

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: SI03Event #: 1Ship: TULLYUTC Date (dd|mmm|yyyy): 26 | 05 | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	CHL	NH4				Flask Serial #	Value mL · L ⁻¹	
1	1	1	Bot-10	✓	✓	✓							3126	0	Red H ₂ S present
2	2	2	200	✓	✓	✓	✓						3180	0	H ₂ S present
3	3	3	175	✓	✓	✓	✓						2059	0	H ₂ S present
4	4	4	150	✓	✓	✓	✓						3019	0	H ₂ S present
5	5	5	125	✓	✓	✓	✓						3067	0.031	
6	6	6	100	✓	✓	✓	✓						3201	—	bubble on lens
7	7	7	75	✓	✓	✓	✓						3190	3.714	
8	8	8	50	✓	✓	✓	✓						2061	4.570	
9	9	9	30	✓	✓	✓	✓						3113	5.176	-bad curve
10	10	10	20	✓	✓	✓	✓	✓	✓				3047	5.300	
11	11	11	10	✓	✓	✓	✓	✓	✓				3090	5.547	
12	12	12	5	✓	✓	✓	✓	✓	✓				2068	6.185	
13															
14															
15															
16	3	3	175										2049	0	
17	7	7	75										2085	3.720	
18	10	10	20										2047	5.291	
19															
20	loop	5											3151	7.501	SI station loop
21															
22															
23															
24															

Watchkeeper(s):
MR/EP/LA/KMBottom Depth: 226 mTransmisso Cleaned: (Y) N

Time	UTC	Local
Start	0517	2217
Bottom	0522	2222
End	0538	2238

Positional Information
Start
Lat: 48 ° 35.59 N
Lon: 123 ° 30.02 WBottom
Lat: 48 ° 35.59 N
Lon: 123 ° 30.03 WEnd
Lat: 48 ° 35.59 N
Lon: 123 ° 30.06 WOxygen Info For This Cast
Blank Value: 0.0033 mL · L⁻¹
Std Value: 0.7240 mL · L⁻¹
*Date Run: 25 | 05 | 10
Analyst: N²

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

Samples: N²/MR/SR

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LBO1 Event #: 2 Ship: TULLY UTC Date (dd|mmm|yyyy): 26 | 05 | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken					Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	CHL	NH4	Flask Serial #	Value mL · L ⁻¹	
1	1	13	Bot 10	✓ 20	✓	✓				3198	5.837	
2	2	14	20	✓	✓	✓	✓	✓	✓	2020	5.850	
3	3	15	10	✓	✓	✓	✓	✓	✓	3121	6.221	
4	4	16	5	✓	✓	✓	✓	✓	✓	3188	6.430	
5												
6												
7	3	15								3161	6.218	
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Watchkeeper(s): A TEAM

Bottom Depth: 32 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	1653	0953
Bottom	1655	0955
End	1659	0959

Positional Information
Start Lat: 48 ° 40.45 N
Lon: 124 ° 59.49 W

Bottom Lat: 48 ° 40.46 N
Lon: 124 ° 59.50 W

End Lat: 48 ° 40.51 N
Lon: 124 ° 59.54 W

Oxygen Info For This Cast
Blank Value: 0.0033 mL · L⁻¹
Std Value: 0.7240 mL · L⁻¹
*Date Run: 25 | 05 | 10
Analyst: N2

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

Samplers: N2 / MR

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LB02 Event #: 3 Ship: TULLY UTC Date (dd|mmm|yyyy): 26 | MAY | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken							Oxygen Titrations		Comments			
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	CHL	NH4						Flask Serial #	Value mL · L ⁻¹	
1	1	17	Bot-10	✓	47	✓✓	✓✓								1317	5.205	
2	2	18	30	✓		✓	✓	✓							3207	5.405	
3	3	19	20	✓		✓	✓		✓✓	✓✓					3184	5.717	
4	4	20	10	✓		✓	✓		✓✓	✓✓					3069	6.245	
5	5	21	5	✓		✓	✓	✓	✓✓	✓✓					3108	6.575	
6																	
7																	
8	1	17			47										2065	5.195	
9																	
10		loop			5										3124	6.713	LB02 loop
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s):
A - TEAMBottom Depth: 57 mTransmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1726	1026
Bottom	1728	1028
End	1734	1034

Positional Information

Start
Lat: 48 ° 39.00 N
Lon: 125 ° 02.37 WBottom
Lat: 48 ° 39.01 N
Lon: 125 ° 02.35 WEnd
Lat: 48 ° 39.00 N
Lon: 125 ° 02.34 W

Oxygen Info For This Cast

Blank Value: 0.0033 mL · L⁻¹
Std Value: 0.7240 mL · L⁻¹
*Date Run: 25.05.10
Analyst: NZ

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

Samples: NZ

CMKJ

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LB04 Event #: 5 Ship: TULLY UTC Date (dd|mmm|yyyy): 26 | MAY | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments		
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	CHL	NH4					Flask Serial #		Value mL • L ⁻¹	
1	1	22	Bot-10	✓	102	✓	✓								1485	3.756	
2	2	23	75	✓	75			✓							2040	4.535	
3	3	24	50	✓	50										2073	5.408	vent open
4	4	25	30	✓	31										2082	5.962	
5	5	26	20	✓	20				✓✓	✓✓					2019	6.300	- low trans "b"
6	6	27	10	✓	10				✓✓	✓✓					2055	6.688	
7	7	28	5	✓	5	✓✓	✓✓	✓	✓✓	✓✓					2015	6.843	
8																	
9	7	28	5												1489	6.851	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): A-TEAM

Bottom Depth: 113 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1839	1139
Bottom	1842	1142
End	1850	1150

Positional Information

Start

Lat: 48 ° 35.69 N

Lon: 125 ° 08 70 W

Bottom

Lat: 48 ° 35.70 N

Lon: 125 ° 08 70 W

End

Lat: 48 ° 35.71 N

Lon: 125 ° 08.70 W

Oxygen Info For This Cast

Blank Value: 0.0033 mL

Std Value: 0.7240 mL

*Date Run: 25 MAY 10

Analyst: N2

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

Samplers: CS/N2

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LB06 Event #: 9 Ship: TULLY UTC Date (dd|mmm|yyyy): 26 | MAY | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	chl	NH4				Flask Serial #	Value mL · L ⁻¹	
1	1	29	Bot-10	✓ 105	✓	✓	✓						690	3.116	
2	2	30	75	✓ 75	✓	✓	✓						2027	4.061	-change # & flask ID
3	3	31	50	✓ 50	✓	✓							3182	4.952	open vent - leaking
4	4	32	30	✓ 30	✓	✓							1491	6.017	
5	5	33	20	✓ 20	✓	✓		✓✓	✓✓				2088	6.399	
6	6	34	10	✓ 10	✓	✓	✓	✓✓	✓✓				3160	6.672	-change # & flask ID
7	7	35	5	✓ 5	✓	✓	✓	✓✓	✓✓				1389	6.733	
8															
9															
10	4	32	30										1393	6.019	
11															
12	99	loop 5											3043	6.698	LB06 loop
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): C. STARS

Bottom Depth: 115 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2135	
Bottom	2138	
End	2146	

Positional Information
Start
Lat: 48 ° 32.17 N
Lon: 125 ° 15.47 W

Bottom
Lat: 48 ° 32.21 N
Lon: 125 ° 15.46 W

End
Lat: 48 ° 32.28 N
Lon: 125 ° 15.46 W

Oxygen Info For This Cast
Blank Value: 0.0033 mL · L⁻¹
Std Value: 0.7240 mL · L⁻¹
*Date Run: 25 | 05 | 10
Analyst: NZ

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

Samplers: NZ

Water Properties Group

Rosette Log

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

Cruise ID: 20012 Station: LB08 Event #: 22 Ship: TULLY UTC Date (dd|mmm|yyyy): 27 | MAY | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	CHL	NH4				Flask Serial #	Value mL · L ⁻¹	
1	1	36	110	✓	130	✓	✓						3126	2.360	
2	2	37	125	✓		✓	✓						3180	2.452	
3	3	38	100	✓			✓						3019	2.698	
4	4	39	75	✓									3113	3.782	
5	5	40	50	✓									3067	5.321	
6	6	41	30	✓		✓							3201	6.498	
7	7	42	20	✓				✓	✓				3190	6.730	
8	8	43	10	✓				✓	✓				2085	6.811	
9	9	44	5	✓			✓	✓	✓				2061	6.790	
10															
11															
12	2	37	125										2059	2.450	-wrong depth on oxy
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): A-TEAM

Bottom Depth: 145 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0603	2303
Bottom	0607	2307
End	0617	2317

Positional Information
Start Lat: 48 ° 25.33 N
Lon: 125 ° 28.60 W

Bottom Lat: 48 ° 25.28 N
Lon: 125 ° 28.52 W

End Lat: 48 ° 25.28 N
Lon: 125 ° 28.65 W

Oxygen Info For This Cast
Blank Value: 0.0023 mL
Std Value: 0.7223 mL
*Date Run: 27 MAY 10
Analyst: N2

