

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: 11 Event #: 156 Ship: Tully UTC Date (dd mmm yyyy): 09 SEP 2018

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	HAB	DA	UVic			
1		412	250	✓ 290											x			
2		413	150	✓ 150											x			
3		414	50	✓ 50											x			
4		415	20	✓ 20			x		x						x			Fluo
5		416	10	✓ 10			x		xx						x			
6		417	5	✓ 5											x			
7		418	0	✓ 2.6			x		x	xx					x			Fluo 1.4
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): ME

Bottom Depth: 299 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2330	1630
Bottom	2336	
End	2346	

Positional Information
Start
Lat: 49° 42.45 N
Lon: 124° 43.48 W

Bottom
Lat: 49° 42.47 N
Lon: 124° 43.50 W

End
Lat: 49° 42.51 N
Lon: 124° 43.53 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: CPF2 Event #: 158 Ship: Tully UTC Date (dd mmm yyyy): 10 Sep 2018

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		419	20	✓ 20			x		x								
2		420	10	✓ 10			x		x								
3		421	0	✓ 2.7			x		x x	x x							Fluo:
4																	
5																	
6																	
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8																	
9																	
10																	
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18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Watchkeeper(s): ML

Bottom Depth: 324 m

Transmisso Cleaned: ☒ Y ☐ N

	UTC	Local
Start	0145	1845
Bottom	0152	
End	0159	

Positional Information

Start Lat: 49 ° 28.04 N
Lon: 124 ° 29.94 W

Start

Bottom

End

Lat: 49 ° 28.02 N
Lon: 124 ° 29.90 W

Lat: 49 ° 28.01 N
Lon: 124 ° 29.91 W

Extra comments:

Cruise ID: 2018-034 Station: CPF1 Event #: 160 Ship: Tully UTC Date (dd mmm yyyy): 10 SEP 2018

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		422	20	✓	20			x		x								
2		423	10	✓	10			x		xx								
3		424	0	✓	2.1			x		x	xx							Fluo:
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
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18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MRBottom Depth: 242 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0405	2105
Bottom	0410	
End	0416	

Positional Information
Start
Lat: 49° 21.97 N
Lon: 124° 05.00 WBottom
Lat: 49° 21.95 N
Lon: 124° 05.03 WEnd
Lat: 49° 21.94 N
Lon: 124° 05.06 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: 22 Event #: 162 Ship: Tully UTC Date (dd mmm yyyy): 10 SEP 2018

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	HAB	UVic		
1		425	Bot-5	✓ 347	x		x										
2		426	250	✓ 250	x		x								x		
3		427	200	✓ 200	x		x x										
4		428	150	✓ 150	x		x								x		
5		429	100	✓ 100	x x		x										
6		430	75	✓ 75	x		x										
7		431	50	✓ 50	x		x								x		
8		432	40	✓ 40	x		x										
9		433	30	✓ 30	x		x										
10		434	20	✓ 20	x		x		x x						x		
11		435	10	✓ 10	x		x		x						x		Fluo:
12		436	5	✓ 5	x		x								x		
13		437	0	✓ 2	x		x		x	xx		xxx	x	x			
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Watchkeeper(s): MR

Bottom Depth: 348 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0619	2319
Bottom	0626	
End	0644	

Positional Information

Lat: 49° 40 21 N

Lon: 124° 16 46 W

Start

Bottom

End

Lat: 49° 40.19 N

Lon: 124° 16.47 W

Lat: 49° 40 18 N

Lon: 124° 16 49 W

Extra comments:

Water.Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: 24 Event #: 164 Ship: Tully UTC Date (dd mmm yyyy): 10 9 18

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		438	20	✓ 20			x		x								
2		439	10	✓ 10			x		x								
3		440	0	✓ 2.3			x		xx	xx							Fluo:
4																	
5																	
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18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): H +Bottom Depth: 425 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	08:27	01:27
Bottom	08:34	01:34
End	08:46	

Positional Information
Start
Lat: 49 ° 30.41 N
Lon: 124 ° 06.06 WBottom
Lat: 49 ° 30.42 N
Lon: 124 ° 05.87 WEnd
Lat: 49 ° 30.43 N
Lon: 124 ° 05.67 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: 28 Event #: 166 Ship: Tully UTC Date (dd mmm yyyy): 10 9 18

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		441	20	✓ 20			x		x								
2		442	10	✓			x		x								
3		443	0	✓			x		xx	x x							Fluo:
4																	
5																	
6																	
7																	
8																	
9																	
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18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 132 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1043	0343
Bottom	1046	
End	1050	

Positional Information
Start
Lat: 49 ° 24 20 N
Lon: 123 ° 45 36 W

Bottom
Lat: 49 ° 24 20 N
Lon: 123 ° 45 35 W

End
Lat: 49 ° 24 19 N
Lon: 123 ° 45 34 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: GE01 Event #: 168 Ship: Tully UTC Date (dd mmm yyyy): 10 9 10

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	HAB	UVic		
1		444	b-10	✓	394	x		x									
2		445	250	✓		x		x							x		
3		446	200	✓		x		x									
4		447	150	✓		x		x							x		
5		448	100	✓		x		x									
6		449	75	✓		x		xx									
7		450	50	✓		x		x							x		
8		451	40	✓		xx		x									
9		452	30	✓		x		x		x							
10		453	20	✓		x		x		x					x		
11		454	10	✓		x		x		x					x		
12		455	5	✓		x	x	x		xx					x		
13		456	0	✓		x		x		x	xx	xxx	x	x			Fluo: 2.063
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): Hm +Bottom Depth: 399 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1222	0522
Bottom	1229	
End	1246	

Positional Information
Start
Lat: 49 ° 15 02 N
Lon: 123 ° 45 00 WBottom
Lat: 49 ° 15 00 N
Lon: 123 ° 45 01 WEnd
Lat: 49 ° 15 00 N
Lon: 123 ° 45 01 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: 38 Event #: 172 Ship: Tully UTC Date (dd mmm yyyy): 10 9 18

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		457	20	☒			x		x								
2		458	10	☒			x		x x								
3		459	0	☒			x		x	x x							Fluo:
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
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17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

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

Time	UTC	Local
Start	1556	0856
Bottom	1601	
End	1609	

Positional Information

Lat:	49 ° 11 99	N
Lon:	125 ° 26 47	W

▼

Lat:	45 ° 11 97	N
Lon:	125 ° 26 45	W

▼

Lat:	45 ° 11 99	N
Lon:	125 ° 26 43	W

Extra comments:
 NISKIN 21 closed just to test

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: 42 Event #: 176 Ship: Tully UTC Date (dd mmm.yyyy): 10 9 18

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	HAB	DA	UVic		
					pkw		VD		VD/TV	MR		ML	MR	MR			
1		460	b-10	✓ 309	x		x										
2		461	200	✓ 200	x		x										
3		462	100	✓ 99	xx		x										
4		463	75	✓ 74	x		x										
5		464	50	✓ 49	x		x										
6		465	40	✓ 40	x		x										
7		466	30	✓ 29	x		x		x								
8		467	20	✓ 20	x		x		x								
9		468	10	✓ 10	x		x		xx								
10		469	5	✓ 5	x	x	xx		x								
11		470	0	✓ 2	x		x		x	xx		xxx	x	x			Fluo: 1.8
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth:	314	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	1826	1126
Bottom	1832	
End	1849	

Positional Information		
Lat:	49° 01.77	N
Lon:	123° 26.20	W

Lat:	49° 01.77	N
Lon:	123° 26.16	W

Lat:	49° 01.77	N
Lon:	123° 26.09	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-034 Station: 46 Event #: 178 Ship: Tully UTC Date (dd mmm yyyy): 10 Sep 2018

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		471	20	✓ 20			x		x x								
2		472	10	✓ 10			x		x								
3		473	0	✓ 2.8			x		x	xx							Fluo: 0.6
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
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15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 169 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2035	1335
Bottom	2038	
End	2043	

Positional Information

Lat:	48° 51.49	N
Lon:	123° 10.75	W

▼

Lat:	48° 51.49	N
Lon:	123° 10.77	W

▼

Lat:	48° 51.48	N
Lon:	123° 10.77	W

Extra comments: