

Cruise ID: 2014-18 Station: ^{P15} Light @ 0750 Event #: 41 Ship: Tully UTC Date (dd|mmm|yyyy): 18 | JUN | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	HPLC	CHL	Nut	pH	SAL						
1	1	393	100	✓ 100											
2	2	394	80	✓ 80											
3	3	395	60	✓ 60											
4	4	396	50	✓ 50											
5	5	397	50	✓ 50											
6	6	398	50	✓ 50											
7	7	399	40	✓ 40											
8	11	400	20	✓ 20											
9	8	401	30	✓ 30											
10	9	402	30	✓ 30											
11	10	403	30	✓ 30											
12	12	404	10	✓ 10											
13	13	405	5	✓ 5											
14	14	406	5	✓ 5											
15	15	407	5	✓ 5											
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 3397 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	14:48	07:48
Bottom	14:51	07:51
End	15:05	08:05

Positional Information
Start
Lat: 49 ° 11 95 N
Lon: 133 ° 39 88 W

Bottom
Lat: 49 ° 11 96 N
Lon: 133 ° 39 87 W

End
Lat: 49 ° 11 94 N
Lon: 133 ° 39 91 W

Extra comments:
Light Cast 1-7, 9, 10, 11
PAR ON 8, 12, 13, 14, 15
Out of Order!

Cruise ID: 2014-18 Station: P15 Event #: 42 Ship: Tully UTC Date (dd mmm yyyy): 13 Jun 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	HPLC	CHL	Nut	pH	SAL						
1	1	408	50/Max	✓ 51	x x	x x	x								
2	2	409	5	✓ 5	x x	x x	x								
3															
4															
5															
6															
7															
8															
9															
10															
11															
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15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 3397 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	15:44	08:44
Bottom	16:25	09:25
End	17:07	10:07

Positional Information
Start
Lat: 49 ° 11 99 N
Lon: 133 ° 39 93 W

Bottom
Lat: 49 ° 12 03 N
Lon: 133 ° 39 96 W

End
Lat: 49 ° 11 99 N
Lon: 133 ° 39 76 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2014-18 Station: P16 Event #: 43 Ship: Tully UTC Date (dd|mmm|yyyy): 13 | 6 | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP	DMSP	Nut-F		Chl	HPLC		ONAr					
1	1	410	300	✓ 300	x			x x										
2	2	411	200	✓ 200	x	x	x	x										
3	3	412	175	✓ 175	x	x	x	x										
4	4	413	100	✓ 100	x	x	x	x		x								
5	5	414	75	✓ 75	x			x		x								
6	6	415	50	✓ 50	x			x		x								
7	7	416	40	✓ 39	x			x		x								
8	8	417	30	✓ 30	x			x		x x *								
9	10	418	25	✓ 25	x			x		x								
10	11	419	20	✓ 20	x x	x x	x x	x		x								
11	13	420	15	✓ 14	x			x		x								
12	14	421	10	✓ 10	x			x		x								
13	15	422	5	✓ 5	x	x	x	x		x								
14	18	423	0	✓ 2	x	x	x	x		x								
15	9	424	61/M410	✓ 30						x x	x x							
16	12	425	24/Max	✓ 20						x x	x x							
17	16	426	5	✓ 5						x x	x x							
18	17	427	5	✓ 5									x					
19																		
20										* precision CHL								
21																		
22																		
23																		
24																		

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

Bottom Depth: 3624 m
Transmisso Cleaned: 9 / N

Time	UTC	Local
Start	2156	1456
Bottom	2203	
End	2225	

Positional Information

Lat:	49° 17.05	N
Lon:	134° 39.90	W

Start

Bottom

End

Lat: 49° 17.00 N
Lon: 134° 39.83 W

Lat: 49° 16.94 N
Lon: 134° 39.80 W

Extra comments:
DMS cast; out-of-order.

Water Properties Group

Sampling Log

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

Cruise ID: 2014-18 Station: P16 Event #: 45 Ship: Tully UTC Date (dd|mmm|yyyy): 13 | JUN | 2014

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed		OXY	Sal	Nut-F	Nut-C	DIC	pH				UBC					
				✓	Pressure															
						0.18	AM	PM	PM	HP/MC	GC				AM					
1	1	428	Bot-10	✓	3685	x		x	x	x	x				x					
2		429	3500	✓	3500	x	x	x	x	xx	x									
3		430	3500	✓	3500	x	x	x	x	x	x									
4		431	3000	✓	3000	x	xx	x	x	x	x				x					
5		432	2500	✓	2500	x	x	x	x	x	xxx									
6		433	2000	✓	2000	xx	xx	x	x	x	x				x					
7		434	1500	✓	1500	x	x	x	x	x	x				x					
8		435	1250	✓	1250	x	x	xx	xx	x	x				x					
9		436	1000	✓	1000	x	xx	x	x	x	x				x					
10		437	800	✓	801	x		x	x	x	x				x					
11		438	600	✓	602	x		x	x	x	x				x					
12		439	400	✓	400	x		x	x	x	x				x					
13		440	300	✓	299	xx		x		x	x				x					
14		441	250	✓	250	x		x		x	xxx									
15		442	200	✓	200	x		x		x	x				x					
16		443	175	✓	175	xx		x		x	x									
17		444	150	✓	150	x		x		x	x				x					
18		445	125	✓	125	x		x		x	x									
19		446	100	✓	99	x		x		x	x				x					
20		447	75	✓	75	xx		x		x	x									
21		448	50	✓	50	x		xx		x	x				x					
22		449	25	✓	25	x		x		x	x				x					
23		450	10	✓	10	x		x		x	x				x					
24		451	5	✓	5	x	x	x		x	x									

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

Watchkeeper(s): MR/DZ

Bottom Depth: 3624 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2308	1608
Bottom	0036	
End	0214	

Positional Information

Start

Lat: 49 ° 17.04 N

Lon: 134 ° 39.90 W

Bottom

Lat: 49 ° 17.04 N

Lon: 134 ° 40.07 W

End

Lat: 49 ° 16.94 N

Lon: 134 ° 40.20 W

Extra comments:

Deep cast

Cruise ID: 2014-18 Station: P17 Event #: 48 Ship: Tully UTC Date (dd|mmm|yyyy): 14 | JUN | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓ Pressure	HPLC	CHL	Nut	pH	SAL								
1	1	452	50/Max	✓ 50	x x	x x	x										
2	2	453	5	✓ 5	x x	x x	x										
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
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13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 3712 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	10:26	03:26
Bottom	10:59	03:59
End	11:39	04:39

Positional Information
Start
Lat: 49 ° 20 99 N
Lon: 135 ° 40 00 W

Bottom
Lat: 49 ° 21 00 N
Lon: 135 ° 40 01 W

End
Lat: 49 ° 20 98 N
Lon: 135 ° 39 02 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2014-18 Station: P18 Event #: 49 Ship: Tully UTC Date (dd|mmm|yyyy): 14 | JUN | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓ Pressure	HPLC	CHL	Nut-Fr		Bsi								
1	1	454	900	✓ 900					x								
2	2	455	900	✓ 900					x								
3	3	456	900	✓ 900					x								
4	4	457	900	✓ 900					x								
5	5	458	700	✓ 700					x								
6	6	459	700	✓ 700					x								
7	7	460	700	✓ 700					x								
8	8	461	700	✓ 700					x								
9	9	462	500	✓ 500					x								
10	10	463	500	✓ 500					x								
11	11	464	300	✓ 300					x								
12	12	465	300	✓ 300					x								
13	13	466	100	✓ 100					x								
14	14	467	100	✓ 100					x								
15	15	468	60	✓ 60					x								
16	16	469	60	✓ 60					x								
17	18	470	40	✓ 40					x								
18	19	471	40	✓ 40					x								
19	20	472	20	✓ 20					x								
20	21	473	20	✓ 20					x								
21	22	474	5	✓ 5					x								
22	23	475	5	✓ 5					x								
23	17	476	50/Max	✓ 50	x x	x x	x										
24	24	477	5	✓ 5	x x	x x	x										

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

Bottom Depth: 3816 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	16:40	09:40
Bottom	17:21	10:21
End	18:14	11:14

Positional Information
Start
Lat: 49 ° 25 99 N
Lon: 136 ° 39 99 W

Bottom
Lat: 49 ° 25 97 N
Lon: 136 ° 39 94 W

End
Lat: 49 ° 26 02 N
Lon: 136 ° 39 95 W

Extra comments:
OUT-OF-ORDER!!!
Bottles: 1 → 16, 23, 17, 18
19, 20, 21, 22, 24

Cruise ID: 2014-18 Station: P19 Event #: 52 Ship: Tully UTC Date (dd|mmm|yyyy): 14 | 6 | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	HPLC	CHL	Nut	pH	SAL						
1		478	50/Max	✓ 25	x x	x x	x								
2		479	5	✓ 5	x x	x x	x								
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): DY

Bottom Depth: 3910 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2322	1622
Bottom	2356	
End	0029	

Positional Information

Lat:	49 ° 29.34	N
Lon:	137 ° 40.03	W

Bottom

Lat:	49 ° 29.98	N
Lon:	137 ° 40.11	W

End

Lat:	49 ° 29.97	N
Lon:	137 ° 40.26	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2014-18 Station: P20 Event #: 53 Ship: Tully UTC Date (dd|mmm|yyyy): 15 | 6 | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH					UBC			
1	1	480	Bot-10	✓ 4023	x		x	x	x	x					x			
2	2	481	3500	✓ 3500	x	x	x	x	xx	x								
3	3	482	3500	✓ 3500	xx	x	x	x	x	xxx								
4	4	483	3000	✓ 3000	x	xx	x	x	x	x					x			
5	5	484	2500	✓ 2500	x	x	x	x	x	x								
6	6	485	2000	✓ 2000	x	xx	x	x	x	x					x			
7	7	486	1500	✓ 1500	x	x	x	x	x	x					x			
8	8	487	1250	✓ 1250	xx	x	x	x	x	x					x			
9	9	488	1000	✓ 1000	x	xx	x	x	x	x					x			
10	10	489	800	✓ 800	x	x	x	x	x	x					x			
11	11	490	600	✓ 600	x	x	xx	xx	x	x					x			
12	12	491	400	✓ 400	x	x	x	x	x	x					x			
13	13	492	300	✓ 300	xx	x	x		x	x					x			
14	14	493	250	✓ 250	x	x	x		x	x								
15	15	494	200	✓ 200	x	x	x		x	x					x			
16	16	495	175	✓ 175	x	x	x		x	x								
17	17	496	150	✓ 150	x	x	xx		x	x					x			
18	18	497	125	✓ 125	x	x	x		x	xxx								
19	19	498	100	✓ 100	x	x	x		x	x					x			
20	20	499	75	✓ 75	xx	x	x		x	x								
21	21	500	50	✓ 50	x	x	x		x	x					x			
22	22	501	25	✓ 25	x	x	x		x	x					x			
23	23	502	10	✓ 10	x	x	x		x	x					x			
24	24	503	5	✓ 5	x	x	x		x	x								

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

Bottom Depth: 3946 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0518	2218
Bottom	10641	
End	0814	

Positional Information

Lat:	49° 34.04	N
Lon:	138° 39.98	W

Start

Bottom

End

Lat: 49° 34.07 N
 Lon: 138° 40.00 W

Lat: 49° 34.00 N
 Lon: 138° 39.96 W

Extra comments:
 Deep cast

Water Properties Group

Sampling Log

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

Cruise ID: 2014-18 Station: P20 Event #: 56 Ship: Tully UTC Date (dd|mmm|yyyy): 15 Jun 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials					Comments							
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-F		Chl	HPLC		ONAr				
				✓	✓	✓	✓	✓		514 MB	514 MB		✓				
1	1	504	300	✓ 300	x			x		NS	NS						Leaking Badly
2	2	505	200	✓ 200	x	x	x	x									
3	3	506	175	✓ 175	x	x	x	x									
4	4	507	100	✓ 100	x	x	x	x		x							
5	5	508	75	✓ 75	x			x x		x							
6	6	509	50	✓ 50	x			x		x							
7	8	510	40	✓ 40	x			x		x							
8	9	511	30	✓ 30	x			x		x							
9	10	512	25	✓ 25	x			x		x							
10	11	513	20	✓ 20	x x	x x	x x	x		x							
11	13	514	15	✓ 15	x			x		x x *							
12	14	515	10	✓ 10	x			x		x							
13	15	516	5	✓ 5	x	x	x	x		x							
14	18	517	0	✓ 0	x	x	x	x		x							
15	7	518	50/M*10	✓ 50						x x	x x						
16	12	519	20/Max	✓ 20						x x	x x						
17	16	520	5	✓ 5						x x	x x						
18	17	521	5	✓ 5									x				
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 3946 m
 Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1402	702
Bottom	1407	
End	1426	

Positional Information:
 Lat: 49 ° 34 01 N
 Lon: 138 ° 40 00 W

Lat: 49 ° 34 02 N
 Lon: 138 ° 39 99 W

Lat: 49 ° 34 04 N
 Lon: 138 ° 40 03 W

Extra comments:
 DMS cast; out-of-order. PAR on bottles
 1-6, 15, 7, 8, 9, 10, 16, 11, 12, 13, 17, 18, 14

Cruise ID: 2014-18 Station: P20 Event #: 57 Ship: Tully UTC Date (dd|mmm|yyyy): 15 | Jun | 2014

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓	Pressure	Oxy	Nut-F	Nut-C	Sal	DIC	pH	UBC						
1	1	522	100	✓	100													
2	2	523	80	✓	80													
3	3	524	60	✓	61													
4	4	525	50	✓	50													
5	5	526	50	✓	50													
6	6	527	50	✓	50													
7	7	528	40	✓	40													
8	8	529	30	✓	30													
9	9	530	20	✓	20													
10	10	531	20	✓	20													
11	11	532	20	✓	20													
12	12	533	10	✓	10													
13	13	534	5	✓	5													
14	14	535	5	✓	5													
15	15	536	5	✓	5													
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 3945 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	15:11	08:11
Bottom	15:15	
End	15:27	

Positional Information

Start

Lat: 49 ° 34 00 N

Lon: 138 ° 39 98 W

Bottom

Lat: 49 ° 34 01 N

Lon: 138 ° 39 95 W

End

Lat: 49 ° 33 98 N

Lon: 138 ° 39 99 W

Extra comments:

Light cast - PAR on

OUT-OF-ORDER

Cruise ID: 2014-18 Station: P21 Event #: 60 Ship: Tully UTC Date (dd|mmm|yyyy): 15 | 6 | 2014

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓	Pressure	HPLC	CHL	Nut	pH	SAL								
1		537	250	✓	251													Water for Ammonia
2		538	50/Max	✓	25	x x	x x	x										chl > 2 ug/l
3		539	5	✓	5	x x	x x	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): DY

Bottom Depth: 3939 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2003	1303
Bottom	2039	
End	2118	

Positional Information

Start

Lat: 49 ° 38.01 N

Lon: 139 ° 39.93 W

Bottom

Lat: 49 ° 38.06 N

Lon: 139 ° 39.95 W

End

Lat: 49 ° 38.04 N

Lon: 139 ° 39.93 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2014-18 Station: P22 Event #: 61 Ship: Tully UTC Date (dd|mmm|yyyy): 18 | 6 | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	HPLC	CHL	Nut	pH	SAL						
1		540	50 Max	✓ 25	x x	x x	x								
2		541	5		x x	x x	x								
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): DY

Bottom Depth: 3925 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0150	1850
Bottom	0231	
End	0311	

Positional Information

Lat:	49 ° 41.93	N
Lon:	140 ° 40.05	W

Start

Lat:	49 ° 41.87	N
Lon:	140 ° 40.17	W

Bottom

Lat:	49 ° 41.83	N
Lon:	140 ° 40.32	W

End

Extra comments:

Cruise ID: 2014-18 Station: P23 Event #: 64 Ship: Tully UTC Date (dd|mmm|yyyy): 16 | Jan | 2014

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials													Comments
			Target Pressure	Confirmed ✓	Pressure	HPLC	CHL	Nut	pH	SAL									
1	1	542	30 50/Max	✓	30	x x	x x	x											
2	2	543	5	✓	5	x x	x x	x											
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): MB

Bottom Depth: 4030 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	07:20	00:20
Bottom	07:56	
End	08:31	

Positional Information

Lat:	49 ° 46 03	N
Lon:	141 ° 39 87	W

Bottom

Lat:	49 ° 46 05	N
Lon:	141 ° 39 84	W

End

Lat:	49 ° 46 03	N
Lon:	141 ° 39 76	W

Extra comments:

Cruise ID: 2014-18 Station: P24 Event #: 65 Ship: Tully UTC Date (dd|mmm|yyyy): 16 | Jun | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓ Pressure	HPLC	CHL	Nut	pH	SAL								
1	1	544	180	✓ 180				6	x								
2	2	545	160	✓ 160				6	x								
3	3	546	140	✓ 140				6	x								
4	4	547	120	✓ 120				6	x								
5	5	548	50/Max	✓ 50	x x	x x	x										
6	6	549	5	✓ 5	x x	x x	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): MB

Bottom Depth: 3968 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1408	0708
Bottom	1444	
End	1522	

Positional Information

Start

Lat: 49 ° 50 24 N

Lon: 142 ° 39 93 W

Bottom

Lat: 49 ° 50 17 N

Lon: 142 ° 39 94 W

End

Lat: 49 ° 50 16 N

Lon: 142 ° 39 87 W

Extra comments:

pH experiment

Water Properties Group

Sampling Log

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

Cruise ID: 2014-18 Station: P25 Event #: 68 Ship: Tully UTC Date (dd|mmm|yyyy): 16|6|2011

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	HPLC	CHL	Nut	pH	SAL	DIC					
1		550	50/Max	☒ 200	x x	x x	x								Oops. Fuck.
2		551	5	☒ 5	x x	x x	x								
3		552	2000	☒ 2000					x						
4		553	2000	☒					x						
5		554	2000	☒				x x x	x	x x x					
6		555	2000	☒				x x x	x	x x x					
7		556	2000	☒				x x x	x	x x x					
8		557	2000	☒				x x x	x	x x x					
9		558	2000	☒				x x x	x	x x x					
10		559	2000	☒					x						
11		560	2000	☒					x						
12		561	2000	☒					x						
13		562	2000	☒					x						
14		563	2000	☒					x						
15		564	2000	☒					x						
16		565	2000	☒					x						
17		566	2000	☒					x						
18		567	2000	☒					x						
19		568	2000	☒					x						
20		569	2000	☒					x						
21		570	2000	☒					x						
22		571	2000	☒					x						
23		572	2000	☒					x						
24		573	2000	☒					x						

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): DY

Bottom Depth: 4124 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2122	1422
Bottom	2153	
End	2231	

Positional Information

Start

Lat: 50 ° 0.07 N

Lon: 143 ° 36.23 W

Bottom

Lat: 50 ° 0.08 N

Lon: 143 ° 36.17 W

End

Lat: 50 ° 0.07 N

Lon: 143 ° 36.11 W

Extra comments:

OUT-OF-ORDER !!

3 - 24; 1 - 2

Water Properties Group

Sampling Log

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

Cruise ID: 2014-18 Station: P35 Event #: 69 Ship: Tully UTC Date (dd|mmm|yyyy): 17 | 6 | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	HPLC	CHL	Nut	pH	SAL						
1		574	50/Max	✓ 40	x x	x x	x								
2		575	5	✓ 5	x x	x x	x								
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): DY

Bottom Depth: 04128 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0327	2027
Bottom	0405	
End	0447	

Positional Information

Start

Lat: 50 ° 00.00 N

Lon: 144 ° 18.15 W

Bottom

Lat: 49 ° 59.82 N

Lon: 144 ° 18.10 W

End

Lat: 49 ° 59.70 N

Lon: 144 ° 18.25 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2014-18 Station: P26 Event #: 72 Ship: Tully UTC Date (dd|mmm|yyyy): 17 | Jun | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	Alk	pH		Nut	UBC			
				✓									250				
1	1	600	Bot-10	✓	4317	x		xx	x	x	x			x			
2	2	601	4000	✓	4001	xx	xx	xx	x	x	x		x	x			
3	3	602	3500	✓	3500	x	x	xx	x	xx	x		x				
4	4	603	3000	✓	3000	x	x	xx	x	x	x		x	x			
5	5	604	2500	✓	2500	x	x	xx	x	x	xxx		x				
6	6	605	2000	✓	2000	x	xx	xx	x	x	x		x	x			
7	7	606	1500	✓	1500	x	x	xx	x	x	x		x	x			
8	8	607	1250	✓	1250	xx	x	xx	x	x	x		x	x			
9	9	608	1000	✓	1001	x	x	xx	x	x	x		x	x			
10	10	609	800	✓	800	x		xxx	xx	x	x			x			
11	11	610	600	✓	600	x		xx	x	x	x			x			
12	12	611	400	✓	400	x		xx	x	x	x			x			
13	13	612	300	✓	300	x		xx		x	x			x			
14	14	613	250	✓	250	xx		xx		x	x						
15	15	614	200	✓	200	x		xx		x	x			x			
16	16	615	175	✓	175	x		xxx		x	x						
17	17	616	150	✓	150	x		xx		x	x			x			
18	18	617	125	✓	125	xx		xx		x	x						
19	19	618	100	✓	100	x		xx		x	x			x			
20	20	619	75	✓	75	x		xx		x	x	xxx					
21	21	620	50	✓	50	x		xx		x	x			x			
22	22	621	25	✓	25	x		xx		x	x			x			
23	23	622	10	✓	10	x		xx		x	x			x			
24	24	623	5	✓	5	x	x	xx		x	x						

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

Bottom Depth: 4227 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	12:35	05:35
Bottom	13:54	
End	15:27	

Positional Information

Lat:	50 ° 0 01	N
Lon:	144 ° 59 99	W

Start

Lat:	50 ° 0 00	N
Lon:	144 ° 59 95	W

Bottom

Lat:	49 ° 59 99	N
Lon:	144 ° 59 95	W

End

Extra comments:
Deep cast



Cruise ID: 2014-18 Station: P26 Event #: 73 Ship: Tully UTC Date (dd|mmm|yyyy): 17 JUN 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓	Pressure			Bsi									
								Not									
1		624	202					x									
2		625	200					x									
3		626	16					x									
4		627	14					x									
5		628	12					x									
6		629	10					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): in-situ pumps

Bottom Depth: _____ m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1600	
Bottom		
End		

Positional Information

Lat:	49° 59.98	N
Lon:	144° 59.94	W

Start

Lat:	°	N
Lon:	°	W

Bottom

Lat:	°	N
Lon:	°	W

End

Lat:	°	N
Lon:	°	W

Extra comments:
First UBC in-situ pumps

Water Properties Group

Sampling Log

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

Cruise ID: 2014-18 Station: P26 Event #: 74 Ship: Tully UTC Date (dd|mmm|yyyy): 17|6|2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓	Pressure	DMS	DMSP	DMSP	Nut-F		Chl	HPLC	Phyto	ONAr				
						MF	t MF	d MF	DT		MF/BI	MF	MR	MT				
1		630	300	✓	300	x			x									
2		631	200	✓	200	x	x	x	x									
3		632	175	✓	175	x	x	x	x									
4		633	100	✓	100	x	x	x	x		x							
5		634	75	✓	74	x			xx		x							Vent leaking
6		635	50	✓	50	x			x		xx*							
7		636	40	✓	40	x			x		x							
8		637	30	✓	30	x			x		x							Vent leaking
9		638	25	✓	25	x			x		x							
10		639	20	✓	20	xx	xx	xx	x		x							
11		640	15	✓	14	x			x		x							
12		641	10	✓	10	x			x		x							
13		642	5	✓	5	x	x	x	x		x							
14		643	0	✓	2	x	x	x	x		x							
15		644	50/M*10	✓	50						xx	xx						
16		645	20/Max	✓	40						xx	xx						
17		646	5	✓	5						xx	xx	xxx					
18		647	5	✓	5									x				
19																		
20											* precision CHL							
21																		
22																		
23																		
24																		

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

Bottom Depth: 4223 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2132	1432
Bottom	2138	
End	2156	

Positional Information

Lat:	50° 0.05	N
Lon:	144° 59.96	W

Start

Lat:	50° 0.04	N
Lon:	144° 59.96	W

Bottom

Lat:	49° 59.99	N
Lon:	144° 59.87	W

End

Extra comments:
DMS cast; out-of-order. PAR on

Water Properties Group

Sampling Log

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

Cruise ID: 2014-18 Station: P26 Event #: 75 Ship: Tully UTC Date (dd|mmm|yyyy): 17 | JUN | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓	Pressure			Nd									
1		648	205					x									
2		649	200					x									
3		650	30					x									
4		651	25					x									
5		652	20					x									
6		653	15	10				x									
7				0													
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): in-situ pumps

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2230	
Bottom		
End	0117	

Positional Information

Start

Lat: 50°00.00 N

Lon: 144°59.87 W

Bottom

Lat: ° N

Lon: ° W

End

Lat: 50°00.09 N

Lon: 145°00.06 W

Extra comments:

Second UBC in-situ pumps

Cruise ID: 2014-18 Station: P26 Event #: 77 Ship: Tully UTC Date (dd|mmm|yyyy): 18 June 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure													
1		654	3000	✓	3000												
2		655	3000	✓	1												
3		656	3000	✓	1												
4		657	3000	✓	1												
5		658	1500	✓	1499												
6		659	1500	✓	1												
7		660	1500	✓	1												
8		661	1500	✓	1												
9		662	10	✓	10												
10		663	10		1												
11		664	10														
12		665	10														
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 4225 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0242	1942
Bottom	0340	
End	0436	

Positional Information
Start
Lat: 50 ° 0.01 N
Lon: 144 ° 59.93 W

Bottom
Lat: 50 ° 0.04 N
Lon: 145 ° 0.04 W

End
Lat: 50 ° 0.03 N
Lon: 145 ° 0.05 W

Extra comments:
Maureen's cast

Cruise ID: 2014-18 Station: P26 Event #: 78 Ship: Tully UTC Date (dd|mmm|yyyy): 18 JUN 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure													
1	1	666	2000	✓ 2000													
2	2	667	2000	✓ 2000													
3	3	668	2000	✓ 2000													
4	4	669	2000	✓ 2000													
5	5	670	2000	✓ 2000													
6	6	671	1000	✓ 1000													
7	7	672	1000	✓ 1000													
8	8	673	1000	✓ 1000													
9	9	674	1000	✓ 1000													
10	10	675	1000	✓ 1000													
11	11	676	500	✓ 500													
12	12	677	500	✓ 500													
13	13	678	500	✓ 500													
14	14	679	500	✓ 500													
15	15	680	10	✓ 11													
16	16	681	10	✓ 11													
17	17	682	10	✓ 11													
18	18	683	10	✓ 11													
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 4225 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0721	0821
Bottom	0756	
End	0834	

Positional Information

Lat:	49 ° 59 99	N
Lon:	144 ° 59 96	W

▼

Lat:	49 ° 59 99	N
Lon:	144 ° 59 97	W

▼

Lat:	50 ° 0 04	N
Lon:	145 ° 0 04	W

Extra comments:
Andreas' cast

Water Properties Group

Sampling Log

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

Cruise ID: 2014-18 Station: PA-008 Event #: 80 Ship: Tully UTC Date (dd|mmm|yyyy): 18 | 6 | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure		ONAr	Oxy								
1		684	10	✓ 10		x	x								
2		685	5	✓ 5		x	x								
3		686	0	✓ 2		x	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): DY

Bottom Depth: 4203 m

Transmisso Cleaned: (Y) 1 N

Time	UTC	Local
Start	2103	1403
Bottom	2109	
End	2117	

Positional Information

Start

Lat: 50 ° 3.27 N

Lon: 144 ° 53.02 W

Bottom

Lat: 50 ° 3.27 N

Lon: 144 ° 53.01 W

End

Lat: 50 ° 3.28 N

Lon: 144 ° 53.00 W

Extra comments:

ONAr cast

CTD to 300 dbar

Cruise ID: 2014-18 Station: PA-007 Event #: 81 Ship: Tully UTC Date (dd|mmm|yyyy): 18|6|2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓	Pressure	ONAr	Oxy										
1		687	10	✓	10	x	x										
2		688	5	✓	5	x	x										
3		689	0	✓	2	x	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): 04

Bottom Depth: 4189 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2304	1604
Bottom	2310	
End	2318	

Positional Information

Start

Lat: 50 ° 7.61 N

Lon: 144 ° 48.83 W

Bottom

Lat: 50 ° 7.61 N

Lon: 144 ° 48.81 W

End

Lat: 50 ° 7.60 N

Lon: 144 ° 48.83 W

Extra comments:

ONAr cast

CTD to 300 dbar

Cruise ID: 2014-18 Station: P26 Event #: 83 Ship: Tully UTC Date (dd|mmm|yyyy): 17 Jun 2014

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials													Comments
			Target Pressure	Confirmed		Plastics													
				✓	Pressure														
1	1	576	Bot-10	✓	4317		x												
2	2	577	4000	✓	4000		x												
3	3	578	3500	✓	3500		x												slow leak on vent
4	4	579	3000	✓	3000		x												
5	5	580	2500	✓	2500		x												
6	6	581	2000	✓	2000		x												
7	7	582	1500	✓	1500		x												
8	8	583	1250	✓	1250		x												slow spigot leak on 8
9	9	584	1000	✓	1000		x												
10	10	585	800	✓	800		x												
11	11	586	600	✓	600		x												Bottom of spray bottle organic matter?
12	12	587	400	✓	400		x												
13	13	588	300	✓	300		x												
14	14	589	250	✓	250		x												
15	15	590	200	✓	200		x												
16	16	591	175	✓	175		x												
17	17	592	150	✓	150		x												
18	18	593	125	✓	125		x												
19	19	594	100	✓	100		x												
20	20	595	75	✓	75		x												
21	21	596	50	✓	50		x												
22	22	597	25	✓	25		x												
23	23	598	10	✓	10		x												
24	24	599	5	✓	5		x												

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

Bottom Depth: 4225 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1140	0440
Bottom	1257	
End	1439	

Positional Information

Lat:	50 ° 0 03	N
Lon:	144 ° 59 96	W

▼

Lat:	50 ° 0 01	N
Lon:	144 ° 59 96	W

▼

Lat:	49 ° 59 99	N
Lon:	144 ° 59 93	W

Extra comments:
Plastics cast