562		1500	1500			2090																										
7	563		1000	1000			2091																										
8	564		800	800			2092	✓2093																									
9	565		600	600			2095																✓										
10	566		500	500			2096																										
11	567	34.8	363	363			2098									✓							✓										
12	568	34.6	285	285			2099							✓				✓	✓		✓		✓										
13	569	34.4	244	244			3003				✓												✓	✓									
14	570	34.1	210	210			3004	✓3006						✓									✓	✓									
15	571	33.75	190	190			3007				✓												✓	✓									
16	572	33.4	174	174			3009				✓							✓		✓		✓		✓									
17	573	33.1	155	155			3010				✓												✓	✓									
18	574	32.75	119	119			3012				✓												✓	✓									
19	575	32.6	106	106			3016				✓												✓	✓									
20	576	32.3	87	87			3018				✓												✓	✓									
21	577	31.8	64	64			3019				✓												✓	✓									
22	578		43	43			3023				✓												✓	✓									
23	579		25	25			3024				✓												✓	✓									
24	580		5	5			3028				✓	✓		✓								✓	✓										

Comments :

Collected salinity from BOT 2 for intercalibration

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?

UP
✓
✓

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

✓
✓
✓

Cast # 33
Filename 200416-033
Station Name CB-16

Start: 21 Aug 2004 17:34
Bottom: 21 Aug 2004 18:55
End: 21 Aug 2004 20:03

Date (UTC) 21 Aug 2004
Time (UTC) 17:34
Latitude N 77°53.30'N
Longitude W 140°10.08'W
Water Depth 3699+7m - saunder
Cast Depth 3816 3742 372 3816 dbar

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	533		BOT 3816			✓	2007								✓		✓																
2	534		3500	✓			2014									✓																	
3	535		3000	✓			2015	2094										✓	✓	✓	✓	✓											
4	536		2500	✓			2017									✓																	
5	537		2000	✓			2025																										
6	538		1500	✓			2027																										
7	539		1000	✓			2032																										
8	540		800	✓			2033	2035			✓																						
9	541		600	✓			2043																✓										
10	542		500	✓			2044																✓										
11	543	34.8	339	✓			2047																✓										
12	544	34.6	257	✓			2049							✓		✓		✓	✓		✓												
13	545	34.4	216	✓			2051				✓												✓	✓									
14	546	34.1	179	✓			2056	2057						✓									✓										
15	547	33.75	159	✓			2059				✓												✓	✓									
16	548	33.4	145	✓			2060							✓				✓															
17	549	33.1	130	✓			2061				✓			✓										✓									
18	550	32.75	106	✓			2063				✓			✓									✓	✓									
19	551	32.6	96	✓			2064				✓			✓										✓									
20	552	32.3	80	✓			2068				✓													✓									
21	553	31.8	58	✓			2069				✓			✓									✓										
22	554		Chl a 46	✓			2073				✓												✓	✓									
23	555		25	✓			2075				✓			✓									✓	✓									
24	556		5	✓			2084				✓	✓		✓									✓	✓									

Comments :

Bottles tripped on Up cast or Down cast: ☒ UP

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? ☐

16

Rosette sampling log Mission 2004-16

Vessel CCGS Louis S. St-Laurent

Cast # 32 Start: 20 Aug 2004 Time (UTC) 23:29 Latitude N 76°58.52'N Longitude W 139°55.19'W Water Depth 3676m sounder Cast Depth 3790m, 3777m + 3.5m - Altimeter

Filename 200416-32 Bottom: 21 Aug 2004 Time (UTC) 01:48 Latitude N 76°58.25'N Longitude W 139°54.90'W

Station Name CB-15 End: 21 Aug 2004 Time (UTC) 02:59 Latitude N 76°58.12'N Longitude W 139°54.80'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 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	509		BOT 3790			✓	3034								✓		✓																	
2	510		3000	✓			3037									✓																		
3	511		2500	✓			✓3038	3039											✓	✓	✓	✓												
4	512		2000	✓			3040									✓																		
5	513		1500	✓			3043																											
6	514		1000	✓			3047																											
7	515		800	✓			3048																											
8	516		600	✓			✓3051	3052																										
9	517		500	✓			3055																											
10	518	34.8	345	✓			3057																											
11	519	34.6	261	✓			3058							✓						✓		✓												
12	520	34.4	220	✓			3061																											
13	521	34.1	183	✓			3063							✓																				
14	522	33.75	166	✓			✓3065	3067																										
15	523	33.4	150	✓			3069																											
16	524	33.1	134	✓			3075							✓																				
17	525	33.1	134	✓																														
18	526	32.75	109	✓			3082																											
19	527	32.6	97	✓			3084							✓																				
20	528	32.3	79	✓			3092																											
21	529	31.8	62	✓			3094							✓																				
22	530		CHL MAX 44				3099																											
23	531		25	✓			3097							✓																				
24	532		5	✓		✓	3098					✓		✓	✓		✓		✓		✓													

Comments : - no bottle 17
EM CTD calibration - didn't work
* Check NUT + SAL dups. *

