

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14 Station: SI03Event #: 1Ship: TULLYUTC Date (dd mmm/yyyy): 19 Aug 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken			Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Flask Serial #	Value mL · L ⁻¹	
1	1	1	Bot 10	✓ 220	✓	✓		1477	0.000	9.3 A
2	2	2	200	✓			✓	3028	0.000	9.3 A
3	3	3	175	✓				1316	0.000	9.3 A
4	4	4	150	✓	✓			1313	0.000	9.3 A 3069 9.3A
5	5	5	125	✓				3108	1.245	9.3
6	6	6	100	✓				3124	1.691	9.4
7	7	7	75	✓				2073	1.457	9.3
8	8	8	50	✓		✓		3180	3.405	10.2
9	9	9	25	✓				2019	4.826	12.4
10	10	10	10	✓				3126	6.282	13.4 REMARK #10
11	11	11	5	✓	✓	✓	✓	3043	8.160	15.5
12										
13						HA	BC			
14										
15										
16										
17								3069	0.000	9.3
18										
19										
20										
21										
22										
23										
24										

Watchkeeper(s):
SR HMBottom Depth: 226 mTransmisso Cleaned: (Y) I N

Time	UTC	Local
Start	0051	1751
Bottom	0056	1756
End	0111	1811

Positional Information

Start
Lat: 48° 35.62' N
Lon: 123° 30.02' WBottom
Lat: 48° 35.60' N
Lon: 123° 30.01' WEnd
Lat: 48° 35.60' N
Lon: 123° 29.93' W

Oxygen Info For This Cast

Blank Value: 0.00047 mL · L⁻¹Std Value: 0.54786 mL · L⁻¹*Date Run: 19 Aug 10Analyst: HM

* 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: 2010-14 Station: P1 Event #: 2 Ship: Tully UTC Date (dd|mmm|yyyy): 19 | AUG | 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	HPLC			
1	12			Chl Max	10m		X		X		Xx			
2	13			5m			X	X	X		Xx			
3				75										
4				52										
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): SR

Bottom Depth: 130 m

Transmisso Cleaned: (Y) I N

Time	UTC	Local
Start	1521	0821
Bottom	1524	0824
End	1530	0830

Positional Information

Start Lat: 48 ° 34.53 N
Lon: 125 ° 30.02 W

Bottom Lat: 48 ° 34.54 N
Lon: 125 ° 29.99 W

End Lat: 48 ° 34.52 N
Lon: 125 ° 30.02 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

① DMS CAST

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14 Station: P2Event #: 3Ship: TULLYUTC Date (dd mmm/yyyy): 19 AUG 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	DMS d	DMS t	CHL	HPLC	Phab Chem	Flask Serial #	Value mL · L ⁻¹			
1		14	100	✓	100	✓	✓		✓	✓	✓						
2		15	75	✓		✓	✓				✓						
3		16	50	✓		✓	✓				✓						
4		17	40	✓		✓	✓				✓✓						
5		18	30	✓		✓	✓				✓						
6		19	25	✓		✓	✓				✓						
7		20	20	✓		✓	✓		✓✓	✓✓	✓						
8		21	15	✓		✓	✓				✓						
9		22	10	✓		✓	✓				✓						
10		23	5	✓		✓	✓		✓	✓	✓						
11		24	0	✓		✓	✓		✓	✓	✓						
12		25	MAX-10	✓	25						✓✓	✓✓					
13		26	CHL MAX	✓	15						✓✓	✓✓					
14		27	5	✓	5						✓✓	✓✓	✓				
15		28	5														
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): H MBottom Depth: 117 mTransmisso Cleaned: Y / N

Time	UTC	Local
Start	1900	1200
Bottom	1907	1207
End	1917	1213

Positional Information

Start
Lat: 48 ° 35 . 98 N
Lon: 125 ° 59 . 97 WBottom
Lat: 48 ° 35 . 95 N
Lon: 125 ° 59 . 94 WEnd
Lat: 48 ° 35 . 93 N
Lon: 125 ° 59 . 92 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹Std Value: _____ mL · L⁻¹

*Date Run: ____/____/____

Analyst: _____

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

② Deep Cast

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14 Station: P2 Event #: 5 Ship: TULLY UTC Date (dd/mmm/yyyy): 19 8 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken					Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	DIC	pH	Flask Serial #	Value mL · L ⁻¹	
1	1	28	Bot-10	✓ 105	✓	✓	✓	✓	✓	94	1.791	
2	2	29	100	✓	✓	✓	✓	✓	✓	1314	1.810	
3	3	30	75	✓	✓	✓	✓	✓	✓	1247/3016	2.025	2.017
4	4	31	75	✓	✓	✓	✓	✓	✓	1300	2.009	
5	5	32	50	✓	✓	✓	✓	✓	✓	1473	2.547	
6	6	33	25	✓	✓	✓	✓	✓	✓	1307	3.271	
7	7	34	10	✓	✓	✓	✓	✓	✓	1318	4.397	
8	8	35	5	✓	✓	✓	✓	✓	✓	745	6.922	
9	9	36	5	✓								pH incubation study
10	10	37	5	✓								MIKE ARYCHUCH
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Watchkeeper(s): H.M.

Bottom Depth: 117 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2048	1348
Bottom	2053	1353
End	21 03	14 03

Positional Information

Start Lat: 48° 35.96 N
Lon: 125° 59.97 W

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

End Lat: 48° 35.97 N
Lon: 125° 59.82 W

Oxygen Info For This Cast

Blank Value: 0.00047 mL · L⁻¹
Std Value: 0.54786 mL · L⁻¹
*Date Run: 19 8 10
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: 2010-14 Station: P3 Event #: 6 Ship: TULLY UTC Date (dd|mmm|yyyy): 20 | 9 | 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 HPLC				
1	38			CHL M	☒ 10~		☒		☒	☒				
2	39			5	☒		☒	☒	☒	☒				
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
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18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: 810 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0329	2029
Bottom	0344	2044
End	0402	2102

Positional Information

Start Lat: 49 ° 37.44 N
Lon: 126 ° 19.89 W

Bottom Lat: 49 ° 37.35 N
Lon: 126 ° 20.10 W

End Lat: 48 ° 37.40 N
Lon: 126 ° 19.73 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: 2010-14 Station: P4 Event #: 7 Ship: TULLY UTC Date (dd mmm/yyyy): 20 Aug 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy NH3	NO2 NO2	Sal H2S	FCM	WGA	Gas2	PNA	SAL	NUT		Flask Serial #	Value mL · L ⁻¹	
1	1	40	1300	✓													Constance
2	2	41	1300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
3	3	42	1300	✓													
4	4	43	1300	✓													
5	5	44	1000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
6	6	45	1000	✓													
7	7	46	1000	✓													
8	8	47	500	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
9	9	48	500	✓													
10	10	49	500	✓													
11	11	50	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
12	12	51	10	✓													
13	13	52	10	✓													
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): SRBottom Depth: 1322 mTransmisso Cleaned: (Y) N

Time	UTC	Local
Start	0732	0032
Bottom	0755	0055
End	0824	0124

Positional Information

Start
Lat: 48° 38.93 N
Lon: 126° 40.08 WBottom
Lat: 48° 38.96 N
Lon: 126° 40.10 WEnd
Lat: 48° 39.01 N
Lon: 126° 39.98 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹Std Value: _____ mL · L⁻¹

*Date Run: _____

Analyst: _____

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

Water Properties Group

② IOS Deep Cast
Rosette Log

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

Cruise ID: 2010-14 Station: P4Event #: 12Ship: TULLYUTC Date (dd mmm/yyyy): 20 Aug 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken			Oxygen Titrations							Comments	
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	DIL	pH	UBC				Flask Serial #	Value mL · L ⁻¹	
1		53	Bot-10	✓	1300	✓3.8	✓✓	✓	✓	✓				1477	0.520	
2		54	1250	✓		✓3.8	✓✓	✓	✓✓	✓				3028	0.432	
3		55	1250	✓		✓4.0	✓✓	✓	✓	✓				1316	0.430	
4		56	1000	✓		✓4.6	✓✓	✓	✓	✓				1313	0.264	
5		57	1000	✓												} UBC
6		58	800	✓												
7		59	800	✓		✓5.2	✓✓	✓	✓	✓				3069/310P	0.219	0.214
8		60	600	✓		✓5.6	✓✓	✓	✓	✓				3124	0.395	
9		61	400	✓		✓6.2	✓✓	✓	✓	✓				2073	0.894	
10		62	400	✓										3180		UBC
11		63	300	✓		✓6.6	✓	✓	✓	✓				3180	1.503	
12		64	250	✓		✓6.8	✓	✓	✓					2019	1.904	
13		65	200	✓		✓7.1	✓	✓	✓	✓				3126	2.443	
14		66	175	✓		✓7.3	✓	✓	✓					3043	2.722	
15		67	150	✓		✓7.5	✓	✓	✓	✓				2082	3.512	
16		68	125	✓		✓7.6	✓	✓	✓					2055	3.951	
17		69	100	✓		✓7.7	✓✓	✓	✓	✓				3084	4.556	
18		70	75	✓		✓7.8	✓	✓	✓					1498	5.184	
19		71	50	✓		✓8.1	✓	✓	✓	✓				1174	6.409	
20		72	25	✓		✓9.2	✓	✓	✓	✓				622	5.740	Proh with TOP of visum
21		73	10			✓11.5 ✓11.6	✓	✓	✓	✓				1367/657	6.237	6.232
22		74	5			✓11.8	✓	✓	✓					668	6.257	
23																
24		LOOP				SRP MRP	GC	RML	KS RMLP	GC				715	6.277	

Watchkeeper(s): SRBottom Depth: 1308 mTransmisso Cleaned: Y / N

Time	UTC	Local
Start	1545	0845
Bottom	1607	0907
End	1650	0950

Positional Information		
Start	Lat: 48 ° 38.99	N
	Lon: 126 ° 40.03	W

Bottom	Lat: 48 ° 38.92	N
	Lon: 126 ° 40.13	W

End	Lat: 48 ° 38.97	N
	Lon: 126 ° 40.10	W

Oxygen Info For This Cast	
Blank Value:	0.00026 mL · L ⁻¹
Std Value:	0.54803 mL · L ⁻¹
*Date Run:	22 8 10
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: 2010-14 Station: P4 Event #: 13 Ship: TULLY UTC Date (dd mmm/yyyy): 20 9 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	σ_t	T_{ex}	P_{ex}					Flask Serial #	Value mL · L ⁻¹	
1		75	500						✓								
2		76	500							✓							
3		77	400							✓							
4		78	300						✓								
5		79	300							✓							
6		80	200						✓								
7		81	200							✓							
8		82	150						✓								
9		83	150							✓							
10		84	100						✓								
11		85	100							✓							
12		86	75					✓	✓								
13		87	75							✓							
14		88	50					✓	✓								
15		89	50							✓							
16		90	30					✓	✓								
17		91	30							✓							
18		92	21							✓							
19		93	21					✓	✓								
20		94	20							✓							
21		95	20					✓	✓								
22		96	10							✓							
23		97	10					✓	✓								
24		98	5					✓	✓								

Watchkeeper(s): S.R.Bottom Depth: 1324 mTransmisso Cleaned: Y / N

Time	UTC	Local
Start	1819	1119
Bottom	1828	1128
End	1857	1157

Positional Information

Start
Lat: 48 ° 38.90 N
Lon: 126 ° 40.27 WBottom
Lat: 48 ° 38.25 N
Lon: 126 ° 40.20 WEnd
Lat: 48 ° 38.96 N
Lon: 126 ° 40.40 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹Std 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: 2010-14 Station: P4 Event #: 15 Ship: TULLY UTC Date (dd/mmm/yyyy): 20 / 8 / 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy Dns	Nut	Sal	DNSP f-d	CHL	HALC	Phyto	ONAR	Flask Serial #	Value mL · L ⁻¹	
1		99	300	✓	✓	✓									
2		100	200	✓	✓	✓		✓							
3		101	175	✓	✓	✓		✓							
4		102	100	✓	✓	✓		✓	✓						
5		103	75	✓	✓	✓			✓						
6		104	50	✓	✓	✓			✓						
7		105	40	✓	✓	✓			✓						
8		106	30	✓	✓	✓			✓						
9		107	25	✓	✓	✓			✓	✓					
10		108	20	✓	✓	✓		✓	✓						
11		109	15	✓	✓	✓			✓						
12		110	10	✓	✓	✓			✓						
13		111	5	✓	✓	✓		✓	✓						
14		112	0	✓	✓	✓		✓	✓						
15		113	MAX-16	✓					✓	✓					
16		114	CHL MAX	✓					✓	✓					
17		115	5	✓					✓	✓	✓				
18		116	5	✓			✓					✓			
19															
20															
21															
22															
23															
24															

Watchkeeper(s): H.M.Bottom Depth: 1323 mTransmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2015	1315
Bottom	2023	1323
End	2041	1341

Positional Information

Start
Lat: 48 ° 38.95 N
Lon: 126 ° 40.16 WBottom
Lat: 48 ° 38.97 N
Lon: 126 ° 40.26 WEnd
Lat: 48 ° 38.88 N
Lon: 126 ° 40.61 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹Std 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: 2010-14 Station: PS Event #: 16 Ship: TULLE UTC Date (dd|mmm|yyyy): 20 | 8 | 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 HPLC							
1	117			CHL M	✓ 10~		✓		✓	✓							
2	118			5	✓		✓	✓	✓	✓							
3																	
4				5	✓												FUNNEL TEST
5				5	✓												FOR VERONICA
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): H.M.

Bottom Depth: 2078 m

Transmisso Cleaned: (Y) / N

	UTC	Local
Time		
Start	2318	1620
Bottom	2354	1654
End	0028	1728

Positional Information

Start Lat: 48 ° 41.58 N
Lon: 127 ° 09.88 W

Bottom Lat: 48 ° 41.61 N
Lon: 127 ° 09.78 W

End Lat: 48 ° 41.55 N
Lon: 127 ° 09.81 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: 2010-14

Station: P6

Event #: 17 19

Ship: TULLY

UTC Date (dd|mmm|yyyy): 21 | 08 | 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 HPLC				
1	119			CHL M	☒ 14		☒		☒	☒				
2	120			5			☒	☒	☒	☒				
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: 2545 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	<u>0307</u>	<u>2007</u>
Bottom	<u>0343</u>	<u>2043</u>
End	<u>0424</u>	<u>2124</u>

Positional Information

Start Lat: 48 ° 44 47 N

Start Lon: 127 ° 39.83 W

Bottom Lat: 48 ° 44.52 N

Bottom Lon: 127 ° 40.04 W

End Lat: 48 ° 44.57 N

End Lon: 127 ° 39.98 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: 2010-14

Station: P7

Event #: 20

Ship: TULLY

UTC Date (dd|mmm|yyyy): 21 | Aug | 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 APLC				
1	121			CHL MAX	☒ 13m		☒		☒	☒				
2	122			5	☒		☒	☒	☒	☒				
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): SR

Bottom Depth: 2494 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0658	2358
Bottom	0744	0044
End	0825	0125

Positional Information

Start Lat: 48 ° 48.60 N
Lon: 128 ° 10.32 W

Bottom Lat: 48 ° 48.27 N
Lon: 128 ° 10.40 W

End Lat: 48 ° 48.15 N
Lon: 128 ° 10.41 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: 2010-14

Station: P8

Event #: 22

Ship: TULLY

UTC Date (dd/mm/yyyy): 21 Aug 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	CHL	HPLC	UOL			Flask Serial #	Value mL · L ⁻¹	
1	1	123	2000	✓ 3.8°C	✓	✓✓	✓			✓			94	1.402	
2	3	124	1500	✓ 4.7°C		✓✓	✓✓						1314	0.672	0.676
3	4	125	1500	✓ 4.4°C	✓	✓✓				✓			1247	0.689	#3016 4.7°C (duplicate) oxy
4		126	1250	✓ 4.9°C		✓✓				✓			1300	0.354	
5		127	1000	✓ 5.3°C		✓✓				✓			1473	0.246	
6		128	800	✓ 5.6°C		✓✓				✓			1307	0.293	
7		129	600	✓ 6.1°C		✓✓				✓			1318	0.420	
8		130	400	✓ 6.4°C		✓✓				✓			745	1.299	
9		131	300	✓ 6.9°C		✓				✓			1298	1.899	
10		132	250	✓ 7.1°C		✓							1392	2.668	
11		133	200	✓ 7.3°C		✓				✓			1395	3.871	
12		134	175	✓ 7.5°C		✓							1397	4.170	
13		135	150	✓ 7.8°C		✓				✓			1408	4.339	
14		136	125	✓ 8.1°C		✓✓							1421	4.556	
15		137	100	✓ 8.4°C		✓		✓		✓			1488	5.526	6.488
16		138	75	✓ 8.9°C	✓	✓		✓					3033	6.488	#708 8.9°C (duplicate) oxy
17		139	50	9.8°C		✓		✓		✓			1322	6.180	
18		140	25	14.3°C		✓		✓		✓			3203	5.915	
19		141	10	15.0°C		✓		✓✓		✓			3055	5.941	
20		142	5	14.9°C	✓	✓		✓					2051	5.942	
21		143	MAX-10	15				✓✓	✓✓						
22		144	CHL MAX	25				✓✓	✓✓						
23		145	5					✓✓	✓✓						
24	2	146	2000	✓											CONSTANCE

Watchkeeper(s): SR

Bottom Depth: 2515 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1403	0703
Bottom	1438	0738
End	1542	0842

Positional Information

Start Lat: 48 ° 49.06 N
Lon: 128 ° 39.89 W

Bottom Lat: 48 ° 49.05 N
Lon: 128 ° 39.93 W

End Lat: 48 ° 49.05 N
Lon: 128 ° 40.00 W

Oxygen Info For This Cast

Blank Value: 0.00 26 mL · L⁻¹

Std Value: 0.54803 mL · L⁻¹

*Date Run: 22/8/10

Analyst: HM

* 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: 2010-14 Station: P9 Event #: 23 24 Ship: Tully UTC Date (dd|mmm|yyyy): 21 | Aug | 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	Temp HPLC							
1	147			CHL MAX	1 35m		✓		✓✓	✓✓							
2	148			5	1		✓	X	✓✓	✓✓							
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): ER

Bottom Depth: 2347 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	1819	1119
Bottom	1858	1158
End	1912	1212

Positional Information

Start Lat: 48 ° 51.38 N
 Lon: 129 ° 10.03 W

Bottom Lat: 48 ° 51.44 N
 Lon: 129 ° 10.04 W

End Lat: 48 ° 51.41 N
 Lon: 129 ° 10.03 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: 2010-14 Station: P10 Event #: 26 Ship: TULLY UTC Date (dd|mmm|yyyy): 21 | 08 | 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 HPLC				
1	149			CHL MAX	☒ 29		✓		✓✓	✓✓				
2	150			S	☒		✓	✓	✓✓	✓✓				
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: 2642 m

Transmisso Cleaned: Y / N

	UTC	Local
Start	2229	1529
Bottom	2301	1601
End	2339	1639

Positional Information

Start
 Lat: 48 ° 53.69 N
 Lon: 129 ° 39.98 W

Bottom
 Lat: 48 ° 53.69 N
 Lon: 129 ° 40.03 W

End
 Lat: 48 ° 53.74 N
 Lon: 129 ° 39.96 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: 2010-14 Station: P11 Event #: 27 Ship: TULLY UTC Date (dd|mmm|yyyy): 22 | 09 | 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	151			CHL MAX	☒ 30		✓		✓✓	✓✓				
2	152			5m	☒		✓	✓	✓✓	✓✓				
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: 2751 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0205	1905
Bottom	0240	1940
End	0317	2017

Positional Information

Start	Lat: 48 ° 55.95	N
	Lon: 130 ° 09.95	W

Bottom

Lat: 48 ° 55.97	N
Lon: 130 ° 10.04	W

End

Lat: 48 ° 55.89	N
Lon: 130 ° 10.19	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

① UBC Cast

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14 Station: P12 Event #: 29 Ship: TULLY UTC Date (dd|mmm|yyyy): 22 | 08 | 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken									Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal							Flask Serial #	Value mL · L ⁻¹	
1		153	2000			✓	✓	✓								
2		154	2000													
3		155	2000													
4		156	1000			✓	✓	✓								
5		157	1000													
6		158	1000													
7		159	500			✓	✓	✓								
8		160	500													
9		161	500													
10		162	10			✓	✓	✓								
11		163	10													
12		164	10													
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): N.M./S.R.

