

Rosette Log for IOS Cruise ID 2010-07

Ship: *CCGS Louis S St-Laurent*

Cast # 72 UTC Date (ddmmmyyyy) 14 Oct 2010

Ice Coverage 10 / 10

Water Depth(from surface) 204 m

Station CB-54 UTC Time 0103

In Air pressure (before/after) -10.15

Sound Speed used by Knudsen 1445

CTD File 201007-0072 Lat (N) 73 19.254

Lon (W) 127 47.548

Weather/Sea State -12C, 9.7 knt

CTD Operator SZ/PP

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tnp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1550	Bot	193	✓ 1	00				1		x	x		x		xx	x	x	x	xx			1	
1551		175	✓ 2	00				2					x		xx	xx	x	x	xx			2	
1552		150	✓ 3	00				3					x		xxxx	x	x	x	xx			3	
1553		125	✓ 4	01				4					x		xx	x	xx	xx	xx			4	drip bottom spigot
1554		100	✓ 5	00				5					x		xx	x	x	x	xx			5	
1555		75	✓ 6	00				6					x		xxxx	x	x	x	xx			6	
1556		50	✓ 7	00				7					x	x	xx	x	x	x	xx			7	
1557		30	✓ 8	00				8					x	x	xx	xx	x	x	xx			8	
1558		15	✓ 9	01				9					x	x	xx	x	x	x	xx			9	slowdrip spigot
1559		5	10	00				10		x	x		x	x	xx	x	x	x	xx			10	
			11					11														11	
			12					12														12	
			13					13														13	
			14					14														14	
			15					15														15	
			16					16														16	
			17					17														17	
			18					18														18	
			19					19														19	
			20					20														20	
			21					21														21	
			22					22														22	
			23					23														23	
			24					24														24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2010-07

Ship: *CCGS Louis S St-Laurent*

Cast # 71 UTC Date (ddmmmyyyy) 13 Oct 2010

Ice Coverage 10/10

Water Depth(from surface) 401 m

Station CB-53 UTC Time 1918

In Air pressure (before/after) 7.1, 0.2

Sound Speed used by Knudsen 1445

CTD File 201007-0071 Lat (N) 73 23.579 Lon (W) 128 32.303

Weather/Sea State -14.1, 20 kt

CTD Operator SZ

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1526	Bot	395	✓ 1	00			1244.7/1291.4/1347.3	1	xxx				x		xx	x			xx			1	
1527	Tmax	350	✓ 2	00			1364.2	2	x				x		xx	x			xx			2	
1528	34.78	320	✓ 3	00			1276.1	3	x				x		xx	xx			xx			3	
1529	34.76	306	✓ 4	00			1286 0.0	4	x				x		xx	x	xx	xx	xx			4	
1530	34.7	270	✓ 5	00			705 0.0	5	x				x		xx	x	x	x	xx			5	
1531	34.6	237	✓ 6	00			1343 -1.1	6	x				x		xxxx	x	x	x	xx			6	
1532	34.5	220	✓ 7	00			1391 -1.3/1366 -1.2	7	xx				x		xx	x	x	x	xx			7	#7 swapped out w/ #24 before cast
1533	34.4	206	✓ 8	01				8	x				x		xx	x	x	x	xx			8	Misfire caught in cables
1534	34.1	175	✓ 9	00			1484 -1.3	9	x				x		xx	x	x	x	xx			9	
1535	33.6	151	✓ 10	00			1422 -1.7	10	x				x		xx	x	x	x	xx			10	
1536	33.1	129	✓ 11	00			1299 -1.9	11	x		x		x		xx	xx	x	x	xx			11	
1537	32.9	120	✓ 12	00			1418 -1.9/1445 -1.8	12	xx				x		xx	x	x	x	xx			12	
1538	32.6	106	✓ 13	00			1293 -1.8	13	x				x		xxxx	x	x	x	xx			13	
1539	32.3	92	✓ 14	00			1363 -1.9	14	x				x		xx	x	x	x	xx			14	
1540		70	✓ 15	00			1482 -1.7	15	x				x		xx	x	x	x	xx			15	
1541	Chl max	50	✓ 16	00			1216 -1.5	16	x			xx	x		xx	x	x	x	xx			16	
1542	30		✓ 17	00			1329 0.0	17	x			xx	x	x	xx	xx	x	x	xx			17	
1543	15		✓ 18	00			1204 -1.9	18	x			xx	x	x	xx	x	x	x	xx			18	
1544	5		✓ 19	00			1443 -1.7	19	x	x	x		x	x	xxxx	x	x	x	xx			19	
			20					20														20	
			21					21														21	
			22					22														22	
			23					23														23	
			24					24														24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2010-07

Ship: *CCGS Louis S St-Laurent*

Cast # 70 UTC Date (ddmmmyyyy) 13/10/2010

Ice Coverage 10/10

Water Depth(from surface) 1000 m

Station CB-52 UTC Time 1412

In Air pressure (before/after) -0.07, 0.30

Sound Speed used by Knudsen 1455

CTD File 201007-0670 Lat (N) 73 29.67

Lon (W) 129 29.51

Weather/Sea State -19C, 10kts

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FWALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1502	Bot 11	990	✓1	00	9061	x	830/831/832 0.9/0.5/0.5	1	xxx				x		xx	x						1	
1503		900	✓2	00	9054	x	833 0.2	2	x				x		xx	x						2	
1504		800	✓3	00	9024	x	834 0.3	3	x				x		xx	x					x	3	
1505		700	✓4	00	0280	x	835 10.5	4	x				x		xx	x						4	
1506		600	✓5	00	8968	x	858 10.9	5	x				x		xx	xx					x	5	836 replaced by redraw
1507		500	✓6	00	7223/9837	xx	837 10.7 839 1.0	6	xx				x		xx	x					x	6	
1508		450	✓7	10	8995	x	838 10.7	7	xx				x		xx	x						7	leaking spigot - fast
1509	Tmax	400	✓8	00	7552	x	840 10.7	8	x				x		xx	x					x	8	
1510	Tmax	392/400	✓9	00	7629	x	841 10.7	9	x				x		xx	x						9	
1511		350	✓10	00	0321	x	842 10.7	10	x				x		xx	x	x	x	xx		x	10	
1512		300	✓11	01	7332 9066	xx	843 10.7 844 10.9	11	xx				x		xx	xx	x	x	xx		x	11	drip on lower O-ring
1513		250	✓12	00	0314	x	1452 10.3	12	x				x		xx	x	x	x	xx		x	12	
1514		225	✓13	00	0257	x	846 10.0	13	x				x		xxxx	x	x	x	xx			13	
1515		200	✓14	00	0283	x	847 1-0.6	14	x				x		xx	x	xx	xx	xx		x	14	
1516		175	✓15	00			848 1-0.5	15	x				x		xx	x	x	x	xx			15	
1517	33.1	160	✓16	00	0326/410	xx	849 1-0.5	16	x		x		x		xx	x	x	x	xx			16	
1518	33.1	450 ¹⁵	✓17	00	8953	x	850 1-0.6	17	x		x		x		xx	xx	x	x	xx		x	17	
1519		125	✓18	00			851 -0.9	18	x				x		xx	x	x	x	xx			18	
1520		100	✓19	00	7222	x	852 -0.9	19	x				x		xxxx	x	x	x	xx		x	19	
1521		75	✓20	00	7201	x	853 -0.9	20	x				x		xx	x	x	x	xx			20	lower cap leaking also
1522		50	✓21	10	1224	x	854 -0.8	21	x			xx	x		xx	x	x	x	xx		x	21	much more than a dribble - full on leak
1523	Chl max	30	✓22	00	8980	x	855 -0.9	22	x			xx	x	x	xx	x	x	x	xx			22	Not really a Chl Max to pick
1524		15	✓23	00			856 -1.0	23	x			xx	x	x	xxxx	x	x	x	xx			23	
1525		5	✓24	00	7475	x	857 -1.1	24	x	x	x		x	x	xx	x	x	x	xx		x	24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments: Oxygen: draw-Miranda
pickler-Mike "Pickles" Dempsey

↑ more CDOM ✓

↑ I129 (labels OK on bottles, computer file needs updating)

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 69

UTC Date (ddmmmyyyy) 13/10/2010

Ice Coverage /10

Water Depth(from surface) 2511 m

Station CB-51

UTC Time 0703

In Air pressure (before/after) 010/0.16

Sound Speed used by Knudsen 1470

CTD File 201007-0069

Lat (N) 73 30.80

Lon (W) 130 56.63

Weather/Sea State -165C 15kts

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1478	Bot -200	2300 ✓	1	00			800/801/802 829 -0.1/-0.3/-0.4	1	xxx				x		xx	xx						1	802 bubbles from dispenser -- redraw in 829
1479		2000 ✓	2	00			803 -0.8	2	x				x		xx	x						2	
1480		1500 ✓	3	00			804 -0.8	3	x				x		xx	x						3	
1481		1200 ✓	4	00			805 -0.7	4	x				x		xx	x						4	
1482		1000 ✓	5	00			806 -0.5	5	x				x		xxxx	x						5	
1483		800 ✓	6	00			807 -0.4	6	x				x		xx	x						6	
1484		600 ✓	7	10			808 -0.3	7	x				x		xx	x						7	Medium-spigot dribble
1485		500 ✓	8	00			809 0.0	8	x				x		xxxx	x						8	
1486	Tmax	400 ✓	9	00			810 -0.3	9	x				x		xx	x						9	-12 NH4 standards on bottle 9
1487	34.78	350 ✓	10	00			811 0.1	10	x				x		xx	x	x	x	xx			10	
1488	34.7	297 ✓	11	11				11	x				x		xx	xx	x	x	xx			11	bottle did not fire
1489	34.6	270 ✓	12	00			813 -0.3	12	x				x		xx	x	x	x	xx			12	
1490	34.4	231 ✓	13	00			814 -0.6	13	x				x		xx	x	xx	xx	xx			13	
1491	34.1	200 ✓	14	00			815/816 -0.8/-0.7	14	xx				x		xx	x	x	x	xx			14	
1492	33.6	173 ✓	15	00			817 -1.1	15	x				x		xxxx	x	x	x	xx			15	
1493	33.1	158 ✓	16	00			818 -1.1	16	x		x		x		xx	x	x	x	xx			16	two tries to fire (mouse not on button?)
1494	32.9	149 ✓	17	00			819 -1.1	17	x				x		xx	x	x	x	xx			17	
1495	32.6	131 ✓	18	00			820 -1.0	18	x				x		xx	x	x	x	xx			18	
1496	32.3	114 ✓	19	00			821/822 -1.1/-1.0	19	xx				x		xx	x	x	x	xx			19	two tries to fire (mouse not on button?)
1497	31.8	87 ✓	20	00			823 -1.1	20	x				x		xx	x	x	x	xx			20	
1498	Chl max	64 ✓	21	00			828 -0.9	21	x			xx	x		xx	x	x	x	xx			21	
1499		50 ✓	22	00			825 -1.0	22	x			xx	x	x	xx	x	x	x	xx			22	
1500		25 ✓	23	00			826 -0.8	23	x	x	x	xx	x	x	xx	x	x	x	xx			23	
1501		5	24					24	x	x	x	xx	x	x	xx	x	x	x	xx			24	missed firing it

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments: Oxygen: draw - Jane
pottle - Mike

802 needs to be cleaned - rinsed w dlH2O by Mike

↑ ↑ moved to 23

Rosette Log for IOS Cruise ID 2010-07

Ship: *CCGS Louis S St-Laurent*

Cast # 68 UTC Date (ddmmmyyyy) 12 Oct 2010

Ice Coverage 10/10

Water Depth(from surface) 2882 m

Station CB-50 UTC Time 2009

In Air pressure (before/after) 0.8 / 0.14

Sound Speed used by Knudsen 1470

CTD File 201007-0068 Lat (N) 73 31.141

Lon (W) 134 11.485

Weather/Sea State -12.3C, 6.7 km/h

CTD Operator SZ/ZS

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1454		✓ 2679	1	00			1244 .7/1201 .4/1347 .2	1	xxx				x		xx	x						1	
1455		✓ 2500	2	00	7417 / 1433	x	1364 0.0	2	x				x		xx	x						2	
1456		✓ 2000	3	00	7631	x	1276 -.1	3	x				x		xxxx	x						3	
1457		✓ 1500	4	00		x	1286 -.1	4	x				x		xx	x						4	
1458		✓ 1000	5	00	7166	x	705 .1	5	x				x		xx	xx						5	
1459		✓ 800	6	00	7504	x	1343 .3	6	x				x		xx	x						6	
1460		✓ 600	7	11		x	1381 .5	7	x				x		xx	x						7	Didn't close properly
1461		✓ 500	8	00	7676	x	1366 .7 1361 .9	8	xx				x		xx	x						8	
1462	Tmax	✓ 418	9	00	9069/7352	xx	1484 .6	9	x				x		xx	x						9	
1463		✓ 400	10	00		x	1422 .6	10	x				x		xx	x						10	
1464		✓ 350	11	00		x	1299 .8	11	x				x		xx	x						11	
1465		✓ 300	12	00	9114	x	1418 .6	12	x				x	x	xxxx	x	x	x	xx			12	
1466		✓ 275	13	00	8978	x	1445 .5	13	x				x	x	xx	x	x	x	xx			13	
1467		✓ 250	14	00	7353	x	1293 .1	14	x				x	x	xx	xx	x	x	xx			14	
1468		✓ 225	15	00	7488	x	1363 -.0.2	15	x				x	x	xx	x	x	x	xx			15	
1469		✓ 175	16	00			1482 -.0.7	16	x				x	x	xx	x	x	x	xx			16	
1470	33.1	✓ 170	17	00	9906/0336	xx	1216 -.0.7	17	x		x		x	x	xx	x	x	x	xx			17	
1471		✓ 150	18	00		x	1328 -.0.7	18	x				x	x	xx	xx	x	x	xx			18	
1472		✓ 125	19	00			1204 -.0.7	19	x				x	x	xx	x	x	x	xx			19	
1473		✓ 100	20	00	7629	x	7443 -.0.4	20	x				x	x	xxxx	x	x	x	xx			20	
1474	Chl max	✓ 72	21	00		x	1223 -.0.2	21	x			xx	x	x	xx	x	x	x	xx			21	
1475		✓ 50	22	00	0322	x	1346 0.1	22	x			xx	x	x	xx	x	xx	xx	xx			22	
1476		✓ 25	23				1499 .0.1	23	x			xx	x	x	xx	x	x	x	xx			23	
1477		✓ 5	24	00	7322	x	7225 -.0.6, 1309 -.7	24	xx	x	x		x	x	xx	x	x	x	xx			24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

↑
reduced due to
#s avail

Oxy sampling order: 1-10, 24, 11-23

0730

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 67

UTC Date (ddmmmyyyy) 12 / 10 / 2010

Ice Coverage 10 / 10

Water Depth(from surface) 3267 m

Station CB-40

UTC Time 0907

In Air pressure (before/after) 0.03 / 0.15

Sound Speed used by Knudsen 1478

CTD File 201007-0067

Lat (N) 74 30 19

Lon (W) 135 23 92

Weather/Sea State -8C, 15kts

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1430		3000	✓ 1	10	0321	x	800/-0.3 801/-0.3 802/-0.3	1	xxx				x		xx	x						1	fast spigot leak - top cap not sealed.
1431		2500	✓ 2	00	8980	x	803 / 0.0	2	x				x		xxxx	x						2	
1432		2000	✓ 3	00	0257 9024	xx	804 / 0.0	3	x				x		xx	x						3	
1433		1500	✓ 4	00	0283	x	805 / 0.0	4	x				x		xx	xx						4	
1434		1000	✓ 5	00	0314	x	806 / 0.4	5	x				x		xx	x						5	
1435		800	✓ 6	00	410 9054	xx	807 / 0.5	6	x				x		xx	x						6	
1436		600	✓ 7	10	0280	x	808 / 0.7 809 / 1.0	7	xx				x		xxxx	x						7	fast spigot drip - top cap not sealed
1437		500	✓ 8	00	9066	x	810 / 1.3	8	x				x		xx	x						8	
1438	T max	414	✓ 9	00	7475	x	811 / 1.2	9	x				x		xx	x						9	
1439		400	✓ 10	00	7629 0326	xx	812 / 1.2	10	x				x		xx	x						10	
1440	34.78	379	✓ 11	00	1224	x	813 / 1.2	11	x				x		xx	xx						11	
1441	34.7	333	✓ 12	00	7201	x	814 / 1.2	12	x				x		xx	x	x	x				12	bottom O-ring drip (slow) (very)
1442	34.6	305	✓ 13	00	8968	x	815 / 1.0 816 / 1.1	13	xx				x		xxxx	x	x	x				13	
1443	34.4	264	✓ 14	00	7222	x	817 / 1.2	14	x				x		xx	x	x	x				14	
1444	34.1	222	✓ 15	00	9837 8995	xx	818 / 0.5	15	x				x		xx	x	x	x				15	
1445	33.6	200	✓ 16	00	9061	x	819 / 0.0	16	x				x		xx	x	x	x				16	
1446	33.1	181	✓ 17	00	7332	x	820 / 0.1	17	x		x		x		xx	x	xx	xx				17	
1447	32.9	170	✓ 18	00			821 / -0.6	18	x				x		xx	xx	x	x				18	
1448	32.6	142	✓ 19	00	7223	x	822 / 0.1	19	x				x		xx	x	x	x				19	
1449	32.3	115	✓ 20	00			823 / -1.0	20	x				x		xx	x	x	x				20	
1450	31.8	85	✓ 21	00	8953	x	828 / 1.0	21	x			xx	x		xx	x	x	x				21	
1451	Chl max	60	✓ 22	00	7488	x	825 / 1.2	22	x			xx	x	x	xx	x	x	x				22	
1452		20	✓ 23	00			826 / -0.7	23	x			xx	x	x	xx	x	x	x				23	
1453		5	✓ 24	00	7552	x	827 / 0.5	24	x	x	x		x	x	xx	x	x	x				24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

DO { KS Draw
KY MS Pickles

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # CB-21 UTC Date (ddmmmyyyy) 11/10/2010

Ice Coverage 10/10

Water Depth(from surface) 3527 m

Station 66 UTC Time 1333

In Air pressure (before/after) 0.11, 0.11

Sound Speed used by Knudsen 1478

CTD File 201007-0066 Lat (N) 74 00.55

Lon (W) 140 00.98

Weather/Sea State -16C, 6kts

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FWALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1406	Bot-200	3330	✓1	00	7629 7353	xX	854/-0.4 855/-0.3 856/-0.3	1	xxx				x		xx	x						1	2 Please collect Deep Ref
1407		3000	✓2	00	0326	x	857/-0.5	2	x				x		xx	x					x	2	3 water for Nuts. Carboxin R, Lib
1408		2500	✓3	00	1224	x	858/-0.5	3	x				x		xx	x					x	3	
1409		2000	✓4	00	7201	x	859/-0.4	4	x				x		xx	x					x	4	
1410		1500	✓5	00	8968 9114	xX	842/-0.2	5	x				x		xx	xx					x	5	
1411		1000	✓6	00	7166 9066	xx	835/0.2	6	x				x		xx	x					x	6	
1412		800	✓7	00	7433	x	844/0.4	7	x				x		xxxx	x					x	7	
1413		600	✓8	00	7475	x	846/0.7 836/0.8	8	xx				x		xx	x					x	8	
1414		500	✓9	00	0336	x	847/0.7	9	x				x		xx	x					x	9	
1415	T max	450	✓10	00	7504	x	834/1.0	10	x				x		xx	x						10	
1416		400	✓11	00	7676	x	843/0.9	11	x				x		xxxx	x					x	11	
1417		350	✓12	00	8978	x	839/0.7	12	x				x		xx	x	x	x			x	12	
1418		300	✓13	00	7352	x	851/0.5	13	x				x		xx	x	xx	xx			x	13	
1419		250	✓14	00	7417 7637	xx	852/0.0	14	x				x		xx	x	x	x			x	14	
1420	260	225	15	00	8995	x	853/-0.7	15	x				x		xx	x	x	x				15	
1421	33.1	196	✓16	00	9837	x	849/-0.7	16	x		x		x		xx	x	x	x			x	16	
1422		175	✓17	00			848/-0.5	17	x				x		xxxx	x	x	x				17	
1423		150	✓18	00	7222	x	850/-0.5 841/-0.5	18	xX				x		xx	x	x	x			x	18	
1424		125	✓19	00			840/-0.9	19	xx				x		xx	x	x	x				19	
1425		100	✓20	00	9069 7488	xx	1452/0.0	20	x				x		xx	xx	x	x			x	20	
1426	Chl Max	73	✓21	10	7223	x	838/0.3	21	x			xx	x		xx	x	x	x				21	strong leak
1427	Chl max	58	✓22	00	7332	x	831/0.5	22	x			xx	x	x	xx	x	x	x				22	
1428		20	✓23	00			832/-0.5	23	x			xx	x	x	xx	x	x	x				23	
1429		5	✓24	00	7552	x	833/-0.4	24	x	x	x		x	x	xx	xx	x	x			x	24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

extra CFC's for more duplicates. Label file needs updating (Bot 1+5)

Oxy dup moved from Bot 19 to Bot 18

Jane draw / Mike Mr Pickler

Rosette Log for IOS Cruise ID 2010-07

Ship: *CCGS Louis S St-Laurent*

Cast # CB-21 UTC Date (ddmmmyyyy) 11 / 10 / 2010

Ice Coverage 10 / 10

Water Depth(from surface) 3523 m

Station 65 UTC Time 1001

In Air pressure (before/after) 1

Sound Speed used by Knudsen 1478

CTD File 201007- 0065

Lat (N) 74 01.13

Lon (W) 139 59.94

Weather/Sea State -15C 6kts

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1382		300	✓ 1	00				1						x	xx	x	x	x				1	
1383		280	✓ 2	00				2						x	xx	x	x	x				2	
1384		260	✓ 3	00				3						x	xx	x	x	x				3	
1385		250	✓ 4	00				4						x	xx	x	x	x				4	
1386		240	✓ 5	00				5						x	xx	xx	x	x				5	
1387		230	✓ 6	00				6						x	xx	x	x	x				6	
1388		220	✓ 7	1				7						x	xxxx	x	x	x				7	very fast spigot run
1389		210	✓ 8	00				8						x	xx	x	x	x				8	
1390		200	✓ 9	00				9						x	xx	x	x	x				9	
1391		190	✓ 10	00				10						x	xx	x	x	x				10	
1392		180	✓ 11	00				11						x	xxxx	x	x	x				11	
1393		170	✓ 12	00				12						x	xx	x	xx	xx				12	
1394		160	✓ 13	00				13						x	xx	x	x	x				13	
1395		140	✓ 14	00				14						x	xx	x	x	x				14	
1396		120	✓ 15	00				15						x	xx	x	x	x				15	
1397		100	✓ 16	00				16				xx		x	xx	x	x	x				16	
1398		90	✓ 17	00				17				xx		x	xxxx	x	x	x				17	
1399		80	✓ 18	00				18				xx		x	xx	x	x	x				18	
1400		70	✓ 19	00				19				xx		x	xx	x	x	x				19	
1401		60	✓ 20	00				20				xx		x	xx	xx	x	x				20	
1402		50	✓ 21	10				21				xx		x	xx	x	x	x				21	spigot dribble
1403		40	✓ 22	00				22				xx		x	xx	x	x	x				22	
1404		20	✓ 23	00				23				xx		x	xx	x	x	x				23	
1405		10	✓ 24	00				24				xx		x	xx	xx	x	x				24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

080616

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # CB-21

UTC Date (ddmmmyyyy) 11 / 10 / 2010

Ice Coverage 10 / 10

Water Depth(from surface) 3526 m

Station 64

UTC Time 0805

In Air pressure (before/after) 002, 025

Sound Speed used by Knudsen 1478

CTD File 201007- 0064

Lat (N) 74 01.64

Lon (W) 139 59 03

Weather/Sea State -15C, 10kts

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FWALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1358		1000	✓ 1	00				1								x				x		1	
1359		1000	✓ 2	00				2								x				x		2	
1360		1000	✓ 3	00				3								x				x		3	
1361		1000	✓ 4	10				4								x				x		4	spigot drip
1362		800	✓ 5	00				5								x				x		5	
1363		800	✓ 6	00				6								x				x		6	
1364		800	✓ 7	00				7								x				x		7	
1365		800	✓ 8	00				8								x				x		8	
1366		600	✓ 9	00				9								x				x		9	
1367		600	✓ 10	00				10								x				x		10	
1368		600	✓ 11	00				11								x				x		11	
1369		600	✓ 12	00				12								x				x		12	
1370		400	✓ 13	00				13								x				x		13	
1371		400	✓ 14	00				14								x				x		14	
1372		400	✓ 15	00				15								x				x		15	
1373		400	✓ 16	00				16								x				x		16	
1374		300	✓ 17	00				17								x				x		17	
1375		300	✓ 18	00				18								x				x		18	
1376		300	✓ 19	00				19								x				x		19	
1377		300	✓ 20	00				20								x				x		20	
1378		5	✓ 21	01				21								x				x		21	lower O-ring drip, tip cap reset does not fix
1379		5	✓ 22	10				22								x				x		22	fast spigot drip - top cap + air valve end tight
1380		5	✓ 23	00				23								x				x		23	
1381		5	✓ 24	00				24								x				x		24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

2050
11000

Cast # 63 UTC Date (ddmmmyyyy) 10 | 10 | 2010

Ice Coverage 9⁺/10

Water Depth(from surface) 3779 m

Station CB-6 UTC Time 1928

In Air pressure (before/after) - , 0.09

Sound Speed used by Knudsen 1478

CTD File 201007-0063 Lat (N) 74 42.628

Lon (W) 146 37.307

Weather/Sea State -13.4°C, 4.2 k-t

CTD Operator JE/SZ

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp <i>Done 1538</i>	Niskin #	Oxygen ✓	DIC/ALK ✓	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1334	Bot-200	✓3550	1	10			854.3/855 0.0/856 -.1	1	xxx				x		xx	xx						1	*Be conservative! Slow drip stopcock
1335		✓3000	2	00			857 -.5	2	x				x		xx	x						2	
1336		✓2500	3	00			858 -.5	3	x				x		xx	x						3	
1337		✓2000	4	10			859 -.4	4	x				x		xx	x						4	Slow drip stopcock
1338		✓1500	5	00			849 -.3	5	x				x		xxxx	x						5	
1339		✓1000	6	00			848 0.0	6	x				x		xx	x						6	
1340		✓800	7	00			850 0.1	7	x				x		xx	x						7	
1341		✓600	8	00			851 0.5	8	x				x		xx	x						8	
1342		✓500	9	00			852 0.5	9	x				x		xx	x						9	
1343	T max	✓467	10	00			853 0.6/842 0.7	10	xx				x		xx	x						10	
1344	34.78	✓411	11	00			835 0.7	11	x				x		xx	x						11	
1345	34.7	✓360	12	00			844 0.5	12	x				x		xx	x	x	x				12	Slow drip bottom
1346	34.4	✓293	13	00			846 0.0	13	x				x		xxxx	x	x	x				13	
1347	34.1	✓260	14	00			836 -.9	14	x				x		xx	x	x	x				14	
1348	33.6	✓237	15	01			847 -.7	15	x				x		xx	x	x	x				15	Slow drip bottom
1349	33.1	✓206	16	00			837 -1.0	16	x		x		x		xx	x	x	x				16	
1350	32.9	✓187	17	00			843 -1.0/839 -.9	17	xx				x		xx	x	x	x				17	
1351	32.6	✓155	18	00			840 -.8	18	x				x		xx	xx	x	x				18	
1352	32.3	✓126	19	00			841 -.7	19	x				x		xx	x	x	x				19	
1353	31.8	✓97	20	00			830 -.3	20	x				x		xxxx	x	x	x				20	
1354	75	✓70	21	00			838 .2	21	x			xx	x		xx	x	x	x				21	} Salts not taken so that we could take #2 Ba samples
1355	Chl max	✓44	22	00			831 .3	22	x			xx	x	x	xx	x	x	x				22	
1356		✓20	23	00			832 -.3	23	x			xx	x	x	xx	x	x	x				23	
1357		5	24	00			833 -1.0	24	x	x	x		x	x	xx	xx	xx	xx				24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments: * Be conservative w/ bottles 1:2 so that we can take deep water standards.
→ water was dumped prematurely; missed some 180' Ba.

Rosette Log for IOS Cruise ID 2010-07

Ship: *CCGS Louis S St-Laurent*

Cast # CB-19 UTC Date (ddmmmyyyy) 10 / 10 / 2010

Ice Coverage 10/10

Water Depth(from surface) 3697 m

Station 62 UTC Time 0947

In Air pressure (before/after) 0.0 / 0.07

Sound Speed used by Knudsen 1478

CTD File 201007-0062 Lat (N) 74 17.57

Lon (W) 143 15.04

Weather/Sea State -12C, 10kts

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1310	Bot-200	3500	✓1	00	7552	x	800/-0.3 801/-0.3 802/-0.2	1	xxx				x		xx	x						1	
1311		3000	✓2	00	7332	x	803/-0.3	2	x	x			x		xxxx	x						2	
1312		2500	✓3	00	0283	x	804/-0.2	3	x				x		xxx	xx						3	
1313		2000	✓4	10	9024	x	805/-0.1	4	x	x			x		xx	x						4	spigot dribble
1314		1500	✓5	00	9827	x	806/0.0	5	x				x		xx	x						5	
1315		1000	✓6	00	0314	x	807/-0.2	6	x	x			x		xx	x						6	
1316		800	✓7	00	280 7433	xx	808/0.5	7	x				x		xx	x						7	
1317		600	✓8	06	410	x	809/0.7 810/1.0	8	xx	x			x		xx	x						8	
1318		500	✓9	00	7629	x	811/0.8	9	x				x		xx	x						9	
1319	T max	470	✓10	00	8995	x	812/1.0	10	x	x			x		xx	xx						10	
1320	34.78	400	✓11	00	0326	x	813/1.0	11	x	x			x		xx	x						11	
1321	34.78	400	✓12	00	9054	x	814/0.8	12	x	x			x		xx	x	x	x				12	
1322	34.7	355	✓13	00	7353	x	815/0.8	13	x				x		xx	x	x	x				13	
1323	34.4	291	✓14	00	1224	x	816/0.2	14	x	x			x		xx	x	x	x				14	
1324	34.1	262	✓15	00	032.1 9066	xx	817/-0.1	15	x				x		xx	x	x	x				15	
1325	33.6	237	✓16	10	7201	x	818/-0.3	16	x	x			x		xxxx	x	x	x				16	very slow spigot drip
1326	33.1	216	✓17	00	8980 7637	xx	819/-0.3	17	x	x	x		x		xx	x	x	x				17	
1327	32.9	197	✓18	00	8968	x	820/-0.3	18	x				x		xx	x	xx	xx				18	
1328	32.6	166	✓19	00	0257	x	821/-0.3 822/-0.2	19	xx	x			x		xx	x	x	x				19	
1329	32.3	135	✓20	00	7222	x	823/-0.2	20	x				x		xx	x	x	x				20	
1330	31.8	94	✓21	00			828/-0.7	21	x	x		xx	x		xx	x	x	x				21	broke stopper on 824
1331	Chl max	44	✓22	00	7488	x	825/1.0	22	x			xx	x	x	xx	x	x	x				22	
1332		20	✓23	00			826/-0.7	23	x	x		xx	x	x	xxxx	x	x	x				23	
1333		5	✓24	00	7166	x	827/0.0	24	x	xx	x		x	x	xx	xx	x	x				24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

more DIC on 12 to 11 ✓ done

DO { KS draw
JE pickle

102730

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 61

UTC Date (ddmmmyyyy) 09/10/2010

Ice Coverage 8/10

Water Depth(from surface) 3628 m

Station CB-18

UTC Time 1226

In Air pressure (before/after) -0.09/0.09

Sound Speed used by Knudsen 1478

CTD File 201007-0061

Lat (N) 75 00 22

Lon (W) 140 00 52

Weather/Sea State -15C 10kts

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1286		2000	✓ 1 ✓	00	0321	x	800/-0.4 801/-0.3 802/-0.2	1	xxx			x		xx	x							1	
1287		1500	✓ 2 ✓	00	7417	x	803/-0.4	2	x	x*		x		xx	x							2	
1288		1200	✓ 3 ✓	00	7676	x	804/-0.2	3	x	x°		x		xx	x							3	
1289		1000	✓ 4 ✓	10	0283	x	805/0.0	4	x	x*		x		xx	xx							4	spigot snifle
1290		800	✓ 5 ✓	00	7223	x	806/0.3	5	x	x*		x		xx	x							5	
1291		600	✓ 6 ✓	00	8978	x	807/0.5	6	x	x'		x		xx	x							6	
1292		500	✓ 7 ✓	00	7488	x	808/0.6	7	x	x		x		xx	x							7	
1293		450	✓ 8	00		x	809/0.9	8	x	x		x		xx	xx							8	
1294	T max	440	✓ 9 ✓	00	8953 7504	xx	810/0.8	9	x	x		x		xxxx	x							9	
1295		400	✓ 10 ✓	00	0257	x	811/0.9	10	x	x		x		xx	x							10	
1296	34.78	390	✓ 11	00		x	812/0.5	11	x	x*		x		xx	x							11	
1297	34.7	345	✓ 12 ✓	00	0336	x	813/0.8	12	x			x		xx	x	x	x					12	
1298	34.4	279	✓ 13 ✓	00	7475 7222	xx	814/0.2	13	x	x		x		xx	x	x	x					13	
1299	34.1	245	✓ 14 ✓	10	9061	x	815/-0.4	14	x	x		x		xx	x	x	x					14	very slow spigot dribble
1300	33.6	222	✓ 15	00		x	816/-1.1	15	x	x*		x		xx	xx	x	x					15	
1301	33.1	195	✓ 16 ✓	00	9069	x	817/-0.8 819/-0.7	16	xx	x		x		xx	x	x	x					16	
1302	32.9	177	✓ 17	00		x	818/-1.4	17	x	x*	x	x		xxxx	x	x	x					17	
1303	32.6	146	✓ 18 ✓	00	8980	x	820/-0.6	18	x	x		x		xx	x	x	x					18	
1304	32.3	124	✓ 19 ✓	00	7352	x	821/-0.3 822/-0.2	19	xx	x		x		xx	x	x	x					19	
1305	31.8	88	✓ 20 ✓	00	8968 9114	xx	823/0.0	20	x			x		xx	x	xx	xx					20	
1306	60		✓ 21	10			824/0.1	21	x	x		xx	x	xx	x	x	x					21	top cap reset
1307	Chl max	56	✓ 22 ✓	00	7166	x	825/0.6	22	x			xx	x	x	xxxx	x	x	x				22	
1308		20	✓ 23	00			826/-0.3	23	x	x		xx	x	x	xx	x	x	x				23	
1309		5	✓ 24 ✓	00	7637	x	827/-0.3	24	x	xx	x		x	x	xx	x	x	x				24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

CFC sampling adjusted - label file needs updating

Do { KS draw
KY pickle

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Bottom = 3418

M-x 2 = 2164

Cast # 60

UTC Date (ddmmmyyyy) ____ | ____ | 2010

Ice Coverage 9/10

Station CB-DW

UTC Time 2152

Water Depth(from surface) 3419 m

CTD File 201007-6060

Lat (N) 75 51.419

Lon (W) 134 39.806

In Air pressure (before/after) - , 0.1

Sound Speed used by Knudsen 1478

Weather/Sea State - 8.3C, 13knt

CTD Operator SE +

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp @ 1800	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	CS-137	1429	Niskin #	Comments
1261 2		2092	✓ 1	00			1297 0.0/1141 -.3/1279 -.3	1	***				*		xx	x						1	Dn 1, Up 2, Dn 1
1262 3		1500	✓ 2	00			1202 -.5	2	*				*		xx	x						2	
1263 4		1500	✓ 3*	00			456 -.6/1429 -.5	3	xx				x		xxxx	xx						3	
1264 5		1000	✓ 4*	0*0			329 -.4/1136 -.3	4	xx				x		xx	xx						4	Dn 2, Up 4, Dn 2
1265 6		800	✓ 5	00			1270 -.3	5	x				x		xx	x						5	
1266 7		600	✓ 6	00			1241 0.0	6	x				x		xx	x						6	
1267 8	500	500	✓ 7	00			1280 0.0	7	x				x		xx	x						7	
1268 9	469	590	✓ 8	00			1267 .3	8	x				x		xx	x						8	Intrusion
1269 10	T max	430	✓ 9	00			1228 .2	9	x				x		xx	x						9	
1270 1		400	✓ 10	00			425 .2	10	x				x		xx	x						10	
1271 2	34.78	361	✓ 11	00			1292 .3	11	x				x		xx	x	x	x				11	
1272 3	34.7	320	✓ 12	01			1238 .1	12	x				x		xx	x	x	x				12	Slow drip bottom
1273 4	34.4	256	✓ 13	00			458 -.3	13	x				x		xx	x	x	x				13	
1274 5	34.1	215	✓ 14*	0*0			1271 -1.0/1219 -.8	14	xx				x		xx	xx	x	x				14	
1275 6	33.6	189	✓ 15	00			1424 -1.0	15	x				x		xx	x	x	x				15	
1276 7	33.1	170	✓ 16*	0*0			1486 -1.1/1362 -1.0	16	xx		x		x		xx	xx	x	x				16	
1277 8	32.9	161	✓ 17	00			1274 -1.0	17	x				x		xx	x	x	x				17	
1278 9	32.6	139	✓ 18*	0*0			1290 -1.0/1417 -0.9	18	xx			xx	x		xx	xx	x	x				18	
1279 10	32.3	110	✓ 19	00			1281 -.8	19	x				x		xx	x	x	x				19	
1280 1	31.8	82	✓ 20*	0*0			1432 -.6/1279 -.5	20	xx			xx	x		xxxx	xx	x	x				20	
1281 2	Chl cal	70	✓ 21*	0*1			1295 -.2	21	x			xx	x		xx	x						21	Slow drip bottom
1282 3	Chl cal	40	✓ 22*	0*0			1494 -.2	22	x			xx	x	x	xx	x	x	x				22	not a cal stop
1283 4		16 20	✓ 23*	0*1			1286 -.3	23	x			xx	x	x	xx	x	x	x				23	20m was right on gradient, moved to 15
1284 5		5	24*	0*0			1244 -.5/1291 -.3	24	xx	x	x	xx	x	x	xxxx	xx	xx	xx				24	not a cal stop

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

* YO-YO calibration stops. Changed from Dn 1, Up 2, Dn 1 to Dn 2, Up 4, Dn 2 as some times the CTD doesn't go the full 1m + flushing would be incomplete.

only water enough for 1 chl

slow drip

120500

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 59

UTC Date (ddmmmyyyy) 08/10/2010

Ice Coverage 10/10

Water Depth(from surface) 3073 m

Station PP-6

UTC Time 1205

In Air pressure (before/after) 1-0.03

Sound Speed used by Knudsen 1478

CTD File 201007-0059

Lat (N) 76 16.15

Lon (W) 132 31.51

Weather/Sea State -10.5C, 12 kts

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tnp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1238	Bot-200	2870	✓1	00			800/-0.2 801/0.0 802/0.0	1	xxx				x		xx	x						1	
1239		2500	✓2				803/-0.1	2	x				x		xx	x					x	2	
1240		2000	✓3	00	1234 (1224)	x	804/-0.1	3	x				x		xx	xx					x	3	
1241		1500	✓4	10	0326	x	829/0.3	4	x				x		xx	x					x	4	shuffle & redraw Oxy
1242		1000	✓5	00	9066 7629	xx	806/0.4	5	x				x		xx	x					x	5	
1243		800	✓6	00	8995	x	807/0.6	6	x				x		xxxx	x					x	6	
1244		600	✓7	00	7207	x	828/1.0	7	x				x		xx	x					x	7	Re draw Oxy
1245		500	✓8	00	9054	x	809/1.1	8	x				x		xx	x					x	8	
1246		450	✓9	00			810/0.9	9	x				x		xxxx	x						9	bubbles in
1247	Tmax	410	✓10	00	7353	x	811/1.1 812/1.4	10	xx				x		xx	x					x	10	
1248		350	✓11	00	7332	x	813/1.1	11	x				x		xx	x					x	11	
1249		300	✓12	00	9024 0314	xx	814/0.8	12	x				x	x	xx	x	x	x			x	12	
1250		250	✓13	00	0280	x	815/0.4	13	x				x	x	xx	x	x	x			x	13	
1251		225	✓14	00			816/0.3	14	x				x	x	xx	x	x	x				14	spiggot open?
1252		200	✓15	00	7433	x	817/1-0.4	15	x				x	x	xx	x	x	x			x	15	
1253	33.1	167	✓16	00			818/-1.0	16	x		x		x	x	xx	xx	x	x				16	
1254		150	✓17	00	9837	x	819/1-0.5	17	x				x	x	xx	x	x	x			x	17	
1255		125	✓18	00			820/-1.2	18	x				x	x	xx	x	x	x				18	
1256		100	✓19	00	41D	x	821/-0.5	19	x				x	x	xx	xx	x	x			x	19	
1257	31.8	77	✓20	00			822/-0.8 823/-0.7	20	xx				x	x	xx	x	x	x				20	
1258	Chl max	6550	✓21	00			824/-0.6	21	x			xx	x	x	xx	x	xx	xx				21	
1259	Chl max	50	✓22	00			825/-0.3	22	x			xx	x	x	xx	x	x	x				22	
1260		20	✓23	00			826/-0.6	23	x			xx	x	x	xxxx	x	x	x				23	lower o ring drip
1261		5	✓24	00	7552	x	827/-0.3	24	x	x	x		x	x	xx	x	x	x			x	24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Draw KS
Pickle JE

Note - Label file has CDOM on 17.

5230

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 58

UTC Date (ddmmmyyyy) 08 / 10 / 2010

Ice Coverage 10 / 10

Water Depth(from surface) 3061 m

Station PP-6

UTC Time 0951

In Air pressure (before/after) -0.15, 0.04

Sound Speed used by Knudsen 1478

CTD File 201007-0058

Lat (N) 76 15.70

Lon (W) 132 31.48

Weather/Sea State -8C, 12kts

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1214		1000	✓ 1	00																			
1215		1000	✓ 2	00				1								x				x		1	
1216		1000	✓ 3	00				2								x				x		2	
1217		1000	✓ 4	10				3								x				x		3	
1218		800	✓ 5	00				4								x				x		4	Spigot drip
1219		800	✓ 6	00				5								x				x		5	
1220		800	✓ 7	00				6								x				x		6	
1221		800	✓ 8	00				7								x				x		7	
1222		600	✓ 9	00				8								x				x		8	
1223		600	✓ 10	00				9								x				x		9	
1224		600	✓ 11	00				10								x				x		10	
1225		600	✓ 12	00				11								x				x		11	
1226		400	✓ 13	00				12								x				x		12	
1227		400	✓ 14	00				13								x				x		13	
1228		400	✓ 15	00				14								x				x		14	
1229		400	✓ 16	00				15								x				x		15	
1230		300	✓ 17	00				16								x				x		16	
1231		300	✓ 18	00				17								x				x		17	
1232		300	✓ 19	00				18								x				x		18	
1233		300	✓ 20	00				19								x				x		19	
1234		5	✓ 21	00				20								x				x		20	
1235		5	✓ 22	00				21								x				x		21	
1236		5	✓ 23	00				22								x				x		22	
1237		5	✓ 24	00				23								x				x		23	
								24								x				x		24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # PP-7 UTC Date (ddmmmyyyy) 08 OCT 2010 Ice Coverage 10/10 Water Depth(from surface) 3567 m
 Station 57 UTC Time 00:52 In Air pressure (before/after) 0.01, -0.07 Sound Speed used by Knudsen 1478
 CTD File 201007-0057 Lat (N) 76° 46.929' N Lon (W) 135° 11.003' W Weather/Sea State -19.5°C 6.1 kt CTD Operator BB/ES

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1190	Bot-200	3367	1	00	9024	x	854, 0.3/855, -0.1/856, -0.1	1	xxx				x		xx	x						1	
1191		3000	2	00	9061	x	857 -0.5	2	x				x		xx	x					x	2	
1192		2500	3	00	7417	x	858 -0.5	3	x				x		xx	x					x	3	
1193		2000	4	10	9066 / 0257	xx	859 -0.5	4	x				x		xxxx	x					x	4	still dripping (p.dly)
1194		1500	5	00	0321	x	849 -0.3	5	x				x		xx	x					x	5	
1195		1000	6	00	7433	x	848 0.1	6	x				x		xx	x					x	6	
1196		800	7	00	7504	x	850 0.2	7	x				x		xx	xx					x	7	
1197		600	8	00	9069	x	851 0.5	8	x				x		xx	x					x	8	
1198		500	9	00	410	x	852 0.5/853 0.7	9	xx	x			x		xx	x					x	9	
1199	T max	412	10	00	8953	x	842 0.7	10	x	x			x		xx	x						10	
1200		400	11	00	8980 / 7552	xx	835 0.7	11	x	x			x		xxxx	x					x	11	
1201		350	12	01	7488	x	844 0.5	12	x	x			x		xx	x	xx	xx			x	12	slow drip from bottom ring
1202		300	13	00	7352	x	846 0.2	13	x	x			x		xx	x	x	x			x	13	
1203		250	14	00	0336	x	836 -0.4	14	x	x			x		xx	x	x	x			x	14	
1204		225	15	00	8978	x	847 -0.6	15	x	x			x		xx	xx	x	x				15	
1205		200	16	00	7475/8968	xx	837 -1.0	16	x	x			x		xx	x	x	x			x	16	
1206	33.1	178	17	00	7676	x	843 -1.1	17	x	x	x		x		xx	x	x	x				17	
1207		150	18	00	7223	x	839 -1.1	18	x	xx			x		xx	x	x	x			x	18	
1208		125	19	00			840 -1.0/841 -0.9	19	xx	x			x		xx	x	x	x				19	
1209		100	20	00	9114	x	830 -0.7	20	x	x			x		xx	x	x	x			x	20	
1210	31.8	74	21	00	7637	x	838 -0.5	21	x	x		xx	x		xx	x	x	x				21	
1211	Chl max	34	22	00	0783	x	831 -0.4	22	x	x		xx	x	x	xxxx	x	x	x				22	
1212		25	23	00			832 -0.4	23	x	x		xx	x	x	xx	x	x	x				23	
1213		5	24	00	7106	x	833 -0.6	24	x	xx	x		x	x	xx	xx	x	x			x	24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # PP-7 UTC Date (ddmmmyyyy) 07/10/2010

Ice Coverage 0/10

Water Depth(from surface) 3568 m

Station 56

UTC Time 22:21

In Air pressure (before/after) -0.21, -0.61

Sound Speed used by Knudsen 1478

CTD File 201007-0056.haz Lat (N) 76°43.187N

Lon (W) 135°10.781W

Weather/Sea State -18.8°C, 7.4kts

CTD Operator BB

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FWALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1166		1000	✓1	00				1								x				x		1	
1167		1000	✓2	01				2								x				x		2	dnp from bottom
1168		1000	✓3	00				3								x				x		3	
1169		1000	✓4	01				4								x				x		4	dnp from bottom
1170		800	✓5	00				5								x				x		5	
1171		800	✓6	00				6								x				x		6	
1172		800	✓7	00				7								x				x		7	
1173		800	✓8	00				8								x				x		8	slushy spigot
1174		600	✓9	00				9								x				x		9	
1175		600	✓10	00				10								x				x		10	
1176		600	✓11	00				11								x				x		11	
1177		600	✓12	00				12								x				x		12	
1178		450	✓13	00				13		x					xx	x						13	for L helicina experiment
1179		400	✓14	00				14								x				x		14	slushy spigot
1180		400	✓15	00				15								x				x		15	slushy spigot
1181		400	✓16	00				16								x				x		16	slushy spigot
1182		400	✓17	00				17								x				x		17	
1183		300	✓18	00				18								x				x		18	
1184		300	✓19	10				19								x				x		19	
1185		300	✓20	00				20								x				x		20	
1186		300	✓21	01				21								x				x		21	dnp from bottom
1187		150	✓22	01				22		x					xx	x						22	for L helicina experiment
1188		50	✓23	01				23		x					xx	x						23	for L helicina experiment
1189		5	✓24	01				24		x					xx	x						24	for L helicina experiment

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments: #13, 22, 23 and 24, take samples from carboys

slushy spigot - needed cleaning

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # CB-17 UTC Date (ddmmmyyyy) 7 Oct 2010

Ice Coverage 16/10

Water Depth(from surface) 3695 m

Station 55 UTC Time 0710

In Air pressure (before/after) -0.091 -0.03

Sound Speed used by Knudsen 1478

CTD File 201007-0055 Lat (N) 76 01.27 Lon (W) 139 57.34

Weather/Sea State -4.6C, 15.2knt

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1142	Bot-200	3500	✓1	00			800/0.4 824/0.1 814/0.1	1	xxx				x		xx	x						1	Dy: 814- replace 825 which had bubbles from reagents
1143		3000	✓2	00			826 /-0.1	2	x				x		xx	xx						2	
1144		2500	✓3	00			827 /0.0	3	x				x		xx	x						3	
1145		2000	✓4	10			828 /0.0	4	x				x		xx	x						4	spigot sniffer
1146		1500	✓5	00			805 /0.1	5	x				x		xxxx	x						5	
1147		1000	✓6	00			820 /0.4	6	x				x		xx	x						6	
1148		800	✓7	00			819 /0.5 818/0.8	7	xx				x		xx	xx						7	
1149		600	✓8				821	8	x				x		xx	x						8	misfire - no water, cap hung in cables
1150		500	✓9	00			822 /1.0	9	x				x		xx	x						9	
1151	T max	450	✓10	00			823 /1.2	10	x				x		xx	x						10	
1152		400	✓11	00			812 /1.3	11	x				x		xx	x						11	
1153	34.78	386	✓12	00			813 /1.2	12	x				x		xx	x	x	x				12	
1154	34.7	345	✓13	00			815 /1.1	13	x				x		xx	x	x	x				13	
1155	34.4	275	✓14	00			807 /0.4	14	x				x		xx	x	x	x				14	
1156	34.1	240	✓15	00			816 /0.0	15	x				x		xxxx	x	x	x				15	
1157	33.6	214	✓16	00			817 /-0.2	16	x				x	x	xx	x	x	x				16	
1158	33.1	188	✓17	00			806 /-0.5	17	x		x		x	x	xx	x	x	x				17	
1159	32.9	170	✓18	00			808 /-0.4	18	x				x	x	xx	x	x	x				18	
1160	32.6	142	✓19	00			809 /-0.3	19	x				x	x	xx	x	x	x				19	
1161	32.3	116	✓20	00			810 /0.0	20	x				x	x	xx	x	x	x				20	
1162	31.8	85	✓21	01			811 /0.3	21	x			xx	x	x	xx	xx	x	x				21	lower O-ring drip
1163	Chl max	54	✓22	00			803 /1.1	22	x			xx	x	x	xx	x	xx	xx				22	
1164		20	✓23	00			801 /0.7 804 /0.9	23	xx			xx	x	x	xxxx	x	x	x				23	
1165		5	✓24	00			802 /0.0	24	x	x	x		x	x	xx	x	x	x				24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

DO { KS draw
MD pickle

flask 829 had remnant picklet sample - needs acid rinse.

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 54 UTC Date (ddmmmyyyy) 06/10/2010

Ice Coverage 9/10

Water Depth(from surface) 3722 m

Station CB-15 UTC Time 1859

In Air pressure (before/after) -0.11, -0.07

Sound Speed used by Knudsen 1478

CTD File 201007-0054 Lat (N) 76 59.58

Lon (W) 139 43.47

Weather/Sea State -6C, 10-15 kts

CTD Operator JE/SZ

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1118	Bot-200	3460	1	00	9054	x	854 0.5° / 855 0.3° / 856 0.2°	1	xxx	x			x		xx	x						1	
1119		3000	2	00	0314	x	857 -0.1°	2	x	x			x		xx	x					x	2	
1120		2500	3	00	7201	x	858 -0.1°	3	x	x			x		xx	x					x	3	DIC snail bubbles
1121		2000	4	01	1224	x	859 -0.1° 849 0.2°	4	xx	x			x		xx	x					x	4	
1122		1500	5	00	7353	x	848 0.0°	5	x	x			x		xx	x					x	5	
1123		1000	6	00	7222	x	850 0.5°	6	x	x			x		xx	x					x	6	
1124		800	7	00	0280	x	851 1.6°	7	x	x			x		xx	x					x	7	
1125		600	8	00	0326	x	852 1.9° 853 1.0°	8	xx	x			x		xx	x					x	8	
1126		500	9	00	8995 1637	xx	842 1.0°	9	x	x			x		xxxx	x					x	9	
1127	T max	432	10	00	0283	x	835 1.1°	10	x	xx			x		xx	xx						10	
1128		400	11	00	7166	x	844 1.0°	11	x	x			x		xx	x					x	11	
1129		350	12	00	7475	x	846 1.0°	12	x	x			x		xx	xx	x	x			x	12	
1130		300	13	00	8968	x	847 1.7°	13	x	x			x		xx	x	x	x			x	13	
1131		250	14	00	7676	x	836 -1.3°	14	x	x			x		xx	x	x	x			x	14	Mixed 750. f. red at 228.
1132		225	15	00	7223/9114	xx	837 -1.3°	15	x	x			x		xx	x	x	x				15	
1133		200	16	00	7332	x	843 -1.4°	16	x	x			x		xxxx	x	x	x			x	16	
1134	33.1	180	17	00	7352	x	839 -1.3°	17	x	xx	x		x		xx	xx	x	x				17	
1135		150	18	00	0336	x	840 -1.1°	18	x	x			x		xx	x	x	x			x	18	
1136		125	19	00			841 -1.3°	19	x	x			x		xx	x	x	x				19	
1137		100	20	00	8978	x	830 0.0° 838 1.2°	20	xx	x			x		xxxx	x	x	x			x	20	
1138	31.8	82	21	00	410	x	831 1.4°	21	x	xx		xx	x		xx	x	xx	xx				21	
1139	Chl max	45	22	00	7488	x	832 1.3°	22	x	x		xx	x	x	xx	x	x	x				22	
1140		25	23	00			833 1.3°	23	x	x		xx	x	x	xx	x	x	x				23	
1141		5	24	00	7352	x	834 -1.2°	24	x	x	x		x	x	xx	x	x	x			x	24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2010-07

Ship: *CCGS Louis S St-Laurent*

Cast # 53 UTC Date (ddmmmyyyy) 06/10/2010

Station CB-15 UTC Time 1406

CTD File 201007-0053 Lat (N) 76 59.90

Lon (W) 139 57.65

Ice Coverage 10/10

In Air pressure (before/after) 0.18, 0.04

Weather/Sea State -8C, 10 kts

Water Depth(from surface) 3730 m

Sound Speed used by Knudsen 1478

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1094		1000	✓ 1	00				1								x				x		1	
1095		1000	✓ 2	00				2								x				x		2	
1096		1000	✓ 3	00				3								x				x		3	
1097		1000	✓ 4	10				4								x				x		4	spigot snuffled
1098		800	✓ 5	00				5								x				x		5	
1099		800	✓ 6	00				6								x				x		6	
1100		800	✓ 7	00				7								x				x		7	
1101		800	✓ 8	00				8								x				x		8	
1102		600	✓ 9	00				9								x				x		9	
1103		600	✓ 10	00				10								x				x		10	
1104		600	✓ 11	00				11								x				x		11	
1105		600	✓ 12	00				12								x				x		12	
1106		400	✓ 13	00				13								x				x		13	
1107		400	✓ 14	00				14								x				x		14	
1108		400	✓ 15	00				15								x				x		15	
1109		400	✓ 16	00				16								x				x		16	
1110		300	✓ 17	00				17								x				x		17	
1111		300	✓ 18	00				18								x				x		18	
1112		300	✓ 19	00				19								x				x		19	
1113		300	✓ 20	00				20								x				x		20	
1114		5	✓ 21	00				21								x				x		21	
1115		5	✓ 22	00				22								x				x		22	
1116		5	✓ 23	00				23								x				x		23	
1117		5	✓ 24	00				24								x				x		24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2010-07

Ship: *CCGS Louis S St-Laurent*

Cast # 52 UTC Date (ddmmmyyyy) 06/10/2010

Ice Coverage 10/10

Water Depth(from surface) 3727 m

Station CB-1015 UTC Time 1213

In Air pressure (before/after) -0.091

Sound Speed used by Knudsen 1478

CTD File 201007-0052 Lat (N) 77 00.04 Lon (W) 140 00.66

Weather/Sea State -8C, 10kts.

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1070		350	✓ 1	00				1							xx	xx						1	
1071		325	✓ 2	00				2							xx	x						2	
1072		300	✓ 3	00				3							xx	x						3	
1073		280	✓ 4	10				4							xx	x						4	spigot snaffle
1074		260	✓ 5	00				5							xx	x						5	
1075		240	✓ 6	00				6							xxxx	x						6	
1076		220	✓ 7	00				7							xx	xx						7	
1077		210	✓ 8	00				8							xx	x						8	
1078		200	✓ 9	00				9							xxxx	x						9	
1079		190	✓ 10	00				10							xx	x						10	
1080		180	✓ 11	00				11							xx	x						11	
1081		170	✓ 12	00				12							xx	x						12	
1082		160	✓ 13	00				13							xx	x						13	
1083		140	✓ 14	00				14							xxxx	x						14	
1084		120	✓ 15	00				15							xx	x						15	
1085		100	✓ 16	00				16							xx	xx						16	
1086		90	✓ 17	00				17							xx	x						17	
1087		80	✓ 18	00				18							xx	x						18	
1088		70	✓ 19	00				19							xx	x						19	
1089		60	✓ 20	00				20							xx	x						20	
1090		50	✓ 21	01				21							xx	x						21	slight bottom O-ring, resealed ok.
1091		40	✓ 22	00				22							xx	x						22	
1092		20	✓ 23	00				23							xx	x						23	
1093		5	✓ 24	00				24							xx	x						24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments: HI RESOLUTION NUTRIENT CAST, NO STOP ON BOTTLES.

Rosette Log for IOS Cruise ID 2010-07

Ship: *CCGS Louis S St-Laurent*

Cast # 51 UTC Date (ddmmmyyyy) 6 Oct 2010

Ice Coverage 10/10

Water Depth(from surface) 3780 m

Station CB-13 UTC Time 0311

In Air pressure (before/after) 10.01

Sound Speed used by Knudsen 1478

CTD File 201007-0051 Lat (N) 77 18.850

Lon (W) 143 9.652

Weather/Sea State - 8.8 °C, 9.5 knot

CTD Operator SZ

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FWALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1046	1	Bot-200	✓3500	00	1222	x	800, 0.2 / 824, 0.2 / 825, 0.2	1	xxx				x		xx	x						1	
1047	2		✓3000	00	0283	x	826, 0.0	2	x				x		xx	xx					x	2	
1048	3		✓2500	00	0336	x	827, 0.0	3	x				x		xx	x					x	3	
1049	4		✓2000	10	8995	x	828, 0.0 / 805, 0.1	4	xx				x		xx	x					x	4	still drippin' -206
1050	5		✓1500	00	9114	x	820, 0.2	5	x				x		xx	x					x	5	
1051	6		✓1000	00	8980	x	819, 0.3	6	x				x		xxxx	x					x	6	
1052	7		✓800	00	7353	x	918, 0.5	7	x				x		xx	x					x	7	
1053	8		✓600	00	7637 8953	xx	821, 0.8	8	x				x		xx	x					x	8	
1054	9		✓500	00	0314	x	822, 1.0	9	x				x		xx	x					x	9	
1055	10	T max	✓443	00	7676	x	823, 1.0	10	x				x		xx	xx						10	
1056	11		✓400	00	7627 8968	xx	812, 1.0	11	x				x		xx	x					x	11	
1057	12		✓350	00	7223	x	813, 0.9	12	x				x	x	xx	x	x	x			x	12	
1058	13		✓300	00	9837	x	815, 0.5	13	x				x	x	xxxx	x	x	x			x	13	
1059	14		✓250	00	7201	x	807, -0.2 / 816, 0.0	14	xx				x	x	xx	x	x	x			x	14	
1060	15		✓225	00	7332	x	817, -0.4	15	x				x	x	xx	x	x	x				15	
1061	16		✓200	00	8978	x	806, -0.7	16	x				x	x	xx	x	x	x			x	16	
1062	17	33.1	✓186	00	1224	x	808, -0.7	17	x		x		x	x	xx	x	x	x				17	
1063	18		✓150	00	7552	x	809, -0.7	18	x				x	x	xxxx	x	x	x			x	18	
1064	19		✓125	00			810, -0.6	19	x				x	x	xx	x	x	x				19	
1065	20		✓100	00	410	x	811, -0.5	20	x				x	x	xx	x	x	x			x	20	
1066	21	31.8	✓84	00	0280	x	803, 0.0	21	x			xx	x	x	xx	x	xx	xx				21	
1067	22	Chl max	✓55	00	0326	x	801, 0.3	22	x			xx	x	x	xx	x	x	x				22	
1068	23		✓25	00			804, 0.0	23	x			xx	x	x	xx	xx	x	x				23	
1069	24		✓5	00	9054	x	802, 0.0	24	x	x	x		x	x	xx	x	x	x			x	24	Doing DIC duplicate, (bubble in 1st?)

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

* SZ drew 1st DIC: SZ drew 2nd. Bubble sizes were similar, but we think may be slightly larger than Michigan's.

* Found some sort of creature, or possibly a piece of fuzz in 1049.

Rosette Log for IOS Cruise ID 2010-07

Ship: *CCGS Louis S St-Laurent*

Cast # 50

UTC Date (ddmmmyyyy) 06/10/2010

Ice Coverage 10/10

Water Depth(from surface) 3781 m

Station CB-13

UTC Time 01:38

In Air pressure (before/after) 1015

Sound Speed used by Knudsen 1478

CTD File 201007-0050

Lat (N) 77° 19.030

Lon (W) 143° 11.070

Weather/Sea State -8.8 10 KNOTS

CTD Operator S.

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
1022		1000	1 ✓	00				1								x				x		1	
1023		1000	2 ✓	00				2								x				x		2	
1024		1000	3 ✓	00				3								x				x		3	
1025		1000	4 ✓	01				4								x				x		4	
1026		800	5 ✓	00				5								x				x		5	
1027		800	6 ✓	00				6								x				x		6	
1028		800	7 ✓	00				7								x				x		7	
1029		800	8 ✓	00				8								x				x		8	
1030		600	9 ✓	00				9								x				x		9	
1031		600	10 ✓	00				10								x				x		10	
1032		600	11 ✓	00				11								x				x		11	
1033	0	600	12 ✓	01				12								x				x		12	
1034		400	13 ✓	00				13								x				x		13	
1035		400	14 ✓	00				14								x				x		14	
1036		400	15 ✓	00				15								x				x		15	
1037		400	16 ✓	00				16								x				x		16	
1038		300	17 ✓	00				17								x				x		17	
1039		300	18 ✓	00				18								x				x		18	
1040		300	19 ✓	00				19								x				x		19	
1041		300	20 ✓	00				20								x				x		20	
1042		5	21 ✓	01				21								x				x		21	
1043		5	22 ✓	00				22								x				x		22	
1044		5	23 ✓	00				23								x				x		23	
1045		5	24 ✓	00				24								x				x		24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

1411

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 49

UTC Date (ddmmmyyyy) 05/10/2010

Ice Coverage 10/10

Water Depth(from surface) 3852 m

Station CB-16

UTC Time 1406

In Air pressure (before/after) -0.02, 0.12

Sound Speed used by Knudsen 1478

CTD File 201007-0649

Lat (N) 77 58 80

Lon (W) 140 00 64

Weather/Sea State -12C, 10kts

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
998	Bot-200	3550	✓1	00	7353	x	1297/1141/1278 -0.3/-0.3/-0.3	1	xxx				x		xx	x						1	
999		3000	✓2	00	7637	x	1202 -0.4	2	x		x		x		xxxx	x						2	
1000		2500	✓3	00	7222 / 0283	xx	456 -0.3	3	x		x		x		xx	x						3	NIGHT WATCH HITS #1000!
1001		2000	✓4	10	0336	x	1429 -0.3	4	x		x		x		xx	x						4	dibble out of spigot
1002		1500	✓5	00	7475	x	329 -0.1/0.1 redraw	5	x		x		x		xx	x						5	oxy redraw - flask rinsed 3x before redraw
1003		1000	✓6	00	9024	x	1136 0.2	6	x		x		x		xx	xx						6	
1004		800	✓7	00	7488	x	1270 0.3	7	x		x		x		xx	x						7	
1005		600	✓8	00	7504	x	1241 0.5	8	x				x		xx	x						8	
1006		500	✓9	00	7433	x	1280/1267 0.7/0.9	9	xx		x		x		xx	x						9	
1007	T max	420	✓10	00	0321	x	1228 0.9	10	x		x		x		xx	xx						10	
1008		400	✓11	00	0257 / 7352	xx	1276 0.9	11	x				x		xx	x						11	
1009	34.78	372	✓12	00	9114	x	1282 1.0	12	x		x		x	x	xx	x	x	x				12	
1010	34.7	330	✓13	00	9066	x	1238 0.7	13	x				x	x	xx	x	x	x				13	
1011	34.4	261	✓14	00	0280	x	458 / 1271 -0.1/0.0	14	xx		x		x	x	xx	x	x	x				14	
1012	34.1	226	✓15	00	9061	x	1219 -0.5	15	x				x	x	xx	x	x	x				15	
1013	33.6	203	✓16	00	1224	x	1424 -0.7	16	x		x		x	x	xx	x	x	x				16	
1014	33.1	171	✓17	00	7417	x	1486 -1.0	17	x		x		x	x	xx	xx	x	x				17	
1015	32.9	151	✓18	00	8953 / 410	xx	1362 -1.0	18	x		x		x	x	xx	x	x	x				18	
1016	32.6	122	✓19	00			1274 -0.4	19	x				x	x	xx	x	x	x				19	
1017	32.3	98	✓20	00	9069	x	1290 -0.7	20	x		x		x	x	xxxx	x	x	x				20	
1018	31.8	74	✓21	00	7522	x	1417 -0.5	21	x		x	xx	x	x	xx	x	x	x				21	
1019	Chl max	56	✓22	00	7166	x	1281 0.0	22	x		x	xx	x	x	xx	x	x	x				22	
1020		20	✓23	00			1432 -0.7	23	x			xx	x	x	xx	x	x	x				23	
1021		5	✓24	00	8980	x	1279 -0.8	24	x	x	x		x	x	xxxx	x	xx	xx				24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments: oxygen: salt is glueing stoppers to flasks
 sampler: JE/KY took over on bot 12
 pickler: MD

↑ salt clips labelled but x's missing.

Rosette Log for IOS Cruise ID 2010-07

Ship: *CCGS Louis S St-Laurent*

Cast # 48

UTC Date (ddmmmyyyy) 04/10 | 2010

Ice Coverage 0/10

Water Depth(from surface) 3806 m

Station CB-12a

UTC Time 23:29

In Air pressure (before/after) 0.01, 0.35

Sound Speed used by Knudsen 1478

CTD File 201007-

Lat (N) 77°39.972'N

Lon (W) 146°16.087'W

Weather/Sea State CALM/CALM

CTD Operator RB

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tnp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
974		✓ 350	1	00				1							xx	xx						1	
975		✓ 325	2	00				2							xx	x						2	
976		✓ 300	3	00				3							xx	x						3	
977		✓ 280	4	10				4							xx	x						4	
978		✓ 260	5	00				5							xx	x						5	
979		✓ 240	6	00				6							xxxx	x						6	
980		✓ 220	7	00				7							xx	xx						7	
981		✓ 210	8	00				8							xx	x						8	
982		✓ 200	9	00				9							xxxx	x						9	
983		✓ 190	10	00				10							xx	x						10	
984		✓ 180	11	00				11							xx	x						11	
985		✓ 170	12	00				12							xx	x						12	
986		✓ 160	13	00				13							xx	x						13	
987		✓ 140	14	00				14							xxxx	x						14	
988		✓ 120	15	00				15							xx	x						15	
989		✓ 100	16	00				16							xx	xx						16	
990		✓ 90	17	00				17							xx	x						17	
991		✓ 80	18	00				18							xx	x						18	
992		✓ 70	19	10				19							xx	x						19	
993		✓ 60	20	00				20							xx	x						20	
994		✓ 50	21	00				21							xx	x						21	
995		✓ 40	22	00				22							xx	x						22	
996		✓ 20	23	00				23							xx	x						23	
997		✓ 10	24	00				24							xx	x						24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments: HI RESOLUTION NUTRIENT CAST, NO STOP ON BOTTLES.

144530

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

New Grey Ice

Cast # 46/47

UTC Date (ddmmmyyyy) 4/10/2010

Ice Coverage 10/10

Water Depth(from surface) 3809 m

Station CB-12

UTC Time 1445

In Air pressure (before/after) 0.24, 0.09

Sound Speed used by Knudsen 1478

CTD File 201007-0047

Lat (N) 77 41.17

Lon (W) 146 42.17

Weather/Sea State -14C, 2kts

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
950	Bot-200	3610	✓1	00	8953	x	854/-0.4 855/-0.3 856/-0.1	1	xxx				x		xx	x						1	
951		3000	✓2	00	8995	x	857/-0.3	2	x				x		xxxx	x					x	2	
952		2500	✓3	00	7332 41D	xx	858/-0.3	3	x				x		xx	x					x	3	
953		2000	✓4	10	9066	x	859/-0.3	4	x				x		xx	x					x	4	
954		1500	✓5	00	0314	x	848/-0.2	5	x				x		xx	x					x	5	
955		1000	✓6	00	9069	x	849/0.2 850/0.3	6	xx				x		xx	x					x	6	
956		800	✓7	00	0280	x	851/0.5	7	x				x		xxxx	x					x	7	
957		600	✓8	00	7476 7552	xx	852/0.7	8	x				x		xx	xx					x	8	
958		500	✓9	00	7433	x	853/1.0	9	x				x		xx	x					x	9	
959	T max	450	✓10	00	7629	x	842/1.2	10	x				x		xx	x						10	
960		400	✓11	00	7166	x	835/1.0	11	x				x		xx	x					x	11	
961		350	✓12	00	0321 8968	xx	844/1.2	12	x				x	x	xx	x	x	x			x	12	
962		300	✓13	00	8980	x	846/0.5	13	x				x	x	xx	x	x	x			x	13	
963		250	✓14	00	0326	x	847/0.0	14	x				x	x	xx	xx	x	x			x	14	
964		225	✓15	00	7223	x	836/-0.3	15	x				x	x	xx	x	x	x				15	
965		200	✓16	00	1224	x	837/-0.5	16	x				x	x	xx	x	x	x			x	16	
966	33.1	179	✓17	00	8978	x	843/-0.4	17	x		x		x	x	xxxx	x	x	x				17	
967		150	✓18	00	9837	x	839/-0.4	18	x				x	x	xx	x	x	x			x	18	
968		125	✓19	00			840/-0.8 841/-0.8	19	xx				x	x	xx	xx	x	x				19	
969		100	✓20	00	7417	x	830/0.0	20	x				x	x	xx	x	xx	xx			x	20	
970	31.8	84	✓21	00	7201	x	838/0.3	21	x			xx	x	x	xx	x	x	x				21	
971	Chl max	57	✓22	00	9061	x	831/0.5	22	x			xx	x	x	xx	x	x	x				22	
972		25	✓23	00			832/-0.6	23	x			xx	x	x	xx	x	x	x				23	
973		5	✓24	00	9054	x	833/-0.1	24	x	x	x		x	x	xx	x	x	x			x	24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Note for analysts - if labels say cast 46 - correct # is cast 47; there were no bottles taken on 46

KS draw
KY pickle

12 43 30

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 45

UTC Date (ddmmmyyyy) 04/10/2010

Ice Coverage 10/10

new grey ice

Water Depth(from surface) 3809 m

Station CB-12

UTC Time 1243

In Air pressure (before/after) 10.28

Sound Speed used by Knudsen 1478

CTD File 201007-0045

Lat (N) 77 41.34

Lon (W) 146 42.36

Weather/Sea State -14C, 5kts

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
926		1000	✓1	00				1								x				x		1	
927		1000	✓2	00				2								x				x		2	
928		1000	✓3	00				3								x				x		3	
929		1000	✓4	10				4								x				x		4	spigot sniffle
930		800	✓5	00				5								x				x		5	
931		800	✓6	00				6								x				x		6	
932		800	✓7	00				7								x				x		7	
933		800	✓8	00				8								x				x		8	
934		600	✓9	00				9								x				x		9	
935		600	✓10	00				10								x				x		10	
936		600	✓11	00				11								x				x		11	
937		600	✓12	00				12								x				x		12	
938		400	✓13	00				13								x				x		13	
939		400	✓14	00				14								x				x		14	
940		400	✓15	00				15								x				x		15	
941		400	✓16	00				16								x				x		16	
942		300	✓17	00				17								x				x		17	
943		300	✓18	00				18								x				x		18	
944		300	✓19	00				19								x				x		19	
945		300	✓20	00				20								x				x		20	
946		5	✓21	10				21								x				x		21	upper O-ring needed resealing
947		5	✓22	00				22								x				x		22	
948		5	✓23	00				23								x				x		23	
949		5	✓24	00				24								x				x		24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 44

UTC Date (ddmmmyyyy) 4 Oct 2010

Ice Coverage 9/10

Water Depth(from surface) 3825 m

Station CB-9

UTC Time 0439

In Air pressure (before/after) 10.05

Sound Speed used by Knudsen 1478

CTD File 201007-0044

Lat (N) 77 58.765

Lon (W) 150 4.918

Weather/Sea State -14°C, 0 knts

CTD Operator SZ/JC

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
902	Bot-200	3614	✓1	00	7433	x	800/0.0 824/0.3 825/0.1	1	xxx	x			x	x	xx	x						1	
903		3000	✓2	00	0336	x	826/-0.3	2	x	x			x		xxxx	x					x	2	
904		2500	✓3	00	7353 9054	xx	827/-0.3	3	x	x			x	x	xx	x					x	3	
905		2000	✓4	10	7488	x	828/-0.3	4	x	xx			x		xx	x					x	4	
906		1500	✓5	00	7201	x	829/-0.1	5	x	x			x	x	xxxx	x					x	5	
907		1000	✓6	00	0326	x	820/0.1 819/0.3	6	xx	x			x	x	xx	x					x	6	
908		800	✓7	00	7352	x	818/0.5	7	x	x			x	x	xxxx	x					x	7	
909		600	✓8	00	9837 9024	xx	821/0.6	8	x	x			x	x	xx	xx					x	8	
910		500	✓9	00	9114	x	822/0.6 823/1.0	9	xx	x			x	x	xx	x					x	9	
911	T max	476	✓10	00	7223	x	812/0.9	10	x	xx			x	x	xx	x						10	
912		400	✓11	00	0321	x	813/0.8	11	x	x			x		xx	x					x	11	
913		350	✓12	00	0257 7637	xx	814/0.7	12	x	x			x	x	xx	x	x	x			x	12	
914		300	✓13	00	8980	x	815/0.4	13	x	x			x		xx	x	x	x			x	13	
915		250	✓14	00	7504	x	807/-0.1	14	x	x			x	x	xx	xx	x	x			x	14	
916		225	✓15	00	0283	x	816/-0.6	15	x	xx			x		xx	x	x	x				15	
917		200	✓16	00	1224	x	817/-0.7	16	x	x			x	x	xx	x	x	x			x	16	
918	33.1	192	✓17	00	7222	x	806/-0.7	17	x	x	x		x		xx	x	x	x				17	
919		150	✓18	00	7475	x	808/-0.7	18	x	x			x	x	xx	x	x	x			x	18	
920		125	✓19	00			809/-0.5	19	x	x			x		xx	xx	xx	xx				19	
921		100	✓20	00	8968	x	810/-0.3	20	x	x			x	x	xx	x	x	x			x	20	
922	31.8	78	✓21	00	8953	x	811/0.2	21	x	x		xx	x		xx	x	x	x				21	
923	Chl max	47	✓22	00	7629	x	803/0.5	22	x	x		xx	x	x	xx	x	x	x				22	
924		25	✓23	00			801/0.5	23	x	x		xx	x	x	xx	x	x	x				23	
925		5	✓24	00	9061	x	804/-0.3	24	x	x	x		x	x	xx	x	x	x			x	24	Copepod in O2 sample (Calanus glacialis)

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Deployed in 60 sec: from hanger doors opened to set in water.

High on POC W. water

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 43

UTC Date (ddmmmyyyy) 04 Oct 2010

Ice Coverage 9/10 w/new ice

Water Depth(from surface) 3824 m

Station CB-9

UTC Time 0313

In Air pressure (before/after) 10.24

Sound Speed used by Knudsen 1478

CTD File 201007-0043

Lat (N) 77 58.769

Lon (W) 150 4.986

Weather/Sea State -14°, 2knt

CTD Operator SZ

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tnp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
878		1000	✓ 1	00				1								x				x		1	
879		1000	✓ 2	00				2								x				x		2	
880		1000	✓ 3	00				3								x				x		3	
881		1000	✓ 4	00				4								x				x		4	
882		1000	✓ 5					5								x				x		5	did not sample (no need)
883		800	✓ 6	00				6								x				x		6	
884		800	✓ 7	00				7								x				x		7	
885		800	✓ 8	00				8								x				x		8	
886		800	✓ 9	00				9								x				x		9	
887		800	✓ 10					10								x				x		10	did not sample (no need)
888		600	✓ 11	00				11								x				x		11	
889		600	✓ 12	00				12								x				x		12	
890		600	✓ 13	00				13								x				x		13	
891		600	✓ 14	00				14								x				x		14	
892		600	✓ 15					15								x				x		15	did not sample (no need)
893		400	✓ 16	00				16								x				x		16	
894		400	✓ 17	00				17								x				x		17	
895		400	✓ 18	00				18								x				x		18	
896		400	✓ 19	00				19								x				x		19	
897		400	✓ 20					20								x				x		20	did not sample (no need)
898		300	21	01				21								x				x		21	
899		300	22	00				22								x				x		22	
900		300	23	00				23								x				x		23	
901		300	24	00				24								x				x		24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

jelly fish strand on Rosette
Deployment in 120 sec.

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 42

UTC Date (ddmmmyyyy) 03/10/2010

Ice Coverage 9⁺/10

Water Depth(from surface) 3822 m

Station CB-11

UTC Time 1000

In Air pressure (before/after) -0.07, 0.13

Sound Speed used by Knudsen 1478

CTD File 201007-0042

Lat (N) 78 59.78

Lon (W) 150 02.44

Weather/Sea State -15C, 6 kts

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
854	Bot-200	3625	✓1	00	7504	x	854/0.3 855/0.1 856/0.0	1	xxx				x		xx	x						1	
855		3000	✓2	00	7629	x	857/-0.3	2	x		x		x		xx	x						2	
856		2500	✓3	00	9114	x	858/-0.3	3	x		x		x		xx	x						3	
857		2000	✓4	00	8995 1224	xx	859/-0.3	4	x		x		x		xx	x						4	
858		1500	✓5	00	0257	x	848/-0.3	5	x		x		x		xx	x						5	
859		1000	✓6	00	7552	x	849/0.0	6	x		x		x		xxxx	xx						6	
860		800	✓7	00	8980 9069	xx	850/0.3	7	x		x		x		xx	x						7	
861		600	✓8	00	9066	x	851/0.5 852/0.7	8	xx				x		xx	x						8	
862		500	✓9	00	0283	x	853/0.7	9	x		x		x		xxxx	x						9	
863	T max	400	✓10	00	0314	x	842/0.7	10	x		x		x		xx	xx						10	
864		400	✓11	00	7223	x	835/0.6 844/0.8	11	xx				x		xx	x						11	
865	34.78	380	✓12	00	7332 0321	xx	846/0.7	12	x		x		x	x	xx	x	x	x				12	
866	34.7	334	✓13	00	41D	x	847/0.5	13	x				x	x	xx	x	x	x				13	
867	34.4	264	✓14	00	9837	x	836/-0.1	14	x		x		x	x	xxxx	x	x	x				14	
868	34.1	234	✓15	00	7637	x	837/-0.5	15	x				x	x	xx	x	x	x				15	
869	33.6	208	✓16	00	8953	x	843/-0.8	16	x		x		x	x	xx	x	xx	xx				16	
870	33.1	175	✓17	00	7222	x	839/-0.9	17	x		x		x	x	xx	xx	x	x				17	
871	32.9	156	✓18	00	7676 7417	xx	840/-0.7	18	x		x		x	x	xx	x	x	x				18	
872	32.6	126	✓19	00			841/-0.9	19	x				x	x	xx	x	x	x				19	
873	32.3	100	✓20	00	9061	x	830/-0.7	20	x		x		x	x	xx	x	x	x				20	
874	31.8	75	✓21	00	0280	x	838/-0.1	21	x		x	xx	x	x	xx	x	x	x				21	
875	Chl max	48	✓22	00	7475	x	831/-0.2	22	x		x	xx	x	x	xx	x	x	x				22	
876		20	✓23	00			832/-0.2	23	x			xx	x	x	xx	x	x	x				23	
877		5	✓24	00	8968	x	833/-0.4	24	x	x	x		x	x	xx	x	x	x				24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Do { KY draw
MD pickle

1628

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 41

UTC Date (ddmmmyyyy) 02/10/2010

Ice Coverage 9⁺/10

Water Depth(from surface) 3812 m

Station CB-70

UTC Time 1627

In Air pressure (before/after) -0.08 / 0.02

Sound Speed used by Knudsen 1478

CTD File 201007-0641

Lat (N) 79 09.34

Lon (W) 155 14.62

Weather/Sea State -17C 9kts

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
830		350	✓1	00			854/0.4 855/0.3 856/0.4	1	xxx						xx	xx						1	
831		325	✓2	00			857/0.1	2	x						xx	x						2	
832		300	✓3	00			858/-0.1	3	x						xx	x						3	
833		280	✓4	00			859/-0.5	4	x						xx	x						4	sniffle on spigot
834		260	✓5	00			848/-0.6 849/-0.3	5	xx						xx	x						5	
835		240	✓6	00			850/-0.8	6	x						xxxx	x						6	
836		220	✓7	00			851/-0.0	7	x						xx	xx						7	
837		210	✓8	00			852/-1.2	8	x						xx	x						8	
838		200	✓9	00			853/-1.3	9	x						xxxx	x						9	
839		190	✓10	00			842/-1.4	10	x						xx	x						10	
840		180	✓11	00			835/-1.6	11	x						xx	x						11	slushy spigot
841		170	✓12	00			844/-1.5	12	x						xx	x						12	"
842		160	✓13	00			846/-1.5	13	x						xx	x						13	"
843		140	✓14	00			847/-1.5	14	x						xxxx	x						14	
844		120	✓15	00			836/-1.4	15	x						xx	x						15	
845		100	✓16	00			837/-1.3	16	x						xx	xx						16	
846		90	✓17	00			843/-1.2 839/-1.2	17	xx						xx	x						17	
847		80	✓18	00			840/-1.1	18	x						xx	x						18	
848		70	✓19	00			841/-1.0	19	x						xx	x						19	
849		60	✓20	00			830/-0.7	20	x						xx	x						20	
850		50	✓21	00			838/-0.6	21	x						xx	x						21	
851		40	✓22	00			831/-0.5	22	x						xx	x						22	
852		20	✓23	00			832/-0.7	23	x						xx	x						23	
853		5	✓24	00			833/-0.5	24	x						xx	x						24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments: HI RESOLUTION NUTRIENT CAST, NO STOP ON BOTTLES.

Draw KS
Pickle JE

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 40

UTC Date (ddmmmyyyy) 02/10/2010

Ice Coverage 9⁺/10

Water Depth(from surface) 3818 m

Station CB-70

UTC Time 1142

In Air pressure (before/after) -0.16/0.03

Sound Speed used by Knudsen 1478

CTD File 201007-0040

Lat (N) 79 10.10

Lon (W) 155 18.22

Weather/Sea State -18C 10kts

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
806	Bot-200	3620	1✓	00			800/-0.4 802/-0.7 824/-0.7	1	xxx				x		xx	xx						1	frozen "snot" from spigot (NO PROBLEM)
807		3000	2✓	00			825/-1.2	2	x				x		xx	x						2	
808		2500	3✓	00			826/-1.1	3	x				x		xx	x						3	
809		2000	4✓	10			827/-1.1	4	x				x		xx	x						4	slushy snuffle from spigot
810	*	1500	*5✓	00			828/-1.0 829/-0.7	5	xx				x		xx	xx						5	
811	*	1000	*6✓	00			820/-0.8 819/-0.5	6	xx				x		xxxx	xx						6	
812		800	7✓	00			818/-0.7	7	x				x		xx	x						7	
813		600	8✓	00			821/-0.5	8	x				x		xx	x						8	
814		500	9✓	00			822/-0.5	9	x				x		xxxx	x						9	
815	T max	460	10✓	00			823/-0.4	10	x				x		xx	x						10	
816	34.78	347	11✓	00			812/-0.2	11	x				x		xx	x						11	
817	34.7	308	12✓	00			813/-0.3	12	x				x		xx	x	x	x				12	
818	34.4	239	13✓	00			814/-1.0	13	x				x		xx	x	x	x				13	
819	34.1	212*	*14✓	00			815/-1.0 807/-1.0	14	xx				x		xxxx	xx	x	x				14	
820	33.6	184	15✓	00			816/-1.3	15	x				x		xx	x	x	x				15	
821	33.1	155*	*16✓	00			817/-1.4 806/-1.4	16	xx		x		x		xx	xx	xx	xx				16	
822	32.9	137	17✓	00			808/-1.4	17	x				x		xx	x	x	x				17	
823	32.6	107	18✓	00			809/-1.3	18	x				x		xx	x	x	x				18	
824	32.3	88*	*19✓	00			810/-1.2	19	x			xx	x		xx	x	x	x				19	
825	31.8	65*	*20✓	00			811/-0.9	20	x			xx	x		xx	x	x	x				20	
826	Chl max	50*	*21✓	10			803/-0.7	21	x			xx	x		xx	x	x	x				21	top cap not seated properly
827	Chl max	45 50	*22✓	00			801/-0.7	22	x			xx	x	x	xx	x	x	x				22	
828	*	25	23✓	00			804/-0.7	23	x			xx	x	x	xx	x	x	x				23	no Y6Y6
829	*	5	*24✓	00			1452/-1.3	24	x	x	x	xx	x	x	xx	x	x	x				24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments: CALIBRATION CAST: AT STARRED BOTTLES STOP, WAIT 30 s, UP 1m, DOWN 2m, UP 1m, WAIT 30s, FIRE BOTTLE

DOWN UP DOWN

O₂ Jane draw / Kenny pickle

Rosette Log for IOS Cruise ID 2010-07

Ship: *CCGS Louis S St-Laurent*

Cast # 39 UTC Date (ddmmmyyyy) 1 Oct 2010

Ice Coverage 9/10

Water Depth(from surface) 2956 m

Station CB-10 UTC Time 0502

In Air pressure (before/after) 0 -0.16

Sound Speed used by Knudsen 1478

CTD File 201007-0039 Lat (N) 78 16.861 Lon (W) 153 4.298

Weather/Sea State -5.3°C, 10 kt

CTD Operator SE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
782	Bot-200	2900	✓1	00	9837	x	800/0.5 802/0.3 824/0.2	1	xxx				x		xx	x						1	
783		2000	✓2	00	9066	x	825/-0.2	2	x				x		xx	x						2	
784		1500	✓3	00	8953	x	826/0.0	3	x				x		xx	x						3	
785		1200	✓4	10	0314	x	827/0.0	4	x				x		xx	x						4	Spigot dribble
786		1000	✓5	00	7222	x	828/0.1	5	x				x		xx	x					x	5	
787		800	✓6	00	7332 7676	xx	829/0.5	6	x				x		xx	x					x	6	
788		700	✓7	00	7417	x	820/0.5	7	x				x		xxxx	x						7	
789		600	✓8	00	7637	x	819/0.7	8	x				x		xx	xx					x	8	
790		500	✓9	00	9061 0283	xx	818/0.9	9	x				x		xx	x					x	9	
791	T max	439	✓10	00	0280	x	821/0.9	10	x				x		xx	x						10	
792		400	✓11	00	0321	x	822/0.8	11	x				x		xxxx	x					x	11	
793		350	✓12	00	7475	x	823/0.7	12	x				x		xx	x	x	x			x	12	
794		300	✓13	00	7223	x	812/0.3 813/0.5	13	xx				x		xx	x	x	x			x	13	
795		250	✓14	00	8968 41D	xx	814/0.3	14	x				x		xx	xx	x	x			x	14	
796		225	✓15	00	7504	x	815/0.7	15	x				x		xx	x	x	x				15	
797		200	✓16	00	7166	x	807/-0.9	16	x		x		x		xx	x	x	x			x	16	
798	33.1	187	✓17	00	7552	x	816/-1.0	17	x				x		xx	x	x	x				17	
799		150	*18	00	8980	x	817/-0.8 806/-0.6	18	xx				x		xx	x	x	x			x	18	mistfired at 182 (CTD operator)
800		125	✓19	00			808/-0.6	19	x				x		xx	xx	xx	xx				19	
801		100	✓20	00	7629	x	809/-0.3	20	x				x		xxxx	x	x	x			x	20	
802	31.8	94	✓21	01	8995	x	810/0.0	21	x			xx	x		xx	x	x	x				21	lower O-ring drip, OK on resetting
803	Chl max	60	✓22	00	9114	x	811/0.2	22	x			xx	x	x	xx	x	x	x				22	
804		25	✓23	00			803/0.5	23	x			xx	x	x	xx	x	x	x				23	
805		5	✓24	00	0257	x	801/-0.4	24	x	x	x		x	x	xx	x	x	x			x	24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If Niskin fails, explain this in the comments column.

Comments:

DO { KY Draw
KS Pickle

Rosette Log for IOS Cruise ID 2010-07

Ship: *CCGS Louis S St-Laurent*

Cast # 38 UTC Date (ddmmmyyyy) 1 Oct 2010

Ice Coverage 9/10

Water Depth(from surface) 2829 m

Station CB-10 UTC Time 0331

In Air pressure (before/after) 1-100

Sound Speed used by Knudsen 1478

CTD File 201007-0038 Lat (N) 78 17.244

Lon (W) 153 5.328

Weather/Sea State -5°C, 8kt, no swell

CTD Operator SZ

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
758		1000	1 ✓	00				1								✓				x		1	
759		1000	2 ✓	00				2												x		2	
760		1000	3 ✓	00				3												x		3	
761		1000	4 ✓	00				4												x		4	
762		800	5 ✓	00				5												x		5	
763		800	6 ✓	00				6												x		6	
764		800	7 ✓	00				7												x		7	
765		800	8 ✓	00				8												x		8	
766		600	9 ✓	00				9												x		9	
767		600	10 ✓	00				10												x		10	
768		600	11 ✓	00				11												x		11	
769		600	12 ✓	00				12												x		12	
770		400	13 ✓	00				13												x		13	
771		400	14 ✓	00				14												x		14	
772		400	15 ✓	00				15												x		15	
773		400	16 ✓	00				16												x		16	
774		300	17 ✓	00				17												x		17	
775		300	18 ✓	00				18												x		18	
776		300	19 ✓	00				19												x		19	
777		300	20 ✓	00				20												x		20	
778		5	21 ✓	00				21												x		21	
779		5	22 ✓	00				22												x		22	
780		5	23 ✓	00				23												x		23	
781		5	24 ✓	00				24								✓				x		24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

1min stops

Cesium Cast

change label file

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent (new)

Cast # 37

UTC Date (ddmmmyyyy) 30/09/2010

Ice Coverage 9/10

Water Depth(from surface) 3824 m

Station CB-8

UTC Time 1505

In Air pressure (before/after) -0.16, -0.05

Sound Speed used by Knudsen 1478

CTD File 201007-0037

Lat (N) 76 59 31

Lon (W) 149 57.53

Weather/Sea State -5.7C, 18kts Wind

CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Niskin #	Oxygen	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FWALK	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Niskin #	Comments
734	Bot-200	3622	✓ 1	00	7223	x	1297/0.7 1141/0.4 1278/0.2	1	xxx				x		xx	x						1	
735		3000	✓ 2	00	7488	x	1202/0.0	2	x				x		xx	x						2	
736		2500	✓ 3	00	41D	x	456/-0.1	3	x				x		xx	x						3	
737		2000	✓ 4	10	7504 0283	xx	1429/-0.1	4	x				x		xx	x						4	spigot snaffle
738		1500	✓ 5	00	0326	x	329 0.0	5	x				x		xx	x						5	
739		1000	✓ 6	00	9024	x	1136/0.3	6	x				x		xxxx	xx						6	
740		800	✓ 7	00	7475 7352	xx	1270/0.5	7	x				x		xx	x						7	
741		600	✓ 8	00	9054	x	1241/0.8 1280/0.8	8	xx				x		xx	x						8	
742		500	✓ 9	00	8968	x	1267/1.0	9	x				x		xxxx	x						9	Self is taking 40x NH4 samples from here for testing protocol for contamination. 9 only
743	T max	464	✓ 10	00	7201	x	1228/0.9	10	x				x		xx	xx						10	
744	34.78	386	✓ 11	00	0280	x	1276/0.0 1282/1.0	11	xx				x		xx	x						11	
745	34.7	342	✓ 12	00	9061 0257	xx	1238/0.7	12	x				x		xx	x	x	x				12	
746	34.4	275	✓ 13	00	0336	x	4583 0.2	13	x				x		xx	x	x	x				13	
747	34.1	244	✓ 14		7353	x	1271/-0.2	14	x				x		xxxx	x	x	x				14	
748	33.6	219	✓ 15		488 0321	x	1219/-0.5	15	x				x		xx	x	x	x				15	
749	33.1	186	✓ 16	00	7433	x	1424/-0.7	16	x		x		x		xx	x	xx	xx				16	
750	32.9	167	✓ 17		7113		1406/-0.7	17	x				x		xx	xx	x	x				17	
751	32.6	136	✓ 18		1224 7166	xx	1362/-0.6	18	x				x		xx	x	x	x				18	
752	32.3	113	✓ 19				1274/-0.5	19	x				x		xx	x	x	x				19	
753	31.8	86	✓ 20		7552	x	1290 1280/-0.2	20	x				x		xx	x	x	x				20	
754	Chl max	57	✓ 21		8980	x	1417/0.5	21	x			xx	x		xx	x	x	x				21	
755		50	✓ 22		7429	x	1281/0.7	22	x			xx	x	x	xx	x	x	x				22	
756		25	✓ 23				1432/0.2	23	x			xx	x	x	xx	x	x	x				23	
757		5	✓ 24		8995	x	1279/-0.4	24	x	x	x		x	x	xx	x	x	x				24	

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Draw JE
Pickle KS

Rosette Log for IOS Cruise ID 2010-07

Ship: *CCGS Louis S St-Laurent*

Cast # 36

UTC Date (ddmmmyyyy) 30 Sep 2010

Ice Coverage 9 / 10

Water Depth(from surface) 3832 m

Station CB-7

UTC Time 0533

In Air pressure (before/after) -15, -0.01

Sound Speed used by Knudsen 1478

CTD File 201007-0036

Lat (N) 75 59.171

Lon (W) 150 0.838

Weather/Sea State -4.4°C, 10kn

CTD Operator SZ/JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Oxygen	Niskin #	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	Niskin #	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Comments
710	BOT-200	3660	✓1	00			854/-0.3 855/-0.1 856/-0.3	3	1				x		1	xx	x						
711		3000	✓2	00			857/-0.3	x	2				x		2	xx	x						
712		2500	✓3	00			858/-0.3	x	3				x		3	xx	x						
713		2000	✓4	10			859/-0.3	x	4				x		4	xx	x						Spigot snuffle
714		1500	✓5	00			848/-0.1	x	5				x		5	xx	x						
715		1000	✓6	00			849/0.3	x	6				x		6	4	xx						
716		800	✓7	00			850/0.5	x	7				x		7	xx	x						
717		600	✓8	00			851/0.7 852/0.8	xx	8				x		8	xx	x						
718		500	✓9	00			853/0.7	x	9				x		9	4	x						
719	T max	482	✓10	00			842/0.9	x	10				x		10	xx	xx						
720	34.78	411	✓11	00			835/0.8 844/1.0	xx	11				x		11	xx	x						
721	34.7	366	✓12	00			846/0.7	x	12				x	x	12	xx	x	x	x				
722	34.4	296	✓13	00			847/0.2	x	13				x	x	13	xx	x	x	x				
723	34.1	270	✓14	00			836/-0.3 bubble in glass	x	14				x	x	14	4	x	x	x				
724	33.6	242	✓15	00			837/-0.3	x	15				x	x	15	xx	x	x	x				
725	33.1	206	✓16	00			843/-0.6	x	16		x		x	x	16	xx	x	xx	xx				- CTD O ₂ has high O ₂ near
726	32.9	186	✓17	00			839/-0.5	x	17				x	x	17	xx	xx	x	x				
727	32.6	152	✓18	00			840/-0.5	x	18				x	x	18	xx	x	x	x				
728	32.3	125	✓19	10			841/-0.4	x	19				x	x	19	xx	x	x	x				Spigot dribble
729	31.8	96	✓20	00			830/-0.2	x	20				x	x	20	xx	x	x	x				
730	Chl max	65	✓21	01			838/0.7	x	21			xx	x	x	21	xx	x	x	x				← CTD Lower T _{max} lower O-ring drip
731		50	✓22	00			831/1.1	x	22			xx	x	x	22	xx	x	x	x				
732		25	✓23	00			832/0.5	x	23			xx	x	x	23	xx	x	x	x				
733		5	✓24	00			833/0.0	x	24	x	x		x	x	24	xx	x	x	x				

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Do {KS draw
KY pickle

5 minute delay in pickling
Nisk 1 oxy's - bubbles in
reagents. Alk iodide sticky.

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 35

UTC Date (ddmmmyyyy) 29 Sep 2010

Ice Coverage 0/10

Water Depth(from surface) 3844 m

Station C85

UTC Time 0320

In Air pressure (before/after) -0.08, -0.15

Sound Speed used by Knudsen 1478

CTD File 201007-0035

Lat (N) 75 18.136

Lon (W) 153 17.455

Weather/Sea State 13/kt, -3.2°C, low swell

CTD Operator SZ

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tnp	Oxygen	Niskin #	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	Niskin #	NUT	Salt	O18	Ba	NH4	Cs-137	1429	Comments
686	BOT-200	3400	1	✓00			824 +.1/825 0.0/826 0.0	✓	1				✓		1	✓							
687		3000	2	✓00			827 -.1	✓	2						2								
688		2500	3	✓00			828 -.2		3						3								
689		2000	4	✓01			829 0.0		4						4								slow drip stopcock
690		1500	5	✓00			820 0.0		5						5								
691		1000	6	✓00			819 +.2/818 +.3	✓	6						6	✓							
692		800	7	✓00			821 +.4		7						7		✓						
693		600	8	✓00			822 +.7		8						8								
694		500	9	✓00			823 +.7		9						9								
695	TMAX	475	10	✓00			812 +.9		10						10	✓							
696	34.78	403	11	✓00			813 +.9/814 +1.0	✓	11						11								
697	34.7	359	12	✓01			815 +.8		12						12			✓	✓				slow drip bottom
698	34.4	288	13	✓00			807 +.2		13						13								
699	34.7	259	14	✓00			816 +.5		14						14	✓							
700	33.6	232	15	✓00			817 -.4		15						15								
701	33.1	200	16	✓00			806 -.8		16		✓				16		✓						
702	32.9	180	17	✓00			808 -.8		17						17								
703	32.6	146	18	✓00			809 -.7		18						18			✓	✓				
704	32.3	123	19	✓00			810 -.7		19						19								
705	31.8	91	20	✓00			811 -.2		20						20		✓						
706	CHMAX	62	21	✓01			803 +.3		21			✓			21								slow drip bottom
707		50	22	✓00			801 +.3		22			✓		✓	22								
708		25	23	✓00			800 +.4		23			✓		✓	23								
709		5	24	✓01			802 +1.0	✓	24	✓	✓		✓	✓	24	✓	✓	✓	✓				slow drip bottom

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments: UP NO STOP BOTTLES

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 34

UTC Date (ddmmmyyyy) 28 Sep 2010

Ice Coverage 10/10

Water Depth(from surface) 3829 m

Station CB-4

UTC Time 2026

In Air pressure (before/after) 1

Sound Speed used by Knudsen 1478

CTD File 201007-0034

Lat (N) 75 0.229

Lon (W) 150 6.238

Weather/Sea State 5kt -3.2°C

CTD Operator SE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Oxygen	Niskin #	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	Niskin #	NUT	Salt	O18	Ba	NH4	Cs-137	129	Comments
662	BT-20	3600	✓1	00	7504	✓	1474 1.1 / 1244 +.7 / 1347 +.6	3	1	✓			✓		1	✓							
663		3000	✓2	00	0283		1364 +.4	✓	2					✓	2			✓	✓				
664		2500	✓3	00	0326		1494 +.3		3						3								
665		2000	✓4	00	9024/7475	✓	4245 +.3		4					✓	4			✓	✓				
666		1500	✓5	00	7223		705 +.3		5						5								
667		1000	✓6	00	7488		1343 +.6 / 1381 +.6	✓	6				✓		6		✓	✓	✓				
668		800	✓7	00	4110		1366 +.7		7						7								
669		600	✓8	00	7352		1452 +.9		8						8			✓	✓				
670		500	✓9	00	0280/9061	✓	1484 +.1		9				✓		9								
671	TMAX	471	✓10	00	0257		1422 +.2		10						10			✓	✓				
672	34.78	412	✓11	00	0336		1299 +.2		11						11		✓						
673	34.7	362	✓12	00	7353		1363 +.2		12					✓	12		✓	✓	✓				
674	34.4	301	✓13	00	9054		1293 +.5		13						13								
675	34.1	240	✓14	00		✓		✓	14		✓			✓	14								No trip, stuck
676	33.6	241	✓15	00	7201/0321	✓	1445 +.1 / 1418 +.1	✓	15					✓	15								
677	33.1	207	✓16	00	7629	✓	1482 -.3		16		✓			✓	16		✓						
678	32.9	186	✓17	00			1328 -.1		17						17								missed dups on NUTS ⇒ no label was printed
679	32.6	152	✓18	00	8945	✓	1443 -.3		18					✓	18								
670	32.3	129	✓19	00			1216 0.0		19						19								missed dups on B+O18 ⇒ no labels printed
681	31.8	97	✓20	00	9114	✓	1204 +.5		20					✓	20								
682	Chl MAX	60	✓21	00	7483	✓	1223 +.2		21			✓			21								
683		50	✓22	00	1224	✓	1225 +.2		22			✓		✓	22								
684		25	✓23	01			1499 +.9		23			✓		✓	23								
685		5	✓24	00	7166	✓	1309 0.0	✓	24	✓	✓		✓	✓	24	✓	✓	✓	✓				Slow Drip

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

label file corrected to what was actually sampled

new paracetic-like twin cover

no swell

113500

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 33
 Station CB4
 CTD File 201007-0033
 UTC Date (ddmmmyyyy) 28 09 2010
 UTC Time 1134
 Lat (N) 74 59.02
 Lon (W) 150 01.65

Ice Coverage 1/10 pancake ice
 In Air pressure (before/after) 10.04
 Weather/Sea State 2kts wind -3C v. small swell

Water Depth (from surface) 3827 m
 Sound Speed used by Knudsen 1478
 CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Oxygen	Niskin #	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	Niskin #	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Comments	
638		350	*1	✓	00		1297 / 0.9 1141 / 0.9	2	1						1	✓	✓							
639		325	2	✓	00		1278 / 0.4	✓	2						2									
640		300	3	✓	00		1202 / 0.0		3						3									
641		280	4	✓	00		456 / -0.2		4						4									
642		260	5	✓	00		1429 / -0.4		5						5									sniffle on spigot, lower oring drip
643		240	*6	✓	00		329 / -0.7 1136 / -0.7	✓	6						6		✓							
644		220	7	✓	10		1276 / -0.9		7						7	✓								drip from spigot
645		210	8	✓	00		1241 / -1.0		8						8									
646		200	*9	✓	500		1280 / -0.9 1267 / -0.9	✓	9						9		✓							
647		190	10	✓	00		1228 / -0.9		10						10									
648		180	11	✓	01		1276 / -0.8		11						11									lower O-ring leak - fixed by re-seating
649		170	12	✓	01		1282 / 0.7		12						12									small oring drip
650		160	*13	✓	500		1238 / -0.7 458 / -0.5	✓	13						13		✓							
651		140	14	✓	00		1271 / -0.1		14						14									
652		120	15	✓	00		1219 / -0.5		15						15	✓								
653		100	16	✓	00		1424 / -0.1		16						16									
654		90	*17	✓	00		1486 / 0.1		17			✓			17		✓							
655		80	18	✓	00		1362 / 0.4		18						18									
656		70	19	✓	00		1274 / 0.5		19						19	✓								
657	Chl Max	60	*20	✓	00		1290 / 0.5		20			✓			20									
658		50	*21	✓	00		1417 / 0.4		21			✓			21									
659		40	*22	✓	00		1281 / 0.0 1432 / 0.2	✓	22			✓			22		✓							
660		20	*23	✓	00		1279 / 0.1		23			✓			23									
661		5	*24	✓	00		1291 / 0.0 439 / -0.3	✓	24			✓			24	✓	✓							

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

STOP TO CLOSE BOTTLES

CALIBRATION CAST: MIX WATER AROUND ROSETTE: WAIT 30 s
 AT * NISKIN #

& HI RES NUTS CAST

30 total

— CHOOSE 6 DEPTHS FOR CHL. * BOTTLES

UP 1m DOWN 2m UP 1m
 WAIT 30s → FIRE BOTTLE

Rosette Log for IOS Cruise ID 2010-07

Ship: *CCGS Louis S St-Laurent*

Cast # 32

UTC Date (ddmmmyyyy) 28 Sep 2010

Ice Coverage 0/10

Water Depth(from surface) 3812 m

Station CB 3

UTC Time 0316

In Air pressure (before/after)

Sound Speed used by Knudsen 1473

CTD File 201007-0032

Lat (N) 73 59.909

Lon (W) 149 59.446

Weather/Sea State -2.5, 10knt, swell

CTD Operator SZ

Samp #	Target Property <i>Bot=38</i>	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp <i>225/Start 2323 SW</i>	Oxygen	Niskin #	DIC/ALK ✓	CDOM ✓	Chl a (Total) ✓	Bacteria ✓	FW ALK ✓	Niskin #	NUT ✓	Salt ✓	O18	Ba	NH4	Cs-137	T-429	Comments
614	Bot 200	3600	1	✓00			854.2/855.90/856.6	3	1				Y		1	✓✓	✓						
615		3000	2	✓00			857 -1	Y	2				Y		2	✓✓	✓						
616		2500	3	✓00			858 -1		3						3	✓✓							
617		2000	4	✓00			859 -1		4						4		✓						
618		1500	5	✓00			848 0.0		5						5								
619		1000	6	✓00			849 +1.3		6						6								
620		800	7	✓00			850 +1.5		7						7								
621		600	8	✓00			851 +1.7		8						8								
622		500	9	✓00			852 1.9/853 1.0	✓	9						9								
623	Tmax	465	10	✓00			842 +1.0		10						10								
624	34.78	402	11	✓00			835 +1.0		11						11								
625	34.7	350	12	✓01			844 +1.0		12				Y		12			✓	✓				Slow drip
626	34.4	282	13	✓00			846 +0.4		13						13								
627	34.1	255	14	✓00			847 -1.2		14						14								
628	33.6	228	15	✓00			836 -1.3		15						15		✓						
629	33.1	201	16	✓00			837 -1.5		16		✓				16	W							
630	32.9	183	17	✓00			843 -1.6		17						17								
631	32.6	153	18	✓00			839 -1.5		18						18								
632	32.3	123	19	✓00			840 -1.5		19						19								
633	31.8	97	20	✓00			841 -1.1/830 0.0	✓	20						20	W							
634	Chl max	70	21	✓01			838 +1.4		21			✓✓			21								Slow drip
635		50	22	✓00			831 +1.9		22			✓✓			22								
636		25	23	✓00			832 +1.9		23			✓✓			23								
637		5	24	01			833 1.7	✓	24	✓	✓		✓	✓	24	✓✓	✓✓	✓✓	✓✓				Slow drip

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments: *Checked by Bill. No CFC.*

swell seen in down profile

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 31

UTC Date (ddmmmyyyy) 27 09 2010

Ice Coverage 0/10

Water Depth(from surface) 3739 m

Station CB2

UTC Time 1841

In Air pressure (before/after) -0.26, -1.12

Sound Speed used by Knudsen 1473

CTD File 201007-0031

Lat (N) 72 59.55

Lon (W) 149 59.69

Weather/Sea State -2.2C/14kts, 1.5m seas

CTD Operator JE/SZ

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Oxygen	Niskin #	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	Niskin #	NUT	Salt	O18	Ba	NH4	CS-187	1129	Comments
590	BOT-20	3500	1	00	4110	✓	824 +.7/825 +.4/826 +.3	3	1				✓		1	W	✓						
591		3000	2	00	7504		827 0.0	✓	2						2								
592		2500	3	00	0283/0326	✓	828 0.0 0.1 redraw		3						3								
593		2000	4	00	9024		829 0.0		4						4								
594		1350	5	00	7475		820 +.2/819 +.3	✓	5						5								
595		1050	6	00	7223		818 0.4		6						6	W							
596		800	7	00	7488		821 +.5		7						7		✓						
597		600	8	00	7352/0336	✓	822 +.9		8						8								
598		500	9	00	7353		823 +1.2		9						9								
599	TMAX	460	10	00	9054		812 +1.2 redraw		10						10								
600	34.78	421	11	00	8968		813 +1.1		11						11								
601	34.7	370	12	00	7201		814 +1.0		12						12	W							
602	34.4	309	13	00	0280		815 +.6		13						13			✓	✓				
603	34.1	281	14	00	9061/0257	✓	807 -.1		14						14		✓						
604	33.6	252	15	00	0321		816 -.2/817 0.0	✓	15						15								
605	33.1	183	16	00	8995	✓	806 +.1		16		✓				16								
606	32.9	158	17	00			808 0.0		17						17								
607	32.6	135	18	00	8980	✓	809 0.0 +.3 redraw		18						18	W							missed nut samples
608	32.3	115	19	00			810 +0.1		19						19		✓						
609	31.8	92	20	00	7552	✓	811 +0.7		20						20								
610	CHLMAX	66	21	00	7166	✓	803 +.6		21			W			21								
611		50	22	00	1224	✓	801 +.9		22			W		✓	22								
612		25	23	00			800 +.6		23			W		✓	23								
613		5	24	00	7433	✓	802 +.8 2.2 redraw	✓	24	✓	✓		✓	✓	24	W	✓	✓	✓				

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Ice churning on at bottom.

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 30 UTC Date (ddmmmyyyy) 27/09 | 2010
 Station CB2a UTC Time 1318
 CTD File 201007-0630 Lat (N) 72 30.53 Lon (W) 149 58.97

Ice Coverage 0/10 Water Depth(from surface) 3705 m
 In Air pressure (before/after) -0.08 Sound Speed used by Knudsen 1470
 Weather/Sea State 8kts 2m seas CTD Operator JE

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Oxygen	Niskin #	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	Niskin #	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Comments	
566	BOT-200	3520	✓1	00			1297/0.2 1141/0.5 1278/0.23		1				✓		1	✓	✓							top up collapsible carbuoy for Rick
567		3000	✓2	00			1202/0.1	✓	2						2									
568		2500	✓3	00			456/0.0		3						3									
569		2000	✓4	00			1429/0.0		4						4		✓							
570		1500	✓5	00			329/0.0		5						5	✓								
571		1000	✓6	00			1136/0.3		6						6									
572		800	✓7	00			1270/0.6 1241/0.6	✓	7						7									
573		600	✓8	00			1280/0.8		8						8		✓							
574		500	✓9	00			1267/0.9		9						9									
575	TMAX	420	✓10	00			1228/1.0		10						10	✓								
576	34.78	380	✓11	00			1276/0.9		11						11									
577	34.7	325	✓12	00			1282/0.8		12						12		✓							
578	34.4	256	✓13	00			1238/0.2		13					✓	13			✓	✓					
579	34.1	228	✓14	00			458/-0.3		14						14									
580	33.6	200	✓15	00			1271/-0.4 1219/-0.2	✓	15						15									
581	33.1	179	✓16	00			1424/-0.8		16		✓				16		✓							
582	32.9	167	✓17	00			1486/-0.5		17						17									
583	32.6	149	✓18	00			1362/-0.5		18						18									
584	32.3	127	✓19	00			1274/-0.7		19						19									
585	31.8	99	✓20	00			1290/-0.4		20						20									
586		50	✓21	00			1417/0.1		21			✓			21									Weak Chl Max
587	ChlM4	40	✓22	00			1281/0.3		22			✓			22									
588		25	✓23	00			1432/3.8		23			✓			23									
589		10	✓24	00			1279/2.6	✓	24	✓	✓		✓	✓	24	✓	✓	✓	✓					-stopped early due to sea state and

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

1432 has small bubble in glass on side

MK draw
JE pickle

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

(2)

Cast # 29

UTC Date (ddmmmyyyy) ____ | ____ | 2010

Ice Coverage 0/10

Water Depth(from surface) 3451 m

Station Sta A

UTC Time 0346 ← actually going in water time

In Air pressure (before/after) 1-0.1

Sound Speed used by Knudsen 1470

CTD File 201007-

Lat (N) 72 40.636

Lon (W) 144 38.977

Weather/Sea State -1.6°C, 15knt, swell

CTD Operator SZ

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Oxygen	Niskin #	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	Niskin #	NUT	Salt	O18	Ba	NH4	CS-137	I-129	Comments	
542	807-200	3250	1	✓ 00	0336	✓	854 +.7 / 855 +.3 / 856 +.3	3	1	✓			✓		1	✓	✓							} Fill carboys + excess for PICs sed. traps
543		3000	2	✓ 00	7353		857 0.0	✓	2						2	✓						✓		
544		2500	3	✓ 00	9054		858 0.0		3						3	✓						✓		
545		2000	4	✓ 01	7552		859 0.0		4						4	✓						✓	Slow drip	
546		1500	5	✓ 00	8980		848 0.0		5	✓					5	✓						✓		
547		1000	6	✓ 00	0280/9061	✓	849 +.4		6						6	✓						✓		
548		800	7	✓ 00	0257		850 +.6 / 851 +.6	✓	7	✓					7	✓						✓		
549		600	8	✓ 00	0321		852 +.8		8						8	✓						✓		
550		500	9	✓ 00	7488		853 +.0		9	✓					9							✓		
551	TMAX	440	10	✓ 00	410/7504	✓	842 +.1		10	✓					10		✓					✓		
552		400	11	✓ 00	0283		835 +.0		11						11							✓	O ₂ flask clipped	
553		350	12	✓ 00	0326		844 +.0		12	✓					12							✓		
554		300	13	✓ 00	9024		846 +.7		13						13			✓	✓			✓		
555		250	14	✓ 00	7475		847 +.2		14						14							✓		
556	33.6	218	15	✓ 00	7223/7352	✓	836 +.4		15						15									
557	33.1	196	16	✓ 00	1224	✓	837 0.1 / 843 0.0	✓	16		✓				16	✓						✓		
558	32.9	185	17	✓ 00			839 +.1		17						17		✓							
559	32.6	160	18	✓ 00	7433	✓	840 +.3		18						18									
560	32.3	135	19	✓ 00			841 +.4		19						19		✓	✓	✓					
561	100	100	20	✓ 00	9114	✓	830 0.0		20	✓					20							✓		
562	CHMAX	80	21	✓ 00	8968	✓	838 / 0.4		21			✓			21									
563		50	22	✓ 00	7201	✓	831 / 0.7		22			✓		✓	22									
564		25	23	✓ 01			832 / 1.0		23			✓			23		✓							chk label file remove cfc, drip on p
565		5	24	✓ 00	8995	✓	834 / 1.7	✓	24	✓	✓		✓	✓	24	✓	✓	✓	✓			✓		

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

No bottle stops.

Ship roll seen in downcast profile @ 30m/s
delayed start ~10m - btw sensor start going in water.

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 28

UTC Date (ddmmmyyyy) 27 Sep 2010

Ice Coverage 0/10

Water Depth(from surface) 3451 m

Station Sta A

UTC Time 0156

In Air pressure (before/after) 1

Sound Speed used by Knudsen 1470

CTD File 2010070028

Lat (N) 72 40.685

Lon (W) 144 39.810

Weather/Sea State -1.4°C, 20 knts, swell

CTD Operator SZ

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Oxygen	Niskin #	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	Niskin #	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Comments
518		1000	✓ 1						1						1	✓				Y			
519		↓	✓ 2						2						2					Y			
520		↓	✓ 3						3						3					Y			
521		↓	✓ 4						4						4					Y			
522	42	800	✓ 5						5						5					Y			
523		↓	✓ 6						6						6					Y			
524		↓	✓ 7						7						7					Y			
525		↓	✓ 8						8						8					Y			
526		600	✓ 9						9						9					Y			
527		↓	✓ 10						10						10					Y			
528		↓	✓ 11						11						11					Y			
529		↓	✓ 12						12						12					Y			
530		400	✓ 13						13						13					Y			
531		↓	✓ 14						14						14					Y			
532		↓	✓ 15						15						15					Y			
533		↓	✓ 16						16						16					Y			
534	42	300	✓ 17						17						17					Y			
535		↓	✓ 18						18						18					Y			
536		↓	✓ 19						19						19					Y			
537		↓	✓ 20						20						20					Y			
538	42	5	✓ 21						21						21					Y			
539		↓	✓ 22						22						22					Y			
540		↓	✓ 23						23						23					Y			
541		↓	✓ 24						24						24	✓				Y			Top vent open. All cast is 5m bottle

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments: Bottle 8 is faulty, no Cs sample
ISUS battery pick on to test pressure seal No batteries in pack.
Stop 30 sec at depth before firing bottles

Ship needs to use thrusters + buoys to hold position.

19 43 00

Rosette Log for IOS Cruise ID 2010-07

Ship: CCGS Louis S St-Laurent

Cast # 27UTC Date (ddmmmyyy) 23 / 09 / 2010Ice Coverage 4 / 10Station CB51UTC Time 1838In Air pressure (before/after) -0.03May CTD 2496 ⁺¹⁰
Water Depth(from surface) 2512 mCTD File 201007-0027Lat (N) 73 30.60Lon (W) 130 56.97Weather/Sea State -3.5C 10kts flat seasSound Speed used by Knudsen 1470CTD Operator JE/SZ

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	CFC Syringe #	CFC	Oxy Flask #, and draw tmp	Oxygen	Niskin #	DIC/ALK	CDOM	Chl a (Total)	Bacteria	FW ALK	Niskin #	NUT	Salt	O18	Ba	NH4	Cs-137	I-129	Comments
494	Bot = 2496 ⁺¹⁰	2300	1	✓ 00	0280	✓	425 0.3 / 1309 0.3 / 1499 0.3	3	1				✓		1	✓	✓						
495		2000	2	✓ 00	9061		1225 0.1	✓	2						2	✓							
496		1500	3	✓ 00	0257 / 0336	✓	1418 0.1		3						3								
497		1200	4	✓ 01	7353		1223 0.2		4						4								Slow drip
498		1000	5	✓ 00	9054		1204 0.4		5						5								
499		800	6	✓ 00	7552 8980	✓	1216 0.7		6						6	✓							
500		600	7	✓ 00	0321		1443 0.8 / 1328 1.0	✓	7						7		✓						
501		500	8	✓ 00	9066		1482 0.9		8						8								
502	TMAX	374	9	✓ 00	9837 / 7417	✓	1445 1.0		9						9								
503	34.78	350	10	✓ 00	8953		1286 1.0		10						10								
504	34.7	292	11	✓ 00	034		1293 0.7		11						11	✓							
505	34.6	263	12	✓ 00	7222		1363 0.7		12						12		✓	✓	✓				
506	34.4	229	13	✓ 00	7332		1299 0.4		13						13								
507	34.1	193	14	✓ 00	7676	✓	1422 -0.1 / 1361 0.0	✓	14						14		✓						
508	33.6	165	15	✓ 00			1484 0.0		15						15		✓						
509	33.1	147	16	✓ 00	7637	✓	1452 -0.3		16		✓				16								
510	32.9	139	17	✓ 00			1366 -0.5		17						17								
511	32.6	123	18	✓ 00			1381 -0.3		18						18	✓		✓	✓				
512	32.3	104	19	✓ 00			1343 -0.5		19						19								
513	31.8	79	20	✓ 00			705 -0.2		20						20								
514	Chl MAX	56	21	✓ 00			1494 0.0		21			✓			21								
515		50	22	✓ 00			1364 0.0		22			✓		✓	22								
516		25	23	✓ 00			1244 0.0		23			✓		✓	23								
517		0	24	00			1347 0.3	✓	24	✓	✓		✓	✓	24	✓	✓	✓	✓	✓			

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments: n 2500m deep

⑧