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

SAMPLE - MAR 10

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: L B09Event #: 24Ship: TULLYUTC Date (dd|mmm|yyyy): 21 May 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken							Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	CHL	NH4			Flask Serial #	Value mL · L ⁻¹	
1	1	45	Bot-10	✓ 140	✓	✓						2049	2.109	
2	2	46	100	✓ 100	✓		✓					3047	2.642	
3	3	47	75	✓ 75	✓		✓					2047	3.479	
4	4	48	50	✓ 50	✓							3090	5.606	
5	5	49	30	✓ 30	✓	✓						2068	6.350	
6	6	50	20	✓ 19	✓			✓✓	✓✓			3151	6.673	
7	7	51	10	✓ 10	✓			✓✓	✓✓			3198	6.767	
8	8	52	5	✓ 5	✓	✓	✓	✓✓	✓✓			3121	6.822	
9														
10	7	51	10									2020	6.774	
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s):
C-STARSBottom Depth: 152 mTransmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0720	0020
Bottom	0733	0033
End	0746	00

Positional Information
Start
Lat: 48 ° 21.96 N
Lon: 125 ° 34.80 WBottom
Lat: 48 ° 21.97 N
Lon: 125 ° 34.79 WEnd
Lat: 48 ° 21.97 N
Lon: 125 ° 34.78 WOxygen Info For This Cast
Blank Value: 0.0023 mL · L⁻¹
Std Value: 0.7223 mL · L⁻¹
*Date Run: 27 May 10
Analyst: N2

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

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LB11 Event #: 26 Ship: TULW UTC Date (dd|mmm|yyyy): 27 MAY 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	53	175	✓ 195	✓	✓		1317	2.167	
2	2	54	175	✓ 174			✓	2065	2.324	
3	3	55	150	✓ 150				3207	2.561	
4	4	56	125	✓ 125			✓	3184	3.132	
5	5	57	100	✓ 100				3069	3.708	
6	6	58	75	✓ 75	✓			3108	5.506	
7	7	59	50	✓ 50				1485	6.326	
8	8	60	30	✓ 30				2040	6.515	
9	9	61	20	✓ 20		✓	✓	2073	6.582	
10	10	62	10	✓ 10	✓		✓	2082	6.791	
11	11	63	5	✓ 5			✓	2055	6.792	
12										
13	Loop	Loop	5		✓			3161	6.780	LB11 loop
14										
15	6	58	75					3124	5.498	
16	10	62	10					2019	6.802	
17										
18										
19										
20										
21										
22										
23										
24										

Watchkeeper(s): C-SIMS

Bottom Depth: 195 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0425	0225
Bottom	0429	0229
End	0442	0242

Positional Information
Start
Lat: 48 ° 15.20 N
Lon: 125 ° 47.71 W

Bottom
Lat: 48 ° 15.21 N
Lon: 125 ° 47.72 W

End
Lat: 46 ° 15.23 N
Lon: 125 ° 47.75 W

Oxygen Info For This Cast
Blank Value: 0.0223 mL • L⁻¹
Std Value: 0.7223 mL • L⁻¹
*Date Run: 27 MAY 10
Analyst: N2

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

Sampler: CS

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LB2 Event #: 28 Ship: MLL4 UTC Date (dd|mmm|yyyy): 2010|May|27

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken							Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	chl	NH ₄			Flask Serial #	Value mL • L ⁻¹	
1	1	64	500	✓ 502	✓	✓						3157	0.560	
2	2	65	400				✓					528	0.901	
3	3	66	300				✓					527	1.585	
4	4	67	250									1327	2.090	
5	5	68	200									2056	2.620	
6	6	69	175		✓							1490	2.919	
7	7	70	175											LNSW.
8	8	71	150									3133	3.419	
9	9	72	125									3130	3.851	
10	10	73	100									612	4.148	
11	11	74	75									3116	5.810	
12	12	75	50									3178	6.326	
13	13	76	30									3164	6.641	
14	14	77	20			✓		✓	N			3135	6.743	
15	15	78	10		✓			✓	✓			3084	6.718	
16	16	79	5				✓	✓	✓			1316	6.743	
17														
18	6	69	175									3051	2.910	
19	15	78	10									3028	6.721	
20														
21														
22														
23														
24														

Watchkeeper(s): C. STARKS / B'S KNEES

Bottom Depth: 512 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	1040	0340
Bottom	1050	0350
End	1113	0413

Positional Information
Start
Lat: 48° 12.91 N
Lon: 125° 51.97 W

Bottom
Lat: 48° 12.95 N
Lon: 125° 52.00 W

End
Lat: 48° 12.99 N
Lon: 125° 52.03 W

Oxygen Info For This Cast
Blank Value: 0.0023 mL • L⁻¹
Std Value: 0.9223 mL • L⁻¹
*Date Run: 27|05|10
Analyst: N2

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

Samplers: SR?

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LB14 Event #: 30 Ship: Tully UTC Date (dd|mmm|yyyy): 2010 May 27

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	DO ₂	NH ₄						Flask Serial #	Value mL • L ⁻¹	
1	1	80	6-10	✓ 1183	✓	✓✓									3187	0.438	
2	2	81	1000	✓ 1000		✓✓	✓								3118	0.294	
3	3	82	750	✓ 750		✓✓	✓								3061	0.300	
4	4	83	500	✓ 499		✓✓✓									2060	0.528	
5	5	84	400	✓ 401		✓✓									2033	0.853	
6	6	85	300	✓ 251		✓									2007	2.326	
7	7	86	250	✓ 200											3107	(2.777)	v. bad anne "d"
8	8	87	200	✓ 175											1384	3.131	
9	9	88	175	✓ 151											1386	3.483	
10	10	89	150	✓ 126		✓									1380	4.219	
11	11	90	125	✓ 100											1373	4.366	
12	12	91	100	✓ 75											1337	6.199	
13	13	92	75	✓ 50											1134	6.566	
14	14	93	50	✓ 30											1335	6.592	
15	15	94	30	✓ 21											631	6.655	
16	16	95	20	✓ 11				✓✓	✓✓						1248	6.716	
17	17	96	10	5	✓		✓	✓✓	✓✓						1404	6.793	
18	18	97	5		✓	✓	✓	✓✓	✓✓								→ NOT CLOSED.
19																	
20	17	96	5												1319	6.790	oxy's not re-shaken / watered
21																	
22																	
23																	
24																	

Watchkeeper(s): SR

Bottom Depth: 1192 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1311	0611
Bottom	1330	0630
End	1356	0656

Positional Information
Start Lat: 48 ° 8.45 N
Lon: 126 ° 0.02 W

Bottom Lat: 48 ° 8.50 N
Lon: 126 ° 0.04 W

End Lat: 48 ° 8.48 N
Lon: 126 ° 0.08 W

Oxygen Info For This Cast
Blank Value: 0.0023 mL • L⁻¹
Std Value: 0.7223 mL • L⁻¹
*Date Run: 27 MAY 10
Analyst: NS

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

Samplers: SR?

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LC12 Event #: 33 Ship: Tully UTC Date (dd|mmm|yyyy): 27 May 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken											Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	CHL								Flask Serial #	Value mL · L ⁻¹	
1	1	100	2000	✓ 200														
2	2	101	2000															
3	3	102																
4	4	103																
5	5	104																
6	6	105	2000															
7	7	106	2000	2000														
8	8	107	5	✓ 5	✓	✓	✓	✓								1326	6.718	
9																		
10	Loop		5													1414	6.689	
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Watchkeeper(s): CSAS

Bottom Depth: 2005 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2030	
Bottom	2107	
End	2140	

Positional Information
Start Lat: 48 ° 15.02 N
Lon: 126 ° 39.98 W

Bottom Lat: 48 ° 15.02 N
Lon: 126 ° 39.99 W

End Lat: 48 ° 14.95 N
Lon: 126 ° 40.00 W

Oxygen Info For This Cast
Blank Value: 0.0023 mL
Std Value: 0.7223 mL
*Date Run: 27 May 10
Analyst: N2

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

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LC 11 Event #: 37 Ship: Tully UTC Date (dd|mmm|yyyy): 28|May|2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	chl a	NH4				Flask Serial #	Value mL • L ⁻¹	
1	1	108	bot -10	✓ 1490	✓	✓							570	0.717	
2		109	1250	✓		✓	✓						1327	0.416	
3		110	1000	✓		✓	✓						1490	0.258	
4		111	750	✓		✓							2056	0.218	
5		112	500	✓		✓							3051	0.608	
6		113	400	✓		✓							3133	0.907	
7		114	300	✓		✓							612	1.487	
8		115	250	✓									3116	1.893	
9		116	200	✓	✓	✓							3130	2.458	-label confusion
10		117	175	✓									3135	2.595	
11		118	150	✓									3084	3.072	
12		119	125	✓									3028	3.198	
13		120	100	✓									1316	4.738	-bad curve "b"
14		121	75	✓									3187	6.093	
15		122	50	✓									3118	6.598	
16		123	30	✓									3061	6.635	
17		124	20	✓	✓			✓	✓				2060	6.671	
18		125	10	✓		✓		✓	✓				2033	6.737	
19		126	5		✓	✓	✓	✓	✓				3107	6.753	
20															
21	9	116	200										3178	2.461	-wrong depth on oxy
22	17	124	20										2007	6.671	
23															
24															

Watchkeeper(s): SR

Bottom Depth: 1445 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0041	541
Bottom	0109	0609
End	0147	0647

Positional Information
Start
Lat: 48 ° 18.71 N
Lon: 126 ° 26.65 W

Bottom
Lat: 48 ° 18.87 N
Lon: 126 ° 26.82 W

End
Lat: 48 ° 18.93 N
Lon: 126 ° 26.66 W

Oxygen Info For This Cast
Blank Value: 0.0023 mL • L⁻¹
Std Value: 0.7223 mL • L⁻¹
*Date Run: 27 MAY 10
Analyst: N2

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

Samplers: SR?

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LC09/A3 Event #: 39 Ship: Tully UTC Date (dd|mmm|yyyy): 28 | MAY | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	chl a	NH4				Flask Serial #	Value mL • L ⁻¹	
1		127	bot-10	✓	600	✓	✓						1317	0.373	
2		128	500	✓		✓	✓	✓					2065	0.588	
3		129	400	✓		✓	✓						3207	0.833	→ LEAKING
4		130	300	✓		✓							3184	1.369	
5		131	250	✓									3069	1.922	
6		132	200	✓									3108	2.334	
7		133	175	✓		✓							3124	2.706	
8		134	150	✓									2040	2.895	
9		135	125	✓									2073	3.440	
10		136	100	✓									2082	4.267	
11		137	75	✓									2019	6.139	
12		138	50	✓		✓							2055	6.474	
13		139	30	✓									3161	6.552	
14		140	20	✓				✓	✓				1498	6.557	
15		141	10	✓				✓	✓				1477	6.815	
16		142	5	✓		✓	✓	✓	✓				668	6.806	
17															
18	7	133	175										1485	2.697	
19															
20															
21															
22															
23															
24															

Watchkeeper(s):
A-TEAMBottom Depth: 614 mTransmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0407	2107
Bottom	0419	2119
End	0441	2141

Positional Information
Start
Lat: 48 ° 25.86 N
Lon: 126 ° 13.71 WBottom
Lat: 48 ° 25.87 N
Lon: 126 ° 13.64 WEnd
Lat: 48 ° 25.85 N
Lon: 126 ° 13.73 WOxygen Info For This Cast
Blank Value: 0.0023 mL • L⁻¹
Std Value: 0.7223 mL • L⁻¹
*Date Run: 27 MAY 10
Analyst: N2

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

SAMPLER: HARIO

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LC08Event #: 43Ship: TULLYUTC Date (dd|mmm|yyyy): 28 | MAY | 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		143	Bot-10	✓ 170	✓	✓		1301	2.342	
2		144	175	✓ 175	✓	✓	✓	1144	2.487	
3		145	150	✓ 150	✓		✓	3181	2.709	
4		146	125	✓ 125	✓			2099	3.140	
5		147	100	✓ 100	✓			1321	4.044	-extra acid squirt
6		148	75	✓ 75	✓			1481	5.838	
7		149	50	✓ 50	✓	✓		2084	6.510	
8		150	30	✓ 30	✓			1180	6.610	
9		151	20	✓ 20	✓		✓✓	1365	6.652	
10		152	10	✓ 10	✓		✓✓	1476	6.804	
11		153	5	✓ 5	✓	✓	✓✓	2086	6.788	
12										
13										
14	9	151	20					1476	6.641	-extra acid squirt
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

Watchkeeper(s): C. STILESBottom Depth: 202 mTransmisso Cleaned: (Y) N

Time	UTC	Local
Start	0742	
Bottom	0746	
End	0759	

Positional Information

Start
Lat: 48 ° 29.30 N
Lon: 126 ° 07.11 WBottom
Lat: 48 ° 29.31 N
Lon: 126 ° 07.12 WEnd
Lat: 48 ° 29.33 N
Lon: 126 ° 07.21 W

Oxygen Info For This Cast

Blank Value: 0.0023 mL · L⁻¹
Std Value: 0.7223 mL · L⁻¹
*Date Run: 27.05.10
Analyst: N2

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

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LCOL Event #: 46 Ship: TULLY UTC Date (dd|mm|yyyy): 28 | MAY | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken					Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	chl	NH ₄	Flask Serial #	Value mL • L ⁻¹	
1	1	154	84m-10	✓ 84	✓	✓				650	3.973	-possible overshoot "b"
2	2	155	75	✓ 75	✓	✓	✓			1406	4.824	
3	3	156	50	✓ 50	✓	✓	✓			1411	5.112	
4	4	157	30	✓ 30	✓	✓				1387	6.464	Bottle 4 opened
5	5	158	20	✓ 20		✓		✓✓	✓✓	1201	6.676	during 2 nd shake
6	6	159	10	✓ 10			✓	✓✓	✓✓	3209	6.685	(dup below)
7	7	160	5	✓ 5			✓	✓✓	✓✓	1407	6.693	
8												
9												
10	4	157	30							1302	6.586	-big air bubble
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Watchkeeper(s): C. STARS

Bottom Depth: 94 m
Transmisso Cleaned: (Y) N

	Time	UTC	Local
Start		10 16	
Bottom		10 18	
End		10 27	

Positional Information
Start
Lat: 48 ° 36.42 N
Lon: 125 ° 53.99 W

Start

Bottom
Lat: 48 ° 36.42 N
Lon: 125 ° 54.01 W

Bottom

End
Lat: 48 ° 36.44 N
Lon: 125 ° 54.02 W

End

Oxygen Info For This Cast
Blank Value: 0.0023 mL • L⁻¹
Std Value: 0.7223 mL • L⁻¹
*Date Run: 28 | 05 | 10
Analyst: N²

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

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LC04 Event #: 50 Ship: Tully UTC Date (dd|mmm|yyyy): 28|May|2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	chl _a	NH ₄				Flask Serial #	Value mL · L ⁻¹	
1		162	150	✓	✓	✓							1460	3.498	bad curve "b"
2		163	125	✓			✓						3194	3.666	
3		164	100	✓			✓						2000	4.020	
4		165	75	✓		✓							2075	4.373	
5		166	50	✓		✓							622	4.714	
6		167	30	✓									1367	5.660	
7		168	20					✓✓	✓✓				657	6.255	
8		169	10					✓✓	✓✓				715	7.124	
9		170	5			✓	✓	✓✓	✓✓				639	7.121	water for Evgeny
10															
11	4	165	75										1174	4.374	
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): SRBottom Depth: 165 mTransmisso Cleaned: (Y) N

Time	UTC	Local
Start	1300	0600
Bottom	1303	0603
End		

Positional Information

Start
Lat: 48 ° 43.44 N
Lon: 125 ° 40.80 WBottom
Lat: 48 ° 43.46 N
Lon: 125 ° 40.82 WEnd
Lat: 48 ° N
Lon: 125 ° W

Oxygen Info For This Cast

Blank Value: 0.0023 mL · ~~✓~~Std Value: 0.7223 mL · ~~✓~~*Date Run: 27 MAY 10Analyst: N2

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

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LCO2 Event #: 52 Ship: Dully UTC Date (dd|mmm|yyyy): 28 May 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken					Oxygen Titrations		Comments		
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	chl a	NH4	Flask Serial #	Value mL • L ⁻¹			
1		172	B-5	✓	96	✓	✓					1487	4.001	
2		173	75	✓		✓		✓				1465	4.062	
3		174	50	✓		✓	✓					632	5.102	
4		175	30	✓								552	5.986	
5		176	20	✓		✓		✓✓	✓✓			1175	6.663	
6		177	10	✓				✓✓	✓✓			1496	6.697	
7		178	5	✓		✓	✓	✓✓	✓✓			1158	6.712	*water for Evgeny
8														
9														
10	5	176	20									1311	6.605	
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): A-TEAM

Bottom Depth: 109 m
Transmisso Cleaned: Y/N

Time	UTC	Local
Start	1449	0749
Bottom	1452	0752
End	1501	0801

Positional Information
Start Lat: 48 ° 48.68 N
Lon: 125 ° 31.00 W

Bottom Lat: 48 ° 48.70 N
Lon: 125 ° 31.03 W

End Lat: 48 ° 48.70 N
Lon: 125 ° 31.08 W

Oxygen Info For This Cast
Blank Value: 0.0023 mL * L⁻¹
Std Value: 0.7223 mL * L⁻¹
*Date Run: 27 MAY 10
Analyst: NR

* Oxygen blanks and standards should be run daily, if possible
SAMPLES: MAR-6

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LC01 Event #: 53 Ship: Tully UTC Date (dd|mmm|yyyy): 28 May 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	chl a	NH4				Flask Serial #	Value mL · L ⁻¹	
1		179	60-10	✓	86	✓	✓						1483	4.143	
2		180	75	✓		✓	✓						1306	4.561	
3		181	50	✓		✓	✓						620	5.378	→ Open Vent
4		182	30	✓		✓							638	5.961	
5		183	20	✓		✓		✓✓	✓✓				1333	6.144	
6		184	10	✓		✓		✓✓	✓✓				1105	6.590	
7		185	5	✓		✓	✓	✓✓	✓✓				1085	6.627	* water for Evgeny
8															
9															
10	2	180	75										1368	4.548	
11															
12	loop	5											611	6.639	
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): A TEAM

Bottom Depth: 95 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	1530	0830
Bottom	1533	0833
End	1541	0841

Positional Information
Start
Lat: 48 ° 50.40 N
Lon: 125 ° 27.76 W

Bottom
Lat: 48 ° 50.48 N
Lon: 125 ° 27.73 W

End
Lat: 48 ° 50.41 N
Lon: 125 ° 27.74 W

Oxygen Info For This Cast
Blank Value: 0.0023 mL · L⁻¹
Std Value: 0.7223 mL · L⁻¹
*Date Run: 28 MAY 10
Analyst: NZ

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

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: 4001 Event #: 54 Ship: TULLY UTC Date (dd|mmm|yyyy): 28 | MAY | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken											Oxygen Titrations		Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	CHL	NH4						Flask Serial #	Value mL • L ⁻¹		
1		186	Bot-10			✓	✓									1126	4.723	
2		187	20			✓	✓✓		✓✓	✓✓						510	5.429	
3		188	10			✓✓	✓		✓✓	✓✓						1206	5.428	
4		189	5			✓	✓	✓	✓✓	✓✓						396	6.846	
5																		
6																		NO DUPLICATE !
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22								✓										
23																		
24																		

Watchkeeper(s): A-TEAM

Bottom Depth: 40 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1743	1043
Bottom	1744	1044
End	1749	1049

Positional Information
Start Lat: 48 ° 59.86 N
Lon: 125 ° 44.24 W

Bottom Lat: 48 ° 59.87 N
Lon: 125 ° 44.23 W

End Lat: 48 ° 59.87 N
Lon: 125 ° 44.23 W

Oxygen Info For This Cast
Blank Value: 0.0023 mL * L⁻¹
Std Value: 0.7223 mL * L⁻¹
*Date Run: 27 MAY 10
Analyst: CS

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

SAMPLER

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: 4802 Event #: 55 Ship: Tully UTC Date (dd|mmm|yyyy): 28 | MAY | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	CHL	NH4	DIC					Flask Serial #	Value mL • L ⁻¹	
1		190	Bot-10	✓	30	✓✓	✓✓			✓					559	5.231	ONE OXY RUN AS STD LBD1
2		191	20	✓		✓	✓	✓✓	✓✓	✓					1393	5.423	
3		192	10	✓		✓	✓	✓✓	✓✓	✓✓					1491	6.594	Value open (leaking)
4		193	5	✓		✓	✓	✓✓	✓✓	✓✓					3160	6.586	
5																	
6		190	Bot-10	✓	30										2088	5.146	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): A-TEAM

Bottom Depth: 43 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	18 19	11 19
Bottom	18 21	11 21
End	18 26	11 26

Positional Information
Start
Lat: 48° 58.37 N
Lon: 125° 47.05 W

Bottom
Lat: 48° 58.38 N
Lon: 125° 47.07 W

End
Lat: 48° 58.36 N
Lon: 125° 47.08 W

Oxygen Info For This Cast
Blank Value: 0.0023 mL • L⁻¹
Std Value: 0.7223 mL • L⁻¹
*Date Run: 27 MAY 10
Analyst: CS

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

* NEED TO CHANGE STATION
INFO ON FILE
CD ENTERED ID INFO FOR LBD1
SAMPLER: MARIE

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LD04 Event #: S8 Ship: Tully UTC Date (dd|mmm|yyyy): 28|MAY|2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken											Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	NH	CH							Flask Serial #	Value mL • L ⁻¹	
1	1	194	30	✓ 30	✓	✓										3126	4.823	
2	2	195	30	✓ 30												3180	5.533	
3	3	196	20	✓ 20		✓		✓✓	✓✓							2059	6.667	
4	4	197	10	✓ 10				✓✓	✓✓							3019	6.988	
5	5	198	5	✓ 5	✓			✓✓	✓✓							3113	7.048	
6																		
7	5	198	5													3201	7.042	
8																		
9	loop		5													3067	7.278	LD04 loop
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Watchkeeper(s): C. SHAW

Bottom Depth: 63 m
Transmisso Cleaned: (Y) I N

Time	UTC	Local
Start	2018	1318
Bottom	2024	1324
End	2029	1329

Positional Information
Start
Lat: 48 ° 53 20 N
Lon: 125 ° 57 07 W

Bottom
Lat: 48 ° 53 27 N
Lon: 125 ° 57.04 W

End
Lat: 48 ° 53 22 N
Lon: 125 ° 57.07 W

Oxygen Info For This Cast
Blank Value: 0.0023 mL • L⁻¹
Std Value: 0.7223 mL • L⁻¹
*Date Run: 27 MAY 10
Analyst: N²

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

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LD06 Event #: 61 Ship: TULLY UTC Date (dd|mmm|yyyy): 28|May|2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken									Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	CHL	AMH	DIC				Flask Serial #	Value mL · L ⁻¹	
1	199	→	125	✓	✓					✓				3190	2.815	
2	200	→	100	✓	100		✓							2085	3.214	
3	201	→	75	✓	75		✓			✓				2061	5.017	
4	202	→	50	✓	50					✓				2049	5.156	
5	203	→	30	✓	30		✓			✓				3047	6.646	-ambiguous "b"
6	204	→	20	✓	20	✓		✓	✓	✓				2047	6.657	
7	205	→	10	✓	10			✓	✓	✓				2068	6.672	
8	206	→	5	✓	5		✓	✓	✓	✓				3151	6.678	
9																
10	6	204	20											3090	6.656	
11																
12	loop		5											3198	7.002	LD06 loop
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): C. SPARS

Bottom Depth: 137 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	2236	1536
Bottom	2239	1539
End	2248	1548

Positional Information
Start
Lat: 48 ° 46.21 N
Lon: 126 ° 10.12 W

Bottom
Lat: 48 ° 46.21 N
Lon: 126 ° 10.15 W

End
Lat: 48 ° 46.24 N
Lon: 126 ° 10.21 W

Oxygen Info For This Cast
Blank Value: 0.0023 mL · L⁻¹
Std Value: 0.7223 mL · L⁻¹
*Date Run: 27 MAY 10
Analyst: NS

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

Sample: N2

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LD88 Event #: 63 Ship: Tully UTC Date (dd|mmm|yyyy): 28|May|2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken									Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	chl a	NH4	DIC				Flask Serial #	Value mL • L ⁻¹	
1		207	500	✓ 755	✓	✓				✓						bottle 1 didn't close
2		208	500			✓	✓			✓				3121	0.568	
3		209	400			✓	✓			✓				2015	0.895	
4		210	300			✓				✓				3188	1.363	
5		211	250		✓									2090	1.797	
6		212	200							✓				3075	2.503	
7		213	175				✓							1326	2.574	
8		214	150											1414	2.730	
9		215	125											570	3.428	
10		216	100							✓				1327	4.440	
11		217	75											1490	5.612	
12		218	50		✓					✓				2056	6.222	
13		219	30			✓				✓				3133	6.509	
14		220	20					✓	✓					612	6.645	
15		221	10					✓	✓	✓				3116	6.638	
16		222	5		✓	✓	✓	✓	✓	✓				3130	6.639	
17																
18	5	211	250											2017	1.792	
19	12	218	50											3051	6.213	
20																
21																
22																
23																
24																

Watchkeeper(s): SR

Bottom Depth: 766 m
Transmisso Cleaned: Y I (N)

Time	UTC	Local
Start	0107	1807
Bottom	0122	1822
End	0151	1851

Positional Information
Start Lat: 48 ° 39.13 N
Lon: 126 ° 23.29 W

Bottom Lat: 48 ° 39.14 N
Lon: 126 ° 23.21 W

End Lat: 48 ° 39.11 N
Lon: 126 ° 23.05 W

Oxygen Info For This Cast
Blank Value: 0.0030 mL • L⁻¹
Std Value: 0.7223 mL • L⁻¹
*Date Run: MAY 29 10
Analyst: N²

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

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LDO9 Event #: 64 Ship: Tully UTC Date (dd|mmm|yyyy): 29 May 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken							Oxygen Titrations		Comments		
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	CH ₄	NH ₄						Flask Serial #	Value mL • L ⁻¹
1		223	bot-10	✓	1051	✓	✓✓							3178	0.353	* leftover water water for
2		224	750	✓		✓	✓✓	✓						3164	0.226	* leftover water for UA
3		225	500	✓			✓✓✓	✓						—	—	→ LID was out @ 2nd shake: tag caught in it
4		226	400	✓			✓✓							3084	0.882	
5		227	300	✓			✓							3028	1.575	
6		228	250	✓		✓	✓							1316	1.807	? no label
7		229	200	✓			✓							3118	2.403	
8		230	175	✓			✓							3061	2.684	
9		231	150	✓			✓							2007	2.954	
10		232	125	✓			✓							2060	3.177	
11		233	100	✓			✓							2033	4.165	*
12		234	75	✓			✓							3107	5.989	
13		235	50	✓		✓	✓							1324	6.304	
14		236	30	✓			✓							1380	6.601	
15		237	20	✓			✓		✓✓	✓✓				1373	6.675	
16		238	10	✓			✓		✓✓	✓✓				1337	6.665	
17		239	5	✓		✓	✓	✓	✓✓	✓✓				1134	6.679	
18																
19	6	228	250											3187	1.805	? no label
20	13	235	50											1386	6.307	
21																
22		loop	5											1335	6.820	LOOP LDO9
23																
24																

Watchkeeper(s):
A-TEAMBottom Depth: 1050 mTransmisso Cleaned: (Y) N

Time	UTC	Local
Start	0257	0757
Bottom	0315	2015
End	0347	2047

Positional Information
Start
Lat: 48 ° 35.68 N
Lon: 126 ° 30.02 WBottom
Lat: 48 ° 35.64 N
Lon: 126 ° 30.08 WEnd
Lat: 48 ° 35.67 N
Lon: 126 ° 30.18 WOxygen Info For This Cast
Blank Value: 0.0030 mL • L⁻¹
Std Value: 0.7223 mL • L⁻¹
*Date Run: 29 May 10
Analyst: N2

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

SAMPLER: MARIE

* NISKINS 1 + 11: Bottom spiggot in but not leaking.

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: 4011 Event #: 67 Ship: TULLY UTC Date (dd|mmm|yyyy): 29 | MAY | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	CHL	NH4				Flask Serial #	Value mL • L ⁻¹	
1		240	Bot 10	✓	1580	✓	✓	✓					631	0.235	> odd? bottles hung up?
2		241	1500	✓	1499	✓	✓	✓					1248	0.231	
3		242	1250	✓	1249								1319	0.416	
4		243	1000	✓	1000		✓	✓					1146	0.252	
5		244	750	✓	750								1489	0.234	
6		245	500	✓	500								690	0.566	
7		246	400	✓	400		✓						2027	1.036	
8		247	300	✓	300								3182	1.464	
9		248	250	✓	249								528	1.913	
10		249	200	✓	200								3157	2.578	
11		250	175	✓	174								371	2.881	
12		251	150	✓	150								1374	3.061	
13		252	125	✓	124								621	3.575	
14		253	100	✓	100								569	4.141	
15		254	75	✓	75								647	5.479	
16		255	50	✓	50								1475	6.413	
17		256	30	✓	30								1378	6.581	
18		257	20	✓	20					✓	✓		1261	6.687	
19		258	10	✓	10	✓	✓			✓	✓		196	6.700	
20		259	5	✓	4	✓	✓			✓	✓		557	6.686	
21															
22	2	241	1500										1404	0.759	OUCH!
23	19	258	10										468	6.687	
24															

Watchkeeper(s): C-STAR

Bottom Depth: 1593 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0650	2350
Bottom	0715	0015
End	0757	0057

Positional Information
Start Lat: 48 ° 28.74 N
Lon: 124 ° 42.03 W

Bottom Lat: 48 ° 28.75 N
Lon: 124 ° 42.96 W

End Lat: 48 ° 28.80 N
Lon: 124 ° 42.96 W

Oxygen Info For This Cast
Blank Value: 0.0030 mL • L⁻¹
Std Value: 0.7223 mL • L⁻¹
*Date Run: 29 MAY 10
Analyst: N2

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

Samplers: CS

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LG09 Event #: 69 Ship: Tully UTC Date (dd|mmm|yyyy): 29 | MAY | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	CIT	NTN						Flask Serial #	Value mL • L ⁻¹	
1		260	Blm-10	✓	2005	✓✓	✓✓								559	1.486	
2		261	1750	✓		✓✓	✓								1393	1.038	
3		262	1500	✓		✓✓	✓								1491	0.635	
4		263	1250	✓		✓✓									3160	0.410	
5		264	1000	✓		✓✓									639	0.240	
6		265	750	✓		✓✓									1487	0.232	
7		266	500	✓		✓✓	✓								1465	0.797	
8		267	400	✓		✓✓									632	1.334	
9		268	300	✓		✓									552	1.794	-bubble on lens
10		269	250	✓		✓									1175	2.442	
11		270	200	✓		✓									1311	2.564	
12		271	175	✓		✓✓									1496	2.595	
13		272	150	✓		✓									1158	2.645	
14		273	125	✓		✓	✓								1483	3.299	
15		274	100	✓		✓									1368	4.121	
16		275	75	✓		✓									620	5.578	
17		276	50	✓		✓									638	6.344	
18		277	30	✓		✓									1333	6.664	
19		278	20	✓		✓✓		✓✓	✓✓						1105	6.655	-bad curve "b"
20		279	10	✓		✓		✓✓	✓✓						1085	6.672	
21		280	5	✓		✓	✓	✓✓	✓✓						611	6.671	
22																	
23	1	260	2005												2088	1.466	
24	14	273	125												1306	3.289	

Watchkeeper(s): STRBottom Depth: 2057 mTransmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1308	0608
Bottom	1343	0643
End	1434	0734

Positional Information

Start Lat: 48 ° 51.23 N
Lon: 127 ° 19.33 W

Bottom Lat: 48 ° 51.16 N
Lon: 127 ° 19.40 W

End Lat: 48 ° 51.15 N
Lon: 127 ° 19.44 W

Oxygen Info For This Cast

Blank Value: 0.0030 mL ✓

Std Value: 0.7223 mL ✓

*Date Run: 29 MAY 10

Analyst: N2

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

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LG06Event #: 74Ship: TULLYUTC Date (dd|mmm|yyyy): 29 MAY 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	CML	NH4						Flask Serial #	Value mL · L ⁻¹	
1		289	Bot-10	✓ 950	✓	✓✓									3126	0.248	
2		290	750	✓ 150		✓✓	✓								3180	0.253	
3		291	500	✓ 500		✓✓	✓								1059	0.586	
4		292	400	✓ 400		✓✓✓									3019	0.976	
5		293	300	✓ 300		✓									3113	1.639	
6		294	250	✓ 250		✓									3201	1.998	
7		295	200	✓ 200	✓	✓									3067	2.328	
8		296	175	✓ 175		✓									2085	2.513	
9		297	150	✓ 150		✓									2061	2.767	
10		298	125	✓ 125		✓									2049	3.362	
11		299	100	✓ 100		✓									3047	4.357	possible overshoot
12		300	75	✓ 75		✓✓									2047	6.389	
13		301	50	✓ 50		✓									3090	6.550	
14		302	30	✓ 30		✓									2068	6.618	
15		303	20	✓ 20	✓	✓		✓✓	✓✓						3151	6.703	
16		304	10	✓ 10		✓		✓✓	✓✓						2020	6.793	
17		305	5	✓ 5	✓	✓	✓	✓✓	✓✓						3121	6.719	
18																	
19	7	295	200												3190	2.319	
20	15	303	20												3198	6.693	
21																	
22		loop 5													2015	6.624	LG06 loop
23																	
24																	

Watchkeeper(s): C. STALEBottom Depth: 954 mTransmisso Cleaned: Y / N

Time	UTC	Local
Start	2155	1455
Bottom	2210	1510
End	2243	1543

Positional Information

Start Lat: 49 ° 03.51 N
Lon: 127 ° 01.16 W

Bottom Lat: 49 ° 03.54 N
Lon: 127 ° 01.21 W

End Lat: 49 ° 03.55 N
Lon: 127 ° 01.30 W

Oxygen Info For This Cast

Blank Value: 0.0030 mL · L⁻¹

Std Value: 0.7223 mL · L⁻¹

*Date Run: 29 MAY 10

Analyst: NZ

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

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LG04 Event #: 76 Ship: Tulley UTC Date (dd|mmm|yyyy): 30 MAY 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	CHL	NH4				Flask Serial #	Value mL • L ⁻¹	
1		307	B-10	✓ 135	✓	✓							1301	2.484	
2		308	100	✓	↓	✓	✓						1144	3.332	
3		309	75	✓	✓	✓	✓						3181	4.940	
4		310	50	✓	↓	↓							1321	5.372	
5		311	30	✓	↓	↓							1481	6.620	
6		312	20	✓	↓	↓		xx	xx				2084	6.663	
7		313	10	✓	↓	↓		xx	xx				1180	7.020	
8		314	5		↓	✓	✓	xx	xx				1365	7.028	
9															
10	3	309	75										2099	4.936	
11															
12	loop	5											1476	6.910	LG04 loop
13															
14		LG03													
15		315	5										2086	6.943	
16	loop	5											437	6.900	LG03 loop
17															
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): SR

Bottom Depth: 145 m
Transmisso Cleaned: (Y) I N

Time	UTC	Local
Start	0041	1741
Bottom	0043	1743
End	0054	1754

Positional Information
Start
Lat: 49 ° 11.30 N
Lon: 126 ° 49.34 W

Bottom
Lat: 49 ° 11.30 N
Lon: 126 ° 49.32 W

End
Lat: 49 ° 11.31 N
Lon: 126 ° 49.41 W

Oxygen Info For This Cast
Blank Value: 0.0030 mL • L⁻¹
Std Value: 0.7223 mL • L⁻¹
*Date Run: 29 MAY 10
Analyst: NZ

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

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LG02Event #: 79Ship: TullyUTC Date (dd|mmm|yyyy): 30|May|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		316	B-10	✓	90					
2		317	75	✓			X			
3		318	50	✓		XX	X			
4		319	30	✓	XX					
5		320	20	✓			XX	XX		
6		321	10	✓			XX	XX		
7		322	5	✓	✓	✓	X	XX	XX	
8										
9	4	319	30							
10										
11	loop	5								
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

Watchkeeper(s):
A-TEAMBottom Depth: 100 mTransmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0301	2001
Bottom	0304	2004
End	0312	2012

Positional Information

Start	Lat: 49 ° 18.72	N
	Lon: 126 ° 38.11	W

Bottom	Lat: 49 ° 18.71	N
	Lon: 126 ° 38.12	W

End	Lat: 49 ° 18.69	N
	Lon: 126 ° 38.12	W

Oxygen Info For This Cast

Blank Value:	<u>0.0030</u> mL
Std Value:	<u>0.7223</u> mL
*Date Run:	<u>29 May 10</u>
Analyst:	<u>N2</u>

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

SAMPLER: MARIE / DOUG

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LG01 Event #: 81 Ship: TULLY UTC Date (dd|mmm|yyyy): 30 | MAY | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed ☒	Pressure	Oxy	Nut	Sal	CHL	NH4					Flask Serial #	Value mL • L ⁻¹	
1		323	Bot-10	☒	40	☒	☒								3107	5.069	
2		324	30	☒		☒	☒								1470	5.995	
3		325	20	☒		☒	☒		✓	✓					1386	6.881	had curve "b"
4		326	10	☒		☒	☒		✓	✓					1380	6.849	
5		327	5	☒		☒	☒	☒	✓	✓					1373	6.729	
6		328	5	☒													} John / Lizzac
7		329	5	☒													
8																	
9	5	327	5												1337	6.739	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): A TEAM

Bottom Depth: 50 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0353	2053
Bottom	0355	2055
End	0400	2100

Positional Information
Start
Lat: 49 ° 20 56 N
Lon: 126 ° 34 94 W

Bottom
Lat: 49 ° 20 55 N
Lon: 126 ° 34 97 W

End
Lat: 49 ° 20 530 N
Lon: 126 ° 35.053 W

Oxygen Info For This Cast
Blank Value: 0.0030 mL • L⁻¹
Std Value: 0.7223 mL • L⁻¹
*Date Run: MAY 29, 10
Analyst: N2

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

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LBP3Event #: 85Ship: TullyUTC Date (dd|mmm|yyyy): 30 | MAY | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken			CTD	NH ₄						Oxygen Titrations		Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal								Flask Serial #	Value mL • L ⁻¹	
1		333	Btm-10		163										1326	3.472	
2		334	150												1414	2.699	
3		335	125												570	2.916	
4		336	100												1327	3.477	
5		337	75												2056	3.487	
6		338	50												3051	5.893	
7		339	30												3133	6.137	
8		340	20												612	6.266	
9		341	10												3116	6.370	
10		342	5												1335	6.380	
11																	
12	4	336	100												1490	3.468	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): SRBottom Depth: 171 mTransmisso Cleaned: ☒ N

Time	UTC	Local
Start	1205	0505
Bottom	1209	0509
End	1223	0523

Positional Information

Start
Lat: 50 ° 3.21 N
Lon: 127 ° 55.45 WBottom
Lat: 50 ° 3.19 N
Lon: 127 ° 55.43 WEnd
Lat: 50 ° 3.19 N
Lon: 127 ° 55.51 W

Oxygen Info For This Cast

Blank Value: 0.0030 mL • L⁻¹Std Value: 0.7223 mL • L⁻¹*Date Run: 29 MAY 10Analyst: N2

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

Nina: Flasks are in with LGO1 samples

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: LGO18 Event #: 28 Ship: Tully UTC Date (dd mmm/yyyy): 30 May 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		345	1000	✓	1276	✓	✓											extended wire depth
2		346	1000	✓		✓	✓	✓								631	0.335	DID NOT CLOSE
3		347	750	✓		✓	✓	✓								1404	0.274	TOP VALVE WIDE OPEN
4		348	500	✓		✓	✓									1319	0.609	bad curve
5		349	400	✓		✓	✓									1146	0.896	
6		350	300	✓		✓	✓									1489	1.523	
7		351	250	✓		✓	✓									690	1.997	
8		352	200	✓		✓	✓									3182	2.194	
9		353	175	✓		✓	✓									528	2.415	
10		354	150	✓		✓	✓									3157	2.670	
11		355	125	✓		✓	✓									371	2.900	
12		356	100	✓		✓	✓									1374	3.216	
13		357	75	✓		✓	✓									621	4.595	
14		358	50	✓		✓	✓									569	5.612	
15		359	30	✓		✓	✓									647	6.352	
16		360	20	✓		✓	✓	✓	✓							1475	6.543	
17		361	10	✓		✓	✓	✓	✓							1378	6.563	
18		362	5	✓		✓	✓	✓	✓	✓						1261	6.553	
19																		
20	2	346	1000													1248	0.331	
21	7	351	250													2027	1.998	
22		loop	5													196	6.618	overshot endpoint
23																		LBPOS loop
24																		

Watchkeeper(s):
A-TEAM

Bottom Depth: 1280 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1500	0800
Bottom	1526	0826
End	1606	0906

Positional Information

Start

Lat: 50 ° 00.01 N

Lon: 128 ° 00.02 W

Bottom

Lat: 50 ° 00.05 N

Lon: 127 ° 59.95 W

End

Lat: 50 ° 00.01 N

Lon: 127 ° 59.92 W

Oxygen Info For This Cast

Blank Value: 0.0030 mL • L⁻¹

Std Value: 0.7223 mL • L⁻¹

*Date Run: 29.10.10

Analyst: N2

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

SAMPLER: DOUG/MARIE

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: 2BP7Event #: 91Ship: TULLYUTC Date (dd|mmm|yyyy): 30 | MAY | 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	365	2000	✓ 2000	✓	✓✓		1460	1.461							
2	2	366	2000	✓ 2000	✓	✓✓	✓	3194	1.443							
3	3	367	1500	✓ 1500		✓✓	✓	2075	0.726							
4	4	368	1250	✓ 1250		✓✓		3069	0.414							
5	5	369	1000	✓ 1000		✓✓		3108	0.239							
6	6	370	750	✓ 750		✓✓		3124	0.259							
7	7	371	500	✓ 500		✓✓		1485	0.838							
8	8	372	400	✓ 400		✓✓		2040	1.013							
9	9	373	300	✓ 300		✓		2073	2.206							
10	10	374	250	✓ 250		✓		2082	2.287							
11	11	375	200	✓ 200	✓	✓		2019	3.481							
12	12	376	175	✓ 175		✓		3161	3.701							
13	13	377	150	✓ 150		✓		1498	3.770							
14	14	378	125	✓ 125		✓		1477	4.115							
15	15	379	100	✓ 100		✓		668	4.487							
16	16	380	75	✓ 75		✓		1174	5.108							
17	17	381	50	✓ 50		✓		622	6.350							
18	18	382	30	✓ 30		✓		1367	6.379							
19	19	383	20	✓ 20	✓	✓		657	6.634						ambiguous EP	
20	20	384	10	✓ 10		✓		1389	6.675							
21	21	385	5	✓ 5	✓	✓	✓	3043	6.675							
22	2	366	2000					2000	1.442							
23	11	375	200					2055	3.496							
24	19	383	20					715	6.649							

Watchkeeper(s): C-STARSBottom Depth: 2197 mTransmisso Cleaned: Y / N

Time	UTC	Local
Start	1947	1247
Bottom	2014	
End	2100	

Positional Information

Start Lat: 49 ° 52.26 N
Lon: 128 ° 11.06 W

Bottom Lat: 49 ° 52.52 N
Lon: 128 ° 10.677 W

End Lat: 49 ° 52.78 N
Lon: 128 ° 10.073 W

Oxygen Info For This Cast

Blank Value: 0.0032 mL • L⁻¹

Std Value: 0.7227 mL • L⁻¹

*Date Run: MAY 31 10

Analyst: N2

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

Samples: N2

Water Properties Group

Rosette Log

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

Cruise ID: 700-12 Station: LB86Event #: 92Ship: ThetisUTC Date (dd|mmm|yyyy): 30 May 200

