

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LB04 Event #: 5 Ship: Tully UTC Date (dd mmm yyyy): 29 MAY 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	UBC gases	UVic			
1		12	Bot-10		106	x		x								
2		13	75			xx		x								
3		14	50			x		xx								
4		15	30			x		x								
5		16	20			x		x	xx		xx					
6		17	10			x		x	xx		xx					
7		18	5			x		x	xx	xx	xx					Fluo:
8		19	Chl Max						xx	xx						Fluo: NOT USED
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s):

Bottom Depth: 110 m
Transmissio Cleaned: Y / ☒ N

Time	UTC	Local
Start	1751	1051
Bottom	1754	
End	1802	

Positional Information
Start
Lat: 48 ° 35.76 N
Lon: 125 ° 8.96 W

Bottom
Lat: 48 ° 35.77 N
Lon: 125 ° 9.00 W

End
Lat: 48 ° 35.80 N
Lon: 125 ° 9.09 W

Extra comments:

Sampling Log

Cruise ID:

2013-38

Station:

LB05

Event #: 8

Ship: Tully

UTC Date (dd mmm yyyy): 29 MAY 2013

[illegible]

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): MR

Bottom Depth: 101 m

Transmisso Cleaned: Y / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
Start	2022	1322
Bottom	2025	
End	2030	

Positional Information		
Lat:	48 ° 34.05	N
Lon:	125 ° 12.08	W

Bottom	Lat:	48 ° 34.06	N
	Lon:	125 ° 12.07	W

End	Lat:	48 ° 34.07	N
	Lon:	125 ° 12.05	W

Extra comments:
out of order!

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LB06 Event #: 9 Ship: Tully UTC Date (dd|mmm|yyyy): 29 | MAI | 2013

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed		Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	UBC	UVic					
				✓	Pressure														
						4.5/6L		MR		decal	MA	DC	gases						
1	1	22	Bot-10	✓	105	x		x											
2	2	23	75	✓	75	xx		x											
3	3	24	50	✓	50	x		xx											
4	4	25	30	✓	30	x		x											
5	5	26	20	✓	19	x		x		xx		xx							
6	6	27	10 ^{up}	✓	10	x		x		xx	Lx	xx						Fluo: 1.0	
7	7	28	5	✓	5	x		x		xx	xx	xx						Fluo: 0.6	
8		29	Chl Max							xx	xx							Fluo: NOT USED	
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): MR

Bottom Depth: 115 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2103	1403
Bottom	2106	
End	2114	

Positional Information

Start Lat: 48 ° 32.23 N

Start Lon: 125 ° 15.43 W

Bottom Lat: 48 ° 32.23 N

Bottom Lon: 125 ° 15.39 W

End Lat: 48 ° 32.25 N

End Lon: 125 ° 15.32 W

Extra comments:

Sampled 7 → 1

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LB08 Event #: 21 Ship: Tully UTC Date (dd mmm yyyy): 30 MAY 2013

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments					
			Target Pressure	Confirmed	Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	DIC								
				✓		NA/NA		DC/NA		DC/NA	DC	DC	DC	GC							
1		32	Bot-5	✓	127	x x		x													
2		33	Bot-10	✓	122	x x		x					x								
3		34	Bot-15	✓	117	x x		x													
4		35	100	✓		x		x x					x x								
5		36	75	✓		x		x					x								
6		37	50	✓		x		x					x								
7		38	30	✓		x		x					x x								
8		39	20	✓		x		x		x x		x x	x								
9		40	10	✓		x x		x		x x		x x	x								
10		41	5	✓		x		x		x x	x x	x x	x					Fluo:			
11		42	Max							x x	x x							Fluo:			
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					
21																					
22																					
23																					
24																					

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR/DY

Bottom Depth: 133 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0501	2201
Bottom	0503	2203
End	0515	

Positional Information
Start
Lat: 48 ° 25.24 N
Lon: 125 ° 28.54 W

Bottom
Lat: 48 ° 25.24 N
Lon: 125 ° 28.54 W

End
Lat: 48 ° 25.24 N
Lon: 125 ° 28.54 W

Extra comments:
no chl Max

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LB07 Event #: 22 Ship: Tully UTC Date (dd mmm yyyy): 30 May 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target	Confirmed	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases			
			Pressure	√ Pressure								UBC			
1		30	5				x		x x	x x					Fluo: 0.9
2		31	Max				x		x x	x x					Fluo:
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR

Bottom Depth: 157 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0604	2304
Bottom	0608	
End	0612	