Bottom Depth: 3235 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0658	2358
Bottom	0732	0032
End	0806	0106

Positional Information

Start
Lat: 48 ° 58.22 N
Lon: 130 ° 39.98 W

Bottom
Lat: 48 ° 58.22 N
Lon: 130 ° 40.02 W

End
Lat: 48 ° 58.24 N
Lon: 130 ° 39.97 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: 2010-14 Station: P12

Event #: 36

Ship: TULLY

UTC Date (dd mmm/yyyy): 22 Aug 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken			Oxygen Titrations							Comments	
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Flask Serial #	Value mL · L ⁻¹							
1		188	500													
2		189	500													
3		190	400													
4		191	300													
5		192	300													
6		193	200													
7		194	200													
8		195	150													
9		196	150													
10		197	100													
11		198	100													
12		199	75													
13		200	75													
14		201	50													
15		202	50													
16		203	30													
17		204	30													
18		205	20													
19		206	20													
20		207	10													
21		208	10													
22	✓	209	5													Compromised
23	18	210	DCM	27												
24	19	211	DCM	27												leaking/compromised

Watchkeeper(s): SR

Bottom Depth: 3233 m

Transmisso Cleaned: Y/N

Time	UTC	Local
Start	1707	1007
Bottom	1717	1017
End	1741	1041

Positional Information

Start Lat: 48° 58.18' N
Lon: 130° 39.77' W

Bottom Lat: 48° 58.11' N
Lon: 130° 39.92' W

End Lat: 48° 58.23' N
Lon: 130° 39.90' 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: 2010-14 Station: P12Event #: 38Ship: TULLYUTC Date (dd:mmm/yyyy): 22 Aug 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	DMSD	CHL	HPCL	ONAR		Flask Serial #	Value mL · L ⁻¹	
1		212	300	✓	✓	✓									
2		213	200	✓	✓	✓		✓							
3		214	175	✓	✓	✓		✓							
4		215	100	✓	✓	✓		✓	✓						
5		216	75	✓	✓	✓			✓						
6		217	50	✓	✓	✓			✓						
7		218	40	✓	✓	✓			✓						
8		219	30	✓	✓	✓			✓						
9		220	25	✓	✓	✓			✓						
10		221	20	✓	✓	✓		✓	✓						
11		222	15	✓	✓	✓			✓						
12		223	10	✓	✓	✓			✓						
13		224	5	✓	✓	✓		✓	✓						
14		225	0		✓	✓		✓	✓						
15	8	226	MAX-10	✓					✓	✓					
16	9	227	CHL MAX	✓					✓	✓					
17		228	5	✓					✓	✓					
18		229	5	✓			✓				✓				
19															
20															
21															
22															
23															
24															

Watchkeeper(s): SRBottom Depth: 3233 mTransmisso Cleaned: Y / N

Time	UTC	Local
Start	<u>1930</u>	<u>1210</u>
Bottom	<u>1917</u>	<u>1217</u>
End	<u>1936</u>	<u>1236</u>

Positional Information

Start

Lat: 48 ° 58.29 N

Lon: 130 ° 39.99 W

Bottom

Lat: 48 ° 58.19 N

Lon: 130 ° 40.03 W

End

Lat: 48 ° 58.06 N

Lon: 130 ° 40.35 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: 2010-14 Station: P12Event #: 40Ship: TULLYUTC Date (dd mmm/yyyy): 22 Aug 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments		
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	DIV	pH	UBC				T'		Flask Serial #	Value mL · L ⁻¹
1		165	Bot-10	✓ 3051	✓	✓✓	✓	✓	✓	✓				2.8	860	2.310	
2		166	3000	✓		✓✓	✓	✓	✓	✓				2.8	861	2.263	
3		167	3000	✓		✓✓				✓				2.8	862	2.274	
4		168	2500	✓		✓✓			✓					2.9	863	1.864	
5		169	2000	✓		✓✓				✓				3.3	864	1.374	
6		170	1500	✓		✓✓				✓				3.5	865	0.686	
7		171	1250	✓		✓✓				✓				4.1 4.4	866	0.361	867 - 0.348
8		172	1000	✓		✓✓				✓				4.6	868	0.273	
9		173	800	✓		✓✓				✓				5.1	869	0.389	
10		174	600	✓		✓✓				✓				5.5	870	0.580	
11		175	400	✓		✓✓				✓				6.3	871	1.125	
12		176	300	✓		✓				✓				6.5 6.7	872	1.998	873 - 1.989
13		177	250	✓		✓			✓					7.0	874	2.858	
14		178	200	✓		✓				✓				7.3	875	4.125	
15		179	175	✓		✓								7.5	876	4.603	
16		180	150	✓		✓				✓				7.6	877	5.185	
17		181	125	✓		✓			✓					7.9	878	5.752	
18		182	100	✓		✓				✓				8.3	879	6.184	
19		183	75	✓		✓✓								8.8 8.9	880	6.539	881 - 6.534
20		184	50	✓		✓				✓				10.7	882	6.517	
21		185	25	✓		✓				✓				15.0	883	6.022	
22		186	10	✓		✓				✓				15.3	884	6.060	LEAKING
23		187	5	✓		✓		✓	✓	✓				15.7	885	6.062	
24																	

Watchkeeper(s): H.M.Bottom Depth: 3233 mTransmisso Cleaned: (Y) / N

Time	UTC	Local
Start	20 25	1325
Bottom	21 19	1419
End	22 36	1536

Positional Information

Start
Lat: 48 ° 58.15 N
Lon: 130 ° 39.99 W

Bottom
Lat: 48 ° 57.72 N
Lon: 130 ° 40.58 W

End
Lat: 48 ° 57.93 N
Lon: 130 ° 40.22 W

Oxygen Info For This Cast

Blank Value: 0.00026 mL · L⁻¹Std Value: 0.54003 mL · L⁻¹*Date Run: 22 Aug 10Analyst: H.M.

*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: 2010-14 Station: P13 Event #: A1/43 Ship: TULLY UTC Date (dd|mmm|yyyy): 23 | 08 | 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	230			25	☒											No "Chl Max"
2	231			5	☒											No fluorometer
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s):
MR

Bottom Depth: 3000 m

Transmisso Cleaned: Y / N/A

Time	UTC	Local
Start	0309	2009
Bottom	0344	2044
End	0420	2120

Positional Information

Start	Lat: 49 ° 02.71	N
	Lon: 131 ° 39.99	W

Bottom

Lat: 49 ° 02.78	N
Lon: 131 ° 40.03	W

End

Lat: 49 ° 02.64	N
Lon: 131 ° 40.00	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: 2010-14

Station: P15

Event #: 45/46

Ship: Tully

UTC Date (dd|mmm|yyyy): 23 | Aug | 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	HPLC			
1	232			25	☒		☒		☒		☒			
2	233			5	☒		☒		☒		☒			
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): SR

Bottom Depth: 3405 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Start	1532	0832
Bottom	1606	0906
End	1645	0945

Positional Information
 Start
 Lat: 49 ° 11.95 N
 Lon: 132 ° 39.94 W
133 ▼

Bottom
 Lat: 49 ° 11.96 N
 Lon: 133 ° 39.96 W
 ▼

End
 Lat: 49 ° 11.99 N
 Lon: 133 ° 40.01 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

① DMS, ONAR cast

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14 Station: P16 Event #: 48 Ship: TULLY UTC Date (dd|mmm|yyyy): 23 | 08 | 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy DMS	Nut	Sal	DMS end	CHC	HPAC			Flask Serial #	Value mL · L ⁻¹	
1		234	300	✓	✓	✓									
2		235	200	✓	✓	✓		✓							
3		236	175	✓	✓	✓		✓							
4		237	100	✓	✓	✓		✓	✓						
5		238	75	✓	✓	✓			✓						
6		239	50*	✓	✓	✓			✓						
7		240	40	✓	✓	✓			✓						
8		241	30	✓	✓	✓			✓						
9		242	25	✓	✓	✓			✓						
10		243	20	✓	✓	✓		✓	✓						
11		244	15	✓	✓	✓			✓						
12		245	10	✓	✓	✓			✓						
13		246	5	✓	✓	✓		✓	✓						
14		247	0	✓	✓	✓		✓	✓						
15		248	MAX-10	✓					✓	✓					
16		249	CHI MAX	✓					✓	✓					
17		250	5	✓					✓	✓					
18		251	5	✓			✓								ONAR
19		252	5	✓							✓				Photo Chem
20															
21															
22															
23															
24															

Watchkeeper(s): H.M.

Bottom Depth: 3636 m

Transmissio Cleaned: Y / N

Time	UTC	Local
Start	2140	1440
Bottom	2147	1447
End	2206	1506

Positional Information

Start
Lat: 49° 17.01 N
Lon: 134° 39.95 W

Bottom
Lat: 49° 16.98 N
Lon: 134° 39.98 W

End
Lat: 49° 17.02 N
Lon: 134° 40.01 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: 2010-14 Station: P16Event #: 52/53Ship: TULLYUTC Date (dd mmm yyyy): 23/08/10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken			Oxygen Titrations						Comments	
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Flask Serial #	Value mL · L ⁻¹						
1		253	500	✓											
2		254	500	✓											
3		255	400	✓											
4		256	300	✓											
5		257	300	✓											
6		258	200	✓											
7		259	200	✓											
8		260	150	✓											
9		261	150	✓											
10		262	100	✓											
11		263	100	✓											
12		264	75	✓											
13		265	75	✓											
14		266	50	✓											
15		267	50	✓											
16		268	30	✓											
17		269	30	✓											
18		270	20	✓											
19		271	20	✓											
20		272	10	✓											
21		273	10	✓											
22		274	5	✓											
23		275	DCM	✓	40										
24		276	DCM	✓	40										

Watchkeeper(s): H.M.Bottom Depth: 3636 mTransmisso Cleaned: Y / N

Time	UTC	Local
Start	2357	1657
Bottom	0009	1709
End	0033	1733

Positional Information

Start	Lat: <u>49</u> ° <u>17.20</u> N
	Lon: <u>134</u> ° <u>40.14</u> W

Bottom	Lat: <u>49</u> ° <u>17.13</u> N
	Lon: <u>134</u> ° <u>40.11</u> W

End	Lat: <u>49</u> ° <u>17.01</u> N
	Lon: <u>134</u> ° <u>39.98</u> W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹Std 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: 2010-14 Station: P16 Event #: 55 156 Ship: TULLY UTC Date (dd|mmm|yyyy): 24 | 08 | 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	DIV	pH	DO				Flask Serial #		Value mL · L ⁻¹		
1		277	Bot-10	✓	3686	✓	✓	✓	✓	✓	✓				2.6	860	2.740	
2		278	3500	✓		✓	✓	✓	✓	✓	✓				2.6	861	2.696	
3		279	3500	✓		✓	✓	✓	✓	✓	✓				2.7 2.9	862	2.698	863-2.701
4		280	3000	✓			✓	✓	✓	✓	✓				2.9	864	2.457	
5		281	2500	✓			✓	✓	✓	✓	✓				3.1	865	1.944	
6		282	2000	✓			✓	✓	✓	✓	✓				3.4	866	1.210	
7		283	1500	✓			✓	✓	✓	✓	✓				3.8	867	0.490	
8		284	1250	✓			✓	✓	✓	✓	✓				4.4	868	0.317	
9		285	1000	✓			✓	✓	✓	✓	✓				4.7	869	0.322	
10		286	800	✓		✓	✓	✓	✓	✓	✓				5.0 5.3	870	0.393	871 0.406
11		287	600	✓			✓	✓	✓	✓	✓				5.6	872	0.692	
12		288	400	✓			✓	✓	✓	✓	✓				5.9	873	1.576	
13		289	300	✓			✓	✓	✓	✓	✓				6.2	874	2.599	
14		290	250	✓			✓	✓	✓	✓	✓				6.5	875	3.399	
15		291	200	✓			✓	✓	✓	✓	✓				6.9	876	4.141	
16		292	175	✓			✓	✓	✓	✓	✓				7.3	877	4.440	
17		293	150	✓			✓	✓	✓	✓	✓				7.7	878	4.769	
18		294	125	✓		✓	✓	✓	✓	✓	✓				7.8 7.9	879	5.328	880 5.335
19		295	100	✓			✓	✓	✓	✓	✓				7.9	881	6.228	
20		296	75	✓			✓	✓	✓	✓	✓				8.2	882	6.679	
21		297	50	✓			✓	✓	✓	✓	✓				9.4	883	6.765	
22		298	25	✓			✓	✓	✓	✓	✓				15.1	884	6.135	bottom seal leaking.
23		299	10	✓			✓	✓	✓	✓	✓				15.6	885	6.065	
24		300	5	✓		✓	✓	✓	✓	✓	✓				15.6	886	6.061	vent too open

Watchkeeper(s): H.M.Bottom Depth: 3636 mTransmisso Cleaned: (P) 1 N

Time	UTC	Local
Start	0125	1825
Bottom	0227	
End	0356	2056

Positional Information

Start
Lat: 49 ° 17.16 N
Lon: 134 ° 40.06 WBottom
Lat: 49 ° 16.96 N
Lon: 134 ° 39.84 WEnd
Lat: 49 ° 16.64 N
Lon: 134 ° 39.42 W

Oxygen Info For This Cast

Blank Value: 0.0051 mL · L⁻¹Std Value: 0.54812 mL · L⁻¹*Date Run: 25 | 0 | 10Analyst: H.M.

* 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: 2010-14 Station: P16 Event #: 58 Ship: TULLY UTC Date (dd|mmm|yyyy): 24 | 08 | 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments		
			Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal							Flask Serial #		Value mL · L ⁻¹	
1		301	2000	☒													} Cong. tance
2		302	2000	☒													
3		303	2000	☒													
4		304	2000	☒													
5		305	2000	☒			☒	☒	☒								
6		306	1000	☒													
7		307	1000	☒													
8		308	1000	☒			☒	☒	☒								
9		309	500	☒													
10		310	500	☒													
11		311	500	☒			☒	☒	☒								
12		312	10	☒													
13		313	10	☒													
14		314	10	☒			☒	☒	☒								
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): H.M.Bottom Depth: 3636 mTransmisso Cleaned: (Y) / N

Time	UTC	Local
Start	<u>0512</u>	<u>2212</u>
Bottom	<u>0545</u>	<u>2245</u>
End	<u>0625</u>	<u>2325</u>

Positional Information

Start
Lat: 49 ° 17.15 N
Lon: 134 ° 39.95 WBottom
Lat: 49 ° 16.80 N
Lon: 134 ° 39.75 WEnd
Lat: 49 ° 16.55 N
Lon: 134 ° 39.27 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹Std 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: 2010-14 Station: P17 Event #: 61 Ship: Tully UTC Date (dd|mmm|yyyy): 24|Aug|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	chl			
1	315			Chl Max	35m		✓		✓	✓	✓			
2	316			S			✓	✓	✓	✓	✓			
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): STR

Bottom Depth: 3663 m

Transmisso Cleaned: (Y) / N

	UTC	Local
Start	<u>1410</u>	<u>0710</u>
Bottom	<u>1445</u>	<u>0745</u>
End	<u>1522</u>	<u>0822</u>

Positional Information
 Start
 Lat: 49 ° 21.03 N
 Lon: 135 ° 39.96 W

Bottom
 Lat: 49 ° 21.01 N
 Lon: 135 ° 39.97 W

End
 Lat: 49 ° 20.98 N
 Lon: 135 ° 39.97 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: 2010-14

Station: P18

Event #: 63/64

Ship: TULLY

UTC Date (dd|mmm|yyyy): 24 | 08 | 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	PH			
1	317			2000	✓		✓		✓	✓	12			
2	318			CHECK	✓	48	✓		✓	✓				
3	319			5	✓		✓	✓	✓	✓				
4	320			5	✓						12			
5														
6														
7														#63 FROM 0 → 2000
8														UP TO 284
9														#64 FROM 284 TO
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: 3666 m

Transmissio Cleaned: (✓) 1 N

Time	UTC	Local
Start	1952	1252
Bottom	2023	1323
End	2058	1358

Positional Information
 Start
 Lat: 49 ° 25.99 N
 Lon: 136 ° 40.02 W

Bottom
 Lat: 49 ° 25.96 N
 Lon: 136 ° 40.04 W

End
 Lat: 49 ° 25.98 N
 Lon: 136 ° 40.04 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: 2010-14 Station: P19 Event #: 65166 Ship: TULLY UTC Date (dd|mmm|yyyy): 25 | 08 | 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	321			CHL MAX	☒ 40		☒		☒	☒				
2	322			5m	☒		☒	☒	☒	☒				
3														
4														MISSING ARCHIVES
5														SEE LOG BOOK
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): Y.M.

Bottom Depth: 3928 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0131	1831
Bottom	0208	1908
End	0243	1943

Positional Information

Start	Lat: <u>49</u> ° <u>30.00</u>	<u>N</u>
	Lon: <u>137</u> ° <u>40.01</u>	<u>W</u>

▼

Bottom	Lat: <u>49</u> ° <u>29.84</u>	<u>N</u>
	Lon: <u>137</u> ° <u>40.12</u>	<u>W</u>

▼

End	Lat: <u>49</u> ° <u>29.93</u>	<u>N</u>
	Lon: <u>137</u> ° <u>40.01</u>	<u>W</u>

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: 2010-14 Station: P20Event #: 68/69 Ship: TULLYUTC Date (dd|mmm|yyyy): 25|Aug|2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken			Oxygen Titrations		Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Flask Serial #	Value mL · L ⁻¹	
1		323	2000	✓						} CONSTANT
2		324	2000	✓						
3		325	2000	✓						
4		326	2000	✓						
5		327	2000	✓		✓	✓	✓		
6		328	1000							
7		329	1000							
8		330	1000			✓	✓	✓		
9		331	500							
10		332	500							
11		333	500			✓	✓	✓		
12		334	10							
13		335	10							
14		336	10			✓	✓	✓		
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

Watchkeeper(s): SRBottom Depth: 4013 mTransmisso Cleaned: Y N

Time	UTC	Local
Start	0812	0112
Bottom	0847	0147
End	0932	0232

Positional Information

Start Lat: 49 ° 33.97 N
Lon: 138 ° 39.96 W

Bottom Lat: 49 ° 33.95 N
Lon: 138 ° 39.99 W

End Lat: 49 ° 33.95 N
Lon: 138 ° 39.99 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: 2010-14 Station: P20Event #: 73Ship: TULLYUTC Date (dd/mm/yyyy): 25 Aug 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken			Oxygen Titrations						Comments	
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Flask Serial #	Value mL · L ⁻¹						
1		337	Bot-10	✓ 4024	2.5	✓	✓	557	2.969	3969m or 4032db					
2		338	3500	✓	2.52	✓	✓	1470	2.839						
3		339	3500	✓	2.6	✓	✓	1386	2.836	tip valve open					
4		340	3000	✓	2.6	✓	✓	3187	2.464						
5		341	2500	✓	2.8	✓	✓	1373	1.922	1.920					
6		342	2000	✓	3.2	✓	✓	1134	1.247						
7		343	1500	✓	3.5	✓	✓	631	0.508						
8		344	1250	✓	3.8	✓	✓	1248	0.316						
9		345	1000	✓	4.2	✓	✓	1404	0.283						
10		346	800	✓	4.5	✓	✓	139	0.411						
11		347	600	✓	5.2	✓	✓	1146	0.580						
12		348	400	✓	5.6	✓	✓	1489	1.223						
13		349	300	✓	5.8	✓	✓	690	2.149						
14		350	250	✓	5.9	✓	✓	2027	3.042	3.043					
15		351	200	✓	6.4	✓	✓	528	3.848						
16		352	175	✓	6.8	✓	✓	3157	4.213						
17		353	150	✓	7.1	✓	✓	371	4.547						
18		354	125	✓	7.4	✓	✓	1374	4.918						
19		355	100	✓	7.5	✓	✓	621	5.814						
20		356	75	✓	7.8	✓	✓	569	6.634	6.638					
21		357	50	✓	9.2	✓	✓	1475	6.838						
22		358	25	✓	12.9	✓	✓	1378	7.055						
23		359	10	✓	15.4	✓	✓	1261	5.943						
24		360	5	✓	15.3	✓	✓	196	5.944	tip valve open					

Watchkeeper(s): SR + MRBottom Depth: 4032^{db} m 3969 mTransmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1413	0713
Bottom	1523	0823
End	1659	0959

Positional Information

Lat:	49 ° 33.87	N
Lon:	138 ° 40.01	W

Lat:	49 ° 33.99	N
Lon:	138 ° 40.22	W

Lat:	49 °	N
Lon:	138 °	W

Oxygen Info For This Cast

Blank Value: 0.00054 mL · L⁻¹Std Value: 0.54812 mL · L⁻¹*Date Run: 25 8 10Analyst: H.M.

* 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: 2010-14 Station: P20 Event #: 76/77 Ship: TULLY UTC Date (dd|mmm|yyyy): 25 | AUG | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	☒ DMS	Nut	Sal	☒ DHP	☒ CHL	☒ HPLC	☒ ONA		Flask Serial #	Value mL · L ⁻¹	
1		385	300	✓	✓	✓									
2		386	200	✓	✓	✓		✓							
3		387	175	✓	✓	✓		✓							
4		388	100	✓	✓	✓		✓	✓						
5		389	75	✓	✓	✓			✓						↓ 76 CAST
6		390	50	✓	✓	✓			✓						↓ 77
7	15	391	40	✓	✓	✓			✓						
8		392	30	✓	✓	✓			✓						
9		393	25	✓	✓	✓			✓						
10		394	20	✓	✓	✓		✓	✓						
11		395	15	✓	✓	✓			✓						
12		396	10	✓	✓	✓			✓	✓					
13		397	5	✓	✓	✓		✓	✓						
14		398	0	✓	✓	✓		✓	✓						
15		399	MAX-10	✓	44				✓	✓					
16		400	CHL MAX	✓	34				✓	✓					
17		401	5	✓					✓	✓					
18		402	5	✓			✓				✓				
19															
20															
21															
22															
23															
24															

Watchkeeper(s): SR + MRBottom Depth: 3969 mTransmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1821	1121
Bottom	1826	1126
End		

Positional Information

Start
Lat: 49° 34.07 N
Lon: 138° 40.09 WBottom
Lat: 49° 34.05 N
Lon: 138° 40.11 WEnd
Lat: 49° N
Lon: 138° W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹Std Value: _____ mL · L⁻¹

*Date Run: ____/____/____

Analyst: _____

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

② VERONICA'S CAST

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14 Station: P20 Event #: 78 Ship: TULLY UTC Date (dd/mmm/yyyy): 25 08 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	pH	T _s	σ _t					Flask Serial #	Value mL · L ⁻¹	
1		361	500	✓						✓							
2		362	500	✓					✓								
3		363	400	✓						✓							
4		364	300	✓					✓								
5		365	300	✓						✓							
6		366	200	✓					✓								
7		367	200	/						✓							
8		368	150	✓					✓								
9		369	150	/						✓							
10		370	100	✓					✓								
11		371	100	✓						✓							
12		372	75	✓				✓	✓								
13		373	75	✓				✓	✓								
14		374	50	✓				✓									
15		375	50*	✓						✓							
16		376	30	✓				✓	✓								
17		377	30	✓						✓							
18		378	20	✓				✓	✓								
19		379	20	✓						✓							
20		380	10	✓				✓	✓								
21		381	10	✓						✓							
22		382	5	✓				✓	✓								
23		383	DCM	/	36					✓							
24		384	DCM	✓	36			✓	✓								

Watchkeeper(s): H.M.

Bottom Depth: 3965 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	1922	1222
Bottom	1932	1232
End	1956	1256

Positional Information
Start
Lat: 49 ° 34.05 N
Lon: 138 ° 39.90 W

Bottom
Lat: 49 ° 34.02 N
Lon: 138 ° 39.96 W

End
Lat: 49 ° 34.00 N
Lon: 138 ° 40.01 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

① 30m ONA_r cast

Rosette Log

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

Cruise ID: 2010-14Station: Pa-004Event #: 79Ship: TULLYUTC Date (dd:mmm/yyyy): 26 Aug 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken			Oxygen Titrations		Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Flask Serial #	Value mL · L ⁻¹	
1		403	30				✓	✓		
2		404	20				✓	✓		
3		405	10				✓	✓		
4		406	5				✓	✓		
5		407	0				✓	✓		
6										
7										
8										
9										
10										
11										
12										
13										
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19										
20										
21										
22										
23										
24										

Watchkeeper(s): SRBottom Depth: 4241 mTransmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1807	1107
Bottom	1808	1108
End	1814	1114

Positional Information

Start
Lat: 50° 2.85 N
Lon: 144° 52.86 WBottom
Lat: 50° 2.84 N
Lon: 144° 52.85 WEnd
Lat: 50° 2.82 N
Lon: 144° 52.85 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹Std Value: _____ mL · L⁻¹

*Date Run: _____

Analyst: _____

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

② 200m ONA cast

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14 Station: Pa-004 Event #: 80 Ship: TULLY UTC Date (dd|mmm|yyyy): 26 | 08 | 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken							Oxygen Titrations		Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy CHL	Nut	Sal	UW PWT	UW DIC	UW DOC	Tos PWT	Flask Serial #	Value mL · L ⁻¹	
1		408	200	✓		✓	✓			✓				
2		409	175	✓						✓				
3		410	150	✓						✓				
4		411	125	✓						✓				
5		412	100	✓	✓					✓				
6		413	75	✓	✓					✓				
7		414	50	✓	✓					✓	✓			
8		415	30	✓	✓			✓	✓	✓	✓			
9		416	20	✓	✓			✓	✓	✓	✓			
10		417	10	✓	✓			✓	✓	✓	✓			
11		418	5	✓	✓			✓	✓	✓	✓			
12		419	0	✓	✓			✓	✓	✓	✓			
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: 4261 m

Transmisso Cleaned: (Y) 1 N

Time	UTC	Local
Start	1904	1204
Bottom	1913	1213
End	1932	1232

Positional Information

Start
Lat: 50 ° 02.91 N
Lon: 144 ° 52.90 W

Bottom
Lat: 50 ° 02.87 N
Lon: 144 ° 52.91 W

End
Lat: 50 ° 02.83 N
Lon: 144 ° 52.90 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

C.MAT = 33m

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14 Station: P26 Event #: 84 Ship: TULLY UTC Date (dd:mmm/yyyy): 26 AUG 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	DHBP	CHL	HPCL	Phy/b	Pho/b	Chem	Flask Serial #	Value mL • L ⁻¹		
1	2	420	250*	✓													VERONICA
2	3	421	250	✓													
3	4	422	250	✓													
4	5	423	250	✓													
5	6	424	250	✓													
6	7	425	250	✓													
7	8	426	250	✓													
8	9	427	250	✓													
9	1	428	300	✓		✓	✓										
10	10	429	200	✓		✓	✓		✓								
11		430	175	✓		✓	✓		✓								
12		431	100	✓		✓	✓		✓	✓							
13		432	75	✓		✓	✓			✓							
14		433	50	✓		✓	✓			✓	✓						
15		434	40	✓		✓	✓			✓	✓						
16		435	30	✓		✓	✓			✓		✓					
17		436	25	✓		✓	✓			✓							
18		437	20*	✓		✓	✓		✓	✓							
19		438	15	✓		✓	✓			✓							
20		439	10	✓		✓	✓			✓							
21		440	5	✓		✓	✓		✓	✓			✓				
22		441	0	✓		✓	✓		✓	✓							
23		442	CHC M	✓	20					✓	✓						
24		443	5	✓						✓	✓	✓					

Watchkeeper(s): MR/HMBottom Depth: 4253 mTransmisso Cleaned: (Y) N

Time	UTC	Local
Start	2213	1513
Bottom	2219	1519
End	2240	1540

Positional Information

Start	Lat: <u>50° 00.02</u> N
	Lon: <u>144° 59.96</u> W

Bottom	Lat: <u>50° 00.00</u> N
	Lon: <u>144° 59.86</u> W

End	Lat: <u>50° 00.08</u> N
	Lon: <u>145° 00.06</u> 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

② Deep Cast

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14 Station: P26 Event #: 86 Ship: TULLY UTC Date (dd mmm/yyyy): 26¹²⁷ 08 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	DO	Alk	PH	DO ₂	EC	NUT Cod	NUT Flag	Flask Serial #	Value mL · L ⁻¹	
1		444	Bd-10	✓	4317	✓		✓			✓	2.1	✓	✓	860	3.208	
2		445	4000	✓			✓	✓			✓	2.1	5	2	861	3.172	
3		446	3500	✓						✓		2.1	✓	✓	862	2.952	
4		447	3000	✓							✓	2.3	✓	✓	863	2.554	
5		448	2500	✓		✓						2.6 2.6	✓	✓	864	1.964	865 - 1.966
6		449	2000	✓							✓	2.7	✓	✓	866	1.325	
7		450	1500	✓							✓	3.1	✓	✓	867	0.640	
8		451	1250	✓							✓	3.3	✓	✓	868	0.427	
9		452	1000	✓							✓	3.8	✓	✓	869	0.352	
10		453	800	✓						✓	✓	4.1	✓	✓	870	0.424	
11		454	600	✓							✓	4.6	5	✓	871	0.464	
12		455	400	✓							✓	4.9	5	✓	872	0.872	
13		456	300	✓							✓	5.1		✓	873	1.715	
14		457	250	✓		✓						5.2 5.4		6	874	2.218	875 - 2.210
15		458	200	✓							✓	5.6		✓	876	2.985	
16		459	175	✓						✓		5.7		✓	877	3.282	
17		460	150	✓							✓	5.9		✓	878	3.615	
18		461	125	✓								6.2		✓	879	4.303	
19		462	100	✓							✓	6.6		✓	880	6.193	
20		463	75	✓		✓				✓		7.2 7.2		✓	881	6.680	882 - 6.680
21		464	50	✓							✓	8.3		✓	883	6.804	
22		465	25	✓							✓	12.2		✓	884	6.615	
23		466	10	✓							✓	13.6		6	885	6.206	
24		467	5	✓								13.6		✓	886	6.202	

Watchkeeper(s): H.M.

Bottom Depth: 4253 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	2330	1630
Bottom	0033	1733
End	0208	1908

Positional Information

Start Lat: 50° 00.11 N
Lon: 144° 59.94 W

Bottom Lat: 50° 00.01 N
Lon: 145° 00.06 W

End Lat: 49° 59.99 N
Lon: 144° 59.71 W

Oxygen Info For This Cast

Blank Value: 0.00061 mL · L⁻¹

Std Value: 0.54763 mL · L⁻¹

*Date Run: 29 8 10

Analyst: _____

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

Loop 5m

P26 Loop 807 6.272 Loop

Water Properties Group

③ UBC CAST

Rosette Log

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

Cruise ID: 2010-14 Station: P26 Event #: 88 Ship: TULLY UTC Date (dd mmm/yyyy): 27 08 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken			Oxygen Titrations		Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Flask Serial #	Value mL · L ⁻¹	
1		468	2000	✓						} CONSTANT
2		469	2000	✓						
3		470	2000	✓						
4		471	2000	✓						
5		472	2000	✓						
6		473	2000	✓		✓✓	✓			
7		474	1000	✓						
8		475	1000	✓						
9		476	1000	✓						
10		477	1000	✓		✓✓	✓			
11		478	500	✓						
12		479	500	✓						
13		480	500	✓						
14		481	500	✓		✓✓	✓			
15		482	10	✓						
16		483	10	✓						
17		484	10	✓						
18		485	10	✓		✓	✓			
19										
20										
21										
22										
23										
24										

Watchkeeper(s): H.M.Bottom Depth: 4253 mTransmisso Cleaned: (Y) N

Time	UTC	Local
Start	0337	20 37
Bottom	040	21 0
End	0447	2147

Positional Information

Start
Lat: 50 ° 00 . 05 N
Lon: 144 ° 59 . 94 WBottom
Lat: 50 ° 00 . 05 N
Lon: 144 ° 59 . 84 WEnd
Lat: 50 ° 00 . 03 N
Lon: 144 ° 59 . 93 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹Std 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: 2010-14 Station: P26 Event #: 90 Ship: TULLY UTC Date (dd mmm/yyyy): 27 08 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken			Oxygen Titrations		Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Flask Serial #	Value mL · L ⁻¹	
1		486	4000	☒			✓	✓		
2		487	3000	☒			✓	✓		
3		488	2000	☒			✓	✓		
4		489	1700				✓	✓		
5		490	1400				✓	✓		
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

Watchkeeper(s): H.M.Bottom Depth: 4253 mTransmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0531	2231
Bottom	0638	2338
End	0751	0051

Positional Information

Start
Lat: 50 ° 00.05 N
Lon: 144 ° 59.98 WBottom
Lat: 49 ° 59.99 N
Lon: 144 ° 59.95 WEnd
Lat: 49 ° 59.96 N
Lon: 144 ° 59.98 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹Std Value: _____ mL · L⁻¹

*Date Run: _____

Analyst: _____

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

⑤ ONA 2

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14 Station: P26 Event #: 92 Ship: TULLY UTC Date (dd|mmm|yyyy): 27 Aug 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed ☐ Pressure	Oxy	Nut	Sal	170	0016	0+7					Flask Serial #	Value mL · L ⁻¹	
1		491	200				✓	✓	✓								
2		492	150				✓	✓	✓								
3		493	125				✓	✓	✓								
4		494	100				✓	✓	✓								
5		495	50				✓	✓	✓								
6		496	10				✓	✓	✓								
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): SR

Bottom Depth: 4253 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	0837	0137
Bottom	0841	0141
End	0852	0152

Positional Information

Start Lat: 50 ° 0.01 N
Lon: 144 ° 59.96 W

Bottom Lat: 50 ° 0.00 N
Lon: 144 ° 59.97 W

End Lat: 49 ° 59.99 N
Lon: 145 ° 0.01 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: 2010-14 Station: P26Event #: 93Ship: TULLYUTC Date (dd mmm yyyy): 27 Aug 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken			Oxygen Titrations			Comments	
			Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Flask Serial #	Value mL · L ⁻¹			
1		497	30	☒			✓		✓✓		✓✓	
2		498	20	☒			✓		✓✓		✓✓	
3		499	10	☒			✓		✓✓		✓✓	
4		500	5	☒			✓		✓✓	✓✓	✓✓	
5		501	0	☒			✓		✓✓		✓✓	
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Watchkeeper(s): SRBottom Depth: 4253 mTransmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1031	0331
Bottom	1032	0332
End	1038	0338

Positional Information

Start
Lat: 50 ° 0.03 N
Lon: 145 ° 0.01 WBottom
Lat: 50 ° 0.01 N
Lon: 145 ° 0.01 WEnd
Lat: 49 ° 59.99 N
Lon: 145 ° 0.03 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹Std Value: _____ mL · L⁻¹

*Date Run: ____/____/____

Analyst: _____

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

1829310112

⑦ ONAC 4 + UBC

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14 Station: P26

Event #: 97

Ship: TULLY

UTC Date (dd|mmm|yyyy): 27 Aug 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken			Oxygen Titrations					Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Flask Serial #	Value mL · L ⁻¹				
1		502	1000	✓									
2		503	800	✓									
3		504	400	✓									
4													
5													
6													
7													
8		505	1000	✓			✓	✓					
9		506	500	✓			✓	✓					
10		507	150	✓			✓	✓					
11		508	50	✓			✓	✓					
12		509	5	✓			✓	✓					
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													

Watchkeeper(s): SR

Bottom Depth: 4248 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1704	1004
Bottom	1722	1022
End	1750	1050

Positional Information

Start
Lat: 49 ° 59.99 N
Lon: 145 ° 0.00 WBottom
Lat: 50 ° 0.00 N
Lon: 144 ° 59.99 WEnd
Lat: 49 ° 59.97 N
Lon: 145 ° 0.01 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹Std Value: _____ mL · L⁻¹

*Date Run: ____/____/____

Analyst: _____

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

(1200)

t = 0

Winds: 15-20 VARIABLE

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14 Station: DDC-60

Event #: 98

Ship: TULLY

UTC Date (dd|mmm|yyyy): 27 | 08 | 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy DMS	Nut	Sal phyto	PMSP t-d	CHL	HPLC	FLM	WGA	RNA	DNA	Flask Serial #	Value mL · L ⁻¹	
1	1	534		✓ 20	✓✓	✓		✓✓	✓✓	✓✓							
2	2	535		✓ 20							✓	✓	✓	✓			
3	3	536		✓ 5							✓	✓	✓	✓			
4	4	537		✓ 5	✓✓	✓	✓	✓✓	✓✓	✓✓							
5																	
6																	
7																	
8																	
9																	
10																	
11																	
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14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): H.M.

Bottom Depth: 4253 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1905	1205
Bottom	1909	1209
End	1914	1214

Positional Information

Start
Lat: 50 ° 00.09 N
Lon: 144 ° 59.85 W

Bottom
Lat: 50 ° 00.09 N
Lon: 144 ° 59.84 W

End
Lat: 50 ° 00.05 N
Lon: 144 ° 59.83 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: 2010-14 Station: DDC-62 Event #: 100 Ship: TULLY UTC Date (dd|mmm|yyyy): 27|09|10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken							Oxygen Titrations		Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy DMSP	Nut	Sal	DMSP 6-1	CHL			Flask Serial #	Value mL · L ⁻¹	
1		538	20	☒	☒	☒		☒	☒					
2		539	5	☒	☒	☒		☒	☒					
3														
4														
5														
6														
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9														
10														
11														
12														
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14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: 4253 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	2102	1402
Bottom	2105	1405
End	2109	1409

Positional Information

Start Lat: 49 ° 59.88 N
Lon: 144 ° 59.25 W

Bottom Lat: 49 ° 59.82 N
Lon: 144 ° 59.22 W

End Lat: 49 ° 59.83 N
Lon: 144 ° 59.22 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

⑧ Veronica's

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14 Station: P26 Event #: 101 Ship: TULLY UTC Date (dd|mmm|yyyy): 27|08|10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	pH	Th	P _o			Flask Serial #	Value mL · L ⁻¹	
1		510	500	✓						✓					
2		511	500	✓					✓						
3		512	400	✓						✓					
4		513	300	✓					✓						
5		514	300	✓						✓					
6		515	200	✓					✓						
7		516	200	✓						✓					
8		517	150	✓					✓						
9		518	150	✓						✓					
10		519	100	✓					✓						
11		520	100	✓						✓					
12		521	75	✓				✓	✓						
13		522	75	✓						✓					
14		523	50	✓				✓	✓						
15		524	50*	✓						✓					
16		525	30	✓				✓	✓						
17		526	30	✓						✓					
18		527	20	✓				✓	✓						
19		528	20	✓						✓					
20		529	10	✓				✓	✓						
21		530	10	✓						✓					
22		531	5	✓				✓	✓						
23		532	DCM	✓	35					✓					
24		533	DCM	✓	35			✓	✓						

Watchkeeper(s): H.M.

Bottom Depth: 4253 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2130	1430
Bottom	2139	1439
End	2204	1504

Positional Information

Start	Lat: <u>49 ° 59.91</u>	N
	Lon: <u>144 ° 59.67</u>	W

Bottom

Bottom	Lat: <u>49 ° 59.92</u>	N
	Lon: <u>144 ° 59.73</u>	W

End

End	Lat: <u>49 ° 59.82</u>	N
	Lon: <u>144 ° 59.84</u>	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

30 + 75

(1600)

t=4

winds: 12 Kts

Dir: 295° (LATE BY 10min)

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14

Station: DDC-t4

Event #: 102

Ship: TULLY

UTC Date (dd|mmm|yyyy): 27 | 08 | 10

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy DMS	Nut	Sal	Chl a	NH ₄	DHSP t	DHSP d				
1	540			20	☒	☒	☒		☒		☒	☒				
2	541			5	☒	☒	☒		☒		☒	☒				
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): H.M.

