

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: SIO3 Event #: 1 Ship: TULLY UTC Date (dd|mmm|yyyy): 6|6|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	1	1	Bot-10	✓ 218	✓	✓		3084	0.00	
2	2	2	200	✓ 200	✓	✓	✓	3028	0.00	
3	3	3	175	✓	✓	✓		1316	0.00	2007 = 0.00
4	4	4	150	✓	✓	✓		3069	0.00	
5	5	5	125	✓	✓	✓		3108	0.062	anoxic ↑
6	6	6	100	✓	✓	✓		3124	1.319	
7	7	7	75	✓	✓	✓		3126	3.638	150/125/100 mis'd
8	8	8	50	✓	✓	✓		3180	4.641	
9	9	9	25	✓	✓	✓		2073	4.988	
10	10	10	10	✓	✓	✓		2082	5.516	
11	11	11	5	✓	✓	✓		2019	7.760	
12										tripped @ 0m
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	✓									

Watchkeeper(s): DJ MR

Bottom Depth: 226 m
Transmisso Cleaned: Y / N

	Time	UTC	Local
Start		0223	1923
Bottom		0228	1928
End		0243	1943

Positional Information
Start
Lat: 48 ° 35.61 N
Lon: 123 ° 30.02 W

Bottom
Lat: 48 ° 35.59 N
Lon: 123 ° 30.01 W

End
Lat: 48 ° 35.57 N
Lon: 123 ° 30.01 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: 2010-13 Station: P2Event #: 3Ship: TULLYUTC Date (dd|mmm|yyyy): 7 | 6 | 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken							Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	DM5 DM5	Nut	Sal	DMSP d	DMSP t	chl	HPDC	Flask Serial #	Value mL · L ⁻¹	
1		14	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	✓	✓	✓		✓	✓	✓				chl filter shifted
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): dy

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0200	1900
Bottom	0203	1903
End	0213	1913

Positional Information

Start
Lat: 48° 35.98 N
Lon: 125° 59.91 WBottom
Lat: 48° 35.98 N
Lon: 125° 59.92 WEnd
Lat: 48° 35.92 N
Lon: 125° 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

② "Deep" cast
Rosette Log

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

Cruise ID: 2010-13 Station: P2 Event #: 5 Ship: TULCY UTC Date (dd|mmm|yyyy): 7 | JUN | 2010

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	25	Bot. 10	✓	✓	✓	✓	✓	✓			1498	✓	DID NOT CLOSE
2	2	26	100	✓	✓	✓	✓	✓	✓			1477	3.230	
3	3	27	75	✓	✓	✓	✓	✓	✓			668	3.788	
4	4	28	75	✓	✓	✓	✓	✓	✓			1174	3.798	
5	5	29	50	✓	✓	✓	✓	✓	✓			622	4.745	
6	6	30	25	✓	✓	✓	✓	✓	✓			1367	6.106	657 = 6.105
7	7	31	10	✓	✓	✓	✓	✓	✓			715	7.108	
8	8	32	5	✓	✓	✓	✓	✓	✓			1389	7.334	
9														
10														
11														
12		Loop										3161	7.176	P1 Loop
13		13										2055	7.168	P1 5m
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): DI

Bottom Depth: 117 m
Transmisso Cleaned: Y / (N)

Time	UTC	Local
Start	0246	1946
Bottom	0249	1949
End	0257	1957

Positional Information
Start
Lat: 48 ° 35.98 N
Lon: 126 ° 00.00 W

Bottom
Lat: 48 ° 35.97 N
Lon: 126 ° 0.0 W

End
Lat: 48 ° 35.94 N
Lon: 126 ° 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

① UBC CAST
Rosette Log

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

Cruise ID: 2010-13 Station: P4 Event #: 9 Ship: TULLY UTC Date (dd|mmm|yyyy): 07 | 06 | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken					Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	UBC		Flask Serial #	Value mL · L ⁻¹	
1		35	1300	✓ (1285.0)		✓						DID NOT CLOSE
2		36	1300	✓								
3		37	1300	✓		✓	✓	✓				
4		38	1200	✓								} CONSTANCE DMS WATER
5		39	1200	✓								
6		40	1000	✓								
7		41	1000	✓								
8		42	1000	✓		✓	✓	✓				
9		43	500	✓								
10		44	500	✓								
11		45	500	✓		✓	✓	✓				
12		46	10	✓								
13		47	10	✓								
14		48	10	✓		✓	✓	✓				
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												

Watchkeeper(s): H.M.

Bottom Depth: 1314 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0825	0125
Bottom	0846	0146
End	0912	0212

Positional Information
Start
Lat: 48 ° 38.99 N
Lon: 126 ° 36.99 W

Bottom
Lat: 40 ° 38.99 N
Lon: 126 ° 40.01 W

End
Lat: 49 ° 38.99 N
Lon: 126 ° 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: 2010-13

Station: P4

Event #: 12

Ship: TULLY

UTC Date (dd|mmm|yyyy): 7 | JUN | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	pH	DO	chl	Urea		Flask Serial #	Value mL · L ⁻¹	
1		49	1250	✓	✓	✓	✓	✓	✓	✓			2059		DID NOT CLOSE
2		50	1250	✓	✓	✓	✓	✓	✓	✓			3019	0.479	
3		51	1000	✓	✓	✓	✓	✓	✓	✓			3113	0.301	DEPTH WRONG IN FILE
4		52	800	✓	✓	✓	✓	✓	✓	✓		ADD 600 CALLED #53 ✓	3201	0.246	3067 = 0.267
5		53	600	✓	✓	✓	✓	✓	✓	✓			3190	0.409	
6		54	400	✓	✓	✓	✓	✓	✓	✓			2085	0.889	
7		55	300	✓	✓	✓	✓	✓	✓	✓			2061	1.462	
8		56	250	✓	✓	✓	✓	✓	✓	✓			2049	1.909	
9		57	200	✓	✓	✓	✓	✓	✓	✓			3047	2.339	
10		58	175	✓	✓	✓	✓	✓	✓	✓			2047	2.724	
11		59	150	✓	✓	✓	✓	✓	✓	✓			→ 3090	2.935	2068 = 2.925
12		60	125	✓	✓	✓	✓	✓	✓	✓			3151	3.506	
13		61	100	✓	✓	✓	✓	✓	✓	✓			3198	4.425	
14		62	75	✓	✓	✓	✓	✓	✓	✓			2020	5.776	
15		63	50	✓	✓	✓	✓	✓	✓	✓			3121	6.296	
16		64	25	✓	✓	✓	✓	✓	✓	✓			2015	6.632	
17		65	10	✓	✓	✓	✓	✓	✓	✓			3188	6.604	
18		66	5	✓	✓	✓	✓	✓	✓	✓			→ 2090	6.529	2017 = 6.514 LOOP
19															
20															
21													2040	6.635	LOOP P3
22													1485	6.650	P3 - 5m
23															
24															

Watchkeeper(s):

HM

Bottom Depth: 1315 m

Transmisso Cleaned: (Y) N

Time UTC Local

Start 1429 0729

Bottom 1452 0752

End 1531 0831

Positional Information

Lat: 48 ° 38.99 N

Lon: 126 ° 40.01 W

Lat: 48 ° 39.00 N

Lon: 126 ° 40.04 W

Lat: 48 ° 38.98 N

Lon: 126 ° 39.99 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

③ DMS CAST + ONAR + phyto

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: P4 Event #: 13 Ship: TULLY UTC Date (dd|mmm|yyyy): 07 | 06 | 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	CHL	HPLC	DMS	phyto	ONAR	Flask Serial #	Value mL · L ⁻¹	
1		67	300	✓	✓	✓✓									
2		68	200	✓	✓	✓				✓					
3		69	175	✓	✓	✓				✓					
4		70	100	✓	✓	✓		✓		✓					
5		71	75	✓	✓	✓		✓✓							
6		72	50	✓	✓	✓✓		✓							
7		73	40	✓	✓	✓		✓							
8		74	30	✓	✓	✓		✓							
9		75	25	✓	✓	✓		✓	✓✓						
10		76	20	✓	✓✓	✓		✓		✓✓					
11		77	15	✓	✓	✓		✓							
12		78	10	✓	✓	✓		✓	✓✓						
13		79	5	✓	✓	✓		✓	✓✓	✓	✓✓✓				
14		80	5	✓			✓					✓			ONAR
15		81	0		✓	✓		✓✓		✓					
16															
17															
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): H.M.

Bottom Depth: 1311 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1653	0953
Bottom	1658	0958
End	1717	1017

Positional Information
Start
Lat: 48 ° 39.02 N
Lon: 126 ° 40.00 W

Bottom
Lat: 48 ° 39.09 N
Lon: 126 ° 40.03 W

End
Lat: 48 ° 39.07 N
Lon: 126 ° 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: 2010-13 Station: P8 Event #: 18 Ship: TULLY UTC Date (dd|mmm|yyyy): 08|06|10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken				Oxygen Titrations						Comments		
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	CHL	HPLC	UBC						Flask Serial #	Value mL · L ⁻¹
1		88	2000	✓	—	✓	✓✓	✓			✓				1301	—	DIDN'T TRIP
2		89	1500	✓		✓	✓✓	✓✓							1144	0.728	
3		90	1500	✓	—	✓✓	✓✓	✓			✓			2099	3181	—	DIDN'T TRIP
4		91	1250	✓		✓	✓✓	✓			✓				1321	0.454	
5		92	1000	✓		✓	✓✓	✓			✓				1491	0.289	
6		93	800	✓		✓	✓✓	✓			✓				2084	6.257	
7		94	600	✓		✓	✓✓	✓			✓				1180	0.408	
8		95	400	✓		✓	✓✓	✓			✓				1365	0.911	
9		96	300	✓		✓	✓	✓			✓				1476	1.515	
10		97	250	✓		✓	✓	✓							2086	1.935	
11		98	200	✓		✓✓	✓	✓			✓			→	437	2.474	650 = 2.465
12		99	175	✓		✓	✓	✓							1406	2.657	
13		100	150	✓		✓	✓✓	✓			✓				1387	3.258	
14		101	125	✓		✓	✓	✓							1302	4.182	
15		102	100	✓		✓	✓	✓	✓		✓				1201	4.502	
16		103	75	✓		✓	✓	✓	✓✓						3209	6.155	
17		104	50	✓		✓	✓	✓	✓		✓				1407	6.993	
18		105	25	✓		✓	✓	✓	✓✓	✓✓	✓				1411	6.743	
19		106	10	✓		✓✓	✓	✓	✓	✓✓	✓			→	2065	6.677	1317 = 6.676
20		107	5	✓		✓	✓	✓	✓	✓✓					3207	6.683	
21																	
22																	
23																	
24																	

Watchkeeper(s): H.M.

Bottom Depth: 2515 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0835	
Bottom	0908	
End	0950	

Positional Information
Start
Lat: 48 ° 48.98 N
Lon: 128 ° 40.00 W

Bottom
Lat: 48 ° 48.97 N
Lon: 128 ° 40.01 W

End
Lat: 48 ° 48.98 N
Lon: 128 ° 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 DHS CAST + ONA + pH

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: P12

Event #: 22 + 23 Ship: TULLY

UTC Date (dd|mmm|yyyy): 8 | 0 | 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy DHS	Nut	Sal	DMS	CHL	HPLC	ONA	pH	Flask Serial #	Value mL · L ⁻¹	
1		114	1000	✓								✓			
2		115	900	✓								✓			
3		116	800	✓								✓			
4		117	700	✓								✓			
5		118	654	✓								✓			oops
6		119	500	✓								✓			
7		120	400	✓								✓			
8		121	300	✓	✓	✓						✓			
9		122	250	✓								✓			
10		123	200	✓	✓	✓		✓							
11		124	175	✓	✓	✓		✓							
12		125	100	✓	✓	✓		✓	✓						
13		126	75	✓	✓	✓			✓						
14		127	50	✓	✓	✓			✓						
15		128	40	✓	✓	✓			✓						
16		129	30	✓	✓	✓			✓						
17		130	25	✓	✓	✓			✓	✓					
18		131	20	✓	✓	✓		✓	✓						
19		132	15	✓	✓	✓			✓						
20		133	10	✓	✓	✓			✓	✓					
21		134	5	✓	✓	✓		✓	✓	✓					
22		135	5	✓			✓				✓				
23		136	0	✓	✓	✓		✓	✓						
24															

Watchkeeper(s): BY

Bottom Depth: 3235 m

Transmisso Cleaned: (Y) N

	UTC	Local
Time		
Start	2256	1556
Bottom	2312	1612
End	0028	1718

Positional Information

Start

Lat: 48° 58.12 N

Lon: 130° 39.66 W

Bottom

Lat: 48° 58.16 N

Lon: 130° 39.61 W

End

Lat: 48° 58.22 N

Lon: 130° 39.92 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: 2010-13

Station: P12

Event #: 25/26

Ship: TULLY

UTC Date (dd/mmm/yyyy): 9/6/2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	DIC	PH	DO			Flask Serial #	Value mL · L ⁻¹	
1		137	Bot-10	✓		✓				✓			559	2.311	
2		138	3000	✓		✓	✓			✓			2088	2.270	
3		139	3000	✓		✓		✓				→	1393	2.270	1491 = 2.270
4		140	2500	✓		✓			✓				3160	1.854	
5		141	2000	✓		✓				✓			639	1.304	
6		142	1500	✓		✓				✓			1487	0.668	
7		143	1250	✓		✓			✓	✓			1465	0.384	
8		144	1000	✓		✓				✓			632	0.242	
9		145	800	✓		✓				✓		→	552	0.244	1175 = 0.253
10		146	600	✓		✓				✓			1311	0.445	
11		147	400	✓		✓				✓			1496	1.023	
12		148	300	✓						✓			1158	1.323	
13		149	250	✓					✓				1483	1.540	
14		150	200	✓						✓			1306	1.713	
15		151	175	✓									1368	1.884	175m - NOT 150m
16		152	150	✓						✓			620	2.161	
17		153	125	✓		✓						→	1333	2.356	1105 = 2.360
18		154	100	✓						✓			1085	2.873	
19		155	75	✓					✓				611	4.790	
20		156	50	✓		✓				✓			1126	6.362	
21		157	25	✓		✓				✓		→	1206	6.874	510 = 6.855
22		158	10	✓						✓			1218	6.723	
23		159	5										396	6.728	
24		Loop	0										505	6.693	

Watchkeeper(s): dy

Bottom Depth: 3233 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0955	1755
Bottom	0210	1910
End	0327	2027

Positional Information

Start
Lat: 48° 58.20 N
Lon: 130° 40.00 W

Bottom
Lat: 48° 58.21 N
Lon: 130° 40.08 W

End
Lat: 48° 58.21 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

* NO WATER ON FLASKS
(NOT SHAKEN TWICE?)

DIC: S. Seth P. Mene
OXY: Doug

③ UBC east

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: P12

Event #: 27

Ship: TULLY

UTC Date (dd|mmm|yyyy): 9 June 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	UBC					Flask Serial #	Value mL · L ⁻¹	
1		160	2000	✓											→ "SPARE"
2		161	2000	✓											
3		162	2000	✓											
4		163	2000	✓		✓✓	✓	✓							
5		164	2000	✓											→ CONSTANT
6		165	1000	✓											
7		166	1000	✓											
8		167	1000	✓		✓✓	✓	✓							
9		168	500	✓											
10		169	500	✓											
11		170	500	✓		✓✓	✓	✓							
12		171	100	✓											
13		172	100	✓											
14		173	100	✓		X	X	X							didn't need 100m
15		171	10												
16		172	10												
17		173	10			✓	✓	✓							
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): dy

Bottom Depth: 3235 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	<u>0446</u>	<u>2146</u>
Bottom	<u>0517</u>	<u>2217</u>
End	<u>0553</u>	<u>2253</u>

Positional Information

Start

Lat: 48° 58.20 N

Lon: 130° 40.01 W

Bottom

Lat: 48° 58.28 N

Lon: 130° 40.10 W

End

Lat: 48° 58.39 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: 2010-13 Station: P13 Event #: 28 Ship: TULLY UTC Date (dd|mmm|yyyy): 9 | 6 | 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	CHL	HPLC				Flask Serial #	Value mL · L ⁻¹	
1		174	2000	✓	✓		✓						1301	1.325	
2		175	1500	✓	✓								1144	0.616	
3		176	1000	✓	✓								3181	0.283	
4		177	800	✓	✓✓							→	2099	0.356	1321 = 0.360
5		178	600	✓	✓								1481	0.589	
6		179	400	✓	✓								2084	1.091	
7		180	200	✓	✓								1180	3.127	
8		181	100	✓	✓								1365	5.881	
9		182	75	✓	✓								1476	6.468	
10	CHL MAX	183	30	✓	✓		✓	✓	✓✓				2086	6.695	
11		184	5	✓	✓	✓	✓	✓	✓✓				437	6.678	
12			Loop										650	6.682	P13 Loop
13			Loop										1387	6.669	P18 Loop
14		245	5										1406	6.655	P18 5m
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): H.M.

Bottom Depth: 3003 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1432	0732
Bottom	1505	0805
End	1544	0844

Positional Information
Start
Lat: 49 ° 02 . 59 N
Lon: 131 ° 40 . 00 W

Bottom
Lat: 49 ° 02 . 59 N
Lon: 131 ° 40 . 01 W

End
Lat: 49 ° 02 . 61 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

UBC CAST

2010-13-PI6-UBC

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: PI6 Event #: 33 Ship: TULLY UTC Date (dd|mmm|yyyy): 10 | 6 | 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		189	2000	✓						BOT #1 - DIDN'T TRIP SPARE / CONSTANCE
2		190	2000	✓						
3		191	2000	✓						
4		192	2000	✓		✓✓	✓			
5		193	1000	✓						
6		194	1000	✓						
7		195	1000	✓		✓✓	✓			
8		196	500							
9		197	500							
10		198	500			✓✓	✓			
11		199	10							
12		200	10							
13		201	10			✓	✓			
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

Watchkeeper(s): H.M

Bottom Depth: 3634 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	11 23	04 23
Bottom	1200	0500
End	1239	0539

Positional Information

Start

Lat: 49 ° 16.99 N

Lon: 134 ° 39.97 W

Bottom

Lat: 49 ° 16.99 N

Lon: 134 ° 39.97 W

End

Lat: 49 ° 17.00 N

Lon: 134 ° 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

IOS Deep Cast

2010-13-PI6-UBC-Deep
2010-13-PI6-IOs

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: PI6 Event #: 35/36 Ship: TULLY UTC Date (dd|mmm|yyyy): 10 | 6 | 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments		
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	DIC	pH	UBC	Flask Serial #	Value mL · L ⁻¹					
1		202	Bot-10	✓	3681	✓	✓	✓	✓	✓					559	2.808	
2		203	3500	✓		✓	✓	✓	✓	✓					2088	2.737	
3		204	3500	✓		✓	✓	✓	✓	✓					1393	2.740	
4		205	3000	✓		✓✓	✓	✓	✓	✓			→		1491	2.481	3160 -- 2.490
5		206	2500	✓		✓	✓	✓	✓	✓					639	1.989	
6		207	2000	✓		✓	✓✓	✓	✓	✓					1487	1.292	
7		208	1500	✓		✓	✓	✓	✓	✓					1465	0.584	
8		209	1250	✓		✓	✓	✓	✓	✓					632	6.337	
9		210	1000	✓		✓	✓	✓	✓	✓			→		552	0.311	1175 = 0.292
10		211	800	✓		✓	✓	✓	✓	✓					1311	0.383	
11		212	600	✓		✓	✓	✓	✓	✓					1496	0.672	
12		213	400	✓		✓	✓✓	✓	✓	✓					1150	1.729	
13		214	300	✓		✓	✓	✓	✓	✓			→		1483	2.534	1306 = 2.545
14		215	250	✓		✓	✓	✓	✓	✓					1368	3.300	
15		216	200	✓		✓	✓	✓	✓	✓					620	4.172	
16		217	175	✓		✓	✓	✓	✓	✓					1333	4.483	
17		218	150	✓		✓	✓	✓	✓	✓					1105	4.864	
18		219	125	✓		✓	✓	✓	✓	✓					1085	5.362	
19		220	100	✓		✓	✓	✓	✓	✓					611	6.124	
20		221	75	✓		✓	✓	✓	✓	✓					1126	6.895	
21		222	50	✓		✓	✓	✓	✓	✓					1206	7.033	
22		223	25	✓		✓	✓	✓	✓	✓					510	6.675	
23		224	10	✓		✓	✓	✓	✓	✓					1218	6.656	
24		225	5	✓		✓	✓	✓	✓	✓					396	6.655	

Watchkeeper(s): H.M.

Bottom Depth: 3634 m
Transmisso Cleaned: (Y) / N

	UTC	Local
Start	1359	0659
Bottom	1501	0801
End	1644	0944

Positional Information
Start
Lat: 49 ° 17.00 N
Lon: 134 ° 39.96 W

Bottom
Lat: 49 ° 16.97 N
Lon: 134 ° 40.00 W

End
Lat: 49 ° 16.99 N
Lon: 134 ° 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

505 6.656 P 17-LOOP
1142 6.664 P 17-5m

DMS Cast

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: P16 Event #: 37 Ship: TULLY UTC Date (dd|mmm|yyyy): 10 | 6 | 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy DMS	Nut	Sal	DMS End	CHL	HPLC	PH	ONAR	Flask Serial #	Value mL · L ⁻¹	
1		226	500	✓							✓				
2		227	400	✓							✓				
3		228	300	✓	✓	✓					✓				TOP VALUE OPEN
4		229	200	✓	✓	✓✓		✓			✓				
5		230	175	✓	✓	✓		✓							
6		231	100	✓	✓	✓		✓	✓		✓				
7		232	75	✓	✓	✓			✓						
8		233	50	✓	✓	✓			✓		✓				
9		234	40	✓	✓	✓			✓✓						
10		235	30	✓	✓	✓✓			✓						
11		236	25	✓	✓	✓			✓	✓✓					
12		237	20	✓	✓✓	✓		✓✓	✓						
13		238	15	✓	✓	✓			✓✓						
14		239	10	✓	✓	✓			✓	✓✓					
15		240	5	✓	✓	✓		✓	✓	✓✓					
16		241	5	✓			✓					✓			
17		242	0	✓	✓	✓		✓	✓						
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): H.M.

Bottom Depth: 3634 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1803	1103
Bottom	1813	1113
End	1836	1136

Positional Information

Start Lat: 49 ° 17.03 N
Lon: 134 ° 40.01 W

Bottom Lat: 49 ° 17.03 N
Lon: 134 ° 40.01 W

End Lat: 49 ° 17.00 N
Lon: 134 ° 40.02 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 DEEP CAST

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: P20 Event #: 41 Ship: TULLY UTC Date (dd|mmm|yyyy): 11 | 6 | 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments		
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	DIC	PH	URG						Flask Serial #	Value mL • L ⁻¹
1		249	800	✓	4023	✓	✓✓	✓	✓	✓					557	3.113	
2		250	3500	✓		✓	✓✓	✓✓							1470	2.922	
3		251	3000	✓		✓✓	✓✓	✓	✓			? Too Low	→	1386	0.555	3187 = 0.592 ? Too Low	
4		252	3000	✓		✓	✓✓			✓	✓			1373	2.544		
5		253	2500	✓		✓	✓✓							1337	1.935		
6		254	2000	✓		✓	✓✓				✓			1134	1.320		
7		255	1500	✓		✓	✓✓				✓			631	0.577		
8		256	1250	✓		✓	✓✓				✓			1248	0.348		
9		257	1000	✓		✓	✓✓				✓						- missed?
10		258	800	✓		✓	✓✓				✓			1319	0.416		
10 or 11		259	600	✓	2-tripped	✓✓	✓✓				✓	1489 = 0.541	→	1146	0.542	- back in order	
12		260	400	✓		✓	✓✓				✓			690	1.136		
13		261	300	✓		✓	✓			✓	✓			2027	2.039		
14		262	250	✓		✓	✓							3182	2.672		
15		263	200	✓		✓✓	✓✓				✓		→	520	3.672	3157 = 3.651	
16		264	175	✓		✓	✓							371	4.090		
17		265	150	✓		✓	✓			✓	✓			1374	4.589		
18		266	125	✓		✓	✓							621	5.102		
19		267	100	✓		✓	✓				✓			569	6.126		
20		268	75	✓		✓	✓			✓				647	6.951		
21		269	50	✓		✓✓	✓				✓		→	1475	6.890	1378 = 6.879	
22		270	25	✓		✓	✓✓				✓			1261	6.820		
23		271	10	✓		✓	✓				✓			196	6.888		
24		272	5	✓		✓	✓							468	6.765		

Watchkeeper(s): H.M.

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

	UTC	Local
Time		
Start	1643	0943
Bottom	1745	1045
End	1913	1213

Positional Information
Start
Lat: 49 ° 33.98 N
Lon: 138 ° 39.98 W

Bottom
Lat: 49 ° 34.01 N
Lon: 138 ° 40.02 W

End
Lat: 49 ° 33.97 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

(2) DMS CAST

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: P20 Event #: 43 Ship: TULLY UTC Date (dd|mmm|yyyy): 11 June 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy DMS	Nut	Sal	DMSP L-2	CHC	HPLC	ONH		Flask Serial #	Value mL · L ⁻¹	
1		273	300	✓	✓	✓									No sample
2		274	200	✓	✓	✓		✓							
3		275	175	✓	✓	✓		✓							
4		276	100	✓	✓	✓		✓	✓						
5		277	75	✓	✓	✓			✓						
6		278	50	✓	✓	✓			✓						
7		279	40	✓	✓	✓			✓						
8		280	30	✓	✓	✓			✓						
9		281	25	✓	✓	✓			✓	✓					
10		282	20	✓	✓	✓		✓	✓						
11		283	15	✓	✓	✓			✓						
12		284	10	✓	✓	✓		✓	✓	✓					
13		285	5	✓	✓	✓		✓	✓	✓					
14		286	5	✓			✓				✓				
15		287	0	✓	✓	✓		✓	✓						
16															
17															
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): DY

Bottom Depth: 3860 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2052	1352
Bottom	2057	1357
End	2113	1413

Positional Information
Start
Lat: 49 ° 34.10 N
Lon: 138 ° 40.77 W

Bottom
Lat: 49 ° 34.12 N
Lon: 138 ° 40.81 W

End
Lat: 49 ° 34.17 N
Lon: 138 ° 40.90 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

③ UBC + YIMING CAST

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: P20 Event #: 45 Ship: TULLY UTC Date (dd|mmm|yyyy): 11|6|10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	WML					Flask Serial #	Value mL · L ⁻¹	
1		288	2500	✓											SPARE
2		289	2500	✓											} YIMING
3		290	2500	✓											
4		291	2500	✓											
5		292	2500	✓											} CONSTANCE / MIKE
6		293	2500	✓											
7		294	2000	✓		✓✓	✓	✓							
8		295	2000	✓											
9		296	2000	✓											
10		297	1000	✓		✓✓	✓	✓							
11		298	1000	✓											
12		299	1000	✓											
13		300	500	✓		✓✓	✓	✓							
14		301	500	✓											
15		302	500	✓											
16		303	10	✓		✓	✓	✓							
17		304	10	✓											
18		305	10	✓											
19															
20															
21															
22															
23															
24															

Watchkeeper(s): DY

Bottom Depth: 3966 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	2205	1505
Bottom	2249	1549
End	2336	1636

Positional Information
Start
Lat: 49 ° 34.03 N
Lon: 138 ° 40.03 W

Bottom
Lat: 49 ° 34.02 N
Lon: 138 ° 39.98 W

End
Lat: 49 ° 34.09 N
Lon: 138 ° 40.10 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

① Roger (Th 230)

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: P26

Event #: 47

Ship: TULLY

UTC Date (dd|mmm|yyyy): 13 | 6 | 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		308	200	✓											
2		309	200	✓											
3		310	200	✓											
4		311	200	✓											
5		312	200	✓											
6		313	200	✓											
7		314	100	✓											
8		315	100	✓											
9		316	100	✓											
10		317	100	✓											
11		318	100	✓											
12		319	100	✓											
13		320	60	✓											
14		321	60	✓											
15		322	60	✓											
16		323	60	✓											
17		324	60	✓											
18		325	60	✓											
19		326	20	✓											
20		327	20	✓											
21		328	20	✓											
22		329	20	✓											
23		330	20	✓											
24		331	20	✓											

Watchkeeper(s): DY

Bottom Depth: 4252 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2030	1330
Bottom	2033	1333
End	2042	1342

Positional Information

Start Lat: 49 ° 59.96 N
Lon: 144 ° 59.88 W

Start

Bottom Lat: 49 ° 59.94 N
Lon: 144 ° 59.88 W

Bottom

End Lat: 49 ° 59.95 N
Lon: 144 ° 59.87 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

② DMS cast

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: P26 Event #: 48 Ship: TULLY UTC Date (dd|mmm|yyyy): 13 | 6 | 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken										Oxygen Titrations		Comments
			Target Pressure	Confirmed ✓ Pressure	DMS DMS	Nut	CHL CHL	HPLC	ph _{td}	DMS _P					Flask Serial #	Value mL · L ⁻¹	
1		332	300	✓													
2		333	300	✓	✓	✓											
3		334	200	✓	✓	✓				✓							
4		335	175	✓	✓	✓				✓							
5		336	100	✓	✓	✓	✓			✓							
6		337	75	✓	✓	✓	✓										
7		338	50	✓	✓	✓	✓										
8		339	40	✓	✓	✓	✓										
9		340	30	✓	✓	✓	✓										
10		341	25	✓	✓	✓	✓	✓									
11		342	20	✓	✓	✓	✓			✓							
12		343	15	✓	✓	✓	✓										
13		344	10	✓	✓	✓	✓	✓									
14		345	5	✓	✓	✓	✓	✓	✓	✓							
15		346	0	✓	✓	✓				✓							
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): dy

Bottom Depth: 4252 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2127	1427
Bottom	2132	1432
End	2149	1449

Positional Information
Start
Lat: 50 ° 0.00 N
Lon: 144 ° 59.92 W

Bottom
Lat: 49 ° 59.97 N
Lon: 144 ° 59.92 W

End
Lat: 49 ° 59.91 N
Lon: 144 ° 59.96 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

③ IOS Deep Cast

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: P26

Event #: 49

Ship: TULLY

UTC Date (dd|mmm|yyyy): 13th | 6 | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken								Oxygen Titrations		Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	DIC	Aik	PH	UOC		Flask Serial #	Value mL · L ⁻¹	
1		347	3000	✓	✓	3	✓	✓	✓	✓			559	3.201	
2		348	4000	✓		7	✓	✓	✓		✓		2088	3.163	
3		349	3500	✓	✓	3	✓			✓		→	1393	2.958	1491 = 2.957
4		350	3000	✓		3					✓		3160	2.565	
5		351	2500	✓		4							639	1.969	
6		352	2000	✓		3					✓		1487	1.340	
7		353	1500	✓		3					✓		1465	0.632	
8		354	1250	✓		3					✓		632	0.419	
9		355	1000	✓		7				✓	✓		552	0.390	
10		356	800	✓		✓	5				✓	→	1175	0.432	1311 = 0.432
11		357	600	✓		7					✓		1496	0.494	
12		358	400	✓		7					✓		1158	0.843	
13		359	300	✓		2					✓		1483	1.351	
14		360	250	✓		6				✓			1306	1.735	
15		361	200	✓		2					✓		1368	2.616	
16		362	175	✓		✓	2					→	620	3.167	1333 = 3.147
17		363	150	✓		2					✓		1105	3.703	
18		364	125	✓		2							1085	4.441	} two tripped @ 125
19		365	100	✓		2					✓		611	4.463	
20		366	75	✓		✓	2			✓		→	1126	6.927	1206 = 7.478
21		367	50	✓		3					✓		510	6.980	
22		368	25	✓		2					✓		1218	6.973	
23		369	10	✓		6					✓		396	6.958	
24		370	5			2		✓	✓	✓	✓		505	6.975	
													1301	6.984	Loop

Version: 2 November 2009

Transmissometer to be cleaned before each cast, do not use Ammonia products

Watchkeeper(s): 24

Bottom Depth: 4252 m

Transmissometer Cleaned: (Y) / N

Time	UTC	Local
Start	2246	1546
Bottom	0000	1700
End	0127	1837

Positional Information

Start

Lat: 44° 59.99 N

Lon: 144° 59.88 W

Bottom

Lat: 50° 0.01 N

Lon: 144° 59.96 W

End

Lat: 50° 0.00 N

Lon: 144° 59.93 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: _____

Analyst: _____

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

④ UBC east

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: P26 Event #: 50 Ship: TULLY UTC Date (dd|mmm|yyyy): 14 | 6 | 2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken				Oxygen Titrations		Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	UBC	Flask Serial #	Value mL · L ⁻¹	
1		371	2000	✓							
2		372	2000	✓							
3		373	2000	✓							
4		374	2000	✓							
5		375	2000	✓		✓✓	✓	✓			
6		376	1000	✓							
7		377	1000	✓							
8		378	1000	✓							
9		379	1000	✓		✓✓	✓	✓			
10		380	500	✓							
11		381	500	✓							
12		382	500	✓							
13		383	500	✓		✓✓	✓	✓			
14		384	10	✓							
15		385	10	✓							
16		386	10	✓							
17		387	10	✓		✓	✓	✓			
18											
19											
20											
21											
22											
23											
24											

Watchkeeper(s): RY

Bottom Depth: 4252 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	<u>0303</u>	<u>2003</u>
Bottom	<u>0337</u>	<u>2037</u>
End	<u>0412</u>	<u>2112</u>

Positional Information
Start
Lat: 50 ° 0.04 N
Lon: 144 ° 59.74 W

Bottom
Lat: 49 ° 59.96 N
Lon: 144 ° 59.84 W

End
Lat: 49 ° 59.96 N
Lon: 144 ° 59.84 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

⑤ Roger Th230

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: P26 Event #: 51 Ship: TULLY UTC Date (dd|mmm|yyyy): 14 | 06 | 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		388	1600	✓						
2		389	1600	✓						
3		390	1400	✓						
4		391	1400	✓						
5		392	1200	✓						
6		393	1200	✓						
7		394	1000	✓						
8		395	1000	✓						
9		396	800	✓						
10		397	800	✓						
11		398	600	✓						
12		399	600	✓						
13		400	400	✓						
14		401	400	✓						
15		402	400	✓						
16		403	400	✓						
17		404	400	✓						
18		405	400	✓						
19		406	300	✓						
20		407	300	✓						
21		408	300	✓						
22		409	300	✓						
23		410	300	✓						
24		411	300	✓						

Watchkeeper(s): HM.

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

Time	UTC	Local
Start	0711	0011
Bottom	0738	0038
End	0814	0114

Positional Information
Start
Lat: 50 ° 00 . 00 N
Lon: 144 ° 59 . 90 W

Bottom
Lat: 49 ° ° 59 . 99 N
Lon: 144 ° 59 . 98 W

End
Lat: 50 ° 00 . 01 N
Lon: 144 ° 59 . 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

⑥ Roger Ba + ONA

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: P26

Event #: 52

Ship: TULLY

UTC Date (dd|mmm|yyyy): 14 | 6 | 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		412	30	✓						} ROGER
2		413	30	✓						
3		414	30	✓						
4		415	30	✓						
5		416	30	✓						
6		417	30	✓						
7		418	30	✓						
8		419	30	✓						
9		420	30	✓						
10		421	30	✓						
11		422	30	✓						
12		423	30	✓						
13		424	20	✓						
14		425	10	✓						
15		426	5	✓						
16		427	0	✓						
17										
18										
19										
20										
21										
22										
23										
24										

Watchkeeper(s): H.M.

Bottom Depth: 4252 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	0849	0144
Bottom	0851	
End	0857	0157

Positional Information

Start Lat: 49 ° 59.98 N
Lon: 144 ° 59.89 W

Start

Bottom

Lat: 49 ° 59.99 N
Lon: 144 ° 59.91 W

End

Lat: 49 ° 59.99 N
Lon: 144 ° 59.94 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

⑦ ONA_r + pH

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: PA-004

Event #: 54

Ship: TULLY

UTC Date (dd|mmm|yyyy): 14/11/2010

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken			Oxygen Titrations					Comments	
			Target Pressure	Confirmed Pressure	W Oxy	Nut	Sal	Flask Serial #	Value mL · L ⁻¹					
1		428	500	✓		✓	✓							
2		429	450	✓		✓	✓							
3		430	400	✓		✓	✓							
4		431	300	✓		✓	✓							
5		432	250	✓	✓	✓	✓		✓				OW Oxy	
6		433	200	✓	✓	✓	✓		✓					
7		434	150	✓	✓	✓	✓		✓					
8		435	125	✓	✓	✓	✓		✓					
9		436	100	✓	✓	✓	✓		✓					
10		437	75	✓	✓	✓	✓		✓					
11		438	50	✓	✓	✓	✓		✓					
12		439	30	✓	✓	✓	✓	✓	✓	✓				
13		440	20	✓	✓	✓	✓	✓	✓	✓				
14		441	10	✓	✓	✓	✓	✓	✓	✓				
15		442	5		✓	✓	✓	✓	✓	✓				
16		443	0		✓	✓	✓	✓	✓	✓				
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): dy

Bottom Depth: 4230 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2347	1647
Bottom	2356	1656
End	0015	1715

Positional Information

Start Lat: 50 ° 2.86 N
Lon: 144 ° 52.92 W

Bottom Lat: 50 ° 2.81 N
Lon: 144 ° 52.90 W

End Lat: 50 ° 2.78 N
Lon: 144 ° 52.94 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 ONAC @ PA-004 CTD to 300 m.

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: PA-004 Event #: 63 Ship: TULLY UTC Date (dd|mmm|yyyy): 16 | 6 | 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken									Oxygen Titrations		Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal		pH	ONAC				Flask Serial #	Value mL · L ⁻¹	
1		444	30	✓		✓			✓	✓						
2		445	20	✓		✓			✓	✓						
3		446	10	✓		✓			✓	✓						
4		447	5	✓		✓	✓		✓	✓						
5		448	0	✓		✓	✓		✓	✓						
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): 159

Bottom Depth: 4229 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2205	1505
Bottom	2211	1511
End	2220	1520

Positional Information
Start
Lat: 50 ° 2.84 N
Lon: 144 ° 52.66 W

Bottom
Lat: 50 ° 2.89 N
Lon: 144 ° 52.65 W

End
Lat: 50 ° 2.88 N
Lon: 144 ° 52.59 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

⑨ Roger 200m Pa

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: P26 Event #: 65 Ship: TULLY UTC Date (dd|mmm|yyyy): 17 | 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		449	200	✓											
2		450	200	✓											
3		451	200	✓											
4		452	200	✓											
5		453	200	✓											
6		454	200	✓											
7		455	100	✓											
8		456	100	✓											
9		457	100	✓											
10		458	100	✓											
11		459	100	✓											
12		460	100	✓											
13		461	60	✓											
14		462	60	✓											
15		463	60	✓											
16		464	60	✓											
17		465	60	✓											
18		466	60	✓											
19		467	20	✓											
20		468	20	✓											
21		469	20	✓											
22		470	20	✓											
23		471	20	✓											
24		472	20	✓											

Watchkeeper(s): MR

Bottom Depth: 4252 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0141	1841
Bottom	0145	1842
End	0153	1853

Positional Information

Start

Lat: 49 ° 59.97 N

Lon: 144 ° 59.96 W

Bottom

Lat: 49 ° 59.98 N

Lon: 144 ° 59.95 W

End

Lat: 49 ° 59.96 N

Lon: 145 ° 00.02 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

10 Yiming

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: P26 Event #: 67 Ship: Tully UTC Date (dd|mmm|yyyy): 16 12 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		473	1600	✓											
2		474	1400	✓											
3		475	1200	✓											
4		476	1000	✓											
5		477	800	✓											
6		478	600	✓											
7		479	400	✓											
8		480	350	✓											
9		481	300	✓											
10		482	250	✓											
11		483	200	✓											
12		484	175	✓											
13		485	150	✓											
14		486	125	✓											
15		487	100	✓											
16		488	80	✓											
17		489	60	✓											
18		490	60	✓											
19		491	40	✓											
20		492	40	✓											
21		493	20	✓											
22		494	20	✓											
23		495	10	✓											
24		496	10	✓											

Watchkeeper(s): DY

Bottom Depth: 4252 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0338	2038
Bottom	0406	2106
End	0451	2151

Positional Information
Start
Lat: 49 ° 59.92 N
Lon: 144 ° 59.98 W

Bottom
Lat: 49 ° 59.99 N
Lon: 144 ° 59.99 W

End
Lat: 50 ° 0.01 N
Lon: 144 ° 59.99 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

⑪ Roger 1600 m Pa

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: P26

Event #: 68

Ship: Tully

UTC Date (dd|mmm|yyyy): 17 | 6 | 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		497	1600	✓											
2		498	1600	✓											
3		499	1400	✓											
4		500	1400	✓											
5		501	1200	✓											
6		502	1200	✓											
7		503	1000	✓											
8		504	1000	✓											
9		505	800	✓											
10		506	800	✓											
11		507	600	✓											
12		508	600	✓											
13		509	400	✓											
14		510	400	✓											
15		511	400	✓											
16		512	400	✓											
17		513	400	✓											
18		514	400	✓											
19		515	300	✓											
20		516	300	✓											
21		517	300	✓											
22		518	300	✓											
23		519	300	✓											
24		520	300	✓											

Watchkeeper(s): DJ

Bottom Depth: 4252 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0550	2250
Bottom	0615	2315
End	0647	2347

Positional Information

Start

Lat: 49° 59.95 N

Lon: 145° 0.00 W

Bottom

Lat: 50° 0.01 N

Lon: 145° 0.00 W

End

Lat: 49° 59.98 N

Lon: 145° 0.00 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

(12) 1000m Roger + ONA

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: P26 Event #: 69 Ship: Roller UTC Date (dd|mmm|yyyy): 17 | 6 | 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	2	521	1000	✓											
2	3	522	1000	✓											
3	14	523	1000	✓			✓								
4	4	524	500	✓											
5	5	525	500	✓											
6	15	526	500	✓			✓								
7	6	527	250	✓											
8	7	528	250	✓											
9	8	529	200	✓											
10	9	530	200	✓											
11	16	531	150	✓			✓								
12	10	532	100	✓											
13	11	533	100	✓											
14	17	534	50	✓			✓								
15	12	535	10	✓											
16	13	536	10	✓											
17	18	537	5				✓								
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): H.M.

