

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28

Station: BG-6

Event #: 6 (bot file says 5)

Ship: JOHN P TULLY

UTC Date (dd|mmm|yyyy): 28 | APR | 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			270	✓		✓	✓						
2	2			250	✓		✓							
3	3			200	✓		✓							
4	4			175	✓		✓							
5	5			150	✓		✓							
6	6			125	✓		✓							
7	7			100	✓		✓							
8	8			80	✓		✓							
9	9			60	✓		✓							
10	10			50	✓		✓							
11	11			40	✓		✓							
12	12			35	✓		✓							
13	13			30	✓		✓							
14	14			25	✓		✓							
15	15			20	✓		✓							
16	16			15	✓		✓							
17	17			10	✓		✓	✓						
18	18			5	✓		✓							
19	19			0	✓		✓							
20	20													
21	21													
22	22													
23	/	/		1505 in place										
24	/	/												

Watchkeeper(s): SE/CS/JS

Bottom Depth: 277 m

Transmisso Cleaned: Y / (N)

	UTC	Local
Time Start	0250	
Bottom	0312	
End	0334	

Positional Information

Start
 Lat: 49 ° 35.91 N
 Lon: 124 ° 27.60 W

Bottom
 Lat: 49 ° 35.89 N
 Lon: 124 ° 27.62 W

End
 Lat: 49 ° 35.83 N
 Lon: 124 ° 27.62 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

1505 calibration cast - samples analysed for Nitrate + Nitrite only.

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28 Station: SutChan 2 Event #: 10 Ship: JP Tully UTC Date (dd|mmm|yyyy): 29 | 04 | 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	20	3126	3.231	300	247	✓		✓						
2	21	3180	3.396	200	200	✓✓		✓						
3	22	2059	3.721	175	175	✓								leaky at bottom
4	23	2049	3.938	150	150	✓								o-ring
5	24	/	/	125	125	✓								no water
6	25	3067	4.107	100	100	✓								
7	26	3201	4.256	75	75	✓✓								
8	27	2085	4.940	50	50	✓								
9	28	2061	*	30	30	✓								Used 1128 mL TH10.
10	29	3113	6.542	20	20	✓								
11	30	3047	7.381	10	10	✓		✓						
12	31	2047	7.963	0		✓								
13														
14	21	3199	3.369											
15	26	3196	4.256											
16														
17														
18														
19														
20														
21														
22														
23														
24														

Duplicate Appendix

Watchkeeper(s): SM/HM

Bottom Depth: 253 m

Transmisso Cleaned: Y / N

	UTC	Local
Time Start	0855	
Bottom	0902	
End	0918	

Positional Information
 Start
 Lat: 50 ° 4.390 N
 Lon: 125 ° 7.536 W

Bottom
 Lat: 50 ° 4.414 N
 Lon: 125 ° 7.466 W

End
 Lat: 50 ° 4.444 N
 Lon: 125 ° 7.398 W

Oxygen Info For This Cast
 Blank Value: 0.003 mL · L⁻¹
 Std Value: 0.7147 mL · L⁻¹
 *Date Run: 29 | 04 | 2010
 Analyst: CS

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

OL - Grey Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28 Station: PA 2 Event #: 12 Ship: TULLY UTC Date (dd|mmm|yyyy): 30 | APR | 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	32	3126	5.733	B-10	✓ 91	✓		✓					- BUBBLES
2	33	3180	5.681	75	✓								
3	34	3199		50	✓	✓							- 34 aborted - colorimeter problems
4	35	2049	5.607	25	✓								
5	36	3019	5.627	10	✓			✓					
6	37	3067	5.797	0	✓	✓							
7													
8	34	2059	2.924										+ 13.0mL DOSE CODSIMAT CRAZY
9													
10													
11													
12													
13													
14	00	2017											TESTER CODSIMAT MATING CRAZY
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													

DUP

Watchkeeper(s): JE/CS/JS

Bottom Depth: 100 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0349	
Bottom	0355	
End	0402	

Positional Information
 Start
 Lat: 50 ° 29.06 N
 Lon: 125 ° 22.06 W

Bottom
 Lat: 50 ° 29.03 N
 Lon: 125 ° 22.09 W

End
 Lat: 50 ° 29.03 N
 Lon: 125 ° 22.09 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

