

Rosette Log for IOS Cruise ID 2022-052 Ship: CCGS Sir Wilfrid Laurier

Event # 16 UTC Date (ddmmmyyyy) 23 | AUG | 2022 Water Depth(Sounder) 46 m (includes 5m ship draft)
Station: VS-M UTC Time 21:09 Weather/Sea State calm, overcast
CTD File: 2022-052- 0016 Lat (N) 68°53.458 Lon (W) 101°30.989 Watchkeeper(s) KB

Niskin #	Firing Order	Confirmed Fire	YOYO?	Target Property	Target CTD Depth (db)	Actual Pressure (db)	Sample #	Bottle Integrity	Oxygen (IOS)	Oxy Fast/T	Oxy Fast/ T	DIC/Alk (IOS)	Nutrients (IOS)	O18 (IOS)	Salinity (IOS)	Niskin #					Comments
1		✓		bottom		42.3	76					x	xx	x	x	1					alt= 3.9
2		✓	YOYO	50			79						xxxx		x	2					depth = 46m
3		✓	YOYO	40		40.2	80					xx	xxxx	x	x	3					
4		✓	YOYO	30		29.9	81						xxxx		x	4					
5		✓		20		20.5	82					x	xx	x	x	5					
6		✓	YOYO	10	10	9.8	83					x	xxxx	x	x	6					
7		✓	YOYO	6	7	6.7	84					x	xxxx	x	x	7					
8		✓	YOYO	2	4	3.9	85					x	xxxx	xx	x	8					
9		✓		0	2	2.2	86					x	xx	x	x	9					at winch operators discretion (winch counter @ 0)
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 fail. If niskin fails, explain this in the comments column. yoyo = 30s stop, lower 1m, raise 2m, lower 1m, 30s stop

Comments:

Sunafile A0000068.csv

Rosette Log for IOS Cruise ID 2022-052 Ship: CCGS Sir Wilfrid Laurier

Event # 13 UTC Date (ddmmmyyyy) 23_AUG_2022 Water Depth(Sounder) 118 m (includes 5m ship draft)
Station: QMG-M UTC Time 13:44 Weather/Sea State 20Kts wind; low swell, overcast
CTD File: 2022-052-0013 Lat (N) 68°39.805 Lon (W) 103°0.724 Watchkeeper(s) KB

	Niskin #	Firing Order	Confirmed Fire	YOYO?	Target Property	Target CTD Depth (db)	Actual Pressure (db)	Sample #	Bottle Integrity	Oxygen (IOS)	Oxy Flas/T	Oxy Flas/ T	DIC/Alk (IOS)	Nutrients (IOS)	O18 (IOS)	Salinity (IOS)	Niskin #					Comments
105, 112, 98, 73, 58	1		✓		Bot - 5		115	66					x	xx	xx	x	1					alt=4.6
	2		✓	YOYO	100		100.7	67					x	xxxx	x	x	2					99 97 98
	3		✓	YOYO	75		75.3	68					x	xxxx	x	x	3					74 72 73
	4		✓	YOYO	60		60.5	69						xxxx		x	4					59 57 58
	5		✓		50		50.8	70						xx		xx	5					
	6		✓	YOYO	40		40.4	71					x	xxxx	x	x	6					39 37 38
	7		✓		30		30.7	72						xx		x	7					
	8		✓		20		20.4	73					x	xx	x	x	8					
	9		✓		10	10	10	74					x	xx	x	x	9					
	10		✓	YOYO	6	7	6.6	75					xx	xxxx	x	x	10					6 4 5
	11		✓	YOYO	2	4	4	76					x	xxxx	x	x	11					3 1 2
	12		✓		0	2	2.7	77					x	xx	x	x	12					@winch operators discretion
	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 fail. If niskin fails, explain this in the comments column. yoyo = 30s stop, lower 1m, raise 2m, lower 1m, 30s stop

Comments:

nasy altimeter until 55m from bottom

Suna file: A0000067.csv

Rosette Log for IOS Cruise ID 2022-052 Ship: CCGS Sir Wilfrid Laurier

Event # | | UTC Date (ddmmmyyyy) 21 | _AUG_| 2022 Water Depth(Sounder) 62 m (includes 5m ship draft)
Station: DSS-M UTC Time 22:30 Weather/Sea State 21 Kts wind, low swell, overcast
CTD File: 2022-052-0011 Lat (N) 68°48.852 Lon (W) 105° 6.256 Watchkeeper(s) KB

	Niskin #	Firing Order	Confirmed Fire	YOYO?	Target Property	Target CTD Depth (db)	Actual Pressure (db)	Sample #	Bottle Integrity	Oxygen (IOS)	Oxy Flast/T	Oxy Flast/ T	DIC/Alk (IOS)	Nutrients (IOS)	O18 (IOS)	Salinity (IOS)	Niskin #					Comments
58 93	1		✓		Bot-5		55.5	57					X	XX	X	X	1					alt = 4.8
46	2		✓	yo-yo	50		50	58						XXXX		X	2					
36	3		✓	yo-yo	40		40.5	59					X	XXXX	X	X	3					
28	4		✓	yo-yo	30		30	60						XXXX		X	4					
16	5		✓	yo-yo	20		20.8	61					XX	XX	X	X	5					
8	6		✓	yo-yo	10	10	9.9	62					X	XXXX	X	X	6					9 7 8
5	7		✓	yo-yo	6	7	6.7	63					X	XXXX	XX	X	7					6 4 5
2	8		✓	yo-yo	2	4	3.8	64					X	XXXX	X	X	8					
	9		✓		0	2	2.6	65					X	XX	X	X	9					@winch operators discretion
	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 fail. If niskin fails, explain this in the comments column. yo-yo = 30s ↓1 ↑2 ↓1 30s

Comments:

Suna file = A0000066.csv

Rosette Log for IOS Cruise ID 2022-052 Ship: CCGS Sir Wilfrid Laurier

Event # 9 UTC Date (ddmmmyyyy) 21 AUG 2022 Water Depth(Sounder) 118 m (includes 5m ship draft)
Station: QD-M UTC Time 18:56 Weather/Sea State 26 kts wind, overcast
CTD File: 2022-052-0009 Lat (N) 68°55.885 Lon (W) 105°49.846 Watchkeeper(s) KB

105-112
-3 97
73
58
46
38
24
16
4
5
2

Niskin #	Firing Order	Confirmed Fire	YOYO?	Target Property	Target CTD Depth (db)	Actual Pressure (db)	Sample #	Bottle Integrity	Oxygen (IOS)	Oxy Flas/T	Oxy Flas/ T	DIC/Alk (IOS)	Nutrients (IOS)	O18 (IOS)	Salinity (IOS)	Niskin #					Comments
1		✓		Bot-5		115	45					XX	XX	X	X	1					alt= 4.8
2		✓	yoyo	100		100	46					X	XXX	X	X	2					98 96 97
3		✓	yoyo	75		75.3	47					X	XXX	XX	X	3					74 72 73
4		✓	yoyo	60		60.2	48						XXX		X	4					59 57 58
5		✓		50		50.4	49						XX		XX	5					
6		✓	yoyo	40		40.5	50					X	XXX	X	X	6					39 37 38
7		✓		30		30.5	51						XX		X	7					
8		✓		20		20.4	52					X	XX	X	X	8					
9		✓		10	10	10.3	53					X	XX	X	X	9					
10		✓	yoyo	6	7	6.7	54					X	XXX	X	X	10					6 4 5
11		✓	yoyo	2	4	3.8	55					X	XXX	X	X	11					3 1 2
12		✓		0	2	2.8	56					X	XX	X	X	12					@ winch operators discretion
13																13					
14																14					
15																15					
16																16					
17																17					
18																18					
19																19					
20																20					
21																21					
22																22					
23																23					
24																24					

winch counter 1 @ surf ←
db = 2.6

could be due to sea state & winch operator or MD changed settings on Scanrol

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

Comments:

y0-y0 = 30s ↓1 ↑2 ↓1 30s

Suna file : A0000065.csv

Rosette Log for IOS Cruise ID 2022-052 Ship: CCGS Sir Wilfrid Laurier

Event # 5 UTC Date (ddmmmyyy) 20 | AUG | 2022 Water Depth(Sounder) 227 +5 m (includes 5m ship draft)

Station: BIU-M UTC Time 13:55 Weather/Sea State calm; overcast

CTD File: 2022-052-0005 Lat (N) 67°40.295 Lon (W) 107°57.764 Watchkeeper(s) KB

	Niskin #	Firing Order	Confirmed Fire	YOYO?	Target Property	Target CTD Depth (db)	Actual Pressure (db)	Sample #	Bottle Integrity	Oxygen (IOS)	Oxy Flas/T	Oxy Flas/ T	DIC/Alk (IOS)	Nutrients (IOS)	O18 (IOS)	Salinity (IOS)	Niskin #						Comments
207.25	1		✓		Bot-5		220	31					X	XX	XX	X	1						alt = 3.6
-5 195	2		✓	yoyo	200		✓	32					X	XXX	X	X	2						
-4 146	3		✓		150		150.5	33					XX	XX	X	X	3						
-3 97	4		✓	yoyo	100		100.4	34					X	XXX	X	X	4						98 96 97
-2 72	5		✓		75		✓	35					X	XX	X	X	5						
-2 59	6		—	yoyo	60		60.5	36						XXXX		X	6						59 57 58 missed. ñ
48	7		✓		50		50.8	37						XX		XX	7						
36	8		✓	yoyo	40		✓	38					X	XXXX	X	X	8						39 37 38
26	9		✓		30		30.7	39						XX		X	9						
18	10		✓		20		✓	40					X	XX	XX	X	10						
8	11		✓		10	10	✓	41					XX	XX	X	X	11						
5	12		✓	yoyo	6	7	6.7	42					X	XXX	X	X	12						6 4 5
2	13		✓	yoyo	2	4	3.6	43					X	XXX	X	X	13						3 1 2
	14		✓		0	2	2	44					X	XX	X	X	14						@Winch operator discretion
	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 fail. If niskin fails, explain this in the comments column.