Positional Information
Start
Lat: 48 ° 28.69 N
Lon: 125 ° 22.10 W

Bottom
Lat: 48 ° 28.69 N
Lon: 125 ° 22.10 W

End
Lat: 48 ° 28.69 N
Lon: 125 ° 22.10 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LB09 Event #: 27 Ship: Tully UTC Date (dd mmm yyyy): 30 May 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4						
1		43	Bot-10	144	x		x										
2		44	125		x		xx										
3		45	100		x		x										
4		46	75		x		x										
5		47	50		x		x										
6		48	30		x		x										
7		49	20		xx		x		xx		xx						
8		50	10		x		x		xx		xx						
9		51	5		x		x		xx	xx	xx						Fluo:
10		52	Max						xx	xx							Fluo: NOT USED
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): SR

Bottom Depth: 151 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0953	
Bottom	0956	0256
End	1007	

Positional Information

Start Lat: 48 ° 22.09 N

Start Lon: 125 ° 34.93 W

Bottom Lat: 48 ° 22.10 N

Bottom Lon: 125 ° 34.92 W

End Lat: 48 ° 22.12 N

End Lon: 125 ° 34.83 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LB10 Event #: 28 Ship: Tully UTC Date (dd|mmm|yyyy): 30 May 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target	Confirmed	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases				
			Pressure	✓ Pressure												
1		53	5				x		xx	xx						Fluo:
2		54	Max				x		xx	xx						Fluo: no max
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): SR

Bottom Depth: 153 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1103	0403
Bottom	1105	
End	1108	

Positional Information

Start Lat: 48 ° 18.70 N

Start Lon: 125 ° 41.27 W

Bottom Lat: 48 ° 18.71 N

Bottom Lon: 125 ° 41.23 W

End Lat: 48 ° 18.73 N

End Lon: 125 ° 41.27 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LB11 Event #: 29 Ship: Tully UTC Date (dd|mmm|yyyy): 30 May 2013

			Rosette Operation		Samples Taken / Sampler's Initials										Comments		
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ☒ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4						
1		55	Bot-10	260	x		x										
2		56	175		x		x x										
3		57	150		x		x										
4		58	125		x		x										
5		59	100		x		x										
6		60	75		x		x										
7		61	50		x x		x										
8		62	30		x		x										
9		63	20		x		x		x x		x x						
10		64	10		x		x		x x		x x						
11		65	5		x		x		x x	x x	x x						Fluo:
12		66	Max						x x	x x							Fluo: NOT USED
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): SR

Bottom Depth: 207 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1201	0501
Bottom	1205	
End	1218	

Positional Information
Start
Lat: 48 ° 15.26 N
Lon: 125 ° 47.66 W

Bottom
Lat: 48 ° 15.25 N
Lon: 125 ° 47.65 W

End
Lat: 48 ° 15.22 N
Lon: 125 ° 47.57 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LB12 Event #: 31 Ship: Tully UTC Date (dd mmm yyyy): 30 May 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4						
1		67	Bot-10	489	x		x	x									
2		68	400		x		x	x									
3		69	300		xx		x										
4		70	250														NH4 water
5		71	250		x		xx										
6		72	200		x		x										
7		73	175		x		x										
8		74	150		x		x										
9		75	125		x		x										
10		76	100		x		x										
11		77	75		x		x										
12		78	50		x		x										
13		79	30		x		x										
14		80	20		x		x		xx		xx						
15		81	10		xx		x		xx		xx						Fluo:
16		82	5		x		x		xx	xx	xx						Fluo:
17		83	Max						xx	xx							NOT USED
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): SR

Bottom Depth: 494 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	13 23	06 33
Bottom	13 31	
End	13 54	

Positional Information

Lat:	48 ° 13.06	N
Lon:	125 ° 51.75	W

Start
Bottom
End

Lat: 48 ° 13.02 N
 Lon: 125 ° 51.65 W

Lat: 48 ° 13.01 N
 Lon: 125 ° 51.58 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LB13 Event #: 32 Ship: Tully UTC Date (dd mmm yyyy): 30 May 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target	Confirmed	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases			
			Pressure	✓ Pressure								UBC			
1		84	5				x		x x	x x					Fluo: MISTFIRE ON ONE
2		85	Max	25			x		x x	x x					Fluo:
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): SR

Bottom Depth: 915 m
Transmisso Cleaned: ☒ Y ☐ N

	UTC	Local
Time Start	1433	0733
Bottom	1449	
End	1507	

Positional Information
Start
Lat: 48 ° 10.63 N
Lon: 125 ° 56.05 W

Bottom
Lat: 48 ° 10.68 N
Lon: 125 ° 56.02 W

End
Lat: 48 ° 10.72 N
Lon: 125 ° 56.06 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LB14 Event #: 33 Ship: Tully UTC Date (dd|mmm|yyyy): 30 May 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4				
1		86	Bot-10		1165	x		x	x						COOL NUT LOST
2		87	1000			x x	x x	x	x						COOL NUT LOST
3		88	750			x	x	x	x						
4		89	500			x	x	x x	x x						
5		90	400			x		x	x						
6		91	300			x		x							
7		92	250			x		x							
8		93	200			x		x							
9		94	175			x		x							
10		95	150			x		x							
11		96	125			x x		x							
12		97	100			x		x							
13		98	75			x		x							
14		99	50			x		x							
15		100	30			x		x x							
16		101	20			x		x	x x		x x				
17		102	10			x		x	x x		x x				
18		103	5			x		x	x x	x x	x x				Fluo: 0.8
19		104	Max						x x	x x					Fluo: 1.1 bot 16
20															
21															
22															
23															
24															

