





# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P1 Event #: 10 Ship: Tully UTC Date (dd|mmm|yyyy): 11 | Feb | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	DIC	Oxy	pH	Bsi	Nd					
1	1	49	Bot-10	✓	116	X				xx	xx	xxx						
2	2	50	30	✓	29	X		xx	xx	x	x	x						
3	3	51	5	✓	5	<del>X</del>	x	xx	xx	x	x	x						No water left (no idea why)
4																		-no Nut, 1/2 of 2nd HAC from 5m Bottle
5								51										
6								Nut-Fr										
7								P1										
8								5 m										
9								2015-01										
10								Bot 3										
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23	4	-	5	✓	5													no sample fire to check spigot
24																		

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

Bottom Depth: 118 m  
 Transmisso Cleaned:  Y /  N

Time	UTC	Local
Start	19:21	11:21
Bottom	19:24	
End	19:28	

Positional Information

Start	Lat: 48 ° 34 54 N	Lon: 125 ° 30 13 W
Bottom	Lat: 48 ° 34 55 N	Lon: 125 ° 30 14 W
End	Lat: 48 ° 34 58 N	Lon: 125 ° 30 18 W

Extra comments:  
 Fire bottle 23 to test spigot/vent which may be leaky. -very slight leak

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P2 Event #: 16 Ship: Tully UTC Date (dd|mmm|yyyy): 11 | 2 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials							Comments							
			Target Pressure	Confirmed Pressure	Oxy	Nut-F	Nut-C	Sal	DIC	pH	Céline								
1	1	96	Bot-10	✓	106	x	x			x	x								
2	2	97	100	✓		x	x			x	x								
3	3	98	75	✓		x	x			x	x								
4	4	99	75	✓		x	x			x	x								
5	5	100	50	✓		x	x			x	x	x							
6	6	101	25	✓		x	x			x	x								
7	7	102	10	✓		x	x			x	x								
8	8	103	5	✓		x	x			x	x								
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: 115 m  
 Transmisso Cleaned: 0 / N

Time	UTC	Local
Start	2320	1520
Bottom	2324	
End	2334	

Positional Information

Start  
 Lat: 48° 26.01 N  
 Lon: 125° 59.97 W

Bottom  
 Lat: 48° 36.00 N  
 Lon: 125° 59.95 W

End  
 Lat: 48° 36.01 N  
 Lon: 125° 59.97 W

Extra comments:  
 Deep cast + Céline



# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P2 Event #: 15 Ship: Tully UTC Date (dd|mmm|yyyy): 11|2|2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC		Cr							
1		76	100	✓	x	x	x	xx	x										
2		77	75	✓	x			x	x										
3		78	50	✓	x			x	x										
4		79	40	✓	x			x	x										
5		80	30	✓	x			x	x										
6		81	25	✓	x			x	xx										
7		82	20	✓	xx	xx	xx	x	x										
8		83	15	✓	x			x	x										
9		84	10	✓	x			x	x										
10		85	5	✓	x	x	x	x	x										
11		86	0	✓	x	x	x	x	x										
12		87	30	✓					xx	xx									Had to return!
13		88	15	✓					xx	xx									
14		89	5	✓					xx	xx									
15		90	Bot-10	✓															x
16		91	100	✓															x
17		92	75	✓															x
18		93	50	✓															x
19		94	25	✓															x
20		95	5	✓															x
21																			
22																			
23																			
24																			

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

Bottom Depth: 117 m  
 Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	<u>2228</u>	<u>1428</u>
Bottom	<u>2231</u>	
End	<u>2245</u>	

Positional Information  
 Start  
 Lat: 48° 36.05 N  
 Lon: 125° 59.97 W

Bottom  
 Lat: 48° 36.05 N  
 Lon: 125° 59.98 W

End  
 Lat: 48° 36.04 N  
 Lon: 126° 0.01 W

Extra comments:  
 DMS + Kohen cast; out-of-order  
~~15-16-1-2-17-18-3-4-5~~  
~~12-6-19-7-8-13-9-10-14~~  
 20-11





# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P4 Event #: 21 Ship: Tully UTC Date (dd|mmm|yyyy): 12 | 2 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed Pressure	UBC	Cs													
1		152	Bot-10	✓	1319		x												
2		153	Bot-10	✓															
3		154	Bot-10	✓															
4		155	Bot-10	✓															
5		156	1000	✓	1001		x												
6		157	1000	✓															
7		158	1000	✓															
8		159	1000	✓															
9		160	500	✓	501		x												
10		161	500	✓															
11		162	500	✓															
12		163	500	✓															
13		164	10	✓	10		x												
14		165	10	✓															
15		166	10	✓															
16		167	10	✓															
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 1310 m  
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0437	2037
Bottom	0459	
End	0527	

Positional Information

Start  
 Lat: 48 ° 39.01 N  
 Lon: 126 ° 39.99 W

Bottom  
 Lat: 48 ° 39.01 N  
 Lon: 126 ° 39.99 W

End  
 Lat: 48 ° 39.01 N  
 Lon: 126 ° 40.00 W

Extra comments:  
 Sam

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P4 Event #: 22 Ship: Tully UTC Date (dd|mmm|yyyy): 12 | FEB | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials		Comments
			Target Pressure	Confirmed Pressure	TM	TM	
1		168		40	X	X	KS D.Y
2		169		20	X	X	
3		170		10	XX	XX	
4		171		5			
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): KS. D.Y.

Bottom Depth: 1312 m  
 Transmisso Cleaned:  Y  N

Time	UTC	Local
Start	0612	22:04
Bottom		
End	0704	23:04

Positional Information

Start	Lat: <u>48</u> ° <u>39.01</u> N
	Lon: <u>126</u> ° <u>39.99</u> W

Bottom

Lat: ° N
Lon: ° W

End

Lat: <u>48</u> ° <u>39.07</u> N
Lon: <u>126</u> ° <u>39.99</u> W

Extra comments:  
TM pumping





# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P6 Event #: 28 Ship: Tully UTC Date (dd|mmm|yyyy): 12 | Feb | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	
1	1	280	2000	✓ 2007					Water for CW
2	2	281	250	✓ 249					NH4 water
3	3	282	30	✓	x		xx	xx	
4	4	283	5	✓	x	x	xx	xx	
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: 2540 m  
 Transmisso Cleaned:  Y /  N

	UTC	Local
Time Start	1725	0925
Bottom	1757	
End	1834	

**Positional Information**

Start  
 Lat: 48° 44.66 N  
 Lon: 127° 40.15 W

▼

Bottom  
 Lat: 48° 44.66 N  
 Lon: 127° 40.15 W

▼

End  
 Lat: 48° 44.66 N  
 Lon: 127° 40.15 W

Extra comments:

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01

Station: P7

Event #: 29

Ship: Tully

UTC Date (dd|mmm|yyyy): 12 | 2 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments				
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC									
1	1	284	30	✓ 30	x		xx	xx									
2	2	285	5	✓ 5	x	x	xx	xx									
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: 2501 m  
 Transmisso Cleaned:  Y /  N

Time	UTC	Local
Start	2111	1311
Bottom	2144	
End	2216	

Positional Information

Start  
 Lat: 48° 46.61 N  
 Lon: 128° 10.05 W

Bottom  
 Lat: 48° 46.60 N  
 Lon: 128° 10.10 W

End  
 Lat: 48° 46.61 N  
 Lon: 128° 9.96 W

Extra comments:

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P8 Event #: 30 Ship: Tully UTC Date (dd/mmm/yyyy): 13/2/2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut Fr	Nut C	pH	Chl	HPLC	Céline						
1		286	2000	✓	xx	xx	x	x										
2		287	1500	✓	x	x	x	x						x				
3		288	1250	✓	x	x	xx	xx										
4		289	1000	✓	1001	x	xx	x	x					x				
5		290	800	✓		x	x	x	x									
6		291	600	✓		x		x	x					x				
7		292	400	✓		x		x	x									
8		293	300	✓		x		x										
9		294	250	✓		xx		x										DIDN'T CLOSE
10		295	200	✓	198	x		x						x				
11		296	175	✓		x		x										
12		297	150	✓		x		xx										
13		298	125	✓		x		x										
14		299	100	✓		x		x						x				
15		300	75	✓		x		x						x				
16		301	50	✓		x		x						x				
17		302	25	✓		xx		x						x				
18		303	10	✓		x		x						x				
19		304	5	✓		x	x	x						x				
20		305	50	✓										xx	xx			
21		306	20	✓										xx	xx			
22		307	5	✓										xx	xx			
23																		
24																		

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

Bottom Depth: 3362 m  
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0035	1635
Bottom	0109	
End	0203	

Positional Information  
 Start  
 Lat: 48° 48.96 N  
 Lon: 128° 39.95 W

Bottom  
 Lat: 48° 48.95 N  
 Lon: 128° 39.95 W

End  
 Lat: 48° 48.98 N  
 Lon: 128° 40.07 W

Extra comments:  
 Firing out of order  
 1 - 16; 20; 17; 21; 18 - 19; 22

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P9 Event #: 34 Ship: Tully UTC Date (dd|mmm|yyyy): 13|2|2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	
1	2	308	50	✓ 50	x		xx	xx	
2	3	309	5	✓ 5	x	x	xx	xx	
3									
4									
5									
6									
7									
8									
9	1	NA	2005	✓ 2005	-----				← Test fired @ 2005 m
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: 2514 m  
 Transmisso Cleaned:  Y  N

Time	UTC	Local
Start	0620	2220
Bottom	0653	
End	0729	

Positional Information  
 Start  
 Lat: 48° 51.40' N  
 Lon: 129° 10.00' W

Bottom  
 Lat: 48° 51.38' N  
 Lon: 129° 9.98' W

End  
 Lat: 48° 51.34' N  
 Lon: 129° 10.03' W

Extra comments:  
 9-1-2

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P10 Event #: 36 Ship: Tully UTC Date (dd|mmm|yyyy): 13 | FEB | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials							Comments								
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	Cs											
1	1	310	300	✓	200						x									
2	2	311	300	✓							x									
3	3	312	300	✓							x									
4	4	313	300	✓							x									
5	5	314	300	✓							x									
6	6	315	300	✓							x									
7	7	316	150	✓	151						x									
8	8	317	150	✓							x									
9	9	318	150	✓							x									
10	10	319	150	✓							x									
11	11	320	150	✓							x									
12	12	321	150	✓							x									
13	13	322	50	✓	51						x									
14	14	323	50	✓							x									
15	15	324	50	✓							x									
16	16	325	50	✓							x									
17	17	326	50	✓							x									
18	18	327	50	✓							x									
19	19	328	5	✓	5						x									
20	20	329	5	✓							x									
21	21	330	5	✓							x									
22	22	331	5	✓							x									
23	23	332	5	✓							x									
24	24	333	5	✓							x									

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

Bottom Depth: 2640 m  
 Transmisso Cleaned:  Y /  N

Time	UTC	Local
Start	10:21	2:21
Bottom	10:54	
End	11:32	

Positional Information  
 Start  
 Lat: 48 ° 53 62 N  
 Lon: 129 ° 40 04 W

Bottom  
 Lat: 48 ° 53 62 N  
 Lon: 129 ° 40 08 W

End  
 Lat: 48 ° 53 63 N  
 Lon: 129 ° 40 07 W

Extra comments:  
Cs Sampling + IOS Sampling

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P11 Event #: 37 Ship: Tully UTC Date (dd|mmm|yyyy): 13 | FEB | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	
1	1	334	50	✓ 50	x		xx	xx	
2	2	335	5	✓	x	x	xx	xx	
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: 2752 m  
 Transmisso Cleaned:  Y /  N

Time	UTC	Local
Start	14 11	06 11
Bottom	14 44	
End	15 16	

Positional Information

Start  
 Lat: 48 ° 56 01 N  
 Lon: 130 ° 10 07 W

Bottom  
 Lat: 48 ° 56 02 N  
 Lon: 130 ° 10 04 W

End  
 Lat: 48 ° 56 03 N  
 Lon: 130 ° 10 06 W

Extra comments:

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P12 Event #: 38 Ship: Tully UTC Date (dd|mmm|yyyy): 13 | 02 | 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments	
			Target Pressure	Confirmed Pressure	TM filt	TM un-filt								
1		336	40	✓	x	x								
2		337	20	✓	x	x								
3		338	10	✓	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: TM PUMP  
 ROS TRM X-Niskin other?  
 Watchkeeper(s): K.S. M.B.

Bottom Depth: 3453 m  
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	<u>18:02</u>	<u>10:02</u>
Bottom	<u>18:05</u>	<u>10:05</u>
End	<u>18:53</u>	<u>10:53</u>

**Positional Information**

Start	Lat: <u>48° 58.1467</u> N	Lon: <u>130° 39.9127</u> W
Bottom	Lat: <u>48° 58.1470</u> N	Lon: <u>130° 39.9068</u> W
End	Lat: <u>48° 58.1467</u> N	Lon: <u>130° 39.9111</u> W

Extra comments:  
TM pumping

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P12 Event #: 39 Ship: Tully UTC Date (dd|mmm|yyyy): 13 | 07 | 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	TM filt	TM un-filt	Sal	Nut-Fr	
1		339	200	150	x	x	x	x	
2		340	150	125	x	x			
3		341	100	75	xx	xx			
4		342	75	50	x	x			
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): KS M.B

Bottom Depth: 3753 m  
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1905	
Bottom	1926	
End	2020	

Positional Information

Start	Lat: 48° 58.15 N	Lon: 130° 37.91 W
Bottom	Lat: 48° 58.14 N	Lon: 130° 39.91 W
End	Lat: 48° 57.13 N	Lon: 130° 39.90 W

Extra comments:  
 TM Shallow Go-flos  
 Refine 125m  
 Winch = Broken

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P12 Event #: 40 Ship: Tully UTC Date (dd|mmm|yyyy): 13 | FEB | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials							Sam	Gases	Comments		
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH	UBC				UBC	
1		343	Bot-10	✓	3271	x		x	x	x	x			x	XXXX	
2		344	3000	✓		x	xx	x	x	xx	x					
3		345	3000	✓		x	x	x	x	x	x			x	XXXX	
4		346	2500	✓		xx	xx	x	x	x	xxx					
5		347	2000	✓		x	x	xx	xx	x	x			x	XXXX	
6		348	1500	✓		x	x	x	x	x	x			x	XXXX	
7		349	1250	✓		x	x	x	x	x	x			x	XXXX	
8		350	1000	✓		xx	xx	x	x	x	x			x	XXXX	
9		351	800	✓		x		x	x	x	x			x	XXXX	
10		352	600	✓		x		x	x	x	x			x	XXXX	
11		353	400	✓		x		x	x	x	x			x	XXXX	
12		354	300	✓		x		x		x	x			x	XXXX	
13		355	250	✓		xx		x		x	x					
14		356	200	✓		x		x		x	x			x	XXXX	
15		357	175	✓		x		x		x	xxx					
16		358	150	✓		x		x		x	x			x	XXXX	
17		359	125	✓		x		x		x	x					
18		360	100	✓		x		xx		x	x			x	XXXX	
19		361	75	✓		xx		x		x	x					
20		362	50	✓		x		x		x	x			x	XXXX	
21		363	25	✓		x		x		x	x			x	XXXX	
22		364	10	✓		x		x		x	x			x	XXXX	
23		365	5	✓		x	x	x		x	x					
24																

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

Bottom Depth: 3232 m  
 Transmisso Cleaned:  Y /  N

Time	UTC	Local
Start	2132	1332
Bottom	2226	
End	2338	

Positional Information  
 Start  
 Lat: 48 ° 58.18 N  
 Lon: 130 ° 39.86 W

Bottom  
 Lat: 48 ° 58.21 N  
 Lon: 130 ° 39.86 W

End  
 Lat: 48 ° 58.21 N  
 Lon: 130 ° 39.99 W

Extra comments:  
 Deep cast



# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01

Station: P12

Event #: 42

Ship: Tully

UTC Date (dd|mmm|yyyy): 14 | 02 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed ✓ Pressure	TM filt	TM un-filt	Sal	Nut-Fr	
1		366	800		x	x	x	x	went very well
2		367	<del>600</del> 400	600	x	x			
3		368	<del>400</del> 200	400	xx	xx			
4		369	<del>300</del> 200	200	x	x			
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

Profile type: ROS TRM  Niskin other?

Watchkeeper(s): K.S. R.N

Bottom Depth: 3233 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	02:45	5:45
Bottom	02:10	6:10
End	02:42	6:42

Positional Information

Start Lat: 48 ° 58 20 N

Start Lon: 130 ° 39 99 W

Bottom Lat: 48 ° 58 . 20 N

Bottom Lon: 130 ° 39 . 99 W

End Lat: 48 ° 58 . 21 N

End Lon: 130 ° 39 . 99 W

Extra comments:

TM Deep Go-flos

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P12 Event #: 46 Ship: Tully UTC Date (dd|mmm|yyyy): 14|2|2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Sam	Céline												
1		394	Bot-10	✓	3273				x									
2		395	3000	✓	3000				x									
3		396	2500	✓	2501				x									
4		397	2000	✓					x									
5		398	1500	✓	1502				x									
6		399	1250	✓	1250				x									
7		400	1000	✓	1000				x									Bottom cap leaky
8		401	800	✓	800				x									
9		402	600	✓					x									
10		403	400	✓	400				x									
11		404	300	✓	300				x									
12		405	250	✓	249				x									
13		406	2000	✓				x										
14		407	2000	✓														
15		408	2000	✓														
16		409	1000	✓				x										
17		410	1000	✓														
18		411	1000	✓														
19		412	500	✓				x										
20		413	500	✓														
21		414	500	✓														
22		415	10	✓				x										
23		416	10	✓														
24		417	10	✓														

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

Bottom Depth: 3234 m  
 Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0445	2045
Bottom	0541	
End	0650	

Positional Information  
 Start  
 Lat: 48 ° 58.21 N  
 Lon: 130 ° 39.98 W

Start

Bottom  
 Lat: 48 ° 58.21 N  
 Lon: 130 ° 39.98 W

Bottom

End  
 Lat: 48 ° 58.21 N  
 Lon: 130 ° 39.99 W

End

Extra comments:  
 Sam + Céline  
 OUT-OF-ORDER  
 1 - 4; 13 - 15; 5 - 7; 16 - 18; 8 - 9;  
 19 - 21; 10 - 12; 22 - 24

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01

Station: P13

Event #: 48

Ship: Tully

UTC Date (dd|mmm|yyyy): 11 | Feb | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	
1	1	418	50	✓	x		xx	xx	
2	2	419	5	✓	x	x	xx	xx	
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: 3033 m  
 Transmisso Cleaned:  Y /  N

	UTC	Local
Start	11 26	03:26
Bottom	11 59	
End	12 31	

Positional Information

Start	Lat: 49 ° 2 60 N	Lon: 131 ° 39 92 W
Bottom	Lat: 49 ° 2 59 N	Lon: 131 ° 39 93 W
End	Lat: 49 ° 2 59 N	Lon: 131 ° 39 98 W

Extra comments:

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P14 Event #: 49 Ship: Tully UTC Date (dd|mmm|yyyy): 14 | FEB | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials							Comments					
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	Nd								
1	1	420	Bot-10	✓	3359							x					p:3358 S:3316 all 8.7
2	2	421	Bot-10	✓	3359							x					
3	3	422	3000	✓	3000							x					
4	4	423	3000	✓	3000							x					
5	5	424	2500	✓	2500							x					
6	6	425	2500	✓	2500							x					
7	7	426	2000	✓	2000							x					
8	8	427	2000	✓	2000							x					
9	9	428	1500	✓	1500							x					
10	10	429	1500	✓	1500							x					
11	11	430	1000	✓	1000							x					
12	12	431	1000	✓	1000							x					
13	13	432	800	✓	800							x					
14	14	433	800	✓	800							x					
15	15	434	600	✓	600							x					
16	16	435	600	✓	600							x					
17	17	436	400	✓	400							x					
18	18	437	400	✓	400							x					
19	19	438	200	✓	200							x					
20	20	439	200	✓	200							x					
21	21	440	50	✓	50							x					
22	22	441	50	✓	50							x					
23	23	442	50	✓	50	x			x x	x x							
24	24	443	5	✓	5	x	x		x x	x x							

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

Bottom Depth: 3317 m  
 Transmisso Cleaned:  Y /  N

Time	UTC	Local
Start	1713	
Bottom	1809	
End	1912	

Positional Information  
 Start  
 Lat: 49 ° 7 40 N  
 Lon: 132 ° 39 94 W

Bottom  
 Lat: 49 ° 7 40 N  
 Lon: 132 ° 39 94 W

End  
 Lat: 49 ° 7 40 N  
 Lon: 132 ° 39 94 W

Extra comments:  
 Cast + Maureen  
 + IOS Sampling

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P15 Event #: 51 Ship: Tully UTC Date (dd|mmm|yyyy): 14 | 2 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	
1	1	444	50	✓ 50	x		x x	x x	
2	2	445	5	✓	x	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):

Bottom Depth: 3406 m  
 Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2327	1927
Bottom	2359	
End	0036	

Positional Information  
 Start  
 Lat: 49° 12.00 N  
 Lon: 133° 40.00 W

Bottom  
 Lat: 49° 12.01 N  
 Lon: 133° 40.07 W

End  
 Lat: 49° 12.02 N  
 Lon: 133° 40.01 W

Extra comments:

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P16 Event #: 52 Ship: Tully UTC Date (dd|mmm|yyyy): 15 | 2 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments					
			Target Pressure	Confirmed Pressure	Cs															
1		446	150	✓	149	x														
2		447	150	✓		x														
3		448	150	✓		x														
4		449	150	✓		x														
5		450	150	✓		x														
6		451	150	✓		x														
7		452	100	✓	100	x														
8		453	100	✓		x														
9		454	100	✓		x														
10		455	100	✓		x														
11		456	100	✓		x														
12		457	100	✓		x														
13		458	50	✓	50	x														
14		459	50	✓		x														
15		460	50	✓		x														
16		461	50	✓		x														
17		462	50	✓		x														
18		463	50	✓		x														
19		464	0	✓	2	x														
20		465	0	✓		x														
21		466	0	✓		x														
22		467	0	✓		x														
23		468	0	✓		x														
24		469	0	✓		x														

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

Bottom Depth: 3200 m  
 Transmisso Cleaned:  Y  N

Time	UTC	Local
Start	<u>0504</u>	<u>2104</u>
Bottom	<u>508</u>	
End	<u>0515</u>	

Positional Information  
 Start  
 Lat: 49° 17.00 N  
 Lon: 134° 40.02 W

Bottom  
 Lat: 49° 17.00 N  
 Lon: 134° 40.02 W

End  
 Lat: 49° 17.00 N  
 Lon: 134° 40.02 W

Extra comments:  
Shallow Cesium cast

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P16 Event #: 53 Ship: Tully UTC Date (dd|mmm|yyyy): 15 | 2 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials						Chl	HPLC	Comments
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-F					
1		470	300	✓ 300	x			x					
2		471	200	✓ 201	x	x	x	x					
3		472	175	✓ 176	x	x	x	x					
4		473	100	✓ 100	x	x	x	x		x			
5		474	75	✓ 75	x			x		x			
6		475	50	✓ 50	x			x		xx	xx		
7		476	40	✓ 40	x			x		x			
8		477	30	✓ 30	x			x		x			
9		478	25	✓ 25	x			x		x			
10		479	20	✓ 21	xx	xx	xx	x		xx	xx		
11		480	15	✓ 14	x			x		x			
12		481	10	✓ 10	x			xx		x			
13		482	5	✓ 5	x	x	x	x		xx	xx		
14		483	0	✓ 1	x	x	x	x		x			
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													

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

Bottom Depth: 3200 m  
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0538	2138
Bottom	0544	
End	0602	

Positional Information  
 Start  
 Lat: 49° 17.01' N  
 Lon: 134° 40.01' W

Bottom  
 Lat: 49° 17.01' N  
 Lon: 134° 40.01' W

End  
 Lat: 49° 17.01' N  
 Lon: 134° 40.01' W

Extra comments:  
 DMS cast

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P16 Event #: 54 Ship: Tully UTC Date (dd|mmm|yyyy): 15 | 2 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials							Comments							
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH			Gases	UBC	Céline				
1		484	Bot-10	✓	3683	x		x	x	x	x				xxxx	x			
2		485	3500	✓	3500	x	x	x	x	xx	x								
3		486	3500	✓	3500	x	x	x	x	x	xxx								
4		487	3000	✓	2999	x	xx	x	x	x	x				xxxx	x			
5		488	2500	✓	2499	xx	x	x	x	x	x								
6		489	2000	✓	2000	x	xx	x	x	x	x				xxxx	x			
7		490	1500	✓	1500	x	x	x	x	x	x				xxxx	x	x		
8		491	1250	✓	1250	x	xx	xx	xx	x	x				xxxx	x			
9		492	1000	✓	1000	x	x	x	x	x	x				xxxx	x	x		
10		493	800	✓	800	x		x	x	x	x				xxxx	x			
11		494	600	✓	600	x		x	x	x	x				xxxx	x	x		
12		495	400	✓	400	x		x	x	x	x				xxxx	x			
13		496	300	✓	300	xx		x		x	x				xxxx	x			
14		497	250	✓	250	x		x		x	xxx								
15		498	200	✓	200	x		x		x	x				xxxx	x	x		
16		499	175	✓	175	xx		x		x	x								
17		500	150	✓	150	x		x		x	x				xxxx	x			
18		501	125	✓	125	x		x		x	x								
19		502	100	✓	100	x		x		x	x				xxxx	x	x		
20		503	75	✓	75	xx		x		x	x								
21		504	50	✓	50	x		xx		x	x				xxxx	x			
22		505	25	✓	25	x		x		x	x				xxxx	x			
23		506	10	✓	10	x		x		x	x				xxxx	x			
24		507	5	✓	5	x	x	x		x	x								

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

Bottom Depth: 2320 36.33  
 Transmisso Cleaned:  Y  N

Time	UTC	Local
Start	0632	2232
Bottom	0733	
End	0853	

Positional Information

Start	Lat: 49 ° 17.01 N	
	Lon: 134 ° 40.00 W	
Bottom	Lat: 49 ° 17.01 N	
	Lon: 134 ° 40.01 W	
End	Lat: 49 ° 17.01 N	
	Lon: 134 ° 40.01 W	

Extra comments:  
 Deep cast

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P16 Event #: 56 Ship: Tully UTC Date (dd|mmm|yyyy): 15 | 02 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials						Comments									
			Target Pressure	Confirmed <input checked="" type="checkbox"/> Pressure	TM filt	TM un-filt														
1		508	40		x	x														
2		509	20		xx	xx														
3		510	10		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: TM Pump  
 ROS TRM X-Niskin (other?)  
 Watchkeeper(s): KS

Bottom Depth: 3633 m  
 Transmisso Cleaned: Y/N

Time	UTC	Local
Start	<u>1014</u>	
Bottom	<u>1030</u>	
End	<u>1126</u>	

Positional Information  
 Start  
 Lat: 49° 17.01 N  
 Lon: 134° 40.00 W

Bottom  
 Lat: ° N  
 Lon: ° W

End  
 Lat: 49° 17.01 N  
 Lon: 134° 40.01 W

Extra comments:  
TM pumping

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P16 Event #: 57 Ship: Tully UTC Date (dd mmm yyyy): 15 Oct 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	TM filt	TM un-filt	Sai	Nut-Fr	
1		511	150		x	x	x	x	
2		512	125		xx	xx			
3		513	75		x	x			
4		514	50		x	x			
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

Profile type:  
 ROS TRM  Niskin other?  
 Watchkeeper(s): K.S.

