

Water Properties Group

Sampling Log

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

Cruise ID: 2017-05 Station: NL03 Event #: 147 Ship: Tully UTC Date (dd mmm/yyyy): 01 JUNE 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	UVic	gases UBC	DA			
1	4	370	20	✓ 20			x		x x		xy						
2	5	371	10	✓ 10			x		x x		xy						
3	6	372	5	✓ 5			x		x x	xx	xy			x			Fluo:
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): CA

Bottom Depth: 292 m
Transmisso Cleaned: 51 N

Time	UTC	Local
Start	1302	0602
Bottom	1306	0606
End	1313	0613

Positional Information
Start
Lat: 51 ° 48.08 N
Lon: 129 ° 39.83 W

Bottom
Lat: 51 ° 48.07 N
Lon: 129 ° 39.81 W

End
Lat: 51 ° 48.10 N
Lon: 129 ° 39.79 W

Extra comments:

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-05 Station: NL04 Event #: 149 Vessel: TULLY UTC Date (dd|mmm|yyyy): 01 | JUN | 2017

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)														Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a											
1		999	5																
2																			
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 (default) | TrMetlRos | X-Niskin
Watchkeeper(s):

CS

Bottom Depth: 169 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	15:41	:
Bottom (BO)	15:43	:
End (EN)	15:47	:

Positional Information

Start

Lat: 51° 55 . 94 N
Lon: 129° 12 . 01 W

Bottom

Lat: 51° 55 . 91 N
Lon: 129° 11 . 98 W

Finish

Lat: 51° 55 . 89 N
Lon: 129° 11 . 95 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling Log

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

Cruise ID: 2017-05 Station: NL05 Event #: 150 Ship: Tully UTC Date (dd mmm yyyy): 01 JUN 2017

Rosette Operation		Samples Taken / Sampler's Initials												Comments	
Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	UVic	gases UBC	DA				

1	4	373	20	✓	20			x		xx					
2	5	374	10	✓	10			x		xx					
3	6	375	5	✓	5			x		xx	xx		x	Fluo: 2.8	
	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): CS

Bottom Depth: 44 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	18 04	11 04
Bottom	18 05	11 05
End	18 09	11 09

Positional Information
Start
Lat: 51 ° 40 27 N
Lon: 178 ° 54 42 W

Bottom
Lat: 51 ° 40 25 N
Lon: 178 ° 54 43 W

End
Lat: 51 ° 40 20 N
Lon: 178 ° 54 43 W

Extra comments:

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-05 Station: QCS1 Event #: 153 Vessel: TULLY UTC Date (dd|mmm|yyyy): 01|JUN|2017

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1	1	376	5	✓ 5														ALYSA
2																		
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 (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
MR

Bottom Depth: 135 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

	Time	UTC	Local
Start (BE)	<u>20:48</u>	<u>13:48</u>	
Bottom (BO)	<u>20:51</u>		
End (EN)	<u>20:54</u>		

Positional Information

Lat:	<u>51° 42.23</u>	N
Lon:	<u>128° 14.28</u>	W

▼

Lat:	<u>51° 42.22</u>	N
Lon:	<u>128° 14.24</u>	W

▼

Lat:	<u>51° 42.21</u>	N
Lon:	<u>128° 14.23</u>	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling Log

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

Cruise ID: 2017-05 Station: 14 Event #: 161 Ship: Tully UTC Date (dd mmm yyyy): 02 JUN 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target	Confirmed	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto					
			Pressure	✓ Pressure													
1		377	20	✓	20			xx	xx								6.4 not sampled for HPLC
2		378	10	✓	10			xx	xx								~100
3		379	0	✓	1.7			xx	xx	xx							FLUO: ~5 ↓ -56 ↑
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	File:
21																	
22																	
23																	
24																	

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): MR

Bottom Depth: 311 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	2054	1354
Bottom	2059	
End	2108	

Positional Information

Start

Lat: 49° 52' 91" N

Lon: 124° 59' 69" W

Bottom

Lat: 49° 52' 90" N

Lon: 124° 59' 70" W

End

Lat: 49° 52' 91" N

Lon: 124° 59' 71" W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-05 Station: 11 Event #: 164 Ship: Tully UTC Date (dd mmm yyyy): 03 JUN 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target	Confirmed	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto	DIC	DMS			
			Pressure	✓ Pressure	KS/SH								N ²	UBC			
1		380	b-10	✓	290	x	xx	x					x				
2		381	200	✓		x		x					x	x			
3		382	150	✓		x		x					x	x			
4		383	125	✓		x		x					x				
5		384	100	✓		x	x	x					xx	x			
6		385	75	✓		x		x					x	x			
7		386	50	✓		xx		x					x	x			
8		387	40	✓		x		x					x				
9		388	30	✓		x		xx					xx	x			
10		389	20	✓		x		x	xx				x	x			
11		390	10	✓		x		x	xx				x	x			
12		391	5	✓		x		x					x	x			
13		392	0	✓		x		x	xx	xx		x					Fluo: ~4.6 4.6↑
14																	
15																	
16																	
17																	
18																	
19																	
20																	Fluo:
21																	
22																	
23																	
24																	

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

Bottom Depth: 300 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0013	1713
Bottom	0019	
End	0036	

Positional Information
Start
Lat: 49° 42.42 N
Lon: 124° 43.46 W

Bottom
Lat: 49° 42.42 N
Lon: 124° 43.44 W

End
Lat: 49° 42.41 N
Lon: 124° 43.48 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-05 Station: CPF2 Event #: 166 Ship: Tully UTC Date (dd mmm/yyyy): 03 JUN 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto				
1		393	20	✓ 20			x		xx							
2		394	10	✓ 10			x		xx							
3		395	0	✓ 1.1			xx		xx	xx						FLuo: ~13 ↓ ~12 ↑
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																Fluo:
21																
22																
23																
24																

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): MR

Bottom Depth: 325 m

Transmisso Cleaned: (Y) / N

	UTC	Local
Start	0315	2015
Bottom	0321	
End	0330	

Positional Information

Start

Lat: 49 ° 28 06 N

Lon: 124 ° 30 00 W

Bottom

Lat: 49 ° 28 14 N

Lon: 124 ° 29 57 W

End

Lat: 49 ° 28 10 N

Lon: 124 ° 30 03 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2017-05

Station:

CPF1

Event #: 168

Ship:

Tully

UTC Date (dd:mmm:yyyy): 03 JUN 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto				
1		396	20	☒ 20			x		xx							
2		397	10	☒ 10			xx		xx							
3		398	0	☒ 1.5			x		xx	xx						Fluo ~10 ↓ ~11 ↑
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																Fluo:
20																
21																
22																
23																
24																

Profile type:

☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s):

MR

Bottom Depth: 243 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0604	2304
Bottom	0609	
End	0616	

Positional Information

Lat:	49° 21.98	N
Lon:	124° 04.98	W

Lat:	49° 21.97	N
Lon:	124° 04.97	W

Lat:	49° 21.98	N
Lon:	124° 04.96	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-05 Station: 22 Event #: 170 Ship: Tully UTC Date (dd mmm yyyy): 03 JUN 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto	DMS			
1		399	b-10	✓ 347	x	x x	x									
2		400	200	✓ 200	x x		x						x			
3		401	150	✓ 150	x		x x						x			
4		402	100	✓ 100	x		x						x			
5		403	75	✓ 75	x x		x						x			
6		404	50	✓ 50	x		x x						x			
7		405	40	✓ 40	x		x									
8		406	30	✓ 30	x	x	x						x			
9		407	20	✓ 20	x		x		x x				x			
10		408	10	✓ 10	x		x		x x				x			
11		409	5	✓ 5	x		x						x			
12		410	0	✓ 0	x		x		x x	x x		x				
13																
14																
15																
16																
17																
18																
19																
20															Fluo: 3.2	
21																
22																
23																
24																

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

Bottom Depth: 352 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0359	0159
Bottom	0906	0206
End	0924	0224

Positional Information
Start
Lat: 49 ° 40.26 N
Lon: 124 ° 16.44 W

Bottom
Lat: 49 ° 40.29 N
Lon: 124 ° 16.44 W

End
Lat: 49 ° 40.29 N
Lon: 124 ° 16.44 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-05 Station: 24 Event #: 172 Ship: Tully UTC Date (dd:mmm:yyyy): 03 JUNE 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto			
1		411	20	✓ 20			xx		xx						
2		412	10	✓ 10			x		xx						
3		413	0	✓ 0			x		xx	xx					
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															Fluo:
21															
22															
23															
24															

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): CS

Bottom Depth: 425 m

Transmisso Cleaned: Y N

	UTC	Local
Start	11 16	0416
Bottom	11 23	0423
End	11 34	0434

Positional Information

Start

Lat: 49 ° 30.28 N

Lon: 124 ° 05.98 W

Bottom

Lat: 49 ° 30.30 N

Lon: 124 ° 06.00 W

End

Lat: 49 ° 30.32 N

Lon: 124 ° 06.01 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-05 Station: 28 Event #: 174 Ship: Tully UTC Date (dd mmm yyyy): 03 JUNE 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto			
12	2	414	20	✓ 20			x		xx						
13	3	415	10	✓ 10			xx		xx						
14	4	416	0	✓ 0			x		xx	xx					
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															Fluo:
21															
22															
23															
24															

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

Bottom Depth: 135 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1340	0640
Bottom	1344	0644
End	1350	0650

Positional Information
Start
Lat: 49 ° 24.09 N
Lon: 123 ° 45.28 W

Bottom
Lat: 49 ° 24.10 N
Lon: 123 ° 45.31 W

End
Lat: 49 ° 24.09 N
Lon: 123 ° 45.30 W

Extra comments:
Fired btl 1 at bottom as a reflex...
oops.

Water Properties Group

Sampling Log

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

Cruise ID: 2017-05 Station: GEO1 Event #: 177 Ship: Tully UTC Date (dd:mmm:yyyy): 03/06/2017

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓	Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto	DMS					
1		414	b-10	✓	392	x	xx	x						x					
2		415	200	✓	200	x		x						x					
3		416	150	✓	150	xx		xx						x					
4		417	100	✓	100	x		xx						x					
5		418	75	✓	75	x		x						x					
6		419	50	✓	50	x		x						x					
7		420	40	✓	40	xx		x											
8		421	30	✓	30	x	x	x						x					
9		422	20	✓	20	x		x		xx				x					
10		423	10	✓	10	x		x		xx				x					
11		424	5	✓	5	x		x						x					
12		425	0	✓	1	x		x		xx	xx		x						
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			Fluo:
21																			
22																			
23																			
24																			

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

Watchkeeper(s): DY (CS)

Bottom Depth: 397 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1618	0918
Bottom	1625	
End	1643	

Positional Information

Start Lat: 49 ° 15.07 N

Start Lon: 123 ° 45.09 W

Bottom Lat: 49 ° 15.16 N

Bottom Lon: 123 ° 45.07 W

End Lat: 49 ° 15.17 N

End Lon: 123 ° 45.09 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-05 Station: 38 Event #: 180 Ship: Tully UTC Date (dd|mmm|yyyy): 03 JUN 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto					
1		426	20	✓ 20			x		xx								
2		427	10	✓ 10			x		xx								
3		428	0	✓ 1.4			xx		xx	xx							FLUO: 3.5 ↓ 2.5
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: 305 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1933	1233
Bottom	1939	
End	1947	

Positional Information

Start	Lat: 49° 11.96	N
	Lon: 123° 26.35	W
Bottom	Lat: 49° 11.95	N
	Lon: 123° 26.31	W
End	Lat: 49° 11.97	N
	Lon: 123° 26.31	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-05 Station: 41

Event #: 182

Ship: Tully

UTC Date (dd mmm/yyyy): 03 JUN 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto	DIC	DMS			
1		429	b-10	✓ 236	x		x						x				
2		430	200	✓ 200	x		xx						xx				
3		431	150	✓ 150	x		x						x				
4		432	125	✓ 125	x		x						x				
5		433	100	✓ 100	x		x						x				
6		434	75	✓ 75	x		x						x				
7		435	50	✓ 50	x		x						x				
8		436	40	✓ 40	x		x						x				
9		437	30	✓ 30	x		xx						x				
10		438	20	✓ 20	x		x		xx				x				
11		439	10	✓ 10	xx		x		xx				x				
12		440	5	✓ 5	x		x						x				
13		441	0		xx		x		xx	xx		x	x				
14																	FLUO: 0.5 ↓ 1.3
15																	
16																	
17																	
18																	
19																	
20																	
21																	Fluo:
22																	
23																	
24																	

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

Bottom Depth: 245 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2125	1425
Bottom	2129	
End	2146	

Positional Information

Lat:	49° 03' 29"	N
Lon:	123° 22' 40"	W

Start

Lat:	49° 03' 30"	N
Lon:	123° 22' 43"	W

Bottom

Lat:	49° 03' 23"	N
Lon:	123° 22' 44"	W

End

Extra comments: