

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

UTC Date (dd|mmm|yyyy): 4 | SEP | 2017

<http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/>

Water Properties Group

Sampling Log

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

Cruise ID:

2017-09

Station:

LJ06

Event #:

104

Ship:

Tully

UTC Date (dd|mmm|yyyy):

5 | Sep | 2017

Cruise ID: 2017-09			Station: E000		Event ID: 1										Comments						
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials																
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	gases	UBC								
1	1	303	5	✓	5									xx							
2																					
3																					
4																					
5																		Fluo:			
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					
21																					
22																					
23																					
24																					

http://www.pac

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

Bottom Depth: 1011 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	02 37	R 37
Bottom	0254	
End	0312	

Positional Information

Lat:	49 ° 27 93	N
Lon:	127 ° 28 59	W

Start

Lat:	49 ° 28 01	N
Lon:	127 ° 28 62	W

Bottom

Lat:	49 ° 28 06	N
Lon:	127 ° 28 69	W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09 Station: LJ09 Event #: 108 Ship: Tully UTC Date (dd|mmm|yyyy): 5 | 9 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ☒	Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	gases	UBC				
1		304	5	✓	5								xx					
2																		
3																		
4																		
5																Fluo: 0.91		
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): H.M.

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

Time	UTC	Local
Start	0759	0059
Bottom	0834	
End	0909	

Positional Information
Start
Lat: 49 ° 16 10 N
Lon: 127 ° 47 25 W

Bottom
Lat: 49 ° 16 11 N
Lon: 127 ° 47 13 W

End
Lat: 49 ° 16 11 N
Lon: 127 ° 47 09 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09

Station: LBP8

Event #: 110

Ship: Tully

UTC Date (dd|mmm|yyyy): 5 | 9 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	gases UBC	UVic	phyto	DA			
1		305	250	✓ 250									x					
2		306	150	✓									x					
3		307	50	✓									x					
4		308	20	✓									x					
5		309	10	✓									x					
6		310	5	✓								xx	x					
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): H.M.

Bottom Depth:	2064	m
Transmisso Cleaned:	☒ Y / ☐ N	

Time	UTC	Local
Start	1330	0638
Bottom	1416	
End	1456	

Positional Information		
Start	Lat: 49 ° 48 60	N
	Lon: 128 ° 16 80	W

Bottom	Lat: 49 ° 48 58	N
	Lon: 128 ° 16 86	W

End	Lat: 49 ° 48 62	N
	Lon: 128 ° 16 96	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2017-09

Station:

LBP7

Event #:

114

Ship:

Tully

UTC Date (dd|mmm|yyyy):

51 9 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	gases	UVic	phyto	DA		
1	1	311	2000	✓ 2000	x	xx	x	x									
2	2	312	1500	✓ 1500	xx	xx	x	x									
3	3	313	1250	✓ 1250	x	xx	x	x									
4	4	314	1000	✓ 1000	x	x	xx	xx									
5	5	315	750	✓ 750	x	x	x	x									
6	6	316	500	✓ 500	x	x	x	x									
7	7	317	400	✓ 400	x	x	x	x									
8	8	318	300	✓ 300	x	x	x										
9	9	319	250	✓ 250	x	x	x										
10	10	320	200	✓ 200	xx	x	x										
11	11	321	175	✓ 175	x	x	x										
12	12	322	150	✓ 150	x	x	x										
13	13	323	125	✓ 125	x	x	x										
14	14	324	100	✓ 100	x	x	x										
15	15	325	75	✓ 75	x	x	xx										
16	16	326	50	✓ 50	x	x	x										
17	17	327	30	✓ 30	x	x	x										
18	18	328	20	✓ 20	xx	x	x		xx		xx						
19	19	329	10	✓ 10	x	x	x		xx		xx						
20	20	330	5	✓ 5	x	x	x										
21	21	331	5	✓ 5			x		xx	xx	xx			xxx	x		Fl: <2
22																	
23																	
24																	

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

H.M./M.B.

Bottom Depth:

2190 m

Transmisso Cleaned:

Y N

Time

UTC

Local

Start

1829

1129

Bottom

1903

End

1953

Positional Information

Lat:

49 ° 52 44 N

Lon:

128 ° 11 13 W

Lat:

49 ° 52 46 N

Lon:

128 ° 11 06 W

Lat:

49 ° 52 44 N

Lon:

128 ° 10 81 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09 Station: LBP5 Event #: 117 Ship: Tully UTC Date (dd|mmm|yyyy): 5 | Sep | 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	gases UBC	UVic	phyto	DA			
1	1	332	Bot-10	✓ 1282	x		x	x										
2	2	333	1250	✓ 1250	x	x	x	x										
3	3	334	1000	✓ 1000	x	x	xx	xx										
4	4	335	750	✓ 750	x		x	x										
5	5	336	500	✓ 500	x		x	x										
6	6	337	400	✓ 400	xx		x	x										
7	7	338	300	✓ 300	x		x											
8	8	339	250	✓ 250	x		x					xx						
9	9	340	200	✓ 200	x		x					xx						
10	10	341	175	✓ 175	x		x											
11	11	342	150	✓ 150	x		x					xx						
12	12	343	125	✓ 125	x		x											
13	13	344	100	✓ 100	x		x					xx						
14	14	345	75	✓ 75	x		x											
15	15	346	50	✓ 50	x		xx					xx						
16	16	347	30	✓ 30	xx		x					xx						
17	17	348	20	✓ 20	x		x		xx		xx							
18	18	349	10	✓ 10	x		x		xx		xx							
19	19	350	5	✓ 5	x		x		xx	xx	xx	xx						L2
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 1274 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	<u>22 16</u>	<u>1516</u>
Bottom	<u>2237</u>	
End	<u>2314</u>	

Positional Information

Start	Lat: <u>49 ° 59 96</u> N
	Lon: <u>128 ° 0 01</u> W
Bottom	Lat: <u>49 ° 59 92</u> N
	Lon: <u>128 ° 0 12</u> W
End	Lat: <u>49 ° 59 89</u> N
	Lon: <u>128 ° 0 08</u> W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2017-09

Station:

LBP3

Event #:

121

Ship:

Tully

UTC Date (dd|mmm|yyyy):

6 | Sep | 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	CHL	HPLC	NH4	gases UBC	UVic	phyto	DA					
1	1	351	bot-10	✓ 155	x		x												
2	2	352	150	✓ 150	x		xx					x							
3	3	353	125	✓ 125	x		x												
4	4	354	100	✓ 100	x		x					x							
5	5	355	75	✓ 75	x		x												
6	6	356	50	✓ 50	x		x					x							
7	7	357	30	✓ 30	x		x												
8	8	358	20	✓ 20	x		x	xx		xx		x							
9	9	359	10	✓ 10	x		x	xx		xx		x							
10	10	360	5	✓ 5	xx	x	x				xx	x							
11	11	361	5	✓ 5			x	xx	xx	xx			xxx	x					
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: _____ m

Transmisso Cleaned: Y / N

Time

UTC

Local

Start

0125

1825

Bottom

0127

End

0139

Positional Information

Lat: 50 ° 03 22 N

Lon: 127 ° 55 25 W

Lat: 50 ° 03 22 N

Lon: 127 ° 55 26 W

Lat: 50 ° 03 15 N

Lon: 127 ° 55 34 W

Extra comments:

Also has loops:

2x Oxy, 1x Sal, 2x Chl, 1x Nut

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09 Station: CS00 Event #: 136 Ship: Tully UTC Date (dd|mmm|yyyy): 6 | Sep | 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	UVic	gases	DA	TRM	
1	1	362	2000	✓ 2000	x	x	x	x									
2	2	363	1500	✓ 1500	x	xx	xx	xx									
3	3	364	1250	✓ 1250	x	xx	x	x									
4	4	365	1000	✓ 1000	x	xx	x	x									
5	5	366	750	✓ 750	xx	x	x	x									
6	6	367	500	✓ 500	x	x	x	x									
7	7	368	400	✓ 400	x	x	x	x									
8	8	369	300	✓ 300	x	x	x										
9	9	370	250	✓ 250	x	x	x							xx			
10	10	371	200	✓ 200	x	x	xx							xx			
11	11	372	175	✓ 175	x	x	x										
12	12	373	150	✓ 150	xx	x	x							xx			
13	13	374	125	✓ 125	x	x	x										
14	14	375	100	✓ 100	x	x	x							xx			
15	15	376	75	✓ 75	x	x	x										
16	16	377	50	✓ 50	x	x	x							xx			
17	17	378	30	✓ 30	x	x	x							xx			
18	18	379	20	✓ 20	xx	x	x		xx		xx						
19	19	380	10	✓ 10	x	x	x		xx		xx						
20	20	381	5	✓ 5	x	x	x							xx			Fluo: L2
21	21	382	5	✓ 5			x		xx	xx	xx	x			x		
22																	
23																	
24																	

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

Bottom Depth: 2170 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	19 25	12 25
Bottom	2002	
End	2056	

Positional Information

Lat:	50 ° 27 76	N
Lon:	129 ° 55 51	W

Start

Lat:	50 ° 28 04	N
Lon:	129 ° 55 56	W

Bottom

Lat:	50 ° 28 46	N
Lon:	129 ° 55 58	W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09 Station: CS02 Event #: 140 Ship: Tully UTC Date (dd|mmm|yyyy): 7 Sep 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	UVic	Grn		
1	1	383	Bot-10	✓ 1908	x		x	x								
2	2	384	1500	✓ 1500	x	x	xx	xx								
3	3	385	1250	✓ 1250	x	x	x	x								
4	4	386	1000	✓ 1000	x		x	x								
5	5	387	750	✓ 750	xx		x	x								
6	6	388	500	✓ 500	x		x	x								
7	7	389	400	✓ 400	x		x									
8	8	390	300	✓ 300	x		x									
9	9	391	250	✓ 250	x		x						x			
10	10	392	200	✓ 200	x		xx									
11	11	393	175	✓ 175	x		x									
12	12	394	150	✓ 150	xx		x						x			
13	13	395	125	✓ 125	x		x									
14	14	396	100	✓ 100	x		x									
15	15	397	75	✓ 75	x		x									
16	16	398	50	✓ 50	x		x						x			
17	17	399	30	✓ 30	x		x									
18	18	400	20	✓ 20	xx		x		xx		xx		x			
19	19	401	10	✓ 10	x		x		xx		xx		x			
20	20	402	5	✓ 5	x	x	x		xx	xx	xx					Fluo: 2-5
21	21	403	5	✓ 5									x	x		
22																
23																
24																

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

Bottom Depth: 1893 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	01 27	18 27
Bottom	01 59	
End	02 46	

Positional Information

Lat:	50 ° 41 31	N
Lon:	129 ° 27 98	W

Start

Lat:	50 ° 41 27	N
Lon:	129 ° 28 00	W

Bottom

Lat:	50 ° 41 32	N
Lon:	129 ° 27 99	W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09 Station: CS04 Event #: 145 Ship: Tully UTC Date (dd|mmm|yyyy): 20 | 7 | 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	gases	UBC						
				✓															
1	1	404	Bot-10	✓ 87	x		x												
2	2	405	75	✓ 75	x		x												
3	3	406	50	✓ 50	x		x												
4	4	407	30	✓ 30	xx		x												
5	5	408	20	✓ 20	x		x		xx		xx								
6	6	409	10	✓ 10	x		x		xx		xx								
7	7	410	5	✓ 5	x		xx		xx	xx	xx						Fluo: 2-5		
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: 95 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	05:40	2240
Bottom	05:42	
End	05:50	

Positional Information

Lat:	50 ° 49 29	N
Lon:	129 ° 12 97	W

Start

▼

Lat:	50 ° 49 33	N
Lon:	129 ° 12 95	W

Bottom

▼

Lat:	50 ° 49 43	N
Lon:	129 ° 12 90	W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09 Station: NewODAS Event #: 147 Ship: Tully UTC Date (dd|mmm|yyyy): 7 | 9 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓	Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	gases	UBC	
1		411	5										x x		
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 ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): H.M

Bottom Depth: 2104 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0941	0241
Bottom	1012	
End	1044	

Positional Information

Start

Lat: 50 ° 56 38 N

Lon: 129 ° 58 79 W

Bottom

Lat: 50 ° 56 49 N

Lon: 129 ° 58 79 W

End

Lat: 50 ° 56 49 N

Lon: 129 ° 58 90 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09 Station: CS06 Event #: 156 Ship: Tully UTC Date (dd|mmm|yyyy): 7 | SEP | 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	DA	gases UBC						
1	1	412	Bot-10	✓ 55	x		x x													
2	2	413	50	✓ 50	x x		x													
3	3	414	30	✓ 30	x		x													
4	4	415	20	✓ 20	x		x		x x		x x									
5	5	416	10	✓ 10	x		x		x x		x x									
6	6	417	5	✓ 5	x	x	x							x x			Fluo: 2-5			
7	7	418	5	✓ 5			x		x x	x x	x x	x	x							
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): MB

Bottom Depth: 65 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	19:30	12:30
Bottom	19:31	
End	19:32	

Positional Information
Start
Lat: 50 ° 59 91 N
Lon: 128 ° 51 70 W

Bottom
Lat: 50 ° 59 92 N
Lon: 128 ° 51 66 W

End
Lat: 50 ° 59 91 N
Lon: 128 ° 51 66 W

Extra comments:
Loops
2x Oxy, 2x CHL, 1x Sal, 1x Nut

Water Properties Group

Sampling Log

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

Cruise ID:

2017-09

Station:

CS09

Event #:

163

Ship:

Tully

UTC Date (dd|mmm|yyyy):

7 SEP 2017

Cruise ID: 2017-09			Station: CS09		Event in: 1												Comments				
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										gases	UBC					
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	UVic									
1	1	419	Bot-10	✓ 187	x		x														
2	2	420	175	✓ 175	x		x														
3	3	421	150	✓ 150	x		x						x								
4	4	422	125	✓ 125	x		xx														
5	5	423	100	✓ 100	x		x						x								
6	6	424	75	✓ 75	x		x														
7	7	425	50	✓ 50	xx		x						x								
8	8	426	30	✓ 30	x		x														
9	9	427	20	✓ 20	x		x		xx		xx	x									
10	10	428	10	✓ 10	x		x		xx		xx	xx									
11	11	429	5	✓ 5			x		xx	xx	xx							Fluo: ~2 (with offset 22)			
12	12	430	5	✓ 5	x		x					xx	xx								
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					
21																					
22																					
23																					
24																					

http://www.pa

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

Bottom Depth:

195 m

Transmissio Cleaned:

Y / N

Time

UTC

Local

Start

73 08

1608

Bottom

23 11

End

23 24

Positional Information

Lat:

51 ° 12

52 N

Lon:

128 ° 28

12 W

Lat:

51 ° 12

50 N

Lon:

128 ° 28

13 W

Lat:

51 ° 12

47 N

Lon:

128 ° 28

18 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09 Station: SS3 Event #: 171 Ship: Tully UTC Date (dd|mmm|yyyy): 7⁸ Sep 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	1	431	20	281			x		xx		xx					→ Fired Mistakenly		
2	3	432	10	10			x		xx		xx							
3	4	433	5	5			x		xx	xx	xx		xx	x		Fluo: <2		
4	2	431	20	20			x		xx		xx							
5																		
6																		
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18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 290 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	06:23	23:23
Bottom	06:29	
End	06:38	

Positional Information

Lat:	51 ° 15 07 N
Lon:	129 ° 21 19 W

▼

Lat:	51 ° 15 07 N
Lon:	129 ° 21 20 W

▼

Lat:	51 ° 15 10 N
Lon:	129 ° 21 12 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2017-09

Station:

SS1

Event #:

175

Ship:

Tully

UTC Date (dd|mmm|yyyy):

8 | 9 | 17

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		434	20	☒ 20			x		xx		xx							
2		435	10	☒			x		xx		xx							
3		436	5	☒			x		xx	xx	xx		xx	x			Fluo:	
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): H.M.

Bottom Depth:	491	m
Transmisso Cleaned:	☒ Y	☐ N

Time	UTC	Local
Start	10 46	03 46
Bottom	10 54	
End	11 04	

Positional Information		
Start	Lat: 51 ° 11 97	N
	Lon: 130 ° 00 00	W

Bottom	Lat: 51 ° 11 98	N
	Lon: 130 ° 00 00	W

End	Lat: 51 ° 11 96	N
	Lon: 129 ° 59 95	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2017-09

Station:

NL01

Event #:

177

Ship:

Tully

UTC Date (dd|mmm|yyyy):

8 | 9 | 17

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	DA			
1		437	2005	✓ 2005		xx											
2		438	1500	✓		xx											
3		439	1000	✓		xx											Fluo: 1.77
4		440	20	✓			x		xx		xx						
5		441	10	✓			x		xx		xx						
6		442	5	✓		xx	x	x	xx	xx	xx		xx	x			ONLY 1 HPLC
7																	NO SAL
8																	(RAN OUT OF WATER)
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):

W.M.

Bottom Depth:

2193 m

Transmisso Cleaned:

(Y) / N

Time

UTC

Local

Start

15 14 08 14

Bottom

15 52

End

16 31

Positional Information

Lat:

51 ° 22 31 N

Lon:

130 ° 50 67 W

Lat:

51 ° 22 27 N

Lon:

130 ° 50 71 W

Lat:

51 ° 22 19 N

Lon:

130 ° 55 61 W

Extra comments:

Loops

2x Oxy, 2x CHL, 1x Sal, 1x Nut

Water Properties Group

Sampling Log

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

Cruise ID:

2017-09

Station:

NL03

Event #:

182

Ship:

Tully

UTC Date (dd|mmm|yyyy):

89 Sep 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	1	443	20	✓ 20			x		xx		xx						
2	2	444	10	✓ 10			x		xx		xx						Fluo: <2
3	3	445	5	✓ 5			x		xx	xx	xx		xx	x			
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: 293 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	00:03	17:03
Bottom	00:08	17:
End	00:16	17:

Positional Information
Start
Lat: 51 ° 47 93 N
Lon: 129 ° 40 00 W

Bottom
Lat: 51 ° 47 93 N
Lon: 129 ° 40 00 W

End
Lat: 51 ° 47 87 N
Lon: 129 ° 39 91 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2017-09

Station:

NL05

Event #:

186

Ship:

Tully

UTC Date (dd|mmm|yyyy):

9 Sep 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	1	446	20	✓ 20			x		x x								
2	2	447	10	✓ 11			x		x x								Fluo:
3	3	448	5	✓ 5			x		x x	x x			xx	x			
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):

mb

Bottom Depth: 43 m

Transmisso Cleaned: Y / N

Time UTC Local

Start 04 52 21

Bottom 04 52

End 04 56

Positional Information

Lat: 51 ° 40 53 N

Lon: 128 ° 54 44 W

Lat: 51 ° 40 53 N

Lon: 128 ° 54 43 W

Lat: 51 ° 40 54 N

Lon: 128 ° 54 46 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09 Station: SS5 Event #: 188 Ship: Tully UTC Date (dd|mmm|yyyy): 30|9|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		449	20	☒ 20			x		xx								
2		450	10	☒			x		xx								
3		451	5	☒	x-x	x	x		xx	xx			xx	x			Fluo:
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): H.M

Bottom Depth: 199 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0712	0012
Bottom	0716	
End	0722	

Positional Information

Lat:	51 ° 28 00	N
Lon:	128 ° 30 08	W

▼

Lat:	51 ° 28 01	N
Lon:	128 ° 30 04	W

▼

Lat:	51 ° 28 10	N
Lon:	128 ° 30 04	W

Extra comments:
Loops
2x Oxy, 2x Chl, 1x Sal, 1x Nut

Water Properties Group

Sampling Log

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

Cruise ID:

2017-09

Station:

14

Event #:

197

Ship:

Tully

UTC Date (dd|mmm|yyyy):

10 | Sep | 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	1	452	20	✓ 20			x		xx								
2	2	453	10	✓ 10			x		xx								Fluo 42
3	3	454	0	✓ 1.8			x		xx	xx							
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): MB

Bottom Depth: 312 m

Transmisso Cleaned: Y / N

Time UTC Local

Start	0533	2233
Bottom	0538	
End	0546	

Positional Information

Lat:	49 ° 52 95	N
Lon:	124 ° 59 66	W

Lat:	49 ° 52 96	N
Lon:	124 ° 59 68	W

Lat:	49 ° 52 98	N
Lon:	124 ° 59 69	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09 Station: 11 Event #: 200 Ship: Tully UTC Date (dd|mmm|yyyy): 10 | 9 | 17

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	DA		
1		455	b-10	✓ 287	x		x						x			
2		456	200	✓	x		x						x			
3		457	150	✓	x		x						x			
4		458	125	✓	xx		x						x			
5		459	100	✓	x		x						xx			
6		460	75	✓	x		xx						x			
7		461	50	✓	x		x						x			
8		462	40	✓	x		x						x			
9		463	30	✓	x		x						xx			
10		464	20	✓	x		x		xx				x			
11		465	10	✓	x		x		xx				x			
12		466	5	✓	x	x	x						x			
13		467	0	✓	x		x		xx	xx			x			Fluo: 0.75
14		468	0	✓			x		xx	xx		x	x			Buffered Formalin Phyto
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): H.M.

Bottom Depth: 295 m
Transmisso Cleaned: Y/N

Time	UTC	Local
Start	0736	0036
Bottom	0741	
End	0757	

Positional Information

Lat:	49	°	42	33	N
Lon:	124	°	43	44	W

Start

Bottom

Lat:	49	°	42	33	N
Lon:	124	°	43	44	W

End

Lat:	49	°	42	34	N
Lon:	124	°	43	57	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09

Station: CPF2

Event #: 203

Ship: Tully

UTC Date (dd|mmm|yyyy): 10 | 9 | 17

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		469	20	✓ 20			x		x x						
2		470	10	✓			x		x x						
3		471	0	✓			x		x x	x x					Fluo: 1.85
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): W.M.

Bottom Depth: 347 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	10 17	03 17
Bottom	16 23	
End	10 31	

Positional Information

Start	Lat: 49 ° 28 01	N
	Lon: 124 ° 30 03	W

Bottom

Lat: 49 ° 28 99	N
Lon: 124 ° 29 99	W

End

Lat: 49 ° 28 03	N
Lon: 124 ° 29 99	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09

Station: BS11

Event #: 207

Ship: Tully

UTC Date (dd|mmm|yyyy): 10 | 9 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	DIC	DA	phyto		
1		472	Bot-50	✓ 50	x		x					x				
2		473	40	✓	x		x					x				
3		474	30	✓	x		x x					x				
4		475	20	✓	x		x		x x			x				
5		476	10	✓	x		x		x x			x x				
6		477	5	✓	x x		x					x				
7		478	0	✓	x		x		**	**		x				Fluo: 1.3
8		479	0	✓			x		x x	x x			x	x		buffered formalin phyto.
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): H.M.

Bottom Depth: 61 m

Transmisso Cleaned: Y / N

Time UTC Local

Start 1739 10 39

Bottom 1740

End 1747

Positional Information

Start Lat: 49 ° 29.00 N

Lon: 124 ° 46 05 W

Bottom Lat: 49 ° 29 00 N

Lon: 124 ° 46 06 W

End Lat: 49 ° 29 06 N

Lon: 124 ° 46 06 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09

Station: CPF1

Event #: 209

Ship: Tully

UTC Date (dd|mmm|yyyy): 10 | Sep | 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	1	479-480	20	✓ 20			x		xx							
2	2	480-481	10	✓ 10			x		xx							
3	3	481-482	0	✓ 17			x		xx	xx					Fluo: ~2	
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): MB

Bottom Depth: 2413 m

Transmissio Cleaned: Y / N

Time UTC Local

Start	20 43	
Bottom	20 48	
End	20 54	

Positional Information

Start	Lat: 49 ° 22 00 N
	Lon: 124 ° 5 04 W
Bottom	Lat: 49 ° 21 97 N
	Lon: 124 ° 5 02 W
End	Lat: 49 ° 21 97 N
	Lon: 124 ° 5 00 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09 Station: 24 Event #: 23 Ship: Tully UTC Date (dd|mmm|yyyy): 11|SEP|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	1	483	20	✓	20			x		x x									
2	2	484	10	✓	10			x		x x									
3	3	485	0	✓	17			x		x x	x x								Fluo:
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): MB

Bottom Depth: MB m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	01:39	18:39
Bottom	01:47	
End	01:56	

Positional Information

Lat:	49 ° 30 34	N
Lon:	124 ° 5 98	W

▼

Lat:	49 ° 30 35	N
Lon:	124 ° 6 00	W

▼

Lat:	49 ° 30 36	N
Lon:	124 ° 6 04	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09 Station: 22 Event #: 211 Ship: Tully UTC Date (dd|mmm|yyyy): 10 | Sep | 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	DA					
1	1	486	b-5	✓ 347			x											
2	2	487	200	✓ 200			xx											
3	3	488	100	✓ 100			x											
4	4	489	75	✓ 75			x											
5	5	490	50	✓ 50			x											
6	6	491	40	✓ 40			x											
7	7	492	30	✓ 30			x											
8	8	493	20	✓ 20			x		xx									
9	9	494	10	✓ 10			x		xx									
10	10	495	5	✓ 5		x	x											
11	11	496	0	✓ 1.6			x		xx	xx		X	X				Fluo: 2	
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 350 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	23:27	16:27
Bottom	23:33	
End	23:47	

Positional Information

Lat:	49 ° 40	23	N
Lon:	124 ° 16	32	W

Start

Lat:	49 ° 40	22	N
Lon:	124 ° 16	32	W

Bottom

Lat:	49 ° 40	21	N
Lon:	124 ° 16	34	W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09 Station: 28 Event #: 215 Ship: Tully UTC Date (dd|mmm|yyyy): 11 | Sep | 2012

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	1	497	20	✓ 20			x		xx							
2	2	498	10	✓ 10			x		xx							
3	3	499	0	✓ 16			x		xx	xx						Fluo: 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): MB

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

Time	UTC	Local
Start	04:18	21:18
Bottom	04:20	
End	04:	

Positional Information

Lat:	49 ° 23 99	N
Lon:	123 ° 45 31	W

▼

Lat:	49 ° 23 99	N
Lon:	123 ° 45 32	W

▼

Lat:	49 ° 23 98	N
Lon:	123 ° 45 31	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09 Station: GE01 Event #: 218 Ship: Tully UTC Date (dd|mmm|yyyy): 11 SEP 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	DA		
1	1	500	b-5	✓ 358			x								
2	2	501	200	✓ 200			x								
3	3	502	100	✓ 100			x								
4	4	503	75	✓ 75			x x								
5	5	504	50	✓ 50			x								
6	6	505	40	✓ 40			x								
7	7	506	30	✓ 30			x								
8	8	507	20	✓ 20			x		x x						
9	9	508	10	✓ 10			x		x x						
10	10	509	5	✓ 5		x	x								
11	11	510	0	✓ 1.9			x		x x	x x		x	x		Fluo: 42
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Watchkeeper(s): MB

Bottom Depth: 400 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0552	2252
Bottom	0559	
End	0614	

Positional Information

Start Lat: 49° 15' 01" N

Start Lon: 123° 44' 93" W

Start

Bottom Lat: 49° 15' 00" N

Bottom Lon: 123° 44' 89" W

Bottom

End Lat: 49° 14' 93" N

End Lon: 123° 44' 79" W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09 Station: 40 Event #: 221 Ship: Tully UTC Date (dd|mmm|yyyy): 11 | 9 | 17

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		511	20	✓			x		xx							
2		512	10	✓			x		xx							
3		513	0	✓			x		xx	xx					Fluo:	
4																
5																
6																
7																
8																
9																
10																
11																
12																
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22																
23																
24																

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

Watchkeeper(s): H.N.

Bottom Depth: 157 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0816	0116
Bottom	0819	
End	0824	

Positional Information

Start

Lat: 49 ° 08 53 N

Lon: 123 ° 36 80 W

Bottom

Lat: 49 ° 08 53 N

Lon: 123 ° 36 77 W

End

Lat: 49 ° 08 52 N

Lon: 123 ° 36 74 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-09 Station: 38 Event #: 223 Ship: Tully UTC Date (dd|mmm|yyyy): 11|9|17

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		514	20	✓ 20			x		xx						
2		515	10	✓			x		xx						
3		516	0				x		xx	xx					Fluo: 3.5
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): H. J.

Bottom Depth: 304 m
Transmisso Cleaned: ☒ Y / N

Time	UTC	Local
Start	0925	0225
Bottom	0931	
End	0939	

Positional Information
Start
Lat: 49 ° 12 03 N
Lon: 123 ° 26 36 W

Bottom
Lat: 49 ° 12 04 N
Lon: 123 ° 26 31 W

End
Lat: 49 ° 12 07 N
Lon: 123 ° 26 25 W

Extra comments:

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UTC Date (dd mmm yyyy): 11 9 17

Extra comments: