

Water Properties Group

Rosette Log

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

Cruise ID: 2012 25 Station: SI 03 Event #: 1 Ship: TULCY UTC Date (dd|mmm|yyyy): 12 | 05 | 2012

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄						
1	1	Bot-70			✓ 215.2	✓										
2	2	200			✓ 200	✓		✓								
3	3	175			✓ 174.9	✓✓										
4	4	150			✓ 149.9	✓										
5	5	125			✓ 125.4	✓										
6	6	100			✓ 100	✓										
7	7	75			✓ 75	✓										
8	8	50			✓ 50	✓										
9	9	30			✓ 30	✓✓										
10	10	20			✓ 20	✓										
11	11	10			✓ 9.7	✓										
12	12	5			✓ 5.2	✓		✓								
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): DT

Bottom Depth: 225.31 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Start	<u>2136</u>	<u>1436</u>
Bottom	<u>2143</u>	<u>1443</u>
End	<u>2201</u>	<u>1501</u>

Positional Information

Start

Lat: 48 ° 35 340 N

Lon: 123 ° 30 120 W

Bottom

Lat: 48 ° 35 335 N

Lon: 123 ° 30 130 W

End

Lat: 48 ° 35 330 N

Lon: 123 ° 30 100 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: 2012-25

Station: LB01

Event #: 2

Ship: TULLY

UTC Date (dd|mmm|yyyy): 13 | May | 2012

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC					
1	13			307-10	☒ 24	x	x		xx	xx						
2	14			10	☒	x	x		xx	xx						
3	15			5	☒	xx	x	x	xx	xx	xx					3.5 chl
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): DT/SR

Bottom Depth: 31 m

Transmisso Cleaned: ☒ Y / N

Time	¹⁰⁵ UTC	Local
Start	0358	>
Bottom	0359	
End	0404	

Positional Information
 Lat: 48 ° 40.40 N
 Lon: 124 ° 56.54 W

Start

Lat: 48 ° 40.40 N
 Lon: 124 ° 69.54 W

Bottom

Lat: 48 ° 40.40 N
 Lon: 124 ° 69.54 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

Sampling Log

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

Cruise ID: 2012-25 Station: LBO2 Event #: 3 Ship: TULLY UTC Date (dd mmm/yyyy): 13 MAY 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	O ₂	N ₂	F	SAL	CHL	NH ₄	HPIC	POM		Gases	
1	1	16	Bot-10		✓	✓								✓✓	
2	2	17	30		✓	✓✓								✓✓	
3	3	18	20		✓	✓			✓✓	✓✓				✓✓✓	
4	4	19	10		✓✓	✓			✓✓	✓✓				✓✓	
5	5	20	5		✓	✓	✓		✓✓	✓✓	✓✓			✓✓	
6	7	21	CHAX	0?								✓			
7	6	22	5									✓			
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): SR

Bottom Depth: 36 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1138	0438
Bottom	1140	
End	1151	

Positional Information
 Start
 Lat: 48° 39.02 N
 Lon: 125° 2.42 W

Bottom
 Lat: 48° 39.02 N
 Lon: 125° 2.43 W

End
 Lat: 48° 39.02 N
 Lon: 125° 2.45 W

Extra comments:
Out of order

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25

Station: LB03

Event #: 4

Ship: Tully

UTC Date (dd|mmm|yyyy): 13 | MAY | 2012

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	HPK			
1	23			5m					X	XX				Chl ~ 1.6
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): SR

Bottom Depth: 95 m

Transmisso Cleaned: Y / N

	UTC	Local
Time Start	1256	0556
Bottom	1258	
End	1302	

Positional Information
 Start
 Lat: 48 ° 37.38 N
 Lon: 125 ° 5.75 W

Bottom
 Lat: 48 ° 37.39 N
 Lon: 125 ° 5.77 W

End
 Lat: 48 ° 37.37 N
 Lon: 125 ° 5.83 W

Oxygen Info For This Cast
 Blank Value: _____ mL • L⁻¹
 Std Value: _____ mL • L⁻¹
 *Date Run: ____ | ____ | ____
 Analyst: _____

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

Water Properties Group

Sampling Log

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

Cruise ID: 2012-25 Station: LB04Event #: 5Ship: TullyUTC Date (dd/mmm/yyyy): 13 MAY 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure											
1		24	B-10		/	/									
2		25	75		/	/									
3		26	50		//	/	✓								
4		27	30		/	//									
5		28	20		/	/		2	2	2					
6		29	10		/	/		2	2						
7		30	5		/	/		2	2	2					
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): <u>SR</u>

Bottom Depth:	<u>113</u> m
Transmisso Cleaned:	<u>(Y)</u> / N

Time	UTC	Local
Start	<u>1337</u>	<u>0637</u>
Bottom	<u>1339</u>	
End	<u>1352</u>	

Positional Information
Start
Lat: <u>48 ° 35.66</u> N
Lon: <u>125 ° 8.67</u> W

Bottom
Lat: <u>48 ° 35.65</u> N
Lon: <u>125 ° 8.69</u> W

End
Lat: <u>48 ° 35.70</u> N
Lon: <u>125 ° 8.72</u> W

Extra comments:

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25 Station: LB05 Event #: 9 Ship: TULLY UTC Date (dd|mmm|yyyy): 13 | MAY | 2012

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC			
1	31			5					✓✓	✓✓				1.1 - 0.9
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s):
ML

Bottom Depth: 100 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Start	1747	1047
Bottom	1750	
End	1753	1053

Positional Information

Start
Lat: 48 ° 34.02 N
Lon: 125 ° 11.96 W

Bottom
Lat: 48 ° 34.02 N
Lon: 125 ° 11.95 W

End
Lat: 48 ° 34.01 N
Lon: 125 ° 11.90 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: ____ | ____ | ____

Analyst: _____

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

Water Properties Group

Sampling Log

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

Cruise ID: 2012-25 Station: LBOG Event #: 10 Ship: TULLY UTC Date (dd/mmm/yyyy): 13 MAY 2013

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments	
			Target Pressure	Confirmed ✓	Pressure	OXY	NUT F	SAL	CHL	NH4	HPLC		PDMPO	BSi	Inch	Depth		NUTB
1	1	32	Bot-10	✓	103	✓	✓											
2	2	33	75	✓		✓	✓✓											
3	3	34	50	✓		✓	✓											
4	4	35	30	✓		✓	✓											
5	5	36	20	✓		✓	✓		✓✓	✓✓	✓✓							FI: 5.0
6	10	37	10	✓		✓✓	✓		✓✓	✓✓								
7	11	38	5	✓		✓	✓	✓	✓✓	✓✓	✓✓							FI: 0.9
8	6	39	MAX	✓	20							3	3	3	3	3		} UVIC
9	7	40	MAX	✓	20													
10	8	41	MAX	✓	20													
11	9	42	MAX	✓	20													
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): MK

Bottom Depth: 112 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1826	1126
Bottom	1829	
End	1842	

Positional Information

Start

Lat: 48 ° 32.20 N

Lon: 125 ° 15 46 W

Bottom

Lat: 48 ° 32.20 N

Lon: 125 ° 15.47 W

End

Lat: 48 ° 32.23 N

Lon: 125 ° 15 48 W

Extra comments:

Out-of-order
1-2-3-4-5-6-7-8-9-10-11-
6-7

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25 Station: LBO7 Event #: 18 Ship: Tully UTC Date (dd|mmm|yyyy): 14 | MAY | 2012

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	HP2c			
1	43	5										✓✓			chl ~ 3:0
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): SR

Bottom Depth: 156 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Time Start	0009	1709
Bottom	0012	
End		

Positional Information
 Start Lat: 48 ° 28.64 N
 Lon: 125 ° 21.95 W

Bottom Lat: 48 ° 28.64 N
 Lon: 125 ° 21.95 W

End Lat: 48 ° 28. N
 Lon: 125 ° 21. 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

Sampling Log

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

Cruise ID: 2012-25 Station: LB08Event #: 25Ship: TullyUTC Date (dd:mmm/yyyy): 14 MAY 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	OKY	SAL	NUT	CHL	HPLC	NA ₄	DIC	PHYTO			
				✓		CS		MG	JL	N ²	JL	HF/DY	NW		
1	1	44	B-10	✓	150	↓		↓			x				
2	2	45	125	✓		↓		↓							
3	3	46	100	✓		↓		↓			xx				
4	4	47	75	✓		xx		↓			x				
5	5	48	50	✓		↓		↓			x				
6	6	49	30	✓				xx	4		xx				
7	7	50	20	✓		↓		2		2	x				Fl: 9.0
8	8	51	10	✓		↓		2		2	x				ext cap dripping -> check spring
9	9	52	5			↓	x	2	2	2	x	xxx			Fl: 0.3
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): <u>ML</u>

Bottom Depth:	<u>160</u> m
Transmisso Cleaned:	☒ Y ☐ N

Time	UTC	Local
Start	0425	2125
Bottom	0428	
End	0438	

Positional Information
Start
Lat: <u>48° 25' 39"</u> N
Lon: <u>125° 28' 56"</u> W

Bottom
Lat: <u>48° 25' 40"</u> N
Lon: <u>125° 28' 59"</u> W

End
Lat: <u>48° 25' 40"</u> N
Lon: <u>125° 28' 62"</u> W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2012-25 Station: L B09 Event #: 26 Ship: TULLY UTC Date (dd|mmm|yyyy): 15 | MAI | 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	NUT	SAL	CHL	UHT	NPCL					
					HR/MG	MR	MG	34MG	SL	MG					
1	1	53	Bot-10	✓	139	x	x								
2	2	54	100	✓		xx	x								
3	3	55	75	✓		x	x								
4	4	56	50	✓		x	x								
5	5	57	30	✓		x	x								
6	6	58	20	✓		x	x	xx	xx						
7	7	59	10	✓		x	x	xx	xx						
8	8	60	5	✓		x	xx	x	xx	xx	xx				0.37 FL
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR

Bottom Depth: 150 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	0522	2222
Bottom	0526	
End	0537	

Positional Information
Start
Lat: 48 ° 21.93 N
Lon: 125 ° 34.60 W

Bottom
Lat: 48 ° 21.92 N
Lon: 125 ° 34.63 W

End
Lat: 48 ° 21.94 N
Lon: 125 ° 34.71 W

Extra comments:

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25

Station: CB10

Event #: 27

Ship: TULLY

UTC Date (dd|mmm|yyyy): 14 | MAY | 2012

Niskin #	Sample #	Oxygen Titrations		Rosette Operation			Samples Taken										Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed ☒	Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC					
1	61			5						✓		✓					FL: 0.5
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MR

Bottom Depth: 152 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0626	2326
Bottom	0629	
End	0633	2333

Positional Information

Start
 Lat: 48 ° 18.54 N
 Lon: 125 ° 41.19 W

Bottom
 Lat: 48 ° 18.54 N
 Lon: 125 ° 41.20 W

End
 Lat: 48 ° 18.54 N
 Lon: 125 ° 41.22 W

Oxygen Info For This Cast

Blank Value: _____ mL • L⁻¹

Std Value: _____ mL • L⁻¹

*Date Run: ____ | ____ | ____

Analyst: _____

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

Water Properties Group

Sampling Log

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

Cruise ID: 2012-25 Station: L311

Event #: 28

Ship: TULLY

UTC Date (dd:mmm/yyyy): 14 05 12

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	OXY	SAL	NTG	CHL	NH4	HPLC					
				✓	DT				KW						
1		62	Bot-10	200	x		x								spigot totally open - no water
2		63	175	174	x		xx								
3		64	150	150	x		x								
4		65	125	125	x		x								
5		66	100	100	x		x								
6		67	75	75	x		x								
7		68	50	50	x		x								
8		69	30	30	x		x								
9		70	20	20	x		x	xx	xx	xx					
10		71	10	10	xx		x	xx	xx	xx					
11		72	5	4.4	x	x	x	xx	xx	xx					
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): DT

Bottom Depth: 210 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0720	0020
Bottom	0725	0025
End	0738	

Positional Information

Start	Lat: <u>48</u> ° <u>15</u> <u>180</u> N
	Lon: <u>125</u> ° <u>47</u> <u>590</u> W
▼	
Bottom	Lat: <u>48</u> ° <u>15</u> <u>140</u> N
	Lon: <u>125</u> ° <u>47</u> <u>650</u> W
▼	
End	Lat: <u>48</u> ° <u>15</u> <u>150</u> N
	Lon: <u>125</u> ° <u>47</u> <u>570</u> W

Extra comments:

5
10
20
30
50
75
100
125
150
175
200
250
300
400
500

Water Properties Group

Rosette Log

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

Cruise ID: _____ Station: LB12 Event #: 30 Ship: TULLY UTC Date (dd|mmm|yyyy): 14 | 05 | 12

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	HPIC					
1	73			B-10	497		2									
2	74			400	401		4	X								
3	75			300	301											
4	76			250	250											
5	77			200	201											
6	78			175	175		X									
7	79			150	150											
8	80			125	125											
9	81			100	100	X										
10	82			75	74.6											
11	83			50	50.5											
12	84			30	30											
13	85			20	20				XX	XX						chl max @ 15m
14	86			10	9.7				XX	XX						24 ug/l
15	87			05	4.9			X	XX	XX	XX					
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): DT

Bottom Depth: 510 m

Transmisso Cleaned: Y / N

	UTC	Local
Start	0857	0157
Bottom	0908	0208
End	0938	0238

Positional Information

Start

Lat: 48 ° 12 890 N

Lon: 125 ° 51 850 W

Bottom

Lat: 48 ° 12 870 N

Lon: 125 ° 51 820 W

End

Lat: 48 ° 12 860 N

Lon: 125 ° 51 790 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

Sampling Log

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

Cruise ID: 2012-25 Station: LB 14Event #: BT 32¹Ship: TullyUTC Date (dd|mmm|yyyy): 14 | MAY | 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓ Pressure	O ₂	SAL	NH ₄	NO ₃	CHL	NH ₄	MPCC						
1		88 *	B-10		1176	x		x	x								
2		89	1000			x	x	x	x								
3		90	750			x		x	x								
4		91	500			x		x	xx								
5		92	400			x		x	x								
6		93	300			x		x									
7		94 *	250			x		x									
8		95	200			x		x									
9		96	175			x		x									
10		97	150			x		x									
11		98	125			x		x									
12		99 *	100			xx		x									
13		100	75	✓		x		xx									
14		101	50		bot 21	x		x									
15		102	30		bot 22	x		x									
16		103	20			x		x		✓✓	✓✓						
17		104	10			x		x		✓✓	✓✓						
18		105	5			x	✓	x		✓✓	✓✓	xx					
19			100 ✓														Nina's LNSW
20			250 ✓														no sample #s
21			CHL MAX		8.7												UBC add ons
22			SWF														
23			Bot-10 ✓														→ Dave deepwater
24			Bot-10 ✓														

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s):

Bottom Depth: 1180 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	<u>1156</u>	<u>0446</u>
Bottom	<u>1208</u>	
End	<u>1254</u>	

Positional Information
Start
Lat: 48° 8.47 N
Lon: 125° 59.96 W

Bottom
Lat: 48° 8.45 N
Lon: 125° 59.99 W

End
Lat: 48° 8.46 N
Lon: 125° 59.97 W

Extra comments:
LNSW for NH₄
@ 100, 250 m

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25

Station: L315

Event #: 33

Ship: Tully

UTC Date (dd|mmm|yyyy): 14 | 05 | 2012

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC			
1	106			5					✓	✓				FR: L, 1
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): SR / MR

Bottom Depth: 1450 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Start	1409	0709
Bottom	1437	
End	1507	0807

Positional Information
 Start
 Lat: 48°04.36 N
 Lon: 126°08.48 W

Bottom
 Lat: 48°04.41 N
 Lon: 126°08.65 W

End
 Lat: 48°04.43 N
 Lon: 126°08.96 W

Oxygen Info For This Cast
 Blank Value: _____ mL · L⁻¹
 Std Value: _____ mL · L⁻¹
 *Date Run: ____ | ____ | ____
 Analyst: _____

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

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25 Station: 4B16 Event #: 35 Ship: TULCY UTC Date (dd|mmm|yyyy): 14 | MAY | 2012

Niskin #	Sample #	Oxygen Titrations		Rosette Operation			Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒	Pressure	Oxy	Nut	Sal	Chl	NH ₄	POMPO	BSi	Phyto	Incu		
1	107			MAX	1	40		xxx		xxx		xxx	xxx	xxx	xxx		} UVIC
2	108			MAX	✓	"											
3	109			MAX	✓	"											
4	110			MAX	✓	"											
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MR

Bottom Depth: 1778 m

Transmisso Cleaned: ☒ Y / ☐ N

	Time	UTC	Local
Start		1713	1013
Bottom		1716	
End		1719	1019

Positional Information
 Lat: 48 ° 00.59 N
 Lon: 126 ° 16.98 W

▼
 Lat: 48 ° 00.57 N
 Lon: 126 ° 17.02 W

▼
 Lat: 48 ° 00.57 N
 Lon: 126 ° 17.08 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: 2012-25

Station: LC12

Event #: 38

Ship: TULLY

UTC Date (dd|mmm|yyyy): 14 | MAY | 2012

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	POMPO	BSi	Ph ₄	In _{sub}		
1	111			C MAX				***		***		***	***	***	***		} Uvic
2	112			C MAX													
3	113			C MAX													
4	114			C MAX													
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): SR

Bottom Depth: 2516 m

Transmisso Cleaned: ☒ Y ☐ N

	UTC	Local
Start	2332	1632
Bottom	2334	
End	2336	

Positional Information
 Lat: 48 ° 15.08 N
 Lon: 126 ° 40.09 W

Start

Lat: 48 ° 15.08 N
 Lon: 126 ° 40.09 W

Bottom

Lat: 48 ° 15.05 N
 Lon: 126 ° 40.11 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

Sampling Log

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

Cruise ID: 2012-25 Station: LC11Event #: 40Ship: TULLYUTC Date (dd/mmm/yyyy): 15 MAY 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	OXY	SAL	NOT R	NOT C	CHL	NHA	HPLC	GASES			
				✓	CS	MG	MG/HA	MG/MA	JL	LP/JL	JL	MA/OC			
1		115	Bot-10		✓	✓	✓	✓				✓✓			
2		116	1250		✓	✓✓	✓	✓				✓✓			
3		117	1000		✓	✓	✓✓	✓✓				✓✓✓			
4		118	850		✓✓	✓	✓	✓				✓✓			
5		119	800		✓	✓	✓	✓				✓✓			
6		120	750		✓	✓	✓	✓				✓✓			
7		121	500		✓	✓	✓	✓				✓✓			
8		122	400		✓	✓	✓	✓				✓✓			
9		123	300		✓	✓	✓					✓✓✓			
10		124	250*		✓	✓	✓✓					✓✓			
11		125	200		✓	✓	✓					✓✓			
12		126	175		✓	✓	✓					✓✓			
13		127	150		✓✓	✓	✓					✓✓✓			
14		128	125		✓	✓	✓					✓✓			
15		129	100		✓	✓	✓					✓✓			
16		130	75		✓	✓	✓					✓✓			
17		131	50		✓	✓	✓					✓✓✓			
18		132	30		✓	✓	✓					✓✓			
19		133	20		✓	✓	✓		✓✓	✓✓		✓✓			
20		134	10		✓	✓	✓		✓✓	✓✓		✓✓			
21		135	5		✓	✓	✓		✓✓	✓✓	✓✓				
22			250												LNSW for Nina
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): <u>SR</u>

Bottom Depth:	<u>1455</u> m
Transmisso Cleaned:	☒ Y / ☐ N

Time	UTC	Local
Start	<u>0126</u>	<u>1826</u>
Bottom	<u>0149</u>	
End	<u>0237</u>	

Positional Information		
Start	Lat: <u>48° 18.93</u>	<u>N</u>
	Lon: <u>126° 26.80</u>	<u>W</u>

Start

Bottom

End

Bottom	Lat: <u>48° 19.02</u>	<u>N</u>
	Lon: <u>126° 26.89</u>	<u>W</u>

End	Lat: <u>48° 18.98</u>	<u>N</u>
	Lon: <u>126° 27.04</u>	<u>W</u>

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2012-25 Station: LC09/A3 Event #: 43 Ship: TULLY UTC Date (dd|mmm|yyyy): 15 | MAY | 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	OXY	SAL	HT &	HT C	CHL	NHA	HPLC	DIC	GAX					
1		136	Bot-10	✓	608	x		x	x			x	xxx					
2		137	500	✓		x	x	x	x			xx	xx					
3		138	400	✓		xx		xx	xx			x	xx					
4		139	300	✓		x		x				x	xxx					
5		140	250	✓		x		x				x	xx					
6		141	200	✓		x		x				xx	xx					
7		142	175	✓		x		x					xx					
8		143	150	✓		x		x					xxx					
9		144	125	✓		x		x					xx					
10		145	100	✓		x		x				x	xx					
11		146	75	✓		x		x					xx					
12		147	50	✓		x		x				x	xxx					
13		148	30	✓		x		xx		xx		xx	xx					FL: 5.4
14		149	20	✓		x		x		xx	xx	xx	xx					FL: 3.3
15		150	10	✓		x		x		xx	xx	x	xx					
16		151	5	✓		xx	x	x		xx	xx	xx	x					FL: 1.6
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): <u>MR</u>

Bottom Depth:	<u>612</u> m
Transmisso Cleaned:	☒ Y / ☐ N

Time	UTC	Local
Start	0549	2249
Bottom	0558	
End	0622	2322

Positional Information
Start
Lat: <u>48 ° 25.90</u> N
Lon: <u>126 ° 13.74</u> W

Start

Bottom

Bottom
Lat: <u>48 ° 25.93</u> N
Lon: <u>126 ° 13.78</u> W

End

End
Lat: <u>48 ° 25.93</u> N
Lon: <u>126 ° 13.90</u> W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2012-25

Station: LC08/A1

Event #: 46

Ship: TULLY

UTC Date (dd|mmm|yyyy): 15|05|2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	SAL	NAF	CHL	UHQ	HPLC					
1		152	Bot-10	✓	192	x		x					xx		
2		153	175	✓	175	x		x					xx		
3		154	150	✓	150	x		x					xx		
4		155	125	✓	124	x		x					xx		
5		156	100	✓	99	x		xx					xx		
6		157	75	✓	74	x		x					xx		
7		158	50	✓	50	x		x					xx		
8		159	30	✓	29	x		x					xx		
9		160	20	✓	20	xx		x	xx	xx			xx		
10		161	10	✓	10	x		x	xx	xx			xx		
11		162	5	✓	5	x	x	x	xx	xx	xx				
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
 ROS TRM X-Niskin other?
 Watchkeeper(s): DK2

Bottom Depth: 223 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0911	0211
Bottom	0916	0217
End	0930	0230

Positional Information

Lat: <u>48</u>	° <u>29.150</u>	N
Lon: <u>126</u>	° <u>06.820</u>	W

▼

Lat: <u>48</u>	° <u>29.150</u>	N
Lon: <u>126</u>	° <u>06.830</u>	W

▼

Lat: <u>48</u>	° <u>28.970</u>	N
Lon: <u>126</u>	° <u>06.870</u>	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2012-25 Station: LC06Event #: 49Ship: TULLYUTC Date (dd/mm/yyyy): 15 MAY 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	OXY	SAL	UTR	CHL	NH4	HPLC	DIC	GAM						
1		163	Bot-10	32	x		x				x	xx						
2		164	75		xx		x				xx	xx						
3		165	50		x		x				x	xxx						
4		166	30		x		x				xx	xx						-vent open
5		167	20		x		x	xx	xx		x	xx						
6		168	10		x		xx	xx	xx	xx	x	xx						
7		169	5		x	x	x	xx	xx	xx	x							
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): SR

Bottom Depth: 91 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1140	0440
Bottom	1141	
End	1149	

Positional Information

Start	Lat: <u>48</u> ° <u>36.40</u> N
	Lon: <u>125</u> ° <u>54.00</u> W
Bottom	Lat: <u>48</u> ° <u>36.38</u> N
	Lon: <u>125</u> ° <u>54.06</u> W
End	Lat: <u>48</u> ° <u>36.42</u> N
	Lon: <u>125</u> ° <u>53.98</u> W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2012-25 Station: LCO4 Event #: 53 Ship: TULLY UTC Date (dd|mmm|yyyy): 15 MAY 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	SAL	NUTR	CHL	NH4	HPCC	phyto	GAX			
1		170	Bot-10	159	x		x					xx			
2		171	150		x		xx					xxx			
3		172	125		x		x					xx			
4		173	100		x		x					xx			
5		174	75		x		x					xx			
6		175	50		x		x					xxx			
7		176	30		x		x					xx			
8		177	20		x		x	xx	xx			xx			
9		178	10		xx		x	xx	xx	xx		xx			
10		179	5		x	x	x	xx	xx	xx	xxx				
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): SP2

Bottom Depth: 165 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1356	0656
Bottom	1401	
End	1413	

Positional Information

Start	Lat: 48 ° 43.40 N
	Lon: 125 ° 40.88 W
Bottom	Lat: 48 ° 43.49 N
	Lon: 125 ° 40.94 W
End	Lat: 48 ° 43.45 N
	Lon: 125 ° 41.22 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2012-25 Station: LC02Event #: 55Ship: TULLYUTC Date (dd|mmm|yyyy): 15 | MAY | 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	SAL	NUTR	CHL	NH4	HPLC	DIC	Gases			
1	1	180	Bot-10	✓	100	x		x			x	xx			
2	2	181	75	✓		xx		x			xx	xx			
3	3	182	50	✓		x		x			x	xx			
4	4	183	30	✓		x		x			xx	xx			
5	5	184	20	✓		x		xx	xx	xx	x	xx			
6	6	185	10	✓		x		x	xx	xx	x	xx			
7	7	186	5	✓		x	x	x	xx	xx	x				FL: 12
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR

Bottom Depth: 110 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1540	0840
Bottom	1543	
End	1551	0851

Positional Information
Start
Lat: 48 ° 48.77 N
Lon: 125 ° 31.08 W

Bottom
Lat: 48 ° 48.78 N
Lon: 125 ° 31.10 W

End
Lat: 48 ° 48.78 N
Lon: 125 ° 31.05 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2012-25 Station: LC01 Event #: 56 Ship: TULLY UTC Date (dd|mmm|yyyy): 15 | MAY | 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials														Comments
			Target Pressure	Confirmed ✓	Pressure	OXY	SAL	NUTR	CHL	NH ₄	HPLC	Gases	PO ₄ P	BSC	Inch	Phylo	WUT	CHL	
																	UVIC	UVIC	
1	1	187	Bot-N	✓	85	x		xx				xx							
2	2	188	75	✓		x		x				xx							
3	3	189	50	✓		x		x				xxx							
4	4	190	30	✓		x		x				xx							
5	5	191	20	✓		xx		x	xx	xx		xx							
6	6	192	10	✓		x		x	xx	xx		xx							
7	7	193	5	✓		x	x	x	xx	xx	xx	xx							FL: 6.6
8	8	194	CHL MAX	✓	5							xxx	xxx	xxx	xxx	xxx	xxx	xxx	} UVIC
9	9	195	MAX	✓	5														
10	10	196	MAX	✓	5														
11	11	197	MAX	✓	5														
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): <u>MR</u>

Bottom Depth: <u>95</u> m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1622	0922
Bottom	1626	
End	1634	

Positional Information		
Lat:	<u>48° 50.42</u>	<u>N</u>
Lon:	<u>125° 27.62</u>	<u>W</u>

Start

Bottom

Lat:	<u>48° 50.45</u>	<u>N</u>
Lon:	<u>125° 27.63</u>	<u>W</u>

End

Lat:	<u>48° 50.52</u>	<u>N</u>
Lon:	<u>125° 27.68</u>	<u>W</u>

Extra comments:

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25 Station: LG01 Event #: 57 Ship: TULCY UTC Date (dd|mmm|yyyy): 15 | MAY | 2012

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC					
1	198			B-10	43	x	x									
2	199			30		xx	xx									
3	200			20		x	x		xx	xf						
4	201			10		x	x		xx	xx						
5	202			05		x	x	x	xx	xx	xx					
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): DK²

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2252	1552
Bottom	2253	
End	2258	

Positional Information

Start

Lat: 49 ° 20.45 N

Lon: 126 ° 34.92 W

Bottom

Lat: 49 ° 20.51 N

Lon: 126 ° 34.96 W

End

Lat: 49 ° 20.51 N

Lon: 126 ° 30.96 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: ____ | ____ | ____

Analyst: _____

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

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25

Station: LG02

Event #: 58

Ship: Tully

UTC Date (dd|mmm|yyyy): 15 | MAY | 2012

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	Incl	HPLC	goc	PMPO	bsi	
1	203	1		B-10		X	X						XX			
2	204	2		75		X	X						XX			
3	205	3		50		X	XX						XX			
4	206	4		30		X	X						XX			
5	207	5		20		XX	X		XX	XX			XX			
6	208	6		10		X	X		XX	XX			XX			
7	209	12		05		X	X	X	XX	XX		XX				
8	210	7		C max	7		(uvic) XXX		(uvic) XXX		XXX			XXX	XXX	
9	211	8		C max	7											
10	212	9		C max	7											
11	213	10		C max	7											
12		11		C max	7											
13		13		Surf												
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

out-of-order!

↑
12-20-12

Watchkeeper(s): SJR

Bottom Depth: 99 m

Transmisso Cleaned: Y N

Time	UTC	Local
Start	2331	1631
Bottom	2333	
End	2343	

Positional Information

Start

Lat: 49° 18.71 N

Lon: 126° 37.94 W

Bottom

Lat: 49° 18.73 N

Lon: 126° 37.97 W

End

Lat: 49° 18.75 N

Lon: 126° 37.90 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: ____ | ____ | ____

Analyst: _____

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

Water Properties Group

Sampling Log

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

Cruise ID: 2012-25 Station: LC104

Event #: 62

Ship: TULLY

UTC Date (dd/mm/yyyy): 16 MAY 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments
			Target Pressure	Confirmed Pressure	001	SAL	NUT	CHL	H2O	NH4			
1		214	Bottom-10	135	X		X						
2		215	125		X		X						
3		216	100		X		X						
4		217	75		X		X						
5		218	50		XX		X						
6		219	30		X		X						
7		220	20		X		XX	XX		XX			
8		221	10		X		X	XX		XX			
9		222	5		X	X	X	XX	XX	XX			
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s):

Bottom Depth: 142 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0151	1851
Bottom	0154	
End	0203	

Positional Information

Start	Lat: <u>49° 11.31</u> N
	Lon: <u>126° 49.20</u> W
Bottom	Lat: <u>49° 11.33</u> N
	Lon: <u>126° 49.21</u> W
End	Lat: <u>49° 11.34</u> N
	Lon: <u>126° 49.26</u> W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2012-25Station: LC106Event #: 64Ship: TULUUTC Date (dd:mmm:yyyy): 16 MAY 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	0M	1M	2M	3M	4M	5M	6M	7M	8M	9M	
1	X	223	81m-10		X	X	X								
2	1	224	750	✓ 670	X	X	XX								NOT USED.
3	2	225	500	✓	X	X	X								
4	3	226	4100	✓	X	X	X								
5	4	227	300	✓	X	X									
6	5	228	250	✓	XX	X									
7	6	229	200	✓	X	X									
8	7	230	175	✓	X	X									
9	8	231	150	✓	X	X									
10	9	232	125	✓	X	XX									
11	10	233	100	✓	X	X									
12	11	234	75	✓	X	X									
13	12	235	50	✓	X	X									
14	13	236	30	✓	X	X									
15	14	237	20	✓	X	X			XX	XX					
16	15	238	10	✓	X	X			XX	XX					
17	16	239	5	✓	X	X			XX	XX	XX	X			
18															FL: oops! sorry is
19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): <u>ML</u>

Bottom Depth: <u>680</u> m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0359	2059
Bottom	0411	
End	0433	2133

Positional Information
Start
Lat: <u>49° 04.08</u> N
Lon: <u>126° 59.03</u> W

Bottom
Lat: <u>49° 04.07</u> N
Lon: <u>126° 59.01</u> W

End
Lat: <u>49° 04.02</u> N
Lon: <u>126° 59.07</u> W

Extra comments: <u>Shallower than planned. NISK 1 not used.</u>

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25

Station: LG09

Event #: 67

Ship: Tully

UTC Date (dd|mmm|yyyy): 16 | 05 | 2012

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken						HRC	UBC	Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄				
1	240				30								x	
2	241				30								x	
3														
4	243													
5	242				5							xx		
6	243				5									
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): SR

Bottom Depth: 2053 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Start	1004	
Bottom	1039	
End	1112	

Positional Information
 Start
 Lat: 48 ° 51 150 N
 Lon: 127 ° 19 390 W

Bottom
 Lat: 48 ° 51 090 N
 Lon: 127 ° 19 720 W

End
 Lat: 48 ° 50 89 N
 Lon: 127 ° 19 89 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: 2012-25

Station: LBPO7

Event #: 69

Ship: Tully

UTC Date (dd|mmm|yyyy): 16¹⁷ MAY | 2012

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut Fro2	Sal	Chl a	NH ₄	HP LC	NUT Fresh				
1	244	1		B-10		2009	X	X				X				Spigot in, slow leak
2	245	2		1500			X	X	X			X				
3	246	3		1250			X	X				X				
4	247	4		1000			XX	X				X				
5	248	5		750			X	X				X				
6	249	6		500	✓		X	X				XX				
7	250	7		400	✓		X	X				X				
8	251	8		300	✓		X	X								
9	252	9		250	✓		X	X								
10	253	10		200	✓		X	X								
11	254	11		175	✓		X	XX								
12	255	12		150	✓		X	X								
13	256	13		125	✓		XX	X								
14	257	14		100	✓		X	X								
15	258	15		75	✓		X	X								
16	259	16		50	✓		X	X								
17	260	19		30	✓		X	X								
18	261	20		20	✓		X	X		XX	XX					
19	262	21		10	✓		X	X		XX	XX					
20	263	22		05	✓		X	X	X	XX	XX					Fl:
21	264	17		CHLM	✓	35										4 bottles for
22	265	18		CHLM	✓	35										Laura, no sample
23	266	23		Surf	✓											#5
24	267	24		Surf	✓											

Watchkeeper(s): SR/MR

Bottom Depth: 2185 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	0151	1851
Bottom	0218	
End	0314	2014

Positional Information

Start

Lat: 49 ° 52.27 N

Lon: 128 ° 11 10 W

Bottom

Lat: 49 ° 52.35 N

Lon: 128 ° 11.22 W

End

Lat: 49 ° 52.38 N

Lon: 128 ° 11.17 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: ____|____|____

Analyst: _____

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

Water Properties Group

Sampling Log

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

Cruise ID: 2012-25 Station: LBPO5Event #: 72Ship: TullyUTC Date (dd mmm/yyyy): 17 MAY 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	SAL	NUTF	NutC	CHLa	HPIC	NH4				
1		268	B-10	✓	1280				X						
2		269	1000	✓					X						
3		270	750	✓					X						
4		271	500	✓			XX	XX							
5		272	400	✓				X							
6		273	300	✓		XX									
7		274	250	✓											
8		275	200	✓											
9		276	175	✓											
10		277	150	✓											
11		278	125	✓											
12		279	100	✓											
13		280	75	✓			XX								
14		281	50	✓											
15		282	30	✓		XX									
16	16	283	20	✓					2		2				
17	17	284	10	✓					2		2				
18	19	285	5	✓			X		2	2	2				
19	18		10	✓											Fl: 2.3
20	20		5	✓											UBC, no B
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): <u>HR</u>

Bottom Depth: <u>1275</u> m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0604	2304
Bottom	0625	
End	0700	0000

Positional Information
Start
Lat: <u>49° 59.91</u> N
Lon: <u>127° 59.96</u> W

Bottom
Lat: <u>49° 59.86</u> N
Lon: <u>127° 59.93</u> W

End
Lat: <u>49° 59.88</u> N
Lon: <u>128° 00.07</u> W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2012-25Station: LBP03Event #: 75Ship: TULLYUTC Date (dd|mm|yyyy): 17 | 05 | 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	OXY	SAL	NOTF	CHL	HPUC	NH4	PAR10				
1		286	B-10	155											X X
2		287	150	150											X X
3		288	125	125											X X
4		289	100	100											X X X
5		290	75	75											X X
6		291	50	49											X X
7		292	30	30											X X
8		293	20	20				X X		X X					X X
9		294	10	10				X X		X X					X X X
10		295	5	5		X		X X	X X	X X	XXX				X X
11		296													
12		297													
13		300													
14		301													
15		302													
16		303													
17		304													
18		305													
19															
20															
21															
22															
23															
24															

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): <u>DKZ</u>

Bottom Depth:	<u>165</u>	m
Transmisso Cleaned:	<u>Y</u>	N

Time	UTC	Local
Start	<u>0900</u>	<u>0200</u>
Bottom	<u>0907</u>	<u>0207</u>
End	<u>0918</u>	<u>0218</u>

Positional Information		
Start	Lat: <u>50</u> ° <u>03</u> <u>200</u> N	Lon: <u>127</u> ° <u>55</u> <u>260</u> W
Bottom	Lat: <u>50</u> ° <u>03</u> <u>230</u> N	Lon: <u>127</u> ° <u>05</u> <u>260</u> W
End	Lat: <u>50</u> ° <u>03</u> <u>300</u> N	Lon: <u>127</u> ° <u>05</u> <u>300</u> W

Extra comments:

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25

Station: CPE2

Event #: 78

Ship: TULLY

UTC Date (dd|mmm|yyyy): 17 | May | 2012

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	POMPO	INCU	Phyto	BSi		
1	296			Cmax	✓	15		xxx		xxx		xxx	xxx	xxx	xxx		} ovic
2	297			"	✓	15											
3	298			"	✓	15											
4	299			"	✓	15											
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MR

Bottom Depth: 127 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1711	1011
Bottom	1714	
End	1718	1018

Positional Information

Start

Lat: 50 ° 42.98 N

Lon: 128 ° 39.78 W

Bottom

Lat: 50 ° 42.99 N

Lon: 128 ° 39.82 W

End

Lat: 50 ° 43.01 N

Lon: 128 ° 39.83 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: ____ | ____ | ____

Analyst: _____

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

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25 Station: LQ03 Event #: 80 Ship: Tully UTC Date (dd|mmm|yyyy): 17 | 05 | 2012

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		Gases		HPLC		
1	300			800	800							xx				
2	301											xx				UBC Gases
3	302											xx				
4	303											xx				
5	304											xx				
6	305											xx				
7	306											xx				
8	307											xx				
9	308											xx				
10	309											xx				
11	310											xx				
12	311			800	799							xx				
13	312			05	5.2				xx					xx		HPLC Loop Cal.
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): DK²

Bottom Depth: 1254 m

Transmisso Cleaned: Y N

	UTC	Local
Time		
Start	1938	1238
Bottom	2001	1301
End	2027	1327

Positional Information

Start
Lat: 50 ° 39.752 N
Lon: 129 ° 01.980 W

Bottom
Lat: 50 ° 39.740 N
Lon: 129 ° 01.980 W

End
Lat: 50 ° 39.730 N
Lon: 129 ° 02.030 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: ____ | ____ | ____

Analyst: _____

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

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25

Station: J122

Event #: 82

Ship: TULLY

UTC Date (dd|mmm|yyyy): 17 | May | 2012

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut <u>uvic</u>	Sal	Chl <u>uvic</u>	NH ₄	BSi	PDMP	Incu	Phyto		
1	313			Cmax	8											} uvic SeaBint = 3.687e+000
2	314			Cmax	8											
3	315			Cmax	8											
4	316			Cmax	8											
5																
6																PAR CAST
7																CTD File 80.HEX
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): DK²

Bottom Depth: 1405 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2208	1508
Bottom	2226	1526
End	2246	1546

Positional Information

Start
 Lat: 50 ° 39 732 N
 Lon: 129 ° 17 330 W

Bottom
 Lat: 50 ° 39 720 N
 Lon: 129 ° 17 790 W

End
 Lat: 50 ° 39 740 N
 Lon: 129 ° 17 900 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

Sampling Log

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

Cruise ID: 2012-25 Station: CS00 Event #: 84 Ship: Tully UTC Date (dd|mmm|yyyy): 18 May 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	oxy	SAL	Nut	Nut	chl a	HPL	NH ₄	UVC	POM		
1	1	317	2000	✓	X		X	X							} TOP VALVE WIDE OPEN
2	2	318	1500	✓	X	X	X	X							
3	3	319	1250	✓	X		X	X							
4	4	320	1000	✓	X		X	X							
5	5	321	750	✓	X		X	X							
6	6	322	500	✓	XX		X	X							
7	7	323	400	✓	X		X	X							
8	8	324	300	✓	X		X								
9	9	325	250	✓	X		X								
10	10	326	200	✓	X		X								
11	11	327	175	✓	X		X								
12	12	328	150	✓	X		X								
13	13	329	125	✓	X		X								
14	14	330	100	✓	X		X								
15	15	331	75	✓	X		X								
16	16	332	50	✓	XX		X								
17	20	333	30	✓	X		XX								
18	21	334	20	✓	X		X		XX		XX				
19	22	335	10	✓	X		X		XX		XX				
20	23	336	5	✓	X	X	X		XX	XX	XX				FL:
21	24	337	surf	✓								X			UVC
22	17	338	chl a max	✓	40							} X			UVC
23	18	339	chl a max	✓	40										UVC
24	19	340	chl a max	✓	40										UVC

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): <u>SR+MR</u>

Bottom Depth:	<u>2168</u> m
Transmisso Cleaned:	☒ Y ☐ N

Time	UTC	Local
Start	0238	1938
Bottom	0309	
End	0404	2104

Positional Information
Start
Lat: <u>50° 27.59</u> N
Lon: <u>129° 54.92</u> W

Bottom
Lat: <u>50° 27.68</u> N
Lon: <u>129° 54.98</u> W

End
Lat: <u>50° 27.70</u> N
Lon: <u>129° 55.00</u> W

Extra comments:
<u>If extra water in surface bottles, UVC wants (see Laura)</u>

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25 Station: CS01 Event #: 87 Ship: Tully UTC Date (dd|mmm|yyyy): 18 | 05 | 2012

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	HP	LC				
1	341			5m	S-2							X				
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): DK²

Bottom Depth: 2105 m

Transmisso Cleaned: ☒ (Y) / ☐ (N)

	UTC	Local
Time Start	<u>0712</u>	<u>0012</u>
Bottom	<u>0744</u>	<u>0047</u>
End	<u>0815</u>	<u>0115</u>

Positional Information

Start Lat: 50 ° 34 950 N
Lon: 129 ° 41 500 W

Bottom Lat: 50 ° 35 120 N
Lon: 129 ° 41 580 W

End Lat: 50 ° 35 120 N
Lon: 129 ° 41 560 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: 2012-25

Station: CS02

Event #: 89

Ship: TULLY

UTC Date (dd|mmm|yyyy): 18 | May | 2012

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed √ Pressure	Oxy	Nut fen	Sal	Chl a	NH ₄	NUT COOL					
1	342			BDT-10	1400	x	x				x					
2	343			750	750	xx	x	x			x					
3	344			500	500	x	xx				xx					
4	345			400	400	x	x				x					
5	346			300	300	x	x									
6	347			250		x	x									
7	348			200		x	x									
8	349			175		x	x									
9	350			150		x	x									
10	351			125		x	x									
11	352			100		xx	x									
12	353			75		x	x									
13	354			50		x	xx									
14	355			30		x	x									
15	356			20		x	x		xx	xx						
16	357			10		x	x		xx	xx						
17	358			5		x	x	x	xx	xx			x			
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): DK²

Bottom Depth: 1895 m

Transmisso Cleaned: Y / N

	Time	UTC	Local
Start		<u>1010</u>	<u>0310</u>
Bottom		<u>1033</u>	<u>0333</u>
End		<u>1109</u>	

Positional Information

Start

Lat: 50 ° 41 220 N

Lon: 129 ° 28 180 W

Bottom

Lat: 50 ° 41 130 N

Lon: 129 ° 28 450 W

End

Lat: 50 ° 41.120 N

Lon: 129 ° 28.600 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

Sampling Log

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

Cruise ID: 2012-25 Station: CS04Event #: 93Ship: TullyUTC Date (dd mmm yyyy): 18 MAY 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	oxy	SAL	NVT	CHL									
1		359	810		X		X										
2		360	75														
3		361	50														
4		362	30		XX												
5		363	20				XX	XX			XX						
6		364	10					XX			XX						
7		365	15		X	X	X	XX	X	XX							
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): <u>SR</u>

Bottom Depth:	<u>96</u>	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	1357	0657
Bottom	1358	
End	1406	

Positional Information		
Start	Lat: <u>50° 49.28</u>	N
	Lon: <u>129° 12.93</u>	W

Bottom	Lat: <u>50° 49.32</u>	N
	Lon: <u>129° 12.93</u>	W

End	Lat: <u>50° 49.44</u>	N
	Lon: <u>129° 12.88</u>	W

Extra comments:

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25

Station: ODAS

Event #: 96

Ship: Tully

UTC Date (dd|mmm|yyyy): 18 | 05 | 2012

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	HP LC				
1	366			10m	10.12							XX			CH MAX
2															
3															
4															
5															Seapoint = 1.239 e ⁴⁰⁰
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): DK2

Bottom Depth: 2116 m

Transmisso Cleaned: ☒ N

	Time	UTC	Local
Start		1925	1225
Bottom		1959	1259
End		2033	1333

Positional Information			
Start	Lat:	50 ° 51 560 N	
	Lon:	129 ° 55 270 W	
▼			
Bottom	Lat:	50 ° 51 440 N	
	Lon:	129 ° 55 490 W	
▼			
End	Lat:	50 ° 51 380 N	
	Lon:	129 ° 55 830 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: 2012-25 Station: CS3B Event #: 99 Ship: TULLY UTC Date (dd|mmm|yyyy): 18 | May | 2012

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl <u>uvic</u> _a	NH ₄	bsi	PMPD	Incu	Phyto <u>uvic</u>	HPc	
1	367			Cmax	11.5						xxx					
2	368			Cmax							xxx	xxx				
3	369			Cmax					xxx				xx	xxx		
4	370			Cmax			xxx						xxx			
5	371			5m											xx	
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): _____

Bottom Depth: 208 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2348	1648
Bottom	2352	
End	2357	

Positional Information

Start

Lat: 50 ° 59.79 N

Lon: 129 ° 27.14 W

Bottom

Lat: 50 ° 59.79 N

Lon: 129 ° 27.17 W

End

Lat: 50 ° 59.81 N

Lon: 129 ° 27.22 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: ____ | ____ | ____

Analyst: _____

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

Water Properties Group

Sampling Log

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

Cruise ID: 2012-25 Station: C506

Event #: 104

Ship: Tully

UTC Date (dd mmm/yyyy): 19 MAY 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	SAL	NUT	F	CHL	a	HPLC	NH4			
1	1	372	B-10	✓	55	↓			↓						
2	2	373	50	✓		↓			↓						
3	3	374	20	✓		XX			XX						
4	4	375	20	✓		↓			↓	2		2			
5	5	376	10	✓		↓			↓	2		2			
6	6	377	5	✓		↓	X		↓	2	2	2			FR: 5.6
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): HR

Bottom Depth: 65 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0507	2207
Bottom	0508	
End	0515	

Positional Information
 Start
 Lat: 50° 59.97 N
 Lon: 128° 51.90 W

Bottom
 Lat: 50° 59.99 N
 Lon: 128° 51.88 W

End
 Lat: 51° 00.04 N
 Lon: 128° 51.82 W

Extra comments:

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25 Station: CS07 Event #: 106 Ship: TULLY UTC Date (dd|mmm|yyyy): 19 | MAY | 2012

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	378			MAX	5											} UBC
2	379			Surf												
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): NR

Bottom Depth: 66 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Start	0613	2313
Bottom	0615	
End	0619	

Positional Information
 Lat: 51 ° 04.48 N
 Lon: 128 ° 43.94 W

Start

Lat: 51 ° 04.48 N
 Lon: 128 ° 43.90 W

Bottom

Lat: 51 ° 04.49 N
 Lon: 128 ° 43.84 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

club
bub
sec love

Cruise ID: 2012-25 Station: CS 09 Event #: 111 Ship: TULLY UTC Date (dd|mmm|yyyy): 19 May 2012

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	HRP					
1	380			Bot-10	187	x	x									
2	381			175	175	x	x									
3	382			150	150	x	xx									
4	383			125	125	x	x									
5	384			100	100	x	x									
6	385			75	75	x	x									
7	386			50	50	x	x									
8	387			30	30	xx	x									
9	388			20	20	x	x		xx	xx						
10	389			10	10.7	x	x		xx	xx						
11	390			5	4.9	x	x	x	xx	xx	xx					
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): DKZ

Bottom Depth: 196 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0843	0143
Bottom	0846	0146
End	0856	

Positional Information

Start
 Lat: 51 ° 12 420 N
 Lon: 128 ° 28 090 W

Start

Bottom
 Lat: 51 ° 12 550 N
 Lon: 128 ° 28 060 W

Bottom

End
 Lat: 51 ° 12 500 N
 Lon: 128 ° 28 180 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

Sampling Log

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

Cruise ID: 2012-25 Station: UBC 7 Event #: 115 Ship: Tully UTC Date (dd|mmm|yyyy): MAY 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut	Chl	a						
1		391	B-10	154											
2		392	125												
3		393	100												
4		394	75		XX										
5		395	50				XX								
6		396	30				12	2							
7		397	20					2							
8		398	10		✓			2							
9		399	5			X		2	2						
10		400	0				2	2							for UBC
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s):

Bottom Depth: 160 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1345	0645
Bottom	1348	
End	1359	

Positional Information

Start Lat: 51 ° 30.02 N

Start Lon: 127 ° 49.00 W

Bottom Lat: 51 ° 30.03 N

Bottom Lon: 127 ° 49.00 W

End Lat: 51 ° 30.02 N

End Lon: 127 ° 48.98 W

Extra comments:

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25 Station: R: 1 Event #: 117 Ship: TULAG UTC Date (dd|mmm|yyyy): 19 | MAY | 2012

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	401			30	☒		✓✓		✓✓							
2	402			5	☒		✓✓		✓✓							
3	403			0	☒				✓✓							
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): MR

Bottom Depth: 330 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Time Start	1558	0858
Bottom	1605	
End	1613	0913

Positional Information
Start Lat: 51 ° 26.35 N
Lon: 127 ° 38.12 W

Bottom Lat: 51 ° 26.33 N
Lon: 127 ° 38.15 W

End Lat: 51 ° 26.32 N
Lon: 127 ° 38.18 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

Sampling Log

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

Cruise ID: 2012-25

Station: Ri 2

Event #: 120

Ship: TULLY

UTC Date (dd:mmm/yyyy): 19 | MAY | 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	NOT	CHL		GRX							
1	12	404	30	✓ 30	✓✓	✓✓									
2	15	405	5	✓ 5	✓✓	✓✓									
3	20	406	0	✓ 0		✓✓									
4	16	407	5	✓ MAX											
5	17	408	5	✓ MAX											
6	18	409	5	✓ MAX											
7	19	410	5	✓ MAX											
8															
9	1	423	320	✓ Bot-10				✓✓							
10	2	424		✓ 300				✓✓							
11	3	425		✓ 250				✓							
12	4	426		✓ 200				✓							
13	5	427		✓ 175				✓							
14	6	428		✓ 150				✓✓							
15	7	429		✓ 125				✓							
16	8	430		✓ 100				✓							leaking
17	9	431		✓ 75				✓							
18	10	432		✓ 50				✓							
19	11	433		✓ 30				✓							
20	13	434		✓ 20				✓							
21	14	435		✓ 10				✓							
22															
23															
24	21	455	0	✓ 0											

Profile type:

☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): MR

Bottom Depth: 327 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1749	1049
Bottom	1755	
End	1814	1114

Positional Information

Start	Lat: 51 ° 31.19	N
	Lon: 127 ° 33.61	W
Bottom	Lat: 51 ° 31.21	N
	Lon: 127 ° 33.61	W
End	Lat: 51 ° 31.19	N
	Lon: 127 ° 33.69	W

Extra comments:

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25 Station: Ri 3 Event #: 124 Ship: TULLY UTC Date (dd|mmm|yyyy): 19 | 5 | 12

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	411			30	29.8		✓		✓							
2	412			5	5.3		✓		✓							
3	413			0	0.8				✓							
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): DK²

Bottom Depth: 325 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Time Start	2005	1305
Bottom	2010	1310
End	2019	1319

Positional Information

Start Lat: 51 ° 35 910 N
 Lon: 127 ° 32 060 W

Start

▼

Bottom Lat: 51 ° 35 870 N
 Lon: 127 ° 32 000 W

Bottom

▼

End Lat: 51 ° 35 860 N
 Lon: 127 ° 31 950 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

Sampling Log

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

Cruise ID: 2012-25 Station: 2:4

Event #: 127

Ship: TULLY

UTC Date (dd/mm/yyyy): 19/05/12

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	NT	CH	GL	Base							
1		414	30	✓ 30	✓	✓									
2		415	5	✓ 5	✓	✓									
3		416	0	✓ 0.5	✓	✓									
4															
5		436	Bot-10	✓ 291.9				xxx							
6		437	250	✓ 250				xx							
7		438	200	✓ 199				xx							
8		439	175	✓ 174.8				xx							
9		440	150	✓ 149.3				xxx							
10		441	125	✓ 124.9				xx							
11		442	100	✓ 100				xx							
12		443	75	✓ 75				xx							
13		444	50	✓ 50				xxx							
14		445	30	✓ 30				xx							
15		446	20	✓ 20				xx							Leaking
16		447	10	✓ 10				xx							
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
 ROS TRM X-Niskin other?
 Watchkeeper(s): DKZ

Bottom Depth: 300 m
 Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	2204	1504
Bottom	2209	1509
End	2229	1529

Positional Information

Lat: 51	° 38 820	N
Lon: 127	° 26 970	W

Start

Bottom

End

Lat: 51	° 38 830	N
Lon: 127	° 26 040	W

Lat: 51	° 38 820	N
Lon: 127	° 27 020	W

Extra comments: Bottle trip
 5-6-7-8-9-10-11
 12-13-14-1-15-16
 2-3

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25 Station: R15 Event #: 129 Ship: Tully UTC Date (dd|mmm|yyyy): 19 | MAY | 2012

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	448			30					X							
2	449			5					X							
3	450			0					X							
4	451			Chl Max	b				X							
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): SR

Bottom Depth: 178 m

Transmisso Cleaned: Y / N

	UTC	Local
Time Start	2338	1638
Bottom	2341	
End	2347	

Positional Information
 Start Lat: 51 ° 40.71 N
 Lon: 127 ° 19.84 W

Start

Bottom Lat: 51 ° 40.72 N
 Lon: 127 ° 19.87 W

Bottom

End Lat: 51 ° 40.71 N
 Lon: 127 ° 19.81 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

Sampling Log

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

Cruise ID: 2012-25 Station: R16

Event #: 131

Ship: TULLY

UTC Date (dd/mm/yyyy): _____

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	WUT	CHL	UBC	UBC	(Gase)						
1		420	30		✓✓	✓✓									
2		421	5		✓✓	✓✓									
3		422	0			✓✓									
4															
5		448	Bot-10						xx						
6		449	100						xx						
7		450	75						xx						
8		451	50						xx						
9		452	30						xxx						
10		453	20						xx						
11		454	10						xx						
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
 ROS TRM X-Niskin other?
 Watchkeeper(s):

Bottom Depth: _____ m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Lat:	°	N
Lon:	°	W

▼

Lat:	°	N
Lon:	°	W

▼

Lat:	°	N
Lon:	°	W

Extra comments:

See following sheet

Water Properties Group

Rosette Log

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

Cruise ID: 2012-25 Station: RIG Event #: 132 Ship: TULLY UTC Date (dd|mmm|yyyy): 20 | MAY | 2012

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		CO ₂	Nut JBC	Cell JBC		
1	448			136								xx				
2				125												
3	449			166								xxx				
4	450			75								xx				
5	451			56								xx				
6	452			30								xxx				
7	453			20								xx				
8	454			10								xx				
9				5												
10																
11	420			30									xx	xx		
12				20												
13				10												
14	421			5									xx	xx		
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): SR

Bottom Depth: 145 m

Transmisso Cleaned: Y ☒ N

	UTC	Local
Time Start	0058	1758
Bottom	0101	
End	0110	

Positional Information
 Start Lat: 51 ° 40.54 N
 Lon: 127 ° 17.07 W

Bottom Lat: 51 ° 40.54 N
 Lon: 127 ° 17.07 W

End Lat: 51 ° 40.53 N
 Lon: 127 ° 17.03 W

Oxygen Info For This Cast
 Blank Value: _____ mL · L⁻¹
 Std Value: _____ mL · L⁻¹
 *Date Run: ____ | ____ | ____
 Analyst: _____

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