

Water Properties Group

Sampling Log

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

Cruise ID: 2017-36 Station: CS02 Event #: 47 Ship: Tully UTC Date (dd|mmm|yyyy): 27|Jul|2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	DO	Nuts Frozen	Nuts Fresh	HPLC	DA	Phyto	Chl	Sal	eDNA	DIC				
									CHL MAX									
1		304	Btm-5	✓ 1156	x	x	x					x	x	x				34.42
2		305	Btm-15	✓ 1146	x	x	x					x		x				34.42
3		306	Btm-25	✓ 1136	xx	x	x											
4		307	Btm-35	✓ 1126	x	x	xx											
5		308	1000	✓ 1000	x	x	x											
6		309	750	✓ 750	x	x	x											
7		310	500	✓ 500	x	x	x											
8		311	400	✓ 400	x	x	x											
9		312	300	✓ 300	x	x												
10		313	250	✓ 250	x	x												
11		314	200	✓ 200	x	x												
12		315	175	✓ 175	x	x												
13		316	150	✓ 150	xx	x												
14		317	125	✓ 125	x	x												
15		318	100	✓ 100	x	x												
16		319	75	✓ 74	x	x						x						
17		320	50	✓ 50	x	x												
18		321	40	✓ 40	x	x												
19		322	30	✓ 30	x	x												
20		323	20	✓ 20	x	xx					xx							
21		324	10	✓ 10	x	x					xx							
22		325	5	✓ 5	x	x		xx			xx							
23																		
24																		

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

Bottom Depth: 1156 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	0740	
Bottom	0800	
End	0840	

Positional Information
Start
Lat: 49 ° 53.010 N
Lon: 132 ° 07.100 W

Bottom
Lat: 49 ° 52.880 N
Lon: 132 ° 07.140 W

End
Lat: 49 ° 53.000 N
Lon: 132 ° 07.290 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-36 Station: CS03 Event #: 49 Ship: Tully UTC Date (dd|mmm|yyyy): 26 July 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	DO	Nuts Frozen	Nuts Fresh	HPLC	DA	Phyto	Chl	Sal	eDNA	DIC			
1		326	Btm-5	2117	x							x	x				
2		327	Btm-15	2103	x												
3		328	Btm-25	2093	x												
4		329	Btm-35	2083	xx												
5		330	1500	1500	x							x	x				7~1250m
6		331	1000	1000	x							x	x				34.37 ~34.42
7		332	750	750	x												
8		333	500	500	x												
9		334	400	400	x							x					
10		335	300	300	x												
11		336	250	250	x												
12		337	200	200	x												
13		338	175	175	x												
14		339	150	150	x												
15		340	125	125	xx												
16		341	100	100	x												
17		342	75	75	x												
18		343	50	50	x												
19		344	40	40	x												
20		345	30	30	x												
21		346	20	20	x						xx						
22		347	10	10	x						xx						
23		348	5	5	x				xx.		xx						
24		349															

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

Watchkeeper(s): SM

Bottom Depth: 2122 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0955	
Bottom	1032	
End	1125	

Positional Information

Start Lat: 49 ° 53.670 N

Start Lon: 132 ° 5.030 W

Bottom Lat: 49 ° 53.750 N

Bottom Lon: 132 ° 5.010 W

End Lat: 49 ° 53.980 N

End Lon: 132 ° 5.180 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-36 Station: DS05 Event #: 52 Ship: Tully UTC Date (dd/mmm/yyyy): 27 July 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	DO	Nuts Frozen	Nuts Fresh	HPLC	DA	Phyto	Chl	Sal	eDNA	DIC	
1		349	Btm-5	✓ 1019	x							x	x		
2		350	Btm-15	✓ 1006	xx										
3		351	Btm-25	✓ 994	x										
4		352	Btm-35	✓ 984	x										
5		353	1000	NOT	x	TAKEN TOO shallow									
6		354	750	✓ 750	x										
7		355	500	✓ 500	x										
8		356	400	✓ 400	x										
9		357	300	✓ 300	x										
10		358	250	✓ 250	x										
11		359	200	✓ 200	x										
12		360	175	✓ 175	x										
13		361	150	✓ 150	xx										
14		362	125	✓ 125	x										
15		363	100	✓ 100	x							x			
16		364	75	✓ 75	x										
17		365	50	✓ 50	x										
18		366	40	✓ 40	x										
19		367	30	✓ 30	x										
20		368	20	✓ 20	x						xx				
21		369	10	✓ 10	x						xx				
22		370	5	✓ 5	x			xx.			xx				
23															
24															

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): SL

Bottom Depth: 982 m

Transmisso Cleaned: Y N

Time	UTC	Local
Start	<u>0356</u>	
Bottom	<u>0416</u>	
End	<u>0451</u>	

Positional Information

Start

Lat: 50 ° 42.910 N
Lon: 130 ° 51.900 W

Bottom

Lat: 50 ° 42.950 N
Lon: 130 ° 51.851 W

End

Lat: 50 ° 42.940 N
Lon: 130 ° 51.870 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-36 Station: DS04 Event #: 54 Ship: Tully UTC Date (dd|mmm|yyyy): 27 | July | 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	DO	Nuts Frozen	Nuts Fresh	HPLC	DA	Phyto	Chl	Sal	eDNA	DIC				
1		371	Btm-5	✓ 570	x	x	x					x	x					
2		372	Btm-15	✓ 560	x	x	x											
3		373	Btm-25	✓ 550	x	x	xx											
4		374	Btm-35	✓ 541	x	x	x											
5		375	500	✓ 500	x	x	x											
6		376	400	✓ 400	x	x	x											
7		377	300	✓ 300	xx	x												
8		378	250	✓ 250	x	x												
9		379	200	✓ 200	x	x												
10		380	175	✓ 175	x	x												
11		381	150	✓ 150	x	x												
12		382	125	✓ 125	x	x												
13		383	100	✓ 100	x	xx												
14		384	75	✓ 75	x	x												
15		385	50	✓ 50	x	x												
16		386	40	✓ 40	xx	x						x						
17		387	30	✓ 30	x	x												
18		388	20	✓ 20	x	xx					xx							
19		389	10	✓ 10	x	x					xx							
20		390	5	✓ 5	x	x		xx			xx							
21																		
22																		
23																		
24																		

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

Bottom Depth: 575 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0555	
Bottom	0608	
End	0635	

Positional Information
Start
Lat: 50 ° 44.520 N
Lon: 130 ° 53.480 W

Bottom
Lat: 50 ° 44.504 N
Lon: 130 ° 53.478 W

End
Lat: 50 ° 44.500 N
Lon: 130 ° 53.490 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-36 Station: DS03 Event #: 56 Ship: Tully UTC Date (dd|mmm|yyyy): 27 July 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed Pressure	DO	Nuts Frozen	Nuts Fresh	HPLC	DA	Phyto	Chl	Sal	eDNA	DIC		
1		391	Btm-5	✓ 1141	x							x	x	x	Salinity ↓ 34.413 34.413 34.413 34.402 34.355 34.235 34.065	
2		392	Btm-15	✓ 1130	xx							xx		x		
3		393	Btm-25	✓ 1120	x							x		x		
4		394	Btm-35	✓ 1109	x							x		xx		
5		395	1000	✓ 1002	x							x		x		
6		396	750	✓ 757	x							x		x		
7		397	500	✓ 499	x							x		x		
8		398	400	✓ 401	x										33.969 33.924 33.908 33.889 33.852 33.792 33.510	
9		399	300	✓ 300	x											
10		400	250	✓ 250	x											
11		401	200	✓ 201	x											
12		402	175	✓ 175	x											
13		403	150	✓ 150	xx											
14		404	125	✓ 125	x											
15		405	100	✓ 100	x										33.093 32.624 32.232 32.109 31.909 31.666 31.597	
16		406	75	✓ 75	x											
17		407	50	✓ 50	x											
18		408	40	✓ 40	x											
19		409	30	✓ 30	x											
20		410	20	✓ 20	x						xx					
21		411	10	✓ 10	x						xx					
22		412	5	✓ 5	x			xx			xx				30.993	
23																
24																

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin other?
Watchkeeper(s): 82

Bottom Depth: 1111 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0722	0022
Bottom	0741	
End	0819	

Positional Information
Start Lat: 50° 45.990 N
Lon: 130° 55.110 W

Bottom Lat: 50° 45.930 N
Lon: 130° 55.080 W

End Lat: 50° 45.930 N
Lon: 130° 54.950 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-36 Station: DS01 Event #: 60 Ship: Tully UTC Date (dd|mmm|yyyy): 27 JUL 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	DO	Nuts Frozen	Nuts Fresh	HPLC	DA	Phyto	Chl	Sal	eDNA	DIC	
															Match DIC sample bottles to salinities from DS03
1		413	Btm-5	✓ 2594	x	x	x					x		x	
2		414	Btm-15	✓ 2585	x	x	x								
3		415	Btm-25	✓ 2575	x	x	x								
4		416	2500	✓ 2500	x	x	x				xx			x	34.628
5		417	2000	✓ 2000	x	xx	x				x			x	34.580
6		418	1500	✓ 1500	x	x	x				x			xx	34.496
7		419	1000	✓ 1000	x	x	x				x			x	34.366
8		420	750	✓ 750	x	x	xx				x			x	34.232
9		421	500	✓ 500	x	x	x				x			x	34.069
10		422	400	✓ 400	x	x									
11		423	300	✓ 300	x	x									
12		424	250	✓ 250	xx	x									
13		425	200	✓ 200	x	x									
14		426	175	✓ 175	x	x									
15		427	150	✓ 150	x	x									
16		428	125	✓ 125	x	x									
17		429	100	✓ 100	x	x									
18		430	75	✓ 75	x	x									
19		431	50	✓ 50	x	x									
20		432	40	✓ 40	x	xx									
21		433	30	✓ 30	x	x									
22		434	20	✓ 20	xx	x					xx				
23		435	10	✓ 10	x	x					xx				
24		436	5	✓ 5	x	x		xx			xx				

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

Watchkeeper(s): CSG

Bottom Depth: 2555 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1159	
Bottom	1242	
End	1347	

Positional Information

Lat: 50 ° 53.130 N

Lon: 131 ° 01.840 W

Lat: 50 ° 53.090 N

Lon: 131 ° 02.090 W

Lat: 50 ° 53.060 N

Lon: 131 ° 02.600 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-36 Station: DS13 Event #: 64 Ship: Tully UTC Date (dd|mmm|yyyy): 28 July 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	DO	Nuts Frozen	Nuts Fresh	HPLC	DA	Phyto	Chl	Sal	eDNA		
1		437	Btm-5	✓ 2595	x							xx			
2		438	Btm-15	✓ 2586	x							x			
3		439	Btm-25	✓ 2576	xx							x			
4		440	2500	✓ 2500	x							x			
5		441	2000	✓ 2000	x							x			
6		442	1500	✓ 1500	x							x			
7		443	1000	✓ 1000	x							x			
8		444	750	✓ 750	x							x			
9		445	500	✓ 500	x							x			
10		446	400	✓ 400	x							x			
11		447	300	✓ 300	x							xx			
12		448	250	✓ 250	x							x			
13		449	200	✓ 200	x							x			
14		450	175	✓ 175	x							x			
15		451	150	✓ 150	x							x			
16		452	125	✓ 125	x							x			
17		453	100	✓ 100	xx							x			
18		454	75	✓ 75	x							x			
19		455	50	✓ 50	x							x			
20		456	40	✓ 40	x							x			
21		457	30	✓ 30	x							x			
22		458	20	✓ 20	x						xx	x			
23		459	10	✓ 10	x						xx	x			
24		460	5	✓ 5	x			xx			xx	x			

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

Bottom Depth: 2555 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0718	0018
Bottom	0800	
End	0859	

Positional Information
Lat: 50 ° 35.990 N
Lon: 131 ° 5.940 W
▼
Lat: 50 ° 35.837 N
Lon: 131 ° 6.220 W
▼
Lat: 50 ° 35.782 N
Lon: 0 ° W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-36 Station: DS13 Event #: 65 Ship: Tully UTC Date (dd|mmm|yyyy): 28 | Jul | 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓ Pressure	DO	Nuts Frozen	Nuts Fresh	HPLC	DA	Phyto	Chl	Sal	eDNA				
1		437	Btm-5	✓ 2604	x							xx					
2		438	Btm-15	✓ 2594	x							x					
3		439	Btm-25	✓ 2584	xx							x					
4		440	2500	✓ 2500	x							x					
5		441	2000	✓ 2000	x							x					
6		442	1500	✓ 1500	x							x					
7		443	1000	✓ 1000	x							x					
8		444	750	✓ 750	x							x					
9		445	500	✓ 500	x							x					
10		446	400	✓ 400	x							x					
11		447	300	✓ 300	x							xx					
12		448	250	✓ 250	x							x					
13		449	200	✓ 200	x							x					
14		450	175	✓ 175	x							x					
15		451	150	✓ 150	x							x					
16		452	125	✓ 125	x							x					
17		453	100	✓ 100	xx							x					
18		454	75	✓ 75	x							x					
19		455	50	✓ 50	x							x					
20		456	40	✓ 40	x							x					
21		457	30	✓ 30	x							x					
22		458	20	✓ 20	x						xx	x					
23		459	10	✓ 10	x						xx	x					
24		460	5	✓ 6	x			xx			xx	x					

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

Bottom Depth: 2558 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0920	
Bottom	1010	
End	1111	

Positional Information
Lat: 50 ° 36.060 N
Lon: 131 ° 5.640 W

Lat: 50 ° 35.820 N
Lon: 131 ° 5.850 W

Lat: 50 ° 35.350 N
Lon: 131 ° 6.190 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-36 Station: DS08 Event #: 71 Ship: Tully UTC Date (dd|mmm|yyyy): 29 July 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	DO	Nuts Frozen	Nuts Fresh	HPLC	DA	Phyto	Chl	Sal	eDNA					
1		461	Btm-5	✓ 2437	x							x						
2		462	Btm-15	✓ 2427	x													
3		463	Btm-25	✓ 2418	x													
4		464	2500	✓	x													
5		465	2000	✓ 2000	xx													
6		466	1500	✓ 1500	x													
7		467	1000	✓ 1000	x							x						
8		468	750	✓ 750	x													
9		469	500	✓ 500	x													
10		470	400	✓ 400	x													
11		471	300	✓ 300	x													
12		472	250	✓ 250	x													
13		473	200	✓ 200	x													
14		474	175	✓ 175	x													
15		475	150	✓ 150	x													
16		476	125	✓ 125	x													
17		477	100	✓ 100	x													
18		478	75	✓ 75	x													
19		479	50	✓ 50	x													
20		480	40	✓ 40	xx													
21		481	30	✓ 30	x													
22		482	20	✓ 20	x						xx							
23		483	10	✓ 10	x						xx							
24		484	5	✓ 5	x			xx			xx							

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

Watchkeeper(s): SW

Bottom Depth: 2414 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0423	2123
Bottom	0508	
End	0605	

Positional Information

Start Lat: 50° 49.660' N
Lon: 130° 45.920' W

Bottom Lat: 50° 49.660' N
Lon: 130° 45.720' W

End Lat: 50° 49.660' N
Lon: 130° 45.470' W

Extra comments:

Water Properties Group

Sampling Log

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

UC18 4m

Cruise ID: 2017-36 Station: DS07 Event #: 73 Ship: Tully UTC Date (dd|mmm|yyyy): 29 JUL 2017

Rosette Operation

Samples Taken / Sampler's Initials

Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	DO	Nuts Frozen	Nuts Fresh	HPLC	DA	Phyto	Chl	Sal	eDNA	Comments
									CHL MAX					
1		485	Btm-5	✓ 2127	x							x	x	
2		486	Btm-15	✓ 2117	x									
3		487	Btm-25	✓ 2105	x									
4		488	2000	✓ 2000	x									
5		489	1500	✓ 1500	x									
6		490	1000	✓ 1000	x									
7		491	750	✓ 750	x									
8		492	500	✓ 502	x									
9		493	400	✓ 400	xx									
10		494	300	✓ 300	x									
11		495	250	✓ 250	x									
12		496	200	✓ 200	x							x		
13		497	175	✓ 175	x									
14		498	150	✓ 150	x									
15		499	125	✓ 125	x									
16		500	100	✓ 100	xx									
17		501	75	✓ 75	x									
18		502	50	✓ 50	x									
19		503	40	✓ 40	x									
20		504	30	✓ 30	x									
21		505	20	✓ 20	x						xx			
22		506	10	✓ 10	x						xx			
23		507	5	✓ 5	x			xx			xx			
24														

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

Watchkeeper(s): CSG

Bottom Depth: 2098 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0945	
Bottom	1020	
End	1112	

Positional Information

Start Lat: 50 ° 40.650 N

Start Lon: 130 ° 49.660 W

Bottom Lat: 50 ° 40.470 N

Bottom Lon: 130 ° 49.460 W

End Lat: 50 ° 40.280 N

End Lon: 130 ° 49.500 W

Extra comments:

Fluorescent peak close to 30m, but less than 2 a 30m