

Water Properties Group

Rosette Log

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

Cruise ID: 2010-69

Station: Satchan 2

Event #: 1

Ship: Tully

UTC Date (dd|mmm|yyyy): 15 | 07 | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken					Comments	
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄		
1	1	1477	2.977	18.5	✓ 252							Bikes & STD run on 14th
2	2	3028	1.367	200	✓							Air bubbles in pickling
3	3	1316	3.164	175	✓							
4	4	1313/622	3.216	150	✓							3.219 = Rep
5	5	3108	3.216	125								
6	6	3126	3.174	100								
7	7	3180	---	75								Did not fire
8	8	2019	3.406	50								put as sample 7@75
9	9	2073	4.261	30								
10	10	3124	5.166	20								
11	11	1174	5.931	10								
12	12	1498	6.443	5								
13	13	3084	6.539	0								
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Watchkeeper(s): Shore, Scott, Ista

Bottom Depth: 252 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	0238	
Bottom	0245	
End		

Positional Information

Start
 Lat: 50 ° 4.44 N
 Lon: 125 ° 7.38 W

Bottom
 Lat: 50 ° 4.41 N
 Lon: 125 ° 7.40 W

End
 Lat: 50 ° 4.41 N
 Lon: 125 ° 7.37 W

Oxygen Info For This Cast

Blank Value: .0020 mL · L⁻¹

Std Value: 0.7117 mL · L⁻¹

*Date Run: SAMIE

Analyst: Shore R

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-69

Station: SUTCHAN1

Event #: 2

Ship: Tully

UTC Date (dd|mmm|yyyy): 16 | Sept | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken					Comments	
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄		
1	14	1201	2.546	B-10	452							
2	15	1459	2.593	400				X				
3	16	1327	2.905	300								
4	17	540	3.020	250								
5	18	1414	3.093	200								
6	19	2060 2055	3.108	175		✓						R=3.120
7	20	1326	3.156	150								
8	21	3116	3.120	125								
9	22	612	3.109	100								
10	23	1335	3.270	75								
11	24	3178	3.699	50								
12	25	2000	4.017	30								
13	26	3135	4.287	20								
14	27	1460	5.805	10								
15	28	3194	6.036	Surf								
16												
17												
18												
19												
20												
21												
22												
23												
24												

Watchkeeper(s): SR

Bottom Depth: 456 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	0411	
Bottom	0420	
End	0441	

Positional Information
 Start
 Lat: 50° 10.05 N
 Lon: 125° 1.57 W

Bottom
 Lat: 50° 10.04 N
 Lon: 125° 1.65 W

End
 Lat: 50° 10.04 N
 Lon: 125° 1.58 W

Oxygen Info For This Cast
 Blank Value: 0.0020 mL · L⁻¹
 Std Value: 0.7117 mL · L⁻¹
 *Date Run: 16 1091 10
 Analyst: SHANER

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-69

Station: DEPASS

Event #: 3

Ship: Tully

UTC Date (dd|mmm|yyyy): 16 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken						Comments		
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	NH ₄				
1	29	1477	2.498	B-10	✓									
2	30	3028	2.985	400	✓									
3	31	1316	2.886	300	✓									
4	32	1313	3.210	250	✓								large bubble on probe	
5	33	622	3.017	200	✓									
6	34	3108	3.160	175	✓									
7	35	3126	3.136	150	✓									
8	36	3180	3.147	125	✓									
9	37	3084 2012	3.223	100	✓								R = 3.119	
10	38	1498	3.320	75	✓									
11	39	1174	3.666	50	✓									
12	40	3124	3.998	30	✓									
13	41	2073	4.284	20	✓									
14	42	3043	5.612	10	✓									
15	43	2002	6.090	SURE	✓									
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): SR

Bottom Depth: 500 m
 Transmisso Cleaned: N

Time	UTC	Local
Start	0549	
Bottom	0558	
End	0625	

Positional Information
 Start
 Lat: 50° 16.11 N
 Lon: 124° 58.98 W

Bottom
 Lat: 50° 16.10 N
 Lon: 124° 59.03 W

End
 Lat: 50° 16.11 N
 Lon: 124° 58.97 W

Oxygen Info For This Cast
 Blank Value: 0.0020 mL · L⁻¹
 Std Value: 0.7117 mL · L⁻¹
 *Date Run: 16 | 09 | 2010
 Analyst: SR

* Oxygen blanks and standards should be run daily, if possible

NO REP

Water Properties Group

Rosette Log

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

Cruise ID: 2010-69 Station: LBP2 Event #: 6 Ship: Tully UTC Date (dd|mmm|yyyy): 17 | 09 | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken					Comments	
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄		
1	59	860	3.029	B-5	✓ 92							* large unnoticed bubble
2	60	861	3.844	75	✓ 75							
3	61	862	4.012	50	✓ 50							
4	62	863	4.665	30	✓ 30							
5	63	864	6.136	20	✓ 20							
6	64	865	6.398	10	✓ 10							
7	65	866	6.520	5	✓ 2-6							
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Watchkeeper(s): DSTV

Bottom Depth: 99 m

Transmisso Cleaned: Y / N

	UTC	Local
Time Start	2324	
Bottom	2333	
End	2340	

Positional Information

Start Lat:	50 ° 4.008	N
Start Lon:	127 ° 54.210	W
Bottom Lat:	50 ° 4.006	N
Bottom Lon:	127 ° 54.268	W
End Lat:	50 ° 3.983	N
End Lon:	127 ° 54.347	W

Oxygen Info For This Cast

Blank Value: .0020 mL · L⁻¹

Std Value: 0.7117 mL · L⁻¹

*Date Run: 17109110

Analyst: SR

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-69

Station: LBP4

Event #: 8

Ship: Tully

UTC Date (dd|mmm|yyyy): 18 | Sep | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken					Comments	
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	NH ₄		
1	66	3126	0.386	B-10	✓ 1084							
2	67	3108	0.353	1006	✓		X					
3	68	3028	0.317	800	✓							
4	69	1313	0.542	600	✓							
5	70	1373	0.821	500	✓							4s for DO
6	71	1337	1.183	400	✓							
7	72	1134	1.637	300	✓							
8	73	631	1.965	250	✓							
9	74	1248 1404	2.013	200	✓		X					All drops run on 200m
10	75	1319 1146	2.273	175	✓							D = wrong flask file
11	76	1487 690	2.791	150	✓							D = OPLERBOR
12	77	2027 3182	3.181	125	✓							D = 3.176
13	78	528 3159	3.459	100								D = 3.455
14	79	371 1374	3.397	75								D = 3.381
15	80	621 569	3.678	50								D = 3.680
16	81	649 1475	4.492	30								D = 4.477
17	82	1378 1261	5.743	20								D = 5.808
18	83	196 468	6.047	10								D = 6.073
19	84	1402 1400	6.150	Surf								D = 6.162
20												
21												
22												
23												
24												

reps taken for Autoxy testing!

Watchkeeper(s): SJR

Bottom Depth: 1092 m

Transmisso Cleaned: Y / N

	UTC	Local
Time Start	0232	
Bottom	0253	
End	0330	2130

Positional Information
 Start
 Lat: 50 ° 1.41 N
 Lon: 127 ° 58.16 W

Bottom
 Lat: 50 ° 1.39 N
 Lon: 127 ° 58.19 W

End
 Lat: 50 ° 1.41 N
 Lon: 127 ° 58.24 W

Oxygen Info For This Cast
 Blank Value: .0020 mL · L⁻¹
 Std Value: 0.7117 mL · L⁻¹
 *Date Run: 17/09/2010
 Analyst: SJR

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-69 Station: LBPS Event #: 9 Ship: Tully UTC Date (dd|mmm|yyyy): 18 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken					Comments	
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄		
1	85	1327	0.484	B-10	✓ 1282							
2	86	1326	0.307	1000	✓		X					
3	87	1335	0.273	800	✓							
4	88	570	0.517	600	✓							
5	89	3134 3116	0.782	500	✓	XX						0.798
6	90	1414	0.013	400	✓							
7	91	1460	1.394	300	✓							
8	92	1459	1.793	250	✓							
9	93	612	2.161	200	✓							
10	94	2000	2.388	175	✓							
11	95	2060	2.923	150								
12	96	1201	2.990	125								
13	97	3135	3.359	100								
14	98	3178	3.800	75								
15	99	2056	3.969	50								
16	100	2075	4.869	30								
17	101	3164	5.261	20								
18	102	3107	6.013	10								
19	103	3118	6.052	surf								
20												
21												
22												
23												
24												