Bottom Depth: 4235 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	2303	1603
Bottom	2306	1606
End	2310	1610

Positional Information

Start Lat: 50 ° 00 . 13 N
Lon: 144 ° 59 . 74 W

Bottom Lat: 50 ° 00 12 N
Lon: 144 ° 59 75 W

End Lat: 50 ° 00 10 N
Lon: 144 ° 59 77 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: 2010-14 Station: DDC-E6 Event #: 103 Ship: TULLY UTC Date (dd|mmm|yyyy): 28 | 08 | 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed ☒ Pressure	DMS DMS	Nut	Sal Sal	DMS DMS	CHL	HPCL	FCM	NOA	PNA	DNA	Flask Serial #	Value mL · L ⁻¹	
1		542	20	☒		✓	✓		✓	✓	✓						
2		543	20	☒							✓	✓	✓	✓			
3		544	5	☒							✓	✓	✓	✓			
4		545	5	☒		✓	✓	✓	✓	✓							
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): H.M.Bottom Depth: 4253 mTransmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0105	1805
Bottom	0109	1809
End	0114	1814

Positional Information

Start
Lat: 50 ° 00.62 N
Lon: 145 ° 00.11 WBottom
Lat: 50 ° 00.61 N
Lon: 145 ° 00.14 WEnd
Lat: 50 ° 00.62 N
Lon: 145 ° 00.10 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹Std Value: _____ mL · L⁻¹

*Date Run: ____/____/____

Analyst: _____

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

(2000)

t = 8 winds: 15 Kts Dir: 300°

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14Station: DDC-68Event #: 105Ship: TULLYUTC Date (dd|mmm|yyyy): 28 | 08 | 10

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy DMS	Nut	Sal	Chl a	NH ₄	DHSP	DHSP				
1	546			20	☒	✓	✓		✓		✓	✓				
2	547			5		✓	✓		✓		✓	✓				
3																
4																
5																
6																
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23																
24																

Watchkeeper(s): H.M.Bottom Depth: 4251 mTransmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0309	2009
Bottom	0312	20
End	0316	20

Positional Information

Start
Lat: 50 ° 00 51 N
Lon: 144 ° 59.38 WBottom
Lat: 50 ° 00.50 N
Lon: 144 ° 59.36 WEnd
Lat: 50 ° 00.49 N
Lon: 144 ° 59.36 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹Std Value: _____ mL · L⁻¹

*Date Run: ____ | ____ | ____

Analyst: _____

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

(2200)

t=10

winds= 16 knt

Dir: 300°

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14Station: DDC-t10Event #: 106Ship: TULLYUTC Date (dd|mmm|yyyy): 28 | 08 | 10

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy DMS	Nut	Sal	Chl a	NH ₄	DMSp	DMSp				
1	548			20	☒	✓	✓		✓		✓	✓				
2	549			5	☒	✓	✓		✓		✓	✓				
3																
4																
5																
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24																

Watchkeeper(s): H.M.Bottom Depth: 4250 mTransmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0500	2200
Bottom	0504	2204
End	0509	2209

Positional Information

Start

Lat: 50 ° 00.21 N

Lon: 144 ° 59.12 W



Bottom

Lat: 50 ° 00.15 N

Lon: 144 ° 59.14 W



End

Lat: 50 ° 00.14 N

Lon: 144 ° 59.16 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

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy DMS	Nut ✓	Sal phyto	DMSD t-d	CITC	HPLC	FCM	WGA	RNA	DNA	Flask Serial #	Value mL • L ⁻¹	
1		550	20	✓	✓✓		✓	✓✓	✓✓	✓✓							
2		551	20	✓							✓	✓	✓	✓			
3		552	5	✓							✓	✓	✓	✓			
4		553	5	✓	✓✓	✓	✓	✓✓	✓✓	✓✓							
5																	
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24																	

Watchkeeper(s): SR

Bottom Depth: 4250 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0709	0009
Bottom	0712	0012
End	0717	0017

Positional Information		
Start	Lat:	49 ° 59.83 N
	Lon:	144 ° 59.17 W
Bottom	Lat:	49 ° 59.85 N
	Lon:	144 ° 59.16 W
End	Lat:	49 ° 59.82 N
	Lon:	144 ° 59.16 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

(0200)

t = 14

Winds: NW @ 15

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14Station: DDC-t14Event #: 108Ship: TullyUTC Date (dd|mmm|yyyy): 28 | Aug | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken											Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy DMS	Nut	Sal	Chl a	NH ₄	DMS t-d						
1	554			20	☒	✓	✓		✓		✓						
2	555			5	☒	✓	✓		✓		✓						
3																	
4																	
5																	
6																	
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24																	

Watchkeeper(s): SRBottom Depth: 4250 m

Transmisso Cleaned: Y / (N)

Time	UTC	Local
Start	0901	0201
Bottom	0904	0204
End	0909	0209

Positional Information

Start Lat: 50 ° 0.06 N
Lon: 144 ° 59.11 W

Bottom Lat: 50 ° 0.03 N
Lon: 144 ° 59.13 W

End Lat: 50 ° 0.06 N
Lon: 144 ° 59.10 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

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed √ Pressure	Oxy DMS	Nut	Sal	Chl a	NH ₄	DMSO t-2					
1	556			20		✓	✓		✓		✓					
2	557			5		✓	✓		✓		✓					
3																
4																
5																
6																
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Watchkeeper(s): SR

Bottom Depth: 3949 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1101	0401
Bottom	1104	0404
End	1109	0409

Positional Information

Start Lat: 50 ° 0.19 N
Lon: 144 ° 58.70 W

Bottom Lat: 50 ° 0.18 N
Lon: 144 ° 58.70 W

End Lat: 50 ° 0.18 N
Lon: 144 ° 58.75 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

(0600)

t = 18

winds: NW 15 knts

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14 Station: DDC-t18Event #: 111Ship: TULLYUTC Date (dd:mmm:yyyy): 28 Aug 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy DMS	Nut	Sat phyto	DMS t-d	CHL	HPLC	FCM	WGA	RNA	DNA	Flask Serial #	Value mL · L ⁻¹	
1		558	20	☒		✓	✓	✓	✓	✓							
2		559	20	☒							✓	✓	✓	✓			
3		560	5	☒							✓	✓	✓	✓			
4		561	5	☒		✓	✓	✓	✓	✓							
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24																	

Watchkeeper(s): 502Bottom Depth: 3950 mTransmisso Cleaned: (Y) I N

Time	UTC	Local
Start	1257	0557
Bottom	1300	0600
End	1305	0605

Positional Information

Start
 Lat: 49° 59.90 N
 Lon: 144° 58.37 W

Bottom
 Lat: 49° 59.87 N
 Lon: 144° 58.40 W

End
 Lat: 49° 59.78 N
 Lon: 144° 58.41 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹Std Value: _____ mL · L⁻¹

*Date Run: _____

Analyst: _____

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

(0800)

t=20 winds: NW 15 knots

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14

Station: DDC-t20

Event #: 112

Ship: TULLY

UTC Date (dd|mmm|yyyy): 28 | Aug | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy DMS	Nut	Sal	Chl a	NH ₄	DMS End					
1	562			20	☒	✓	✓		✓		✓					
2	563			5	☒	✓	✓		✓		✓					
3	9562			30	☒											
4	9563			10	☒											
5																
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Watchkeeper(s): STR

Bottom Depth: 4270 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1503	0803
Bottom	1507	0807
End	1515	0815

Positional Information

Start	Lat: 49 ° 59.50	N
	Lon: 144 ° 58.46	W
Bottom	Lat: 49 ° 59.48	N
	Lon: 144 ° 58.46	W
End	Lat: 49 ° 59.49	N
	Lon: 144 ° 58.41	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

(1000)

t = 22

winds: NW @ 17 knts

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14Station: DDC-t22Event #: 113Ship: TULLYUTC Date (dd|mmm|yyyy): 28 | Aug | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation			Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒	Pressure	Oxy Dns	Nut	Sal	Chl a	NH ₄	DMSP E-J					
1	564			20			✓	✓		✓		✓					
2	565			5			✓	✓		✓		✓					
3																	
4																	
5																	
6																	
7																	
8	576			20													
9	577			20													
10	578			20													
11	579			20													
12	580			20													
13	581			20													
14	582			20													
15	583			20													
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): SRBottom Depth: 4206 mTransmisso Cleaned: (Y) / N

	UTC	Local
Start	1659	0959
Bottom	1701	1001
End	1707	

Positional Information

Start
Lat: 49 ° 58.92 N
Lon: 144 ° 58.70 WBottom
Lat: 49 ° 58.91 N
Lon: 144 ° 58.73 WEnd
Lat: 49 ° 58.96 N
Lon: 144 ° 58.75 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

(1200)

C = 24

WINDS - 19 kts DIR - 300°

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14 Station: DDC-L24

Event #: 114

Ship: TULLY

UTC Date (dd|mmm|yyyy): 29 | 09 | 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy DMS	Nut	-Sal phyto	DMSO E-J	CHL	HPCL	FCM	WGA	RNA	DNA	Flask Serial #	Value mL · L ⁻¹	
1		566	20	☒		✓	✓	✓	✓	✓							
2		567	20	☒							✓	✓	✓	✓			
3		568	5								✓	✓	✓	✓			
4		569	5			✓	✓	✓	✓	✓							
5																	
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22																	
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24																	

Watchkeeper(s): H.M.

Bottom Depth: 4249 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1859	1159
Bottom	1903	1203
End	1908	1208

Positional Information

Start
Lat: 49 ° 58.87 N
Lon: 144 ° 59.17 WBottom
Lat: 49 ° 58.92 N
Lon: 144 ° 59.14 WEnd
Lat: 49 ° 58.90 N
Lon: 144 ° 59.08 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹Std Value: _____ mL · L⁻¹

*Date Run: ____ | ____ | ____

Analyst: _____

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

(1400)

t = 26

winds: 18 kts

Dir - 290°

Water Properties Group

Rosette Log

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

Cruise ID: 2010-14Station: DPC-t26Event #: 115Ship: TULLYUTC Date (dd|mmm|yyyy): 28 | 08 | 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	DMSP					
1	570			20	✓	✓	✓		✓		✓					
2	571			5	✓	✓	✓		✓		✓					
3																
4																
5																
6																
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Watchkeeper(s): H.M.Bottom Depth: 4215 mTransmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2101	1401
Bottom	2105	1405
End	2109	1409

Positional Information

Start
Lat: 49 ° 59.62 N
Lon: 144 ° 59.55 WBottom
Lat: 49 ° 59.62 N
Lon: 144 ° 59.54 WEnd
Lat: 49 ° 59.63 N
Lon: 144 ° 59.53 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹Std Value: _____ mL · L⁻¹

*Date Run: ____ | ____ | ____

Analyst: _____

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

(1600)

C-28

Winds: 1 m/s DIR: 275°

✓

Water Properties Group

Rosette Log

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

572 → 1
575 → 2

Cruise ID: 2010-14 Station: DDC-E 28 Event #: 116 Ship: TULLY UTC Date (dd mmm/yyyy): 28 08 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy DMS	Nut	Sat phyk	DMS 6-7	CHL	HPCL	FCM	WGA	RNA	DNA	Flask Serial #	Value mL · L ⁻¹	
1	1	572	20		✓	✓	✓	✓	✓	✓							
2	3	573	20								✓	✓	✓	✓			
3		574	5								✓	✓	✓	✓			
4		575	5		✓	✓	✓	✓	✓	✓							
5																	
6	2		20														
7	4	584	5														
8																	
9																	
10		584		✓	50												
11		585		✓	50												
12		586		✓	50												
13		587		✓	50												
14		588		✓	50												
15		589		✓	50												
16		590		✓	50												
17		591		✓	50												
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): H.M.

Bottom Depth: 4251 m

Transmisso Cleaned: (Y) 1 N

Time	UTC	Local
Start	2258	1558
Bottom	2302	1602
End	2309	1609

Positional Information

Start
Lat: 50 ° 00.36 N
Lon: 144 ° 59.05 WBottom
Lat: 50 ° 00.33 N
Lon: 144 ° 59.05 WEnd
Lat: 50 ° 00.28 N
Lon: 144 ° 59.02 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹Std 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: 2010-14 Station: P35 Event #: 118 Ship: TULLY UTC Date (dd|mmm|yyyy): 29|09|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	AT ₄ HPLC	DIC	pH					
1	592			2000	/			/			✓✓						
2	593			2000	/						✓✓						
3	594				/						✓✓						
4	595				/						✓✓						
5	596				/						✓✓						
6	597				/							✓✓					
7	598				/							✓✓					
8	599				/							✓✓					
9	600				/							✓✓					
10	601				/							✓✓					
11	602				✓												
12	603				/												
13	604				/												
14	605				/												
15	606				/												
16	607				✓												
17	608				/												
18	609				/												
19	610				/												
20	611				/												
21	612			2000	/												
22	613			2000	/												
23	614			CHK MAX	✓ 35		✓		✓✓	✓✓							
24	615			5	✓		✓		✓✓	✓✓							

Watchkeeper(s): H.m

Bottom Depth: 4078 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0221	1921
Bottom	0256	1956
End	0331	2031

Positional Information

Start Lat: 49 ° 59.98 N
Lon: 144 ° 18.12 W

Bottom Lat: 49 ° 59.92 N
Lon: 144 ° 18.12 W

End Lat: 49 ° 59.94 N
Lon: 144 ° 18.17 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: 2010-14 Station: P25 Event #: 119 Ship: TULLY UTC Date (dd|mmm|yyyy): 29 | 08 | 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	NH₄ HPLC						
1	616			< MAX	☒ 2.9m		✓		✓✓	✓✓						
2	617			5	☒		✓	✓	✓✓	✓✓						
3																
4																
5																
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23																
24																

Watchkeeper(s): H.M.

Bottom Depth: m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0647	2347
Bottom	0726	0026
End	0802	0902

Positional Information
Start
Lat: 49 ° 59.77 N
Lon: 143 ° 36.36 W

Bottom
Lat: 49 ° 59.97 N
Lon: 143 ° 36.36 W

End
Lat: 49 ° 59.98 N
Lon: 143 ° 36.47 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: 2010-14 Station: P24 Event #: 120 Ship: Tully UTC Date (dd|mmm|yyyy): 29 | Aug | 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	NH₃ HPLC							
1	618			Chl max	☒ 38		/		/	☒							
2	619			5	☒		/	/	/	/							
3																	
4																	
5																	
6																	
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19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): SR

Bottom Depth: 3988 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	1211	0511
Bottom	1247	0547
End	1325	0625

Positional Information
Start
Lat: 49° 50.16 N
Lon: 142° 40.07 W

Bottom
Lat: 49° 50.09 N
Lon: 142° 40.16 W

End
Lat: 49° 50.27 N
Lon: 142° 40.22 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: 2010-14 Station: P23 Event #: 122 (121 was the downcast) Ship: Tully UTC Date (dd|mmm|yyyy): 29 | Aug | 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	NH₄ HPLC	pH						
1	620			2000	☒							X					pH bottles for Glenn
2	621			CHI MAX	☒ 37		☒		///	///							
3	622			5			☒	☒	///	///							
4	623			5								X					pH for Glenn
5																	
6																	
7																	
8																	
9																	
10																	
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22																	
23																	
24																	

Watchkeeper(s): SR

Bottom Depth: 4053 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1818	1118
Bottom		
End	1908	1208

Positional Information
Start
Lat: 49 ° 45.97 N
Lon: 141 ° 40.05 W

Bottom
~~Lat: 49 ° N~~
~~Lon: 141 ° W~~

End
Lat: 49 ° 46.01 N
Lon: 141 ° 40.11 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: 2010-14 Station: P 22 Event #: 123 Ship: TULLY UTC Date (dd|mmm|yyyy): 29|10|09 16

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 HPLC						
1	624			CHL MAT	✓ 40		✓		✓	✓						
2	625			5	✓		✓	✓	✓	✓						
3																
4																
5																
6																
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24																

Watchkeeper(s): W.M.

Bottom Depth: 3940 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2325	1625
Bottom	2359	1659
End	0035	1735

Positional Information
Start Lat: 49 ° 41. 99 N
Lon: 140 ° 40. 05 W

Bottom Lat: 49 ° 41. 98 N
Lon: 140 ° 40. 16 W

End Lat: 49 ° 41. 91 N
Lon: 140 ° 40. 32 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: 2010-14 Station: P21 Event #: 124 Ship: TULLY UTC Date (dd|mmm|yyyy): 30 | 08 | 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	HPLC			
1	626			CHL MAX	☒ 35		☒		☒		☒			
2	627			5	☒		☒	☒	☒		☒			
3														
4														
5	no slr			5	☒									Veronica
6														
7														
8														
9	no slr			5	☒									Veronica
10														
11														
12														
13														
14														
15	no slr			5	☒									Veronica
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: 3957 m

Transmisso Cleaned: ☒ Y / N

Time	UTC	Local
Start	0457	2157
Bottom	0531	2231
End	0606	2306

Positional Information

Start Lat: 49 ° 37.89 N
Lon: 139 ° 40.48 W

Bottom Lat: 49 ° 37.91 N
Lon: 139 ° 40.45 W

End Lat: 49 ° 37.86 N
Lon: 139 ° 40.40 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: 2010-14 Station: P 15 Event #: 125 Ship: Tully UTC Date (dd|mmm|yyyy): 31 | 08 | 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 HPLC				
1	628			CAL MAX	☒ 40m		☒		☒	☒				
2	629			5	☒		☒	☒	☒	☒				
3														
4														
5														
6														
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22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: 3407 m
Transmisso Cleaned: 5 / N

Time	UTC	Local
Start	0613	2313
Bottom	0649	2349
End	0725	0025

Positional Information
Start Lat: 49 ° 11.89 N
Lon: 133 ° 39.98 W

Bottom Lat: 49 ° 11.97 N
Lon: 133 ° 39.80 W

End Lat: 49 ° 11.97 N
Lon: 133 ° 40.01 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: 2010-14

Station: 714

Event #: 126

Ship: Tully

UTC Date (dd|mmm|yyyy): 31 | Aug | 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 HPLC				
1	630			chl max	✓ 38		xx		xx	xx				
2	631			5	✓		xx	x	xx	xx				
3														
4														
5														
6														
7														
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24														

Watchkeeper(s): SR

Bottom Depth: 3317 m

Transmisso Cleaned: ☒ Y ☐ N

	UTC	Local
Start	1145	0545
Bottom	1230	0531
End	1315	0615

Positional Information

Start
 Lat: 49 ° 7.44 N
 Lon: 132 ° 39.99 W

Bottom
 Lat: 49 ° 7.40 N
 Lon: 132 ° 40.03 W

End
 Lat: 49 ° 7.37 N
 Lon: 132 ° 40.04 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: 2010-14 Station: P13 Event #: 127 Ship: Tully UTC Date (dd|mmm|yyyy): 31 | Aug | 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	632			chl max	✓ 39		x		xx	xx						
2	633			5	✓		x	x	xx	xx						
3																
4																
5																
6																
7																
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24																

Watchkeeper(s): SR

Bottom Depth: 3154 m

Transmisso Cleaned: Y N

Time	UTC	Local
Start	1735	1035
Bottom	1811	1111
End	1849	1149

Positional Information
Start
Lat: 49 ° 2.63 N
Lon: 131 ° 40.04 W

Bottom
Lat: 49 ° 2.63 N
Lon: 131 ° 40.04 W

End
Lat: 49 ° 2.61 N
Lon: 131 ° 39.99 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: 2010-14 Station: P 12 Event #: 128 Ship: TULLY UTC Date (dd|mmm|yyyy): 31 | 08 | 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 HPLC							
1	634			CH MAY	✓ 32		✓		✓	✓							
2	635			5m	✓		✓	✓	✓	✓							
3																	
4																	
5																	
6																	
7																	
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24																	

Watchkeeper(s): H.M.

Bottom Depth: 3239 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2302	1602
Bottom	2336	1636
End	0010	1710

Positional Information

Start Lat: 48 ° 58.14 N
Lon: 130 ° 40.01 W

Bottom Lat: 48 ° 58.20 N
Lon: 130 ° 39.95 W

End Lat: 48 ° 58.20 N
Lon: 130 ° 40.00 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: 2010-14 Station: P2 Event #: 129 Ship: TULLY UTC Date (dd|mmm|yyyy): 1 | 09 | 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	pH			
1	636			5m	☒						24			
2														
3														
4														
5														
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16														
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18														
19														
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21														
22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1919	1219
Bottom	1922	1222
End	1925	1225

Positional Information
Start Lat: 48 ° 36.06 N
Lon: 126 ° 00.06 W

Bottom Lat: 48 ° 36.08 N
Lon: 126 ° 00.03 W

End Lat: 48 ° 36.10 N
Lon: 125 ° 59.97 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