

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Cast #73

UTC Date (ddmmmyyy)20 | 08 | 2008

Ice Coverage1-2 /10

Water Depth(below hull)1141 m

StationCA305

UTC Time3:06

In Air pressure (before/after)-0.67 /-0.78

Sound Speed1479 m/s

CTD File200830- 073

Lat (N)71° 41.261

Lon (W)131° 53.848

CTD OperatorKS/MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-14 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	129	86-137
1594	Bottle	1123	✓ 1	✓✓														1		2	✓					
1545		1000	✓ 2	✓✓	✓	7637								✓	✓			2								
1596		900	✓ 3	✓✓														3								
1597		800	✓ 4	✓✓										✓	✓			4								
1598		700	✓ 5	✓✓														5								
1599		592	✓ 6	✓✓														6								
1600		500	✓ 7	x✓										✓	✓			7								
1601		450	✓ 8	✓✓														8								
1602	max	400	✓ 9	✓✓	✓	7669								✓	✓			9								
1603	34.8	374	✓ 10	x✓														10								
1604	34.7	296	✓ 11	✓✓														11								
1605	34.6	262	✓ 12	✓✓														12				✓	✓			
1606	34.4	224	✓ 13	✓✓										✓	✓		✓	13								
1607	34.0	184	✓ 14	✓✓										✓	✓			14								
1608	33.5	152	✓ 15	✓✓														15								
1609	33.1	131	✓ 16	✓✓										✓	✓		✓	16								
1610	32.9	121	✓ 17	✓✓										✓	✓			17								
1611	32.6	103	✓ 18	✓✓													✓	18								
1612	32.3	88	✓ 19	✓✓	✓	7357								✓	✓			19								
1613	max	70	✓ 20	✓✓												✓		20								
1614	chl max	58	✓ 21	✓✓										✓	✓	✓✓		21								
1615	max	45	✓ 22	✓✓												✓		22								
1616	max/20	20	✓ 23	✓✓										✓	✓	✓		23		✓	✓	✓	✓			
1617		5	✓ 24	✓✓										✓	✓	✓	✓	24		2	✓	✓	✓	✓		

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

Comments:

OR every ~25m if not clear

dribble - top seal not sealed

<u>time</u>	<u>code</u>	<u>lat</u>	<u>long</u>	<u>bottom</u>	<u>max depth</u>
3:06	BE	71°47.261	131°53.848	1141	
338	BO	71°47.245	131°53.924		1123
	EN				

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Cast # 72 UTC Date (ddmmmyyyy) 19 Aug 2008 Ice Coverage /10 Water Depth(below hull) 2091 m
Station CB-316 UTC Time 2035 In Air pressure (before/after) -77 / -87 Sound Speed 1479
GTD File 200830-072 Lat (N) 72 21.878 Lon (W) 133 57.731 CTD Operator SZ

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-14 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	129	Cs-137
1570	Bot-5	2074	1	✓✓	✓	9054, 7201	③	320, 118, 425	4.4									1		②	②					
1	2000	2000	2	✓✓	✓	7222	✓	315	4.4								✓	2			✓	✓				
2	1500	1500	3	✓✓	✓	9024	✓	124	4.3									3								
3	1000	1000	4	✓✓	✓	9837	✓	112	4.0					✓	✓			4								
4	800	800	5	✓✓	✓	7433	✓	319	3.8					✓	✓			5								
5	600	600	6	✓✓	✓	1224	②	5, 111	3.6									6								
6	500	500	7	✓✓	✓	9061	✓	309	3.9					✓	✓			7								
7	400	415	8	✓✓	✓✓	7383, 7352	✓	116	3.2					✓	✓			8								
8	400	400	9	✓✓	✓	7488		11	3.2									9								
9	34.8	377	10	✓✓				106	3.8									10								
10	34.7	315	11	✓✓				426	3.8									11								
1	34.6	280	12	✓				128	3.9								✓	12								
2	34.4	240	13	✓✓	✓✓	7353, 410		20	3.8					✓	✓		✓	13			✓	✓	✓			
3	34.0	201	14	✓✓	✓	7223		110	4.3					✓	✓		✓	14			✓					
4	33.5	179	15	✓✓				115	5.3									15			✓					
5	33.1	162	16	✓✓	✓	7417		418	4.9					✓	✓		✓	16								
6	32.9	150	17	✓✓				112	5.4					✓	✓			17								
7	32.6	130	18	✓✓				103	5.3								✓	18								
8	32.3	112	19	✓✓	✓	7475	✓	103	4.5					✓	✓		✓	19								
9	7max	85	20	✓✓			②	424, 306	5.1			✓				✓	✓	20	✓				✓	✓		
90	chl	70	21	✓✓			✓	304	4.9			✓		✓	✓	✓	✓	21	✓				✓	✓		
1	7max	40	22	✓✓			✓	120	4.7			✓				✓	✓	22	✓							
2	7max/20	18	23	✓✓			✓	121	4.2			✓		✓	✓	✓	✓	23	✓		✓					
3		5	24	✓✓	✓	7332	✓	109	1.9			✓		✓	✓	✓	✓	24	✓	②	✓	✓	✓			

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

* please RUN at least bottom 2 Niskins in duplicate to show depthed layer

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Cast # 71

Station CB-29

GTD File 200830-71

UTC Date (ddmm/yyyy) 19 10 2008

UTC Time 10:26

Lat (N) 71 59.986

Ice Coverage 0-10

In Air pressure (before/after) -0.72, -0.88

Lon (W) 139 59.952

Water Depth(below hull) 2690 m

Sound Speed 1479

CTD Operator CF/WB

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-14 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Ce-137
1546	Bot 10	2670	✓1	✓✓			③	320,304,120	4.3									1		②	✓✓					
1547		2500	✓2	✓✓	✓✓	7222,7332	✓	118	4.2								✓	2	W			✓	✓			
1548		2000	✓3	✓✓				425	4.2									3								
1549		1500	✓4	✓✓	✓	9054		315	4.1									4								
1550	1380	1000	✓5	✓✓				124	4.1									5								
1551		1000	✓6	✓✓	✓	7475		113	3.7					✓✓	✓			6								
1552		800	✓7	✓✓		9024		319	3.5					✓✓	✓			7								
1553		600	✓8	✓✓		7488		5	2.3					✓✓	✓			8								
1554		500	✓9	✓✓		9837		111	3.2									9								
1555	Tmax	418	✓10	✓✓	✓	7433,7383		309	3.1					✓✓	✓			10	✓✓			✓	✓			
1556	34.75	353	✓11	X✓	✓	1224	✓	116	3.2								✓	11								
1557	34.6	300	✓12	✓✓	✓	7417	②	11,121	3.6									12	W			✓	✓			
1558	34.4	265	✓13	✓✓	✓	9061	✓	106	3.8					✓✓	✓			13								
1559	34	228	✓14	✓✓	✓	7352		426	4.6					✓✓	✓			14								
1560	33.7	213	✓15	✓✓				128	5.0								✓	15								
1561	33.4	201	✓16	✓✓				20	5.2									16								
1562	33.1	190	✓17	W	✓✓	7353,7201		110	5.2					X✓	②			17								
1563	32.9	179	✓18	✓✓				115	5.3					✓✓	②			18					✓	✓		
1564	32.6	158	✓19	✓✓				418	5.3					✓✓	②			19								
1565	32.3	133	✓20	✓✓	✓	410		112	5.1					✓✓	②			20								
1566	Tmax	96	✓21	✓✓			✓	103	4.4					②	②			21								
1567	Cmax	76	✓22	✓✓			②	108,109	4.1					②	②			22								
1568	Tmax/20	20	✓23	✓✓			✓	424	4.4					✓✓	✓			23								
1569		5	✓24	X✓			✓	306	3.0					②	②			24	✓✓	②	W	✓	✓			