y0-y0 = 30s, ↓1 ↑2 ↓1, 30s

Comments:

Sona file A0000064.csv

Noticed after cast that oxy tubing was leaking. Fixed. Cast looks okay still

(small leak)

Rosette Log for IOS Cruise ID 2022-052 Ship: CCGS Sir Wilfrid Laurier

Event # 4 UTC Date (ddmmmyyyy) 19 AUG 2022 Water Depth(Sounder) 400 m (includes 5m ship draft)
Station: CGS-M UTC Time 00:43 Weather/Sea State low/no swell; sunny
CTD File: 2022-052-0004 Lat (N) 67° 53.749 Lon (W) 111° 20.942 Watchkeeper(s) KB

	Niskin #	Firing Order	Confirmed Fire	YOYO?	Target Property	Target CTD Depth (db)	Actual Pressure (db)	Sample #	Bottle Integrity	Oxygen (IOS)	Oxy Flast/T	Oxy Flast/ T	DIC/AIK (IOS)	Nutrients (IOS)	O18 (IOS)	Salinity (IOS)	Niskin #					Comments
380	1		✓		Bot=5		388	14					X	XX	X	X	1					alt= 4.5
-7 342	2		✓		350		✓	15					X	XX	X	X	2					
-7 293	3		✓		300		✓	16					X	XX	X	X	3					
-6 244	4		✓		250		250.5	17					X	XX	XX	X	4					
-6 194	5		✓	yoyo	200		199	18					X	XXXX	X	X	5					
-4 146	6		✓		150		150.5	19					X	XX	X	XX	6					
-4 96	7		✓	yoyo	100		99.5	20					XX	XXXX	X	X	7					
-2 73	8		✓		75		75.5	21					X	XX	X	X	8					
-2 58	9		✓	yoyo	60		60.7	22						XXXX		X	9					
-2 42	10		✓		50		49.7	23						XX		X	10					
-2 38	11		✓	yoyo	40		40.6	24					X	XXXX	X	X	11					
-2 28	12		✓		30		30.5	25						XX		X	12					
-2 18	13		✓		20		20.5	26					XX	XX	X	X	13					
-2 8	14		✓		10	10	10.4	27					X	XX	X	XX	14					
-2 5	15		✓	yoyo	6	7	✓	28					X	XXXX	X	X	15					
-2 2	16		✓	yoyo	2	4	3.9	29					X	XXXX	XX	X	16					
0	17		✓		0	2	2.6	30					X	XX	X	X	17					winch operators discretion
	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 fail. If niskin fails, explain this in the comments column. yoyo = 30s, ↓1, ↑1, ↓1, 30s

Comments:
Suna file A0000063.csv

Rosette Log for IOS Cruise ID 2022-052

Ship: CCGS Sir Wilfrid Laurier

218 +5

Event # |

UTC Date (ddmmmyyyy) 18 | AUG | 2022

Water Depth(Sounder) 223 m (includes 5m ship draft)

Station: CGN-M

UTC Time 15:51

Weather/Sea State 2-3m swell;

CTD File: 2022-052-0001

Lat (N) 68° 20.993

Lon (W) 112° 21.394

Watchkeeper(s) KB

217+5
210
-5 148
-3 98
-3 72
-2 58
-2 48
-2 38
-2 28
-2 18
-2 8
-2 5
2

Niskin #	Firing Order	Confirmed Fire	YOYO?	Target Property	Target CTD Depth (db)	Actual Pressure (db)	Sample #	Bottle Integrity	Oxygen (IOS)	Oxy Flast/T	Oxy Flast/T	DIC/ALK (IOS)	Nutrients (IOS)	O18 (IOS)	Salinity (IOS)	Niskin #						Comments
1		✓		Bot-5		203.1	1					X	XY	XX	X	1						
2		✓		150		148.5	2					X	XY	X	X	2						
3		✓		100		101	3					X	XX	X	XX	3						
4		✓		75		74.7	4					X	XX	X	X	4						
5		✓		60		60.6	5						XY		X	5						
6		✓		50		50.4	6						XY		XX	6						
7		✓		40		40.1	7					XX	XY	X	X	7						
8		✓		30		30.3	8						XX		X	8						
9		✓		20		20.3	9					X	XY	X	X	9						
10		✓		10	10	10	10					XX	XX	X	X	10						
11		✓		6	7	7	11					X	XY	XX	X	11						
12		✓		2	4	3.8	12					X	XY	X	X	12						
13		✓		0	2	2.2	13					X	XY	X	X	13						last bottle closed @ surface.
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 fail. If niskin fails, explain this in the comments column.

Comments:

1st cast. No yo-yo
Suna file A0000062.csv