

Water Properties Group

Rosette Log

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

Cruise ID: 2011-11 Station: SI Event #: 1 Ship: VECTOR UTC Date (dd|mmm|yyyy): 28 | Nov | 2011

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	1			100	✓	101	✓	✓									
2	2			75	✓	75	✓	✓	✓								
3	3			50	✓	50	✓	✓									
4	4			40	✓	40	✓	✓									
5	5			30	✓	30	✓	✓									
6	6			20	✓	20	✓	✓		✓✓	✓✓						
7	7			10	✓	10	✓	✓		✓✓	✓✓						
8	8			5	✓	5	✓	✓		✓✓	✓✓						
9	9			stc		2.7	✓	✓		✓✓	✓✓						
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): P/HH

Bottom Depth: 184 m

Transmisso Cleaned: (Y) / N

	UTC	Local
Time		
Start	23 41	15 41
Bottom	23 43	15 43
End	23 52	15 52

Positional Information

Start

Lat: 48 ° 39.13 N

Lon: 123 ° 30.60 W

Bottom

Lat: 48 ° 39.13 N

Lon: 123 ° 30.60 W

End

Lat: 48 ° 39.13 N

Lon: 123 ° 30.60 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: 2011-11 Station: 59 Event #: 3 Ship: VECTOR UTC Date (dd|mmm|yyyy): 20 | 11 | 11

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	pH	DOC Tit					
1	10			B-5	☒ 222	☒	☒				/	/					
2	11			200	☒			☒			//	//					
3	12			175	☒						/	/					
4	13			150	☒						/	/					
5	14			125	☒	☒					/	/					
6	15			100	☒						/	/					
7	16			75	☒		☒				/	/					
8	17			50	☒						/	/					
9	18			40	☒						/	/					
10	19			30	☒						/	/					
11	20			20	☒				☒		//	//					
12	21			10	☒				☒		/	/					
13	22			5	☒						/	/					
14	23			SFC	☒	☒	☒		☒	☒	/	/					
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): H.M / M.H / K.S

Bottom Depth: 228 m
Transmisso Cleaned: ☒ / N

Time	UTC	Local
Start	0232	1032
Bottom	0237	
End	0253	

Positional Information
Start
Lat: 48 ° 37.75 N
Lon: 123 ° 14.60 W

Bottom
Lat: 48 ° 37.74 N
Lon: 123 ° 14.58 W

End
Lat: 48 ° 37.76 N
Lon: 123 ° 14.57 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: 2011-11 Station: 102 Event #: 7 Ship: Vector UTC Date (dd|mmm|yyyy): 29 | NOV | 2011

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 iPLC	PH	DIC		
1	24			B-10	✓ 242						1	1		
2	25			200	✓ 200			X			XX	XX		
3	26			175	✓ 175									
4	27			150	✓ 150									
5	28			125	✓ 125	XX								
6	29			100	✓ 100									
7	30			75	✓ 75		XX							
8	31			50	✓ 50									
9	32			40	✓ 40									
10	33			30	✓ 30						XX	XX		
11	34			20	✓ 20				XX					
12	35			10	✓ 10				XX					
13	36			5	✓ 5									
14	37			surf	2.2				XX	XX				
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): P. S. C.

Bottom Depth: 257 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1340	0540
Bottom	1347	0547
End		

Positional Information
Start
Lat: 48 ° 29.97 N
Lon: 124 ° 43.98 W

Bottom
Lat: 48 ° 29.95 N
Lon: 124 ° 43.97 W

End
Lat: 48 ° 29.95 N
Lon: 124 ° 43.64 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: 2011-11 Station: 75 Event #: 10 Ship: VECTOR UTC Date (dd|mmm|yyyy): 29 | Nov | 2011

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 NO ₃						
1	38			6-10	✓ 215		✓									
2	39			200	✓ 200		✓									
3	40			175	✓ 175		✓									
4	41			150	✓ 150		✓									
5	42			125	✓ 125		✓									
6	43			100	✓ 100		✓									
7	44			75	✓ 75		✓									
8	45			50	✓ 50		✓									
9	46			40	✓ 40		✓									
10	47			30	✓ 30		✓									
11	48			20	✓ 20		✓		✓✓							
12	49			10	✓ 10		✓		✓✓							
13	50			5	✓ 5		✓		✓✓	✓✓						
14	51			5-10	✓ 2.7		✓		✓✓	✓✓						
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): P D = G

