

Water Properties Group

Rosette Log

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

Cruise ID: 2008-41Station: SIEvent #: 1Ship: VectorUTC Date (dd|mmm|yyyy): 17 | 06 | 2008

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NP4	HPLC			
1	1	1436	2.515	100	☒									
2	2	1338	3.612	75	☒									
3	3	1340	4.661	50	☒									O ₂ added sh. over 2000
4	4	1341	5.284	40	☒									
5	5	1344	5.473	30	☒									
6	6	1347	5.956	20	☒									
7	7	1351	7.432	10	☒									
8	8	1354	7.888	5	☒									
9	9	1356	7.896	200	☒									
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): anyoneBottom Depth: 100 mTransmisso Cleaned: ☒ N

Time	UTC	Local
Start	0017	
Bottom	0020	
End	0030	

Positional Information

Start
Lat: 48 ° 39.360 N
Lon: 123 ° 30.006 WBottom
Lat: 48 ° 39.322 N
Lon: 123 ° 29.994 WEnd
Lat: 48 ° 39.240 N
Lon: 123 ° 29.370 W

Oxygen Info For This Cast

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

*Date Run: ____|____|____

Analyst: _____

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

Water Properties Group

Rosette Log

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

Cruise ID: 2008-41

Station: 58

Event #: 3

Ship: Koror

UTC Date (dd|mmm|yyyy): 17 | 06 | 2008

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	10	1358	3.235	600	✓	232										small air bubble
2	11	1360	3.309	200	✓			✓								
3	12	1361	3.420	175	✓											
4	13	1362	3.782	150	✓											
5	14	1363	3.975	125	✓											
6	15	1364	4.002	100	✓											
7	16	1366	4.227	75	✓											
8	17	1367	4.493	50	✓											
9	18	1368	4.539	40	✓											
10	19	1365	4.602	30	✓											2x bubble on sensor & endpoint
11	20	1374	4.288	20	✓				uv	uv						
12	21	1375	5.110	10	✓				uv	uv						
13	22	1376	5.084	5	✓				uv	uv						
14	23	1327	5.072	500	✓		✓		uv	uv						
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): 20/28

Bottom Depth: 232 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	313	
Bottom	319	
End	330	

Positional Information

Start

Lat: 48 ° 37.818 N

Lon: 123 ° 14.573 W

Bottom

Lat: 48 ° 37.896 N

Lon: 123 ° 14.578 W

End

Lat: 48 ° 37.925 N

Lon: 123 ° 12.829 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: 2008-4

Station: 56

Event #: 6

Ship: Vecton

UTC Date (dd|mmm|yyyy): 18 | 06 | 2008

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	632	3.396	300	☒	213										mis-labeled as 402
2	25	76	3.410	200	☒			V								
3	26	329	3.567	175	☒											
4	27	425	3.665	150	☒											
5	28	371	3.714	125	☒											
6	29	434	3.837	100	☒											
7	30	456	4.083	75	☒											cons with bottle # and depth
8	31	462	4.413	50	☒											
9	32	547	4.868	40	☒											
10	33	471	5.241	30	☒											
11	34	557	5.386	20	☒				uv	uv						
12	35	2040	5.810	10	☒				uv	uv						
13	36	559	5.946	5	☒											
14	37	575	6.522	surf	☒				uv	uv						
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): D/O

Bottom Depth: 213 m

Transmisso Cleaned: ☒ N

Time	UTC	Local
Start	1155	
Bottom	1202	
End	1218	

Positional Information

Start Lat: 48 ° 46 373 N
Lon: 123 ° 1.614 W

Bottom Lat: 48 ° 46 380 N
Lon: 123 ° 1.566 W

End Lat: 48 ° 46 380 N
Lon: 123 ° 1.588 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: 2008-41 Station: 46 Event #: 12 Ship: VECTOR UTC Date (dd|mmm|yyyy): 17 | 06 | 2008

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	38	638	4.133	807	✓ 170									
2	39	647	4.291	150	✓			✓						
3	40	639	4.351	125	✓		✓							
4	41	657	4.242	100	✓									
5	42	700	4.354	75	✓									
6	43	712	4.124	50	✓									
7	44	1174	4.136	40	✓									
8	45	1105	4.774	30	✓									
9	46	1110	4.799	20	✓				✓	✓				
10	47	1150	5.430	10	✓				✓	✓				
11	48	1223	5.804	5	✓									
12	49	1305	6.442	surf	✓	✓	✓		✓	✓				
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): MD/R

Bottom Depth: 179 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2206	
Bottom	2210	
End	2223	1525

Positional Information

Start Lat: 48° 51' 43.8" N
Lon: 123° 10' 8.8" W

Bottom Lat: 48° 51' 43.8" N
Lon: 123° 10' 8.32" W

End Lat: 48° 51' 6.97" N
Lon: 113° 11' 0.29" 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: 2008-41 Station: 42 Event #: 15 Ship: Uctar UTC Date (dd|mmm|yyyy): 12 | 06 | 2008

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	50	1338	3.861	BOT	✓	315											O ₂ small bubble
2	51	1340	3.824	300	✓				✓								
3	52	1341	4.065	250	✓												
4	53	1340	4.139	200	✓												
5	54	1344	4.176	175	✓												
6	55	1347	4.252	150	✓												
7	56	1351	4.264	125	✓			✓									
8	57	1354	4.259	100	✓												
9	58	1356	4.505	75	✓												
10	59	1358	4.351	50	✓												
11	60	1360	4.366	40	✓												
12	61	1361	4.543	30	✓												
13	62	1362	4.868	20	✓					✓	✓						
14	63	1363	5.664	10	✓					✓	✓						
15	64	1364	6.374	5	✓					✓	✓						
16	65	1366	7.792	300													
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): JP

Bottom Depth: 315 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	138	
Bottom	144	
End	201	

Positional Information

Start Lat: 49 ° 1897 N
Lon: 123 ° 26021 W

Bottom Lat: 49 ° 1861 N
Lon: 123 ° 25961 W

End Lat: 49 ° 1790 N
Lon: 123 ° 25782 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: 2008-41 Station: 39 Event #: 19 Ship: VECTOR UTC Date (dd|mmm|yyyy): 18 | 06 | 2008

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 µM	PHTs							
1	66	632	3.917	807	✓ 370													
2	67	76	3.810	350	✓													
3	68	329	3.905	300	✓			✓										
4	69	425	3.962	250	✓													
5	70	371	4.153	200	✓													
6	71	439	4.125	175	✓													
7	72	456	4.239	150	✓													
8	73	462	4.312	125	✓		✓											
9	74	547	4.144	100	✓													
10	75	421	4.061	75	✓													
11	76	557	4.318	50	✓													
12	77	2040	4.629	40	✓													
13	78	559	4.931	30	✓													
14	79	575	5.523	20	✓				✓	✓	✓							
15	80	586	6.373	10	✓				✓	✓	✓							
16	81	589	6.9102	5	✓													strange endpoint O ₂
17	82	1158	7.365	0	✓		✓		✓	✓	✓							
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Watchkeeper(s): RC / SF

Bottom Depth: 369 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	532	
Bottom	537	
End	555	

Positional Information

Start
Lat: 49 ° 9.865 N
Lon: 123 ° 32 820 W

Bottom
Lat: 49 ° 9.886 N
Lon: 123 ° 32 753 W

End
Lat: 49 ° 9.947 N
Lon: 123 ° 32 648 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: 2008-41

Station: 27

Event #: 22

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 18 | JUN | 2008

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	83	1367	3.926	BOT	✓ 344									
2	84	1368	3.999	300	✓			✓						
3	85	1365	4.146	250	✓									
4	86	1374	4.225	200	✓									
5	87	1301	4.223	175	✓									> started titration w/ meter in MQ (DT)
6	88	1302	4.287	150	✓									
7	89	1306	4.451	125	✓			✓						
8	90	1321	4.609	100	✓									
9	91	1333		75	✓									O ₂ : see note attached
10	92	1487	3.966	50	✓									O ₂ : see note below
11	93	715	3.859	40	✓									
12	94	1309	4.053	30	✓									
13	95	1328	5.316	20	✓				vv	vv				calibration error - recast sample
14	96	1452	6.501	10	✓				vv	vv				
15	97	1448	6.848	5	✓									24.1 bars
16	98	1375	6.981	Surf	✓				vv	vv				
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): MS/RD

Bottom Depth: 350 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0843	
Bottom	0851	
End	0907	0211

Positional Information

Start

Lat: 49 ° 19.085 N

Lon: 123 ° 47.984 W

Bottom

Lat: 49 ° 19.074 N

Lon: 123 ° 47.998 W

End

Lat: 49 ° 19.068 N

Lon: 123 ° 47.981 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

<http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/>

Version: 28 Feb 2008

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

NOTE: the MnO₂ dispenser sticks a little, so that air bubbles get into the dispenser - I've seen a few bubbles get into the sample when the MnO₂ is added. #92 was oxidized, but the solution - w/ stirrer & stopper. Did not appear oxy for MQ calibration drifts from

- clicked "set endpoint"
- #91
→ window opened saying:
"runtime error 011"
- no choice but to click
"OK" so I did
- program crashed!
- * titration of sample 91
complete but not calculated

Water Properties Group

Rosette Log

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

Cruise ID: 2008-41

Station: 2

Event #: 26

Ship: Ductor

UTC Date (dd|mmm|yyyy): 18 | 06 | 2008

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	99	632	3.670	200	✓	275											find 1 twice
2	100	76	3.676	250	✓												due to rosette
3	101	329	4.154	200	✓												
4	102	425	4.079	175	✓												
5	103	371	4.155	150	✓												both depth
6	104	439	4.512	125	✓			✓									swim in
7	105	656	4.303	100	✓												on wire
8	106	462	4.248	75	✓												networking
9	107	547	3.975	50	✓												
10	108	471	4.171	40	✓												
11	109	557	4.648	30	✓												
12	110	2040	5.070	20	✓												
13	111	589	4.981	10	✓												
14	112	575	6.495	5	✓												
15	113	586	6.673	surf													
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): 710+

Bottom Depth: 275 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1320	
Bottom	1328	
End	1347	

Positional Information

Start

Lat: 49 ° 24073 N

Lon: 124 ° 9 269 W

Bottom

Lat: 49 ° 24085 N

Lon: 124 ° 9 270 W

End

Lat: 49 ° 24085 N

Lon: 124 ° 9 241 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: _____ Station: 3 Event #: 29 Ship: Vector UTC Date (dd|mmm|yyyy): 18 | 06 | 2008

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	114	1418	3.363	ROT	☒	318										bottle depth not recorded
2	115	1413	3.310	300	☒											
3	116	1421	3.387	250	☒											
4	117	1427	3.712	200	☒											
5	118	1428	4.077	175	☒											
6	119	1426	4.282	150	☒											
7	120	1429	4.413	125	☒											
8	121	1430	4.368	100	☒											
9	122	1433	4.323	75	☒											
10	123	1432	3.918	50	☒											
11	124	1434	4.013	40	☒											
12	125	1446	4.480	30	☒											
13	126	1445	4.353	20	☒					✓	✓					
14	127	1443	5.243	10	☒					✓	✓					
15	128	1440	6.027	5	☒											
16	129	1447	6.489	surf	☒					✓	✓					
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s):
PC + SF

Bottom Depth: 326 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Start	1632	
Bottom	1637	
End	1655	

Positional Information

Start
Lat: 49 ° 26.568 N
Lon: 124 ° 20.164 W

Bottom
Lat: 49 ° 26.568 N
Lon: 124 ° 20.160 W

End
Lat: 49 ° 26.531 N
Lon: 124 ° 20.051 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: 2008-41

Station: 6

Event #: 31

Ship: Vector

UTC Date (dd|mmm|yyyy): 18 | 06 | 2008

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	130	1456	3.916	100	✓	185										
2	131	1338	4.016	125	✓			✓								
3	132	1340	4.141	150	✓											
4	133	1341	4.252	125	✓		✓									
5	134	1344	4.520	100	✓											
6	135	1347	4.766	75	✓											
7	136	1351	3.912	50	✓											
8	137	1354	4.189	40	✓											
9	138	1356	4.448	30	✓											No nut sample
10	139	1366	4.259	20	✓				✓	✓						
11	140	1360	4.818	10	✓				✓	✓						took nut sample from HPLC bottle
12	141	1361	5.765	5	✓											X No nut sample.
13	142	1362	6.337	surf	✓				✓	✓						
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): S.F.