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	380	2000							} FOR URGENT
2	2	381	2000							
3	3	382	2000							
4	4	383	2000							
5	5	384	2000							
6	6	385	2000							
7	7	386	2000							
8	8	387	2000							
9	9	388	2000							
10	10	389	2000							
11	11	390	5							} FOR EVGENY
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

Watchkeeper(s): _____

Bottom Depth: 2074 mTransmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2229	1529
Bottom	2310	1610
End	2345	1645

Positional Information

Start

Lat: 49° 48.64 N

Lon: 128° 16.76 W

Start

Bottom

Lat: 49° 48.78 N

Lon: 128° 16.51 W

Bottom

End

End

Lat: 49° 48.79 N

Lon: 128° 16.41 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: 2010-12 Station: CS00 Event #: 99 Ship: Tully UTC Date (dd|mmm|yyyy): 31 MAY 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken			Oxygen Titrations							Comments		
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	CHL	NH4					Flask Serial #		Value mL · L ⁻¹	
1		398	2000	✓		✓	✓✓								1326	1.374	
2		399	1500	✓			✓✓	✓							1414	0.641	
3		400	1250	✓			✓✓	✓							570	0.307	
4		401	1000	✓		✓	✓✓								1327	0.243	
5		402	750	✓			✓✓								2056	0.258	
6		403	500	✓			✓✓								3051	0.518	
7		404	400	✓			✓✓								3133	0.734	
8		405	300	✓			✓								612	1.359	
9		406	250	✓											3116	1.553	
10		407	200	✓		✓									1335	1.956	
11		408	175	✓											3135	2.265	
12		409	150	✓											3164	2.541	
13		410	125	✓											3084	3.536	
14		411	100	✓											3028	6.409	
15		412	75	✓			✓								1316	6.755	
16		413	50	✓											3107	6.696	
17		414	30	✓											3118	6.626	
18		415	20	✓		✓			✓✓	✓✓					3061	6.657	Wrong sample # on oxy
19		416	10	✓					✓✓	✓✓					2060	6.665	
20		417	5	✓		✓		✓	✓✓	✓✓					2033	6.676	spigot in but not leaking
21		loop	5												638	6.675	loop CS00
22	4	401	1000												1490	0.241	
23	10	407	200												3178	1.963	
24	18	415	20												2007	6.648	Wrong depth on oxy

Watchkeeper(s): A TEAM

Bottom Depth: 2175 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1559	0859
Bottom	1628	0928
End	1715	1015

Positional Information
Start
Lat: 50 ° 27.65 N
Lon: 129 ° 55.08 W

Bottom
Lat: 50 ° 27.66 N
Lon: 129 ° 55.26 W

End
Lat: 50 ° 27.48 N
Lon: 129 ° 55.04 W

Oxygen Info For This Cast
Blank Value: 0.0032 mL · L⁻¹
Std Value: 0.7227 mL · L⁻¹
*Date Run: 31 MAY 10
Analyst: N2

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

SAMPLER: WINA / MARIE

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: C502 Event #: 104 Ship: TULLY UTC Date (dd|mmm|yyyy): 31 | MAY | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl	NH ₄	Flask Serial #	Value mL · L ⁻¹				
1	1	418	1000	✓ 1000	✓	✓✓							1301	0.249	
2	4	419	750	✓ 751	✓	✓✓	✓						1144	0.268	-bubble "b"
3	5	420	500	✓ 500	✓	✓✓✓	✓						3181	0.618	
4	6	421	400	✓	✓	✓✓							2099	1.125	
5	7	422	300		✓	✓							1321	1.698	-bad curve "d"
6	8	423	250		✓	✓							1481	1.889	
7	9	424	200		✓✓	✓									- no samples
8	10	425	175		✓	✓							1365	2.629	
9	11	426	150		✓	✓							1476	2.833	
10	12	427	125		✓	✓							2086	3.016	
11	13	428	100		✓	✓							437	3.908	
12	14	429	75		✓	✓✓							650	6.246	
13	15	430	50		✓	✓							1406	6.600	
14	16	431	30		✓	✓							1411	6.619	
15	17	432	20		✓✓	✓		✓✓	✓✓				1387	6.629	
16	18	433	10		✓	✓		✓✓	✓✓				1201	6.670	
17	19	434	5		✓	✓	✓	✓✓	✓✓				3209	6.649	
18															
19	2	435	1000	✓ 1000	FOR LIZZIE										
20	3	436	1000	✓ 1000											
21															
22	17	435	20												
23															
24															

Watchkeeper(s): C-SARKSBottom Depth: 1101 mTransmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	<u>2230</u>	<u>1530</u>
Bottom	<u>2244</u>	<u>1544</u>
End	<u>2317</u>	<u>1617</u>

Positional Information
Start
Lat: 50 ° 34.92 N
Lon: 129 ° 27.89 WBottom
Lat: 50 ° 41.36 N
Lon: 129 ° 27.94 WEnd
Lat: 50 ° 41.34 N
Lon: 129 ° 27.86 WOxygen Info For This Cast
Blank Value: 0.0032 mL · L⁻¹
Std Value: 0.7223 mL · L⁻¹
*Date Run: MAY 31 10
Analyst: N2

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

Sample: SR

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: C504 Event #: 108 Ship: Tully UTC Date (dd|mmm|yyyy): 01 JUN 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	CHL	NH4						Flask Serial #	Value mL · L ⁻¹	
1		437	B-10	✓ 90	✓	✓									1460	4.997	
2		438	75	✓			✓								3194	5.574	
3		439	50	✓		✓	✓								2080	6.121	
4		440	30	✓		✓									3069	6.505	} depth wrong on oxy
5		441	20	✓				2	2						3108	6.559	
6		442	10					2	2						3124	6.742	
7		443	5				✓	2	2						1485	6.755	
8																	
9	3	439	50												2075	6.131	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): SR

Bottom Depth: 95 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0153	1853
Bottom	0155	1855
End	0202	1902

Start	Positional Information	
	Lat: <u>50 ° 49 . 21</u>	N
	Lon: <u>129 ° 13 . 03</u>	W
▼		
Bottom	Lat: <u>50 ° 49 . 22</u>	N
	Lon: <u>129 ° 13 . 04</u>	W
▼		
End	Lat: <u>50 ° 49 . 24</u>	N
	Lon: <u>129 ° 13 . 03</u>	W

Oxygen Info For This Cast
Blank Value: 0.0032 mL · L⁻¹ ✓
Std Value: 0.7227 mL · L⁻¹ ✓
*Date Run: MAY 31 10
Analyst: N2
* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: CS06 Event #: 116 Ship: Tully UTC Date (dd|mmm|yyyy): 01 JUN 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		444	30-10	✓ 50	✓	✓		2040	5.680	bud curve "b"
2		445	50-	✓ 50	✓		✓	2073	5.633	
3		446	30-	✓ 30	✓	✓	✓	2082	6.186	
4		447	20	✓ 20			✓	2055	6.308	
5		448	10	✓ 10			✓	3161	6.590	
6		449	5	✓ 5			✓	1498	6.743	
7										
8										
9	2	445	50					2019	5.635	
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

Watchkeeper(s): C. STANESBottom Depth: 44 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0943	
Bottom	0944	
End	0952	

Positional Information
Start
Lat: 51.00.03 N
Lon: 128.51.89 WBottom
Lat: 51.00.02 N
Lon: 128.51.89 WEnd
Lat: 50.51.95 N
Lon: 128.51.85 WOxygen Info For This Cast
Blank Value: 0.0032 mL · L⁻¹ ✓
Std Value: 0.7227 mL · L⁻¹ ✓
*Date Run: 31 MAY 10
Analyst: N2

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

Water Properties Group

Rosette Log

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

Cruise ID: 200-12 Station: CS09Event #: 122Ship: TULUUTC Date (dd|mmm|yyyy): 01 JUN 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	CHL	NIM						Flask Serial #	Value mL · L ⁻¹	
1		450	175	✓	✓	✓									1326	1.870	
2		451	175	✓	✓	✓	✓								1414	1.878	
3		452	150	✓	✓	✓	✓								570	2.026	
4		453	125	✓	✓	✓											Didn't trip due to poor bottle latching (bottles 4+5)
5		454	100	✓	✓	✓											
6		455	75	✓	✓	✓								2056	4.545		
7		456	50	✓	✓	✓								3051	5.301		
8		457	30	✓	✓	✓								612	5.778		
9		458	20	✓	✓	✓		✓	✓					3116	6.538		
10		459	10	✓	✓	✓		✓	✓					1335	7.395		
11		460	5	✓	✓	✓	✓	✓	✓					3178	7.578		
12																	
13	7	456	50												3133	5.296	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): SRBottom Depth: 195 mTransmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1329	0629
Bottom	1332	0632
End	1345	0645

Positional Information

Start Lat: 51 ° 12.45 N
Lon: 128 ° 26.00 W

Start

Bottom Lat: 51 ° 12.50 N
Lon: 128 ° 27.99 W

Bottom

End

End Lat: 51 ° 12.52 N
Lon: 128 ° 27.95 W

Oxygen Info For This Cast

Blank Value: 0.0032 mL · L⁻¹

Std Value: 0.7227 mL · L⁻¹

*Date Run: 31 MAY 10

Analyst: N2

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

Water Properties Group

Rosette Log

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

Cruise ID: _____ Station: UBC7 Event #: 131 Ship: Tully UTC Date (dd|mmm|yyyy): 01 JUN 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken			Oxygen Titrations					Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	ZOOP	POM	UBC CHLA	Flask Serial #	Value mL · L ⁻¹	
1		461	10	✓ 151	✓	✓		✓	✓		1460	3.252	
2		468	10	✓									
3		469	125	✓	✓	✓					3194	7.509	-strange
4		470	100	✓	✓	✓					2000	4.158	
5		471	75	✓	✓	✓					2075	4.490	
6		472	50	✓	✓	✓					3069	5.081	
7		473	30	✓	✓	✓				✓	3124	5.573	
8		474	30	✓									
9		475	20	✓	✓	✓					1485	5.725	
10		476	12	✓	✓	✓					2040	6.360	
11		477	11	✓				✓					
12		478	10	✓				✓					
13		479	9	✓				✓					
14		480	8	✓				✓					
15		481	7	✓	✓	✓			✓	✓	2073	7.144	
16		482	7	✓				✓					
17		483	6	✓				✓					
18		484	5	✓				✓	✓	✓			
19		485	4	✓				✓					
20		486	3	✓				✓					
21		487	2		✓	✓			✓	✓			
22		488	2					✓					
23													
24	6	472	50								3108	5.083	

Watchkeeper(s): SRBottom Depth: 160 mTransmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0005	1705
Bottom	0007	1707
End	0026	1726

Positional Information

Start Lat: 51 ° 30.01 N
Lon: 127 ° 48.85 W

Bottom Lat: 51 ° 30.03 N
Lon: 127 ° 49.05 W

End Lat: 51 ° 30.02 N
Lon: 127 ° 49.04 W

Oxygen Info For This Cast

Blank Value: 0.0032 mL · L⁻¹

Std Value: 0.7237 mL · L⁻¹

*Date Run: 02 JUN 10

Analyst: N²

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

Sampler: N²

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: R2 Event #: 135 Ship: TULLY UTC Date (dd|mmm|yyyy): 2 JUN 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		491	B-10	✓ 320	✓	✓	✓			→ DID NOT CLOSE
2		492	250	✓				1414	2.518	
3		493	200	✓				570	2.999	
4		494	175	✓				1327	3.302	
5		495	150	✓				1490	3.491	CRACK IN FLASK LID? - low trans "b" ID?
6		496	125	✓	✓			2056	3.663	
7		497	100	✓		✓		3133	4.015	
8		498	75	✓				612	4.588	
9		499	50	✓				3116	4.936	
10		500	30	✓				1335	5.102	
11		501	20	✓				3178	5.207	
12		502	12	✓	✓	✓		3135	5.424	
13		503	11	✓						
14		504	10	✓						
15		505	9	✓						
16		506	8	✓						
17		507	7	✓			✓	✓	✓	
18		508	6	✓				✓		
19		509	5	✓	✓	✓				
20		510	5	✓				3164	6.524	
21		511	4	✓						
22		512	3	✓						
23		513	2	✓ 0.08						
24		514	2	✓ 0.08						

Watchkeeper(s): A-TEAM

Bottom Depth: 332 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0338	2038
Bottom	0345	2045
End	0408	2108

Positional Information
Start Lat: 51 ° 31.26 N
Lon: 127 ° 33.59 W

Bottom Lat: 51 ° 31.25 N
Lon: 127 ° 33.59 W

End Lat: 51 ° 31.23 N
Lon: 127 ° 33.52 W

Oxygen Info For This Cast
Blank Value: 0.0032 mL • L⁻¹
Std Value: 0.7237 mL • L⁻¹
*Date Run: 02 JUN 10
Analyst: N2

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

SAMPLER: MARIC

6 496 125

305/ 3.624

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: R03 Event #: 139 Ship: Tully UTC Date (dd|mmm|yyyy): 02|Jun|2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken				Oxygen Titrations		Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Phyto chl a	Flask Serial #	Value mL · L ⁻¹	
1		S15	30			✓					did not tip
2		S16	5			✓		✓			
3		S17	30								
4		S18	30								did not tip
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											

Watchkeeper(s): C. Smith

Bottom Depth: 3 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0731	
Bottom	0737	
End		

Positional Information
Start
Lat: 51 ° 35.80 N
Lon: 127 ° 32.02 W

Start

Bottom
Lat: 51 ° 35.87 N
Lon: 127 ° 32.11 W

Bottom

End
Lat: ° N
Lon: ° W

End

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: 2010-12 Station: R14 Event #: 141 Ship: Tully UTC Date (dd|mmm|yyyy): 2 | JUN | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken				Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Phyto	Flask Serial #	Value mL · L ⁻¹	
1	591		30	✓ 30		✓		✓			TRIP EXTRA BOTTLES DUE TO A LOT OF MISFIRING!
2	560		30	✓ 30		✓		✓			
3	541		5	✓ 5							
4			5								
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											

Watchkeeper(s): C. STARR

Bottom Depth: 301 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0913	
Bottom	0919	
End	0926	

Positional Information

Start	Lat: 51 ° 38.87	N
	Lon: 127 ° 26.78	W
Bottom	Lat: 51 ° 38.89	N
	Lon: 127 ° 26.78	W
End	Lat: 51 ° 38.89	N
	Lon: 127 ° 26.78	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

wrong labels

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: R15 Event #: 143 Ship: Tully UTC Date (dd|mmm|yyyy): 02 JUNE 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy 10S	Nut 10S	Sal	Temp	Ph	Chl			Flask Serial #	Value mL · L ⁻¹	
1	491	522	Btm-10	✓ 190	✓	✓	✓	✓							
2	492	523	Btm-10	✓ 190	✓	✓							2055	2.371	
3	493	524	175	✓ 175	✓	✓							3161	2.472	
4	494	525	150	✓ 150	✓	✓							1498	2.873	
5	495	526	125	✓ 125	✓	✓							1477	3.058	
6	496	527	100	✓ 100	✓	✓							668	3.419	
7	497	528	75	✓ 75	✓	✓							622	3.890	
8	498	529	50	✓ 50	✓	✓							1367	4.700	
9	499	530	30	✓ 30			✓								
10	500	531	30	✓ 30	✓	✓	✓						657	5.012	
11	501	532	20	✓ 20	✓	✓							715	5.120	
12	502	533	12	✓ 12			✓								
13	503	534	12	✓ 12	✓	✓	✓						1389	5.491	
14	504	535	11	✓ 11			✓								
15	505	536	10	✓ 10			✓								
16	506	537	9	✓ 9			✓								
17	507	538	8	✓ 8			✓								
18	508	539	7	✓ 7	✓	✓							3043	6.559	
19	509	540	7	✓ 7			✓								
20	510	541	6	✓ 6			✓								
21	511	542	5	✓ 5			✓								
22	512	543	4	✓ 4			✓								
23	513	544	3	✓ 3			✓								
24	514	545	2	✓ 2			✓								

Watchkeeper(s): C. STARS / BEE'S KNEES

Bottom Depth: 202 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	1033	0353
Bottom	1036	0336
End	1058	0358

Positional Information
Start
Lat: 51 ° 40.71 N
Lon: 127 ° 19.90 W

Bottom
Lat: 51 ° 40.70 N
Lon: 127 ° 19.88 W

End
Lat: 51 ° 40.72 N
Lon: 127 ° 19.85 W

Oxygen Info For This Cast
Blank Value: 0.0032 mL · L⁻¹ ✓
Std Value: 0.7237 mL · L⁻¹ ✓
*Date Run: 02-06-10
Analyst: N2

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

6 527 100

1174 3.432

Water Properties Group

Rosette Log

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

Cruise ID: 2010-12 Station: R16 Event #: 146 Ship: Tully UTC Date (dd|mmm|yyyy): 02 JUN 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		546	30		✓	✓		3180	5.062	
2			30							
3		547	5		✓	✓		3126	6.613	- entered wrong oxy
4			5							
5										
6	R1	490	5					2019	5.824	
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

Watchkeeper(s): SR

Bottom Depth: 147 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1229	0529
Bottom	1232	0532
End	1237	0537

Positional Information
Start
Lat: 51 ° 40.52 N
Lon: 127 ° 12.00 W

Bottom
Lat: 51 ° 40.51 N
Lon: 127 ° 16.99 W

End
Lat: 51 ° 40.50 N
Lon: 127 ° 16.98 W

Oxygen Info For This Cast
Blank Value: 0.0032 mL · L⁻¹
Std Value: 0.7237 mL · L⁻¹
*Date Run: 02 JUN 10
Analyst: N2

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