Bottom Depth: 3632 m  
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	<u>11:34</u>	
Bottom		
End	<u>12:05</u>	

Positional Information

Start	Lat: <u>49</u> ° <u>17.01</u> N
Start	Lon: <u>134</u> ° <u>40.01</u> W

Start

Bottom

Bottom	Lat: ° N
Bottom	Lon: ° W

End

End	Lat: <u>49</u> ° <u>17.01</u> N
End	Lon: <u>134</u> ° <u>40.01</u> W

Extra comments:  
TM Shallow Go-flos

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P16 Event #: 59 Ship: Tully UTC Date (dd mmm yyyy): 15 02 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	TM filt	TM un-filt	Sal	Nut-Fr	
1		515	800		x	x	x	x	
2		516	600		xx	xx			
3		517	400		x	x			
4		518	200		x	x			
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

Profile type:  
 ROS TRM  Niskin other?  
 Watchkeeper(s): K.S MB

Bottom Depth: 3633 m  
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	<u>13:19</u>	<u>0519</u>
Bottom	<u>13:50</u>	
End	<u>14:27</u>	

Positional Information

Start	Lat: <u>49</u> ° <u>17.01</u> N
	Lon: <u>134</u> ° <u>40.01</u> W
Bottom	Lat: <u>~</u> ° <u>~</u> N
	Lon: <u>~</u> ° <u>~</u> W
End	Lat: <u>49</u> ° <u>17.01</u> N
	Lon: <u>134</u> ° <u>40.01</u> W

Extra comments:  
TM Deep Go-flos





# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P18 Event #: 64 Ship: Tully UTC Date (dd|mmm|yyyy): 16 | 2 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	
1	1	567	50	✓ 50	x		xx	xx	
2	2	568	5	✓ 6	x	x	xx	xx	
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): JY

Bottom Depth: 3832 m  
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0238	1838
Bottom	0313	
End	0346	

Positional Information  
 Start  
 Lat: 49 ° 26.03 N  
 Lon: 136 ° 40.04 W

Bottom  
 Lat: 49 ° 25.95 N  
 Lon: 136 ° 39.87 W

End  
 Lat: 49 ° 25.07 N  
 Lon: 136 ° 39.82 W

Extra comments:

# Water Properties Group

# Sampling Log

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

*Changed from 65-2*

Cruise ID: 2015-01 Station: P19 Event #: 65/66 Ship: Tully UTC Date (dd|mmm|yyyy): 16 | FEB | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	
24	1	569	50	✓ 50	x		x x	x x	Test lined bottles
32	2	570	5	✓ ~5	x	x	x x	x x	when computer crashed (~12:00) not sure if it dated use bottles 2+3 for samples
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: 3928 m  
 Transmisso Cleaned:  Y /  N

Time	UTC	Local
Start	10:11	02:11
Bottom	10:45	
End	11:39	

Positional Information

Start  
 Lat: 49 ° 29 99 N  
 Lon: 137 ° 40 11 W

Bottom  
 Lat: 49 ° 29 95 N  
 Lon: 137 ° 40 16 W

End  
 Lat: 49 ° 29 92 N  
 Lon: 137 ° 40 10 W

Extra comments:  
used bottles 2+3

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P20 Event #: 67 Ship: Tully UTC Date (dd|mmm|yyyy): 16 FEB 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials							Comments						
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH			Gases	UBC	Céline	Cr iso		
1		571	Bot-10	✓ 4025	x		x	x	x	x			xx	x				p=4025 D=3930 S=3966 A=11.5
2		572	3500	✓ 3500	x	x	x	x	xx	x			xx					
3		573	3500	✓ 3500	x	x	x	x	x	xxx								
4		574	3000	✓ 3000	x	xx	x	x	x	x			xx	x				
5		575	2500	✓ 2501	xx	x	x	x	x	x			xx					
6		576	2000	✓ 2001	x	xx	x	x	x	x			xx	x				
7		577	1500	✓ 1500	x	x	x	x	x	x			xx	x	x	x		
8		578	1250	✓ 1250	x	x	xx	xx	x	x			xx	x				
9		579	1000	✓ 1000	x	xx	x	x	x	x			xx	x	x			
10		580	800	✓ 800	x	x	x	x	x	x			xx	x				
11		581	600	✓ 600	x	x	x	x	x	x			xx	x	x			
12		582	400	✓ 401	x	x	x	x	x	x			xx	x				
13		583	300	✓ 300	xx	x	x		x	x			xx	x				
14		584	250	✓ 252	x	x	x		x	xxx								
15		585	200	✓ 201	x	x	x		x	x			xx	x	x			
16		586	175	✓ 175	x	x	x		x	x								
17		587	150	✓ 150	xx	x	x		x	x			xx	x				
18		588	125	✓ 125	x	x	x		x	x								
19		589	100	✓ 100	x	x	x		x	x			xx	x	x			
20		590	75	✓ 75	x	x	x		x	x								
21		591	50	✓ 51	x	x	xx		x	x			xx	x				
22		592	25	✓ 25	x	x	x		x	x			xx	x				
23		593	10	✓ 10	xx	x	x		x	x			xx	x				
24		594	5	✓ 5	x	x	x		x	x								

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

Bottom Depth: 3966 m  
 Transmisso Cleaned:  Y /  N

Time	UTC	Local
Start	18 20	10 20
Bottom	19 26	
End	20 52	

Positional Information

Start  
 Lat: 49 ° 34 06 N  
 Lon: 138 ° 40 07 W

Bottom  
 Lat: 49 ° 34 06 N  
 Lon: 138 ° 40 07 W

End  
 Lat: 49 ° 34.06 N  
 Lon: 138 ° 40.07 W

Extra comments:  
 Deep cast

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01

Station: P20

Event #: 68

Ship: Tully

UTC Date (dd|mmm|yyyy): 16 | 02 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials		Comments
			Target Pressure	Confirmed Pressure	TM filt	TM un-filt	
1		595	40	✓	x x	x x	
2		596	20	✓	x	x	
3		597	10	✓	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? *PUMP*  
 Watchkeeper(s): *K.S. D.V.*

Bottom Depth: *3965* m  
 Transmisso Cleaned: *Y-N*

Time	UTC	Local
Start	<i>2110</i>	
Bottom	<i>2245</i>	
End	<i>2245</i>	

Positional Information  
 Start  
 Lat: *49 ° 35.0* N  
 Lon: *138 ° 40.0* W

Bottom  
 Lat: ° N  
 Lon: ° W

End  
 Lat: *49 ° 34.00* N  
 Lon: *138 ° 40.06* W

Extra comments:  
*TM pumping*

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01

Station: P20

Event #: 69

Ship: Tully

UTC Date (dd|mmm|yyyy): 16 | 02 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	TM filt	TM un-filt	Sal	Nut-Fr	
1		598	150	175	x	x	x	x	
2		599	125		x	x			
3		600	75		x	x			
4		601	50		x	x			
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

Profile type:  
 ROS TRM  Niskin other?  
 Watchkeeper(s): KS. DY

Bottom Depth: 3965 m  
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2249	
Bottom	2259	1405
End	2310	

Positional Information  
 Start  
 Lat: 49 ° 33.99 N  
 Lon: 138 ° 40.06 W

Bottom  
 Lat: 49 ° 33.98 N  
 Lon: 138 ° 40.06 W

End  
 Lat: 49 ° 33.99 N  
 Lon: 138 ° 40.07 W

Extra comments:  
 TM Shallow Go-flos



# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01

Station: P20

Event #: 73

Ship: Tully

UTC Date (dd/mmm/yyyy): 17 / 2 / 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed <input checked="" type="checkbox"/> Pressure	TM filt	TM un-filt	Sal	Nut-Fr	
1		616	800		x x	x x	x	x	
2		617	600		x	x			
3		618	400		x	x			
4		619	200		x	x			
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): KS DY

Bottom Depth: 3964 m  
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0130	5:54 AM
Bottom	0158	
End	0230	

Positional Information

Start	Lat: 49° 33.86 N	Lon: 138° 40.17 W
Bottom	Lat: 49° 33.88 N	Lon: 138° 40.18 W
End	Lat: 49° 33.88 N	Lon: 138° 40.18 W

Extra comments:  
 TM Deep Go-flos



# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P22 Event #: 78 Ship: Tully UTC Date (dd|mmm|yyyy): 17 | FEB | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials					Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	Nut-C	
1	1	644	600	✓ 601	x				x	Nutrients water
2	2	645	50	✓ 49	x		xx	xx		
3	3	646	5	✓ 4	x	x	xx	xx		
4	4	647	5	✓ ↓	x				x	Nutrients water
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: 3893 m  
 Transmisso Cleaned:  Y  N

Time	UTC	Local
Start	10 58	0258
Bottom	11 31	
End	12 07	

Positional Information

Start  
 Lat: 49 ° 42 05 N  
 Lon: 140 ° 39 95 W

Bottom  
 Lat: 49 ° 42 05 N  
 Lon: 140 ° 39 94 W

End  
 Lat: 49 ° 42 05 N  
 Lon: 140 ° 39 90 W

Extra comments:  
Not Daily Cal  
Water for 2015



# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P24 Event #: 81 Ship: Tully UTC Date (dd|mmm|yyyy): 17|2|2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	
1	1	672	50	✓ 57	x		xx	xx	
2	2	673	5	✓ 5	x	x	xx	xx	
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): 24

Bottom Depth: 3987 m  
 Transmisso Cleaned:  Y /  N

Time	UTC	Local
Start	2038	1238
Bottom	2111	
End	2146	

Positional Information

Start	Lat: 49 ° 50.27 N	Lon: 142 ° 40.09 W
Bottom	Lat: 49 ° 50.39 N	Lon: 142 ° 40.09 W
End	Lat: 49 ° 50.36 N	Lon: 142 ° 40.24 W

Extra comments:

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P25 Event #: 84 Ship: Tully UTC Date (dd|mmm|yyyy): 18|2|15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments		
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC							
1	1	674	50	✓ 50	x		xx	xx							
2	2	675	5	✓ 5	x	x	xx	xx							
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: 4148 m  
 Transmisso Cleaned:  Y /  N

Time	UTC	Local
Start	0155	1755
Bottom	0228	
End	0301	

Positional Information  
 Start  
 Lat: 49° 59.97 N  
 Lon: 143° 36.30 W

Bottom  
 Lat: 50° 0.01 N  
 Lon: 143° 36.39 W

End  
 Lat: 50° 0.03 N  
 Lon: 143° 36.57 W

Extra comments:

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P35 Event #: 85 Ship: Tully UTC Date (dd|mmm|yyyy): 18 | 2 | 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	
1	1	676	50	✓ 50	x		xx	xx	
2	2	677	5	✓ 5	x	x	xx	xx	
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): JY

Bottom Depth: 4.50 m  
 Transmisso Cleaned:  N

Time	UTC	Local
Start	0612	2212
Bottom	0645	
End	0719	

Positional Information  
 Start  
 Lat: 49° 59.88' N  
 Lon: 144° 18.26' W

Bottom  
 Lat: 49° 59.84' N  
 Lon: 144° 18.27' W

End  
 Lat: 49° 59.86' N  
 Lon: 144° 18.30' W

Extra comments:



# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P26 Event #: 87 Ship: Tully UTC Date (dd|mmm|yyyy): 18 | FEB | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments					
			Target Pressure	Confirmed Pressure	Cs															
1		702	500	✓	500		x													
2		703	500	✓			x													
3		704	500	✓			x													
4		705	500	✓			x													
5		706	500	✓			x													
6		707	500	✓			x													
7		708	400	✓	400		x													
8		709	400	✓			x													
9		710	400	✓			x													
10		711	400	✓			x													
11		712	400	✓			x													
12		713	400	✓			x													
13		714	300	✓	299		x													
14		715	300	✓			x													
15		716	300	✓			x													
16		717	300	✓			x													
17		718	300	✓			x													
18		719	300	✓			x													
19		720	200	✓	200		x													
20		721	200	✓			x													
21		722	200	✓			x													
22		723	200	✓			x													
23		724	200	✓			x													
24		725	200	✓			x													

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

Bottom Depth: 4251 m  
 Transmisso Cleaned:  Y  N

Time	UTC	Local
Start	1326	0526
Bottom	1334	
End	1347	

Positional Information

Start	Lat: 49 ° 59 99 N
	Lon: 144 ° 59 99 W

Bottom

Lat: 49 ° 59 99 N
Lon: 144 ° 59 99 W

End

Lat: 49 ° 59 99 N
Lon: 144 ° 59 99 W

Extra comments:  
**Deep Cesium cast**



# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P26 Event #: 89 Ship: Tully UTC Date (dd|mmm|yyyy): 18 | Feb | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed Pressure	Nd	REE													
1		740	1000	✓	1000		x	x											4.2
2		741	1000	✓	↓		x	x											4.0 <i>rosette leaking on 1000</i>
3		742	800	✓	800		x	x											4.2
4		743	800	✓	↓		x	x											4.1
5		744	600	✓	600		x	x											4.5
6		745	600	✓	↓		x	x											4.5
7		746	400	✓	400		x	x											4.7
8		747	400	✓	↓		x	x											4.7
9		748	200	✓	200		x	x											4.9
10		749	200	✓	↓		x	x											4.9
11		750	50	✓	51		x	x											7.7
12		751	50	✓	↓		x	x											7.8
13		752	5	✓	5		x	x											7.9
14		753	5	✓	↓		x	x											7.9
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 4251 m  
 Transmisso Cleaned:  Y /  N

	UTC	Local
Time Start	18:15	10:15
Bottom	18:37	
End	18:54	

Positional Information

Start  
 Lat: 49 ° 59 99 N  
 Lon: 145 ° 0 02 W

Bottom  
 Lat: 49 ° 59 98 N  
 Lon: 145 ° 0 01 W

End  
 Lat: 49 ° 59 99 N  
 Lon: 144 ° 59 99 W

Extra comments:  
 Maureen's cast for Nd and REE

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P26 Event #: 98 Ship: Tully UTC Date (dd|mmm|yyyy): 8 | 02 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials						Comments			
			Target Pressure	Confirmed Pressure	TM filt	TM un-filt								
1		733	40	✓	x	x								
2		734	20	✓	x	x								
3		735	10	✓	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? *other?*  
 Watchkeeper(s): *K.S.*

Bottom Depth: *4250* m  
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	<i>19:05</i>	<i>11:08</i>
Bottom		<i>11:25</i>
End	<i>19:56</i>	<i>11:56</i>

Positional Information  
 Start  
 Lat: *49* ° *59.99* N  
 Lon: *145* ° *00.00* W

Bottom  
 Lat: *49* ° *59.99* N  
 Lon: *145* ° *00.00* W

End  
 Lat: *49* ° *59.99* N  
 Lon: *145* ° *00.00* W

Extra comments:  
*TM pumping*

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P26 Event #: 91 Ship: Tully UTC Date (dd|mmm|yyyy): 18 | 2 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments							
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-F	Chl	HPLC	Phyto									
1		754	300	✓ 300	x			x												
2		755	200	✓ 200	x	x	x	xx												
3		756	175	✓ 175	x	x	x	x												
4		757	100	✓ 102	x	x	x	x		x										
5		758	75	✓ 75	x			x		x										
6		759	50	✓ 50	x			x		xx	xx									
7		760	40	✓ 40	x			x		x										
8		761	30	✓ 31	x			x		x										
9		762	25	✓ 25	x			x		x										
10		763	20	✓ 20	xx	xx	xx	x		xx	xx									
11		764	15	✓ 14	x			x		x										
12		765	10	✓ 10	x			x		x										
13		766	5	✓ 5	x	x	x	x		xx	xx	xxx								
14		767	0	✓ 2	x	x	x	x		x										
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

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

Bottom Depth: 425.2 m  
 Transmisso Cleaned: (Y) 1 N

Time	UTC	Local
Start	2150	1350
Bottom	2155	
End	2213	

Positional Information  
 Start  
 Lat: 50 ° 0.01 N  
 Lon: 144 ° 59.98 W

Bottom  
 Lat: 50 ° 0.00 N  
 Lon: 144 ° 59.98 W

End  
 Lat: 49 ° 59.99 N  
 Lon: 144 ° 59.99 W

Extra comments:  
 DMS cast

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P26 Event #: 92 Ship: Tully UTC Date (dd|mmm|yyyy): 18|02|2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments		
			Target Pressure	Confirmed Pressure	TM	TM									
1		839	40	40											
2		839	UBC	25L	XXX										
3		839	UBC	10L	XXX										
4		839	UBC	250ml	XX										
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): KS

Bottom Depth: 4250 m  
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	19:56	11:56
Bottom		
End	21:08	13:08

Positional Information  
 Start  
 Lat: 49 ° 59.99 N  
 Lon: 145 ° 00.00 W

Bottom  
 Lat: ° N  
 Lon: ° W

End  
 Lat: 49 ° 59.99 N  
 Lon: 145 ° 00.01 W

Extra comments:  
**TM pumping for UBC**

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P26 Event #: 03 Ship: Tully UTC Date (dd|mmm|yyyy): 18|2|2015

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	Sam	Gases				
1	1	768	Bot-10	✓	4316	x		xx	x	x	x	x			x	xx		
2	2	769	4000	✓	3999	xx	xx	xx	x	x	x	x		x	x	xx		
3	3	770	3500	✓	3500	x	x	xx	x	xx	x	x		x		xx		
4	4	771	3000	✓	3001	x	x	xx	x	x	x	x		x	x	xx		
5	5	772	2500	✓	2501	x	x	xx	x	x	x	xxx		x		xx		
6	6	773	2000	✓	2001	x	xx	xx	x	x	x	x		x	x	xx		
7	7	774	1500	✓	1500	x	x	xx	x	x	x	x		x	x	xx		
8	8	775	1250	✓	1250	xx	x	xx	x	x	x	x		x	x	xx		
9	9	776	1000	✓	1000	x	x	xx	x	x	x	x		x	x	xx		
10	10	777	800	✓	801	x		xxxx	xx	x	x	x			x	xx		
11	11	778	600	✓	601	x		xx	x	x	x	x			x	xx		
12	12	779	400	✓	400	x		xx	x	x	x	x			x	xx		
13	13	780	300	✓	300	x		xx		x	x	x			x	xx		
14	14	781	250	✓	251	xx		xx		x	x	x						
15	15	782	200	✓	200	x		xx		x	x	x			x	xx		
16	16	783	175	✓	175	x		xxxx		x	x	x						
17	17	784	150	✓	150	x		xx		x	x	x			x	xx		
18	18	785	125	✓	125	xx		xx		x	x	x						
19	19	786	100	✓	100	x		xx		x	x	x			x	xx		
20	20	787	75	✓	76	x		xx		x	x	xxx						
21	21	788	50	✓	57	x		xx		x	x	x			x	xx		
22	22	789	25	✓	25	x		xx		x	x	x			x	xx		
23	23	790	10	✓	10	x		xx		x	x	x			x	xx		
24	24	791	5	✓	5	x	x	xx		x	x	x						

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

Bottom Depth: 4252 m  
 Transmisso Cleaned:  Y  N

Time	UTC	Local
Start	2248	1448
Bottom	0004	
End	0136	

Positional Information

Start  
 Lat: 49° 59.99 N  
 Lon: 144° 59.99 W

Bottom  
 Lat: 49° 59.99 N  
 Lon: 145° 0.00 W

End  
 Lat: 49° 59.99 N  
 Lon: 145° 0.00 W

Extra comments:  
Deep cast





# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P26 Event #: 98 Ship: Tully UTC Date (dd|mmm|yyyy): 19 Feb 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments							
			Target Pressure	Confirmed Pressure	Céline		Cr Iso	Cr Sp												
1	1	815	Bot-10	✓ 445	x		x	x												
2	2	816	4000	✓ 4000	x		x	x												
3	3	817	3500	✓ 3500	x		x	x												
4	4	818	3000	✓ 3000	x		x	x												
5	5	819	2500	✓ 2500	x		x	x												
6	6	820	2000	✓ 2000	x		x	x												
7	7	821	1500	✓ 1500	x		x	x												
8	8	822	1250	✓ 1250	x		x	x												
9	9	823	1000	✓ 1000	x		x	x												
10	10	824	800	✓ 800	x		x	x												
11	11	825	600	✓ 600	x		x	x												
12	12	826	400	✓ 400	x		x	x												
13	13	827	300	✓ 300	x		x	x												
14	14	828	250	✓ 250	x		x	x												
15	15	829	200	✓ 200	x		x	x												
16	16	830	175	✓ 175	x		x	x												
17	17	831	150	✓ 150	x		x	x												
18	18	832	125	✓ 125	x		x	x												
19	19	833	100	✓ 100	x		x	x												
20	20	834	75	✓ 75	x		x	x												
21	21	835	50	✓ 50	x		x	x												
22	22	836	25	✓ 25	x		x	x												
23	23	837	10	✓ 10	x		x	x												
24	24	838	5	✓ 5	x		x	x												

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

Bottom Depth: 4252 m  
 Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1625	0225
Bottom	1136	
End	1306	

Positional Information

Start	Lat: 49 ° 59 99 N
	Lon: 144 ° 59 99 W

Bottom

Lat: 49 ° 59 99 N
Lon: 144 ° 59 99 W

End

Lat: 49 ° 59 99 N
Lon: 144 ° 59 99 W

Extra comments:  
 Céline & Kohen's cast  
 with cups

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P26 Event #: 99 Ship: Tully UTC Date (dd|mmm|yyyy): 19|02|2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	TM filt	TM un-filt	Sal	Nut-Fr	
1		736	<del>150</del>	175	x x	x x	x	x	
2		737	125		x	x			
3		738	75		x	x			
4		739	50		x	x			
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): RS, MB

Bottom Depth: 4250 m  
 Transmisso Cleaned: Y-N

Time	UTC	Local
Start	<u>13:18</u>	<u>05:52</u>
Bottom	<del>13:48</del>	<del>06:22</del>
End	<u>13:57</u>	<u>05:57</u>

49 59 .99  
 Positional Information

	Lat	Lon
Start	<u>49 ° 59.99 N</u>	<u>125 ° 00.00 W</u>
	<u>144</u>	<u>▼ 59.98</u>
Bottom	<u>49 ° 59.99 N</u>	<u>145 ° 00.00 W</u>
		<u>▼</u>
End	<u>49 ° 59.58 N</u>	<u>144 ° 59.99 W</u>

Extra comments:  
**TM Shallow Go-flos**

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P20 P26 Event #: 100 Ship: Tully UTC Date (dd|mmm|yyyy): 19 | 02 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	TM	TM	Sal	Nut-Fr	
				✓	filt	un-filt			
1		840	800	✓	x	x	x	x	
2		841	600	✓	x	x			
3		842	400	✓	x	x			
4		843	200	✓	x x	x x			
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

Profile type:  
 ROS TRM  Niskin other?  
 Watchkeeper(s): K.S MB

Bottom Depth: 4250 m  
 Transmisso Cleaned: Y/N

Time	UTC	Local
Start	<u>14:30</u>	<u>6:30</u>
Bottom	<u>14:50</u>	<u>6:50</u>
End	<u>15:20</u>	<u>7:20</u>

Positional Information

Start  
 Lat: 49 ° 59 98 N  
 Lon: 124 ° 59 25 W

Bottom  
 Lat: 49 ° 59 98 N  
 Lon: 124 ° 59 98 W

End  
 Lat: 49 ° 59 98 N  
 Lon: 124 ° 59 98 W

Extra comments:  
TM Deep Go-flos



# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P5 Event #: 115 Ship: Tully UTC Date (dd|mmm|yyyy): 22 | Feb | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	
1	1	868	30	✓ 30	x		xx	xx	
2	2	869	5	✓ 5	x	x	xx	xx	
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: 2079 m  
 Transmisso Cleaned:  Y /  N

Time	UTC	Local
Start	1538	0738
Bottom	1611	
End	1645	

Positional Information

Start  
 Lat: 48 ° 41 51 N  
 Lon: 127 ° 9 77 W

Bottom  
 Lat: 48 ° 41 51 N  
 Lon: 127 ° 9 58 W

End  
 Lat: 48 ° 41 44 N  
 Lon: 127 ° 9 61 W

Extra comments:



# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P4 Event #: 119 Ship: Tully UTC Date (dd|mmm|yyyy): 22 | 2 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials							Comments		
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-F	Chl	HPLC	Phyto			
1		263	300	✓ 300	x			x						Vent loose (slightly)
2		264	200	✓ 200	x	x	x	x						
3		265	175	✓ 175	x	x	x	x						
4		266	100	✓ 100	x	x	x	x	x					
5		267	75	✓ 74	x			x	x					
6		268	50	✓ 50	x			x	x					
7		269	40	✓ 40	x			x	x					
8		270	30	✓ 29	x			x	x					
9		271	25	✓ 25	x			x	x					
10		272	20	✓ 19	xx	xx	xx	x	xx					
11		273	15	✓ 15	x			x	x					
12		274	10	✓ 10	x			xx	x					
13		275	5	✓ 5	x	x	x	x	x					
14		276	0	✓ 1	x	x	x	x	x					
15		277	30	✓ 29					xx	xx				
16		278	15	✓ 15					xx	xx				
17		279	5	✓ 5					xx	xx	xxx			
18														
19														
20														
21														
22														
23														
24														

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

Bottom Depth: 1315 m  
 Transmisso Cleaned:  Y /  N

Time	UTC	Local
Start	2009	1209
Bottom	2015	
End	2033	

Positional Information

Start  
 Lat: 48° 38.99 N  
 Lon: 126° 39.99 W

Bottom  
 Lat: 48° 38.99 N  
 Lon: 126° 39.99 W

End  
 Lat: 48° 38.99 N  
 Lon: 126° 39.99 W

Extra comments:  
 DMS cast - OUT-OF-ORDER  
 1-8; 15; 9-11; 16; 12-13; 17; 14

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01

Station: P4

Event #: 120

Ship: Tully

UTC Date (dd|mmm|yyyy): 22 | 02 | 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	TM filt	TM un-filt	Sal	Nut-Fr	
1		871	175	✓	x	x	x	x	
2		872	125	✓	x	x			
3		873	75	✓	xx	xx			
4		874	50		x	x			
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

Profile type:  
 ROS TRM  Niskin  other?  
 Watchkeeper(s): K.S

Bottom Depth: 1315 m  
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	21 15	1:15
Bottom	21 29	1:29
End	21 40	1:40

Positional Information

Start  
 Lat: ° N  
 Lon: ° W

Bottom  
 Lat: 48 ° 38.99 N  
 Lon: 126 ° 39.96 W

End  
 Lat: 48 ° 38.99 N  
 Lon: 126 ° 40.50 W

Extra comments:  
 TM Shallow Go-flos

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P4 Event #: 121 Ship: Tully UTC Date (dd|mmm|yyyy): 22 | 2 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	Oxy	Nut-F	Nut-C	Sal	DIC	pH	Sam	gases	Celine					
1		243	Bot-10	✓	1321	x	x	x		x	x	x	x					
2		244	1250	✓	1250	x	x	x	x	xx	x	x	x					
3		245	1250	✓	1250	xx	x	x	xx	x	x							
4		246	1000	✓	1000	x	x	x	xx	x	x	x	x		x			
5		247	800	✓	800	x	x	x	x	x	x	x	x					
6		248	600	✓	600	x	xx	xx		x	xxx	x	x		x			
7		249	400	✓	400	x	x	x		x	x	x	x					
8		250	300	✓	300	x	x			x	x	x	x					
9		251	250	✓	250	x	x			x	x							
10		252	200	✓	200	x	x			x	x	x	x					
11		253	175	✓	175	x	x			x	x							
12		254	150	✓	150	x	x			x	x	x	x					
13		255	125	✓	125	x	xx			x	x							
14		256	100	✓	100	x	x			x	x	x	x		x			
15		257	75	✓	75	xx	x			x	x							
16		258	50	✓	49	x	x			x	x	x	x					
17		259	25	✓	24	x	x			x	xxx	x	x					
18		260	10	✓	10	x	x			x	x	x	x		x			
19		261	5	✓	5	x	x			x	x							
20		262	1250	✓	1250										x			
21		870	1000	✓	1000								x					
22																		
23																		
24																		

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

Bottom Depth: 1315 m  
 Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2149	1349
Bottom	2212	
End	2249	

Positional Information  
 Start  
 Lat: 48° 38.99 N  
 Lon: 126° 39.99 W

Bottom  
 Lat: 48° 38.99 N  
 Lon: 126° 39.99 W

End  
 Lat: 48° 39.01 N  
 Lon: 126° 40.02 W

Extra comments:  
 Deep cast - OUT-OF-ORDER  
 1 - 3; 20 - 21; 4 - 19

# Water Properties Group

# Sampling Log

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

Cruise ID: 2015-01 Station: P4 Event #: 122 Ship: Tully UTC Date (dd|mmm|yyyy): 22|02|15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	TM filt	TM un-filt	Sal	Nut-Fr	
1		875	800		x	x	x	x	800m Did not fire
2		876	600		x	x			
3		877	400		xx	xx			
4		878	200		x	x			
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

Profile type:  
 ROS TRM  Niskin other?  
 Watchkeeper(s): KS

Bottom Depth: 1315 m  
 Transmisso Cleaned: Y / N

Time 23:00 UTC 15:00 Local  
 Start ~~23:00~~  
 Bottom 2  
 End 13:54 15:54

Positional Information  
 Start Lat: 48 ° 38.95 N  
 Lon: 126 ° 38.85 W  
 Bottom Lat: ° N  
 Lon: ° W  
 End Lat: 48 ° 38.95 N  
 Lon: 126 ° 38.49 W

Extra comments:  
 TM Deep Go-flos  
 800m did not close

