

Rosette sampling log mission 2006-18

Cast # 27
 Station CB 2
 CTD Filename 200618-027

Date (UTC) Aug. 15, 2006
 UTC/Local time 19:10 / 13:10
 CTD Operator SN

In-air press 0.167 / 0.172
 Ice (tenths) 9
 Start Scan 5017

(w/o +9 hull correction / sound speed)
 Water Depth 3700
 Lat (N) 72° 57.799
 Lon (W) 149° 56.209

(3734 + 9.5)
 CABLE TENSION at Bottom: 1991 (lbs.)
 at 3684m: 2070

Samp #	Target property	Target depth	ROS BOT #	BOTTLE INTEGRITY	CFC	CFC Syringe #	CFC DUP Syringe #	Hg	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	OXY Trip FLASK #	DOC	C-13	TOTAL CHL a	Phyto	Bacteria	FW-Alkalinity	SALINITY	NUTRIENTS	NH4	O18	Ba	Ca	Fe	Mn	Pb	
394	Bottom	3734	✓ 1	VV	✓	8968			✓	3130									✓	✓								
395	3000	3000	✓ 2	X																								
396	2500	2500	✓ 3																									
397	2000	2000	✓ 4	VV	✓	7223			✓	3135	3159	3142								✓								
398	1500	1500	✓ 5	VV	✓	7383				3160																		
399	1000	1000	✓ 6	VV	✓	9114				3161																		
400	800	800	✓ 7	VV	✓	7332				3164																		
401	600	600	✓ 8	VV	✓	9054				3166																		
402	500	500	✓ 9	VV	✓	9069				3171												✓	✓					
403	450	450	✓ 10	VV	✓	7676				3174								✓										
404	4max	380	✓ 11	VV	✓	8953	7353			3177																		
405	341.75	335	✓ 12	VV	✓	1701				3178																		
406	341.7	313	✓ 13	VV	✓	9066				3179																		
407	341.6	283	✓ 14	VV	✓	9024				3180								✓										
408	341.4	251	✓ 15	VV	✓	8995				3181								✓			W							
409	34	225	✓ 16	VV	✓	7467				3182								✓			✓	✓						
410	33.5	200	✓ 17	VV	✓	7222				3186								✓			✓	✓						
411	33.17331	162 (185)	✓ 18	VV	✓	8978				3198	3199						✓	✓	✓	✓	✓	✓						oxygen may be contaminated (contaminated)
412	32.9	136 (162)	✓ 19	VV	✓	7638	7433			3188							✓	✓		✓	✓	✓						
413	32.6	102	✓ 20	VV	✓	8061				3189							✓	✓		✓	✓	✓						
414	32.3	80	✓ 21	VV	✓	8980			✓	3191	3190						✓	✓		W	✓	✓						
415	chl max	46	✓ 22	VV	✓	7417				3192						✓	✓	✓		W	✓	✓						oxygen
416	20	20	✓ 23	VV	✓	7504				3193						✓	✓	✓		W	✓	✓						may be
417	5	5	✓ 24	VV					✓	3196			✓			✓	✓	✓	✓	✓	✓	✓						contaminated C13 picking suspect

Comments :

Rosette sampling log mission 2006-18

Cast # 26
 Station CB2a
 CTD Filename 200618-026.ctd

Date (UTC) Aug 15, 2006
 UTC/Local time 8:00 am
 CTD Operator spiller

In-air press 0.385/0.188
 Ice (tenths) 9
 Start Scan 6795

(w/o +9 hull correction / sound speed)

Water Depth 3672 m
 Lat (N) 22° 24.925'
 Lon (W) 150° 04.74'

Samp #	Target property	Target depth	ROS BOT #	BOTTLE INTEGRITY	CFC	CFC Syringe #	CFC DUP Syringe #	X Diss. OXY	OXY FLASK #	OXY DUP FLASK #	OXY Trip FLASK #	X C-13	X TOTAL CHL a 0.7u	Phyto	Bacteria	FW-Alkalinity	SALINITY	NUTRIENTS	NH4	O18	Ba	X H2S	X H2S	X H2S	X H2S
370	Bottom	2708	1	✓				✓	3003																
371	2500		2	✓				✓	3004	3007	3009														
372	2000		3	✓					3012																
373	1500		4	✓					3016																
374	1000		5	✓	✓				3018							✓					✓	✓			
375	800		6	✓	✓	✓	7223		3019																
376	600		7	✓	✓	✓	7637		3024																
377	500		8	✓	✓				3028																
378	~450		9	✓	✓				3033																
379	tmax	360	10	✓	✓	✓	8968	9089	3034																
380	34.75	292	11	✓	✓				3038																
381	34.7	269	12	✓	✓				3043																
382	34.6	243	13	✓	✓				3047																
383	34.4	209	14	✓	✓				3048							✓				✓					
384	34	186	15	✓	✓				3051							✓				✓	✓				
385	33.7	175	16	✓	✓				3052							✓				✓					
386	33.4	166	17	✓	✓				3055							✓				✓	✓				
387	33.1	153	18	✓	✓	✓	9054		3057						✓	✓	✓		✓	✓	✓				
388	32.9	135	19	✓	✓				3058						✓			✓	✓	✓	✓				
389	32.6	113	20	✓	✓				3063						✓				✓	✓	✓				
390	32.3	93	21	✓	✓				3067						✓				✓	✓	✓				
391	chl max	66	22	✓	✓				3069				✓	✓	✓	✓			✓	✓	✓				
392	20		23	✓					3075				✓	✓	✓	✓			✓	✓	✓				
393	5		24	✓				✓	3092			✓	✓	✓	✓	✓			✓	✓	✓				

Comments : C13 pickling suspect

↑
?
OR skip and do CB-2

and OR Jen for our phyto

Rosette sampling log mission 2006-18

Cast # 25
 Station B5-3d
 CTD Filename 200618-25

Date (UTC) Aug 14 2006
 UTC/Local time 21:30 / 15:50
 CTD Operator shige

In-air press 0.286 / 0.245
 Ice (tenths) 10
 Start Scan 10:49

(w/o +9 hull correction / sound speed)
 Water Depth 3127
 Lat (N) 72° 13.79 N
 Lon (W) 150° 0.094 W

Chem +
 TSS

outside mic extend - depth 3100

Samp #	Target property	Target depth	ROS BOT #	BOTTLE INTEGRITY	CFC	CFC Syringe #	CFC DUP Syringe #	Dis. OXY	OXY FLASK #	OXY DUP FLASK #	OXY Trip FLASK #	DIC	C-13	POC	TOTAL CHL a 0.7u	Phyto	Bacteria	FW-Alkalinity	SALINITY	NUTRIENTS	NH4	O18	Ba	H-3	I-129	Cs-137	TSS	Comments	
346	Bot TSS	3153	1	✓✓										✓✓														transclean ✓	
347	Bot	3153	2	✓✓				✓	2007										✓	✓									
348	2700	2700	3	✓✓															✓	✓									
349	1500	1500	4	✓✓				✓✓	2015	2017	2025									✓									
350	800	800	5	✓✓	✓	8968			2027																				
351	600	600	6	✓✓	✓	7223			2032									✓				✓	✓						
352	450	450	7	✓✓				✓✓	2033	2044	2047								✓										leak spigot
353	600	328	8	✓✓	✓	9069			2049												14							14 NH4 samples for blanks.	
354	34.75	272	9	✓✓					2051																				
355	34.6	227	10	✓✓					2056																				
356	34.4	200	11	✓✓					2057									✓			✓✓								
357	34	182	12	✓✓					2059									✓			✓✓	✓	✓						leak o-ring
358	33.7	172	13	✓✓					2060									✓			✓✓								
359	33.4	165	14	✓✓					2061									✓			✓✓	✓	✓						
360	33.1	151	15	✓✓	✓	7637			2063					✓✓			✓	✓		✓✓	✓	✓							
361	32.9	137	16	✓✓					2091					✓✓			✓	✓		✓✓	✓	✓							
362	32.6	107	17	✓✓					2068					✓✓			✓	✓		✓✓	✓	✓							
363	32.3	88	18	✓✓					2069					✓✓			✓	✓		✓✓	✓	✓							
364	chl Max	45	19	✓✓				✓	2073					✓✓	✓	✓	✓	✓	✓	✓✓	✓	✓							No chl max, chl = 0.027 µg/L (const)
365	chl Max TSS	45	20	✓✓										✓✓			✓	✓	✓	✓✓	✓	✓							No chl max, chl = 0.027 µg/L (const)
366	20	20	21	✓✓				✓	2074					✓✓	✓	✓	✓	✓	✓	✓✓	✓	✓							
367	20 TSS	20	22	✓✓										✓✓			✓	✓	✓	✓✓	✓	✓							slow leak spigot
368	5	5	23	✓✓				✓	2089				✓	✓	✓	✓	✓	✓	✓	✓✓	✓	✓							no unknown seen C13 OK
369	5 TSS	5	24	✓✓										✓✓			✓	✓	✓	✓✓	✓	✓							

Comments :

chl max not exist
 chl = 0.027 µg/L
 value in display "struck" when the water was too turbid to read

Reduced # of POC following FM's guideline

NOTE: At surface before rosette came on deck, took like one bottle had not tripped

At 1000m on ascent - discharge from ship. Stopped after ~5 minutes. Bridge says its not garbment? - Laundry -

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Expected At/B C Expected depth 2500m

Full Chem

Cast # 24 Date (UTC) August 14, 2006 In-air press 0.361/0.222 (w/o +9 hull correction / sound speed)
 Station BS-2C UTC/Local time 10:48 Ice (tenths) 8 Water Depth 22
 CTD Filename 200618-24.dat CTD Operator Spierer Start Scan 7921 Lat (N) 71 43.709 N
 Lon (W) 151 0.460 W

Samp #	Target property	Target depth	ROS BOT #	BOTTLE INTEGRITY	CFC	CFC Syringe #	CFC DUP Syringe #	He	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	OXY Trip FLASK #	DIC	C-13	POC	TOTAL CHL a 0.7u	Phyto	Bacteria	FW-Alkalinity	SALINITY	NUTRIENTS	NH4	O18	Ba	H-3	129	137	TSS	
322	Bot TSS	2250	1	✓✓											✓✓													✓✓	
323	Bot	2000	2	✓✓	✓	7676		✓	✓	3058											✓	✓			✓				
324	2000	1500	3	✓																	✓							#3 DONT FIRE	
325	1500	1200	4	✓✓	✓	7201	9066			3063												✓							
326	1000	1000	5	✓✓		8953				3067																			
327	800	800	6	✓✓	✓	7222			✓✓	3061	3082	3084																	
328	600	600	7	✓✓		7467				3092																		DRIBLE	
329	500	500	8	✓✓		8995				3094									✓										
330	~450	450	9	✓✓		8978				3096												✓✓							
331	4max	440	10	✓✓	✓	9114	7357			3098													✓	✓					
332	34.75	349	11	✓✓		8968				3100																			
333	34.7	327	12	✓✓		7223		✓		3104																			
334	34.6	298	13	✓✓		9069			✓✓	3107	3108	3109									✓	✓✓						lubby for oxygen	
335	34.4	268	14	✓✓		7637		✓		3113									✓			✓✓							
336	34	249	15	✓✓		7332		✓		3116													✓	✓	✓				
337	33.7	241	16	✓✓		9054				3118																			
338	33.4	231	17	✓✓		7552		✓		3119																			
339	33.1	203	18	✓✓		7678				3121													✓	✓	✓				
340	32.9	141	19	✓✓		9047		✓		3123												✓✓							
341	32.6	85	20	✓✓		7504				3124																			
342	32.3	53	21	✓✓		7417				3126																			
343	chl Max	30	22	✓✓	✓	9061				3128	3151																		
344	20	20	23	✓✓				✓		3130																			? DRAW CHL LAST
345	5	5	24	✓✓				✓		3135				✓								✓✓	✓	✓				✓	C13 picking suspect

Comments :

Q. He/Trit considers adding 33.1!

Δsal is in +0.02 range - problem w/ pump? Avoid itself during cast.

- A stop at 300m generated a temperature spike

Expected Atl B.C. Expected depth 2500m

POC / TSS

Rosette sampling log mission 2006-18

Cast # 23 Date (UTC) Aug 14, 2006 In-air press 0.276/0.269 (w/o +9 hull correction / sound speed) Water Depth 2258
 Station BS-3C UTC/Local time 9:48 Ice (tenths) 8 Lat (N) _____
 CTD Filename 200618-023.dat CTD Operator Spicer Start Scan 5469 Lon (W) _____

Samp #	Target property	Target depth	ROS BOT #	BOTTLE INTEGRITY	CFC	CFC Syringe #	CFC DUP Syringe #	He	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	OXY Trip FLASK #	DIC	C-13	POC	TOTAL CHL a 0.7u	Phyto	Bacteria	FW-Alkalinity	SALINITY	NUTRIENTS	NH4	O18	Ba	H-3	I-129	Ce-137	TSS	
316	33.1	205	1	✓																									
317	32.3	54	2	✓											✓														
318	CHI MAX	30	3	✓											✓														
319	CHI MAX	30	4	✓											✓														✓
320	20		5	✓											✓														✓
321	5		6	✓											✓														✓
			7																										
			8																										
			9																										
			10																										
			11																										
			12																										
			13																										
			14																										
			15																										
			16																										
			17																										
			18																										
			19																										
			20																										
			21																										
			22																										
			23																										
			24																										

← Redundant in case
 # 3 does NOT CLOSE
 Bottle 3 closed OK
 last POC/TSS taken from
 Bottle #4 to make up 10⁵ l

Comments :

Reduced levels of POC following FM guideline

Rosette sampling log mission 2006-18

note station name is still "BS"

~1200m

Cast # 22
 Station BS-3b
 CTD Filename 200618_022

Date (UTC) 14 Aug 2006
 UTC/Local time 03:33
 CTD Operator shipe

In-air press 0.253 / 0.318
 Ice (tenths) 7
 Start Scan ---
 (w/o +9 hull correction / sound speed)
 Water Depth 1269
 Lat (N) 71° 31.969
 Lon (W) 151° 35.680

Samp #	Target property	Target depth	ROS BOT #	BOTTLE INTEGRITY	CFC	CFC Syringe #	CFC DUP Syringe #	He	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	OXY Trip FLASK #	BIC	C-13	POC	TOTAL CHL a 0.7u	Phyto	Bacteria	FW-Alkalinity	SALINITY	NUTRIENTS	NH4	O18	Ba	H3	H29	Cs-137	TSS			
293	Bot	1273	1	✓✓					✓	3038										✓	✓										
294	Bot TSS	1273	2	✓✓											✓✓														✓✓		
295	1000	1000	3	X																									did not fire		
296	800	800	4	✓✓	✓	7201			✓✓	3203	3019									✓✓	✓✓										
297	600	600	5	✓✓	✓	8953			✓	3055																					
298	~450	450	6	✓✓					✓	3204																					
299	Emax	350	7	X✓	✓	8995			✓	3024										✓									14 NH4 samples for blanks slow leak spigot		
300	34.75	283	8	✓✓					✓	3043																					
301	34.6	238	9	✓✓					✓	3206																					
302	34.4	212	10	✓✓					✓	3057					✓✓					✓											
303	34.0	193	11	✓✓					✓	3028										✓											
304	33.7	184	12	✓✓					✓	3047										✓											
305	33.4	179	13	✓✓					✓✓	3075	3033	3207								✓											
306	33.1	167	14	✓✓	✓	8024			✓	3048					✓✓				✓												
307	32.9	148	15	✓✓					✓	3097					✓✓				✓	✓	✓	✓	✓	✓							
308	32.6	101	16	✓✓					✓	3034					✓✓				✓			✓	✓	✓							
309	32.3	68	17	✓✓					✓	3209					✓✓				✓			✓	✓	✓							
310	chl Max	45	18	✓✓					✓	3051									✓	✓	✓	✓	✓	✓							
311	chl Max TSS	45	19	✓✓											✓✓				✓	✓	✓	✓	✓								
312	20	20	20	✓✓					✓	3202					✓✓				✓	✓	✓	✓	✓							✓✓	
313	20 TSS	20	21	✓✓											✓✓				✓	✓	✓	✓	✓							✓✓	
314	5	5	22	✓✓					✓	3012					✓				✓	✓	✓	✓	✓	✓							
315	5 TSS	5	23	✓✓											✓✓				✓	✓	✓	✓	✓							✓✓	
			24																												

Comments :

NIFI - 0 - 34.6 x2
 x9 once
 ~400m + 14 samples

Rosette sampling log mission 2006-18

Cast # 21
 Station # 58-30
 CTD Filename 200618_021

Date (UTC) Aug 13, 2006
 UTC/Local time 23:42
 CTD Operator shige

In-air press -10.078
 Ice (tenths) 4
 Start Scan 8041
 (w/o +9 hull correction / sound speed)
 Water Depth 51.7
 Lat (N) 21° 19.849
 Lon (W) 152° 12.656

Samp #	Target property	Target depth	ROS BOT #	BOTTLE INTEGRITY	CFC	CFC Syringe #	CFC DUP Syringe #	He	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	OXY Trip FLASK #	DIC	C-13	POC	TOTAL CHLa 0.7u	Phyto	Bacteria	FW-Alkalinity	SALINITY	NUTRIENTS	NH4	O18	Ba	H-3	H-129	Ce-137	TSS			
283	Bottom ✓	55 m ✓	1	✓✓											✓✓																
284	Duffon ✓	55 m ?	2	✓✓					✓	3003					✓✓				✓	✓	✓	✓✓	✓	✓							
285	30 ✓		3	X																										did not fire	
286	30 ✓		4	✓✓					✓	3004					✓✓	✓			✓	✓	✓	✓✓	✓	✓							
287	20 ✓		5	✓✓											✓✓				✓	✓	✓	✓✓	✓	✓							
288	20 ✓		6	✓✓						✓ 3006	3007	3009			✓✓	✓			✓	✓	✓✓	✓✓	✓	✓							
289	10 ✓		7	✓✓											✓✓				✓	✓	✓	✓✓	✓	✓							
290	10 ✓		8	✓✓					✓	3016					✓✓				✓	✓	✓	✓✓	✓	✓							
291	5 ✓		9	✓✓											✓✓				✓	✓	✓	✓✓	✓	✓							
292	5 ✓		10	✓✓					✓	3018			✓		✓✓	✓			✓	✓	✓	✓✓	✓	✓						C13 OK	
			11																												
			12																												
			13																												
			14																												
			15																												
			16																												
			17																												
			18																												
			19																												
			20																												
			21																												
			22																												
			23																												
			24																												

Comments :

22 m chl max

Rosette sampling log mission 2006-18

Cast # 20
 Station RS3
 CTD Filename 200618-20a

Date (UTC) 2006/8/13
 UTC/Local time 20:44 / 14:44
 CTD Operator JN

In-air press -/0.2
 Ice (tenths) 4
 Start Scan 8305
 (w/o +9 hull correction / sound speed)
 Water Depth 149
 Lat (N) 71 23.891
 Lon (W) 152 3.115

Samp #	Target property	Target depth	ROS BOT #	BOTTLE INTEGRITY	SEC	CFC Syringe #	SEC DOP Syringe #	HE	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	OXY Trip FLASK #	DIC	C-13	POC	TOTAL CHLa 0.7u	Phyto	Bacteria	FW-Alkalinity	SALINITY	NUTRIENTS	NH4	O18	Ba	H3	L129	C337	TSS					
267	bottom	147	1	✓✓											✓✓													✓✓					
268	bottom	147	2	✓✓					✓	3166								✓	✓	✓✓	✓✓								✓✓				
269	32.9	145	3	✓✓					✓	3171					✓✓				✓	✓	✓	✓✓	✓										
270	32.6	142	4	✓✓					✓	3174					✓✓				✓	✓	✓	✓✓	✓										
271	32.3	113	5	✓✓					✓	3177					✓✓				✓	✓✓	✓✓	✓✓	✓										
272		80	6	✓✓											✓✓						✓✓	✓	✓							✓✓			
273		50	7	✓✓					✓	3178								✓	✓	✓	✓✓	✓	✓							slow leak spigot			
274	Tr Fanke	45	8	✓✓											✓✓						✓✓	✓	✓							✓✓			
275	Chl Max	23	9	✓✓											✓✓															✓✓			
276	"	21	10	✓✓					✓	3179							✓	✓✓	✓	✓	✓✓	✓✓	✓							✓✓			
277	"	19	11	✓✓												✓✓																	
278		17	12	✓																													
279		13	13	✓✓											✓✓																✓✓		
280		12	14	✓✓					✓✓	3181	3182	3183					✓	✓✓	✓	✓	✓		✓	✓									
281		5	15	✓✓					✓	3180			✓				✓	✓	✓	✓	✓	✓✓	✓	✓							C13 OK		
282		4	16	✓											✓✓	✓															✓✓	slow leak lower o-ring	
			17																														
			18																														
			19																														
			20																														
			21																														
			22																														
			23																														
			24																														

Comments :

Rosette sampling log mission 2006-18

Cast # 19
Station STA A
CTD Filename 200618-019

Date (UTC) 2006/08/12
UTC/Local time 1458/1000
CTD Operator JE/SS

In-air press 0.1/0.14
Ice (tenths) 7
Start Scan 14400

(w/o +9 hull correction / sound speed)
Water Depth 3145/1463
Lat (N) 71 46.022
Lon (W) 144 0.845

137 Cs - 129

Samp #	Target property	Target depth	ROS BOT #	BOTTLE INTEGRITY	CFC	CFC Syringe #	CFC DUP Syringe #	He	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	OXY Trip FLASK #	DIC	C-13	POC	TOTAL CHL a 0.7u	Phyto	Bacteria	FW-Alkalinity	SALINITY	NUTRIENTS	NH4	O18	Ba	H-3	I-129	Cs-137	TSS						
243		1000	1	✓																											2nd attempt at Cs, I cast			
244		1000	2	✓																														
245		1000	3	✓																														
246		1000	4	✓	✓	9114		✓	✓											✓					✓	✓					He#			
247		800	5	✓																														
248		800	6	✓																														
249		800	7	✓																														
250		800	8	✓	✓	7467		✓	✓											✓					✓	✓								
251	S _{min} 600	590	9	✓																														
252	S _{min}	590	10	✓																														
253	S _{min}	590	11	✓																														
254	S _{min}	590	12	✓	✓	9054		✓	✓											✓					✓	✓								
255	T _{max} 600	390 440	13	✓																														
256	T _{max}	390 440	14	✓																														
257	T _{max}	390 440	15	✓																														
258	T _{max}	390 440	16	✓	✓	9097		✓	✓											✓					✓	✓								
259	O ₂ min	286 300	17	✓																														
260	O ₂ min	286 300	18	✓																														
261	O ₂ min	286 300	19	✓																														
262	O ₂ min	286 300	20	✓	✓	7332		✓	✓											✓					✓	✓								
263	32.3	70	21	✓																														
264	chl Max	35 40	22	✓																														
265	20	20	23	✓																														
266	5	5	24	✓																														

Comments:

wait 1 minute before closing bottles

Rosette sampling log mission 2006-18

Cast # 18
 Station STA-A
 CTD Filename 200618-18

Date (UTC) Aug 12, 2006
 UTC/Local time 07:30
 CTD Operator Jen

In-air press 0.1
 Ice (tenths) 4
 Start Scan 5065

(w/o +9 hull correction / sound speed)
 Water Depth 3138m
 Lat (N) 31°47.298 N
 Lon (W) 143°56.340 W

Samp #	Target property	Target depth	ROS BOT #	BOTTLE INTEGRITY	CFC	CFC Syringe #	CFC DUP Syringe #	He	Dis. OXY	OXY FLASK #	OXY DUP FLASK #	OXY Trip FLASK #	DIC	C-13	POC	TOTAL CHL a 0.7u	Phyto	Bacteria	FW-Alkalinity	SALINITY	NUTRIENTS	NH4	O18	Ba	H-3	I-129	Cs-137	TSS
219	Bot	3146	1	✓	✓	9047		✓	✓	2091			✓							✓	✓							-7000
220	2500	2500	2	✓	✓	7435	7552	✓	✓	2094			✓							✓	✓							
221	2000	2000	3	✓	✓	7332		✓	✓	2098	3003/3099									✓	✓							
222	1500	1500	4	✓	✓	7504		✓	✓	8004										✓	✓							
223	1000	1000	5	✓	✓	01114		✓	✓	3006										✓	✓							
224	800	800	6	✓	✓	7201		✓	✓	3007/3012	3009/3012				✓					✓	✓							
225	600	600	7	✓	✓	9024		✓	✓	3016									✓	✓	✓							
226	500	500	8	✓	✓	5054		✓	✓	3018										✓	✓							
227	450	450	9	✓	✓	7222		✓	✓	3019										✓	✓							
228	Tmax	427	10	✓	✓	7678		✓	✓	3024										✓	✓							
229	34.75	352	11		✓			✓	✓											✓	✓							did not trip
230	34.7	323	12	✓	✓	7417		✓	✓	3033										✓	✓							
231	34.6	286	13	✓	✓	7435	buddy	✓	✓	3034	3038	3039								✓	✓							
232	34.4	248	14	✓	✓	8978		✓	✓	3040									✓	✓	✓	✓						6560
233	34	213	15	✓	✓	7467	8753	✓	✓	3043									✓	✓	✓	✓						
234	33.7	195	16	✓	✓	8958		✓	✓	3046					✓				✓	✓	✓	✓						
235	33.4	177	17	✓	✓	8995		✓	✓	3046			✓						✓	✓	✓	✓	✓					
236	33.1	154	18	✓	✓	9061		✓	✓	3051			✓						✓	✓	✓	✓	✓					8410
237	32.9	134	19	✓	✓	7670		✓	✓	3052			✓					✓	✓	✓	✓	✓	✓					↑
238	32.6	97	20	✓	✓	7223		✓	✓	3055			✓					✓	✓	✓	✓	✓	✓					↑ } Draw POC last
239	32.3	74	21	✓	✓	7253		✓	✓	3057			✓					✓	✓	✓	✓	✓	✓					↓
240	Cl Max	55	22	✓	✓	9066	buddy	✓	✓	3055			✓					✓	✓	✓	✓	✓	✓					8160
241	20	20	23	✓	✓	8960		✓	✓				✓					✓	✓	✓	✓	✓	✓					8160
242	5	5	24	✓	✓	9069		✓	✓	3052			✓					✓	✓	✓	✓	✓	✓					8310

Comments :

↑ ↑ ↑ Any water left for chl a top depths in Cs/I cast
 DIC's may not have been properly pickled, but probably were

Rosette sampling log mission 2006-18

Cast # 17
 Station CB-28bb
 CTD Filename 200618-017

Date (UTC) Aug. 11/06
 UTC/Local time 13:10 / 16:01
 CTD Operator Ten

In-air press 0.177 / 0.084
 Ice (tenths) 2/10
 Start Scan 6:45

(w/o +9 hull correction / sound speed)
 Water Depth 2272m
 Lat (N) 71° 14.865' N
 Lon (W) 140° 0.289' W

