

Water Properties Group

Sampling Log

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

Cruise ID: 2014-19 Station: P26 Event #: 104 Ship: Tully UTC Date (dd|mmm|yyyy): 28 | AUG | 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 250m	UBC				
					MB/AM	AM	MB	MB	AR/ME	AR/ME	KS			AM				
1	1	645	Bot-10	✓ 4317	x		xx	x	x	x	x			x				
2	2	646	4000	✓ 4000	xx	xx	xx	x	xx	x	x		x	x				
3	3	647	3500	✓ 3500	x	x	xx	x	✗x	x	x		x					
4	4	648	3000	✓ 3000	x	x	xx	x	x	x	x		x	x				
5	5	649	2500	✓ 2500	x	x	xx	x	x	x	xxx		x					
6	6	650	2000	✓ 2000	x	xx	xx	x	x	x	x		x	x				
7	7	651	1500	✓ 1502	x	x	xx	x	x	x	x		x	x				
8	8	652	1250	✓ 1250	xx	x	xx	x	x	x	x		x	x				
9	9	653	1000	✓ 1001	x	x	xx	x	x	x	x		x	x				
10	10	654	800	✓ 801	x		xxx	xx	x	x	x			x				
11	11	655	600	✓ 603	x		xx	x	x	x	x			x				
12	12	656	400	✓ 401	x		xx	x	x	x	x			x				
13	13	657	300	✓ 300	x		xx		x	x	x			x				
14	14	658	250	✓ 250	xx		xx		x	x	x							
15	15	659	200	✓ 200	x		xx		x	x	x			x				
16	16	660	175	✓ 177	x		xxx		x	x	x							
17	17	661	150	✓ 151	x		xx		x	x	x			x				
18	18	662	125	✓ 125	xx		xx		x	x	x							
19	19	663	100	✓ 100	x		xx		x	x	x			x				
20	20	664	75	✓ 75	x		xx		x	x	xxx							
21	21	665	50	✓ 50	x		xx		x	x	x			x				
22	22	666	25	✓ 25	x		xx		x	x	x			x				
23	23	667	10	✓ 10	x		xx		x	x	x			x				
24	24	668	5	✓ 5	x	x	xx		x	x	x							

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

Bottom Depth:	4224	m
Transmisso Cleaned:	(Y) / N	

Time	UTC	Local
Start	1955	12:55
Bottom	2102	
End	2243	

Positional Information
Start
Lat: 50 ° 0 64 N
Lon: 144 ° 59 92 W

Bottom
Lat: 50 ° 0 01 N
Lon: 144 ° 59 97 W

End
Lat: 50 ° 0 01 N
Lon: 144 ° 59 97 W

Extra comments:
Deep cast

Water Properties Group

Sampling Log

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

Cruise ID: 2014-19 Station: P26 Event #: 105 Ship: Tully UTC Date (dd|mmm|yyyy): 29 | AUG | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Cesium												
1	1	669	500	✓ 500	x												
2	2	670	500	✓	x												
3	3	671	500	✓	x												
4	4	672	500	✓	x												
5	5	673	500	✓	x												
6	6	674	500	✓	x												
7	7	675	400	✓ 400	x												
8	8	676	400	✓	x												
9	9	677	400	✓	x												
10	10	678	400	✓	x												
11	11	679	400	✓	x												
12	12	680	400	✓	x												
13	13	681	300	✓ 300	x												
14	14	682	300	✓	x												
15	15	683	300	✓	x												
16	16	684	300	✓	x												
17	17	685	300	✓	x												
18	18	686	300	✓	x												
19	19	687	200	✓ 200	x												
20	20	688	200	✓	x												
21	21	689	200	✓	x												
22	22	690	200	✓	x												
23	23	691	200	✓	x												
24	24	692	200	✓	x												

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

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

Time	UTC	Local
Start	0034	1734
Bottom	0042	
End	0055	

Positional Information

Lat:	49 ° 59 99	N
Lon:	145 ° 0 00	W

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:
Cesium 2

Water Properties Group

Sampling Log

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

Cruise ID: 2014-19 Station: P26 Event #: 106 Ship: Tully UTC Date (dd|mmm|yyyy): 29 | AUG | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ☒ Pressure													
1	1	693	700	☒													
2	2	694	600	☒													
3	3	695	500	☒													
4	4	696	400	☒													
5	5	697	300	☒													
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 4226 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0129	0729
Bottom	0212	18
End	0646	

Positional Information

Lat:	49 °	59 96	N
Lon:	144 °	59 91	W

▼

Lat:	49 °	59 97	N
Lon:	144 °	59 97	W

▼

Lat:	49 °	59 99	N
Lon:	144 °	59 98	W

Extra comments:
in-situ pumps to 700

Water Properties Group

Sampling Log

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

Cruise ID: 2014-19 Station: P26 Event #: 109/110 Ship: Tully UTC Date (dd|mmm|yyyy): 29 Aug 2014

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials												Comments	
			Target Pressure	Confirmed	Pressure				Plastics										
				✓															
1	1	698	Bot-10	✓	4323					x									
2	2	699	4000	✓						x									
3	3	700	3500	✓						x									
4	4	701	3000	✓						x									
5	5	702	2500	✓						x									
6	6	703	2000	✓						x									
7	7	704	1500	✓						x									
8	8	705	1250	✓						x									
9	9	706	1000	✓						x									
10	10	707	800	✓						x									
11	11	708	600	✓						x									
12	12	709	400	✓						x									
13	13	710	300	✓						x									
14	14	711	250	✓						x									
15	15	712	200	✓						x									File 110 ↓ 175-5 ↓
16	16	713	175	✓						x									
17	17	714	150	✓						x									
18	18	715	125	✓						x									
19	19	716	100	✓						x									
20	20	717	75	✓						x									
21	21	718	50	✓						x									
22	22	719	25	✓						x									
23	23	720	10	✓						x									
24	24	721	5	✓						x									

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

Bottom Depth: 4329 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1136	0436
Bottom	1247	
End	1437	

Positional Information

Lat:	50°	0.00	N
Lon:	144°	59.99	W

Start

Lat:	50°	0.00	N
Lon:	144°	59.98	W

Bottom

Lat:	50°	00.00	N
Lon:	144°	59.98	W

End

Extra comments:

Plastics cast

Cruise ID: 2014-19 Station: P26 Event #: 111 Ship: Tully UTC Date (dd|mmm|yyyy) 2014 | 08 | 29

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure													
1	1	722	1500	/													
2	2	723	1250	/													
3	3	724	1000	/													CAME OFF BOTTOM BRACKET
4	4	725	800	/													CAME OFF BOTTOM BRACKET, TAPE SLID
5	5	726	500	/													CAUGHT ON BOTTOM BRACKET TOP CAME OFF - TAPE SLID
6																	
7																	
8																	
9																	
10																	
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20																	
21																	
22																	
23																	
24																	

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): SK

Bottom Depth: 4226 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1517	0817
Bottom	1615	
End	2132	

Positional Information

Start

Lat: 49 ° 59.87 N

Lon: 144 ° 59.85 W

Bottom

Lat: 49 ° 59.87 N

Lon: 144 ° 59.85 W

End

Lat: 49 ° 59.89 N

Lon: 144 ° 59.87 W

Extra comments:

in-situ pumps to 1500

Water Properties Group

Sampling Log

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

Cruise ID: 2014-19 Station: P26 Event #: 112 Ship: Tully UTC Date (dd|mmm|yyyy): 29 | Oct | 2014

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed		DMS	DMSP	DMSP	Nut-F	Chl	HPLC		UBC		Oxy				
				✓	Pressure		t	d							UVic	Uvic			
1	1	727	2000	✓	2000								x						
2	2	728	2000	✓									x						
3	3	729	2000	✓									x						
4	4	730	2000	✓									x						
5	5	731	2000	✓									x						
6	6	732	1000	✓	1000								x						
7	7	733	1000	✓									x						
8	8	734	1000	✓									x						
9	9	735	1000	✓									x						
10	10	736	1000	✓									x						
11	11	737	500	✓	500								x						
12	12	738	500	✓									x						
13	13	739	500	✓									x						
14	14	740	500	✓									x						
15	19	741	10	✓	10								x						
16	20	742	10	✓									x						
17	21	743	10	✓									x						
18	22	744	10	✓									x						
19	17	745	MDL-15	✓	45	xx	xx	xx	x	xx	xx						45m		
20	18	746	MLD+10	✓	21	xx	xx	xx	x	xx	xx						20m		
21	23	747	5	✓	5	xx	xx	xx	x	xx	xx								
22	15	748	200	✓	200									xx	xx				
23	16	749	150	✓	149									xx	xx				
24																			

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

Bottom Depth: 4226 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2135	1435
Bottom	2206	
End	2246	

Positional Information
Start
Lat: 49 ° 59 89 N
Lon: 144 ° 59 88 W

Bottom
Lat: 49 ° 59 89 N
Lon: 144 ° 59 88 W

End
Lat: 49 ° 59 89 N
Lon: 144 ° 59 88 W

Extra comments:
Andreas' cast + DMS + O¹⁷
OUT-OF-ORDER
✓✓✓✓✓
1-14; 22; 23; 19; 20; 15-18; 21

MDL - where temp drops suddenly, & salinity increases suddenly

Water Properties Group

Sampling Log

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

Cruise ID: 2014-19 Station: P26 Event #: 113 Ship: Tully UTC Date (dd|mmm|yyyy): 29 | Aug | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ☒ Pressure		Oxy	¹⁷ O										
1	1	750	100	☒ 100		x x	x x										
2	2	751	50	☒ 50		x x	x x										
3	3	752	20	☒ 20		x x	x x										
4	4	753	5	☒ 5		x x	x x										
5																	
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21																	
22																	
23																	
24																	

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

Watchkeeper(s): MS

Bottom Depth: 4226 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	<u>23 35</u>	<u>16 35</u>
Bottom	<u>23 38</u>	
End	<u>23 45</u>	

Positional Information

Start

Lat: 49 ° 59 92 N

Lon: 144 ° 59 98 W

Bottom

Lat: 49 ° 59 92 N

Lon: 144 ° 59 97 W

End

Lat: 49 ° 59 94 N

Lon: 144 ° 59 96 W

Extra comments:

O¹⁷ cast

Water Properties Group

Sampling Log

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

Cruise ID: 2014-19 Station: PA-008 Event #: 115 Ship: Tully UTC Date (dd|mmm|yyyy): 30 | AUG | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure		Oxy	ONAr	Sal									
1	1	754	10	✓ 10		x x	x x	x									
2	2	755	5	✓ 5		x x	x x	x									
3	3	756	2	✓ 2		x x	x x	x									
4																	
5																	
6																	
7																	
8																	
9																	
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17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Watchkeeper(s): MB

Bottom Depth: 4198 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0328	2028
Bottom	0336	
End	0347	

Positional Information

Start Lat: 50 ° 02 04 N

Start Lon: 144 ° 51 85 W

Bottom Lat: 50 ° 02 00 N

Bottom Lon: 144 ° 51 87 W

End Lat: 50 ° 01 96 N

End Lon: 144 ° 51 91 W

Extra comments:

ONAr cast

CTD to 500 dbar!

closed remaining bottles @ surface 4-24

Water Properties Group

Sampling Log

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

Cruise ID: 2014-19 Station: P26 Event #: 118 Ship: Tully UTC Date (dd|mmm|yyyy): 30 | Aug | 2011

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials													Comments		
			Target	Confirmed																	
			Pressure	✓	Pressure																
1	1	757	200	✓																	
2	2	758	150	✓																	
3	3	759	100	✓																	
4	4	760	50	✓																	
5	5	761																		Clamp failed did not put on line.	
6																					
7																					
8																					
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22																					
23																					
24																					

Profile type: Pump

ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 4217 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0433	2133
Bottom	0514	
End	0740	

Positional Information

Start

Lat: 50 ° 00 06 N

Lon: 144 ° 59 85 W

Bottom

Lat: 49 ° 59 95 N

Lon: 144 ° 59 99 W

End

Lat: 50 ° 00 00 N

Lon: 145 ° 00 18 W

Extra comments:

in-situ pumps to 150