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

#5 miss thread

1 set to be analyzed at IOS
2 sets, all to be frozen

CARDO
dipping
v - knob loose

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Full Geochem

Cast # 70

Station Sta. A

GTD File 200830-70

UTC Date (ddmmmyyyy) 15 08 2008

UTC Time 15:43

Lat (N) 72 36.050

Ice Coverage 0 / 10

In Air pressure (before/after) -0.15 / -0.85

Lon (W) 144 42.001

Water Depth(below hull) 3428 m

Sound Speed 1479

CTD Operator CHW/B

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-14 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Ce-137
1522	Bottom	3419	✓1	✓✓	✓	7383	✓	24	4.5			✓	✓✓					1		(3)	✓✓					
1523		3100	✓2	✓✓		7637	(3)	624	4.5			✓					✓	2	✓			✓	✓			
1524		2500	✓3	✓✓		1224	✓	105	4.5									3								
1525		2000	✓4	✓✓		7332		417	4.5				✓					4								
1526		1500	✓5	✓✓		9069		125	4.2									5			✓				✓	
1527		1000	✓6	✓✓		9061		413	4.0				✓	✓	✓			6							✓	
1528		800	✓7	✓✓	✓	7352, 9054		4526	3.6				✓	✓	✓			7							✓	
1529		500	✓8	✓✓		7357		4528	3.6					✓	✓			8							✓	
1530	Tmax	466	✓9	✓✓	✓	7417, 7201		19	3.4				✓	✓	✓			9	✓			✓	✓		✓	
1531		400	✓10	✓✓		7475		310	3.4									10								
1532	34.7	352	✓11	✓✓		7629	✓	303, 101	3.6									11								
1533	34.6	319	✓12	✓✓		7353		127	3.7								✓	12	✓			✓	✓		✓	
1534	34.4	284	✓13	✓✓		9024		12	4.2					✓	✓	✓		13							✓	
1535	34	245	✓14	✓✓		9047		422	4.7				✓	✓	✓			14								
1536	33.5	219	✓15	✓✓		413		16	3.0				✓✓					15			✓				✓	
1537	33.1	195	✓16	✓✓	✓	7408, 9114		12	4.9				✓	✓	✓	✓		16	✓							* tight
1538	32.9	178	✓17	✓✓		7676		13	5.2				✓	✓	✓			17								* tight
1539	32.6	152	✓18	✓✓		7223		4	5.0				✓					18				✓	✓			
1540	32.3	129	✓19	✓✓		9837		23	4.8				✓	✓	✓	✓	✓	19								
1541	Tmax	89	✓20	✓✓		7552		411	4.0				✓					20								
1542	Cmax	66	✓21	✓✓		7433		122	3.8				✓	✓	✓	✓		21								
1543	Tmin	41	✓22	✓✓		7222		22	4.0				✓					22								
1544	Tmax 26	20	✓23	✓✓		7504	✓	7	3.6				✓	✓	✓	✓		23								* tight
1545		5	✓24	✓✓	✓	858	✓	27	0.8			✓✓	✓✓	✓	✓		✓	24	✓	(3)	✓	✓	✓			* tight

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

↑
19

↑
8

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Cast # 69

Station Sta A

GTD File 200830-69

UTC Date (ddmmmyyyy) 15 08 2008

UTC Time 14:06

Lat (N) 72 36-047

Ice Coverage 0/10

In Air pressure (before/after) -0.66 / -0.78

Lon (W) 144 41.796

Water Depth(below hull) 3428 m

Sound Speed 1479

CTD Operator EF/W.D.

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-14 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137
1498		1000	✓1															1								
1499			✓2															2								
1500			✓3															3								
1501			✓4															4			✓					
1502		800	✓5															5								
1503			✓6															6								
1504			✓7															7								
1505			✓8															8			✓					
1506		600	✓9															9								
1507			✓10															10								
1508			✓11															11								
1509			✓12															12			✓					
1510		400	✓13															13								
1511			✓14															14								
1512			✓15															15								
1513			✓16															16			✓					
1514		300	✓17															17								
1515			✓18															18								
1516			✓19															19								
1517			✓20															20			✓					
1518		5	✓21															21								
1519			✓22															22								
1520			✓23															23								
1521			✓24															24			✓					

Bottle Integrity: First test lower petcock then test top valve. Check means pass, X means failed.

Comments:

30 sec, 1 up 2 down 1 up 30 sec, close at each depth

Down to 1000m

← no water in bottle 24

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Cast # 68 UTC Date (ddmmmyyyy) 15 | 08 | 2008 Ice Coverage <1 /10 Water Depth(below hull) 3221 m
Station CB-27 UTC Time 0513 In Air pressure (before/after) -0.6 / -0.80 Sound Speed 1479 m/s
CTD File 200830-068 Lat (N) 78° 0.037' Lon (W) 139° 59.878' CTD Operator KS/MD/KY/WW

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DTG-14 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137
1474	Bot-20	3203	✓ 1	VV			③	320,103/26	4.5									1		②	VV					
1475		3100	✓ 2	VV	✓	7353	✓	304	4.3								✓	2	✓			✓	✓			
1476		2500	✓ 3	VV	✓	7504		120	4.3									3		✓						
1477		2000	✓ 4	VV				118	4.2									4								
1478		1500	✓ 5	VV	✓	410		425	4.2									5								
1479		1000	✓ 6	VV	✓	9114		315	3.8					✓	✓			6		✓						
1480		800	✓ 7	VV	✓	720	✓	124	3.7					✓	✓			7								
1481		600	✓ 8	VV	✓	7676	②	113,109	3.4									8								
1482		500	✓ 9	VV	✓	7629	✓	319	3.2					✓	✓			9								
1483	tmr	438	✓ 10	VV	✓	7223, 9066		5	3.0					✓	✓			10	✓			✓	✓			
1484		400	✓ 11	VV	✓	9047		111	3.1									11								
1485	34.75	350	✓ 12	VV				309	3.2									12								
1486	34.6	316	✓ 13	VV	✓	8980		116	3.4								✓	13	✓			✓	✓			
1487	34.4	279	✓ 14	VV	✓	7166		11	3.8					✓	✓			14		✓						
1488	34.0	237	✓ 15	VV	✓	7475		121	4.5					✓	✓		✓	15								
1489	33.5	217	✓ 16	VV				106	5.3									16								
1490	33.1	197	✓ 17	VV	✓	7488, 8978		426	5.5					②	②			17								
1491	32.9	180	✓ 18	VV				128	5.5					②	②			18		✓						
1492	32.6	153	✓ 19	VV			✓	20	5.4					②	②			19								
1493	32.3	127	✓ 20	VV	✓	9024	②	110, 424	5.3					②	②	✓	✓	20			✓					
1494	tmr	85	✓ 21	VV			✓	115	4.4					②	②	✓		21								
1495	tmr	66	✓ 22	VV				418	4.3					②	②	✓	✓	22								
1496	20/4m	20	✓ 23	VV				112	4.4					②	②	✓		23			✓	✓	✓			
1497		5	✓ 24				✓	108	3.3					②	②	✓	✓	24		②	✓	✓	✓			

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

Comments:

↑

17

7

Rosette Log for IOS Cruise ID 2008-30

Ship: *CCGS Louis S St-Laurent*

Cast # 67

UTC Date (ddmmmyyyy) 14/15 Aug 2008

Ice Coverage 1/10

Water Depth(below hull) 3127 m

Station CB-22

UTC Time 23:11

In Air pressure (before/after) 1 -0.8

Sound Speed 1479

CTD File 200830-067

Lat (N) 73 27.001

Lon (W) 137 59.990

CTD Operator sz/mo

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-14 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	129	CS-137
1450	bot-5	3112	✓1	✓✓			③	428,328,306	4.3									1		②	✓✓					
1451		3070	✓2	✓✓			✓	2	4.3								✓	2	✓	✓	✓	✓	✓			
1452		2500	✓3	✓✓			✓	403	4.3									3		✓	✓					
1453		2000	✓4	✓✓			✓	902	4.2									4		✓						
1454		1500	✓5	✓✓	✓	9024	✓	102	4.1									5								
1455		1000	✓6	✓✓	✓	1224	✓	401	3.8					✓	✓			6								
1456		800	✓7	✓✓	✓	7332	②	412,327	3.5					✓	✓			7			✓					
1457		500	✓8	✓✓	✓	9069	✓	407	3.3					✓	✓			8		✓						
1458	tmnt	418	✓9	✓✓	✓	9061	✓	9	3.2					✓	✓			9	✓			✓	✓			
1459		408	✓10	✓✓			✓	305	3.2									10								
1460	34.75	340	✓11	✓✓			✓	107	3.3									11								
1461	34.6	307	✓12	✓✓			✓	514	3.5								✓	12	✓			✓	✓			
1462	34.4	267	✓13	✓✓	✓	7352	✓	308	3.8					✓	✓			13				✓	✓			
1463	34.0	224	✓14	✓✓	✓✓	9054,7383	✓	316	4.4					✓	✓			14								
1464	33.5	201	✓15	✓✓			✓	314	4.8									15								
1465	33.1	185	✓16	✓✓	✓	7357	✓	17	4.7					✓	✓		✓	16								
1466	32.9	175	✓17	✓✓			✓	104	4.9					✓	✓			17								
1467	32.6	154	✓18	✓✓			✓	311	4.9									18								
1468	32.3	128	✓19	✓✓	✓	7637	✓	117	4.7					✓	✓		✓	19			✓					
1469	tmx	84	✓20	✓✓			✓	119	3.8							✓		20		✓						
1470	chlmax	74	✓21	✓✓			✓	318	3.8					✓	✓	✓✓		21								
1471	tmix	61	✓22	✓✓			②	325,405	4.8							✓		22								
1472	tmx/20	10	✓23	✓✓			✓	8	3.9					✓	✓	✓		23								
1473		5	✓24	✓✓			✓	3	2.4					✓	✓	✓	✓	24	✓	②	✓	✓	✓			

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

Comments:

↑
10

← slowed to 30
at 300m
instead of
400m

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Deep Water + Calibration Points

Cast # 66

Station CB-21

GTD File 200830-066

UTC Date (ddmmmyyyy) 14 08 2008

UTC Time 11:24

Lat (N) 74 0-607

Ice Coverage 0-2/10

In Air pressure (before/after) 0.70 / -0.69

Lon (W) 136 56.942

Water Depth(below hull) 3506 m

Sound Speed 1479

CTD Operator EF/WB

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-14 (WHOI)	DO-14 (WHOI)	DIC	DIC-13 (K. Brown)	EDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137
1433		2000	✓ 1*	✓			✓	320, 120	4.6									1		②	✓					
1434		1900	✓ 2	✓			✓	126	4.6									2								
1435		1800	✓ 3*	✓			✓	304, 124	4.6									3			✓					
1436		1700	✓ 4	✓				118	4.6									4								
1437		1600	✓ 5	✓				425	4.3									5								
1438		1500	✓ 6*	✓			✓	315, 309	4.5									6			✓					
1439		1400	✓ 7	✓				113	4.4									7								
1440		1300	✓ 8	✓				109	4.9									8								
1441		1200	✓ 9	✓				319	4.3									9								
1442		1100	✓ 10	✓				5	4.3									10								
1443		1000	✓ 11*	✓			✓	111, 11	4.2									11			✓					
1444		216	✓ 12*	✓			✓	116, 106	5.3									12			✓					
1445		195	✓ 13*	✓			✓	108, 128	5.4									13			✓					
1446		79	✓ 14*	✓			✓	426, 110	4.4									14			✓					
1447		40	✓ 15*	✓			✓	20, 418	4.8									15			✓					
1448		18	✓ 16*	✓			✓	115	4.2									16			✓					
1449		5	✓ 17*	✓			✓	103, 112	3.4									17		②	✓					
			18															18								
			19															19								
			20															20								
			21															21								
			22															22								
			23															23								
			24															24								

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

Comments: OK to descend + ascend @ 60m/min but on 'x' bottles, follow time mixing procedure

* 30 sec, 1 up, 2 dn, 1 up, 30 sec, close

All Nut samples go to Fridge (not freezing)

54 - bottle 6d7 triggered at same depth - hence 18 bottles are triggered

duplicate oxy + sal on 'x' bottles

Rosette Log for IOS Cruise ID 2008-30

Ship: *CCGS Louis S St-Laurent*

Cast # 65

UTC Date (ddmmmyyyy) 14 Aug 2008

Ice Coverage 0/10

Water Depth(below hull) 3519 m

Station CB-21

UTC Time 0349

In Air pressure (before/after) -0.51 - 7

Sound Speed 1479

CTD File 200830-065

Lat (N) 74 1.944

Lon (W) 140 0.150

CTD Operator SZ/MD/WW

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC44 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137	SOOT	
1409	Bot-20		1	✓✓			✓	428	4.6			✓✓	✓✓						1		③	✓						✓
1410		3100	2	✓✓	✓	9837, 7504	✓	828	4.5			①	②				✓		2	✓			✓	✓			✓	
1411		2500	3	✓✓	✓	7552	③	306, 325, 421	4.4										3							✓		
1412		2000	4	✓✓		9024	✓	2	4.4				✓						4							✓		
1413		1500	5	✓✓		1224		403	4.2										5							✓		
1414		1000	6	✓✓		7332		402	4.0				✓	✓	✓				6							✓		
1415		500	7	✓✓		9069		107	3.8					✓	✓				7							✓		
1416		600	8	✓✓		9061		401	3.5										8			✓				✓		
1417		500	9	✓✓		7352		412	3.2				✓	✓	✓				9	✓			✓	✓		✓		
1418	fmax	430	10	✓✓	✓	9054, 7384		327	3.1					✓	✓				10							✓		
1419		400	11	✓✓		7357		407	3.0										11							✓		
1420	34.75	350	12	✓✓		7222	✓	9	3.2										12							✓		
1421	34.6	312	13	✓✓		7475	②	305, 405	3.3								✓		13	✓			✓	✓		✓		
1422	34.4	275	14	✓✓		7488	✓	107	3.8						✓	✓			14							✓		
1423	34	237	15	✓✓	✓	8978		14	4.3						✓	✓			15							✓		
1424	33.5	217	16	✓✓	✓	7637		308	4.5										16							✓		
1425	33.1	196	17	✓✓	✓	9066		316	5.2				✓		✓	✓			17							✓		
1426	32.9	179	18	✓				314	5.5						✓	✓			18				✓	✓	✓			
1427	32.6	153	19	✓✓	✓	7417		17	5.2				✓						19							✓		
1428	32.3	128	20	✓✓	✓	7433		104	4.4					✓	✓	✓			20							✓		
1429	fmax	80	21	✓✓				311	4.5							✓			21							✓		
1430	fmin	40	22	✓✓	✓✓	9047, 8980		117	3.5				✓		✓	✓	✓		22							✓		
1431	32.10	20	23	✓✓			✓	119	4.8							✓			23							✓		
1432		5	24	✓✓	✓	7166	②	318, 3	2.8				✓	✓	✓	✓	✓		24	✓	③	✓	2	✓		✓		

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

Comments:

Labels all printed 21 w/ error: *21 w/ error: Niskin 1 = 1408 instead of 1409*
All labels corrected

NO DUP

*2 fresh
1 frozen*

*← Gerty's
sample for
M-L T. mmm
was*

Rosette Log for IOS Cruise ID 2008-30 Ship: CCGS Louis S St-Laurent

Cast # 64 UTC Date (ddmmmyyyy) 13.08.2008 Ice Coverage 0/10 Water Depth(below hull) 3693 m
Station CB-19 UTC Time 07.47 In Air pressure (before/after) -0.71/-0.74 Sound Speed 1479
GTD File 200830- Lat (N) 74 17.958 Lon (W) 143 18.367 CTD Operator EF/NB

LABELS MADE CAT CHOCOLATES

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-14 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	P-129	Cs-137
1385	bot	3688	✓ 1	✓✓			③ 220.115/121		4.4									1		②	✓✓					
1386		3100	✓ 2	✓✓	✓	7637	✓ 120.		4.4								✓	2	✓	✓	✓	✓				
1387		2500	✓ 3	✓✓	✓	9024	✓ 126.		4.4									3								
1388		2000	✓ 4	✓✓	✓	8978	② 304.103		4.2									4								
1389		1500	✓ 5	✓✓	✓	7352, 9061	✓ 124.		4.1									5								
1390		1000	✓ 6	✓✓	✓	9066	✓ 118.		3.7					✓	✓			6								
1391		800	✓ 7	✓✓	✓	9054	✓ 425		3.6					✓	✓			7			✓					
1392		500	✓ 8	✓✓	✓	7433	✓ 315		3.3					✓	✓			8								
1393	fm-y	454	✓ 9	✓✓	✓	7383	✓ 309.		3.1					✓	✓			9	✓			✓	✓			
1394		400	✓ 10	✓✓	✓	9047, 7357	✓ 113.		3.0									10		✓						
1395	34.75	355	✓ 11	✓✓	✓	1224	✓ 109.		3.2									11								
1396	34.6	318	✓ 12	✓✓			✓ 319		3.3								✓	12	✓			✓	✓			
1397	34.4	280	✓ 13	✓✓	✓	8980	✓ 8		3.8					✓	✓		✓	13								
1398	34	244	✓ 14	✓✓	✓	7332	✓ 111.		4.5					✓	✓		✓	14								
1399	33.5	224	✓ 15	✓✓			✓ 409		4.8									15								
1400	33.1	202	✓ 16	✓✓	✓	7166	✓ 116.		4.6					✓	✓		✓	16								
1401	32.9	184	✓ 17	✓✓			✓ 106		5.4					✓	✓			17								
1402	32.6	155	✓ 18	✓✓			② 108.112		5.4								✓	18		✓	✓					
1403	32.3	129	✓ 19	✓✓	✓	9069	✓ 128		5.2					✓	✓			19								
1404	fm-y	89	✓ 20	✓✓			✓ 126		4.5					✓	✓			20								
1405	CHex	66	✓ 21	✓✓			✓ 110		4.5					✓	✓	✓		21								
1406	Trim	51	✓ 22	✓✓			✓ 20		4.6					✓	✓	✓		22								
1407	fm-y	21	✓ 23	✓✓			✓ 418		4.8					✓	✓	✓		23								
1408		5	✓ 24	✓✓	✓	7222	✓ 424		4.3			③		✓	✓	✓	✓	24	✓	②	✓	✓	✓			

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

Comments:

↑
#17

-dipping

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Cast # 63

Station C13-18

CTD File 200830-063

UTC Date (ddmmmyyy) 12 | 08 | 2008

UTC Time 0009

Lat (N) 75° 0.024'

Ice Coverage <1 /10

In Air pressure (before/after) -0.61 - 0.9

Lon (W) 140° 0.010'

Water Depth(below hull) 3620 m

Sound Speed 1479 m/s

CTD Operator KS/MD/KY/WW

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-44 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	CS-137
1361	Bot		1	✓			③	24 22.8	4.6									1		③	✓					
1362		3100	2	✓			✓	6	4.6					✓			✓	2	✓		✓	✓				
1363		2500	3	✓	✓	7475		114	4.6					✓				3								
1364		2000	4	✓	✓			122	4.5									4								
1365		1500	5	✓	✓	7488		105	4.4									5								
1366		1000	6	✓	✓	7223		417	4.1					✓	✓			6								
1367		800	7	✓	✓	9114		125	3.9					✓	✓			7			✓					
1368		500	8	✓	✓	7629 7417		413	3.4					✓	✓			8								
1369	4m-x	434	9	✓	✓	7353		26	3.4					✓	✓			9	✓			✓	✓			
1370		400	10	✓	✓			28	3.4									10								
1371	34.75	345	11	✓	✓	7201		19	3.5									11								
1372	34.6	306	12	✓	✓		✓	310	3.8								✓	12	✓			✓	✓			
1373	34.4	267	13	✓	✓	7410	(2)	101.27	4.2					✓	✓		✓	13			✓	✓	✓			
1374	34	230	14	✓	✓	9837	✓	303	4.8					✓	✓		✓	14								
1375	33.5	211	15	✓	✓			127	5.0								✓	15								
1376	33.1	194	16	✓	✓	7676		12	5.1					✓	✓		✓	16								
1377	32.9	178	17	✓	✓			422	5.3					✓	✓			17				✓	✓			
1378	32.6	152	18	✓	✓			16	5.2								✓	18								
1379	32.3	127	19	✓	✓	4504, 7552		15	4.8					✓	✓		✓	19								
1380	4m-a	88	20	✓	✓			13	4.2							✓	✓	20								
1381	chl max	71	21	✓	✓			4	4.1							✓	✓	21								
1382	4m	45	22	✓	✓		✓	23	4.4					✓	✓	✓	✓	22								
1383	4m	20	23	✓	✓		②	411 407	3.9					✓	✓	✓	✓	23								
1384		5	24	✓	✓		✓	123	3.3			✓		✓	✓	✓	✓	24	✓	③	✓	✓	✓			

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

Comments:

↑

13

↑

2 Fresh
1 Frozen

12

Rosette Log for IOS Cruise ID 2008-30

Ship: *CCGS Louis S St-Laurent*

Only to 2500m!

Cast # 62

UTC Date (ddmmmyyy) 12/08/2008

Ice Coverage 2/10

Water Depth(below hull) 3744 m

Station CE-1

UTC Time 09.06

In Air pressure (before/after) -0.83 -0.84

Sound Speed 1479

CTD File 200830-062

Lat (N) 76 0-19.4

Lon (W) 142 26.843

CTD Operator EF/wr

2 hr
cast

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-14 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Ce-137
1337		2500	1	✓	✓	9024	③	520, 110, 313	4.6								✓	1	✓	②	✓	✓	✓			
1338		2000	2	✓	✓	1224	✓	115	4.6									2								
1339		1800	3	✓	✓		✓	121	4.5									3								
1340		1500	4	✓	✓	7629, 9047	✓	120	4.4									4								
1341		1200	5	✓	✓			126	4.3									5			✓	✓				
1342		1000	6	✓	✓	8978		304	4.2					✓	✓			6								
1343		800	7	✓	X	7417		103	4.0					✓	✓			7								
1344		600	8	✓	✓	7252		124	3.6									8			✓					
1345		500	9	✓	✓	7353	✓	118	3.4					✓	✓			9								
1346	Emox	425	10	✓	✓	9061	②	425, 20	3.3					✓	✓			10	✓			✓	✓			
1347		400	11	✓	✓	7201	✓	315	3.2									11								
1348	34.75	332	12	✓	✓	7475, 7383		209	3.3									12	✓			✓	✓			
1349	34.6	292	13	✓	✓			113	3.7								✓	13			✓					
1350	34.4	253	14	✓	✓	7222		109	4.3					✓	✓		✓	14								
1351	34	214	15	✓	✓	7488		319	5.0					✓	✓		✓	15								
1352	33.5	195	16	✓	✓			5	5.0								✓	16				✓	✓			
1353	33.1	181	17	✓	✓	7357		111	5.2					✓	✓		✓	17			✓	✓				
1354	32.9	169	18	✓	✓			409	5.1					✓	✓			18								
1355	32.6	149	19	✓	✓			116	5.2								✓	19								
1356	32.3	126	20	✓	✓	7223		106	5.0					✓	✓	✓		20								
1357	Emox	88	21	✓	✓			108	5.0					✓	✓	✓		21								
1358	cherna	62	22	✓	✓		✓	112	5.4							✓		22								
1359	Emox	17	23	✓	✓		②	128, 418	5.0					✓	✓	✓		23								
1360		5	24	✓	✓		✓	426	4.9			✓		✓	✓	✓	✓	24	✓	②	✓	✓	✓	✓		

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

Comments:

↑
16 w/
2*

↑
1 fresh + 5 dups
1 frozen

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

> we are in a large open water pool. Otherwise, there has been 8-10/10 ice on the way to this station.

Cast # 61 UTC Date (ddmmmyyyy) 12 | 08 | 2008 Ice Coverage 6-7/10 Water Depth(below hull) 3703 m
Station CB-17 UTC Time 0222 In Air pressure (before/after) >0.6 Sound Speed 1479 m/s
CTD File 200830-061 Lat (N) 75° 57.034' Lon (W) 140° 4.934' CTD Operator KS/MD/KY/W

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-14 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	P-129	Cs-137
1313	Bot		1	✓			③	428, 117, 11	4.5									1		②	✓					
1314		3100	2	✓			✓	320	4.5					✓	✓		✓	2	✓	✓	②	✓	✓			
1315		2500	3	✓			✓	306	4.4					✓	✓			3			✓					
1316		2000	4	✓	✓	7332	✓	325	4.5									4		✓						
1317		1500	5	✓			✓	421	4.3									5								
1318		1000	6	✓	✓	8980	②	2, 119	4.0					✓	✓			6								
1319		800	7	✓	✓	7766, 7552	✓	403	3.8					✓	✓			7								
1320		500	8	✓	✓	7676	✓	402	3.4					✓	✓			8								
1321		450	9	✓	✓	7637	✓	401	3.2									9								
1322	tmix	425	10	✓	✓	9069, 9114		401	3.2					✓	✓		✓	10	✓			✓	✓			
1323	34.8	380	11	✓	✓	9054		412	3.3								✓	11								
1324	34.6	301	12	✓	✓			322	3.7									12								
1325	34.4	268	13	✓	✓	7433		407	4.2					✓	✓		✓	13	✓			✓	✓			
1326	34	217	14	✓	✓	7509		9	4.7					✓	✓		✓	14	✓			✓	✓			
1327	33.5	198	15	✓	✓			305	4.7									15								
1328	33.1	184	16	✓	✓	9066		405	4.9					✓	✓		✓	16	✓		②	✓	✓			
1329	32.9	174	17	✓	✓			107	4.7					✓	✓			17			✓					
1330	32.6	152	18	✓	✓			14	5.0									18								
1331	32.3	128	19	✓	✓	4110		308	4.9				✓	✓	✓	✓	✓	19	✓	✓		✓	✓			
1332	tmix	93	20	✓	✓			316	4.4					✓	✓	✓	✓	20	✓			✓	✓			
1333	tmix	59	21	✓	✓			314	4.8				✓			✓	✓	21	✓			✓	✓			
1334	Chl max	40	22	✓	✓			17	4.5							✓	✓	22	✓			✓	✓			
1335	tmix	17	23	✓			✓	8	4.3					✓	✓	✓	✓	23	✓	✓		✓	✓			
1336		5	24	✓			②	311, 318	4.0			✓	✓	✓	✓	✓	✓	24	✓	②	✓	✓	✓			

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

← Fill cage w/salts
②4

↑
1 Fresh w/ 4 dups
1 frozen

~~1712~~
CB-17 10pm
CE-1 ~ 3am

* CB 18 ~ 8pm → 3am

Rosette Log for IOS Cruise ID 2008-30 Ship: CCGS Louis S St-Laurent

Cast # ITP-26 UTC Date (ddmmmyyyy) 12 Aug 2008 Ice Coverage /10 Water Depth(below hull) m
Station ICE CAMP last CHANCE UTC Time 11 am local (mountain) In Air pressure (before/after) /
GTD File 200830- Lat (N) 75°54.481 N Lon (W) 140°35.344 W
(Next to CB17) GTD Operator
Samplers: Alice, Mike, Brian, Sarah, Kristina

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-14 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137
8027	Ice/Water	1.5m	1			site 1 (0m)							✓✓			✓✓		1	✓✓	✓✓	✓✓	✓✓				
8028	top	core 1	2			} site 1 (0m)							✓					2	✓		*	✓				
8029	mid	core 1	3										✓					3	✓		*	✓				
8030	mid	core 1	4										✓					4	✓		*	✓				
8031	bottom	core 1	5										✓					5	✓	✓	*	✓				
			6															6								
			7															7								
			8															8								
			9															9								
			10															10								
			11															11								
			12															12								
			13															13								
			14															14								
			15															15								
			16															16								
			17															17								
			18															18								
			19															19								
			20															20								
			21															21								
			22															22								
			23															23								
			24															24								

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

* sal measured
w portable
salinometer

Rosette Log for IOS Cruise ID 2008-30 Ship: CCGS Louis S St-Laurent

Cast # 60 UTC Date (ddmmmyyyy) 11/08/2008 Ice Coverage 4/10 Water Depth(below hull) 2471 m
Station PP-5 UTC Time 09:51 In Air pressure (before/after) -0.88/-0.88 Sound Speed 1479
CTD File 200830-060 Lat (N) 76 5.033 Lon (W) 130 57.609 CTD Operator EF/WB ~2500m

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-14 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137	CARBO
1289	Bottom	2454	1	✓✓	✓	7357	(3)	106.2327	4.2									1	✓	(3)	✓	✓	✓		✓		
1290		2400	2	✓✓	✓	9114.7637	✓	22	4.1								✓	2			✓				✓		
1291		2000	3	✓✓	✓	7201	(2)	1.411	4.0									3							✓		
1292		1500	4	✓✓	✓	7475	✓	6	3.8									4							✓		
1293		1200	5	✓✓				114	3.9									5									
1294		1000	6	✓✓	✓	7354		122	3.6					(X)	(X)			6	✓			✓	✓		✓		
1295		800	7	✓✓	✓	7383		105	3.4					(X)	(X)			7	✓			✓	✓		✓		
1296		600	8	✓✓	✓	9054		417	3.2					(X)	(X)			8							✓		
1297		500	9	✓✓				125	3.1					(X)	(X)			9	✓			✓	✓		✓		
1298		450	10	✓✓	✓	7433, 7222		26	3.1					(X)	(X)			10									
1299	tmax	380	11	✓✓	✓	7488		413	2.9					(X)	(X)			11	✓			✓	✓		✓		
1300	34.75	302	12	✓✓	✓	7504	✓	28	2.9								✓	12							✓		
1301	34.6	257	13	✓✓	✓	7332	(2)	19.24	2.9					(X)	(X)		✓	13							✓		
1302	34.4	218	14	✓✓			✓	310	3.6					(X)	(X)		✓	14							✓		
1303	34	172	15	✓✓	✓	9066		161	3.8					(X)	(X)		✓	15							✓		
1304	33.5	150	16	✓✓				7	4.7					(X)	(X)		✓	16									
1305	33.1	131	17	✓✓	✓	9047		303	4.4					(X)	(X)		✓	17									
1306	32.9	124	18	✓✓				127	4.2					✓	✓			18									
1307	32.6	116	19	✓✓				12	4.4								✓	19									
1308	32.3	108	20	✓✓	✓	8978, 7552		422	4.2					✓	✓	✓		20							✓		
1309	tmax	63	21	✓✓				16	3.9					✓	✓	✓		21									
1310	tmin	17	22	✓✓	✓	7417		17	4.0									22							✓		
1311	tmax	19	23	✓✓				13	3.6					✓	✓			23									
1312		5	24	✓✓			✓	4	4.0			(X)		✓	✓		✓	24	✓	(3)	✓	✓	✓		✓		

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

20

24 9

2 fresh
1 frozen

15

12

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Labels are printed

C S

Cast # 59

Station PP5

CTD File 200830-

UTC Date (ddmmmyyyy) 11 08 2008

UTC Time 08:21

Lat (N) 76 05.226

Ice Coverage 4/10

In Air pressure (before/after) -0.801

Lon (W) 136 52.525

Water Depth(below hull) 2476 m

Sound Speed 1479

CTD Operator EF/WB

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-14 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	OT8	Ba	NH4	I-129	Cs-137
1269		1000	1	✓														1								✓
1270			2	✓														2								
1271			3	✓														3								
1272			4	✓														4			✓					
1273		800	5	✓														5								
1274			6	✓														6								
1275			7	✓														7								
1276			8	✓														8			✓					
1277		600	9	✓														9								
1278			10	✓														10								
1279			11	✓														11								
1280			12	✓														12			✓					
1281		400	13	✓														13								
1282			14	✓														14								
1283			15	✓														15								
1284			16	✓														16			✓					
1285		300	17	✓														17								
1286			18	✓														18								
1287			19	✓														19								
1288		↓	20	✓														20			✓					✓
			21															21								
			22															22								
			23															23								
			24															24								

Down to 1000

Bottle integrity: First test lower petcock then test top valve. Check means pass, 'x' means failed.
Comments: MIXING. 30 Secs, UP 1, DOWN 2, UP 1, 30 Secs

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Cast # 58 UTC Date (ddmmmyyyy) 11/08/2008 Ice Coverage 1-2/10 - we were through 8-9/10 ice up to this stn. breaking Water Depth(below hull) 3059 m

Station PP-6 UTC Time 0245 In Air pressure (before/after) -0.68/-0.82 Sound Speed 1479 m/s.

CTD File 200830-058 Lat (N) 76° 15.955' Lon (W) 132° 31.316 CTD Operator KS/MD/

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-14 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	CS-137	CARBO
1245	Bot-10	3037	✓ 1	✓✓	✓	7357	✓	428	4.5									1		②	✓✓				✓		
1246		2500	✓ 2	✓✓	✓	9069, 8878		117	4.5								✓	2	✓	✓		✓	✓				
1247		2000	✓ 3	✓✓		7504		11	4.5									3									
1248		1500	✓ 4	✓✓		7166	(3)	328.17, 104	4.4									4									
1249		1000	✓ 5	✓✓		8980		306	4.1					✓	✓			5									✓
1250		800	✓ 6	✓✓	✓	7629, 9061		325	3.8					✓	✓			6									✓
1251		600	✓ 7	✓✓		7412		421	3.6									7							✓		
1252		500	✓ 8	✓✓	✓	7223	(2)	2.8	3.3					✓	✓			8			✓				✓		✓
1253		450	✓ 9	✓✓	✓	7676		119	3.3									9									✓
1254	Tmax	369	✓ 10	✓✓	✓✓	9837, 1224		403	3.0					✓	✓			10	✓			✓	✓		✓		✓
1255	34.75	315	✓ 11	✓✓	✓	9024		402	3.1									11							✓		
1256	34.6	277	✓ 12	✓✓	✓	7383		102	3.3									12	✓			✓	✓		✓		✓
1257	34.4	233	✓ 13	✓✓	✓	9054		401	3.8					✓	✓			13	✓	✓		✓	✓		✓		✓
1258	34	187	✓ 14	✓✓	✓	7352		412	4.5					✓	✓			14	✓			✓	✓		✓		✓
1259	33.9	174	✓ 15	✓✓				327	4.7								✓	15									✓
1260	33.4	163	✓ 16	✓✓				407	4.7									16	✓								✓
1261	33.1	154	✓ 17	✓✓	✓	41D		9	4.5					✓	✓		✓	17	✓			✓	✓				✓
1262	32.9	147	✓ 18	✓✓				305	4.7					✓	✓			18		✓							✓
1263	32.6	131	✓ 19	✓✓				405	4.5								✓	19	✓			✓	✓				✓
1264	32.3	109	✓ 20	✓✓	✓	9.066		107	4.6					✓	✓	✓		20							✓		✓
1265	Tmax	74	✓ 21	✓✓				14	4.0							✓		21									✓
1266	Tmin	55	✓ 22	✓✓	✓	9047		308	4.0					✓	✓	✓✓		22							✓		✓
1267	Tmax	13	✓ 23	✓✓			(2)	316, 115	3.0					✓	✓	✓		23									✓
1268		5	✓ 24	✓✓	✓	7552	✓	314	4.3					✓	✓	✓	✓	24	✓	②	✓	✓	✓		✓		✓

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

Comments:

21
* low priority

22

CAST 58
BE
BO
EN

lat 76° 15.955

long 152° 31.816

time (UTC) 0245

bottom 3059.

max depth

192

Rosette Log for IOS Cruise ID 2008-30

Ship: *CCGS Louis S St-Laurent*

~3500

Full biochem.

Cast # 57

UTC Date (ddmmmyyyy) 10 1 08 2008

Ice Coverage 5-8 /10

Water Depth(below hull) 3565 m

Station PP-7

UTC Time 16:18

In Air pressure (before/after) -0.741 -0.85

Sound Speed 1479 m/s

GTD File 200830-057

Lat (N) 76 32.675

Lon (W) 135 25.903

CTD Operator ET/WD/K.S.

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-11 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137	CARBO
1221	Bot-5	3560	1	✓	✓		③	320.418; 3	4.8									1		②	✓						
1222		3100	2	✓	✓	✓	✓	7475	4.8								✓	2	✓	✓		✓	✓				
1223		2500	3	✓	✓	✓	✓	9066, 7222	4.7									3									
1224		2000	4	✓	✓		✓	9047	4.7									4			✓						
1225		1500	5	✓	✓		✓	7201	4.6									5							✓	✓	
1226		1000	6	✓	✓		②	304.426	4.5					✓	✓			6							✓	✓	✓
1227		800	7	✓	✓		✓	103	4.3					✓	✓			7							✓	✓	✓
1228		600	8	✓	✓		✓	7488	4.1									8							✓	✓	✓
1229		500	9	✓	✓	✓	✓	118	4.1					✓	✓			9							✓	✓	✓
1230		450	10	✓	✓		✓	425	4.1									10								✓	✓
1231	tmx	388	11	✓	✓	✓	✓	7353	3.9					✓	✓			11	✓			✓	✓		✓	✓	✓
1232	34.75	319	12	✓	✓	✓	✓	9054	4.0									12	✓	✓					✓	✓	✓
1233	34.6	284	13	✓	✓	✓	✓	9114, 7225	4.1									13	✓		✓				✓	✓	✓
1234	34.4	242	14	✓	✓		✓	113	4.5					✓	✓			14	✓		✓				✓	✓	✓
1235	34	192	15	✓	✓	✓	✓	7433	4.9					✓	✓			15	✓			✓	✓		✓	✓	✓
1236	33.5	171	16	✓	✓		✓	123	5.1									16	✓							✓	✓
1237	33.1	160	17	✓	✓	✓	✓	7676	4.9					✓	✓			17	✓							✓	✓
1238	32.9	152	18	✓	✓		✓	111	5.0					✓	✓			18								✓	✓
1239	32.6	135	19	✓	✓		✓	409	5.0									19	✓								✓
1240	32.3	110	20	✓	✓	✓	✓	7332	5.0					✓	✓	✓		20		✓					✓	✓	✓
1241	tmx	84	21	✓	✓		✓	319	4.6									21									✓
1242	chlmet	65	22	✓	✓		②	108 110	4.8					✓	✓	✓		22		✓						✓	✓
1243	tmx	19	23	✓	✓	✓	✓	9837 7383	4.1					✓	✓	✓		23							✓	✓	✓
1244		5	24	✓	✓	✓	✓	1224 128	4.6					✓	✓	✓		24	✓	②	✓	✓	✓		✓	✓	✓

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

Comments:

30s, upl, dn 2, upl, 30s.

↑
19? 2.

12

Rosette Log for IOS Cruise ID 2008-30 Ship: CCGS Louis S St-Laurent

Cast # 56 UTC Date (ddmmmyyyy) 10/08/2008 Ice Coverage 38/10 Water Depth(below hull) 3566 m
Station PP-7 UTC Time 14:44 In Air pressure (before/after) -0.791/-0.84 Sound Speed 1479
GTD File 200830-056 Lat (N) 76 32.762 Lon (W) 135 26.356 CTD Operator ZF/ME

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-14 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137
1197		1000	1	✓														1								✓
1198		↓	2	✓														2								
1199		↓	3	✓														3								
1200		↓	4	✓														4			✓					
1201		800	5	✓														5								
1202		↓	6	✓														6								
1203		↓	7	✓														7								
1204		↓	8	✓														8			✓					
1205		600	9	✓														9								
1206		↓	10	✓														10								
1207		↓	11	✓														11								
1208		↓	12	✓														12			✓					
1209		400	13	✓														13								
1210		↓	14	✓														14								
1211		↓	15	✓														15								
1212		↓	16	✓														16			✓					
1213		300	17	✓														17								
1214		↓	18	✓														18								
1215		↓	19	✓														19								
1216		↓	20	✓														20			✓					
1217		500	21	✓														21								
1218		↓	22	✓														22								
1219		↓	23	✓														23			✓					
1220		↓	24	✓														24								✓

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

Comments:

MIXING: 30 sec, UP 1, DN 2, UP 1, 30 sec

down to 1600

~3500

Cesium
Cast

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Cast # 55UTC Date (ddmmmyyyy) 10/08/2008Ice Coverage 8.5/10Water Depth(below hull) 3721 mStation CB-15UTC Time 0345In Air pressure (before/after) -0.8 / -0.89Sound Speed 1479 m/sCTD File 200830-055Lat (N) 76° 59.534'Lon (W) 140° 0.773'CTD Operator K.S./M.D./S.Z.

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-14 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Es-137
1173	Bot	3716	1	✓✓			(3)	426, 308, 424	4.6			✓	✓					1	✓	(2)	✓	✓	✓			
1174		3100	2	✓✓	✓	1224	✓	117	4.6			✓	✓				✓	2		✓	✓	✓	✓		✓	
1175		2500	3	✓✓		9114	✓	11	4.5			✓	✓					3							✓	
1176		1964	4	✓✓	✓	7223, 7357	✓	328	4.5			✓	✓					4							✓	
1177		1500	5	✓✓		7352	✓	17	4.2			✓	✓					5							✓	
1178		1000	6	✓✓		7332	(2)	104, 316	4.0			✓	✓	✓	✓			6							✓	
1179		800	7	✓✓		9837	✓	306	3.7			✓	✓	✓	✓			7							✓	
1180		600	8	✓✓		7353	✓	325	3.4			✓	✓					8							✓	
1181		500	9	✓✓	✓	7383		421	3.2			✓	✓	✓	✓			9	✓			✓	✓		✓	
1182		450	10	✓✓				2	3.5			✓	✓					10								
1183	+max	392	11	✓✓	✓✓	7166, 9024		8	3.0				✓	✓	✓			11	✓			✓	✓		✓	
1184	34.75	304	12	✓✓	✓	7629		119	3.3									12	✓				✓		✓	
1185	34.6	270	13	✓✓		7433		403	3.9								✓	13	✓						✓	
1186	34.4	230	14	✓✓		9061		402	4.8					✓	✓		✓	14	✓	✓					✓	
1187	34	187	15	✓✓	✓	7676		102	5.2					✓	✓		✓	15	✓						✓	
1188	33.5	165	16	✓✓				401	5.3									16	✓							
1189	33.1	154	17	✓✓	✓	9054		410	5.2			✓	✓	✓	✓		✓	17	✓			✓	✓			
1190	32.9	149	18	✓✓				327	5.2			✓	✓	✓	✓			18	✓	✓	✓					
1191	32.6	133	19	✓✓			✓	407	5.1									19	✓							
1192	32.3	110	20	✓✓	✓	7504	(2)	9, 115	5.1					✓	✓	✓		20							✓	
1193	+max	82	21	✓✓			✓	305	4.6							✓		21							✓	
1194	Chl max	52	22	✓✓	✓	7417	✓	405	4.5			✓	✓	✓	✓	✓		22							✓	
1195	+max	21	23	✓✓			✓	107	4.1					✓	✓	✓		23		✓						
1196		5	24	✓✓	✓✓	9069, 8978	✓	14	4.2			✓	✓	✓	✓	✓	✓	24	✓	(2)	✓	✓	✓		✓	

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

Comments:

17+3 =
2022 run out of water!
24

16

Intension / Deep

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Cast # 54

UTC Date (ddmmmyyyy) 10 / 08 / 2008

Ice Coverage 9.5 / 10

Water Depth(below hull) 3722 m

Station CB-15

UTC Time 0047

In Air pressure (before/after) -0.81 / -0.85

Sound Speed 1479

CTD File 200830-054

Lat (N) 76° 59.336

Lon (W) 139° 59.798

CTD Operator K.S. / M.D.

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-14 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137
1149		3000	✓ 1	✓✓			✓	422	4.6									1		(3)	✓					
1150		2800	✓ 2	✓✓				27	4.7									2								
1151		2600	✓ 3	✓✓				4	4.6									3								
1152		2400	✓ 4	✓✓				13	4.6									4								
1153		2200	✓ 5	✓✓				17	4.6									5								
1154		2000	✓ 6	✓✓				16	4.6									6								
1155		1800	✓ 7	✓✓				101	4.6									7								
1156		1600	✓ 8	✓✓			✓	12.1	4.5									8			✓					
1157		1400	✓ 9	✓✓				127	4.4									9								
1158		1200	✓ 10	✓✓				303	4.3									10								
1159		1000	✓ 11	✓✓				7	4.2									11								
1160		900	✓ 12	✓✓				310	4.2									12								
1161		800	✓ 13	✓✓				234	4.0									13			✓					
1162		700	✓ 14	✓✓				19	3.8									14								
1163		600	✓ 15	✓✓				28	3.6									15								
1164		490	✓ 16	✓✓	✓	7357		413	3.4									16								
1165		470	✓ 17	✓✓		7637		26	3.3									17								
1166		455	✓ 18	✓✓		7488		125	3.3									18								
1167		440	✓ 19	✓✓		7495		417	3.2									19								
1168		420	✓ 20	✓✓	✓	9066 7222	✓	105.22	3.2									20								
1169		400	✓ 21	✓✓		9097		122	3.1									21								
1170		390	✓ 22	✓✓		7201		114	3.2									22		✓	✓					
1171		380	✓ 23	✓✓		410		6	3.2									23								
1172		370	✓ 24	✓✓	✓	7552	✓	411	3.2									24		(3)	✓					

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

Comments:

9 for Int

↑ May require 3

From 550 to 350 please raise @ 30 m/min ✓

2 sets Fresh, 1 set frozen (?) please run full dups for 24 STATs

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Cast #53

StationCB-15

CTD File200830-053

UTC Date (ddmmmyyyy)9 Aug 2008

UTC Time2200

Lat (N)76 59.563

Ice Coverage9.0/10

In Air pressure (before/after)0.1-0.8

Lon (W)139 57.162

Water Depth(below hull)3719 m

Sound Speed1479

CTD OperatorKS/MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	DIC-14 (WHOI)	DOC-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	I-129	Cs-137
1125		1000	✓ 1	✓														1								✓
1126		↓	✓ 2	✓														2								✓
1127		↓	✓ 3	✓														3								✓
1128		↓	✓ 4	✓														4			✓					✓
1129		800	✓ 5	✓														5								✓
1130		↓	✓ 6	✓														6								✓
1131		↓	✓ 7	✓														7								✓
1132		↓	✓ 8	✓														8			✓					✓
1133		600	✓ 9	✓														9								✓
1134		↓	✓ 10	✓														10								✓
1135		↓	✓ 11	✓														11								✓
1136		↓	✓ 12	✓														12			✓					✓
1137		400	✓ 13	✓														13								✓
1138		↓	✓ 14	✓														14								✓
1139		↓	✓ 15	✓														15								✓
1140		↓	✓ 16	✓														16			✓					✓
1141		300	✓ 17	✓														17								✓
1142		↓	✓ 18	✓														18								✓
1143		↓	✓ 19	✓														19								✓
1144		↓	✓ 20	✓														20			✓					✓
1145		5	✓ 21	✓														21								✓
1146		↓	✓ 22	✓														22								✓
1147		↓	✓ 23	✓														23								✓
1148		↓	✓ 24	✓														24			✓					✓

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

Comments: At each stop: 30sec, 1up, 2down, 1up, 30sec

✓ 3000
 ✓ 29
 ✓ 28
 ✓ 27
 ✓ 26
 ✓ 25
 ✓ 24
 ✓ 23
 ✓ 22
 ✓ 21
 ✓ 20
 ✓ 19
 ✓ 18
 ✓ 17
 ✓ 16
 ✓ 15
 ✓ 14
 ✓ 13
 ✓ 12
 ✓ 11
 ✓ 10
 ✓ 9
 ✓ 8
 ✓ 7
 ✓ 6
 ✓ 5

9 Feb Int

Rosette Log for IOS Cruise ID 2008-30

Ship: CCGS Louis S St-Laurent

Cast # 52 UTC Date (ddmmmyyyy) 09/08/2008 Ice Coverage 10/10 Water Depth(below hull) 3754 m
Station CB-13 UTC Time 08:52 In Air pressure (before/after) -0.791 - 0.84 Sound Speed 1479
CTD File 200830-052 Lat (N) 77 10-286 Lon (W) 142 1-511 CTD Operator EF/WB

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity	CFC	CFC Syringe #	Oxygen	Oxy Flask #	Oxy draw temp	D16-44 (WHOI)	DOS-14 (WHOI)	DIC	DIC-13 (K. Brown)	CDOM	DOC	Chl-a	BAC	Niskin #	ALK	NUT	SAL	O18	Ba	NH4	129	CS-137
1101	Bot-8	3751	✓ 1	VV			③	428.405, 311	4.6								①	1		③	✓					
1102		3100	✓ 2	VV			✓	308	4.6								①	2	✓		VV	✓	✓			
1103		2500	✓ 3	VV				424	4.6									3			✓					
1104		2000	✓ 4	VV	✓	7166		117	4.5									4								
1105		1500	✓ 5	VV				11	4.4									5								
1106		1000	✓ 6	VV	✓	9024		328	4.6					①	①			6								
1107		800	✓ 7	VV				17	3.9					①	①			7								
1108		600	✓ 8	VV				104	3.7									8			✓					
1109		500	✓ 9	VV	✓	7629		316	3.4					①	①			9			VV					
1110		450	✓ 10	VV				306	3.3									10			✓					
1111	Tmax	410	✓ 11	VV	✓	7433		325	3.3					①	①			11	✓			✓	✓			
1112	34.75	328	✓ 12	VV			✓	421	3.5								✓	12	✓			✓	✓			
1113	34.6	293	✓ 13	VV			②	2, 107	3.8					①	①		✓	13								
1114	34.4	253	✓ 14	VV	✓	9061, 7676	✓	8	4.1					①	①		✓	14	✓			✓	✓			
1115	34	209	✓ 15	VV				119	5.1					①	①		✓	15								
1116	33.5	190	✓ 16	VV				403	5.1									16								
1117	33.1	175	✓ 17	VV	✓	9054		402	5.1					①	①		✓	17			✓					
1118	32.9	163	✓ 18	VV				102	5.2					✓	✓			18			VV					
1119	32.6	136	✓ 19	VV				401	5.1								✓	19			✓					
1120	32.3	112	✓ 20	VV	✓	7504		412	4.8					✓	✓	✓	✓	20								
1121	Tmax	80	✓ 21	VV				327	5.2							①	①	21								
1122	Cmax	55	✓ 22	VV				407	5.2					✓	✓	✓	✓	22				✓	✓			
1123	Tmax	20	✓ 23	VV			✓	9	5.2					✓	✓	✓	✓	23								
1124		5	✓ 24	VV			②	115, 14	5.1					✓	✓	✓	✓	24	✓	③	✓	✓	✓			

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

Comments:

↑ 8

choose a feature that is close to 50, 75m
+ label Tmax, Cmax, Tmax

↑

3 sets.
Freeze 1, Run 2 Fresh for STATS