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 #31

Filename200416_031

Station NameCB-14

Date (UTC)
Start:20 Aug 2004
Bottom:20 Aug 2004
End:20 Aug 2004

Time (UTC)
03:08
04:38
05:44

Latitude N
76°53.68'N
76°53.65'N
76°53.65'N

Longitude W
138°19.12'W
138°18.43'W
138°17.82'W

Water Depth
3650m - sounding
3755dbar, 3683m + 1.3m - 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	TOTAL CHLa 0.7u	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size
1	485		BOT	3755		✓	2007								✓		✓																
2	486		3200	3200			2014									✓																	
3	487		2400	2400			2015	✓2017										✓	✓	✓	✓	✓											
4	488		2000	2000			2025									✓																	
5	489		1700	1700			2027																										
6	490		1500	1500			2032																										
7	491		1000	999			2033																										
8	492		800	800			2035	✓2043			✓✓																						
9	493		600	600			2044																✓										
10	494		500	500			2047											✓															
11	495	34.8	348	348			2049									✓							✓										
12	496	34.6	268	268			2051							✓					✓		✓												
13	497	34.4	231	231			2056				✓												✓	✓									
14	498	34.1	192	192			2057	✓2059						✓																			
15	499	33.75	176	176			2060				✓												✓	✓									
16	500	33.4	158	158			2061							✓				✓		✓		✓											
17	501	33.1	141	141			2063				✓			✓										✓									
18	502	32.75	115	115			2064				✓												✓	✓									
19	503	32.6	99	99			2068				✓			✓										✓	✓								
20	504	32.3	80	80			2069				✓✓													✓	✓								
21	505	31.8	55	55			2073				✓			✓									✓	✓									
22	506		45	45			2075				✓												✓	✓									
23	507		25	25			2084				✓			✓									✓	✓									
24	508		5	5			2094				✓	✓		✓									✓	✓									

Comments :

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?

UP

✓

✓

Caps on DOC re-tightened after freezing?

Oxygen flask stoppers covered with seawater?

Oxygen flasks shaken twice?

✓

Cast # 30

Filename 200416_030

Station Name CB-13

Date (UTC) 18 AUG 2004

Time (UTC) 14:23

Latitude N 77°22.42'N

Longitude W 143°22.58'W

Water Depth 3745+40

Cast Depth 3780-2m-6

Bottom: 18 AUG 2004

End: 18 AUG 2004

15:49

17:01

77°22.52'N

143°21.15'W

3784.8

77°22.61'N

143°20.03'W

ROS BOT #	Samp #	Target Salinity	Target Press	Actual Press	BOTTLE INTEGRITY	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	DIS	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	461		80T	8855		✓	2007								✓		✓																	
2	462		3200	3200			2014									✓																		
3	463		2400	2400			2017	2015										✓	✓	✓	✓	✓												
4	464		2000	2000			2025									✓																		
5	465		1600	1600			2027																											
6	466		1500	1500			2032																											
7	467		1000	1000			2033																											
8	468		800	800			2035	2043			✓																							
9	469		600	600			2044																✓											
10	470		500	500			2047											✓																
11	471	34.8	846	✓			2051							✓		✓							✓											
12	472	34.6	254	✓			2049							✓					✓		✓													
13	473	34.4	216	✓			2056				✓												✓	✓									✓	✓
14	474	34.1	180	✓			2057	2059						✓																			✓	✓
15	475	33.75	163	✓			2060				✓												✓	✓									✓	✓
16	476	33.4	149	✓			2061							✓				✓		✓		✓											✓	✓
17	477	33.1	133	✓			2063				✓			✓										✓	✓								✓	✓
18	478	32.75	106	✓			2064				✓												✓	✓									✓	✓
19	479	32.6	94	✓			2068				✓			✓										✓	✓								✓	✓
20	480	32.3	76	✓			2069				✓													✓	✓								✓	✓
21	481	31.8	56	✓			2073				✓			✓									✓	✓									✓	✓
22	482		CHLMAX	35			2075				✓												✓	✓									✓	✓
23	483		25	✓			2084	2084			✓			✓									✓	✓									✓	✓
24	484		5	✓			2094				✓	✓		✓									✓	✓									✓	✓

Comments :

Bottles tripped on Up cast or Down cast: ☒ WP

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? ☒

Rosette sampling log Mission 2004-16

Vessel CCGS Louis S. St-Laurent

SCAN = 10300

Copy

Cast # 30

Start: 18 AUG 2004

Time (UTC) 14:23

Latitude N 77°22.42'N

Longitude W 143°22.58'W

Water Depth 3740+40

Cast Depth

Filename 200416_030

Bottom: 18 AUG 2004

Station Name CB-13

End: 18 AUG 2004

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	0.7u DUP	CHLa Size 5u	CHLa Size 10u	POC/PON	POC/PON DUP	DOC/DON	TOC/TON	Bio Si	Cell Size
1	461		80T			✓									✓		✓																	
2	462		3200													✓																		
3	463		2400				✓											✓	✓	✓	✓	✓												
4	464		2000													✓																		
5	465		1600																															
6	466		1500																															
7	467		1000																															
8	468		800				✓				✓	✓																						
9	469		600																				✓											
10	470		500															✓					✓											
11	471	34.8	846											✓		✓				✓			✓											
12	472	34.6	254											✓						✓														
13	473	34.4	216								✓												✓	✓										
14	474	34.1	180				✓							✓																				
15	475	33.75									✓												✓	✓										
16	476	33.4	149											✓				✓		✓			✓	✓										
17	477	33.1	133								✓			✓										✓	✓									
18	478	32.75	106								✓			✓									✓	✓										
19	479	32.6	94								✓			✓										✓	✓									
20	480	32.3	76								✓	✓		✓										✓	✓									
21	481	31.8	56								✓			✓									✓	✓										
22	482		CHLMAX								✓			✓									✓	✓										
23	483		25								✓			✓									✓	✓										
24	484		5								✓	✓		✓									✓	✓										

? Collect deep Salinity Samples?

Comments :

Bottles tripped on Up cast or Down cast?

Caps on Ba and salinity re-tightened after warming?

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

Caps on DOC re-tightened after freezing?

Oxygen flask stoppers covered with seawater?

Oxygen flasks shaken twice?