Bottom Depth: 223 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1707	0907
Bottom	1712	0912
End	1727	0927

Positional Information
Start
Lat: 48 ° 28.22 N
Lon: 124 ° 32.83 W

Bottom
Lat: 48 ° 28.20 N
Lon: 124 ° 32.85 W

End
Lat: 48 ° 28.13 N
Lon: 124 ° 32.99 W

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

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

Water Properties Group

Rosette Log

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

Cruise ID: 2011-11 Station: 72 Event #: 13 Ship: VECTOR UTC Date (dd|mmm|yyyy): 29 | NOV | 2011

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 NPLC	PH	DIC		
1	52			6-10	✓ 183	✓	✓				✓	✓		
2	53			175	✓	✓	✓	✓			✓	✓		
3	54			150	✓	✓	✓				✓	✓		
4	55			125	✓	✓	✓				✓	✓		
5	56			100	✓	✓	✓				✓	✓		
6	57			75	✓	✓	✓				✓	✓		
7	58			50	✓	✓	✓				✓	✓		
8	59			40	✓	✓	✓				✓	✓		
9	60			30	✓	✓	✓				✓	✓		
10	61			20	✓	✓	✓		✓		✓	✓		
11	62			10	✓	✓	✓		✓		✓	✓		
12	63			5	✓	✓	✓		✓		✓	✓		
13	64			SPC	✓	✓	✓		✓	✓	✓	✓		
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M. / H.S.

Bottom Depth: 187 m

Transmisso Cleaned: (Y) N

	UTC	Local
Start	2138	1338
Bottom	2142	
End	2157	

Positional Information

Start

Lat: 48 ° 18.63 N

Lon: 124 ° 03.99 W

Bottom

Lat: 48 ° 18.62 N

Lon: 124 ° 04.01 W

End

Lat: 48 ° 18.55 N

Lon: 124 ° 03.98 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

OXY - RGA CASE

Water Properties Group

Rosette Log

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

Cruise ID: 2011-11 Station: 69 Event #: 16 Ship: VECTOR UTC Date (dd|mmm|yyyy): 30 | 11 | 11

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	PH ₄				
1	65			B-5	☒ 174	✓	✓							
2	66			150	☒	✓	✓	✓						
3	67			125	☒	✓	✓							
4	68			100	☒	✓	✓							
5	69			75	☒	✓	✓							
6	70			50	☒	✓	✓							
7	71			40	☒	✓	✓							
8	72			30	☒	✓	✓							
9	73			20	☒	✓	✓		✓✓					
10	74			10	☒	✓	✓		✓✓					
11	75			5	☒	✓	✓		✓✓					
12	76			SEC	☒	✓	✓		✓✓	✓✓				
13														
14														
15														
16														
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19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M./M.H./K.S.

Bottom Depth: 176 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0914	2014
Bottom	0918	
End	0432	

Positional Information
Start
Lat: 48 ° 15.60 N
Lon: 123 ° 43.20 W

Bottom
Lat: 48 ° 15.61 N
Lon: 123 ° 43.22 W

End
Lat: 48 ° 15.58 N
Lon: 123 ° 43.22 W

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

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

Water Properties Group

Rosette Log

Institution: Canadian Centre for

Ocean Sciences Division, Sidney, BC

Cruise ID: 2011-11

Station: ADCP

Event #: 18

UTC Date (dd|mmm|yyyy): 30 | 11 | 11

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	NH ₄ HPLC				
1	77			Bst 5	✓ 115									
2	78			100	✓ 100			X						
3	79			75	✓ 75									
4	80			50	✓ 50									
5	81			40	✓ 40	XX								
6	82			30	✓ 30									
7	83			20	✓ 20		XX		XX					
8	84			10	✓ 10				XX					
9	85			5	✓ 5									
10	86			Surf	✓ 2.7				XX	XX				
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Should be event # 19

Watchkeeper(s): A.M. / M.A. / K.S.

Bottom Depth: 118 m

Transmisso Cleaned: ☒ Y / ☐ N

	Time	UTC	Local
Start		0753	2353
Bottom		0756	2356
End		08	00

Positional Information

Start
 Lat: 48 ° 13.97 N
 Lon: 123 ° 18.06 W

Bottom
 Lat: 48 ° 13.96 N
 Lon: 123 ° 18.05 W

End
 Lat: 48 ° 13.96 N
 Lon: 123 ° 18.06 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: 2011-11 Station: 65 Event #: 23 Ship: VECTOR UTC Date (dd|mmm|yyyy): 30 | Nov | 2011

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	pH			
1	87			B-5	☒	120								
2	88			100	☒	100		✓						
3	89			75	☒	75								
4	90			50	☒	50	✓							
5	91			40	☒	40					✓			
6	92			30	☒	30								
7	93			20	☒	20			✓✓					
8	94			10	☒	10			✓✓					
9	95			5	☒	5								
10	96			SPC	☒	2.3			✓✓	✓✓				
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): RE/DS/GC

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1048	0248
Bottom	1054	0254
End	1103	0303

Positional Information

Start	Lat: 48 °	15.91	N
	Lon: 123 °	9.78	W

▼

Bottom	Lat: 48 °	15.91	N
	Lon: 123 °	9.84	W

▼

End	Lat: 48 °	15.93	N
	Lon: 123 °	9.82	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: 2011-11 Station: 62 Event #: 26 Ship: VECTOR UTC Date (dd|mmm|yyyy): 30 | Nov | 2011

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 NALC				
1	97			13-5	✓ 145									
2	98			125	✓ 125			✓						
3	99			100	✓ 100									
4	100			75	✓ 75	✓								
5	101			50	✓ 50									
6	102			40	✓ 40		✓							
7	103			30	✓ 30									
8	104			20	✓ 20				✓✓					
9	105			10	✓ 10				✓✓					
10	106			5	✓ 5									
11	107			stc	✓ 2.2				✓✓	✓✓				
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): RE/DS/GC

Bottom Depth: 150 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Start	1331	0531
Bottom	1335	0535
End	1345	0545

Positional Information

Start

Lat: 48 ° 22.77 N

Lon: 123 ° 2.66 W

Bottom

Lat: 48 ° 22.81 N

Lon: 123 ° 2.65 W

End

Lat: 48 ° 22.86 N

Lon: 123 ° 2.53 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: 2011-11 Station: 56 Event #: 32 Ship: VECTOR UTC Date (dd|mmm|yyyy): 30 | Nov | 2011

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	108			8-5	☒	217											
2	109			200	☒												
3	110			175	☒			☒									
4	111			150	☒		☒										
5	112			125	☒												
6	113			100	☒												
7	114			75	☒												
8	115			50	☒												
9	116			40	☒												
10	117			30	☒			☒									
11	118			20	☒		☒			☒	☒						
12	119			10	☒					☒	☒						
13	120			5						☒	☒						
14	121			SFC						☒	☒						
15	122			SFC							☒						
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): AM / MH / KS

Bottom Depth: 215 m

Transmisso Cleaned: ☒ Y / N

Time	UTC	Local
Start	2017	1217
Bottom	2021	
End	2037	

Positional Information

Start
Lat: 48 ° 46. 36 N
Lon: 123 ° 01. 62 W

Bottom
Lat: 48 ° 46. 34 N
Lon: 123 ° 01. 63 W

End
Lat: 48 ° 46. 37 N
Lon: 123 ° 01. 61 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: 2011-11 Station: 46 Event #: 39 Ship: Vector UTC Date (dd|mmm|yyyy): 1 | 12 | 11

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 ⁺	TP	PO ₄	NO ₃	
1	123			B-10	☒ 176									
2	124			150	☒		xx	x						
3	125			125	☒	xx								
4	126			100	☒									
5	127			75	☒									
6	128			50	☒									
7	129			40	☒									
8	130			30	☒									
9	131			20	☒		xx		xx					
10	132			10	☒	xx			xx					
11	133			5	☒									
12	134			surf	☒				xx	xx	x			
13	135			surf	☒				xxxx					
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M./M.H./K.S.

Bottom Depth: 178 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0134	1734
Bottom	0138	
End	0151	

Positional Information
Start
Lat: 48 ° 51.40 N
Lon: 123 ° 10.74 W

Bottom
Lat: 48 ° 51.36 N
Lon: 123 ° 10.77 W

End
Lat: 48 ° 51.38 N
Lon: 123 ° 10.78 W

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

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

Water Properties Group

Rosette Log

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

Cruise ID: 2011-11 Station: 42 Event #: 43 Ship: VECTOR UTC Date (dd|mmm|yyyy): 1 | 12 | 11

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	pH	D ₁₅ /‰				
1	136			316	✓	B-5	✓	✓			✓	✓				
2	137			300	✓			✓								
3	138			250	✓		✓									
4	139			200	✓						✓	✓				
5	140			175	✓		✓									
6	141			150	✓											
7	142			125	✓											
8	143			100	✓							✓				
9	144			75	✓		✓									
10	145			50	✓							✓				
11	146			40	✓		✓									
12	147			30	✓											
13	148			20	✓				✓			✓				
14	149			10	✓				✓			✓				
15	150			5	✓						✓					
16	151			SFC	✓		✓		✓	✓	✓	✓				
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): HM / MU / KS.

Bottom Depth: _____ m

Transmisso Cleaned: (Y) 1 N

Time	UTC	Local
Start	0516	2116
Bottom	0522	
End	0540	

Positional Information

Start Lat: 49 ° 01.80 N
Lon: 123 ° 26.24 W

Bottom Lat: 49 ° 01.79 N
Lon: 123 ° 26.26 W

End Lat: 49 ° 01.81 N
Lon: 123 ° 26.27 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: 2011-11 Station: 39 Event #: 48 Ship: VECTOR UTC Date (dd|mmm|yyyy): 1 | 12 | 11

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	NO ₃	PO ₄	SiO ₄	
1	152			B-5	✓ 378	✓	✓							
2	153			350	✓ 353			✓						
3	154			300	✓ 302	✓								
4	155			250	✓ 251									
5	156			200	✓ 201									
6	157			175	✓ 176		✓							
7	158			150	✓ 151									
8	159			125	✓ 126									
9	160			100	✓ 100									
10	161			75	✓ 75		✓							
11	162			50	✓ 50									
12	163			40	✓ 40									
13	164			30	✓ 30									
14	165			20	✓ 20	✓			✓					
15	166			10	✓ 10				✓					
16	167			5	✓ 5				✓					
17	168			SFC	✓ 2.8	✓	✓		✓	✓				
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): PC / DS / GC

Bottom Depth: 385 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0944	144
Bottom	0953	153
End	1014	214

Positional Information

Start Lat: 49 ° 9.38 N
Lon: 123 ° 33.01 W

Bottom Lat: 49 ° 9.40 N
Lon: 123 ° 33.03 W

End Lat: 49 ° 9.37 N
Lon: 123 ° 32.97 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: 2011-11 Station: 27 Event #: 51 Ship: VECTOR UTC Date (dd|mmm|yyyy): 01 | DEC | 2011

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 NH₄Cl	PH	DIC				
1	169			B-5	✓ 342	✓	✓				✓	✓				
2	170			300	✓ 300			✓								
3	171			250	✓ 250											
4	172			200	✓ 201	✓					✓	✓				
5	173			175	✓ 175		✓									
6	174			150	✓ 150						✓					
7	175			125	✓ 125											
8	176			100	✓ 100							✓✓				
9	177			75	✓ 75											
10	178			50	✓ 50	✓						✓				
11	179			40	✓ 40		✓									
12	180			30	✓ 30						✓					
13	181			20	✓ 20				✓✓			✓				
14	182			10	✓ 10				✓✓			✓				
15	183			5	✓ 5											
16	184			stc	✓ 2.89	✓	✓		✓✓	✓✓	✓	✓				
17				x2												
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): _____

Bottom Depth: 345 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1251	0451
Bottom	1300	0500
End		

Positional Information

Start
Lat: 49 ° 19.12 N
Lon: 123 ° 47.96 W

Bottom
Lat: 49 ° 19.12 N
Lon: 123 ° 48.07 W

End
Lat: 49 ° _____ N
Lon: 123 ° _____ 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: 2011-11 Station: 2 Event #: 55 Ship: VECTOR UTC Date (dd|mmm|yyyy): 01 | DEC | 2011

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	185			3-5	☒ 274	☒	☒							
2	186			250	☒ 250			☒						
3	187			200	☒ 200									
4	188			175	☒ 175									
5	189			150	☒ 150	☒								
6	190			125	☒ 125									
7	191			100	☒ 100		☒							
8	192			75	☒ 75									
9	193			50	☒ 50	☒								
10	194			40	☒ 40									
11	195			30	☒ 30		☒							
12	196			20	☒ 20				☒					
13	197			10	☒ 10				☒					
14	198			5	☒ 5				☒					
15	199			sfc	☒ 2.5	☒	☒		☒	☒				
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): 12/DS

Bottom Depth: 283 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Start	1659	0859
Bottom	1705	0905
End		

Positional Information

Start
 Lat: 49 ° 24.11 N
 Lon: 124 ° 9.33 W

Bottom
 Lat: 49 ° 24.12 N
 Lon: 124 ° 9.31 W

End
 Lat: 49 ° N
 Lon: 124 ° 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: 2011-11 Station: 3 Event #: 58 Ship: VECTOR UTC Date (dd|mmm|yyyy): 01 | DEC | 2011

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	200			B-5	✓ 320	N	✓									
2	201			300	✓ 300	0		✓								
3	202			250	✓ 250											
4	203			200	✓ 200	0										
5	204			175	✓ 175	Y	✓									
6	205			150	✓ 150	Y										
7	206			125	✓ 125	G										
8	207			100	✓ 100	E										
9	208			75	✓ 75	N										
10	209			50	✓ 50											
11	210			40	✓	S	✓									
12	211			30	✓	A										
13	212			20	✓	H			✓							
14	213			10	✓	P			✓							
15	214			5	✓	L										
16	215			sfc	✓	E	✓		✓	✓						
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): R/DS

Bottom Depth: 325 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1922	1123
Bottom	1931	
End	1949	

Positional Information

Start Lat: 49 ° 26.60 N
Lon: 124 ° 20.10 W

Bottom Lat: 49 ° 26.62 N
Lon: 124 ° 20.20 W

End Lat: 49 ° 26.61 N
Lon: 124 ° 20.24 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: 2011-11 Station: 6 Event #: 60 Ship: VECTOR UTC Date (dd|mmm|yyyy): 01 | DEC | 2011

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 NPLC				
1	216			B-5	☒ 189	☒	☒							
2	217			175	☒	☒		☒						
3	218			150	☒	☒	☒							
4	219			125	☒	☒								
5	220			100	☒	☒								
6	221			75	☒	☒								
7	222			50	☒	☒	☒							
8	223			40	☒	☒								
9	224			30	☒	☒								
10	225			20	☒				☒	☒				
11	226			10	☒				☒	☒				
12	227			5	☒	☒	☒							
13	228			sfc	☒	☒	☒		☒	☒				
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): HM/MH/KS

Bottom Depth: 195 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2126	1320
Bottom	2124	
End	2137	

Positional Information

Start
Lat: 49 ° 30.58 N
Lon: 124 ° 27.73 W

Bottom
Lat: 49 ° 30.58 N
Lon: 124 ° 27.74 W

End
Lat: 49 ° 30.55 N
Lon: 124 ° 27.76 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: 2011-11 Station: 9 Event #: 63 Ship: Vector UTC Date (dd|mmm|yyyy): 2 | 12 | 11

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	229			B-10	✓ 164		1									
2	230			150	✓		xx	x								
3	231			125	✓		1									
4	232			100	✓		1									
5	233			75	✓		1									
6	234			50	✓		xx									
7	235			40	✓		1									
8	236			30	✓		1									
9	237			20	✓		1		xx							
10	238			10	✓		1		xx							
11	239			5	✓		1									
12	240			0	✓		1		xx	xx						
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s):
HM/MH/MS

Bottom Depth: 176 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0000	1600
Bottom	0003	
End	0016	

Positional Information

Start
Lat: 49 ° 35. 43 N
Lon: 124 ° 38. 36 W

Bottom
Lat: 49 ° 35. 47 N
Lon: 124 ° 38. 33 W

End
Lat: 49 ° 35. 45 N
Lon: 124 ° 38. 29 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: 2011-11 Station: 12 Event #: 66 Ship: VECTOR UTC Date (dd|mmm|yyyy): 2 | 12 | 11

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	PH	DIC/ALK				
1	241			351	✓	B-5	✓	✓				✓	✓				
2	242			300	✓		✓	✓	✓			✓					
3	243			250	✓		✓	✓				✓					
4	244			200	✓		✓	✓				✓					
5	245			175	✓		✓	✓				✓					
6	246			150	✓		✓	✓				✓					
7	247			125	✓		✓	✓				✓					
8	248			100	✓		✓	✓				✓					
9	249			75	✓		✓	✓				✓					
10	250			50	✓		✓	✓				✓	✓				
11	251			40	✓		✓	✓				✓					
12	252			30	✓		✓	✓				✓					
13	253			20	✓		✓	✓		✓		✓					
14	254			10	✓		✓	✓		✓		✓					
15	255			5	✓		✓	✓		✓		✓					
16	256			SFC	✓		✓	✓		✓	✓	✓	✓				
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MM/MH/HS

Bottom Depth: 356 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	0220	1920
Bottom	0226	
End	0245	

Positional Information
 Start Lat: 49 ° 43.62 N
 Lon: 124 ° 40.79 W

Bottom Lat: 49 ° 43.63 N
 Lon: 124 ° 40.77 W

End Lat: 49 ° 43.61 N
 Lon: 124 ° 40.72 W

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

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

Water Properties Group

Rosette Log

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

Cruise ID: 2011-11 Station: 14 Event #: 70 Ship: VECTOR UTC Date (dd|mmm|yyyy): 2 | 12 | 11

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	PH	DIC /ALK				
1	257			13.5	☒ 310	☒	☒				☒	☒				
2	258			250	☒ 250	☒		☒								
3	259			200	☒ 200	☒						☒				
4	260			175	☒ 175	☒										
5	261			150	☒ 150	☒					☒					
6	262			125	☒ 125	☒	☒									
7	263			100	☒ 100	☒						☒				
8	264			75	☒ 75	☒										
9	265			50	☒ 50	☒					☒	☒				
10	266			40	☒ 40	☒										
11	267			30	☒ 30	☒										
12	268			20	☒ 20	☒			☒			☒				
13	269			10	☒ 10	☒			☒			☒				
14	270			5	☒ 5	☒	☒									
15	271			SFC	☒ 2.8	☒	☒		☒	☒	☒	☒				
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): PC/DS/GC

Bottom Depth: 315 m

Transmissio Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0927	0127
Bottom	0934	0134
End	0951	0151

Positional Information

Start Lat: 49 ° 53.02 N
Lon: 124 ° 59.64 W

Bottom Lat: 49 ° 53.02 N
Lon: 124 ° 59.63 W

End Lat: 49 ° 53.00 N
Lon: 124 ° 59.76 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: 2011-11 Station: 16 Event #: 75 Ship: VECTOR UTC Date (dd|mmm|yyyy): 02 | DEC | 2011

Niskin #	Sample #	Oxygen Titrations		Rosette Operation			Samples Taken						Comments			
		Flask Serial #	Value mL * L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	NH₄ HPLC						
1	272			B-5	✓	152	✓	✓								
2	273			125	✓	125	✓		✓							
3	274			100	✓	100	✓									
4	275			75	✓	75	✓									
5	276			50	✓	50	✓									
6	277			40	✓	40	✓									
7	278			30	✓	30	✓									
8	279			20	✓	20				✓✓						
9	280			10	✓	10				✓✓						
10	281			5	✓	5										
11	282			sfc	✓	2.2	✓	✓		✓✓	✓✓					
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): PC/JS/GC

Bottom Depth: 155 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1339	0539
Bottom	1343	0543
End	1353	0553

Positional Information

Start
 Lat: 49 ° 57.71 N
 Lon: 125 ° 8.79 W

Bottom
 Lat: 49 ° 57.72 N
 Lon: 125 ° 8.78 W

End
 Lat: 49 ° 57.70 N
 Lon: 125 ° 8.79 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹
 Std Value: _____ mL · L⁻¹
 *Date Run: ____ | ____ | ____
 Analyst: _____

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