O₂ Grey Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28 Station: FE ARM 2 Event #: 14 Ship: TOLLY UTC Date (dd|mmm|yyyy): 30 | 04 | 10

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	38	3201	5.696	B-10	✓ 300	✓		✓				
2	39	3190	5.574	250	✓ 250			✓				
3	40	2885	5.375	200	✓ 200							
4	41	2061	5.400	175	✓ 175							
5	42	3113	5.349	150	✓ 150							
6	43	3047	5.414	125	✓ 125							
7	44	2047	5.286	100	✓ 100	✗						leak - top cap did not seat
8	45	2068	5.316	75	✓ 75	✓						
9	46	3151	5.345	50	✓ 50							
10	47	3121	5.265	25	✓ 25							
11	48	3198	5.509	10	✓							
12	49	3161	5.628	0	✓							
13												
14	45	3090	5.297	75								
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Rpl

Watchkeeper(s):
4.m/cw / S.E.

Bottom Depth: 307 m

Transmisso Cleaned: Y / N

	Time	UTC	Local
Start		0555	
Bottom		0601	
End		0617	

Positional Information

Start

Lat: 50 ° 27.16 N

Lon: 125 ° 17.06 W

Bottom

Lat: 50 ° 27.16 N

Lon: 125 ° 17.05 W

End

Lat: 50 ° 27.16 N

Lon: 125 ° 17.01 W

Oxygen Info For This Cast

Blank Value: 0.003 mL · L⁻¹

Std Value: 0 mL · L⁻¹

*Date Run: 26 APR 2010

Analyst: CS

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

O₂ Cuvet Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28 Station: NoChan Event #: 15 Ship: TULLY UTC Date (dd|mmm|yyyy): 30 | APR | 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	50	3067	5.806	80-10	/ 203	✓								
2	51	2069	5.779	175	/ 175	✓								
3	52	1464	5.778	150	/ 150	✓✓								
4	53	3166	3.822	125	/ 125	✓		*						
5	54	1478	5.725	100	/ 100	✓								
6	55	2064	5.691	75	/ 75	✓								
7	56	3009	5.645	50	/ 50	✓								
8	57	1497	5.579	25	/ 25	✓								
9	58	3038	5.680	10	/ 10	✓✓								
10	59	3174	5.946	0	/ 1	✓								
11														
12														
13														
314	52	3191	5.763	150										
15														
918	58	3204	5.676	10										
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): CS/JE/JS

Bottom Depth: 211 m
 Transmisso Cleaned: Y/N

Time	UTC	Local
Start	0730	
Bottom	0738	
End	0752	

Positional Information
 Start
 Lat: 50 ° 22.234 N
 Lon: 125 ° 21.091 W

Bottom
 Lat: 50 ° 22.235 N
 Lon: 125 ° 21.102 W

End
 Lat: 50 ° 22.226 N
 Lon: 125 ° 21.047 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

O₂ RUN BY HUGH

O₂ Brown Box

Water Properties Group

Rosette Log

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

Cruise ID: _____ Station: Ka Bay Event #: 17 16 Ship: Tully UTC Date (dd|mmm|yyyy): 30 | APR | 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	60	2051	*	30-10	✓ 234	✓									MIS FIRE
2	61	3203	5.668	200	✓										
3	62	3040	5.669	175	✓										
4	63	2032	5.661	150	✓	✓									
5	64	3098	5.666	125	✓										
6	65	3057	5.660	100	✓										
7	66	2035	5.675	75	✓										
8	67	3109	5.653	50	✓										
9	68	1492	5.655	25	✓										
10	69	3171	5.627	10											
11	70	3052	5.639	0		✓									
12															
13															
14															
15	63	3055	5.661	150											
16															
17															
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): HM/C.W/S.R.

Bottom Depth: 250 m

Transmisso Cleaned: (Y) N

	UTC	Local
Time Start	0913	
Bottom	0921	
End	0930	

Positional Information

Start Lat: 50 ° 15.61 N
 Lon: 125 ° 23.05 W

Bottom Lat: 50 ° 15.63 N
 Lon: 125 ° 23.06 W

End Lat: 50 ° 15.67 N
 Lon: 125 ° 23.07 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

O₂ RUN BY HUGA

O₂ Brown Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28 Station: L301 Event #: 17 Ship: Tully UTC Date (dd|mmm|yyyy): 2 | 5 | 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	71	94	5.483	6-10	25	1						
2	72	745	6.160	10	10	2						
3	73	1298	6.462	0	3	1						
4												
5	72	1247	6.090	10								
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Watchkeeper(s): HM/CW/SR

Bottom Depth: 33 m

Transmisso Cleaned: (Y) / N

	UTC	Local
Time Start	0044	
Bottom	0050	
End	0052	

Positional Information
 Start
 Lat: 49 ° 40.358 N
 Lon: 124 ° 57.422 W

Bottom
 Lat: 49 ° 40.358 N
 Lon: 124 ° 55.376 W

End
 Lat: 49 ° 40.343 N
 Lon: 124 ° 55.338 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

ANALYSIS BY HUGH

02 - Baby Blue Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28

Station: LB2

Event #: 18

Ship: Tully

UTC Date (dd|mmm|yyyy): 2 | 5 | 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	74	1300	4.926	5-10	✓ 49	1						
2	75	1307	5.286	30	✓ 30	2						
3	76	1330	5.614	20	✓ 20	1						
4	77	1338	6.100	10	✓ 10							
5	78	1392	6.773	0	✓ 1							
6												
7												
8	75	1318	5.282	30								
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Watchkeeper(s): Hugh / CW / SR

Bottom Depth: 50 m

Transmissio Cleaned: Y / N

	UTC	Local
Time Start	<u>042</u>	
Bottom	<u>0146</u>	
End	<u>0150</u>	

Positional Information
 Start
 Lat: 48 ° 39.037 N
 Lon: 125 ° 2.110 W

Bottom
 Lat: 48 ° 39.007 N
 Lon: 125 ° 2.046 W

End
 Lat: 48 ° 39.017 N
 Lon: 125 ° 2.030 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

ANALYSIS BY HUGH

O2 - Baby Blue Box

Water Properties Group

Rosette Log

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

Cruise ID: 201026

Station: LB4

Event #: 20

Ship: Tully

UTC Date (dd|mmm|yyyy): 2 | 5 | 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	79	1395	3.394	6-10	✓ 101									
2	80	1397	4.426	75	✓									
3	81	1408	4.731	50	✓	2								
4	82	1488	5.169	30	✓	1								
5	83	3033	6.189	20	✓									
6	84	708	6.767	10	✓			✓						
7	85	1322	6.788	0	✓									
8														
9														
10	81	1421	4.740	50										
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): JE/CS/JS

Bottom Depth: 111 m

Transmisso Cleaned: Y / N

	UTC	Local
Time Start	0340	
Bottom	0345	
End	0353	

Positional Information

Start
 Lat: 48 ° 35.64 N
 Lon: 125 ° 08.68 W

Bottom
 Lat: 48 ° 35.60 N
 Lon: 125 ° 08.65 W

End
 Lat: 48 ° 35.56 N
 Lon: 125 ° 08.79 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

ANALYSIS BY HUGH

O2 - Baby Blue Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28

Station: EFF16

Event #: 22

Ship: TULLY

UTC Date (dd|mmm|yyyy): 03 | MAY | 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	86	2065	4.77	5-10	✓ 98											
2	87	1317	5.069	75	✓											
3	88	3207	5.674	50	✓											
4	89	3184	5.672	30	✓											
5	90	3069	5.769	20	✓	2										
6	91	3124	6.395	10	✓	1										
7	92	1485	6.837	0	✓	1										
8																
9																
10	90	3108	5.789	20												
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Dupl

Watchkeeper(s):
JEICS / JS

Bottom Depth: 108 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0423	
Bottom	0430	
End	0437	

Positional Information

Start

Lat: 48 ° 47.60 N

Lon: 125 ° 15.91 W

Bottom

Lat: 48 ° 47.64 N

Lon: 125 ° 15.91 W

End

Lat: 48 ° 47.68 N

Lon: 125 ° 15.93 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

O2 - Scan/et Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28

Station: EFF15

Event #: 23

Ship: TULLY

UTC Date (dd|mmm|yyyy): 03 | MAY | 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	93	2040	5.073	5-10	✓ 85												
2	94	2073	5.411	75	✓												
3	95	2082	5.606	50	✓												
4	96	3043	5.614	30	✓												
5	97	2015	5.659	20	✓												
6	98	1409	6.608	10	✓												
7	99	690	6.974	0	✓												
8																	
9																	
10	96	2055	5.614	30													
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): JE/CS/JS

Bottom Depth: 97 m

Transmisso Cleaned: Y N

	UTC	Local
Start	0543	
Bottom	0551	
End	0559	

Positional Information

Start

Lat: 48 ° 51.37 N

Lon: 125 ° 14.94 W

Bottom

Lat: 48 ° 51.37 N

Lon: 125 ° 14.91 W

End

Lat: 48 ° 51.33 N

Lon: 125 ° 14.72 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

ANALYSIS - HUGH

02-Scarlet Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28 Station: EFF14 Event #: 24 Ship: TULLY UTC Date (dd|mmm|yyyy): 3 | 5 | 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	100	2019	4.887	30-5	✓ 100	✓										
2	101	2027	5.536	75	✓ 75	↓										
3	102	3192	5.630	50	✓ 50	↓										
4	103	1492	5.646	30	✓ 30	↓										
5	104	2088	5.896	20	✓ 20	↓										
6	105	3160	7.236	10	✓ 10	↓										
7	106	1389	7.342	0	✓ 0	↓										
8																
9																
10	103	1393	5.625	30												
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): JM / CW / SR

Bottom Depth: 109 m
 Transmisso Cleaned: Y / N

	UTC	Local
Time Start	0703	
Bottom	0709	
End	0716	

Positional Information
 Start
 Lat: 48 ° 53.998 N
 Lon: 125 ° 12.554 W

Bottom
 Lat: 48 ° 53.998 N
 Lon: 125 ° 12.947 W

End
 Lat: 48 ° 53.950 N
 Lon: 125 ° 12.959 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

ANALYSIS - HUGH

O₂ - Red Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28 Station: EFF13 Event #: 25 Ship: TULLY UTC Date (dd|mmm|yyyy): 3 | 5 | 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	107	3126	5.276	30	✓ 96			X						
2	108	3180	5.530	75	✓ 25									
3	109	3199	5.691	50	✓ 50									
4	110	2059	5.142	30	✓ 30									
5	111	2049	6.050	20	✓ 20									
6	112	3019	5.916	10	✓ 10	2								
7	113	3201	7.367	0	✓ 1	1								
8														
9														
10	112	3067	5.914	10										
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): Am / CW / SA

Bottom Depth: 106 m

Transmisso Cleaned: Y / N

	UTC	Local
Start	0743	
Bottom	0747	
End		

Positional Information
 Start
 Lat: 48 ° 56.576 N
 Lon: 125 ° 10.667 W

Bottom
 Lat: 48 ° 56.501 N
 Lon: 125 ° 10.664 W

End
 Lat: 48 ° 56.505 N
 Lon: 125 ° 10.702 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

ANALYSIS - HUGH

O₂ Grey Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28

Station: EFF-12

Event #: 26

Ship: TULLY

UTC Date (dd|mmm|yyyy): 3 | 5 | 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	114	3190	5.215	80-10	90	1		X				
2	115	2085	5.421	75	75	2						
3	116	3113	5.463	50	50	1						
4	117	3047	5.030	30	30	1						
5	118	2047	5.299	20	20	1						
6	119	3090	5.444	10	10	1						
7	120	2063	6.957	0	1	1						
8												
9												
10												
11	115	2061	5.430	75								
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Watchkeeper(s): HML CWLSE

Bottom Depth: 99 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0821	
Bottom	0825	
End	0832	

Positional Information

Start
 Lat: 48 ° 57.970 N
 Lon: 125 ° 10.441 W

Bottom
 Lat: 48 ° 57.958 N
 Lon: 125 ° 10.432 W

End
 Lat: 48 ° 57.948 N
 Lon: 125 ° 10.429 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

ANALYSIS - HUGH

O₂ Grey Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28 Station: EFF01 Event #: 28 Ship: Tully UTC Date (dd|mmm|yyyy): 03 | MAY | 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	121	3126	2.646	8.5	29	✓								
2	122	3180	0	20	20	✓								see log
3	123	2059	2.488	10	10	✓								
4	124	2049	8.261	0	1	✓								
5														
6														
7	123	3199	2.553	20										
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): AM/cw/sn

Bottom Depth: 35 m

Transmisso Cleaned: / N

	UTC	Local
Start	0054	
Bottom	0057	
End	0101	

Positional Information

Start
 Lat: 49 ° 5.579 N
 Lon: 125 ° 11.669 W

Bottom
 Lat: 49 ° 5.578 N
 Lon: 125 ° 11.654 W

End
 Lat: 49 ° 5.563 N
 Lon: 125 ° 11.644 W

Oxygen Info For This Cast

Blank Value: 0.0013 mL · L⁻¹

Std Value: 0.713 mL · L⁻¹

*Date Run: 04 105 1 10

Analyst: CW

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

O₂ Grey Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28 Station: EFF 02 Event #: 29 Ship: TULLY UTC Date (dd|mmm|yyyy): 4 | 5 | 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	125	3019	0.675	30-5	✓ 63	✓							please check end pt
2	126	3067	2.658	50	✓ 50	✓							
3	127	3201	3.305	30	✓ 50	✓							
4	128	3190	3.359	20	✓ 20	✓✓							check end pt
5	129	2061	3.417	10	✓ 10	✓							
6	130	3113	8.081	0	✓ 1	✓							
7													
8													
9													
4	10 128	2085	3.537	20									
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													

Watchkeeper(s): Am / CW / SR

Bottom Depth: 72 m
Transmissio Cleaned: Y / N

	UTC	Local
Time Start	0136	
Bottom	0140	
End	0146	

Positional Information
Start
Lat: 49 ° 5.009 N
Lon: 125 ° 10.318 W

Bottom
Lat: 49 ° 5.010 N
Lon: 125 ° 10.319 W

End
Lat: 49 ° 5.010 N
Lon: 125 ° 10.325 W

Oxygen Info For This Cast
Blank Value: 0.0013 mL · L⁻¹
Std Value: 0.7103 mL · L⁻¹
*Date Run: 4 | 5 | 10
Analyst: CW

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

O₂ Grey Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28 Station: EFF03 Event #: 30 Ship: Tulley UTC Date (dd|mmm|yyyy): 4 | 5 | 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	131	3047	0.021	30-5	112	✓									
2	132	2047	0.014	100	100	✓									
3	133	3070	0.009	75	75	✓									
4	134	2068	2.118	50	50	✓									
5	135	3151	3.547	30	30	✓									
6	136	3198	3.839	20	20	✓✓									
7	137	3161	4.742	10	10	✓									
8	138	2020	8.019	0	1	✓									
9															
DUP 10	136	3121	3.820	20											
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): CW / Am / SR

Bottom Depth: 115 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0202	
Bottom	0203	
End	0217	

Positional Information

Start

Lat: 49 ° 4.261 N

Lon: 125 ° 9.403 W

Bottom

Lat: 49 ° 4.261 N

Lon: 125 ° 9.394 W

End

Lat: 49 ° 4.248 N

Lon: 125 ° 9.415 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

O₂ Grey Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28 Station: EFF04 Event #: 31 Ship: TULLY UTC Date (dd|mmm|yyyy): 04 | MAY | 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	139	1317	3.967	30-5	✓ 56	✓						RAW AS 138 *
2	140	3207	3.819	30	✓	✓						
3	141	3184	4.017	20	✓	✓						
4	142	3069	4.428	10	✓	✓						
5	143	3108	1.850	0	✓	✓						
6												
7	139	2065	4.150		56							
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Watchkeeper(s): JE/CS/JS

Bottom Depth: 60 m

Transmisso Cleaned: Y N

Time	UTC	Local
Start	0308	
Bottom	0312	
End	0317	

Positional Information

Start
 Lat: 49 ° 03.11 N
 Lon: 125 ° 08.60 W

Bottom
 Lat: 49 ° 03.11 N
 Lon: 125 ° 08.57 W

End
 Lat: 49 ° 03.10 N
 Lon: 125 ° 08.56 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

O₂ Red Box

24

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28 Station: EFF05 Event #: 32 Ship: TULLY UTC Date (dd|mmm|yyyy): 04 | MAY | 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	144	3124	0.175	30-5	✓ 194	1								
2	145	1485	0.021	175	✓			X						
3	146	2040	0.079	150	✓	2								
4	147	2062	0.064	125	✓	1								
5	148	3043	0.177	100	✓									
6	149	2055	4.152	75	✓									
7	150	2015	4.354	50	✓									
8	151	1489	3.763	30	✓									
9	152	690	4.322	20	✓									
10	153	2019	4.594	10	✓									
11	154	2027	7.641	0	✓									
12														
13	147	2073	0.060	150										
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): JE/ES/JS

Bottom Depth: 207 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0335	
Bottom	0343	
End	0355	

Positional Information

Start

Lat: 49 ° 02.56 N

Lon: 125 ° 09.12 W

Bottom

Lat: 49 ° 02.55 N

Lon: 125 ° 09.13 W

End

Lat: 49 ° 02.54 N

Lon: 125 ° 09.14 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

apr

O₂ Red Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28

Station: EFF 06

Event #: 33

Ship: TULLY

UTC Date (dd|mmm|yyyy): 04 | MAY | 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	155	3007	0.077	B ₀ -5	✓ 140										* PAN AS 154
2	156	2609	0.042	125	✓			X							
3	157	1464	0.083	100	✓										
4	158	3191	4.275	75	✓										
5	159	3166	4.534	50	✓										
6	160	1478	4.034	30	✓										
7	161	2004	4.401	20	✓						2				
8	162	1497	4.601	10	✓						1				
9	163	/	/	0	X										target to trip.
10															
DWP 11	161	3009	4.415	20											
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): SS/SE

Bottom Depth: 150 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0416	
Bottom	0426	
End	0430	

Positional Information

Start

Lat: 49 ° 01.77 N

Lon: 125 ° 09.17 W

Bottom

Lat: 49 ° 01.76 N

Lon: 125 ° 09.16 W

End

Lat: 49 ° 01.74 N

Lon: 125 ° 09.16 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

O₂ Brown Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28

Station: EFF07

Event #: 34

Ship: Tully

UTC Date (dd|mmm|yyyy): 04 | MAY | 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	164	3201	0.137	80-5	✓ 110									
2	165	3174	0.139	100	✓									
3	166	2051	4.535	75	✓									
4	167	3203	1	50	✓	2								
5	168	2032	4.375	30	✓									FORGET TO WRITE DOWN CO ₂
6	169	3055	4.713	20	✓									
7	170	3058	5.420	10	✓									
8	171	3057	7.442	0										
9														
10	167	3010	4.634	50										
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): SEISS

Bottom Depth: 120 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0453	
Bottom	0458	
End	0506	

Positional Information
 Start
 Lat: 49 ° 01.24 N
 Lon: 125 ° 09.39 W

Bottom
 Lat: 49 ° 01.21 N
 Lon: 125 ° 09.40 W

End
 Lat: 49 ° 01.19 N
 Lon: 125 ° 09.48 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

O₂ Brown Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28 Station: EFF08 Event #: 35 Ship: Tully UTC Date (dd|mmm|yyyy): 04 | MAY | 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	172	94	5.019	B ₅ -5	✓ 75	2								
2	173	1247	4.814	50	✓									
3	174	1298	4.620	30	✓									
4	175	1300	4.727	20	✓									
5	176	1327	5.661	10	✓									
6	177	1318	7.381	6	✓									
7														
DUP	172	745	5.014		75									
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): SC/SS

Bottom Depth: 87 m

Transmissio Cleaned: Y / N

	UTC	Local
Time Start	0526	
Bottom	0530	
End	0536	

Positional Information
 Start
 Lat: 49 ° 00.66 N
 Lon: 125 ° 10.24 W

Bottom
 Lat: 49 ° 00.65 N
 Lon: 125 ° 10.29 W

End
 Lat: 49 ° 00.66 N
 Lon: 125 ° 10.31 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

Blue Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28

Station: EFF09

Event #: 36

Ship: TULLY

UTC Date (dd|mmm|yyyy): 04 | MAY | 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	178	1330	4.917	B ₂ -5	✓ 53							
2	179	1338	4.707	30	✓							
3	180	1392	4.833	20	✓							
4	181	1395	5.575	10	✓	2						
5	182	1408	7.306	0	✓	1						
6												
7												
4	181	1397	5.609	10								
9												
10												
11												
12												
13												
14												
15	DMD on top had evaporated.											
16												
17												
18												
19												
20												
21												
22												
23												
24												

Watchkeeper(s): JE/SS

Bottom Depth: 60 m

Transmisso Cleaned: Y N

	UTC	Local
Start	0556	
Bottom	0600	
End	0604	

Positional Information

Start
 Lat: 49 ° 00.11 N
 Lon: 125 ° 10.85 W

Bottom
 Lat: 49 ° 00.10 N
 Lon: 125 ° 10.87 W

End
 Lat: 49 ° 00.10 N
 Lon: 125 ° 10.88 W

Oxygen Info For This Cast

Blank Value: 0.0013 mL · L⁻¹
 Std Value: 0.7103 mL · L⁻¹
 *Date Run: 4 | 5 | 10
 Analyst: CW

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

Blue Box

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28

Station: EFF10

Event #: 37

Ship: TULLY

UTC Date (dd|mmm|yyyy): 04 | May | 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	183	1421	5.344	0-5	✓ 90											
2	184	1488	5.390	75	✓			✓								
3	185	3033	—	50	✓											air valve left open -
4	186	708	4.714	30	✓	✓										not sampled
5	187	3016	4.919	20	✓											
6	188	1312	6.720	10	✓											
7	189	471	7.403	0	✓											slow spigot leak
8																
9																
4	180	1322	4.698	30												
11																
12																
13																
14																
15																
16				DMQ on top had evaporated.												
17				181 - please check enolpt												
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): JE/JS

Bottom Depth: 93 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0619	
Bottom	0623	
End	0630	

Positional Information
 Start
 Lat: 48 ° 59.85 N
 Lon: 125 ° 11.24 W

Bottom
 Lat: 48 ° 59.84 N
 Lon: 125 ° 11.25 W

End
 Lat: 48 ° 59.81 N
 Lon: 125 ° 11.22 W

Oxygen Info For This Cast
 Blank Value: 0.0013 mL · L⁻¹
 Std Value: 0.713 mL · L⁻¹
 *Date Run: 04 | 05 | 10
 Analyst: CW

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

Blue Boy

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28

Station: EFF-11

Event #: 38

Ship: TULLY

UTC Date (dd|mmm|yyyy): 04 | May | 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	190	3126	5.565	50-5	✓	1						} no DMQ on surface of flask.
2	191	3150	5.497	50	✓							
3	192	2059	4.861	30	✓							
4	193	2049	5.078	20	✓	2						
5	194	3067	5.761	10	✓	1						
6	195	3201	7.115	0								
7												
8												
4	193	3019	5.022	20								
10												
11												
12												
13												
14												
15												
16												
17												
18	See log - sample 192											
19												
20												
21												
22												
23												
24												

Watchkeeper(s): JE/JS

Bottom Depth: 85 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0655	
Bottom	0700	
End	0706	

Positional Information

Start
 Lat: 48 ° 59.11 N
 Lon: 125 ° 11.03 W

Bottom
 Lat: 48 ° 59.10 N
 Lon: 125 ° 11.03 W

End
 Lat: 48 ° 59.11 N
 Lon: 125 ° 11.01 W

Oxygen Info For This Cast

Blank Value: 0.0013 mL · L⁻¹
 Std Value: 0.7103 mL · L⁻¹
 *Date Run: 04 | 05 | 10
 Analyst: CUJ

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

Grey 30

Water Properties Group

Rosette Log

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

Cruise ID: 2010-28

Station: LC10

Event #: 39

Ship: TULLY

UTC Date (dd|mmm|yyyy): 04 | MAY | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken						Comments				
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed <input checked="" type="checkbox"/> Pressure	Oxy	Nut	Sal	Chl a	NH ₄						
1	196				✓ 1130			✓								
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s):
SE/CS/SS

Bottom Depth: 1233 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	<u>0917</u>	
Bottom	<u>0945</u>	
End		

Positional Information

Start
 Lat: 48 ° 22 38 N
 Lon: 126 ° 20.15 W

Bottom
 Lat: 48 ° 22 36 N
 Lon: 126 ° 20.17 W

End
 Lat: ° N
 Lon: ° 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