Watchkeeper(s): SR

Bottom Depth: 1277 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	0511	2211
Bottom	0537	
End	0619	

Positional Information

Start
 Lat: 50 ° 0.04 N
 Lon: 128 ° 0.02 W

Bottom
 Lat: 50 ° 0.02 N
 Lon: 128 ° 0.08 W

End
 Lat: 50 ° 0.646 N
 Lon: 128 ° 0.667 W

Oxygen Info For This Cast

Blank Value: .0020 mL · L⁻¹

Std Value: .7117 mL · L⁻¹

*Date Run: 18 | 09 | 2010

Analyst: CF

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-69 Station: LBP7 Event #: 11 Ship: Tulley UTC Date (dd|mmm|yyyy): 19 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken						Comments		
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄				
1	104	557	1.563	B-10	✓ 2212									Forgot to flush
2	105	1420	1.301	2000	✓									
3	106	1380	1.149	1500	✓									
4	107	3187	0.250	1500	←									bottle 23 is the 1200 m sample @ 1500 m by accident
5	108	622	0.225	1000										1200 m bottle to be in Niskin # 23
6	109	1472	0.203	800										
7	110	1316	0.350	600										
8	111	²⁰⁵⁵ 3043	0.533	500										0.426 → ouch!
9	112	3124	0.824	400										
10	113	2073	1.289	300										
11	114	1174	1.685	250										
12	115	1492	2.385	200										
13	116	3084	—	175										Hit "Run Sample" x2 Fixed in new release
14	117	2019	0.815	150										
15	118	3180	3.026	125										
16	119	1367	3.211	100										
17	120	2082 352	3.562	75										3.565
18	121	668	3.565	50										
19	122	715	4.503	30										
20	123	1389	5.255	20										
21	124	2051	5.892	10										
22	125	1312	6.061	SURF										@ 1200 m
23														
24														

Watchkeeper(s): SR

Bottom Depth: 2190 m

Transmisso Cleaned: Y / (N)

→ These are all bad!

Time	UTC	Local
Start	0826	
Bottom	0904	0204
End	1003	

Positional Information

Start
 Lat: 49 ° 52.40 N
 Lon: 128 ° 11.11 W

Bottom
 Lat: 49 ° 52.41 N
 Lon: 128 ° 11.11 W

End
 Lat: 49 ° 52.42 N
 Lon: 128 ° 11.11 W

Oxygen Info For This Cast

Blank Value: 0.020 mL · L⁻¹

Std Value: 0.7117 mL · L⁻¹

*Date Run: 19 SEP 2010

Analyst: SR

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-69

Station: EFO2

Event #: 22

Ship: Tully

UTC Date (dd|mmm|yyyy): 21|09|2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken						Comments				
		Flask Serial #	Value mL·L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄						
1	126	2056	0.811	B-2	65	4										
2	127	3194	0.862	50	50	1										
3	128	2075	1.847	30	29.9											
4	129	3178	2.335	20	20.2											
5	130	1201	3.863	10	10.5											
6	131	1414	5.098	5	5.3	1										
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): Lucas + Josh

Bottom Depth: 71.6 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1801	1101
Bottom	1803	1103
End	1812	1112

Positional Information
 Start
 Lat: 49° 5.015 N
 Lon: 125° 10.276 W

Bottom
 Lat: 49° 5.026 N
 Lon: 125° 10.272 W

End
 Lat: 49° 5.028 N
 Lon: 125° 10.308 W

Oxygen Info For This Cast
 Blank Value: 0.0037 mL·L⁻¹
 Std Value: 0.7132 mL·L⁻¹
 *Date Run: 22|09|10
 Analyst: NZ

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-69

Station: EFO3

Event #: 23

Ship: Tully

UTC Date (dd|mmm|yyyy): 21 | 09 | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken							Comments			
		Flask Serial #	Value mL·L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄						
1	132	1327	0	β-2	112											Anoxic
2	133	2000	0	100	99.6											
3	134	1326	0	75	74.7											
4	135	1570	1.437	50	50.2											some precipitate
5	136	1460	2.518	30	30.5											
6	137	2060	2.713	20	20.5											
7	138	3135	3.843	10	10.4											
8	139	1459	4.638	(9) 5	5.1											
9																
10																
11	134	1335	0	75												Anoxic
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): Lucius + Josh

Bottom Depth: 121 m

Transmisso Cleaned: Y / N

check endpoint. grab cap.

Time	UTC	Local
Start	1832	
Bottom	1836	
End	1845	

Positional Information

Start Lat: 49° 9.243 N
Lon: 125° 9.402 W

Bottom Lat: 49° 4.243 N
Lon: 125° 9.401 W

End Lat: 49° 9.243 N
Lon: 125° 9.415 W

Oxygen Info For This Cast

Blank Value: 0.0037 mL·L⁻¹
Std Value: 0.7132 mL·L⁻¹
*Date Run: 22 | 09 | 10
Analyst: ML

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-69

Station: EFO4

Event #: 24

Ship: Tully

UTC Date (dd|mmm|yyyy): 21 | 08 | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken					Comments	
		Flask Serial #	Value mL·L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄		
1	140	612	2.312	B-5	55							
2	141	3116	2.135	30	30							
3	142	3164	2.224	20	20							
4	143	3118	2.837	10	10							
5	144	3107	6.209	0	1.3							
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Watchkeeper(s): Lucius + Josh

Bottom Depth: 62 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1944	
Bottom	1952	
End	1956	

Positional Information

Start
 Lat: 49° 3.118 N
 Lon: 125° 8.597 W

Bottom
 Lat: 49° 3.124 N
 Lon: 125° 8.593 W

End
 Lat: 49° 3.124 N
 Lon: 125° 8.590 W

Oxygen Info For This Cast

Blank Value: 0.0037 mL·L⁻¹
 Std Value: 0.7132 mL·L⁻¹
 *Date Run: 22 | 09 | 10
 Analyst: Walt

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-69 Station: EFO5 Event #: 25 Ship: Tully UTC Date (dd|mmm|yyyy): | |

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken						Comments			
		Flask Serial #	Value mL·L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄					
1	145	3061	1.570	155	189										
2	146	1260	1.583	175	175										
3	147	1302	1.544	150	150										
4	148	1386	1.517	125	125										precipitate in cap
5	149	3187	1.398	100	100										
6	150	3043	0.837	75	75			X							
7	151	3124	1.931	50	50										precipitate in cap
8	152	1174	2.938	30	30										
9	153	2073	3.099	20	20										precipitate in cap
10	154	657	3.306	10	10										" " "
11	155	2082	6.554	0	0										" " "
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	20:16	
Bottom	20:21	
End	20:34	

Positional Information
 Start
 Lat: 49 ° 2.555 N
 Lon: 125 ° 9.175 W

Bottom
 Lat: 49 ° 2.549 N
 Lon: 125 ° 9.167 W

End
 Lat: 49 ° 2.544 N
 Lon: 125 ° 9.152 W

Oxygen Info For This Cast
 Blank Value: 1.0037 mL·L⁻¹
 Std Value: .7132 mL·L⁻¹
 *Date Run: 22|09|10
 Analyst: MAH

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010 68

Station: EFOG

Event #: 26

Ship: Tully

UTC Date (dd|mmm|yyyy): 21 | 09 | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken						Comments			
		Flask Serial #	Value mL·L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄					
1	156	1477	1.164	B-5	✓ 145										5 mab
2	157	1470	1.484	125	✓ 125										bad curve
3	158	557	1.416	100	✓ 100										
4	159	622	1.178	75	✓ 75			X							
5	160	1498	2.329	50	✓ 50										
6	161	2055	2.922	30	✓ 30										
7	162	2019	2.800	20	✓ 20										
8	163	3084	3.005	10	✓ 10										- chunky ppt
9	164	3180	5.505	0	✓ 1										not well shaken?
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): _____

Bottom Depth: 149 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start
 Lat: ° N
 Lon: ° W

Bottom
 Lat: ° N
 Lon: ° W

End
 Lat: ° N
 Lon: ° W

Oxygen Info For This Cast

Blank Value: 0.0037 mL·L⁻¹

Std Value: 0.7132 mL·L⁻¹

*Date Run: 22 | 09 | 10

Analyst: N2

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-09

Station: EFO7

Event #: 27

Ship: Tully

UTC Date (dd|mmm|yyyy): 21 | 09 | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken					Comments	
		Flask Serial #	Value mL·L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄		
1	165	1367	0.841	B-5	115							
2	166	1316	0.933	100	100							
3	167	668	0.856	75	75			X				chunky ppt, not well shaken
4	168	715	1.404	50	50							" " ppt stuck
5	169	1389	2.238	30	30							under stopper
6	170	2051	2.453	20	20							" " "
7	171	1312	2.502	10	10							" " "
8	172	437	5.916	0	0			0.959				- BIG bubble
9												no water on stopper
10												stopper
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Watchkeeper(s): Lucas + Josh

Bottom Depth: 119 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2121	
Bottom	2126	
End	2135	

Positional Information

Start
 Lat: 49° 12' 48" N
 Lon: 125° 9' 39.7" W

Bottom
 Lat: 49° 1' 24.8" N
 Lon: 125° 9' 38.5" W

End
 Lat: 49° 1' 22.5" N
 Lon: 125° 9' 41.8" W

Oxygen Info For This Cast

Blank Value: 0.0037 mL·L⁻¹

Std Value: 0.7132 mL·L⁻¹

*Date Run: 22 | 09 | 10

Analyst: NZ

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-69 Station: EF08 Event #: 23 Ship: Tully UTC Date (dd|mmm|yyyy): | |

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken					Comments	
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄		
1	173	1490	1.074	B-5	80							all samples chunky ppt also stuck under stopper likely not double shaken
2	174	1149	0.913	75	75		X					
3	175	3181	1.465	50	50							
4	176	1407	1.948	30	30							
5	177	1321	2.313	20	20							
6	178	1180	3.531	10	10							
7	179	1481	6.347	0	0							
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Watchkeeper(s): Lucius + Josh

Bottom Depth: 87 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2149	
Bottom	2153	
End	2200	

Positional Information
 Start
 Lat: 49° 0.665 N
 Lon: 125° 10.231 W

Bottom
 Lat: 49° 0.667 N
 Lon: 125° 10.225 W

End
 Lat: 49° 0.660 N
 Lon: 125° 10.256 W

Oxygen Info For This Cast
 Blank Value: 0.0037 mL · L⁻¹
 Std Value: 0.7132 mL · L⁻¹
 *Date Run: 22 09 10
 Analyst: N²

*Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-69

Station: EFO9

Event #: 29

Ship: Tull

UTC Date (dd|mmm|yyyy): 21 | 09 | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken							Comments					
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄								
1	180	2084	1.274	B-5	55													- same chunky
2	181	1476	1.248	50	50													issue, see
3	182	1365	3.289	30	30													last cast
4	183	2086	2.551	20	20													
5	184	1387	4.040	10	10													
6	185	1406	5.924	0														
7																		
8																		
9																		
10																		
11																		
12																		
13																		
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20																		
21																		
22																		
23																		
24																		

Watchkeeper(s): Josh + Lucius

Bottom Depth: 62 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2217	
Bottom	2220	
End	2226	

Positional Information

Start
 Lat: 49° 0.107 N
 Lon: 125° 10.846 W

Bottom
 Lat: 49° 0.104 N
 Lon: 125° 10.844 W

End
 Lat: 49° 0.101 N
 Lon: 125° 10.838 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: ____ | ____ | ____

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-69

Station: EP10

Event #: 30

Ship: Tully

UTC Date (dd|mmm|yyyy): 21 | 09 | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken						Comments		
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄				
1	186	638	1.738	B-5	90									
2	187	2033	1.778	75	75									
3	188	1411	1.794	50	50									
4	189	1464	2.618	30	30									
5	190	1123	3.454	20	20									
6	191	2065	3.182	10	10									
7	192	3207	6.048	0										
8														
9														
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20														
21														
22														
23														
24														

Watchkeeper(s): Lucius + Josh

Bottom Depth: 100 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2242	
Bottom	2245	
End	2252	

Positional Information

Start

Lat: 48° 59.349 N

Lon: 125° 11.240 W

Bottom

Lat: 48° 59.345 N

Lon: 125° 11.239 W

End

Lat: 48° 59.821 N

Lon: 125° 11.221 W

Oxygen Info For This Cast

Blank Value: 0.0037 mL

Std Value: 0.7132 mL · L⁻¹

*Date Run: 22 | 09 | 10

Analyst: N2

*Oxygen blanks and standards should be run daily, if possible