

Rosette Log for IOS Cruise ID 2008-30

Cast # 29 UTC Date (ddmmmyyyy) 27 Jul 2008 Ice Coverage 10 Water Depth(below hull) 1597 m
 Station RS-2 UTC Time 2118 In Air pressure (before/after) -1.96, -1.0 Sound Speed 1479
 CTD File 200830-029 Lat (N) 75 39.626 Lon (W) 156 15.565 CTD Operator sz/mo/walker

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DOC (WHOI)	BGC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137
575		1574	1	✓✓	✓	7332	2	311,421	4.4										1		(3)	✓					
576		1500	2	✓✓	✓	7383, 7504	✓	306	4.4										2		✓	✓		-			
577		1200	3	✓✓	✓	7353		9	4.3										3		✓	✓					
578		1000	4	✓✓	✓	7357		402	4.1					✓	✓				4								
579		900	(5)	✓✓	✓	9069		11	4.0										5								
580		800	(6)	✓✓	✓	7475	3	425,428,321	3.8					✓	✓				6								
581		700	(7)	✓✓	✓	7357	1	325	3.5										7								
582		600	(8)	✓✓	✓	7201	1	327	3.4										8						✓✓		
583		500	9	✓✓	✓	7223		14	3.2					✓✓	✓				9				-				
584	turn	455	10	✓✓	✓	8980		412	3.1					✓✓	✓				10								
585		400	(11)																11								
586	34.7	351	12	✓✓	✓	9837		318	3.3										12								
587	34.6	323	13	✓✓	✓	7166		328	3.7										13								
588	34.4	285	14	✓✓	✓	7488		407	4.1					✓	✓				14				-	✓	✓		
589	34	253	15	✓✓	✓	7629		405	4.3					✓	✓				15								
590	33.7	237	16	✓✓		7433		102	4.4										16								
591	33.4	225	(17)	✓✓	✓	7433													17								
592	33.1	203	(18)	✓✓	✓	9024		308	4.5					✓	✓				18								
593	32.9	182	19	✓✓	✓	9047, 9066		403	4.2					✓	✓				19								
594	32.6	145	20	✓✓			✓	119	4.1										20								
595	32.3	115	21	✓✓	✓	9054	4	8,424	3.8										21								
596	60	chlam	22	✓✓			✓	17	3.9					✓	✓				22								
597		20	23	✓✓	✓	7637	✓	316	3.6					✓	✓				23								
598		5	24	✓✓	✓	7222	✓	122	2.8					✓	✓				24		(3)	✓✓			✓✓		

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments:

on recovery: Bottles 5,6,7,8,11,17,18 all popped off frame when Rosette swung into side of ship. middle bracket on 11 chipped.

Rosette Log for IOS Cruise ID 2008-30

Cast #28

Station RS1

CTD File 200830-28

UTC Date (ddmmmyyyy) 29 | 07 | 2008

UTC Time 18:08

Lat (N) 74 44.593

Ice Coverage 0/10

In Air pressure (before/after) -1.151

Lon (W) 157 560

Water Depth(below hull) 1000 m

Sound Speed 1479

CTD Operator EF

~2m
swell + white caps

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown or C-13 (K. Brown))	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137
551	Bottom	993	1 ✓	✓✓			W	422 28	4.1				✓	✓				1		VW	✓					
552		900	2 ✓	✓✓				22	4.2								✓	2			✓					
553		800	3 ✓	✓✓	✓	9054		27	4.0				✓	✓				3								
554		700	4 ✓	✓✓				20	3.9									4								
555		600	5 ✓	✓✓				413	3.8									5								
556		500	6 ✓	✓✓	✓	9114		2	3.4				✓	✓				6						12		
557	Turn	470	7 ✓	✓✓	✓✓	5 7552, 7676		6	3.4				✓	✓				7								
558	Turn	450	8 ✓	✓✓				305	3.3				✓	✓				8								
559		400	9 ✓	✓✓	①	* 1224	③	4, 23, 426	3.5									9								
560	34.75	371	10 ✓	✓✓				13	3.5									10			✓					
561	34.7	355	11 ✓	✓✓	②	* 9061		17	3.6									11	✓			✓	✓			
562	34.6	327	12 ✓	✓✓				16	3.7								✓	12						✓✓		
563	34.4	292	13 ✓	✓✓				101	4.4				✓	✓				13	✓			✓	✓	✓✓		
564	34	256	14 ✓	✓✓	✓	* 8978		12	5.1				✓	✓				14				✓	✓	✓✓		
565	33.9	243	15 ✓	✓✓				5	5.1									15								
566	33.4	229	16 ✓	✓✓				1	5.2									16								
567	33.1	206	17 ✓	✓✓	✓	410		127	5.2				✓	✓				17								
568	32.9	184	18 ✓	✓✓				303	5.1				✓	✓				18								
569	32.6	142	19 ✓	✓✓				26	5.2									19								
570	32.3	112	20 ✓	✓✓	✓	741+		7	4.7				✓	✓				20								
571	31.9	56	21 ✓	✓✓				310	4.3				✓	✓		✓✓		21								
572	31.5	38	22 ✓	✓✓				411	4.7									22								
573	31.1	20	23 ✓	✓✓				24	4.6				✓	✓				23			✓					
574	30.7	5	24 ✓	✓✓			✓✓	19 125	3.7				✓	✓		✓	✓	24	✓		✓	✓	✓	✓		

← CHANGE LABELS

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.
Comments:

add more H₂O₂ and put into DIC box in the cooler
Good

Rosette Log for IOS Cruise ID 2008-30

Cast # 27 UTC Date (ddmmmyyyy) 29 / 07 / 2008 Ice Coverage 0 / 10 Water Depth(below hull) 3840 m
 Station RS-6 UTC Time 11:19 In Air pressure (before/after) -1.08 / -1.19 Sound Speed 1479
 CTD File 200830-027 Lat (N) 75 30.79 Lon (W) 155 16.135 CTD Operator EF

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-29	Cs-137
527	Bottom	3832	1	VV			V	311	4.3										1		W	W					
528		3100	2	VV			VV	421, 424	4.3									(V)	2			V					
529		2500	3	VV				306	4.2										3								
530		2000	4	VV				9	4.2										4								
531		1500	5	VV				402	4.1										5								
532		1000	6	VV				11	3.8					W	V				6								
533		800	7	VV	V	7325		425	3.6					W	V				7								
534		600	8	VV				428	3.3										8								
535		500	9	VV	V	9069		321	3.2					W	V				9								
536	LMOR	461	10	VV	V	7475 7637		325	3.0					W	V				10				V	V			
537		400	11	VV				327	3.2										11				V	V			
538	34.75	363	12	VV			(3)	14, 17, 401	3.2										12			W					
539	34.6	316	13	VV				412	4.0									(V)	13				V	V			
540	34.4	280	14	VV				107	4.7					W	V				14								
541	34	248	15	VV				318	5.0					W	V				15								
542	33.5	226	16	VV				328	5.3					W	V				16								
543	33.1	200	17	VV	(X)	9047		407	5.5					W	V				17								
544	32.9	180	18	VV				405	5.5					W	V				18								
545	32.6	143	19	VV				102	5.3										19				W	V			
546	32.3	112	20	VV	V	7222		106	5.2					W	V				20								
547	chl	53	21	VV				308	4.3					W	V				21	V							
548	+min	43	22	VV				403	4.7					W	V				22	V							
549		20	23	VV			VV	119, 316	4.6					W	V				23	V		V					
550		5	24	VV			V	8	4.4					W	V			V	24	V	W	W	V				

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments: stole 34.7 bottle for surface

dups - one set for filter, one set "CDOM"

amb lose

Rosette Log for IOS Cruise ID 2008-30

Cast # 26

UTC Date (ddmmmyyyy) 29 JUL 2008

Ice Coverage 0 /10

Water Depth(below hull) 3838 m

Station CB-5

UTC Time 0435

In Air pressure (before/after) -0.18 -1.1

Sound Speed 1479 m/s

CTD File 200830-026

Lat (N) 75 19.164

Lon (W) 153 16.835

CTD Operator SZ/KY

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	429	CS-137
503		3100	1	✓	✓		✓	422	4.4										1		③	✓	✓	✓			
504		2500	2	✓	✓		③	28.24, 417	4.4									②	2		1	✓	✓	✓			
505		2000	3	✓	✓		✓	22	4.3										3								
506		1500	4	✓	✓	✓	✓	7166	4.2										4								
507		1200	5	✓	✓	✓	✓	1224, 7488	4.0										5								
508		1000	6	✓	✓	✓	✓	7422	3.9					②	②				6								
509		800	7	✓	✓	✓	✓	7223	3.6					②	②				7								
510		500	8	✓	✓			6	3.2					②	✓				8								
511	max	470	9	✓	✓	✓	✓	8980	3.1					②	②				9				✓	✓			
512		400	10	✓	✓			23	3.3										10								
513	34.75	376	11	✓	✓			4	3.3										11								
514	34.6	334	12	✓	✓			426	3.6					②	②				12								
515	34.4	297	13	✓	✓			13	4.1								②		13				✓	✓			
516	34	257	14	✓	✓			17	3.7					②	②				14								
517	33.5	232	15	✓	✓		②	16, 101	4.8					②	②			✓	15								
518	33.1	201	16	✓	✓	✓	✓	9066	4.8					②	②			✓	16			✓					
519	32.9	181	17	✓	✓			5	4.9					②	②			✓	17								
520	32.6	147	18	✓	✓			1	4.7									✓	18								
521	32.3	117	19	✓	✓	✓	✓	9857	4.6					②	②			✓	19								
522	max	90	20	✓	✓		②	303, 14	5.1								②	✓	20				✓	✓			
523	chl	66	21	✓	✓			26	4.8					②	②		②	✓	21								
524	min	48	22	✓	✓			7	4.7								②	✓	22	✓							
525		20	23	✓	✓			310	4.5					②	②		②	✓	23	✓							
526		5	24	✓	✓		✓	411	4.1					②	②		②	✓	24	③	③	✓	✓	✓			

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments:

stole 600m bottle for surface

+34.7, stole bottom bottle for 1200m eddy

1120-1350 Eddy

one set fresh
two sets frozen

After all sampled

Fill cube
w/ EXTRA H₂O
For SALT
STANDARD

Eddy

Rosette Log for IOS Cruise ID 2008-30

Cast # 25 UTC Date (ddmmmyyyy) 28 | 07 | 2008 Ice Coverage 0 / 10 Water Depth (below hull) 3817 m
 Station CB4 UTC Time 07:13 In Air pressure (before/after) -0.90 / -0.95 Sound Speed 1479
 CTD File 200830- Lat (N) 75 1.288 Lon (W) 149 54.072 CTD Operator EF / MW

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	129	CS-137
479	Bot-2	3807	1	✓	✓	9066	✓	422	4.3	✓	✓	✓	✓		✓			1	✓	✓	✓	✓				
480		3100	2	✓	✓	7222	✓	28,26	4.3	✓	✓	✓	✓		✓		✓	2	✓	✓	✓	✓				
481		2500	3	✓	✓			24	4.3	✓	✓	✓	✓		✓			3								
482		2000	4	✓	✓	7417		417	4.2	✓	✓	✓	✓		✓			4			✓					
483		1500	5	✓	✓	7629		22	4.1	✓	✓	✓	✓		✓			5								
484		1000	6	✓	✓	9047		27	3.8	✓	✓	✓	✓	✓	✓			6								
485		800	7	✓	✓	8978		20	3.5		✓	✓	✓	✓	✓			7								
486		600	8	✓	✓	9837		413	3.2	✓	✓	✓	✓					8								
487		500	9	✓	✓	7637		2	3.1			✓	✓	✓	✓			9	✓			✓	✓			
488	1 max	456	10	✓	✓	1906		6	3.0					✓	✓	✓		10	✓			✓	✓			
489		400	11	✓	✓	7332	✓	305,7	3.1		✓							11								
490	34.5	361	12	✓	✓	7676, 7504		23	3.0									12								
491	34.7	346	13	✓	✓	7353		4	3.1	✓	✓							13								
492	34.6	320	14	✓	✓	7357		426	3.2		✓			✓	✓			14								
493	24.4	283	15	✓	✓	7552		13	3.7		✓						✓	15	✓			✓	✓			
494	34	252	16	✓	✓	7352		17	4.1					✓	✓			16								
495	33.3	223	17	✓	✓	7166		16	4.4	✓	✓							17				✓	✓			
496	33.1	197	18	✓	✓	9114		101	4.4		✓		✓	✓	✓			18								
497	32.9	179	19	✓	✓	9069		12	4.4	✓	✓			✓	✓			19								
498	32.6	148	20	✓	✓	7488		5	4.2		✓					✓		20								
499	32.3	122	21	✓	✓	410		1	4.2		✓	✓		✓	✓			21								
500	11 max	64	22	✓	✓	7475		127	3.1	✓			✓	✓	✓			22								
501		20	23	✓	✓	7433		303	3.2	✓	✓			✓	✓	✓		23								
502		5	24	✓	✓	9054	✓	19	2.8	✓	✓	✓	✓	✓	✓	✓		24	✓	✓	✓	✓	✓			

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments:

Sampling finished at 8:30 (sig time)

DOC
 ✓ duplicate 1.5L * 500mL
 ✓ freeze 500mL * 200mL
 ✓ filter 1.5L * 500mL

Full chem

6.8 dup
 7.5 2.7 9.2
 +12
 8.5
 7.5 → 8.0

8.5
 8.8
 8.2
 7.7
 6.5
 6.7
 8
 7.2
 7.5
 7.5
 9 → 8.3
 8.5
 8.8
 7.5 → 8.5
 7.7 → 8.9
 10 → 9
 7.5 → 8.0
 8.9

Rosette Log for IOS Cruise ID 2008-30

Cast # 24 UTC Date (ddmmmyyyy) 27/07/2008 Ice Coverage /10 Water Depth(below hull) 3818 m
 Station CB4 UTC Time 2144 In Air pressure (before/after) -0.9 / -0.9 Sound Speed 1479 m/s
 CTD File 200830-024 Lat (N) 74 59.519 Lon (W) 150 3.377 CTD Operator SZ

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DOC (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT	SAL	OT8	Ba	PH4	129	C-137
455	C	1000	1 ✓	✓			✓	311, 308						✓					1			✓					
456	I	550	2 ✓	✓	✓	4537	✓	421	3.4										2								
457	I	540	3 ✓	✓				424											3								
458	I	530	4 ✓	✓				306	3.4										4								
459	I	520	5 ✓	✓	✓	1224		322	3.2										5								
460	I	510	6 ✓	✓	✓	9114		402	3.1										6								
461	I	500	7 ✓	✓	✓	9024		11											7								
462	I	490	8 ✓	✓	✓	9069 7147 7223		425	2.9										8								
463	I	480	9 ✓	✓	✓	7488			2.9										9								
464	I	470	10 ✓	✓				321											10								
465	I	460	11 ✓	✓	✓	41d		325	2.7										11								
466	I	450	12 ✓	✓	✓	9054		327	2.7										12								
467	I	440	13 ✓	✓	✓	7201 3604 7205 7206		14											13								
468	I	430	14 ✓	✓	✓	7383		17											14								
469	I	420	15 ✓	✓	✓	8980 7475		401	2.4										15								
470	C	390	16 ✓	✓		5pm 05 50	✓	412, 403	2.4										16		✓	✓					
471	C	270	17 ✓	✓		15 40		125, 119	3.2					✓					17		✓						
472	C	180	18 ✓	✓		11 110 11		318, 316	3.9					✓					18								
473	C	90	19 ✓	✓		85		328, 320	2.9								✓		19								
474	C	72	20 ✓	✓		60 54		407, 08	2.4								✓		20								
475	C	55	21 ✓	✓		22 21		405, 315	2.0								✓		21	✓			✓	✓			
476	C	30	22 ✓	✓		69 39		102, 103	2.8								✓	✓	22	✓			✓	✓			
477	C	5	23 ✓	✓		28 40	✓	106, 104	2.0					✓			✓		23		✓	✓					
478	C	5	24 ✓	✓		extra bottle													24								

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments: "C": calibration bottles: stop 30 sec, 30 sec TRIP

"I": intrusion study, bring end up at 30m/min

Down in C 30 m/s

2 min/bottle = 1 hr

Intrusion + Calibration

~12

CTD

~12

others?

↑

SALT:

15 m 25 psu

30 m 26.8

180 m 32.9

390 m 34.78
(stop) (+ tmax)

Oxy:

15 m 7.4 ml/l

30 m 8.2

270 m 6.0 ml/l

1000 m deep

8 bottles

CDOM:

15 m lowest

180 m high

270 m mid

1000 m Low

(none in air)
water 59

Chl-a

0.75 MAX

5 min

50 MIO

Rosette Log for IOS Cruise ID 2008-30

Cast #23

Station CB 6

CTD File 200830-023

UTC Date (ddmmmyyyy) 26 | 07 | 2008

UTC Time 23 39

Lat (N) 74 29.977

Ice Coverage /10

In Air pressure (before/after) -851

Lon (W) 147 44.117

Water Depth(below hull) _____ m

Sound Speed _____

CTD Operator 32 /MO/ww

1500 m/s except 5 sec Return

(ships log) 1479 m/s

20 min 24 chirp 0.8 block sent off

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-429	Cs-137
431	Bottom	3790	1	✓	✓		✓	308 407	4.4										1		✓	✓					
432		3100	2	✓	✓	9837		311	4.3									✓	2	✓		✓	✓	✓			
433		2500	3	✓	✓			421	4.3										3								
434		2000	4	✓	✓			424	4.2										4								
435		1500	5	✓	✓			306	4.1										5								
436		1000	6	✓	✓		③	9.8, 310	3.8					✓	✓				6								
437		800	7	✓	✓	1224		402	3.7					✓	✓				7								
438		600	8	✓	✓			11	3.3										8								
439		500	9	✓	✓			425	3.2					✓	✓				9								
440	Tmax	459	10	✓	✓	9114		428	3.2					✓	✓				10								
441		400	11	✓	✓			321	3.1										11								
442	34.75	362	12	✓	✓			325	3.2										12	✓			✓	✓			
443	34.7	347	13	✓	✓			327	3.3										13								
444	34.6	320	14	✓	✓			14	3.5					✓	✓				14								
445	34.4	285	15	✓	✓			17	3.9									✓	15	✓			✓	✓			
446	34	252	16	✓	✓			401	4.5					✓	✓				16								
447	33.5	229	17	✓	✓			412	4.9										17								
448	33.1	203	18	✓	✓	9024		405	5.4					✓	✓				18								
449	32.9	181	19	✓	✓			125	4.5					✓	✓				19								
450	32.6	152	20	✓	✓	7417		119	5.2										20								
451	32.3	126	21	✓	✓			316	4.3					✓	✓		✓		21								
452	31 max	75	22	✓	✓			318	3.5					✓	✓		✓		22								
453		20	23	✓	✓			328	3.5					✓	✓		✓		23								
454		5	24	✓	✓		✓	320	0.1					✓	✓		✓		24								

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments:

30 min
low priority

Rosette Log for IOS Cruise ID 2008-30

Cast # 23 UTC Date (ddmmmyyyy) 26 | 07 | 2008 Ice Coverage /10

Station CB 6 UTC Time 23 39

CTD File 200830-023 Lat (N) 74 29.977

In Air pressure (before/after) -0.851

Lon (W) 147 44.117

Water Depth(below hull) _____ m

Sound Speed _____

CTD Operator 32 /MO/WW

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-429	Cs-137
431	Bottom	3700	1 ✓	✓			✓	308 407	4.4										1		W	Y					
432		3100	2 ✓	✓	✓	9837		311	4.3									✓	2	✓		✓	✓	✓			
433		2500	3 ✓	✓				421	4.3										3								
434		2000	4 ✓	✓				424	4.2										4								
435		1500	5 ✓	✓				306	4.1										5								
436		1000	6 ✓	✓			(3)	9,8,310	3.8					✓	✓				6								
437		800	7 ✓	✓	✓	1224		402	3.7					✓	✓				7								
438		600	8 ✓	✓				11	3.3										8								
439		500	9 ✓	✓				425	3.2					✓	✓				9								
440	Tmax	459	10 ✓	✓	✓	9114		428	3.2					✓	✓				10								
441		400	11 ✓	✓				321	3.1										11								
442	34.75	362	12 ✓	✓				325	3.2										12	✓			W	W			
443	34.7	347	13 ✓	✓				327	3.3										13								
444	34.6	320	14 ✓	✓				14	3.5					✓	✓				14								
445	34.4	285	15 ✓	✓				17	3.9									✓	15	✓			Y	Y			
446	34	252	16 ✓	✓				401	4.5					✓	✓				16								
447	33.5	229	17 ✓	✓				412	4.7										17								
448	33.1	203	18 ✓	✓	✓	9024		405	5.4					✓	✓				18								
449	32.9	184	19 ✓	✓				125	4.5					✓	✓				19								
450	32.6	152	20 ✓	✓	✓	7417		119	5.2										20								
451	32.3	126	21 ✓	✓				316	4.3					✓	✓		✓		21								
452	Chl max	75	22 ✓	✓				318	3.5					✓	✓		✓		22								
453		20	23 ✓	✓				328	3.5					✓	✓		✓		23								
454		5	24	✓			✓	320	0.1					✓	✓		✓		24	✓	✓	✓	✓	✓			

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments:

30"
low priority

Power 4
20-24 chimp 0.8 black
sen off
(ships log)
1479 m/s
1500 m/s
except
5 sec
Return

Rosette Log for IOS Cruise ID 2008-30

Ship: *CCGS Louis S St-Laurent*

Cast # 22

UTC Date (ddmmmyyyy) 26 | 07 | 2008

Ice Coverage 0/10

Water Depth(below hull) 3749 m

Station CB3

UTC Time 17:05

In Air pressure (before/after) -0.791 - 0.18

Sound Speed 1450

CTD File 200830-22

Lat (N) 73 59.981

Lon (W) 150 02.2

CTD Operator IF / MW

low off bottom

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	1429	Cs-137
407	Bottom		1	✓✓	✓	7222	Y	missed!											1		(3)	✓					
408		3100	2	✓✓				103	4.2									✓	2	✓	✓✓		✓	✓			
409		2500	3	✓✓				106	4.5										3								
410		2000	4	✓✓				104	4.3										4								
411		1500	5	✓✓				105	4.3										5								
412		1000	6	✓✓				108	4.0					✓	✓				6								
413		800	7	✓✓	✓	7433		109	3.9					✓	✓				7								
414		600	8	✓✓			W	110 111	3.4					✓	✓				8								
415		500	9	✓✓				112	3.0					✓	✓				9			✓✓			(16)		
416		450	10	✓✓				113	3.3										10		(3)						
417	Tmax	432	11	✓✓	W	7488, 7475		114	3.3					✓	✓				11	✓			✓	✓	W		
418	34.75	365	12	✓✓				115	3.0										12								
419	34.7	343	13	✓✓			W	116 117	3.0									✓	13	✓			✓	✓			
420	34.6	311	14	✓✓				313	4.0					✓	✓			✓	14						✓✓		
421	34.4	279	15	✓✓				315	4.0										15	✓			✓	✓	✓		
422	34	242	16	✓✓				118	4.7					✓	✓				16								
423	33.5	216	17	✓✓				120	4.9					✓	✓				17								
424	33.1	195	18	✓✓	✓	9047		121	5.3					✓	✓				18		(3)		✓✓	✓✓			
425	32.9	176	19	✓✓			(3)	123 122 124	5.1					✓	✓				19								
426	32.6	149	20	✓✓	✓	7627		126	5.2										20								
427	32.3	123	21	✓✓				418	5.1					✓	✓		✓		21								
428	chl Max	68	22	✓✓				409	3.8					✓	✓		✓✓		22								
429	26	20	23	✓✓				314	3.6					✓	✓		✓		23								
430	5	X	24	✓✓			✓	304	1.7					✓	✓		✓	✓	24	✓	W	W	✓	✓	W		

+ 24 extra
sals @
3100m (Bot2)

3 Releases
attached

equally
distributed
around
rosette

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments:

↑
low priority

Rosette Log for IOS Cruise ID 2008-30

Ship: *CCGS Louis S St-Laurent*

Cast # 21 UTC Date (ddmmmyyyy) 26 | 07 | 2008 Ice Coverage 0 /10 Water Depth(below hull) 3680 m
 Station CB 2 UTC Time 09 46 In Air pressure (before/after) 1 -0.93 Sound Speed 1450
 CTD File 200830-21 Lat (N) 73 0.00 Lon (W) 150 0.01 CTD Operator EF/HW

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137
383	Bottom		1	✓✓			✓	420, 308	4.5										1		W	W					
384		3100	2	✓✓	✓	7223		407	4.4										2	✓	W		✓	✓			
385		2500	3	✓✓				311	4.3										3		(3)						
386		2000	4	✓✓			(3)	421 316, 302	4.3										4		W						
387		1500	5	✓✓				424	3.9										5								
388		1000	6	✓✓				306	3.5					✓	✓				6								
389		800	7	✓✓	✓	7417		9	3.3					✓	✓				7								
390		600	8	✓✓				8	2.9										8								
391		500	9	✓✓				310	3.0					✓	✓				9						16		
392		450	10	✓✓				402	2.9										10								
393	Tmax	425	11	✓✓	✓✓	9024, 9114		11	2.7					✓	✓				11			W					
394	34.75	360	12	✓✓				425	3.0										12								
395	34.7	337	13	✓✓				428	3.2										13	✓			✓	✓			
396	34.6	304	14	✓✓				321	2.9									Y	14						✓✓		
397	34.4	267	15	✓✓			W	325, 328	3.7					✓	✓				15	Y			✓	✓	✓✓		
398	34	232	16	✓✓				327	4.1					✓	✓				16						✓✓		
399	33.5	203	17	✓✓				14	4.2										17		W				✓✓		
400	33.1	164	18	✓✓	✓	9224	W	17, 405	4.1					✓	✓			✓	18		(3)				✓✓		
401	32.9	157	19	✓✓				401	4.1					✓	✓				19		W				✓✓		
402	32.6	128	20	✓✓	✓	9837		412	4.1									Y	20						✓✓		
403	32.3	105	21	✓✓				403	4.9					✓	✓		✓		21						✓✓		
404	Chl max	63	22	✓✓				125	5.0					✓	✓		✓		22		W				✓✓		
405	20	20	23	✓✓				119	4.4					✓	✓		✓		23		(3)				✓✓		
406	5	5	24	✓✓			✓	24	0.5					✓	✓		✓		24	✓	W	✓	✓	✓	✓✓		

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.
 Comments:

NH4 were taken 30min after everything else were done

420 - upper
 Sal
 cubetainer

Rosette Log for IOS Cruise ID 2008-30

Ship: *CCGS Louis S St-Laurent*

Cast # 20

UTC Date (ddmmmyyyy) 26/07/2008

Ice Coverage /10

Water Depth(below hull) 1993 m

Station BL-6

UTC Time 02:01

In Air pressure (before/after) -0.81

Sound Speed 1450

CTD File 200830-020

Lat (N) 71 39.511

Lon (W) 151 13.9

CTD Operator MD/S2/WW

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137
359	Bottom		1	✓	✓		✓	422,303	4.2										1		✓	✓					
360		1500	2	✓	✓	✓	✓	028,019	4.0									✓	2	✓			✓	✓			
1		1200	3	✓	✓		✓	026	3.9										3								
2		1000	4	✓	✓	✓	✓	024,411	3.5					W	W	✓			4								
3	900	800	5	✓	✓	✓	✓	417	3.4					W	W	✓			5								
4		700	6	✓	✓		✓	022	3.2										6								
5		600	7	✓	✓		✓	027	3.1										7								
6		500	8	✓	✓	✓	✓	020	2.8					W	W	✓			8						16		
7		400	9	✓	✓	✓	✓	413	2.8										9								
8	Timax	342	10	✓	✓	✓	✓	002	2.8					W	W	✓			10	✓			✓	✓			
9	34.75	308	11	✓	✓		✓	006	3.0									✓	11	✓			✓	✓			
270	34.7	280	12	✓	✓	✓	✓	305	2.9										12								
1	34.6	251	13	✓	✓		✓	007,025,021	3.3									✓	13						✓		
2	34.4	222	14	✓	✓		✓	023	3.5					W	W	✓			14	✓			✓	✓	✓		
3	34	198	15	✓	✓		✓	4	4.1					W	W	✓			15		✓	✓	✓	✓	✓		
4	33.7	179	16	✓	✓		✓	426	4.4									✓	16		✓	✓	✓	✓	✓		
5	33.4	162	17	✓	✓		✓	13	4.3									✓	17								
6	33.1	145	18	✓	✓	✓	✓	17	4.4					W	W	✓		✓	18								
7	32.9	131	19	✓	✓		✓	16	4.5					W	W	✓			19	✓							
8	32.6	108	20	✓	✓		✓	101	4.3									✓	20								
9	32.3	84	21	✓	✓	✓	✓	12	4.2					W	W	✓			21								
380	Chlmax	45	22	✓	✓		✓	25	3.9					W	W	✓			22				W	W			
381		20	23	✓	✓		✓	1	2.7					✓	✓	✓			23								
382		5	24	✓	✓		✓	127	0.6					✓	✓	✓		✓	24	✓	✓	✓	✓	✓	✓		

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments:

Q. did
T change w/
speed change?
Is transmiss
affected by
Temp?

CDOM DOC
CARBO for
Chad - labels
read Bottle 9
but Filled from
Bottle 10 as
per log.

6

64

Rosette Log for IOS Cruise ID 2008-30

Ship: *CCGS Louis S St-Laurent*

Cast # 18 UTC Date (ddmmmyyyy) 25 / 07 / 2008

Ice Coverage 0 / 10

Water Depth(below hull) 580 m

Station BL-3 UTC Time 21:13

In Air pressure (before/after) -0.9 / -0.85

Sound Speed 1450

CTD File 200830-017 / 018 Lat (N) 71 28.096

Lon (W) 151 46.750

CTD Operator SZ/KS/MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	BIC (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-TS (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137
337	Bottom		✓1	✓✓			✓	418	3.7										1		✓✓✓						
338		500	✓2	✓✓	✓	7629	✓	102	3.7			(✓)		W	W	✓			2	✓			✓	✓			
339		450	✓3				✗												3							✓	
340		400	✓4	✓✓			✗	103/106/107	3.6										4								
341	Tmax	285	✓5	✓✓	✓	7223	✓	104	3.4			(✓)		W	W	✓			5	✓			✓	✓			
342	34.75	236	✓6	✓✓			✓	105	3.5									✓	6	✓			✓	✓			
343	34.7	223	✓7				✗												7								
344	34.6	208	✓8				✗											✓	8							✓✓	
345	34.4	198	✓9	✓✓			✓	108	4.2			(✓)		W	W	✓		✓	9	✓			✓	✓	✓		
346	34	181	✓10	✓✓			✓	109	5.0			(✓)		W	W	✓		✓	10	✓			✓	✓	✓		
347	33.7	163	✓11	✓✓			✗					(✓)							11	✓	(3)	W	✓	✓	✓	✗	
348	33.4	137	✓12	✓✓			✗					(✓)						✓	12	✓			✓	✓			
349	33.1	119	✓13	✓✓	✓✓	7488, 7475	✓	110	5.2			(✓)		W	W	✓		✓	13				✓	✓			
350	32.9	105	✓14	✓✓			✓	111	5.4			(✓)		W	W	✓			14								
351	32.6	80	✓15	✓✓			✗					(✓)						✓	15	(3)							
352	Tmax	60	✓16	✓✓	✓	8980	✓	112	5.3			✓		W	W	✓	✓	✓	16								
353	Challix	40	✓17	✓✓			✓	113	5.1			(✓)		W	W	✓	W	✓	17								
354	Tmin	34	✓18	✓✓			②	114	4.9			✓		W	W	✓		✓	18								
355		20	✓19	✓✓			✓	116	4.3			(✓)		W	W	✓	✓	✓	19								
356		5	✓20	✓✓			✓	117	4.4			✓✓		W	W	✓	✓	✓	20	✓	✓	W	✓	✓	✓	✓	
			21																21								
			22																22								
			23																23								
			24																24								

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments:

* ... high priority

912

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Chl-a Methods Test

Cast # 17 UTC Date (ddmmmyyyy) 25 07 2008 Ice Coverage 0/10 w/ slow swell Water Depth(below hull) #12 640 m
Station RL-3 UTC Time 20:00 K5 In Air pressure (before/after) -0.8 / -0.88 Sound Speed 1450
CTD File 200830-016 Lat (N) 71° 27.334 Lon (W) 151° 49.284 CTD Operator SZ/KS/MD
71 28.174 151 46.649

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137
313	chl	37	1	✓													✓		1								
314	chl		2	✓															2								
315			3	✓															3								
316			4	✓															4								
317			5	✓															5								
318			6	✓															6								
319		28	7	✓															7								
320			8	✓															8								
321			9	✓															9								
322			10	✓															10								
323			11	✓															11								
324			12	✓															12								
325		24	13																13								
326			14																14								
327			15																15								
328			16																16								
329			17																17								
330			18																18								
331			19																19								
332			20																20								
333			21																21								
334			22																22								
335			23																23								
336			24																24								

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.
Comments:

wait > 30sec for bottle flushing then trip
Raised + lowered near site to adjust target depth + flush bottles.

10 ← 24
27 →
36 - 40

21

Labels
per depth

30

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Cast # 15 UTC Date (ddmmmyyyy) 25 | 07 | 2008
 Station BL-5 BL-2 UTC Time 17:01
 CTD File 200830-015 Lat (N) 71° 23.738'

Ice Coverage /10

Water Depth(below hull) 149. m

Sound Speed _____

CTD Operator _____

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	1-129	CS-137
301	Bottom		1	✓✓	✓	7417	✓	422	5.4			✓							1	✓	✓✓	✓✓	✓	✓	✓✓		
302		128	2	✓✓				302	5.5			✓		✓✓	✓✓	✓		✓	2		③	✓					
303	32.6	165	3	✓✓				28	5.5			○							3								
304		100	4	✓✓				19	5.4			✓						✓	4								
305		75	5	✓✓				24	5.5			✓							5								
306	32.2	48	6	✓✓				26	5.4			✓		✓✓	✓✓	✓	✓	✓	6								
307		33	7	✓✓				411	5.3					✓✓	✓✓	✓	✓	✓	7								
308	31.3	21	8	✓✓				414	5.2			✓							8				✓✓	✓✓			
309		20	9	✓✓				22	4.9			✓		✓✓	✓✓	✓	✓	✓	9		③						
310	tmax	17	10	✓✓			③	27, 20, 18	4.5			✓							10								
311	tmin	13	11	✓✓				413	4.1			✓							11			✓					
312		5	12	✓✓			✓	21	4.0			✓		✓	✓✓	✓	✓	✓	12	✓	✓✓	✓✓	✓	✓	✓✓		
			13																13								
			14																14								
			15																15								
			16																16								
			17																17								
			18																18								
			19																19								
			20																20								
			21																21								
			22																22								
			23																23								
			24																24								

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments:

③

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Cast # 014

UTC Date (ddmmmyyyy) 25 07 | 2008

Ice Coverage 0 /10

Water Depth(below hull) 1007 m

Station B2-4

UTC Time 13:56

In Air pressure (before/after) -0.82 -0.85

Sound Speed 1450

CTD File 200830-14

Lat (N) 71 30.072

Lon (W) 151 39.451

CTD Operator EE/MW/M

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137
277	Bottom		1	✓✓			✓	407	4.1			✓							1	✓	W	W					
278		900	2	✓✓				420	4.1									✓	2								
279		800	3	✓✓	✓✓	9047 9837	②	311,421	4.0			✓		W	W	W			3	✓							
280		700	4	✓✓				316	3.9										4		(3)						
281		600	5	✓✓				302	3.8										5								
282		500	6	✓✓				424	3.7			✓		W	W	W			6	✓					✓		
283		450	7	✓✓				306	3.6										7								
284		400	8	✓✓				9	3.5										8								
285	Tmax	295	9	✓✓	✓	1224		8	3.4			✓		W	W	W			9	✓			✓	✓			
286	34.75	258	10	✓✓				310	3.6										10	✓			✓	✓			
287	34.7	240	11	✓✓				402	3.7										11								
288	34.6	217	12	✓✓			③	11,425,320	3.9										12		(3)				✓✓		
289	(34.4)	205	13	✓✓				428	4.1			✓✓		W	W	W		✓	13	✓		W		✓	✓		
290	34	179	14	✓✓				321	4.8			✓		W	W	W		✓	14				✓	✓			
291	33.8	170	15	✓✓				325	5.0			✓							15								
292	33.4	142	16	✓✓				328	5.1			✓						✓	16								
293	33.1	122	17	✓✓	✓	9114		327	5.1			✓		W	W	W		✓	17								
294		125	18	✓✓				14	5.0			✓		W	W	W			18								
295	32.6	85	19	✓✓				17	4.9			✓					✓	✓	19								
296	32.3	64	20	✓✓	✓	9024		405	4.7			W					✓		20								
297	Chl max	43	21	✓✓				401	4.4					W	W	W	✓		21								
298	Tmax	30	22	✓✓			②	315,412	4.5			W		W	W	W	✓		22								
299	Tmin	20	23	✓✓				1	3.6			W		W	W	W			23		(3)						
300		5	24	✓✓			✓	127	3.0			W		W	W	W	✓	✓	24	✓	W	W	✓	✓	✓	✓	

Bottle integrity: First test lower petcock then test top valve. Check means pass; 'x' means failed.

Comments:

Chl max 36

>130 (trapped)

Surface Zodiac

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Cast # SZ1-Sta A UTC Date (ddmmmyyyy) 24/07 | 2008

Ice Coverage /10

Water Depth(below hull) m

Station ~~Sta A~~ UTC Time

In Air pressure (before/after) /

Sound Speed

CTD File 200830- Lat (N)

Lon (W)

CTD Operator

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown or (IOS))	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137
9001	0 m	2m	1	✓✓								✓							1	✓	✓	✓	✓	✓			
9002	5 m	5m	2	✓✓								✓							2	✓	✓	✓	✓	✓			
9003	10m	10m	3	✓✓								✓							3	✓	✓	✓	✓	✓			
			4																4								
			5																5								
			6																6								
			7																7								
			8																8								
			9																9								
			10																10								
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			24																24								

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments:

Rosette Log for IOS Cruise ID 2008-30

Ship: *CCGS Louis S St-Laurent*

Cast # 013

UTC Date (ddmmmyyyy) 25 | 07 | 2008

Ice Coverage 0/10

Water Depth(below hull) 2980 m

Station BL8

UTC Time 07:09

In Air pressure (before/after) -0.761-0.82

Sound Speed 1450

CTD File 200830-013

Lat (N) 71 57.886

Lon (W) 150 13.595

CTD Operator BT/MR/WB

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown) IOS	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137
253	Bottom		1	VV			V	319	4.4			(V)							1		VV	V					
254		2500	2	VV	V	7504	VV	128	4.2									V	2	V	(3)	VV	V	V			
255		2000	3	VV				15											3								
256		1500	4	VV	V	9054		43	4.7										4								
257		1000	5	VV				312	3.7					(V)	(V)	(V)			5								
258		800	6	VV	V	9066		414	3.4					(V)	(V)	(V)			6								
259		600	7	VV				408	3.2					(V)	(V)	(V)			7								
260		500	8	VV	V	7166		10	3.1					(V)	(V)	(V)			8						16		
261		450	9	VV				416	3.0										9		(3)						
262	Tmax	390	10	VV	VV	8978, 7383		301	2.8					(V)	(V)	(V)			10	V			V	V			
263	34.75	327	11	VV				415	3.0									(V)	11	V			V	V			
264	34.7	295	12	VV			VV	419, 326	3.0										12			VV					
265	34.6	259	13	VV	V	9069		410	3.3					(V)	(V)	(V)		(V)	13						VV		
266	34.4	226	14	VV				324	4.2			(V)		(V)	(V)	(V)		(V)	14	V			V	V			
267	34	196	15	VV	V	7201		404	4.8			(V)		(V)	(V)	(V)		(V)	15								
268	33.8	183	16	VV				323	5.0			(V)		(V)	(V)	(V)		(V)	16								
269	33.4	154	17	VV				308	4.8			(V)		(V)	(V)	(V)		(V)	17								
270	33.1	140	18	VV	V	410		409	4.7			VV		(V)	(V)	(V)		(V)	18								
271	32.9	119	19	VV				314	5.5					(V)	(V)	(V)		(V)	19		(3)						
272	32.6	93	20	VV			VV	304, 322, 309	5.4					(V)	(V)	(V)		(V)	20			VV					
273	32.3	75	21	VV				403	5.3			(V)		(V)	(V)	(V)		(V)	21								
274	Chl-max	47	22	VV				125	5.3					(V)	(V)	(V)		(V)	22								
275		20	23	VV				119	4.6					(V)	(V)	(V)		(V)	23								
276		5	24	VV			V	318	4.2			(V)		(V)	(V)	(V)		(V)	24	V	V	V	V	V	V		

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments:

Shallow + Intrusion Study

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Cast # 012UTC Date (ddmmmyyy) 24 | 07 | 2008Ice Coverage 0 / 10Water Depth(below hull) 3400 mStation Sta-AUTC Time 21:13In Air pressure (before/after) -0.751Sound Speed 145CTD File 200830-012Lat (N) 72° 41.186Lon (W) 144° 41.839CTD Operator S.Z./M.D.

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K-Browner)	C-43 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT ③ x 3	SAL	O18	Ba	NH4	I-129	Cs-137
229 X		575	1 ✓	✓	✓		✓	7	3.3										1	✓	✓	✓				✓	
230 X		565	2 ✓	✓	✓	9837		305	3.2										2							✓	
231		555	3 ✓	✓	✓	9047		6	3.3										3							✓	
232		545	4 ✓	✓	✓	7637 7433		2	3.1										4	③						✓	
233		535	5 ✓	✓	✓	7475	✓	5, 4, 3	3.2										5							✓	
234		525	6 ✓	✓	✓	7357		17	3.1										6							✓	
235		515	7 ✓	✓	✓	410		426	3.0										7							✓	
236		505	8 ✓	✓	✓	8980		13	3.0										8							✓	
237		495	9 ✓	✓	✓	9114	✓	23, 12	2.5										9			✓	✓			✓	
238		485	10 ✓	✓	✓	7332		16	2.5										10							✓	
239		475	11 ✓	✓	✓	7222		418	2.5										11							✓	
240 X		465	12 ✓	✓	✓			25	3.0										12							✓	
241 X	34.7	402	13 ✓	✓	✓			101	2.8			✓							13							✓	
242	34.6	369	14 ✓	✓	✓	9024		102	2.8			✓						✓	14							✓	
243	34.4	340	15 ✓	✓	✓	7352		103	3.2			✓		✓	✓			✓	15							✓	
244	34	301	16 ✓	✓	✓	9061 7488		104	3.6			✓		✓	✓			✓	16							✓	
245	33.5	205	17 ✓	✓	✓	7223	✓	105, 106	3.5			✓		✓	✓				17	③						✓	
246	33.1	162	18 ✓	✓	✓	1224		107	3.8			✓		✓	✓			✓	18							✓	
247 X	32.9	151	19 ✓	✓	✓	7353		108	3.5			✓		✓	✓				19							✓	
248	32.6	131	20 X	✓	✓	7676		109	2.8			✓		✓	✓			✓	20							✓	
249	32.3	114	21 ✓	✓	✓	7629		110	3.1			✓		✓	✓				21							✓	
250	chlmax	53	22 ✓	✓	✓	7417		111	2.7			✓		✓	✓			✓	22	③						✓	
251 X		20	23 ✓	✓	✓							✓		✓	✓			✓	23			✓	✓			✓	
252		5	24 ✓	✓	✓	7552	✓	113	3.9			✓		✓	✓			✓	24			✓	✓			✓	

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments: CFC with *...lower priority

18-20
CTCintrusion
studytripped at
1mBig bottles
IOSadd?
Primary bottles
to take
last

Cesium Cast

1 (2)

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Cast # 011 UTC Date (ddmmmyyyy) 24 07 2008Ice Coverage 0 /10Water Depth(below hull) 3400 mStation Sta-A UTC Time 19:37In Air pressure (before/after) in / outSound Speed 1450CTD File 200830-011 Lat (N) 72° 41.273Lon (W) 144° 42.282CTD Operator K.S / M.D / S.2.

and 200830-012

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137
205		1000	✓1	✓✓															1			✓					✓
206		"	✓2	✓✓															2								✓
207		"	✓3	✓✓															3								✓
208		"	✓4	✓✓															4								✓
209		800	✓5	✓✓															5			✓					✓
210		"	✓6	✓✓															6								✓
211		"	✓7	✓✓															7								✓
212		"	✓8	✓✓															8								✓
213		600	✓9	✓✓															9			✓					✓
214		"	✓10	✓✓															10								✓
215		"	✓11																11								✓
216		"	✓12	✓✓															12								✓
217		400	✓13	✓✓															13			✓					✓
218		"	✓14	✓✓															14								✓
219		"	✓15	✓✓															15								✓
220		"	✓16	✓✓															16								✓
221		300	✓17	✓✓															17			✓					✓
222		"	✓18	✓✓															18								✓
223		"	✓19	✓✓															19								✓
224		"	✓20	✓✓															20								✓
225		5	✓21	✓✓															21			✓					✓
226		"	✓22	✓✓															22								✓
227		"	✓23	✓✓															23								✓
228		"	✓24	✓✓															24								✓

* Test temperature sensor

- small bottom plate.

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments:

Bottle closing: Stop 30 sec, then trip the set of 4 Niskins.

Deep + Sediment trap water



Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Cast # 010

UTC Date (ddmmmyyyy) 24 07 2008

Ice Coverage 0 /10

Water Depth(below hull) 3410 m

Station Sta A

UTC Time 14:44

In Air pressure (before/after) -0.791 -87

Sound Speed 1450

CTD File 200830-10

Lat (N) 72 41.25

Lon (W) 144 41.432

CTD Operator EF / MIC / WJ

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137
184	Bottom		1	✓	✓	7222	✓	422	4.4			✓							1		✓						
185		3300	2	✓	✓	7676	✓	303, 28	4.4			✓							2		✓						
186		3000	3	✓	✓	9066	✓	19	4.4			✓							3		✓					✓	
187		2500	4	✓	✓	1224	✓	24	4.2			✓							4		✓					✓	
188		2000	5	✓	✓	9069 7504	✓	26	4.2			✓							5		✓					✓	
189		2000	6	✓	✓														6								
190		2000	7	✓	✓														7								
191		2000	8	✓	✓														8								
192	For	2000	9	✓	✓	For David Gr. Hith													9								
193		2000	10	✓	✓														10								
194		2000	11	✓	✓														11								
195		2000	12	✓	✓														12								
196		2000	13	✓	✓														13								
197		1500	14	✓	✓	7629	✓	411	4.0			✓		✓	✓				14		✓					✓	
198		1000	15	✓	✓	9054	✓	417	3.8						✓	✓			15		✓					✓	
199		800	16	✓	✓	7166	✓	22	3.5						✓	✓			16		✓					✓	
200		600	17	✓	✓	7353	✓	27	3.4										17		✓					✓	
201		500	18	✓	✓	7201	✓	20	3.4						✓	✓			18	✓	✓					✓	
202		450	19	✓	✓	8978	✓	18 413	3.4										19		✓					✓	
203	max	450	20	✓	✓		✓												20	✓	✓					✓	
204	34.75	422	21	✓	✓	7383 7417	✓	21	3.4			✓							21		✓					✓	
			22																22								
			23																23								
			24																24								

pair I
and CFC

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments:

stop at 2000 m at 16:51, wait for mooring operation

14

74

Rosette Log for IOS Cruise ID 2008-30

Cast #009

Station CB28aa

CTD File 200830-009

UTC Date (ddmmyyyy) 23 | 07 | 2008

UTC Time 1:08

Lat (N) 69° 59.980

Ice Coverage 0 / 10

In Air pressure (before/after) -0.2 / -0.8

Lon (W) 140° 0.077

Water Depth(below hull) 45 m

Sound Speed 1450

CTD Operator K.S.

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	ALK	NUT	SAL	O18	Ba	NH4	L-129	Cs-137	Comments
180	Bot		1	✓✓			✓	425	5.3					✓✓	✓✓	✓		✓	✓	✓✓	✓	✓	✓	✓✓			
181		20	2																								
182		18	3	✓✓			✓✓	321/325	5.3					✓✓	✓✓	✓	✓	✓	✓	✓✓	✓	✓	✓	✓✓			
183		5	4	✓✓			✓	328	4.6					✓✓	✓✓	✓	✓	✓	✓	✓✓	✓	✓	✓	✓✓			
			5																								
			6																								
			7																								
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Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.
Comments:

Rosette Log for IOS Cruise ID 2008-30

Cast #008

Station MR-1

CTD File 200830-008

UTC Date (ddmmmyyyy) 23 | 007 | 2008

UTC Time 22.42

Lat (N) 70° 13.777' N

Ice Coverage 0 / 10

In Air pressure (before/after) -0.8 / -0.8

Lon (W) 140° 0.128' W

Water Depth(below hull) 230 m

Sound Speed 1450 m/s

CTD Operator K.S

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	✓ CFC Syringe #	Oxygen	✓ Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K-Brown or IOS)	C-13 (K-Brown)	CDOM ✓	DOC ✓	CARBO ✓	Chl-a ✓	BAC ✓	ALK ✓	NUT ✓	SAL ✓	O18 ✓	Ba ✓	NH4 ✓	I-129	Cs-137	Comments
168	Bot		✓1	✓✓	✓✓	9837 / 7637	✓	407	4.0					✓✓	✓✓	✓		✓	✓✓	✓	✓	✓	✓✓				
169		200	✓2	✓✓				420	4.9																		
170		200	✓3	✓✓				311	4.9									✓	✓	✓✓	✓	✓	✓	✓✓			
171	33.1	145	✓4	✓✓	✓	9047		421	5.3					✓✓	✓✓	✓		✓	✓	(3)	✓✓		✓	✓✓			
172	32.9	181	✓5	✓✓				316	5.3					✓✓	✓✓	✓		✓									Sticky Stop
173	32.6	89	✓6	✓✓				302	5.3					✓✓	✓✓	✓		✓	✓								
174	churn	80	✓7	✓✓			✓	424	5.2					✓✓	✓✓	✓	✓✓	✓									
175	32.3	75	✓8	✓✓				306	4.9					✓✓	✓✓	✓	✓✓	✓									
176		50	✓9	✓✓				9	4.7					✓✓	✓✓	✓		✓									
177	churn	35.92	✓10	✓✓			✓✓	8, 310, 402	4.5					✓✓	✓✓	✓	✓	✓									
178		20	✓11	✓✓				11	4.6					✓✓	✓✓	✓	✓	✓									
179		5	✓12	✓x	✓	7433	✓	428	1.4					✓✓	✓✓	✓	✓	✓	✓	✓✓	✓	✓	✓	✓✓			leak on botto
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Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.
Comments:

change
tips from
7 to 10

Have not
changed
label file!

Rosette Log for IOS Cruise ID 2008-30

Cast # 007

UTC Date (ddmmmyyyy) 23 July 2008

Ice Coverage 0/10

Water Depth(below hull) 780 m

Station MK-3

UTC Time 19:08

In Air pressure (before/after) -0.181 -0.26

Sound Speed 1450 m/s

CTD File 200830-007

Lat (N) 76° 34.42

Lon (W) 140° 0.139

CTD Operator KS / SZ

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIS (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137	Comments
146	Bot		1	✓	✓	not done	✓	319	3.8					✓	✓	✓				✓	✓	✓					
147		700	2	✓																							no fire
148		700	3	✓	✓		✓	128	3.7											✓	✓						
149		600	4	✓	✓	7552		15	3.6																		
150		500	5	✓	✓	9024		427	3.3					✓	✓	✓		✓						✓			
151		400	6	✓	✓	not done		423	3.2																		
152	4max	363	7	✓	✓	7332 not done		312	3.1					✓	✓	✓			✓								
153	34.75	302	8	✓	✓	7352		414	2.6												✓	✓					
154	34.7	274	9	✓	✓			408	3.3											③							
155	34.6	242	10	✓	✓			10	3.4									✓						✓			
156	34.4	206	11	✓	✓			416	3.8					✓	✓	✓								✓			
157	34	167	12	✓	✓	not done		301	4.4					✓	✓	✓		✓			✓	✓		✓			
158	33.7	151	13	✓	✓			307	4.6												✓	✓		✓			
159	33.4	135	14	✓	✓		✓	415 419 313	4.8															✓			
160	33.1	123	15	✓	✓	9061 7488		326	4.2					✓	✓	✓		✓						✓			
161	32.9	113	16	✓	✓			410	5.2					✓	✓	✓			✓	③		✓	✓				
162	32.6	97	17	✓	✓			324	5.2																		
163	32.3	83	18	✓	✓			404	5.2					✓	✓	✓	✓	✓	✓			✓	✓				
164		50	19	✓	✓			323	4.9																		
165	chd max	25	20	✓	✓			308	3.4					✓	✓	✓	✓	✓									OUT OF WATER
166		20	21	✓	✓			409	3.3					✓	✓	✓	✓	✓									
167		5	22	✓	✓	NOT DONE	✓	309	2.7					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
			23																								
			24																								

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments:

stucky spigot

DOC (DOU) 1000, 800, 500 Tmax 34.4 34 33.1 32.9 32.3
Chl max 20.5

Rosette Log for IOS Cruise ID 2008-30

Cast # 006 UTC Date (ddmmmyyyy) 23 | 07 | 2008 Ice Coverage 0.10 Water Depth(below hull) 1484 m
Station MK4 UTC Time 15:39 In Air pressure (before/after) -0.96 / -0.56 Sound Speed 1450
CTD File 200830-006 Lat (N) 70 48.728 Lon (W) 140 0.883 CTD Operator EF/SZ

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC (WHOI)	DOC (WHOI)	DIC (K. Brown or IOS)	C-13 (K. Brown)	CDOM	DOC	CARBO	Chl-a	BAC	ALK	NUT	SAL	O18	Ba	NH4	I-129	CS-137	Comments
122	Bottom		1	✓✓	✓✓	1224 9066	✓	422	4.1											✓✓	✓✓						
123		1200	2	✓																							Mis fire
124		1000	3	✓✓				28	4.0					✓✓	✓✓	✓		✓				✓	✓				
125		800	4	✓✓	✓	9069		19	3.6					✓✓	✓✓	✓											
126		700	5	✓✓	✓	7504		24	3.6											③							
127		600	6	✓✓				26	3.4																		
128		500	7	✓✓	✓	7629		41	3.2					✓✓	✓✓	✓								⑫			
129		450	8	✓✓	✓	9054		417	3.2																		
130	Tmax	422	9	✓✓	✓	7222		22	3.2					✓✓	✓✓	✓						✓	✓				
131		360	10	✓✓	✓	7676		23	3.2																		
132	34.75	311	11	✓✓	✓	7166		20	3.2																		
133	34.7	290	12	✓✓	✓	7383	✓	18-413 1	3.2																		
134	34.6	261	13	✓✓	✓	8978		7	3.5									✓				✓	✓	✓			
135	34.4	226	14	✓✓	✓	7357		17	3.7					✓✓	✓✓	✓											
136	34	189	15	✓✓				426	4.5					✓✓	✓✓	✓											
137	33.7	173	16	✓✓	✓	7223		13	4.4													✓✓	✓✓				
138	23.4	161	17	✓✓	✓			23	5.2					✓✓	✓✓	✓					✓✓						
139	33.1	145	18	✓✓	✓	7475		21	5.1					✓✓	✓✓	✓				③							
140	32.9	133	19	✓✓				305	5.3					✓✓	✓✓	✓						✓	✓				
141	32.6	112	20	✓✓	✓	7417		6	5.0								✓	✓									
142	32.3	92	21	✓✓				5	5.1					✓✓	✓✓	✓						✓	✓				
143	Chl max	40	22	✓✓	✓	7201		4	5.1					✓✓	✓✓	✓	✓	✓									
144	26		23	✓✓				3	3.4					✓✓	✓✓	✓	✓	✓		③							
145	5		24	✓✓	✓	7353	✓	2	2.2					✓✓	✓✓	✓	✓	✓		✓✓	✓✓	✓	✓				

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.

Comments: 12 NH4 at 300m
→ Tripped at wrong depth, need to look at processed file

below