Bottom Depth: 4251 m
Transmisso Cleaned: Q / N

Time	UTC	Local
Start	0739	0039
Bottom	0755	0055
End	0823	0123

Positional Information
Start
Lat: 50 ° 00.01 N
Lon: 144 ° 59.95 W

Bottom
Lat: 50 ° 00.01 N
Lon: 145 ° 00.00 W

End
Lat: 50 ° 00.01 N
Lon: 145 ° 00.05 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

(13) ONA 200m (Down to 300m)

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: PA-003 Event #: 70 Ship: TULLY UTC Date (dd|mmm|yyyy): 17 | 6 | 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	2	538	200	✓			✓			FORGOT TO TAKE
2	3	539	150	✓			✓			CAP OFF PH SENSOR
3	4	540	100	✓			✓			
4	5	541	50	✓			✓			
5	6	542	10	✓			✓			
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: 4275 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1207	0507
Bottom	1213	0513
End	1222	0522

Positional Information
Start
Lat: 50 ° 07.51 N
Lon: 144 ° 48.95 W

Bottom
Lat: 50 ° 07.48 N
Lon: 144 ° 48.93 W

End
Lat: 50 ° 07.44 N
Lon: 144 ° 48.95 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

14 Deep Cast Roger + ONA

Water Properties Group

Rosette Log

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

Cruise ID: 2010-13 Station: P26

Event #: 72

Ship: TULLY

UTC Date (dd|mmm|yyyy): 17 | 6 | 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	2	543	Bot-10	✓ 4315						
2	3	544	Bot-10	✓						
3	4	545	4000	✓						
4	5	546	4000	✓						
5	16	547	4000	✓	✓		✓			
6	6	548	3500	✓						
7	7	549	3500	✓						
8	8	550	3000	✓						
9	9	551	3000	✓						
10	17	552	3000	✓	✓		✓			
11	10	553	2500	✓						
12	11	554	2500	✓						
13	12	555	2000	✓						
14	13	556	2000	✓						
15	18	557	2000	✓	✓		✓			
16	19	558	1700	✓	✓		✓			
17	14	559	1500	✓						
18	15	560	1500	✓						
19	20	561	1400	✓	✓		✓			
20										
21										
22										
23										
24										

Watchkeeper(s):

Bottom Depth: 4252 m

Transmisso Cleaned: 01 N

Time	UTC	Local
Start	2305	1605
Bottom	0008	1708
End	0125	1825

Positional Information

Start

Lat: 50 ° 0.01 N

Lon: 145 ° 0.01 W

Bottom

Lat: 49 ° 59.98 N

Lon: 145 ° 00.01 W

End

Lat: 50 ° 0.00 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: 2010-13 Station: P24Event #: 77Ship: TULLYUTC Date (dd|mmm|yyyy): 18 | 6 | 10

Firing #	Niskin #	Sample #	Rosette Operation		Samples Taken			Oxygen Titrations						Comments	
			Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	DIC	pH	CHL	HPLC	Flask Serial #	Value mL · L ⁻¹		
1		566	2000	☒											
2		567	2000	☒				✓							
3		568		☒				✓							
4		569		☒				✓							
5		570		☒				✓							
6		571		☒				✓							
7		572		☒					✓						
8		573		☒					✓						
9		574		☒					✓						
10		575		☒					✓						
11		576		☒					✓						
12		577		☒											
13		578		☒											
14		579		☒											
15		580		☒											
16		581		☒											
17		582		☒											
18		583		☒											
19		584		☒											
20		585	2000	☒											
21		586	2000	☒											
22		587	2000	☒											
23		588	CHL MAX							✓	✓				
24		589	5							✓	✓				

Watchkeeper(s): H.M.Bottom Depth: 3939 mTransmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1547	0847
Bottom	1615	0915
End	1651	0951

Positional Information

Start
Lat: 49 ° 50.18 N
Lon: 142 ° 39.97 WBottom
Lat: 49 ° 50.19 N
Lon: 142 ° 39.99 WEnd
Lat: 49 ° 50.21 N
Lon: 142 ° 40.00 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: 2010-13

Station: P19

Event #: 999

Ship: TULLY

UTC Date (dd|mmm|yyyy): ____ | ____ | ____

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄						
1	Loop	1201	7.139													P19 Loop
2	248	1302	6.723													P19 5m
3	Loop	1327	6.965													P21 Loop
4	307	570	6.821													P21 5m
5	Loop	1490	4.248													P35 Loop
6	563	1144	4.206													P35 5m
7	565	3181	4.427													P25 5m
8	Loop	2099	3.258													P25 Loop
9	589	1320	4.230													P24 5m
10	Loop	1481	4.296													P24 Loop
11	Loop	2084	3.923													P23 Loop
12	591	1180	4.303													P23 5m
13	593	1476	4.272													P22 5m
14	Loop	1365	?	NOT FOUND												P22 Loop
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s):

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start	Lat: _____ °	N
	Lon: _____ °	W
Bottom	Lat: _____ °	N
	Lon: _____ °	W
End	Lat: _____ °	N
	Lon: _____ °	W

Oxygen Info For This Cast

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

*Date Run: ____ | ____ | ____

Analyst: _____

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

ROSETTE LOG

LOOPS + 5m BOTTLES

MISSION ID: 2010-13 STATION: ALL CAST NUMBER: ALL UTC DATE (dd/mm/yyyy): 10/6/10

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
						OXY				ALK		CHL						
1	Loop	1326	6.479															P5 Loop
2	83	144	6.529	5m														P5-5m
3	Loop	1327	6.685															P6 Loop
4	85	570	6.719	5m														P6-5m
5	87	1490	6.725	5m														P7-5m
6	Loop	3051	6.664															P7 Loop
7	Loop	2056	6.618															P9-Loop
8	109	3133	6.629	5m														P9-5m
9	Loop	3116	6.700															P10 Loop
10	111	612	6.669	5m														P10-5m
11	Loop	1335	6.672															P11 Loop
12	113	3178	6.732	5m														P11-5m
13	Loop	2000	6.725															P14 Loop
14	186	3135	6.688	5m														P14-5m
15	188	1460	6.680	5m														P15-5m
16	Loop	3194	6.711															P15 Loop
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: TULLY
ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG: