

Water Properties Group

Rosette Log

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

Cruise ID: 2009 64

Station: ST

Event #: 1

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 30 | Nov | 2009

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	APIC			
1	1	745	0.682	100	✓	100	✓	✓	✓						
2	2	1126	3.538	75	✓	75	✓	✓							
3	3	1481	X	50	✓	50	✓	✓							- bubble on lens
4	4	1476	3.325	40	✓	40	✓	✓							
5	5	1478	3.726	30	✓	30	✓	✓							
6	6	1473	4.501	20	✓	20	✓	✓		✓✓		✓✓			
7	7	1464	5.178	10	✓	9.9	✓	✓		✓✓		✓✓			
8	8	1128	5.361	5	✓	4.9	✓	✓							
9	9	1335	5.945	SFC	✓	1	✓	✓		✓✓					
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): _____

Bottom Depth: 172 m

Transmisso Cleaned: (Y) / N

	Time	UTC	Local
Start		2223	
Bottom		2236	
End		2244	

Positional Information			
Start	Lat:	°	N
	Lon:	°	W

Bottom	Lat:	48 ° 39 398	N
	Lon:	123 ° 29 960	W

End	Lat:	48 ° 39 350	N
	Lon:	123 ° 30 136	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: 64 Station: 59 Event #: 3 Ship: Vector UTC Date (dd|mmm|yyyy): 01 | 12 | 2009

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	10	1306	5.008	B-5	✓ 221	✓	✓									
2	11	1459	5.021	200	✓	✓	✓									
3	12	1317	5.019	175	✓		✓									
4	13	1477	5.077	150	✓											
5	14	668	5.056	125	✓											
6	15	1134	5.062	100	✓											
7	16	1483	X	75	✓											
8	17	1498	5.080	50	✓	✓										
9	18	1489	5.066	40	✓											
10	19	3028	5.087	30	✓											
11	20	3116	5.101	20	✓				✓✓							
12	21	3178	5.139	10	✓	✓			✓✓	✓✓						
13	22	3061	5.138	5	✓	✓	✓		✓✓							
14	23	3207	5.210	0	✓	✓	✓		✓✓							
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): RH + NW²

Bottom Depth: 222 m

Transmisso Cleaned: ✓ N

Time	UTC	Local
Start	01:24	17:24
Bottom	01:29	17:29
End	01:46	17:46

Positional Information

Start
Lat: 48 ° 37.819 N
Lon: 123 ° 14.753 W

Bottom
Lat: 48 ° 37.675 N
Lon: 123 ° 14.616 W

End
Lat: 48 ° 37.453 N
Lon: 123 ° 14.458 W

Oxygen Info For This Cast

Blank Value: 0.000 mL · L⁻¹

Std Value: 0.717 mL · L⁻¹

*Date Run: | |

Analyst: NINA

* 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: 2009-64

Station: 102

Event #: 7

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 01 | DEC | 2009

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	24	1306	1.903	801-5	✓ 245											0.313
2	25	1459	1.818	250	✓ 245			✓								Quilting high → fixed
3	26	1317	1.773	200	✓ 200											O ₂ even higher?
4	27	1477	2.040	175	✓ 177											Incomp as #26
5	28	668	2.168	150	✓ 154	✓										Dup: flask: 134, DO: 2.164
6	29	1483	2.495	125	✓ 126											moved endpoint 1 left
7	30	1498	3.095	100	✓ 100											
8	31	1485	3.823	75	✓ 76											
9	32	1489	4.598	50	✓ 50		✓									moved endpoint 1 left
10	33	3028	4.718	40	✓ 40											
11	34	3116	5.174	30	✓ 30	✓										Dup flask: 3178, DO: 5.166
12	35	2056	5.650	20	✓ 20				✓✓							
13	36	3061	5.575	10	✓ 10				✓✓	✓✓						
14	37	3207	5.714	5	✓ 4.5											
* 15	38	3182	5.743	0	✓ .5	✓	✓		✓✓							bottle 15 in air
16																tripped 16 + 17
17																as extra Surface
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): (DT)²

Bottom Depth: 256 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1221	
Bottom	1228	
End	1248	

Positional Information

Start Lat: 48 ° 29 989 N

Lon: 124 ° 43 993 W

Bottom Lat: 48 ° 30 089 N

Lon: 124 ° 43 983 W

End Lat: 48 ° 30 056 N

Lon: 124 ° 43 898 W

Oxygen Info For This Cast

Blank Value: 0.000 mL · L⁻¹

Std Value: 0.717 mL · L⁻¹

*Date Run: 30 | Nov | 2009

Analyst: Mel

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

* Surface sample taken from Niskin # 16

Water Properties Group

Rosette Log

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

Cruise ID: 2009-64

Station: 75

Event #: 10

Ship: Vector

UTC Date (dd|mmm|yyyy): 1 | 12 | 2009

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	39	2065	2.047	B-10	✓ 210									
2	40	2088	2.054	200	✓ 200			X						
3	41	2000	2.118	175	✓ 175									
4	42	2061	2.300	150	✓ 151									
5	43	3177	2.737	125	✓ 125	X								
6	44	3133	3.515	100	✓ 101									
7	45	3188	3.673	75	✓ 76									
8	46	2089	4.485	50	✓ 50									
9	47	471	4.683	40	✓ 40		X							
10	48	1490	4.863	30	✓ 30									
11	49	2068		20	✓ 20				XX					NO TRIP
12	50	2082	5.333	10	✓ 9.6	X			XX	XX				
13	51	2090	5.584	5	✓ 4.8				XX					
14	52	2027	5.837	0	✓ 1.7				XX					
15														
16														
17	43	3184	2.734	125										
18	50	708	5.321	10										
19														
20														
21														
22														
23														
24														

Watchkeeper(s): (DT)²

Bottom Depth: 225 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1518	0718
Bottom	1524	0724
End	1542	0742

Positional Information

Start	Lat: 48 ° 28 214 N
Start	Lon: 124 ° 32 837 W

Bottom

Bottom	Lat: 48 ° 28 241 N
Bottom	Lon: 124 ° 32 898 W

End

End	Lat: 48 ° 28 171 N
End	Lon: 124 ° 32 845 W

Oxygen Info For This Cast

Blank Value:	<u>0.000</u> mL · L ⁻¹
Std Value:	<u>0.717</u> mL · L ⁻¹
*Date Run:	<u>30</u> <u>11</u> <u>09</u>
Analyst:	<u>N2</u>

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

Flask broke (stopper)

DUPLICATE
→ 5
→ 12

Water Properties Group

Rosette Log

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

Cruise ID: 2009-64 Station: 72 Event #: 13 Ship: VECTOR UTC Date (dd|mmm|yyyy): 01 | DEC | 2009

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 ₂	PH/10		
1	53	2007	2.372	B-5	☒ 182				0.434	ml				computer crash recalculate
2	54	2015	2.392	175	☒ 176			x						
3	55	2035	2.366	150	☒ 151	x								
4	56	3109	2.392	125	☒ 125									
5	57	2055	3.047	100	☒ 100									
6	58	1497	3.585	75	☒ 75									
7	59	2064	4.220	50	☒ 50		x							
8	60	2099	4.469	40	☒ 40									
9	61	3034	5.080	30	☒ 30									
10	62	3038	5.127	20	☒ 20	x			xx					
11	63	3052	5.245	10	☒ 10				xx	xx	xx			
12	64	1492	5.391	5	☒ 5									
13	65	3124	5.385	0	☒ 0				xx					
14														
15														
16														
3	55	2032	2.360	150										
10	62	3040	5.130	20										
19														
20														
21														
22														
23														
24														

DUP
DUP

Watchkeeper(s): PERH

Bottom Depth: 190 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	20 01	12 01
Bottom	20 06	12 06
End	20 19	12 19

Positional Information

Start
Lat: 48 ° 18.599 N
Lon: 124 ° 4.007 W

Bottom
Lat: 48 ° 18.592 N
Lon: 124 ° 3.980 W

End
Lat: 48 ° 16.600 N
Lon: 124 ° 3.805 W

Oxygen Info For This Cast

Blank Value: 0.000 mL · L⁻¹

Std Value: 0.717 mL · L⁻¹

*Date Run: 30 NOV 09

Analyst: NL

* 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: 2009-64 Station: 69 Event #: 16 Ship: VECTOR UTC Date (dd|mmm|yyyy): 01 | DEC | 2009

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	66	1298	2.337	B-5	☒ 175									2 dropped out tubes samples 66*67 were dumped in to new tubes, not rinsed
2	67	1316	2.333	150	☒ 151			X						
3	68	1393	2.370	125	☒ 125	X								
4	69	2019	2.971	100	☒ 100									
5	70	1401	4.268	75	☒ 75									short chain maybe leaked stopper out a bit
6	71	1392	4.602	50	☒ 50		X							
7	72	1377	4.773	40	☒ 40									
8	73	1300	4.838	30	☒ 30									
9	74	1318	4.851	20	☒ 20	X			xx					
10	75	3160	5.173	10	☒ 10				xx	xx				
11	76	1491	5.203	5	☒ 5									
12	77	1313	5.182	0	☒ 0				xx					
13														
14														
DUP 2	68	1402	2.386	125										
DUP 9	74	1314	4.851	20										
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): RE N/A

Bottom Depth: 180 m

Transmisso Cleaned: ☒ Y / N

Time	UTC	Local
Start	23 05	15 05
Bottom	23 10	15 10
End	23 22	15 22

Positional Information

Start
Lat: 48 ° 15 766 N
Lon: 123 ° 43 112 W

Bottom
Lat: 48 ° 15 768 N
Lon: 123 ° 43 142 W

End
Lat: 48 ° 15 826 N
Lon: 123 ° 43 090 W

Oxygen Info For This Cast

Blank Value: 0.000 mL ☒
Std Value: 0.717 mL ☒
*Date Run: 30 | NOV | 2009
Analyst: N2

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

Water Properties Group

Rosette Log

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

Cruise ID: 2009-64

Station: ADCP

Event #: 19

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 02 | 12 | 2009

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	78	745	3.004	Bot-5	☒ 113									-some nutrients overfilled, expanded past cap on freezing
2	79	1126	3.110	100	☒			X						
3	80	1481	3.622	75	☒									
4	81	1478	4.576	50	☒		X							
5	82	1476	4.633	40	☒									
6	83	1473	4.808	30	☒									
7	84	1464	4.834	20	☒	X			XX					
8	85	1335	4.849	10	☒				XX	XX				
9	86	3007	5.064	5	☒									
10	87	1421	5.115	0	☒				XX					
11														
12														
13	DUP. 78	84	1128	4.855	20									
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): RL + NN

Bottom Depth: 113 m

Transmisso Cleaned: Y N

Time	UTC	Local
Start	02:53	18:53
Bottom	02:54	18:54
End	03:04	19:04

Positional Information

Start
Lat: 48 ° 13.991 N
Lon: 123 ° 18.116 W

Bottom
Lat: 48 ° 13.980 N
Lon: 123 ° 18.240 W

End
Lat: 48 ° 13.962 N
Lon: 123 ° 18.661 W

Oxygen Info For This Cast

Blank Value: 0.000 mL ☒

Std Value: 0.717 mL ☒

*Date Run: 30 NOV 09

Analyst: N²

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

Water Properties Group

Rosette Log

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

Cruise ID: 2009-64

Station: 65

Event #: 23

Ship: Vector

UTC Date (dd|mmm|yyyy): 02 | 12 | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	APLC			
1	88	2007	4.086	607-5	☒ 120									
2	89	2015	4.719	100	☒			X						
3	90	2032	4.821	75	☒	X								
4	91	3109	4.874	50	☒									
5	92	2055	4.901	40	☒									
6	93	1497	5.089	30	☒		X							
7	94	2064	5.230	20	☒				XX					
8	95	2099	5.303	10	☒				XX	XX				
9	96	3034	5.388	5	☒									
10	97	3038	5.407	0	☒	✓	✓		XX					
11														
12														
13	90	2035	4.828	75										
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): RL + NN

Bottom Depth: 123 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	05:49	21:55
Bottom	05:51	21:51
End	06:03	22:03

Positional Information

Start Lat: 48° 15.596 N
Lon: 123° 9.968 W

Bottom Lat: 48° 16.003 N
Lon: 123° 9.985 W

End Lat: 48° 16.051 N
Lon: 123° 10.079 W

Oxygen Info For This Cast

Blank Value: 0.000 mL · L⁻¹

Std Value: 0.717 mL · L⁻¹

*Date Run: 30 | NOV | 2009

Analyst: NZ

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

Water Properties Group

Rosette Log

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

Cruise ID: 2009-64 Station: 62 Event #: 26 Ship: Vector UTC Date (dd|mmm|yyyy): 02 | 12 | 2009

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	WPC					
1	98	745	4.089	BOT-5	☒ 139											
2	99	1126	4.814	125	☒ 127			X								2LE sampler
3	100	1481	4.981	100	☒ 102											DT pickler
4	101	1478	5.013	75	☒ 75											
5	102	1476	5.022	50	☒ 50											
6	103	1473	5.037	40	☒ 40											
7	104	1464	5.063	30	☒ 30											
8	105	1128	5.096	20	☒ 20		X		XX							
9	106	1335	5.077	10	☒ 10.1				XX	XX						
10	107	3007	5.086	5	☒ 5.2											
11	108	1421	5.103	0	☒ 1.6	✓X	✓		XX							dup flash: 2060, DO: 5.116
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): (DT)²

Bottom Depth: 148 m
Transmisso Cleaned: (Y) 1 N

Time	UTC	Local
Start	0844	0044
Bottom	0848	0048
End	0902	0102

Positional Information
Start
Lat: 48 ° 22.784 N
Lon: 122 ° 02.497 W

Bottom
Lat: 48 ° 22.778 N
Lon: 122 ° 02.500 W

End
Lat: 48 ° 22.805 N
Lon: 122 ° 02.496 W

Oxygen Info For This Cast
Blank Value: 0.000 mL · L⁻¹
Std Value: 0.717 mL · L⁻¹
*Date Run: 30 | Nov | 2009
Analyst: (Me)

* 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: 2009-64 Station: 56 Event #: 31 Ship: Vector UTC Date (dd|mmm|yyyy): 02 | 12 | 2009

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	109	2007	5.041	85	✓ 208									DT - Sampler
2	110	2015	5.024	200	✓ 200			X						2LE - pickler
3	111	2023	5.042	175	✓ 175									
4	112	3109	5.029	150	✓ 150									
5	113	2035	5.029	125	✓ 125									
6	114	1497	5.043	100	✓ 100	X	X							
7	115	2064	5.021	75	✓ 74.6									
8	116	2099	5.021	50	✓ 50									
9	117	3034	5.028	40	✓ 40									
10	118	3038	5.021	30	✓ 30									
11	119	3040	5.016	20	✓ 20	X			XX					
12	120	1492	5.040	10	✓ 10.4				XX	XX				
13	121	3124	5.029	5	✓ 5.4									
14	122	3057	5.084	0	✓ 1.5				XX					
15														
16														
6#	114	2055	5.057	100										
18														
11#	119	3052	4.997	20										
20														
21														
22														
23														
24														

Watchkeeper(s): (DT)²

Bottom Depth: 216 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1411	0611
Bottom	1417	0617
End	1434	0634

Positional Information

Start
Lat: 48 ° 46 450 N
Lon: 123 ° 01 489 W

Bottom
Lat: 48 ° 46 529 N
Lon: 123 ° 01 457 W

End
Lat: 48 ° 46 636 N
Lon: 123 ° 01 504 W

Oxygen Info For This Cast

Blank Value: 0.000 mL · L⁻¹
Std Value: 0.717 mL · L⁻¹
*Date Run: 30 | NOV | 2009
Analyst: MEL/N²

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

* Sampler didn't use proper technique during sample tube withdrawal, some flasks not full to neck

Water Properties Group

Rosette Log

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

Cruise ID: 2009-64 Station: 46 Event #: 39 Ship: VECTOR UTC Date (dd|mmm|yyyy): 02 | DEC | 2009

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	123	745	4.058	B-5	✓ 167											
2	124	1126	4.219	150	✓ 150			X								
3	125	1478	4.673	125	✓ 125											VENT NOT CLOSED
4	126	1481	4.764	100	✓ 100	X										
5	127	1473	4.820	75	✓ 75											
6	128	1464	5.100	50	✓ 50		X									
7	129	1128	5.222	40	✓ 40											
8	130	1335	5.546	30	✓ 30											
9	131	3007	5.928	20	✓ 20	X			XX	XX						
10	132	2060	6.453	10	✓ 10				XX	XX						
11	133	3104	6.675	5	✓ 5											VENT NOT CLOSED
12	134	3069	6.679	0	✓ 0				XX	XX						
13																
14																
4	126	1476	4.759	100												
9	131	1421	5.916	20												
17																
18																
19																
20																
21																
22																
23																
24																

★ Full set of HPLC, Sunny Day

Watchkeeper(s): PC MW

Bottom Depth: 170 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	20 32	12 32
Bottom	20 36	12 36
End	20 49	12 49

Positional Information

Start Lat: 48 ° 51.480 N
Lon: 123 ° 10.675 W

Bottom Lat: 48 ° 51.486 N
Lon: 123 ° 10.686 W

End Lat: 48 ° 51.481 N
Lon: 123 ° 10.603 W

Oxygen Info For This Cast

Blank Value: 0.000 mL • L⁻¹

Std Value: 0.717 mL • L⁻¹

*Date Run: 30 | NOV | 2009

Analyst: NZ

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

Water Properties Group

Rosette Log

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

Cruise ID: 2009-64 Station: 42 Event #: 41 Ship: VECTOR UTC Date (dd|mmm|yyyy): 02 | DEC | 2009

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	MP			
1	135	2065	2.684	B-5	✓ 318									
2	136	2088	2.697	300	✓ 302			X						
3	137	2000	2.738	250	✓ 251									
4	138	2061	3.041	200	✓ 201									
5	139	3177	3.306	175	✓ 175	X								
6	140	3133	3.840	150	✓ 150									
7	141	3188	4.348	125	✓ 125									
8	142	2089	4.436	100	✓ 100									
9	143	471	4.495	75	✓ 75		X							
10	144	1490	4.402	50	✓ 50									
11	145	2068	4.940	40	✓ 40									
12	146	2082	5.267	30	✓ 30									
13	147	708	5.672	20	✓ 20	X			XX					
14	148	2027	6.278	10	✓ 10				XX	XX				
15	149	2073	6.553	5	✓ 5									
16	150	3190	6.639	0	✓ 0				XX					
17														
18														
5	139	3184	3.323	175										
13	147	2090	6.243	20										
21														
22														
23														
24														

Watchkeeper(s): PC MH

Bottom Depth: 322 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2300	1500
Bottom	2307	1507
End	2325	1525

Positional Information

Start	Lat: <u>49</u> ° <u>1.735</u> N
	Lon: <u>123</u> ° <u>26.299</u> W

Bottom

Lat: <u>49</u> ° <u>1.733</u> N
Lon: <u>123</u> ° <u>26.306</u> W

End

Lat: <u>49</u> ° <u>1.764</u> N
Lon: <u>123</u> ° <u>26.298</u> W

Oxygen Info For This Cast

Blank Value:	<u>0.000</u>	mL · L ⁻¹
Std Value:	<u>0.717</u>	mL · L ⁻¹
*Date Run:	<u>30</u> <u>NOV</u> <u>2009</u>	
Analyst:	<u>NZ</u>	

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

bad curve,
maybe wrong
bottle sampled?

Water Properties Group

Rosette Log

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

Cruise ID: 2009-64 Station: 39 Event #: 45 Ship: VECTOR UTC Date (dd|mmm|yyyy): 03 | DEC | 2009

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	PATD				
1	151	2007	2.718	300-5	☒ 370											
2	152	2015	2.709	350	☒			X								
3	153	2032	2.830	300	☒											
4	154	3109	2.923	250	☒	X										
5	155	1497	2.967	200	☒											
6	156	2055	3.023	175	☒											
7	157	2064	3.100	150	☒											
8	158	2099	3.236	125	☒		X									
9	159	3034	3.422	100	☒											
10	160	3038	3.949	75	☒											
11	161	3040	5.166	50	☒											
12	162	3052	5.446	40	☒	X										- moved oxy duphore
13	163	3124	5.790	30	☒	X										- OPEN VENT
14	164	3057	5.942	20	☒	X			XX							
15	165	3098	6.368	10	☒				XX		XX	XXX				
16	166	2051	6.683	5	☒											
17	167	3164	6.728	0	☒	✓	✓		XX							
18																
4	154	2035	2.939	250												
12	162	1492	5.442	40												
21																
22																
23																
24																

Watchkeeper(s): RL + NN

Bottom Depth: 374 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	03 08	19:08
Bottom	03 16	19:16
End	03 38	19:38

Positional Information

Start Lat: 49 ° 9.772 N

Lon: 123 ° 32.926 W

Bottom Lat: 49 ° 9.752 N

Lon: 123 ° 32.723 W

End Lat: 49 ° 9.370 N

Lon: 123 ° 32.146 W

Oxygen Info For This Cast

Blank Value: 0.000 mL · L⁻¹

Std Value: 0.717 mL · L⁻¹

*Date Run: 30 | NOV | 09

Analyst: NL

* 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: 2009-64 Station: 27 Event #: 48 Ship: Vector UTC Date (dd|mmm|yyyy): 03|12|2009

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	HPLO					
1	168	745	2.746	307.5	✓ 337	(x)										
2	169	1478	2.844	300	✓			x								
3	170	1481	2.895	250	✓											
4	171	1476	3.018	200	✓											
5	172	1473	3.090	175	✓		x									
6	173	1464	3.290	150	✓											
7	174	1335	3.444	125	✓											
8	175	1128	3.742	100	✓											
9	176	3100	3.124	75	✓											
10	177	1421	3.097	50	✓											oxy computer crashed
11	178	2060	6.228	40	✓											
12	179	3204	3.483	30	✓											
13	180	3104	4.686	20	✓				xx							
14	181	3107	5.661	10	✓				xx	xx	xx					
15	182	3119	6.037	5	✓											
16	183	3200	6.322	0	✓	✓	✓		xx							
17																
18																
19	168	1126	2.779													
20	183	3191	6.330													
21																
22																
23																
24																

Watchkeeper(s): PL+NN

Bottom Depth: 342 m

Transmisso Cleaned: 0 / N

Time	UTC	Local
Start	06:41	22:41
Bottom	06:47	22:47
End	07:07	23:07

Positional Information

Start Lat: 49 ° 19.068 N
Lon: 123 ° 47.936 W

Bottom Lat: 49 ° 19.100 N
Lon: 123 ° 47.854 W

End Lat: 49 ° 19.076 N
Lon: 123 ° 47.420 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: ____|____|____

Analyst: Wle

* 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: 2009-64

Station: 2

Event #: 52

Ship: Vector

UTC Date (dd|mmm|yyyy): 3 | 12 | 2009

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	H P	LC		
1	184	2007	2.765	B-5	✓ 272									
2	185	2015	2.723	250	✓ 249			X						
3	186A	2032	3.021	200	✓ 199	X								
4	187	2035	2.996	175	✓ 174									
5	188	1497	3.293	150	✓ 149	X								
6	189	2064	3.684	125	✓ 125									
7	190	2099	3.759	100	✓ 100		X							
8	191	3034	3.665	75	✓ 75									
9	192	3038	4.152	50	✓ 50									
10	193	3040	5.167	40	✓ 40									Spigot drip
11	194	3052	5.424	30	✓ 29									
12	195	1492	5.726	20	✓ 19				XX					
13	196	3124	6.119	10	✓ 10				XX		XX			
14	197	3057	6.400	5	✓ 5						XX			
15	198	3098	6.866	0					XX					
16														
31*	186B	3109	2.998	200										I luv U!
51*	188B	2055	3.292	150										
19														
20														
21														
22														
23														
24														

Watchkeeper(s): (DT)²

Bottom Depth: 276 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1052	0252
Bottom	1059	0259
End	1115	0315

Positional Information

Start Lat: 49 ° 24 114 N
Lon: 124 ° 09 317 W

Bottom Lat: 49 ° 24 317 N
Lon: 124 ° 09 313 W

End Lat: 49 ° 24 350 N
Lon: 124 ° 09 343 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: ____ | ____ | ____

Analyst: mel

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

bottle 10 drips from spigot orings - will replace - check all casts on bottle 10 data

Water Properties Group

Rosette Log

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

Cruise ID: 2009-64

Station: 3

Event #: 55

Ship: Vector

UTC Date (dd|mmm|yyyy): 3 | 12 | 2009

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	199	1298	2.717	B-5	✓ 318							2LE - picker DT - sampler			
2	200	1316	2.730	300	✓ 299			X							
3	201A	1393	2.803	250	✓ 250	X	X								
4	202A	2019	3.092	200	✓ 199	X									
5	203	1392	3.609	175	✓ 175										
6	204	1377	3.614	150	✓ 149										
7	205A	1300	3.697	125	✓ 124	X									
8	206	1314	3.425	100	✓ 100										
9	207	3160	3.476	75	✓ 75										
10	208	1491	4.883	50	✓ 50										
11	209	1313	5.450	40	✓ 40										
12	210	690	6.246	30	✓ 30										
13	211	1395	6.368	20	✓ 20				XX						
14	212	1488	6.351	10	✓ 9				XX	XX					
15	213	1180	6.343	5	✓ 5				XX						
16	214	1213	6.409	0	✓ 1.3				XX						
17															
18	201B	1248	2.806	250											
19	202B	1389	3.083	200											
20	205B	1318	3.437	125											
21															
22															
23															
24															

Watchkeeper(s): (DT)²

Bottom Depth: 325 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1329	0529
Bottom	1336	0536
End	1357	0557

Positional Information

Start
Lat: 49 ° 26 609 N
Lon: 124 ° 20 196 W

Bottom
Lat: 49 ° 26 664 N
Lon: 124 ° 20 207 W

End
Lat: 49 ° 26 820 N
Lon: 124 ° 20 383 W

Oxygen Info For This Cast

Blank Value: 0.000 mL · L⁻¹

Std Value: 0.718 mL · L⁻¹

*Date Run: 02 DEC 2009

Analyst: N²

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

Water Properties Group

Rosette Log

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

Cruise ID: 2009-64 Station: 6 Event #: 56 Ship: Vector UTC Date (dd|mmm|yyyy): 3 | 12 | 2009

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	215	1306	2.989	B-5	☒ 189									wrong depth
2	216	1459	2.973	250	☒ 189			X						
3	217	1317	2.986	200	☒ 189	X								
4	218	3116	3.033	175	☒ 176									
5	219	1477	3.075	150	☒ 150									
6	220	3061	3.282	125	☒ 125	X								
7	221	3182	3.304	100	☒ 99									
8	222	1498	3.271	75	☒ 74	X								
9	223	668	5.387	50	☒ 50									
10	224	1485	5.837	40	☒ 40									
11	225	1489	6.147	30	☒ 30									
12	226	3178	6.306	20	☒ 20				XX					
13	227	2056	6.441	10	☒ 10		X		XX	XX				
14	228	1483	6.495	5	☒ 5									
15	229	3187	6.505	0	☒ 1.4				XX					
16														
17														
18														
34	217	1134	2.975	200										
620	220	3207	3.280	125										
821	222	3028	3.264	75										
22														
23														
24														

Watchkeeper(s): (DT)²

Bottom Depth: 195 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1523	0723
Bottom	1529	0729
End	1546	0746

Positional Information		
Start	Lat: <u>49</u> ° <u>30</u> <u>626</u> N	
	Lon: <u>124</u> ° <u>27</u> <u>768</u> W	
Bottom	Lat: <u>49</u> ° <u>30</u> <u>667</u> N	
	Lon: <u>124</u> ° <u>27</u> <u>762</u> W	
End	Lat: <u>49</u> ° <u>30</u> <u>706</u> N	
	Lon: <u>124</u> ° <u>27</u> <u>702</u> W	

Oxygen Info For This Cast

Blank Value: 0.000 mL · L⁻¹

Std Value: 0.718 mL · L⁻¹

*Date Run: 02 | DEC | 2009

Analyst: N2

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

Water Properties Group

Rosette Log

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

Cruise ID: 2009-64 Station: 9 Event #: 60 Ship: VECTOR UTC Date (dd|mmm|yyyy): 3 | DEC | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	APLC			
1	230	2065	2.850	B-5	✓ 164									
2	231	2088	2.843	150	✓ 151			X						
3	232	2000	2.622	125	✓ 125	X								
4	233	3177	2.817	100	✓ 100									
5	234	3184	3.175	75	✓ 75									
6	235	3133	5.286	50	✓ 50		X							
7	236	3188	6.090	40	✓ 40									
8	237	2089	6.273	30	✓ 30	X								
9	238	1490	6.392	20	✓ 20				XX					
10	239	2068	6.452	10	✓ 10				XX	XX				
11	240	2082	6.537	5	✓ 5									
12	241	708	6.544	0	✓ 1.7				XX					
13														
14														
3	232	2061	2.596	125										
8	237	471	6.286	30										
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): RE MH

Bottom Depth: 168 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	18 07	10 07
Bottom	18 12	10 12
End	18 24	10 24

Positional Information

Start
Lat: 49 ° 35.502 N
Lon: 124 ° 38.226 W

Bottom
Lat: 49 ° 35.498 N
Lon: 124 ° 38.240 W

End
Lat: 49 ° 35.527 N
Lon: 124 ° 38.210 W

Oxygen Info For This Cast

Blank Value: 0.000 mL · L⁻¹

Std Value: 0.718 mL · L⁻¹

*Date Run: 2 DEC 2009

Analyst: NZ

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

Water Properties Group

Rosette Log

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

Cruise ID: 2009-64 Station: 12 Event #: 63 Ship: VECTOR UTC Date (dd|mmm|yyyy): 03 | DEC | 2009

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	HAC					
1	242	1478	2.862	D-5	✓	350											
2	243	745	2.861	350	✓	350			x								
3	244	1126	2.909	300	✓	303											
4	245	1481	2.883	250	✓	251	x										
5	246	1335	2.940	200	✓	200		x									
6	247	1413	2.810	175	✓	176											
7	248	1464	2.976	150	✓	151											
8	249	3100	2.821	125	✓	126											
9	250	1128	2.838	100	✓	100											
10	251	2060	2.891	75	✓	75											
11	252	1421	5.099	50	✓	50											
12	253	3104	5.631	40	✓	40											
13	254	3204	5.742	30	✓	30	x										
14	255	3107	5.837	20	✓	20					xx						- driver error CRASH
15	256	3200	6.280	10	✓	10					xx	xx					- dosimat not reset, recal.
16	257	3191	6.489	5	✓	5											
17	258	3174	6.449	SFC		1.2					xx						
18																	
19																	
20																	
4	245	1476	2.893	250													
13	254	3119	5.743	30													
23																	
24																	

Watchkeeper(s): ROM

Bottom Depth: 355 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	20:13	12:13
Bottom	20:23	12:23
End	20:43	12:43

Positional Information

Start Lat: 49 ° 43.552 N
Lon: 124 ° 40.798 W

Bottom Lat: 49 ° 46.601 N
Lon: 124 ° 40.742 W

End Lat: 49 ° 43.583 N
Lon: 124 ° 40.514 W

Oxygen Info For This Cast

Blank Value: 0.000 mL ✓

Std Value: 0.718 mL ✓

*Date Run: 2 DEC 2009

Analyst: N²

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

Water Properties Group

Rosette Log

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

Cruise ID: 2009-64

Station: 14

Event #: 65

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 03 | DEC | 2009

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 ₂	NO ₃	PATD			
1	259	2015	2.939	B-5	✓ 313											
2	260	2007	2.875	300	✓ 300			X								
3	261	3109	2.871	250	✓ 250	X										
4	262	2035	2.884	200	✓ 200		X									
5	263	2099	2.866	175	✓ 175											
6	264	2064	2.862	150	✓ 150											
7	265	2055	2.840	125	✓ 125											
8	266	1497	2.800	100	✓ 100											
9	267	3040	3.082	75	✓ 75											
10	268	3038	3.979	50	✓ 50											
11	269	3034	4.139	40	✓ 40											
12	270	3052	4.279	30	✓ 30	X										
13	271	1492	4.482	20	✓ 20				XX							
14	272	3057	4.834	10	✓ 10				XX	XX	XXX					
15	273	3124	5.457	5	✓ 5											
16	274	2051	5.765	SFC	✓ 1.5				XX							
17																
18																
3 12	261	2032	2.889	250												
20	270	3098	4.295	30												
21																
22																
23																
24																

Watchkeeper(s): RTH

Bottom Depth: 317 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	22:56	14:56
Bottom	23:02	15:02
End	23:21	15:21

Positional Information

Start Lat: 49 ° 53.015 N

Lon: 124 ° 59.555 W

Bottom Lat: 49 ° 53.030 N

Lon: 124 ° 59.590 W

End Lat: 49 ° 52.957 N

Lon: 124 ° 59.611 W

Oxygen Info For This Cast

Blank Value: 0.000 mL · L⁻¹

Std Value: 0.718 mL · L⁻¹

*Date Run: 2 | DEC | 2009

Analyst: N²

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

Water Properties Group

Rosette Log

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

Cruise ID: 2009-64 Station: 16 Event #: 68 Ship: Vector UTC Date (dd|mmm|yyyy): 04 | 12 | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	APLC			
1	275	1298	2.889	Bot-5	☒ 119	X								Note: 8142
2	276	1393	2.887	125	☒ 119			X						Same depth
3	277	1248	2.887	100	☒									
4	278	2019	2.880	75	☒									
5	279	1389	3.263	50	☒									
6	280	1392	3.597	40	☒									
7	281	1377	3.788	30	☒									- leaky spigot
8	282	1300	3.957	20	☒				xx					
9	283	1318	4.201	10	☒		X		xx	xx				
10	284	1314	4.784	5	☒	X								- back of spigot leaks
11	285	1491	5.226	0	☒	☒	☒		xx					bottom-end cap loose
12														
13	275	1316	2.885	119										
14	284	3160	4.786	5										
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): RL + NN

Bottom Depth: 119 m

Transmisso Cleaned: (2) 1 N

Time	UTC	Local
Start	02:37	18:37
Bottom	02:40	18:40
End	02:50	18:50

Positional Information

Start
 Lat: 49° 57.440 N
 Lon: 125° 9.062 W

Bottom
 Lat: 49° 57.505 N
 Lon: 125° 9.178 W

End
 Lat: 49° 57.496 N
 Lon: 125° 9.540 W

Oxygen Info For This Cast

Blank Value: 0.000 mL · L⁻¹
 Std Value: 0.718 mL · L⁻¹
 *Date Run: 2 DEC 2009
 Analyst: N2

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