Profile type: ROS TRM X-Niskin other?
Watchkeeper(s): SRBottom Depth: 1163 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1544	0844
Bottom	1601	
End	1638	

Positional Information
Start
Lat: 48 ° 8.52 N
Lon: 125 ° 59.84 WBottom
Lat: 48 ° 8.48 N
Lon: 125 ° 59.79 WEnd
Lat: 48 ° 8.46 N
Lon: 125 ° 59.70 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LB15 Event #: 34 Ship: Tully UTC Date (dd|mmm|yyyy): 30 May 2013

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments						
			Target Pressure	Confirmed ✓	Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases									
													UBC									
1	2	105	5					x		x x	x x								Fluo:			
2	1	106	Max		34			x		x x	x x								Fluo:			
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						
17																						
18																						
19																						
20																						
21																						
22																						
23																						
24																						

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): SR

Bottom Depth: 1539 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1740	1040
Bottom	1803	
End	1830	

Positional Information
Start
Lat: 48 ° 4.35 N
Lon: 126 ° 8.28 W

Bottom
Lat: 48 ° 4.28 N
Lon: 126 ° 8.24 W

End
Lat: 48 ° 4.24 N
Lon: 126 ° 8.20 W

Extra comments:
out-of-order.
5 m in Niskin 3

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LB16 Event #: 35 Ship: Tully UTC Date (dd/mm/yyyy): 30 / May / 2013

Niskin #	Firing #	Sample #	Rosemount Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	UBC			
1	2	107	5				x		xx	xx						Fluo: 0.28
2	1	108	Max	☒	35		x		xx	xx						Fluo: 0.74
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR

Bottom Depth: 1800 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1927	1227
Bottom	1958	
End	2030	

Positional Information

Start
Lat: 48 ° 00.51 N
Lon: 126 ° 16.87 WBottom
Lat: 48 ° 00.55 N
Lon: 126 ° 16.99 WEnd
Lat: 48 ° 00.54 N
Lon: 126 ° 17.03 W

Extra comments:

out of order.

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38

Station: LC11

Event #: 39

Ship: Tully

UTC Date (dd|mmm|yyyy): 31 | MAY | 2013

Cruise ID:			2013-38		Station:		LC11		Event #:		57		Camp:		Date:		Comments					
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Gases	UBC	DU/GC					
			Target Pressure	Confirmed Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	UBC										
1	1	112	Bot-10	✓	1463	x		x	x					xx								
2	2	113	1250	✓		xx	x	x	x					xx								
3	3	114	1000	✓		x	xx	x	x					xx								
4	4	115	750	✓		x	x	xx	xx					xx								
5	5	116	500	✓		x	x	x	x					xxx								
6	6	117	400	✓		x		x	x					xx								
7	7	118	300	✓		x		x						xx								
8	8	119	250	✓		x		x						xx								
9	9	120	200	✓		x		x						xx								
10	10	121	175	✓		x		x						xxx								
11	11	122	150	✓		x		x						xx								
12	12	123	125	✓		xx		x						xx								
13	13	124	100	✓		x		x						xx								
14	14	125	75	✓		x		xx						xx								
15	15	126	50	✓		x		x						xxx								
16	16	127	30	✓		x		x						xx								
17	17	128	20	✓		x		x		xx		xx		xx								
18	18	129	10	✓		x		x		xx		xx		xx								
19	19	130	5	✓		x		x		xx	xx	xx		xx						Fluo:		
20		131	Max							xx	xx									NOT USED.		
21																						
22																						
23																						
24																						

http://www.pa

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR

Bottom Depth: 1427 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0315	2015
Bottom	0345	
End	0426	

Positional Information

Lat:	48 ° 19.07	N
Lon:	126 ° 26.78	W

Start

Lat:	48 ° 19.00	N
Lon:	126 ° 26.70	W

Bottom

Lat:	48 ° 18.95	N
Lon:	126 ° 26.68	W

End

Extra comments:
SAMPLED 1 → 19

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LC09 Event #: 41 Ship: Tully UTC Date (dd/mm/yyyy): 31 May 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC	DIC		
1		132	Bot-10		606	x		xx	xx			xx	x		
2		133	500			x		x	x			xxx	xx		
3		134	400			x		x	x			xx	x		
4		135	300			x		x				xx	xx		
5		136	250			xx		x				xx	x		
6		137	200			x		x				xx	x		
7		138	175			x		x				xxx			
8		139	150			x		x				xx			
9		140	125			x		x				xx			
10		141	100			x		xx				xx	x		
11		142	75			x		x				xx			
12		143	50			x		x				xxx	x		
13		144	30			xx		x				xx	x		
14		145	20			x		x	xx		xx	xx			
15		146	10			x		x	xx		xx	xx	x		
16		147	5			x		x			xx	xx	x		
17		148	5						xx	xx					leak @ top
18		149	Max		15					xx					
19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR

Bottom Depth:	613	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	0645	2345
Bottom	0657	
End		

Positional Information		
Lat:	48 ° 25.90	N
Lon:	126 ° 13.66	W

Start		
Lat:	48 ° 25.87	N
Lon:	126 ° 13.59	W

Bottom		
Lat:	48 ° 25.	N
Lon:	126 ° 13.	W

Extra comments:
out-of-order!

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LC08 Event #: 43 Ship: Tully UTC Date (dd|mmm|yyyy): 31 May 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC	DIC					
1		150	Bot-10	192	x		x					xx	x					
2		151	200		x		x					xx	xx					Bot 2 wasn't fired due to only 192m of depth
3		152	175		x		x					xxx						
4		153	150		x		x					xx						
5		154	125		x		x					xx						
6		155	100		x		xx					xx	x					
7		156	75		xx		x					xx						
8		157	50		x		x					xxx	x					
9		158	30		x		x					xx	x					
10		159	20		x		x		xx		xx	xx	x					
11		160	10		x		x		xx		xx	xx	xx					
12		161	5		x		x		xx	xx	xx	x	x					HPLC not sampled
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): SR

Bottom Depth: 198 m

Transmisso Cleaned: ☒ Y ☐ N

	Time	UTC	Local
Start		0840	0140
Bottom		0843	
End		0858	

Positional Information

Start

Lat: 48 ° 29.47 N

Lon: 126 ° 7.04 W

Bottom

Lat: 48 ° 29.45 N

Lon: 126 ° 7.03 W

End

Lat: 48 ° 29.47 N

Lon: 126 ° 7.03 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LC01 Event #: 47 Ship: Tully UTC Date (dd/mm/yyyy): 31 May 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC	UVic					
1		162	Bot-10	✓	91	x		x					xx					
2		163	75	✓		x		xx					xxx					
3		164	50	✓		xx		x					xx					
4		165	30	✓		x		x					xx					
5		166	20	✓		x		x		xx		xx	xxx					
6		167	10	✓		x		x		xx		xx	xx					
7		168	5	✓		x		x		xx	xx	xx	xx				Fluo: ≈ 1.9	
8																	Fluo:	
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): SR

Bottom Depth:	97	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	1703	1003
Bottom	1705	
End	1715	

Positional Information
Start
Lat: 48 ° 50.43 N
Lon: 125 ° 27.95 W

Bottom
Lat: 48 ° 50.43 N
Lon: 125 ° 27.94 W

End
Lat: 48 ° 50.42 N
Lon: 125 ° 27.84 W

Extra comments:
Lots of Jelly fish in the area.

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38

Station: LC02

Event #: 48

Ship: Tully

UTC Date (dd mmm yyyy): 31 May 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC	DIC						
1		169	Bot-10	✓ 102	x		x					x x	x						
2		170	75	✓	x x		x					x x x	x x						
3		171	50	✓	x		x					x x	x						
4		172	30	✓	x		x					x x	x						
5		173	20	✓	x		x x		x x		x x	x x x	x						
6		174	10	✓	x		x		x x		x x	x x	x						
7		175	5	✓	x		x				x x	x x	x						
8		176	5						x x	x x							Fluo: 1.4		
9		177	Max						x x	x x							Fluo: not 2x base		
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): SR

Bottom Depth: 109 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1750	1050
Bottom	1752	
End	1800	

Positional Information

Lat:	48 ° 48.70	N
Lon:	125 ° 30.99	W

Start

Bottom

Lat:	48 ° 48.68	N
Lon:	125 ° 30.97	W

End

Lat:	48 ° 48.66	N
Lon:	125 ° 30.93	W

Extra comments:
Bot 8+9 not fired.
See log book for details

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LC04 Event #: 50 Ship: Tully UTC Date (dd/mm/yyyy): 31 MAY 2013

Niskin #	Firing #	Sample #	Rosette Operation			Samples faken / Sampler's Initials										Comments				
			Target Pressure	Confirmed	Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	GC/MS	PH					
				✓		me/hu							HH	UBC						
1		178	Bot-10	✓	156	x		x					x x							
2		179	150	✓		x		x					x x x							
3		180	125	✓		x		x					x x							
4		181	100	✓		x		x					x x							
5		182	75	✓		x		x					x x							
6		183	50	✓		x		x x					x x x							
7		184	30	✓		x x		x					x x							
8		185	20	✓		x		x		x x		x x	x x						Fluo: ~1.5	
9		186	10	✓		x		x		x x	x x	x x	x x		xxx				Fluo: 1.6	
10		187	5	✓		x		x		x x	x x	x x	x x						Fluo: 0.72	
11		188	Max							x x	x x								Fluo: NOT USED	
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR

Bottom Depth: 165 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1924	1224
Bottom	1927	
End	1939	

Positional Information
Start
Lat: 48 ° 43.44 N
Lon: 125 ° 40.82 W

Bottom
Lat: 48 ° 43.42 N
Lon: 125 ° 40.80 W

End
Lat: 48 ° 43.36 N
Lon: 125 ° 40.79 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LC06 Event #: 54 Ship: Tully UTC Date (dd/mm/yyyy): 31 May 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓	Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	GC/SC				
						ml/μl		ml		GC/SC		HH	UBC					
1	1	189	Bot-10	✓	82	x		x					xx					
2	2	190	75	✓		x		x					xx					
3	3	191	50	✓		x		x					xxx					
4	4	192	30	✓		x		x					xx					
5	5	193	20	✓		x		x		xx		xx	xx					
6	6	194	10	✓		x		xx		xx		xx	xx				4.8	
7	7	195	5			xx		x		xx	xx	xx	xx				Fluo: 7.8/9.5 (MAX)	
8		196	Max							xx	xx						Fluo: NOT USED	
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR

Bottom Depth: 91 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	2141	1441
Bottom	2143	
End	2151	

Positional Information

Start	Lat: 48 ° 36.48	N
	Lon: 125 ° 53.87	W
	▼	
Bottom	Lat: 48 ° 36.47	N
	Lon: 125 ° 53.86	W
	▼	
End	Lat: 48 ° 36.45	N
	Lon: 125 ° 53.82	W

Extra comments:

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LC07 Event #: 55 Ship: TULLY UTC Date (dd|mmm|yyyy): 31 | MAY | 2013

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC			
1	196			5			x		xx		xx			Fluo: 12.9
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): MR

Bottom Depth: 128 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2234	1534
Bottom	2237	
End	2241	

Positional Information

Start
 Lat: 48 ° 33.00 N
 Lon: 126 ° 00.64 W

Bottom
 Lat: 48 ° 33.01 N
 Lon: 126 ° 00.64 W

End
 Lat: 48 ° 33.01 N
 Lon: 126 ° 00.58 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: ____ | ____ | ____

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LD02 Event #: 68 Ship: Tully UTC Date (dd/mm/yyyy): 01 June 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC							
1		197	Bot-10	✓	40	x		x					x x						
2		198	30	✓		x		x					x x						
3		199	20	✓		x x		x		x x		x x	x x x						
4		200	10	✓		x		x x		x x		x x	x x						
5		201	5	✓		x		x		xx	xx	x x	x x						Fluo: 8.0
6		202	max	✓	12					x x	x x								Fluo: 11.0
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): ERBottom Depth: 47 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1631	0931
Bottom	1632	
End	1640	

Positional Information
Start
Lat: 48 ° 57.94 N
Lon: 125 ° 48.33 WBottom
Lat: 48 ° 57.94 N
Lon: 125 ° 48.32 WEnd
Lat: 48 ° 57.95 N
Lon: 125 ° 48.34 WExtra comments:
Not on station
due to fishing
2 miles off

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LG01 Event #: 71 Ship: Tully UTC Date (dd/mm/yyyy): 01 JUN 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments									
			Target Pressure	Confirmed ✓	Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4												
						KS. HR		MR			MR	DC												
1	1	203	Bot-10	✓	45	x		x																
2	2	204	30	✓	30	x		x																
3	3	205	20	✓	20	xx		xx		xx		xx												
4	4	206	10	✓	10	x		x		xx		xx												
5	5	207	5	✓	5	x		x		xx	xx	xx												
6		206	Max							xx	xx													
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): HR

Bottom Depth: 53 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2129	1429
Bottom	2131	
End	2137	

Positional Information

Lat:	49 ° 20.47	N
Lon:	126 ° 35.18	W

▼

Lat:	49 ° 20.47	N
Lon:	126 ° 35.18	W

▼

Lat:	49 ° 20.46	N
Lon:	126 ° 35.23	W

Extra comments:
SAMPLED 5 → 1

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LG02 Event #: 73 Ship: Tully UTC Date (dd mmm yyyy): 1 JUN 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	64106		
1	1	209	Bot-10	✓ 92	x		x					xx			
2	2	210	75	✓ 76	x		x					xx			
3	3	211	50	✓ 50	xx		xx					xx			
4	4	212	30	✓ 30	x		x					xx			
5	5	213	20	✓ 20	x		x		xx		xx	xx			
6	6	214	10	✓ 10	x		x		xx		xx	xx			
7	7	215	5	✓ 5	x		x		xx	xx	xx	xx			
8		216	Max						xx	xx					Fluo: 8.4
9															Elue: NOT USED
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR

Bottom Depth: 100 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2219	1519
Bottom	2221	
End	2230	

Positional Information
Start
Lat: 49 ° 18.68 N
Lon: 126 ° 38.28 W

Bottom
Lat: 49 ° 18.65 N
Lon: 126 ° 38.29 W

End
Lat: 49 ° 18.63 N
Lon: 126 ° 38.28 W

Extra comments:
SAMPLED 7 → 1

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LG04 Event #: 76 Ship: Tully UTC Date (dd|mmm|yyyy): 2 JUN 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4								
					✓														
1	1	216	Bot-10	✓	136	x		x											
2	2	217	125	✓		x		x											
3	3	218	100	✓		x x		x x											
4	4	219	75	✓		x		x											
5	5	220	50	✓		x		x											
6	6	221	30	✓		x		x											
7	7	222	20	✓		x		x		x x			x x						~0.8
8	9	223	10	✓		x		x		x x			x x						~1.5
9	10	224	5	✓		x		x		x x		x x	x x						Fluo: 1.0
10	8	225	Max	✓	15	x		x		x x		x x							Fluo: 2.6
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Version: 25 Nov 2014

Transducer: 100

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): MR

Bottom Depth: 146 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0010	1710
Bottom	0013	
End	0023	

Positional Information

Start	Lat: 49° 11.37	N
	Lon: 126° 49.28	W
Bottom	Lat: 49° 11.37	N
	Lon: 126° 49.25	W
End	Lat: 49° 11.38	N
	Lon: 126° 49.18	W

Extra comments:
 out-of-order

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LG06 Event #: 78 Ship: Tully UTC Date (dd|mmm|yyyy): 2 JUN 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓	Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4						
						K516L		MR	MR		MH	OC						
1	1	226	Bot-10	✓	986	x		x	x									
2	2	227	750	✓	750	x		x x	x x									
3	3	228	500	✓	500	x x		x	x									
4	4	229	400	✓	400	x		x	x									
5	5	230	300	✓	300	x		x										
6	6	231	250	✓	250	x		x										
7	7	232	200	✓	200	x		x										
8	8	233	175	✓	175	x		x										
9	9	234	150	✓	150	x		x x										
10	10	235	125	✓	125	x		x										
11	11	236	100	✓	100	x		x										
12	12	237	75	✓	74	x		x										
13	13	238	50	✓	50	x		x										
14	14	239	30	✓	30	x x		x										
15	15	240	20	✓	20	x		x		x x		x x						
16	16	241	10	✓	9	x		x		x x		x x				0.9		
17	17	242	5	✓	4	x		x		x x	x x	x x				Fluo:		
18		243	Max					x		x x	x x					Fluo: NOT USED		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR

Bottom Depth:	963	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	0158	1858
Bottom	0219	1919
End	0253	

Positional Information		
Start	Lat: 49° 03.53	N
	Lon: 127° 01.25	W

Bottom	Lat: 49° 03.56	N
	Lon: 127° 01.30	W

End	Lat: 49° 03.64	N
	Lon: 127° 01.24	W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LBP7 Event #: 81 Ship: Tully UTC Date (dd:mmm:yyyy): 2 June 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4				
1		243	bot-10	✓ 2201	x		x	x							
2		244	2000	✓	x x	x x	x	x							
3		245	1500	✓	x	x	x x	x x							
4		246	1250	✓	x	x x	x	x							Were Frozen by mistake. They are k7 frozen.
5		247	1000	✓	x	x	x	x							
6		248	750	✓	x	x	x	x							
7		249	500	✓	x		x	x							
8		250	400	✓	x x		x	x							
9		251	300	✓	x		x								
10		252	250	✓	x		x								
11		253	200	✓	x		x								
12		254	175	✓	x		x								
13		255	150	✓	x		x x								
14		256	125	✓	x		x								
15		257	100	✓	x		x								
16		258	75	✓	x		x								
17		259	50	✓	x x		x								
18		260	30	✓	x		x								
19		261	20	✓	x		x		x x		x x				
20		262	10	✓	x		x		x x		x x				Fluo:
21		263	5	✓	x		x		x x	x x	x x				Fluo:
22															
23															
24															

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): 802

Bottom Depth: 2179 m

Transmisso Cleaned: ☒ Y ☐ N

Time UTC Local

Start	1511	0811
Bottom	1550	
End	1648	

Positional Information

Start
Lat: 49 ° 52.38 N
Lon: 128 ° 11.26 WBottom
Lat: 49 ° 52.41 N
Lon: 128 ° 11.31 WEnd
Lat: 49 ° 52.55 N
Lon: 128 ° 11.59 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LBP5 Event #: 84 Ship: Tully UTC Date (dd|mmm|yyyy): 02 JUN 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target	Confirmed	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4							
			Pressure	✓ Pressure	KS/MR	MR	OC	DC	DC	KS/OC	DC							
1		264	Bot-10	✓	1287	x		x	x									
2		265	1250	✓		x	xx	x	x									
3		266	1000	✓		x	xx	x	x									
4		267	750	✓		xx	x	x	x									
5		268	500	✓		x	x	xx	xx									
6		269	400	✓		x		x	x									
7		270	300	✓		x		x										
8		271	250	✓		x		x										
9		272	200	✓		x		x										
10		273	175	✓		x		x										
11		274	150	✓		x		x										
12		275	125	✓		xx		x										
13		276	100	✓		x		xx										
14		277	75	✓		x		x										
15		278	50	✓		x		x										
16		279	30	✓		x		x										
17		280	20	✓		x		x		xx	xx	xx						Fluo: 1.7
18		281	10	✓		x		x		xx		xx						Fluo: 0.7
19		282	5	✓		xx		x		xx	xx	xx						Fluo: 0.5
20																		Fluo:
21																		
22																		
23																		
24																		

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR

Bottom Depth: 1290 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1918	1218
Bottom	1945	
End	2030	

Positional Information
Start
Lat: 49° 59.97 N
Lon: 128° 00.22 W

Bottom
Lat: 50° 00.02 N
Lon: 128° 00.36 W

End
Lat: 49° 59.99 N
Lon: 128° 00.61 W

Extra comments:
Sample

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: LBP3 Event #: 87 Ship: Tully UTC Date (dd|mmm|yyyy): 02 | JUN | 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	DO	HH				
1		283	Bot-10	✓	152	x		x				x x						
2		284	150	✓	152	x		x				xx						
3		285	125	✓	125	x x		x				x x						
4		286	100	✓	100	x		x				x x						
5		287	75	✓	75	x		x				xx						
6		288	50	✓	50	x		x				xxx						
7		289	30	✓		x		x				x x						
8		290	20	✓		x		x x	x x	x x	x x	xx					Fluo: 1.3 MAX	
9		291	10	✓		x		x	x x		x x	x x					Fluo: 1.0	
10		292	5	✓		x		x	x x	x x	x x	x x					Fluo: 0.8	
11																	Fluo:	
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): HRBottom Depth: 164 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2226	1526
Bottom	2230	
End	2242	

Positional Information
Start
Lat: 50° 03.20 N
Lon: 127° 55.22 WBottom
Lat: 50° 03.24 N
Lon: 127° 55.24 WEnd
Lat: 50° 03.27 N
Lon: 127° 55.30 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38

Station: CS00

Event #: 100

Ship: Tully

UTC Date (dd/mm/yyyy): 3 June 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4							
1		293	2000	✓ 2005	x	x	x	x										
2		294	1500	✓	x	xx	x	x										
3		295	1250	✓	x	x	x	x										
4		296	1000	✓	x	x	x	x										
5		297	750	✓	xx	x	x	x										
6		298	500	✓	x	x	x	x										
7		299	400	✓	x	x	xx	xx										
8		300	300	✓	x	x	x											
9		301	250	✓	x	x	x											
10		302	200	✓	x	x	x											
11		303	175	✓	x	x	x											
12		304	150	✓	x	x	x											
13		305	125	✓	xx	x	x											
14		306	100	✓	x	x	x											
15		307	75	✓	x	x	x											
16		308	50	✓	x	x	xx											
17		309	30	✓	x	x	x											
18		310	20	✓	x	x	x		xx		xx							
19		311	10	✓	xx	x	x		xx		xx							
20		312	5	✓	x	x	x		xx	xx	xx						Fluo: 1.0	
21		313	Max	✓ 35					xx	xx							Fluo: 1.7	
22																		
23																		
24																		

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): SR

Bottom Depth: 2175 mTransmisso Cleaned: ☒ Y ☐ N

	UTC	Local
Start	1453	0753
Bottom	1521	
End	1613	

Positional Information

Start
Lat: 50 ° 27.70 N
Lon: 129 ° 54.92 W

Bottom
Lat: 50 ° 27.73 N
Lon: 129 ° 54.95 W

End
Lat: 50 ° 27.70 N
Lon: 129 ° 55.03 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: CS02 Event #: 106 Ship: Tully UTC Date (dd/mm/yyyy): 03 JUN 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments					
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4									
						25/10/11		26		60		60								
1		314	Bot-10	✓	1910	x		x	x											
2		315	1500	✓	1500	x	xx	xx	xx											
3		316	1250	✓	1250	x	x	x	x											
4		317	1000	✓	1000	x	x	x	x											
5		318	750	✓	750	xx	x	x	x											
6		319	500	✓	500	x	x	x	x											
7		320	400	✓	400	x		x	x											
8		321	300	✓	300	x		x												
9		322	250	✓	250	x		x												
10		323	200	✓	200	x		xx												
11		324	175	✓	175	x		x												
12		325	150	✓	150	xx		x											leaky spigot	
13		326	125	✓	125	x		x												
14		327	100	✓	100	x		x												
15		328	75	✓	75	x		x												
16		329	50	✓	50	x		x												
17		330	30	✓	30	x		x		xx	xx								Fluo: 1.465	
18		331	20	✓	20	x		x		xx		xx							Fluo: 1.53	
19		332	10	✓	10	x		x		xx		xx								
20		333	5	✓	5	x		x		xx	xx	xx							Fluo:	
21		334	Max							xx	xx								Fluo: NOT USED	
22																				
23																				
24																				

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): MR

Bottom Depth: 1902 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2305	1605
Bottom	2342	
End	0039	1739

Positional Information

Start Lat: 50°41.23 N

Start Lon: 129°28.02 W

Bottom Lat: 50°41.22 N

Bottom Lon: 129°28.01 W

End Lat: 50°41.30 N

End Lon: 129°27.95 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID:

2013-13

Station:

CS04

Event #:

109

Ship:

Tully

UTC Date (dd:mmm/yyyy): 04 JUN 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4				
1	1	334	Bot-10	✓	88	x		x							
2	2	335	75	✓	75	x		x							
3	3	336	50	✓	50	x		x							
4	4	337	30	✓	30	xx		x							Fluo: 3.1 MAX
5	5	338	20	✓	20	x		x	xx		xx				Fluo: 2.4
6	6	339	10	✓	10	x		x	xx		xx				Fluo: 2.6
7	7	340	5	✓	5	x		xx	xx	xx	xx				Fluo: NOT USED
8		341	Max						xx	xx					
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR

Bottom Depth: 98 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0250	1950
Bottom	0254	
End	0300	

Positional Information

Start
Lat: 50° 49.46 N
Lon: 129° 13.01 W

Bottom
Lat: 50° 49.46 N
Lon: 129° 13.01 W

End
Lat: 50° 49.47 N
Lon: 129° 13.04 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID:

(2013-38)
2012-59

Station:

CS06

Event #:

119

Ship:

Tully

UTC Date (dd|mmm|yyyy):

4 June 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4				
1		341	Bot-10	✓ 58	x		x x								
2		342	50		x x		x								
3		343	30		x		x								
4		344	20		x		x		x x		x x				
5		345	10		x		x		x x		x x				
6		346	5		x		x		x x	x x	x x				Fluo: ≈ 4.0
7		347	Max						x x	x x					Fluo: no max
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:

☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s):

SR

Bottom Depth:

65 m

Transmisso Cleaned:

☒ Y ☐ N

Time

UTC

Local

Start

1537 0837

Bottom

1539

End

1545

Positional Information

Start

Lat: 50 ° 59.94 N

Lon: 128 ° 51.46 W

Bottom

Lat: 50 ° 59.94 N

Lon: 128 ° 51.46 W

End

Lat: 50 ° 59.94 N

Lon: 128 ° 51.44 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2013-38 Station: CS09 Event #: 125 Ship: Tully UTC Date (dd mmm yyyy): 4 JUN 2013

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials												Comments	
			Target Pressure	Confirmed ✓	Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4							
						MR/HH		MR		MR	HH	HH							
1	1	348	Bot-10	✓	185	x		x											
2	2	349	175	✓	175	x		x											
3	3	350	150	✓	150	x		x											
4	4	351	125	✓	125	x		xx											
5	5	352	100	✓	100	x		x											
6	6	353	75	✓	75	x		x											
7	7	354	50	✓	50	xx		x											
8	8	355	30	✓	30	x		x											
9	9	356	20	✓	20	x		x		xx		xx						Fluo: 0.8	
10	10	357	10	✓	10	x		x		xx		xx						Fluo: 2.9	
11	11	358	5	✓		x		x		xx	xx	xx						Fluo: 1.9	
12		359	Max					x		xx	xx							Fluo: NOT USED	
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR

Bottom Depth: 195 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2212	1512
Bottom	2216	
End	2229	

Positional Information

Lat:	51° 12.49	N
Lon:	128° 28.04	W

Start

▼

Lat:	51° 12.47	N
Lon:	128° 28.07	W

Bottom

▼

Lat:	51° 12.39	N
Lon:	128° 28.05	W

End

Extra comments:
OXY SAMPLED 11→1