Samp #	Target property	Target depth	ROS BOT #	BOTTLE INTEGRITY	CFC	CFC Syringe #	CFC DUP Syringe #	He	Dis. OXY	OXY FLASK #	OXY DUP FLASK #	OXY Trip FLASK #	DIC	C-13	POC	TOTAL CHL a 0.7u	Hydro	Bacteria	FW-Alkalinity	SALINITY	NUTRIENTS	NH4	O18	Ba	H-3	I-129	Se-137	TSS 5µ
	~2100	+2m																										
195	bottom	2260	1	✓✓	✓	9114		✓	✓	2007										✓	✓							
196	bottom	2260	2	✓✓											✓✓													✓✓
197		1500	3	✓✓				✓	✓	2014										✓	✓							
198		1000	4	✓✓					✓✓	2015	2017									✓✓	✓✓							
199		800	5	✓✓	✓	7417				2005																		
200		600	6	✓✓	✓	7676			✓✓	2007	2032	2033																
201		500	7	✓✓	✓	sw 8965				2044																		
202	tmax	425	8	✓✓	✓	7233	72=2			2047									✓									
203	34.75	340	9	✓✓	✓	sw 7323				2049																		
204	34.7	308	10	✓✓						2051																		
205	34.6	274	11	✗						2056											✓✓	✓✓						Not closed
206	34.4	237	12	✓✓	✓	7678		✓		2057					✓✓				✓									CLOSE
207	34.0	204	13	✓✓	✓	7332				2059									✓			✓✓	✓	✓				
208	33.7	189	14	✓✓	✓	sw 1166		✓		2060									✓			✓✓			✓			
209	33.4	174	15	✓✓						2061									✓			✓✓	✓	✓				
210	33.1	154	16	✓✓	✓	8998				2063					✓✓		✓	✓	✓		✓✓	✓	✓					
211	32.9	135	17	✓✓				✓		2064					✓✓		✓	✓	✓		✓✓	✓	✓					
212	32.6	108	18	✓✓						2068					✓✓		✓	✓	✓		✓✓	✓	✓					
213	32.3	87	19	✓✓	✓	sw 7433				2069					✓✓		✓	✓	✓		✓✓	✓	✓					
214	chl Max	50	20	✓✓				✓	✓	2093					✓		✓	✓	✓		✓✓	✓	✓					
215	chl Max	50	21	✓✓											✓✓		✓	✓	✓		✓✓	✓	✓					
216	20	20	22	✓✓				✓	✓	2071					✓✓		✓	✓	✓		✓✓	✓	✓					
217	5	5	23	✓✓	✓	sw 8980			✓	2084					✓		✓	✓	✓		✓✓	✓	✓					
218	5	5	24	✓✓											✓✓		✓	✓	✓		✓✓	✓	✓					

Comments :

1 11.5 4.4 0.1 .6 35.0.1 .2 0.1 0.1 16 6

Ignore C-13 if spare
 mercuric chloride dispenser
 is not found.

CB28bb is new station
 1/2 way btw CB29 and CB28a

Spare dispenser found btwn 17 & 18

Rosette sampling log mission 2006-18

Cast # 16
 Station CB29
 CTD Filename 200618-016

Date (UTC) 11 Aug 2006
 UTC/Local time 01:29
 CTD Operator sluge

In-air press 0.104 / 0.061
 Ice (tenths) 9
 Start Scan 05369

(w/o +9 hull correction / sound speed)

Water Depth 2654
 Lat (N) 71° 59.903
 Lon (W) 139° 58.634

Samp #	Target property	Target depth	ROS BOT #	BOTTLE INTEGRITY	CFC	CFC Syringe #	CFC DUP Syringe #	He	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	OXY Trip FLASK #	DIC	C-13	POC	TOTAL CHL a 0.7u	Phyto	Bacteria	FW-Alkalinity	SALINITY	NUTRIENTS	NH4	O18	Ba	H-3	I-129	Cs-137	TSS		
171	Bot	Bot	1	✓✓				✓	✓	3058				✓						✓	✓									
172	1500	Bot	2	✓✓					✓✓	3063	3061																			
173	1200	2000	3	✗				✓	✓												✓									
174	1000	1500	4	✓✓				✓	✓	3082											✓									
175	800	1000	5	✓✓				✓	✓	3084											✓									
176	700	800	6	✓✓				✓	✓✓	3096	3094	3092									✓									
177	600	600	7	✓✓				✓	✓	3100											✓									
178	500	500	8	✓✓				✓	✓	3104									✓		✓									
179	450	450	9	✓✓				✓	✓	3107								✓			✓									
180	Tmax	440	10	✓✓				✓	✓	3108											✓									
181	34.75	343	11	✗				✓	✓												✓									
182	34.7	312	12	✓✓				✓	✓	3113											✓									
183	34.6	276	13	✓✓					✓	3116											✓									
184	34.4	241	14	✓✓				✓	✓	3118											✓									
185	34	210	15	✓✓					✓	3119											✓									
186	33.7	190	16	✓✓				✓	✓	3121											✓									
187	33.4	182	17	✓✓				✓	✓	3123											✓									
188	33.1	160	18	✓✓					✓	3124											✓									
189	32.9	141	19	✓✓				✓	✓	3126											✓									
190	32.6	113	20	✓✓					✓	3128											✓									
191	32.3	91	21	✓✓				✓	✓	3137	3135	3130									✓									
192	chl max	59	22	✓✓					✓	3142						✓					✓									
193	20	20	23	✓✓				✓	✓	3151											✓									
194	5	5	24	✓✓				✓	✓	3098				✓							✓									

Comments :

Not closed.

slow drip from bottom.

Not closed

C13 OK

Rosette sampling log mission 2006-18

Cast # 15
 Station CB28a
 CTD Filename 200618-015

Date (UTC) Aug. 10/06
 UTC/Local time 09:04
 CTD Operator Jer

In-air press 0.1/0.1
 Ice (tenths) 0
 Start Scan 8041

(w/o +9 hull correction / sound speed)
 Water Depth 658
 Lat (N) 70° 30.084 N
 Lon (W) 140° 0.005 W

~866

Samp #	Target property	Target depth	ROS BOT #	BOTTLE INTEGRITY	CFC	CFC Syringe #	CFC DUP Syringe #	He	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	OXY Trip FLASK #	DIC	C-13	POC	TOTAL CHL a 0.7u	Phyto	Bacteria	FW-Alkalinity	SALINITY	NUTRIENTS	NH4	O18	Ba	H-3	I-129	Cs-137	TSS			
147	Bot	~650	✓1	✓											✓																
148	Bot	~650	✓2	✓	✓	7353	8978	✓	✓						✓						✓	✓							✓	✓	
149	Trans-int.	~600	✓3	✓											✓														✓	✓	
150	Trans-int	~410	✓4	✓											✓														✓	✓	
151	600	600	✓5	✓		9097		✓							✓														✓	✓	
152	500	500	✓6	✓	✓	7552	7935	✓							✓														✓	✓	
153	450	450	✓7	✓	✗			✗	✗											✗	✗								✗	✗	
154	Tmax	445	✓8	✓		9066		✓							✓				✓				✓	✓					✓	✓	
155	400	400	✓9	✓		7201		✓							✓														✓	✓	
156	34.75	306	✓10	✓		7433		✓							✓														✓	✓	
157	34.7	339	✓11	✓				✓							✓															✓	✓
158	34.6	307	✓12	✓	✓	7166		✓							✓															✓	✓
159	34.4	271	✓13	✓		9069			✓						✓														✓	✓	
160	34	244	✓14	✓		7417									✓							✓	✓						✓	✓	
161	33.7	228	✓15	✓		7504		✓							✓							✓	✓						✓	✓	
162	33.4	202	✓16	✓		9114									✓							✓	✓						✓	✓	
163	33.1	157	✓17	✓		8980									✓							✓	✓						✓	✓	
164	32.9	128	✓18	✓		8995		✓							✓							✓	✓						✓	✓	
165	32.6	85	✓19	✓		7332									✓							✓	✓						✓	✓	
166	32.3	62	✓20	✓		7678			✓						✓							✓	✓						✓	✓	
167	chl Max	40	✓21	✓		7383									✓							✓	✓						✓	✓	
168	50	50	✓22	✓		7222		✓							✓							✓	✓						✓	✓	
169	20	20	✓23	✓	✓	7629		✓	✓						✓							✓	✓						✓	✓	
170	5	5	24						✓				✓									✓	✓							✓	✓

Comments :

Top 5m very warm (~7°C) and fresh (~10 psu)

Note niskin 4 (sample 150) and 21 (sample 167) are out of depth order

↑ double labels

✓ change Alk to sample 154. Bot 8
 ✓Ba From 153 Bot 7
 ✓O18

C13 pickling suspect



Rosette sampling log mission 2006-18

Cast # 14
 Station CB28a
 CTD Filename 200618_14

Date (UTC) Aug. 10 2006
 UTC/Local time 7:07 / 2:07pm
 CTD Operator Jen

In-air press 0.188/0.074
 Ice (tenths) 0
 Start Scan 7945
 (w/o +9 hull correction / sound speed)
 Water Depth 653m
 Lat (N) 70° 29.884' N
 Lon (W) 139° 59.930' W

Samp #	Target property	Target depth	ROS BOT #	BOTTLE INTEGRITY	CFC	CFC Syringe #	CFC DUP Syringe #	He	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	OXY Trip FLASK #	DIC	C-13	POC	TOTAL CHL a	0.7u	Phyto	Bacteria	FW-Alkalinity	SALINITY	NUTRIENTS	NH4	O18	Ba	H-3	I-129	Cs-137	TSS		
134	34.4	272	1	✓											✓																
135	33.1	159	2	✓											✓																
136	32.9	129	3	✓											✓																
137	32.6	86	4	✓											✓																
138	32.3	61	5	✓											✓																
139	58-40 <u>58-40</u>	40-50 <u>40-50</u>	6	✓											✓																
140	58-40 <u>58-40</u>	40-50 <u>40-50</u>	7	✓											✓	✓															
141	58-40 <u>58-40</u>	50-40 <u>50-40</u>	8	✓											✓															✓	
142	58-40 <u>58-40</u>	50-40 <u>50-40</u>	9	✓											✓	✓														✓	
143	20	20	10	✓											✓															✓	
144	20	20	11	✓											✓	✓														✓	
145	5	5	12	✓											✓															✓	
146	5	5	13	✓											✓	✓														✓	
			14																												
			15																												
			16																												
			17																												
			18																												
			19																												
			20																												
			21																												
			22																												
			23																												
			24																												

take dup on bottle instead of 7

Comments :

Rosette sampling log mission 2006-18

(w/o +9 hull correction / sound speed)

Cast # 13
 Station CABOS
 CTD Filename 200618_03

Date (UTC) 2006/08/08
 UTC/Local time 20:56 / 1556
 CTD Operator Shige

In-air press 0.122 / 0.144
 Ice (tenths) 8
 Start Scan 8113
 Water Depth 1105
 Lat (N) 71° 48.454
 Lon (W) 131° 46.616

Samp #	Target property	Target depth	ROS BOT #	BOTTLE INTEGRITY	CFC	CFC Syringe #	CFC DUP Syringe #	He	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	OXY Trip FLASK #	DIC	C-13	POC	TOTAL CHL a 0.7u	Phyto	Bacteria	FW-Alkalinity	SALINITY	NUTRIENTS	NH4	O18	Ba	H-3	i-129	Cs-137	TSS			
110	Bot	1089	1	VV					✓	2007										✓	✓								✓		
111	Bot	1089	2	VV				✓	✓	2015										✓											
112	850	850	3	VV	✓	7061		✓	✓	2017	2014	2025																			
113	700	700	4	VV				✓	✓	2027											✓										
114	600	600	5	VV				✓	✓	2032																					
115	500	500	6	VV				✓	✓	2033																					
116	450	450	7	VV				✓	✓	2035	2044	2047																			
117	Tray	400	8	VV	✓	9054	9066	✓	✓	2049																					
118	400	400	9	VV				✓	✓	2051													✓	✓							
119	34.75	233	10	VV				✓	✓	2056																					
120	34.7	300	11	VV				✓	✓	2057																					
121	34.6	267	12	VV				✓	✓	2059																					
122	34.4	231	13	VV				✓	✓	2064																					
123	34.	198	14	VV				✓	✓	2061	2063																				
124	33.7	183	15	VV				✓	✓	2064																					
125	33.4	167	16	VV				✓	✓	2067													✓	✓	✓						
126	33.1	147	17	VV				✓	✓	2067																					
127	32.9	130	18	VV				✓	✓	2073																					
128	32.6	105	19	VV				✓	✓	2074																					
129	32.3	87	20	VV				✓	✓	2084	2085											✓	✓	✓							
130	Chl Mar	-62	21	VV				✓	✓	2086												✓									
131	35	35	22	VV	✓			✓	✓	2087	2088											✓									
132	20	20	23	VV	✓	7435	7552	✓	✓	2089												✓									
133	5	5	24	VV				✓	✓	2092				✓																	

Comments :

① O₂ Riskin #5 suspect.

Stop 847m to look at wire and drum.

Stop 65m }
 Stop 42m } to avoid ice.
 Stop 19m }

only enough water for 42 TD

1 R for Nut ✓

NH₄ reference

remainder ✓
 for Alk standard.

C13 OK

Rosette sampling log mission 2006-18

Cast # 12
 Station CABOS
 CTD Filename 200618_012

Date (UTC) 2006/08/08
 UTC/Local time 19:10
 CTD Operator shige

In-air press 0.128/0.111
 Ice (tenths) 8
 Start Scan X

(w/o +9 hull correction / sound speed)
 Water Depth 1112^m/1463^{m/sec}
 Lat (N) 71° 49.055
 Lon (W) 131° 46.534

actual
 = 1112+9

Samp #	Target property	Target depth	ROS BOT #	BOTTLE INTEGRITY	CFC	CFC Syringe #	CFC DUP Syringe #	He	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	OXY Trip FLASK #	DIC	C-13	POC	TOTAL CHLa 0.7u	Phyto	Bacteria	FW-Alkalinity	SALINITY	NUTRIENTS	NH4	O18	Ba	H-3	I-129	Cs-137	TSS		
95	34.4	23	1	✓✓											✓✓															
96	33.1	14	2	✓✓											✓✓															
97	32.9	130	3	✓✓											✓✓															
98	32.6	105	4	✓✓											✓✓															
99	32.6	103	5	✓✓											✓✓							✓✓								
100	32.3	87	6	✓✓											✓✓															
101	32.3	87	7	✓✓											✓✓							✓✓							drips from lower end cap	
102	CHL _{max}	50	8	✓✓											✓✓															
103	CHL _{max}	50	9	✓✓											✓✓	✓✓						✓✓							Phyto lid cracked/switch w/ unusec bottle	
104	50	50	10	✓✓											✓✓															
105	50	50	11	✓✓											✓	✓						✓✓								
106	20	20	12	✓✓											✓✓															
107	20	20	13	✓✓											✓	✓						✓✓								
108	5	5	14	✓✓											✓✓															
109	5	5	15	✓✓											✓	✓						✓✓								
			16																											
			17																											
			18																											
			19																											
			20																											
			21																											
			22																											
			23																											
			24																											

Comments :

Rosette sampling log mission 2006-18

Cast # 11
 Station AG5
 CTD Filename 200618-011

Date (UTC) 2006/08/07
 UTC/Local time 1810/1410
 CTD Operator JE

(w/o +9 hull correction / sound speed)
 In-air press 0.214/0.214
 Ice (tenths) 0
 Start Scan 21750
 Water Depth 642/1463
 Lat (N) 70° 32.96' N
 Lon (W) 122 54.86' W

Samp #	Target property	Target depth	ROS BOT #	BOTTLE INTEGRITY	CFC	CFC Syringe #	CFC DUP Syringe #	He	Diss. OXY	OXY FLASK #	OXY DUP FLASK #	OXY Trip FLASK #	DIC	C-13	POC	TOTAL CHLa 0.7u	Phyto	Bacteria	FW-Alkalinity	SALINITY	NUTRIENTS	NH4	O18	Ba	H-3	I-129	Cs-137	TSS		
73	Bot	635	1	✓	✓	7417		✓	✓	2007	2014									✓	✓									
74	Bot		2	✓											✓														✓	
75	Tmax	600	3	✓	✓	9906			✓	2017	2025								✓	✓	✓	✓	✓							
76	500	500	4	✓	✓	7201		✓	✓	2027	2032									✓	✓									
77	34.7	322	5	✓	✓	7353	9024		✓	2033	2035									✓	✓								Small bubbles in 9024 cfc	
78	34.4	223	6	✓											✓															
79	34.4	223	7	✓	✓	7166			✓	2047								✓	✓	✓	✓	✓	✓						Sampled Bact 1530	
80	34	187	8	✓	✓	7552			✓	2049								✓	✓	✓	✓	✓	✓							
81	33.1	126	9	✓											✓															
82	33.1	126	10	✓	✓	7435			✓	2044	2051							✓	✓	✓	✓	✓	✓							
83	32.9	106	11	✓											✓															
84	32.9	106	12	✓	✓	8968			✓	2056								✓	✓	✓	✓	✓	✓							
85	32.6	79	13	✓											✓															
86	32.6	79	14	✓	✓	9054			✓	2057								✓	✓	✓	✓	✓	✓							
87	32.3	65	15	✓											✓															
88	32.3	65	16	✓	✓	9047	9114		✓	2059								✓	✓	✓	✓	✓	✓							
89	Chl Max	45	17	✓											✓															
90	Chl Max	45	18	✓	✓	9061			✓	2060						✓	✓	✓	✓	✓	✓	✓	✓							
91	20		19	✓											✓															
92	20		20	✓	✓	8953			✓	2061						✓	✓	✓	✓	✓	✓	✓	✓							
93	5		21	✓											✓															
94	5		22	✓	✓	9069		✓	✓	2063			✓			✓	✓	✓	✓	✓	✓	✓	✓	✓					last Bact 1600 C13 ok.	
			23																											22 - not enough water for dup Alk sample.
			24																											

Comments :

Rosette sampling log mission 2006-18

Vessel CCGS Louis S. St-Laurent

Cast 10
 Event # 10
 Station CCG1

Water depth 217
 Cast depth 214 + Salt

Date 2006/08/04
 Local time (Time Zone) 1154
 UTC time (start) 1454

Cast #	Sample # Stn	Act Sample # Press Depth	Target Raw Nom Press Depth	ROS BOT #	BOTTLE INTEGRITY	FW-Alkalinity	Bacteria	Nutrients	Ba	O18	SALINITY
	65	214	Bot	1	✓✓		✓	✓✓	✓		✓✓
	66		100	2	✓✓		✓	✓✓	✓	✓	✓✓
	67		75	3	✓✓		✓	✓✓	✓		✓✓
	68		75	4	✓✓		✓	✓✓	✓		✓✓
	69	45	CHIM	5	✓✓		✓	✓✓	✓		✓✓
	70		5	6	✓✓		✓	✓✓	✓	✓	✓
				7							
				8							
				9							
				10							
				11							
				12							
				13							
				14							
				15							
				16							
				17							
				18							
				19							
				20							
				21							
				22							
				23							
				24							

Position : 68 06.05
 114 15.69

St Scan: 8450

After cast replaced all remaining unbaked top and bottom large o rings. All large o rings are now baked. ~~MS~~ MD

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 2006-18

Vessel CCGS Louis S. St-Laurent

Cast 09
~~Event #~~
 Station QM2

Water depth 119
 Cast depth 111 + 7

Date 2006/08/02
 Local time (Time Zone) 0348
 UTC time (start) 0748

Cast #	Sample # Str	Act Samp # Press depth	Raw Nom Press depth	ROS BOT #	BOTTLE INTEGRITY	FW-Alkalinity	Bacteria	Nutrients	Ba	O18	SALINITY
	61	111	Bot	1	✓✓		✓	✓✓	✓	✓	✓✓
	62	50	chl	2	✓✓		✓	✓✓✓	✓✓	✓	✓
	63	35	35	3	✓✓		✓	✓✓	✓	✓	✓
	64		5	4	✓✓		✓	✓	✓	✓	✓
				5							
				6							
				7							
				8							
				9							
				10							
				11							
				12							
				13							
				14							
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				16							
				17							
				18							
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				20							
				21							
				22							
				23							
				24							

Position: 68° 39.97' N
 103° 00.44' W

Start Scan: ~ 6000

← spigot open when rosette recovered

← did not trip

Comments : Bottles tripped on Up cast or Down cast: UN

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 2006-18

Vessel CCGS Louis S. St-Laurent

Cast # 008
 Event # _____
 Station QMI

Water depth 58
 Cast depth 51 + 5m salt

Date 2006/08/02
 Local time (Time Zone) 0152 EDT
 UTC time (start) 0452

*Knudsen 1465 m/s
 bathy + 9*

depth, not pressure

Position: 68 52.57
 101 51.97
 Start Scan: 10900

Cast #	Sample # Sta	Act Samp # Press Depth	Raw Nom Press depth	ROS BOT #	BOTTLE INTEGRITY	FW-Alkalinity	Bacteria	Nutrients	Ba	O18	SALINITY
	56	51	Bot	1	✓✓		✓	✓✓	✓	✓	✓✓
	57	46	50	2	✓✓		✓	✓	✓	✓	✓✓
	58	25	Chl	3							
	59		Chl	4	✓✓		✓✓	✓✓	✓✓	✓	✓✓
	60		5	5	✓✓		✓	✓✓	✓	✓	✓✓
				6							
				7							
				8							
				9							
				10							
				11							
				12							
				13							
				14							
				15							
				16							
				17							
				18							
				19							
				20							
				21							
				22							
				23							
				24							

Comments : Bottles tripped on Up cast or Down cast: *UN*
 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 2006-18

Vessel CCGS Louis S. St-Laurent

Event # 7
 Station 7

Water depth 112
 Cast depth 106

Date 31 July 2006
 Local time (Time Zone) 0845J
 UTC time (start) 1245

scan 18800

Cast #	Sample # Stn	Actual Samp #	Raw Nom Press	ROS BOT #	BOTTLE INTEGRITY	FW-Alkalinity	Bacteria	Nutrients	Ba	O18	SALINITY
	31	106	bot	1	✓		✓	✓	✓	✓	✓
	52		175	2	✓		✓	✓	✓	✓	✓
	53		50	3	✓		✓	✓	✓	✓	✓
	54	35	chl	4	✓		✓	✓	✓	✓	✓
	55		5	5	✓		✓	✓	✓	✓	✓
				6							
				7							
				8							
				9							
				10							
				11							
				12							
				13							
				14							
				15							
				16							
				17							
				18							
				19							
				20							
				21							
				22							
				23							
				24							

Position: 69 49.31
 99 19.72
 Lots of ice

First downcast made with pumps off.
 Second starts at scan 18800

Comments : Bottles tripped on Up cast or Down cast: UN
 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 2006-18

Vessel CCGS Louis S. St-Laurent

Cast 6
 Event # _____
 Station BE3A

Water depth 425
 Cast depth 422

Date 30 July 2006
 Local time (Time Zone) 3 pm
 UTC time (start) 1903

Cast #	Sample # Stn	Act Samp # Press	Raw Nom Press	ROS BOT #	BOTTLE INTEGRITY	FW-Alkalinity	Bacteria	Nutrients	Ba	O-18	SALINITY
	42	422	bottom	1	✓✓						✓
	43		350	2	✓✓						✓
	44		250	3	✓✓		↓	↓	↓	↓	✓
	45		250	4	✓✓		↓	↓	↓	↓	✓
	46		150	5	✓✓		↓	↓	↓	↓	✓
	47		50	6	✓✓		↓	↓	↓	↓	✓
	48		35	7	✓✓		↓	↓	↓	↓	✓
	49		25	8	✓✓		↓	↓	↓	↓	✓
	50		5	9	✓x						
				10							
				11							
				12							
				13							
				14							
				15							
				16							
				17							
				18							
				19							
				20							
				21							
				22							
				23							
				24							

Position : 71° 49.93' N
 96° 00.83' W

st scan 5900

← lower large O-ring leaks

Comments : Bottles tripped on Up cast or Down cast: VN

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 2006-18

Vessel CCGS Louis S. St-Laurent

Cast Event # 5
 Station BE3

Water depth 132
 Cast depth 125

Date 2006/07/30
 Local time (Time Zone) _____
 UTC time (start) 1717

Cast #	Sample # Stn	Act Samp # Press	Raw Nom Press	ROS BOT #	BOTTLE INTEGRITY	FW-Alkalinity	Bacteria	Nutrients	Ba	O18	SALINITY
	35	125	Bot	1			✓	✓	✓	✓	✓
	36		100	2							
	37		75	3			✓	✓			
	38		75	4				✓			
	39		50	5				✓			✓
	40	28	Out 30	6					✓		
	41		5	7			✓	✓	✓	✓	✓
				8							
				9							
				10							
				11							
				12							
				13							
				14							
				15							
				16							
				17							
				18							
				19							
				20							
				21							
				22							
				23							
				24							

Position : 71 57.40
 95 15 42

st scan 13800

← Top End cap caught & did not close

Comments : Bottles tripped on Up cast or Down cast: UN
 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 2006-18

Vessel CCGS Louis S. St-Laurent

Cast 4
 Event # _____
 Station Bellot

Water depth ?
 Cast depth 181

Date 2006/07/30
 Local time (Time Zone) 0853
 UTC time (start) 1253

Cast #	Sample # Stn	Act Samp # Press	Raw Nom Press	ROS BOT #	BOTTLE INTEGRITY	FW-Alkalinity	Bacteria	Nutrients	Ba	O18	SALINITY
	24	181	bot	1	✓✓		✓	✓✓✓	✓	✓	✓
	25	150	250	2	✓✓		✓	✓✓	✓	✓	✓✓
	26	100	100	3	✓✓						
	27	100	100	4	✓✓		✓		✓✓	✓	✓
	28	75	75	5	✓✓			✓✓✓	✓		
	29		50	6	✓✓			✓✓			
	30		40	7	✓						
	31		30	8	✓✓						
	32		20	9	✓✓						
	33		10	10	✓✓			✓✓			
	34		5	11	✓✓		✓	✓	✓	✓	✓
				12							
				13							
				14							
				15							
				16							
				17							
				18							
				19							
				20							
				21							
				22							
				23							
				24							

Position : 71
 st scan 2800

large wire angle - no good sounding
 cast stopped while still well above bottom.

← slow drip from spigot

Just sample on #11
 No dip on bacteria

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 2006-18

Vessel CCGS Louis S. St-Laurent

Event # 003
 Station PE5

Water depth 348 356
 Cast depth 345

Date 29/07/2006
 Local time (Time Zone) 1904
 UTC time (start) 2304

Cast #	Stn	Samp #	Raw Nom Press	ROS BOT #	BOTTLE INTEGRITY	FW-Alkalinity	Bacteria	Nutrients	Ba	O18	SALINITY
3	PEC	16 345	150	1	✓✓		✓	✓✓	✓	✓	✓✓
		17	250	2	✓✓		✓	✓✓	✓	✓	✓✓
		18	200	3				✓✓			
		19	150	4	✓✓			✓✓	✓		
		20	100	5	✓✓		✓	✓✓		✓	
		21	50	6	✓✓			✓✓			
		22	25	7	✓			✓✓			
		23	5	8	✓✓		✓	✓	✓	✓	✓✓
				9	✓✓						
				10	✓✓						
				11	✓✓						
				12	✓✓						
				13	✓✓						
				14	✓✓						
				15	✓✓						
				16	✓✓						
				17	✓✓						
				18	✓✓						
				19	✓✓						
				20	✓✓						
				21	✓✓						
				22	✓✓						
				23	✓✓						
				24	✓✓						

st scan 5200

← bottle did not close

← slow drip from spigot - O-ring replaced @ top end cap.

Comments : Bottles tripped on Up cast or Down cast: UN

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 2006-18

Vessel CCGS Louis S. St-Laurent

Event # Cast 2
 Station PE3

Water depth 244 m
 Cast depth 235 db

Date 28 July 2006
 Local time (Time Zone) 01:20 pm eastern OT
 UTC time (start)

Cast #	Stn	Samp #	Raw Nom Press	ROS BOT #	BOTTLE INTEGRITY	FW-Alkalinity	Bacteria	Nutrients	Ba	O18	SALINITY
		235	250 ✓	1			X	XX	X	X	XX
		205	200 ✓	2			X	XXXX	X	X	X
		11	150 ✓	3							
		12	100 ✓	4			X	XX	X	XX	X
		13	50 ✓	5			X	XX	X	X	X
		14	25 ✓	6			XX	XXXX	XX	X	X
		15	5 ✓	7			X	XX	X	X	XX
				8							
				9							
				10							
				11							
				12							
				13							
				14							
				15							
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				22							
				23							
				24							

scan 12600

Bottle 3 did not close on deck, after cast checked pin was not stuck but did not try tripping via PC/deck unit.

A large wire angle, due to wire bent around ice, meant altimeter did not see bottom. Stopped ~20m off bottom in case wire suddenly might snap free.

- Comments : Bottles tripped on Up cast or Down cast: UN
- 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?