

Water Properties Group

Rosette Log

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

Cruise ID: 2011-24

Station: SC1-R

Event #: 001

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 08 | 04 | 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	T°						
✓ 1	1	3043	5.053	B-5	✓ 74	✓	✓				8.0						
✓ 2	2	3187	5.134	50	✓	✓	✓	✓			7.9						
✓ 3	3	1174	6.297	25	✓	✓	✓				7.9						2082 T° = 7.8
✓ 4	4	3124	6.679	10	✓	✓	✓				7.9						6.289 m/s
✓ 5	5	1313	6.999	5	✓	✓	✓				7.8						
✓ 6	6	657	7.165	0	✓	✓	✓				7.7						
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): U.M.

Bottom Depth: 72 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1448	
Bottom	1457	
End	1459	

Positional Information

Start
 Lat: 49 ° 49.14 N
 Lon: 123 ° 54.94 W

Bottom
 Lat: ° N
 Lon: ° W

End
 Lat: ° N
 Lon: ° W

Oxygen Info For This Cast

Blank Value: 0.0005 mL · L⁻¹

Std Value: 0.5458 mL · L⁻¹

*Date Run: 8 | 4 | 11

Analyst: U.M.

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

1659 / 6619

Water Properties Group

Rosette Log

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

Cruise ID: 2011-24

Station: ScT-1

Event #: 002

Ship: VG-TOR

UTC Date (dd|mmm|yyyy): 8 | 4 | 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	T°					
✓ 1	7	1477	2.480	85	✓ 141	✓	✓				8.3					
✓ 2	8	1470	3.309	125	✓	✓	✓	✓			8.2					
✓ 3	9	557	5.017	100	✓	✓	✓				8.1					1498 T° = 8.1
✓ 4	10	622	5.870	75	✓	✓	✓				8.0					5.162 m/s
✓ 5	11	2055	5.988	50	✓	✓	✓				8.0					
✓ 6	12	2019	6.223	25	✓	✓	✓				8.0					
✓ 7	13	3084	6.400	10	✓	✓	✓				8.1					
✓ 8	14	3180	7.003	5	✓	✓	✓				8.3					
✓ 9	15	1267	7.699	0	✓	✓	✓				8.4					
10	16	BUCKET		0			✓									
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): H.M.

Bottom Depth: 141 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1642	
Bottom	1643	
End		

Positional Information

Start
 Lat: 49 ° 43.11 N
 Lon: 123 ° 52.72 W

Bottom
 Lat: 49 ° 43.07 N
 Lon: 123 ° 52.70 W

End
 Lat: ° N
 Lon: ° W

Oxygen Info For This Cast

Blank Value: 0.0005 mL · L⁻¹
 Std Value: 0.5458 mL · L⁻¹
 *Date Run: 8 | 4 | 11
 Analyst: H.M.

* 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: 2011-24

Station: ScI-2

Event #: 003

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 8 | 4 | 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	T°					
✓ 1	17	3209	5.008	B-5	✓ 64	✓	✓				7.8					
✓ 2	18	3184	4.994	50	✓	✓✓	✓	✓			7.8					1317 T° = 7.8
✓ 3	19	3191	5.740	25	✓	✓	✓				8.1					4.989 mL/L
✓ 4	20	3166	6.097	10	✓	✓	✓				8.2					
✓ 5	21	471	5.799	5	✓	✓	✓✓				8.3					
✓ 6	22	1478	LOST	0	✓	✓	✓				8.3					END POINT LOST?
7	23	BUCKET		0			✓									
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): H.M.

Bottom Depth: 81 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1737	
Bottom	1749	
End		

Positional Information

Start	Lat: <u>49</u> ° <u>41.23</u> N
	Lon: <u>123</u> ° <u>48.29</u> W

Bottom

Lat: <u>49</u> ° <u>41.23</u> N
Lon: <u>123</u> ° <u>48.31</u> W

End

Lat: ° N
Lon: ° W

Oxygen Info For This Cast

Blank Value: <u>0.0005</u> mL · L ⁻¹
Std Value: <u>0.5458</u> mL · L ⁻¹
*Date Run: <u>8</u> <u>4</u> <u>11</u>
Analyst: <u>H.M.</u>

* 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: 2011-24

Station: SCI-2.5

Event #: 006

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 8 | 4 | 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	T°					
✓ 1	24	2064	4.946	B-5	✓ 91	✓	✓	✓			8.2					
✓ 2	25	3040	4.990	50	✓	✓	✓				8.1					
✓ 3	26	1497	4.949	25	✓	✓	✓				8.1					
✓ 4	27	3038	3.848	10	✓	✓	✓				8.7					1401 T° = 8.7
✓ 5	28	3174	5.664	5	✓	✓	✓				8.7					3.857 - 0.1
✓ 6	29	2032	7.885	0	✓	✓	✓				9.3					
7	30	BUCKET		0			✓									
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): H.M.

Bottom Depth: 89 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1910	
Bottom	1913	
End	1919	

Positional Information

Start
 Lat: 49 ° 43.87 N
 Lon: 123 ° 44.33 W

Bottom
 Lat: 49 ° 43.87 N
 Lon: 123 ° 44.32 W

End
 Lat: 49 ° 43.90 N
 Lon: 123 ° 44.27 W

Oxygen Info For This Cast

Blank Value: 0.0005 mL · L⁻¹
 Std Value: 0.5458 mL · L⁻¹
 *Date Run: 8 | 4 | 11
 Analyst: H.M.

* 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: 2011.24 Station: SCI 4.5 Event #: 008 Ship: VECTOR UTC Date (dd|mmm|yyyy): 8 | 4 | 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	T°			
✓ 1	31	3043	0.092	B-5	✓ 236	✓	✓				8.7			
✓ 2	32	3187	0.162	200	✓			✓			8.7			
✓ 3	33	1174	0.488	150	✓						8.8			NO CURVE IN E.P.
✓ 4	34	2082	1.085	125	✓						8.9			
✓ 5	35	3124	1.833	100	✓	✓					9.0			1313 T° = 9.0
✓ 6	36	657	2.449	75	✓						8.9			1.055 ml/l
✓ 7	37	1477	2.777	50	✓						8.9			
✓ 8	38	1470	2.320	25	✓		✓				9.3			
✓ 9	39	557	3.873	10	✓						9.1			
✓ 10	40	1498	7.720	5	✓						9.0			
✓ 11	41	622	9.301	0	✓						9.1			
12	42	BUCKET		0										
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: 238 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2139	
Bottom	2143	
End		

Positional Information

Start Lat: 49 ° 40.03 N
Lon: 123 ° 36.03 W

Bottom Lat: 49 ° 40.05 N
Lon: 123 ° 36.04 W

End Lat: ° N
Lon: ° W

Oxygen Info For This Cast

Blank Value: 0.0005 mL · L⁻¹
Std Value: 0.5458 mL · L⁻¹
*Date Run: 8 | 4 | 11
Analyst: H.M.

* 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: 2011-24 Station: SCI-4 Event #: 010 Ship: VECTOR UTC Date (dd|mmm|yyyy): 8 | 4 | 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	T°			
✓ 1	43	2019	0.164	B-5	✓ 250	✓	✓				8.7			0010. HEX TO 165 opl VACAST
✓ 2	44			150	✓									0011. HEX
✓ 3	45	3094	2.164	125	✓			✓			8.6			
✓ 4	46	3180	4.012	100	✓		✓				8.2			
✓ 5	47	1367	4.550	75	✓						8.0			
✓ 6	48	1316	4.115	50	✓						8.3			
✓ 7	49	663	3.514	25	✓	✓					8.8			715 T° = 8.8
✓ 8	50	1389	4.787	10	✓						8.5			3.512 m/p
✓ 9	51	2051	7.297	5	✓						8.6			
10	52	1312	9.150	0	✓	✓					8.8			
11	53	BUCKET		0	✓		↓							
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: 250 m

Transmisso Cleaned: ☒ / N

Time	UTC	Local
Start	2257	
Bottom	2256	
End	2316	

Positional Information
 Lat: 49° 38.07 N
 Lon: 123° 44.49 W

▼
 Lat: 49° 38.07 N
 Lon: 123° 44.40 W

▼
 Lat: 49° 38.08 N
 Lon: 123° 44.50 W

Oxygen Info For This Cast
 Blank Value: 0.0005 mL · L⁻¹
 Std Value: 0.5458 mL · L⁻¹
 *Date Run: 8-14-11
 Analyst: H.M.

* 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: 2011-24

Station: ScI-3

Event #: 914

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 9 | 4 | 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	T°						
✓ 1	54	3043	0.128	B-5	✓ 275	✓	✓				8.6						
✓ 2	55	3187	0.166	250	✓			✓			8.5						
✓ 3	56	1174	0.198	200	✓	✓					8.5						2082 T° = 8.5
✓ 4	57	3124	0.744	150	✓						8.5						0.138
✓ 5	58	1313	3.286	125	✓						8.2						
✓ 6	59	657	5.011	100	✓						8.0						
✓ 7	60	1477	5.501	75	✓						7.9						
✓ 8	61	1470	5.698	50	✓		✓				8.0						
✓ 9	62	557	5.816	25	✓						8.1						
✓ 10	63	622	5.904	10	✓						8.1						
✓ 11	64	1498	6.453	5	✓						8.2						
✓ 12	65	3084	8.386	0	✓	✓					8.6						
13	66	Bucket		0													
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): A.M.

Bottom Depth: 280 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1509	
Bottom	1516	
End	1534	

Positional Information

Start
Lat: 49 ° 38.77 N
Lon: 123 ° 50.65 W

Bottom
Lat: 49 ° 38.76 N
Lon: 123 ° 50.64 W

End
Lat: 49 ° 38.85 N
Lon: 123 ° 50.66 W

Oxygen Info For This Cast

Blank Value: 0.00043 mL · L⁻¹

Std Value: 0.54559 mL · L⁻¹

*Date Run: 9 | 4 | 11

Analyst: H.M.

* 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: 2011-24 Station: SCI-5 Event #: 015 Ship: VECTOR UTC Date (dd|mmm|yyyy): 9 | 4 | 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	T ^o			
✓ 1	67	3209	0.141	85	✓ 222	✓	✓				8.6			
✓ 2	68	3184	0.143	250	✓ 222						8.6			
✓ 3	69	1317	0.147	200	✓						8.5			
✓ 4	70	3191	0.840	150	✓						8.6			
✓ 5	71	3166	2.697	125	✓						8.4			
✓ 6	72	471	3.829	100	✓						8.1			
✓ 7	73	1478	3.833	75	✓		✓				8.2			
✓ 8	74	2064	4.216	50	✓	✓					8.1			3040 T ^o = 8.1
✓ 9	75	1497	3.575	25	✓			✓			8.6			4208 -1/1
✓ 10	76	3038	4.543	10	✓						8.5			
✓ 11	77	3174	8.082	5	✓						8.7			
✓ 12	78	1401	8.917	0	✓						8.8			
13	79	BUCKET		0										
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: 262 m

Transmisso Cleaned: ☒ / N

Time	UTC	Local
Start	1621	
Bottom	1626	
End	1639	

Positional Information

Start Lat: 49 ° 33.80 N
Lon: 123 ° 47.63 W

Bottom Lat: 49 ° 33.82 N
Lon: 123 ° 47.62 W

End Lat: 49 ° 33.85 N
Lon: 123 ° 47.65 W

Oxygen Info For This Cast

Blank Value: 000043 mL · L⁻¹
Std Value: 0.54559 mL · L⁻¹
*Date Run: 9 | 4 | 11
Analyst: H.M.

* 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: 2011-24 Station: SCI 6 Event #: 017 Ship: VECTOR UTC Date (dd|mmm|yyyy): 9 | 4 | 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	T°			
✓ 1	80	2032	2.541	B-5	✓ 115	✓	✓				8.7			
✓ 2	81	3098	2.973	75	✓	✓	✓	✓			8.7			
✓ 3	82	3052	3.085	50	✓	✓	✓				8.7			
✓ 4	83	3109	3.177	25	✓	✓	✓				9.0			
✓ 5	84	1492	4.251	10	✓	✓	✓				8.7			3057 T° = 8.7
✓ 6	85	3171	7.985	5	✓	✓	✓				8.3			4.256-4
✓ 7	86	2035	8.779	0	✓	✓	✓				9.2			
8	87	BUCKET		0			✓							
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: 114 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1719	
Bottom	1724	
End	1732	

Positional Information

Start
 Lat: 49 ° 31.23 N
 Lon: 123 ° 47.36 W

Bottom
 Lat: 49 ° 31.24 N
 Lon: 123 ° 47.35 W

End
 Lat: 49 ° 31.27 N
 Lon: 123 ° 47.32 W

Oxygen Info For This Cast

Blank Value: 0.00043 mL • L⁻¹
 Std Value: 0.54559 mL • L⁻¹
 *Date Run: 9 | 4 | 11
 Analyst: H.M.

* 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: 2011-24 Station: KA Event #: 026 Ship: VECTOR UTC Date (dd|mmm|yyyy): 9 | 4 | 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	T°			
✓ 1	88	3209	4.255	B-5	✓ 100	✓	✓				8.2			
✓ 2	89	3184	4.282	75	✓	✓	✓	✓			8.1			
✓ 3	90	1317	4.106	50	✓	✓	✓				8.2			
✓ 4	91	3191	3.798	25	✓	✓	✓				8.6			
✓ 5	92	3160	4.185	10	✓	✓	✓				8.6			471 T° = 8.6
✓ 6	93	1478	8.242	5	✓	✓	✓				9.0			4.192 m/s
✓ 7	94	2064	9.045	0		✓	✓				9.2			
8	95	BUCKET		0										
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: 105 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2339	
Bottom	2341	
End	2343	

Positional Information

Start
 Lat: 49 ° 37. 91 N
 Lon: 123 ° 47. 51 W

Bottom
 Lat: 49 ° 37. 91 N
 Lon: 123 ° 47. 52 W

End
 Lat: 49 ° 37. 90 N
 Lon: 123 ° 47. 57 W

Oxygen Info For This Cast

Blank Value: 0.00043 mL • L⁻¹
 Std Value: 0.54559 mL • L⁻¹
 *Date Run: 9 | 4 | 11
 Analyst: H.M.

* 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: 2011-24 Station: K-B Event #: 027 Ship: VECTOR UTC Date (dd|mmm|yyyy): 10 | 4 | 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	T°					
✓ 1	96	3040	1.787	B-5	✓ 131	✓	✓				9.3					temp corrected from 9.3 to 9.2
✓ 2	97	1497	4.258	75	✓	✓		✓			9.1					new thermometer
✓ 3	98	3174	4.125	50	✓						8.9					3038 T° = 8.9
✓ 4	99	1401	3.556	25	✓						9.3					BAD TITRATION?
✓ 5	100	2632	4.184	10	✓						9.3					BAD NUMBERS?
✓ 6	101	3098	7.561	5	✓		✓				9.5					
✓ 7	102	3052	8.909	0	✓	✓					9.7					
8	103	BUCKET		0												
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): H.M.

Bottom Depth: 117 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0045	
Bottom	0048	
End	0056	

Positional Information

Start Lat: 49 ° 38.22 N
Lon: 123 ° 46.42 W

Bottom Lat: 49 ° 38.22 N
Lon: 123 ° 46.42 W

End Lat: 49 ° 38.22 N
Lon: 123 ° 46.43 W

Oxygen Info For This Cast

Blank Value: 0.0043 mL · L⁻¹

Std Value: 0.54559 mL · L⁻¹

*Date Run: 9.14.11

Analyst: H.M.

* 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: 2011-24 Station: C-A Event #: 031 Ship: VECTOR UTC Date (dd|mmm|yyyy): 10 | 4 | 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	T°							
✓ 1	104	1337	4.035	B-5	✓ 144	✓	✓				8.5							
✓ 2	105	3108	4.853	75	✓	✓					8.0							468 T° = 8.0
✓ 3	106	631	4.906	50	✓			✓			7.9							4.851 ml/l
✓ 4	107	1261	6.080	25	✓						7.5							
✓ 5	108	1248	7.136	10	✓		✓				7.9							
✓ 6	109	3028	7.733	5	✓						8.2							
✓ 7	110	1373	8.007	0	✓						8.3							
8	111	BUCKET		0														
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Watchkeeper(s): H.M.

Bottom Depth: 96 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1742	
Bottom	1746	
End	1753	

Positional Information

Start
Lat: 49 ° 47.74 N
Lon: 124 ° 05.30 W

Bottom
Lat: 49 ° 47.73 N
Lon: 124 ° 05.31 W

End
Lat: 49 ° 47.72 N
Lon: 124 ° 05.31 W

Oxygen Info For This Cast

Blank Value: 0.000616 mL · L⁻¹

Std Value: 0.34586 mL · L⁻¹

*Date Run: 11 | 4 | 11

Analyst: H.M.

* 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: 2011-24 Station: C-B Event #: 032 Ship: VECTOR UTC Date (dd|mmm|yyyy): 10 | 4 | 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	T°					
✓ 1	112	1404	4.582	8.5	✓ 120	✓	✓				8.2					
✓ 2	113	3126	4.643	75	✓	✓	✓				8.2					
✓ 3	114	1319	4.828	50	✓	✓	✓				8.0					
✓ 4	115	1378	6.121	25	✓	✓	✓				7.6					647 T°=7.6
✓ 5	116	1402	7.677	10	✓ ??	✓	✓				8.0					AIR BUBBLE in SAMPLE 6.120 mD
✓ 6	117	1475	8.061	5	✓	✓	✓				8.4					CHAIN TOO SHORT
✓ 7	118	621	8.143	0	✓	✓	✓				8.5					
8	119	BURKET		0			✓									
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): H.M.Bottom Depth: 110 mTransmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2052	
Bottom	2056	
End	2103	

Positional Information

Start	Lat: <u>49</u> ° <u>47.56</u> N
	Lon: <u>124</u> ° <u>06.34</u> W
▼	
Bottom	Lat: <u>49</u> ° <u>47.56</u> N
	Lon: <u>124</u> ° <u>06.35</u> W
▼	
End	Lat: <u>49</u> ° <u>47.55</u> N
	Lon: <u>124</u> ° <u>06.35</u> W

Oxygen Info For This Cast

Blank Value:	<u>0.000616</u> mL · L ⁻¹
Std Value:	<u>0.54596</u> mL · L ⁻¹
*Date Run:	<u>11</u> <u>4</u> <u>11</u>
Analyst:	<u>H.M.</u>

* 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: 2011-24

Station: BS 2

Event #: 035

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 11 | 4 | 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	T ^o					
✓ 1	120	3043	5.668	B-2	✓ 36	✓	✓				7.8					
✓ 2	121	3187	5.673	B-4	✓ 34			✓			7.7					BAD CURVE
* ✓ 3	122	2082	5.713	B-6	✓ 32						7.7					* OVERTITRATED - 1ml
✓ 4	123	1174	6.810	20	✓	✓					7.9					3124 T ^o = 7.8
✓ 5	124	1313	8.171	10	✓		✓				7.9					7.423 w/a
✓ 6	125	657	8.351	5							7.9					
✓ 7	126	1477	8.296	0							8.0					OVERTITRATE
8	127	BUCKET		0												(STILL HAD BAD CURVE)
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): H.M.

Bottom Depth: 36 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1434	
Bottom	1436	
End	1442	

Positional Information

Start Lat: 49 ° 38.41 N
Lon: 124 ° 53.65 W

Bottom Lat: ° N
Lon: ° W

End Lat: 49 ° 38.40 N
Lon: 124 ° 53.66 W

Oxygen Info For This Cast

Blank Value: 0.000616 mL · L⁻¹
Std Value: 0.54586 mL · L⁻¹
*Date Run: 11 | 4 | 11
Analyst: H.M.

* 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: 2011-24 Station: BS 5 Event #: 042 Ship: VECTOR UTC Date (dd|mmm|yyyy): 11 | 4 | 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	T°					
✓ 1	129	1470	5.852	44	✓	B-2	✓	✓				7.9					
✓ 2	129	557	6.152	42	✓	B-4	✓	✓				7.8					
✓ 3	130	622	6.154		✓	B-6	✓	✓	✓			7.8					
✓ 4	131	1498	7.068	25	✓		✓	✓				7.9					
✓ 5	132	3084	7.331	10	✓		✓	✓				7.8					2055 T° = 7.9
✓ 6	133	2019	7.509	5	✓		✓	✓				7.8					7.334 - 1/2
✓ 7	134	3180	7.643	0	✓		✓	✓				7.9					
8	135	BUCKET		6	✓		✓	✓									
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): H.M.

Bottom Depth: 42 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1639	
Bottom	1640	
End	1648	

Positional Information

Start Lat: 49 ° 35.84 N
Lon: 124 ° 51.59 W

Bottom Lat: 49 ° 35.84 N
Lon: 124 ° 51.59 W

End Lat: 49 ° 35.85 N
Lon: 124 ° 51.59 W

Oxygen Info For This Cast

Blank Value: 0.000616 mL · L⁻¹
Std Value: 0.54596 mL · L⁻¹
*Date Run: 11 | 4 | 11
Analyst: H.M.

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

Water Properties Group

Rosette Log

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

Cruise ID: 2010-24 Station: BS B Event #: 049 Ship: VECTOR UTC Date (dd|mmm|yyyy): 11 | 4 | 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	T°			
✓ 1	136	1367	5.996	48	✓	B-2	✓	✓				7.8			
✓ 2	137	1316	5.784	46	✓	B-4	✓	✓	✓			7.8			
✓ 3	138	668	5.748	44	✓	B-6	✓	✓				7.7			
✓ 4	139	715	7.007	25	✓		✓	✓				7.9			1389 T° = 7.9
✓ 5	140	2051	7.514	10	✓		✓	✓				7.9			7.007 m/s
✓ 6	141	1312	7.690	5	✓		✓	✓				7.8			
✓ 7	142	2086	7.783	0	✓		✓	✓				7.9			
8	143	BUCKET		0	-			✓							
9															
10															
11															
12															
13															
14		EDIT MISTAKE		TITRATION		#6									
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s): H.M.

Bottom Depth: _____ m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1903	
Bottom	1906	
End	1912	

Positional Information

Start
 Lat: 49 ° 39 14 N
 Lon: 124 ° 51 59 W

Bottom
 Lat: 49 ° 34 14 N
 Lon: 124 ° 51 59 W

End
 Lat: 49 ° 34 13 N
 Lon: 124 ° 51 57 W

Oxygen Info For This Cast

Blank Value: 0.000616 mL · L⁻¹
 Std Value: 0.54586 mL · L⁻¹
 *Date Run: 11 | 4 | 11
 Analyst: H.M.

* 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: 2011-24 Station: BS 11 Event #: 056 Ship: VECTOR UTC Date (dd|mmm|yyyy): 12 | 4 | 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	T°					
✓ 1	144	3043	6.039	50	✓ B-2	✓	✓				7.9			*		BAD CURVE - OVERTITRATE
✓ 2	145	3187	5.689	43	✓ B-4	✓					7.8					2082 T° = 7.8
✓ 3	146	1174	5.756	46	✓ B-6						7.8					5.693 - 1/1
✓ 4	147	3124	7.023	25	✓		✓				7.9					
✓ 5	148	657	7.716	10	✓			✓			7.9					
✓ 6	149	1313	8.516	5	✓						8.2					
✓ 7	150	1477	8.573	0	✓						8.3					
8	151	BUCKET		0	-											
9																
10																
11																
12																
13																
14																
15																
16																
17																
18					* BAD PLOT on #	144										
19						# 145	DUP									
20						# 148										
21						# 149										
22																
23																
24																

Watchkeeper(s): H.M.

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0059	
Bottom	0101	
End	0108	

Positional Information

Start Lat: 49 ° 32.54 N
Lon: 124 ° 50.56 W

Bottom Lat: 49 ° 32.53 N
Lon: 124 ° 50.57 W

End Lat: 49 ° 32.52 N
Lon: 124 ° 50.60 W

Oxygen Info For This Cast

Blank Value: 0.000616 mL · L⁻¹
Std Value: 0.54586 mL · L⁻¹
*Date Run: 11 | 4 | 11
Analyst: H.M.

* 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: 2011-24 Station: GS 14 Event #: 063 Ship: VECTOR UTC Date (dd|mmm|yyyy): 12 | 4 | 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	PO ₄	NO ₃	NO ₂	
✓ 1	152	3043	—	47	✓ B-2	✓	✓	✓			7.9			To much SEDIMENT. WOULDN'T TITRATE
✓ 2	153	3187	5.607	45	✓ B-4	✓					7.7			2.082 T°=7.7
✓ 3	154	1174	5.760	43	✓ B-6						7.7			5.609-1/1
✓ 4	155	3124	6.901	25	✓		✓				7.7			
✓ 5	156	657	7.546	10	✓						7.7			
✓ 6	157	1313	8.346	5	✓						7.8			
✓ 7	158	1477	8.349	0	✓						7.8			
8	159	BUCKET		0	—									
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: 44 m

Transmisso Cleaned: ☒ Y / N

Time	UTC	Local
Start	1452	
Bottom	1455	
End	1502	

Positional Information

Start Lat: 49 ° 31.05 N
Lon: 124 ° 48 74 W

Bottom Lat: 49 ° 31.05 N
Lon: 124 ° 48.74 W

End Lat: 49 ° 31.06 N
Lon: 124 ° 48.75 W

Oxygen Info For This Cast

Blank Value: 0.000616 mL • L⁻¹

Std Value: 0.54586 mL • L⁻¹

*Date Run: 11 | 4 | 11

Analyst: H.M.

* 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: 2011-24 Station: BS 17 Event #: 070 Ship: VECTOR UTC Date (dd|mmm|yyyy): 12 | 4 | 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	T*			
✓ 1	160	1470	5.611	54	✓ B-2	✓	✓				8.0			
✓ 2	161	557	5.644	52	✓ B-4	✓	✓				7.9			
✓ 3	162	622	5.674	50	✓ B-6	✓	✓	✓			7.9			
✓ 4	163	1498	6.543	25	✓	✓	✓				7.9			
✓ 5	164	3084	7.447	10	✓	✓	✓				7.9			2055 T° = 7.8
✓ 6	165	2019	7.994	5	✓	✓	✓				7.8			7.462 - 1/1
✓ 7	166	3180	8.020	0	✓	✓	✓				7.7			
8	167	Bucket		0	✓	✓	✓							
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: 51 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1631	
Bottom	1633	
End	1640	

Positional Information

Start
 Lat: 49 ° 29.03 N
 Lon: 124 ° 46.19 W

Bottom
 Lat: 49 ° 29.03 N
 Lon: 124 ° 46.18 W

End
 Lat: 49 ° 29.04 N
 Lon: 124 ° 46.16 W

Oxygen Info For This Cast

Blank Value: 0.000616 mL · L⁻¹
 Std Value: 0.54536 mL · L⁻¹
 *Date Run: 12 | 4 | 11
 Analyst: H.M.

* 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: Z011-24 Station: BS 20 Event #: 077 Ship: VECTOR UTC Date (dd|mmm|yyyy): 12 | 4 | 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	T°						
✓ 1	168	1367	5.338	45	✓	B-2	✓	✓				8.1						
✓ 2	169	1316	5.581	38	✓	B-4	✓	✓				8.0						RISING BOTTOM
✓ 3	170	668	5.848	36	✓	B-6	✓	✓				8.0						
✓ 4	171	715	6.583	25	✓		✓	✓				7.9						
✓ 5	172	1389	7.626	10	✓		✓	✓				7.9						
✓ 6	173	2051	7.889	5	✓		✓	✓				7.8						1312 T°=7.8
✓ 7	174	2086	7.880	0	✓		✓	✓				7.8						7.888 m/l
8	175	BUCKET		0	-			✓										
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Watchkeeper(s): H.M.

Bottom Depth: 39 m

Transmisso Cleaned: (Y) / N

	UTC	Local
Start	1815	
Bottom	1818	
End	1924	

Positional Information

Start Lat: 49 ° 28.34 N
Lon: 124 ° 44.84 W

Bottom Lat: 49 ° 28.34 N
Lon: 124 ° 44.82 W

End Lat: 49 ° 28.34 N
Lon: 124 ° 44.86 W

Oxygen Info For This Cast

Blank Value: 0.008616 mL · L⁻¹
Std Value: 0.5458 mL · L⁻¹
*Date Run: 11 | 4 | 11
Analyst: H.M.

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

Water Properties Group

Rosette Log

CRASHED @ 30m ON UPCAST
Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2011-24 Station: BS 23 Event #: 084/085 Ship: VECTOR UTC Date (dd|mmm|yyyy): 12 | 4 | 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	T°			
✓ 1	183	1421	5.224	56	✓ B-2	✓	✓				8.0			
✓ 2	184	1488	5.319	54	✓ B-4	✓	✓				7.9			708 T° = 7.9
✓ 3	185	1322	5.375	52	✓ B-6	✓	✓				7.9			5.307-1/1
✓ 4	186	3181	5.493		✓ 25	✓	✓	✓			7.7			
✓ 5	187	3203	5.965		✓ 10	✓	✓				7.7			
✓ 6	188	1481	7.618		✓ 5	✓	✓				7.8			
✓ 7	189	2084	7.714		✓ 0	✓	✓				7.9			
8	190	BUCKET			0		✓							
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: 56 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2031	
Bottom	2034	
End	2045	

Positional Information

Start Lat: 49 ° 27. 72 N
Lon: 124 ° 39. 96 W

Bottom Lat: 49 ° 27. 73 N
Lon: 124 ° 39. 96 W

End Lat: 49 ° 27. 73 N
Lon: 124 ° 39. 96 W

Oxygen Info For This Cast

Blank Value: 0.000616 mL · L⁻¹
Std Value: 0.54586 mL · L⁻¹
*Date Run: 11 | 4 | 11
Analyst: H.M.

* 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: 2011-24 Station: BS 24 Event #: 088 Ship: VECTOR UTC Date (dd|mmm|yyyy): 11 | 4 | 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	T°					
✓ 1	191	1400	5.031	53	✓ B-2	✓	✓				8.2					
✓ 2	192	3007	5.097	51	✓ B-4	✓	✓				8.1					
✓ 3	193	2033	5.143	49	✓ B-6	✓	✓				8.1					
✓ 4	194	1311	6.231	25	✓	✓		✓			8.1					3055 T° = 8.0
✓ 5	195	2065	7.590	10	✓	✓	✓				8.0					6.233 n/p
✓ 6	196	2069	7.687	5	✓	✓	✓				8.0					
✓ 7	197	690	7.675	0	✓	✓	✓				8.0					
8	198	BUCKET		0	-		✓									
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): H.M.

Bottom Depth: 51 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2222	
Bottom	2225	
End	2231	

Positional Information

Start
 Lat: 49 ° 39.80 N
 Lon: 124 ° 51.14 W

Bottom
 Lat: 49 ° 39.80 N
 Lon: 124 ° 51.15 W

End
 Lat: 49 ° 39.80 N
 Lon: 124 ° 51.14 W

Oxygen Info For This Cast

Blank Value: 0.000616 mL · L⁻¹
 Std Value: 0.54536 mL · L⁻¹
 *Date Run: 11 | 4 | 11
 Analyst: H.M.

* 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: 2011-24 Station: BS 25 Event #: 090 Ship: VECTOR UTC Date (dd|mmm|yyyy): 12 | 4 | 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	T°						
✓ 1	199	1490	4.938	56	✓ B-2	✓	✓	✓			8.3						
✓ 2	200	1489	5.457	53	✓ B-4	✓	✓				8.1						
✓ 3	201	1464	5.522	51	✓ B-6	✓	✓				8.1						
✓ 4	202	1387	6.347	25	✓	✓	✓				8.1						
✓ 5	203	1365	7.751	10	✓	✓	✓				8.1						633 T°=8.1
✓ 6	204	3207	8.267	5	✓	✓	✓				8.1						7.754 m/l/l
✓ 7	205	3137	8.254	0	✓	✓	✓				8.1						
8	206	BUCKET		0	-		✓										
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): H.M.

Bottom Depth: 53 m

Transmisso Cleaned: ☒ Y / ☐ N

	Time	UTC	Local
Start		2301	
Bottom		2304	
End		2311	

Positional Information

Start

Lat: 49 ° 38.95 N

Lon: 124 ° 50.68 W

Bottom

Lat: 49 ° 38.93 N

Lon: 124 ° 50.66 W

End

Lat: 49 ° 38.93 N

Lon: 124 ° 50.70 W

Oxygen Info For This Cast

Blank Value: 0.000616 mL · L⁻¹

Std Value: 0.54536 mL · L⁻¹

*Date Run: 11 | 4 | 11

Analyst: H.M.

* 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: 2011-24 Station: BS 26 Event #: 092 Ship: VECTOR UTC Date (dd|mmm|yyyy): | 4 | 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	T ₀			
✓ 1	207	1213	5.376	50	✓ B-2	✓	✓				8.2			
✓ 2	208	3193	5.389	48	✓ B-4	✓					8.2			3200 T = 8.2
✓ 3	209	1473	5.405	45	✓ B-67		✓				8.1			5.398 mL/l
✓ 4	210	1106	5.584	25	✓			✓			8.1			
✓ 5	211	2063	5.846	10	✓						8.1			
✓ 6	212	2092	6.054	5	✓						8.0			
✓ 7	213	3075	6.122	0	✓						8.0			
8	214	BUCKET		0										
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): H.M.

Bottom Depth: 49 m

Transmisso Cleaned: ☒ / N

Time	UTC	Local
Start	2337	
Bottom	2340	
End	2346	

Positional Information

Start Lat: 49 ° 38.08 N
Lon: 124 ° 49.82 W

Bottom Lat: 49 ° 38.08 N
Lon: 124 ° 49.84 W

End Lat: 49 ° 38.08 N
Lon: 124 ° 49.82 W

Oxygen Info For This Cast

Blank Value: 0.000616 mL · L⁻¹
Std Value: 0.54586 mL · L⁻¹
*Date Run: 11 | 4 | 11
Analyst: H.M.

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