Bottom Depth: 185 m

Transmisso Cleaned: Y / ☒ N

Time	UTC	Local
Start	18:33	
Bottom	18:37	
End	18:50	

Positional Information

Start
Lat: 49 ° 30.628 N
Lon: 124 ° 27.770 W

Bottom
Lat: 49 ° 30.628 N
Lon: 124 ° 27.764 W

End
Lat: 49 ° 30.631 N
Lon: 124 ° 27.758 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: 2008-41 Station: 9 Event #: 34 Ship: VECTOR UTC Date (dd|mmm|yyyy): 18 | JUN | 2008

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	143	690	2.770	150	✓ 162									
2	144	1175	2.734	150	✓			✓						
3	145	1176	3.915	125	✓		uv							
4	146	1146	4.153	100	✓									
5	147	1180	3.867	75	✓									
6	148	1414	4.147	50	✓									
7	149	1213	4.375	40	✓									
8	150	1106	4.563	30	✓									
9	151	1144	4.465	20	✓				✓	✓				
10	152	2020	4.707	10	✓				✓	✓				
11	153	1315	5.848	5	✓									
12	154	1317	6.671	surf	✓ 1.7				✓	✓				
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s):
M.Q. / RD

Bottom Depth: 167 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2120	
Bottom	2124	
End	2135	1435

Positional Information

Start Lat: 49 ° 35.476 N
Lon: 124 ° 38.249 W

Bottom Lat: 49 ° 35.477 N
Lon: 124 ° 38.248 W

End Lat: 49 ° 35.484 N
Lon: 124 ° 38.266 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: 2008-31 Station: 12 Event #: 37 Ship: Valiant UTC Date (dd|mmm|yyyy): 15|06|2008

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	MP4	PHYTO			
1	155	638	3.380	BOT	☒ 350	1	1							
2	156	647	3.385	300	☒			✓						
3	157	657	3.463	250	☒									
4	158	639	3.560	200	☒									
5	159	700	3.892	175	☒									
6	160	712	3.803	150	☒									
7	161	1174	4.091	125	☒		✓							
8	162	1105	4.072	100	☒		✓							
9	163	1367	3.588	75	☒									
10	164	1368	3.797	50	☒									
11	165	1365	4.093	40	☒									
12	166	1374	4.063	30	☒									
13	167	1301	4.305	20	☒				✓	✓				
14	168	1302	5.417	10	☒				✓	✓				
15	169	1326	6.767	5	☒									
16	170	1321	7.445	surf	☒				✓	✓	XXX			
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): 24/04

Bottom Depth: 357 m

Transmisso Cleaned: Y N

Time	UTC	Local
Start	23 25	
Bottom	27 32	
End	23 48	

Positional Information

Start Lat: 49 ° 43 57.6 N
Lon: 124 ° 40 78.1 W

Bottom Lat: 49 ° 43 60.4 N
Lon: 124 ° 40 83.2 W

End Lat: 49 ° 43 65.4 N
Lon: 124 ° 40 93.4 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: ____|____|____

Analyst: WJ

* 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: 2008-41 Station: 14 Event #: 39 Ship: Verden UTC Date (dd|mmm|yyyy): 19 | 06 | 2008

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 _{7.0}					
1	171	632	3.184	800	✓	312											
2	172	76	3.215	300	✓												
3	173	329	3.502	250	✓												
4	174	425	3.727	200	✓												
5	175	371	3.858	175	✓												
6	176	439	3.718	150	✓												
7	177	456	3.501	125	✓												
8	178	462	3.853	100	✓												
9	179	549	3.805	75	✓												
10	180	471	4.117	50	✓												
11	181	552	4.189	40	✓												
12	182	2040	4.239	30	✓												
13	183	559	4.120	20	✓					uv	uv						
14	184	535	5.234	10	✓					uv	uv						
15	185	586	6.339	5	✓												O ₂ small air bubble
16	186	589	6.448	surf	✓		✓	✓		uv	uv	uv					
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): P. J. J.

Bottom Depth: 317 m

Transmisso Cleaned: ☒ / N

Time	UTC	Local
Start	154	
Bottom	200	
End		

Positional Information

Start

Lat: 49 ° 52' 97.2" N

Lon: 124 ° 59' 55.6" W

Bottom

Lat: 49 ° 52' 97.8" N

Lon: 124 ° 59' 52.7" W

End

Lat: ° N

Lon: ° 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: 2008-41 Station: 16 Event #: 41 Ship: VECTOR UTC Date (dd|mmm|yyyy): 19 | JUN | 2008

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	181	1418	3.655	805	☒	152								
2	189	1413	3.577	125	☒									
3	189	1421	3.578	100	☒									
4	190	1427	3.570	75	☒									
5	191	1428	3.701	50	☒									
6	192	1426	3.807	40	☒									
7	193	1429	4.030	30	☒									
8	194	1430	4.093	20	☒									
9	195	1433	4.342	10	☒									
10	196	1432	4.928	5	☒									
11	197	1434	5.505	Surf	☒									
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): R SF

Bottom Depth: 155 m

Transmissio Cleaned: ☒ Y / ☐ N

	Time	UTC	Local
Start		0335	
Bottom		0339	
End		0348	

Positional Information

Start Lat: 49 ° 57.702 N
Lon: 125 ° 8.879 W

Bottom Lat: 49 ° 57.712 N
Lon: 125 ° 8.941 W

End Lat: 49 ° 57.673 N
Lon: 125 ° 8.993 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: 2008-41 Station: 62 Event #: 49 Ship: VECTOR UTC Date (dd|mmm|yyyy): 19 | 06 | 2008

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	NH ₄ HPLC				
1	198	1456	2.709	80	✓ 140									
2	199	1338	2.703	125	✓									
3	200	1340	3.708	100	✓									
4	201	1341	4.138	75	✓									
5	202	1344	4.695	50	✓									
6	203	1347	4.742	40	✓									
7	204	1351	4.709	30	✓									
8	205	1354	5.125	20	✓				xx	xx				
9	206	1356	5.188	10	✓				xx	xx				
10	207	1366	X	5	✓									
11	208	1360	X	0										
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): MD/RD

Bottom Depth: 146 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2047	
Bottom	2052	
End	2102	202

Positional Information

Start
Lat: 48 ° 22.80 N
Lon: 123 ° 02.65 W

Bottom
Lat: 48 ° 22.83 N
Lon: 123 ° 02.69 W

End
Lat: 48 ° 22.84 N
Lon: 123 ° 02.75 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: 2008-41

Station: 65

Event #: 52

Ship: Vectra

UTC Date (dd|mmm|yyyy): 19 | 06 | 2008

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	209	632	2.521	801.5	✓	122											
2	210	76	2.717	100	✓												
3	211	329	3.514	75	✓												
4	212	425	3.606	50	✓												
5	213	371	4.013	40	✓												
6	214	439	4.193	30	✓												
7	215	456	4.475	20	✓												
8	216	462	4.792	10	✓												
9	217	547	5.029	5	✓												
10	218	471	5.292	0	✓												
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): 1010+

Bottom Depth: 125 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2333	
Bottom	2336	
End	2344	

Positional Information

Start
Lat: 48 ° 15 926 N
Lon: 123 ° 9 749 W

Bottom
Lat: 48 ° 15 926 N
Lon: 123 ° 9 722 W

End
Lat: 46 ° 15 910 N
Lon: 123 ° 9 522 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: 2008-41 Station: ADCP Event #: 56 Ship: Vector UTC Date (dd|mmm|yyyy): 20|06|2008

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	219	1413	1.846	100-5	☒ 117									
2	220	1418	1.915	100	☒									
3	221	1421	1.907	75	☒									
4	222	1426	2.284	50	☒									
5	223	1427	2.753	40	☒									
6	224	1428	3.446	30	☒			X						
7	225	1429	3.561	20	☒				XX	XX				
8	226	1430	3.946	10	☒				XX	XX				
9	227	1432	4.813	5	☒									
10	228	1433	5.261	0	☒	↓	↓		XX	XX				
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): JD / DT

Bottom Depth: 113 m

Transmisso Cleaned: ☒ / N

Time	UTC	Local
Start	216	
Bottom	218	
End	225	

Positional Information

Start Lat: 48 ° 13915 N
Lon: 123 ° 17947 W

Bottom Lat: 48 ° 13981 N
Lon: 123 ° 17929 W

End Lat: 48 ° 13994 N
Lon: 123 ° 17858 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: 2008-41

Station: 69

Event #: 59

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 20 | JUN | 2008

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	557	1.511	Bot	✓	177											
2	230	2040	1.485	150	✓												
3	231	559	1.495	125	✓												
4	232	575	1.466	100	✓												
5	233	586	1.907	75	✓												
6	234	589	2.936	50	✓												
7	235	1158	3.585	40	✓												
8	236	605	4.035	30	✓												
9	237	620	4.492	20	✓												
10	238	611	5.119	10	✓												
11	239	621	5.355	5	✓												
12	240	622	5.682	surf	✓												
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): RE/SF

Bottom Depth: 178 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0508	
Bottom	0512	
End	0523	

Positional Information

Start
Lat: 48 ° 15.641 N
Lon: 123 ° 43.319 W

Bottom
Lat: 48 ° 15.686 N
Lon: 123 ° 43.329 W

End
Lat: 48 ° 15.749 N
Lon: 123 ° 43.557 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: 2008-41 Station: 72 Event #: 62 Ship: VECTOR UTC Date (dd|mmm|yyyy): 20 | JUN | 2008

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	241	1413	1.384	BOT	✓ 185									
2	242	1418	1.465	175	✓			✓						
3	243	1421	1.381	150	✓									
4	244	1427	1.900	125	✓									
5	245	1426	1.772	100	✓									
6	246	1428	2.588	75	✓									
7	247	1429	3.829	50	✓									
8	248	1430	4.074	40	✓									
9	249	1432	4.222	30	✓									
10	250	1433	4.390	20	✓				✓	✓				
11	251	1434	4.762	10	✓				✓	✓				
12	252	1440	4.673	5	✓									
13	253	1443	5.431	Surf	✓				✓	✓				
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): MO/RP

Bottom Depth: 192 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0741	
Bottom	0746	
End	0759	0100

Positional Information

Start
 Lat: 48 ° 18.635 N
 Lon: 124 ° 04.098 W

Bottom
 Lat: 48 ° 18.696 N
 Lon: 124 ° 04.168 W

End
 Lat: 48 ° 18.806 N
 Lon: 124 ° 04.294 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: 2008-4 Station: 75 Event #: 65 Ship: Vesta UTC Date (dd|mmm|yyyy): 20|06|2008

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	254	1456	1.418	180	✓	221											
2	255	1338	1.419	200	✓												
3	256	1340	1.441	175	✓												
4	257	1341	1.459	150	✓												
5	258	1344	1.524	125	✓												
6	259	1347	1.837	100	✓												
7	260	1351	2.234	75	✓												air bubbles
8	261	1354	3.084	50	✓												
9	262	1356	3.492	40	✓												
10	263	1360	3.876	30	✓												
11	264	1366	4.659	20	✓												
12	265	1361	5.197	10	✓												
13	266	1362	6.038	5	✓												
14	267	1363	6.158	20	✓												
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): [Signature]

Bottom Depth: 90 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1217	
Bottom	1225	
End	1233	

Positional Information

Start
Lat: 48 ° 28 21 N
Lon: 124 ° 32 28 W

Bottom
Lat: 48 ° 28 22.4 N
Lon: 124 ° 32 24.0 W

End
Lat: 48 ° 28 21.3 N
Lon: 124 ° 32 29.3 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: ____|____|____

Analyst: AD

* 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: 2008-41 Station: 102 Event #: 68 Ship: Vector UTC Date (dd|mmm|yyyy): 20 | 06 | 2008

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	268	76	1.324	300	☒	250										
2	269	329	1.219	250	☒											
3	270	371	1.551	200	☒											
4	271	425	1.894	175	☒											
5	272	439	1.558	150	☒											
6	273	456	2.058	125	☒											
7	274	462	2.309	100	☒											
8	275	471	2.343	75	☒											O ₂ air bubble
9	276	547	3.007	50	☒											
10	277	632	3.427	40	☒											
11	278	557	3.505	30	☒		✓									
12	279	2040	4.005	20	☒				✓	✓						
13	280	559	5.717	10	☒				✓	✓						
14	281	575	5.853	5	☒											
15	282	586	6.412	50	☒				✓	✓						
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): MPT

Bottom Depth: 254 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1358	
Bottom	1405	
End	1420	0520

Positional Information

Start
Lat: 48 ° 30.078 N
Lon: 124 ° 44.86 W

Bottom
Lat: 48 ° 30.096 N
Lon: 124 ° 44.231 W

End
Lat: 48 ° 30.224 N
Lon: 124 ° 44.484 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: ____ | ____ | ____

Analyst: 118

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