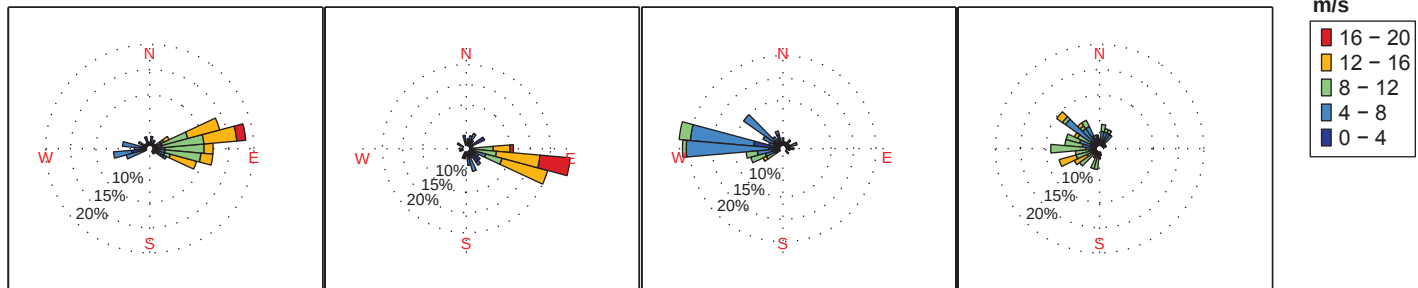
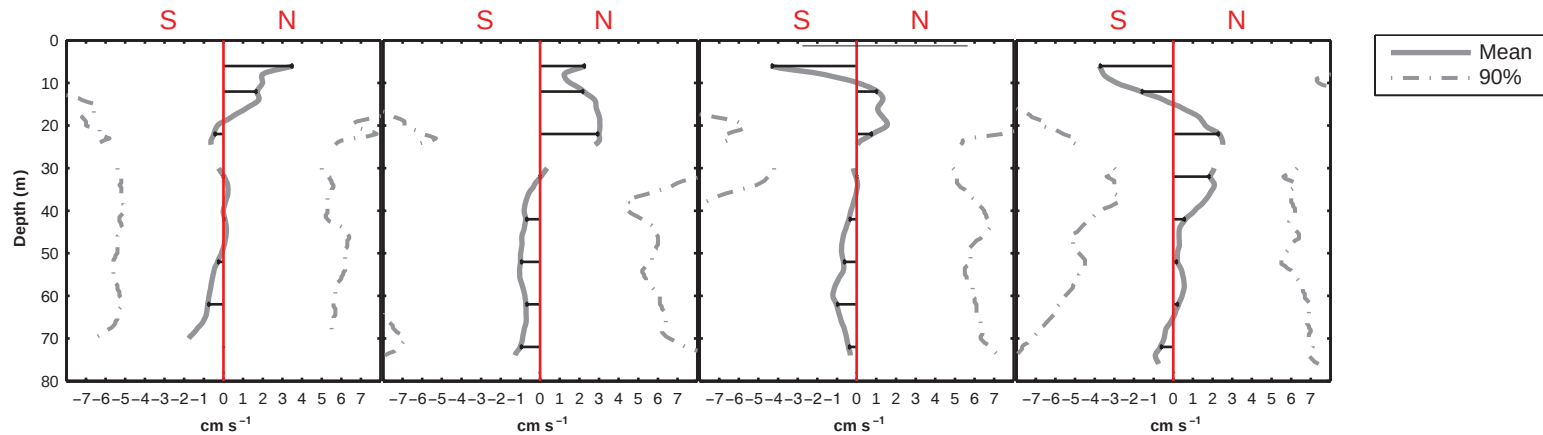
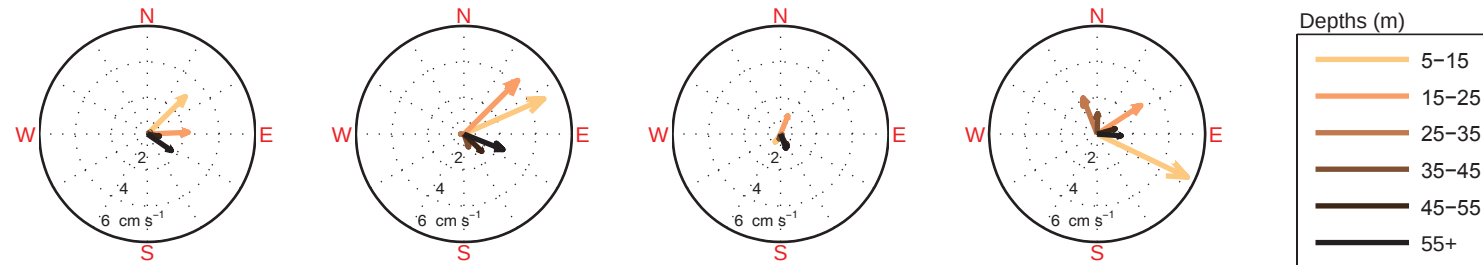


14-Aug to 20-Aug

21-Aug to 25-Aug

26-Aug to 30-Aug

10-Sep to 15-Sep

Wind Roses**Depth Profiles****Compass Plots**

Notes: Wind flow is FROM the direction shown.

Current flow is TOWARDS the direction shown.

No data is available in the water column between 24 and 30 m depths due to instrument location.

4. Summary

4. Summary

4.1 ICE-COVERED CONDITIONS (FEBRUARY TO MAY, 2011)

During the ice-covered season, a 1 to 2 m thick ice layer forms that shelters Roberts Bay waters from atmospheric winds. Over time, the under-ice convection generated from the ice growth leads to the formation of a two-layer thermohaline structure with weak stratification in the water column, and a colder, fresher layer of 25 to 30 m thickness atop a more saline, warmer layer extending to the bottom.

Under-ice currents were generally very weak, with mean horizontal current velocities between 1 and 2 cm/s. Deep currents, which were driven either by density gradients formed through ice formation/brine release or advection of waters from Melville Sound, had generally stronger velocities. This was particularly apparent for the more southern, 38 m station, which had recorded mean currents between 4 and 5 cm/s with a maximum of 7.91 cm/s. A summary of the mean north velocity component and the mean and maximum current speed magnitudes observed for each winter deployment is shown in Table 4.1-1. A summary of the mean north velocity component and the mean and maximum current speed magnitudes observed for each winter deployment is shown in Table 4.1-1. The depths selected are the same that are analyzed in Appendix 3-3.

Table 4.1-1. Summary of the Mean North Velocity Component and the Mean and Maximum Current Speeds in Roberts Bay, Doris North Project, Winter 2011

Site and Depth	Mean North Velocity Component (cm/s)*	Mean Speed (cm/s)	Maximum Speed (cm/s)
Feb 10 - Feb 22, 38 m Site	9 m	0.20	1.80
	21 m	0.51	1.19
	30 m	4.79	4.88
Feb 22 - Apr 16 38 m Site	9 m	0.17	1.69
	21 m	0.37	0.98
	30 m	3.96	4.02
Apr 21 - May 11, 85 m Site	12 m	0.24	1.05
	36 m	-0.21	0.99
	66 m	-0.62	1.23
	78 m	0.02	0.78

**Note: Northern velocities are positive.*

The denser waters tended to slowly pool and accumulate in the deep basin of Roberts Bay, where they remained relatively isolated from other water sources. The dense downwelling waters appeared to be replaced by advecting surface currents from the middle region of Roberts Bay. The overall circulation pattern in the surface waters appeared to be a sluggish clockwise flow, with occasional larger currents recorded directly under the sea ice, particularly in shallow areas where brine rejection flows were likely to occur. Tidal ebb and flow currents were found across the bay, but they had very low velocities of around 0.1 cm/s.

Occasionally, fronts of different water masses came into contact and generated vertical mixing between both layers in the water column. This phenomenon was observed at the bay's mouth where Roberts Bay and Melville Sound waters interact.

A schematic interpretation of the general winter circulation in Roberts Bay can be found in Figure 4.1-1.

4.2 OPEN-WATER CONDITIONS (JUNE TO OCTOBER, 2011)

In early summer, the increased sunlight and warming atmospheric temperatures eventually caused the ice cover to melt in early July, flooding the surface of Roberts Bay with a large volume of fresh, warm water. After the ice cover breakup, wind forcing on Roberts Bay waters contributed to a significant increase in current velocity and variability, particularly near the surface.

The addition of freshwater produced from ice melting, combined with the mixing resulting from wind generated currents and warmer temperatures, progressively lead to the formation of an alternate two-layered thermohaline structure with a warmer, fresher wind-mixed layer atop a colder more saline bottom layer. The stratification was much steeper than that found in the winter months, with the top layer starting relatively thin at 5 to 10 m thickness, but spreading to over 25 m depth in the fall.

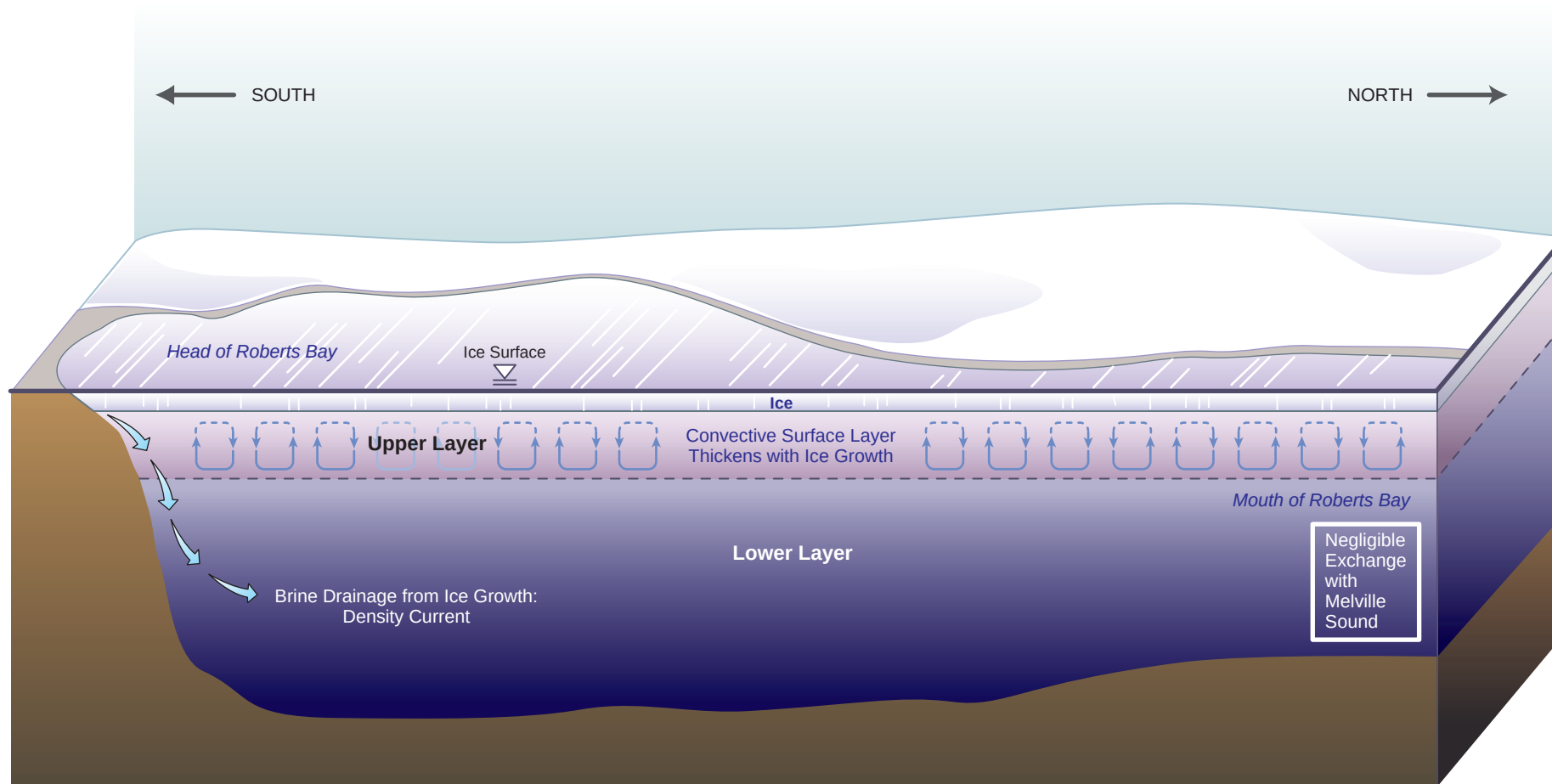
The current variability changed dramatically during the summer, with a ten-fold increase in water exchange rate estimated at Roberts Bay mouth where the mooring measurements were obtained. Mean horizontal current velocities in the deep layer ranged from 1 to 5 cm/s, but had recorded maximums near 30 cm/s during periods of large flow. Similarly, while horizontal currents in the upper water column had mean velocities between 1 and 6 cm/s, maximum values of over 30 cm/s were sometimes recorded above 10 m depth. A summary of the mean north velocity component and the mean and maximum current speed magnitudes observed for each summer deployment is shown in Table 4.2-1. The depths selected are the same that are analyzed in Appendix 3-3.

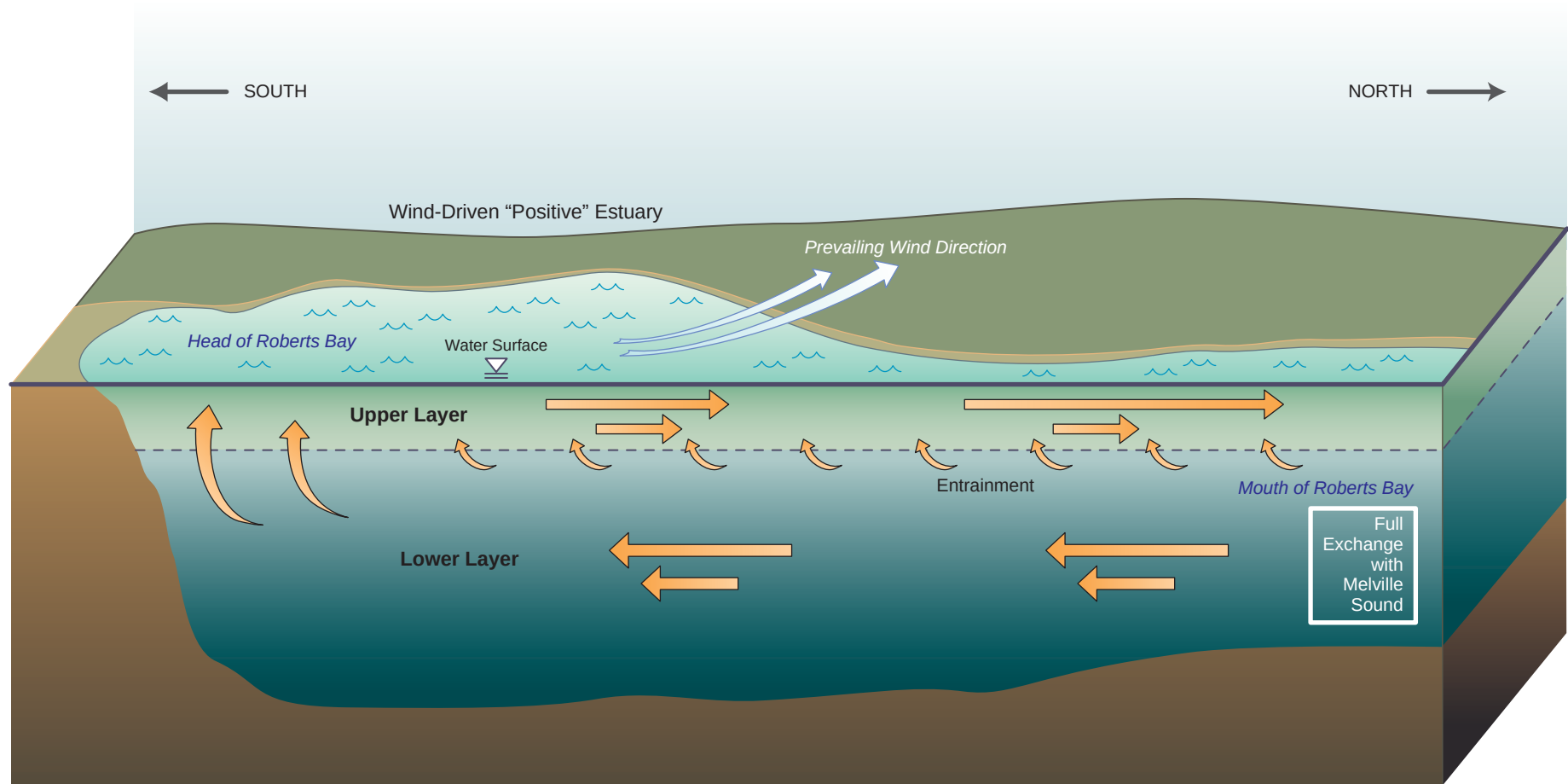
Table 4.2-1. Summary of the Mean North Velocity Component and the Mean and Maximum Current Speeds in Roberts Bay, Doris North Project, Summer 2011

Site and Depth		Mean North Velocity Component (cm/s)*	Mean Speed (cm/s)	Maximum Speed (cm/s)
May 22 - Jul 17, 85 m site	16 m	0.17	1.46	6.24
	34 m	-0.15	1.10	4.11
	58 m	-0.23	1.02	5.50
	76 m	-0.45	1.11	5.03
Jul 17 - Oct 04, 85 m site	17 m	-0.38	5.38	22.89
	34 m	-0.18	2.83	17.14
	58 m	-0.81	3.22	23.94
	66-72 m	-1.26	3.74	29.81

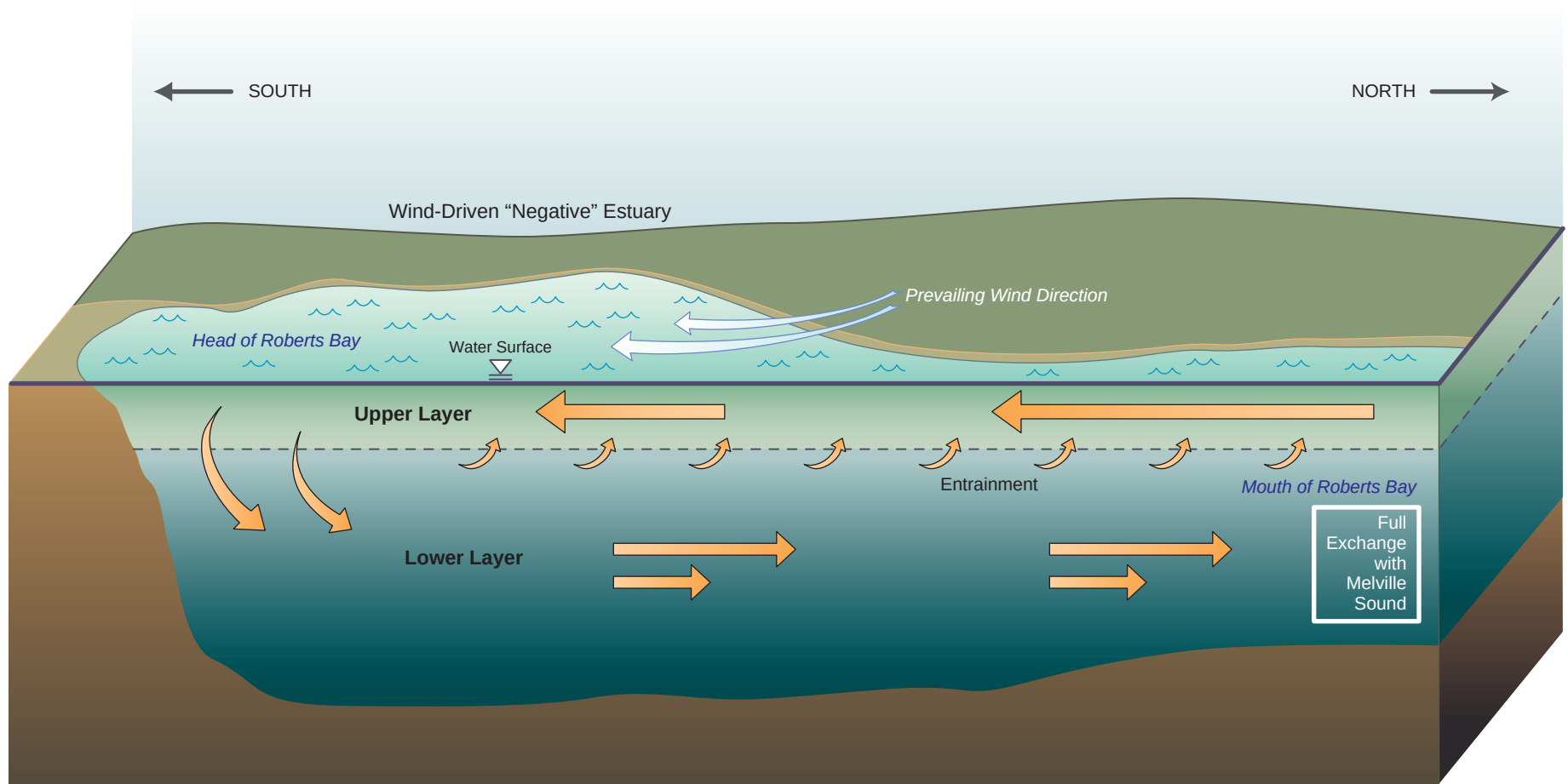
**Note: Northern velocities are positive.*

The general circulation within Roberts Bay was assumed to be anticyclonic (clockwise) for both top and bottom layers. The combination of southern/easterly winds and freshwater inputs resulted in a positive-type two-layered estuarine circulation for roughly 70% of flow measurements, where the top layer flowed seaward and the deeper waters flowed into Roberts Bay from Melville Sound. A schematic interpretation of this type of circulation in Roberts Bay can be found in Figure 4.2-1. For the other ~30% of the time, the general estuarine circulation was shown to reverse itself as illustrated in Figure 4.2-2, depending on the prevailing wind conditions and strength of flow incoming from Melville Sound.





Note: The Prevailing Wind Direction refers to the wind direction that will most easily drive the circulation shown in the figure.



Note: The Prevailing Wind Direction refers to the wind direction that will most easily drive the circulation shown in the figure.

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Appendix 3-1

**Temperature, Salinity, and Oxygen Profiles
in Roberts Bay, Doris North Project, 2011**

Appendix 3-1. Temperature, Salinity, and Oxygen Profiles in Roberts Bay, Doris North Project, 2011

List of Tables

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Table A3-1.2. Open-Water Data for Temperature, Salinity, and Density in Roberts Bay, Doris North Project, July-October 2011

Table A3-1.3. Under-Ice Data for Dissolved Oxygen in Roberts Bay, Doris North Project, March-May 2011

Table A3-1.4. Open-Water Data for Dissolved Oxygen in Roberts Bay, Doris North Project, July-September 2011

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

WT4 - 18-Mar-11				WT4 - 18-Mar-11				WT4 - 18-Mar-11			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t	(m)		(°C)	σ_t
2.19	26.78	-1.45	21.50	18.96	26.76	-1.42	21.48	39.02	27.03	-0.35	21.68
2.53	26.75	-1.44	21.48	19.25	26.76	-1.42	21.48	39.32	27.01	-0.31	21.67
2.88	26.74	-1.44	21.47	19.49	26.76	-1.42	21.48	39.61	27.01	-0.28	21.67
3.27	26.75	-1.43	21.47	19.76	26.76	-1.42	21.48	40.02	27.00	-0.26	21.66
3.82	26.76	-1.43	21.48	20.14	26.76	-1.42	21.48	40.35	27.00	-0.25	21.66
4.09	26.76	-1.43	21.48	20.55	26.76	-1.42	21.48	40.73	26.98	-0.24	21.64
4.25	26.76	-1.43	21.48	20.95	26.77	-1.42	21.49	40.87	26.97	-0.26	21.64
4.57	26.76	-1.43	21.49	21.38	26.76	-1.42	21.48	41.13	26.96	-0.26	21.63
4.82	26.76	-1.43	21.48	21.73	26.76	-1.42	21.48	41.38	26.98	-0.29	21.65
4.95	26.76	-1.43	21.49	22.10	26.76	-1.42	21.48	41.71	26.99	-0.30	21.65
5.19	26.76	-1.43	21.49	22.46	26.76	-1.42	21.48	42.05	26.99	-0.30	21.65
5.26	26.76	-1.43	21.48	22.70	26.76	-1.42	21.48	41.99	26.99	-0.30	21.66
5.08	26.76	-1.43	21.48	22.96	26.76	-1.42	21.48	42.09	26.99	-0.30	21.65
5.06	26.76	-1.43	21.48	23.29	26.76	-1.42	21.48	42.37	27.00	-0.30	21.66
5.27	26.76	-1.43	21.48	23.70	26.76	-1.42	21.48	42.75	27.01	-0.28	21.67
5.51	26.75	-1.43	21.48	24.05	26.77	-1.42	21.49	43.11	27.01	-0.26	21.67
5.64	26.76	-1.43	21.48	24.35	26.77	-1.42	21.49	42.35	26.99	-0.27	21.65
5.83	26.75	-1.43	21.48	24.42	26.77	-1.42	21.49	42.78	27.00	-0.26	21.66
6.22	26.77	-1.42	21.49	24.76	26.77	-1.42	21.49	43.04	26.99	-0.25	21.65
6.70	26.76	-1.42	21.48	25.22	26.78	-1.42	21.50	43.04	26.99	-0.25	21.65
6.97	26.76	-1.42	21.48	25.73	26.77	-1.42	21.49	43.29	27.01	-0.25	21.67
7.03	26.77	-1.42	21.49	26.16	26.77	-1.42	21.49	43.64	27.00	-0.24	21.66
7.01	26.75	-1.42	21.48	26.62	26.77	-1.42	21.50	43.64	27.01	-0.24	21.67
7.02	26.75	-1.42	21.47	26.88	26.78	-1.42	21.50	43.63	27.00	-0.23	21.66
7.14	26.75	-1.42	21.48	26.90	26.78	-1.42	21.50	43.63	26.99	-0.23	21.65
7.54	26.77	-1.42	21.49	27.06	26.78	-1.42	21.50	43.94	27.02	-0.24	21.68
8.11	26.76	-1.42	21.48	27.54	26.79	-1.42	21.50	44.38	27.01	-0.22	21.67
8.67	26.75	-1.42	21.48	27.87	26.80	-1.42	21.52	44.52	27.02	-0.21	21.67
9.20	26.76	-1.42	21.48	28.17	26.79	-1.41	21.51	44.99	27.01	-0.21	21.67
9.72	26.75	-1.42	21.48	28.45	26.79	-1.41	21.51	45.30	27.01	-0.21	21.67
10.30	26.76	-1.42	21.48	28.98	26.79	-1.40	21.50	45.68	27.02	-0.21	21.67
10.84	26.76	-1.42	21.48	29.51	26.78	-1.40	21.50	45.28	27.01	-0.20	21.67
11.18	26.76	-1.42	21.48	29.97	26.79	-1.40	21.51	45.71	27.02	-0.20	21.67
11.59	26.76	-1.42	21.48	30.36	26.79	-1.40	21.51	45.94	27.02	-0.20	21.67
11.91	26.76	-1.42	21.48	30.88	26.79	-1.40	21.51	46.28	27.01	-0.20	21.67
12.16	26.76	-1.42	21.48	31.26	26.79	-1.40	21.51	46.65	27.02	-0.20	21.67
12.08	26.76	-1.42	21.48	31.80	26.80	-1.40	21.52	46.90	27.02	-0.20	21.67
12.56	26.76	-1.42	21.48	32.01	26.80	-1.40	21.51	47.34	27.02	-0.20	21.67
12.84	26.76	-1.42	21.48	32.41	26.80	-1.40	21.51	47.78	27.02	-0.20	21.67
13.12	26.76	-1.42	21.48	32.79	26.80	-1.40	21.52	48.11	27.02	-0.20	21.67
13.12	26.75	-1.42	21.48	33.01	26.79	-1.40	21.51	48.33	27.02	-0.20	21.67
13.38	26.76	-1.42	21.48	33.32	26.80	-1.40	21.52	48.78	27.02	-0.20	21.67
13.72	26.76	-1.42	21.48	33.65	26.80	-1.40	21.52	49.24	27.03	-0.20	21.68
14.18	26.76	-1.42	21.48	34.03	26.81	-1.39	21.52	49.50	27.03	-0.19	21.68
14.33	26.76	-1.42	21.48	34.37	26.80	-1.39	21.52	49.71	27.03	-0.19	21.68
14.89	26.76	-1.42	21.48	34.78	26.80	-1.39	21.52	49.88	27.03	-0.19	21.68
15.47	26.76	-1.42	21.48	35.17	26.80	-1.38	21.52				
15.84	26.76	-1.42	21.48	35.69	26.81	-1.38	21.52				
16.36	26.76	-1.42	21.48	36.13	26.85	-1.37	21.55				
16.84	26.76	-1.42	21.49	36.51	26.87	-1.31	21.57				
17.26	26.75	-1.42	21.48	36.98	26.95	-1.20	21.63				
17.64	26.76	-1.42	21.48	37.61	27.01	-1.05	21.69				
17.92	26.76	-1.42	21.48	37.81	27.24	-0.93	21.87				
18.29	26.75	-1.42	21.48	38.33	27.16	-0.57	21.79				
18.68	26.76	-1.42	21.48	38.64	27.08	-0.42	21.73				

WT7 - 18-Mar-11			
Depth	Salinity	Temp	Density
(m)		(°C)	σ_t
1.71	26.75	-1.39	21.47
2.61	26.75	-1.39	21.48
2.79	26.75	-1.39	21.47
2.79	26.75	-1.39	21.47

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

WT7 - 18-Mar-11				WT7 - 18-Mar-11				WT7 - 18-Mar-11			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t	(m)		(°C)	σ_t
2.79	26.75	-1.39	21.47	4.76	26.75	-1.39	21.48	6.66	26.75	-1.39	21.48
2.79	26.75	-1.39	21.47	4.78	26.75	-1.39	21.48	6.66	26.76	-1.38	21.48
2.79	26.75	-1.39	21.47	4.79	26.76	-1.39	21.48	6.66	26.75	-1.38	21.47
2.80	26.75	-1.39	21.47	4.80	26.75	-1.39	21.48	6.67	26.75	-1.38	21.47
2.80	26.75	-1.39	21.48	4.82	26.75	-1.39	21.47	6.67	26.75	-1.39	21.48
2.80	26.75	-1.39	21.47	4.82	26.75	-1.39	21.48	6.67	26.75	-1.39	21.48
2.81	26.75	-1.39	21.47	4.82	26.75	-1.39	21.48	6.67	26.75	-1.39	21.47
2.82	26.75	-1.39	21.47	4.82	26.75	-1.39	21.48	6.67	26.75	-1.39	21.47
2.82	26.76	-1.39	21.48	4.82	26.75	-1.39	21.48	6.68	26.75	-1.39	21.48
2.82	26.75	-1.39	21.48	4.82	26.75	-1.39	21.47	6.68	26.75	-1.39	21.48
2.82	26.75	-1.39	21.47	4.82	26.75	-1.39	21.48	6.96	26.74	-1.38	21.47
2.82	26.75	-1.39	21.48	4.83	26.75	-1.39	21.48	7.64	26.74	-1.38	21.47
2.82	26.75	-1.39	21.47	4.83	26.75	-1.39	21.47	7.65	26.75	-1.38	21.47
2.82	26.75	-1.39	21.48	5.40	26.74	-1.38	21.47	7.65	26.75	-1.38	21.47
2.83	26.75	-1.39	21.48	5.47	26.75	-1.39	21.48	7.65	26.75	-1.38	21.47
2.83	26.75	-1.39	21.48	5.47	26.74	-1.38	21.47	7.65	26.75	-1.38	21.47
2.83	26.75	-1.39	21.48	5.47	26.75	-1.39	21.48	7.65	26.76	-1.38	21.48
2.83	26.75	-1.39	21.47	5.47	26.75	-1.38	21.48	7.65	26.75	-1.38	21.48
2.83	26.75	-1.39	21.48	5.47	26.74	-1.38	21.47	7.65	26.75	-1.38	21.47
2.83	26.75	-1.39	21.47	5.47	26.75	-1.39	21.48	7.65	26.75	-1.38	21.47
2.83	26.75	-1.39	21.48	5.47	26.75	-1.39	21.48	7.65	26.75	-1.38	21.47
2.83	26.75	-1.39	21.47	5.47	26.75	-1.38	21.47	7.65	26.75	-1.38	21.47
2.85	26.75	-1.39	21.48	5.48	26.75	-1.38	21.47	7.65	26.75	-1.38	21.47
3.09	26.75	-1.39	21.47	5.48	26.75	-1.39	21.47	7.65	26.75	-1.38	21.47
3.82	26.75	-1.39	21.47	5.48	26.74	-1.38	21.47	7.66	26.75	-1.38	21.48
3.82	26.75	-1.39	21.47	5.48	26.75	-1.39	21.48	7.66	26.75	-1.38	21.47
3.82	26.75	-1.39	21.48	5.48	26.75	-1.39	21.47	7.66	26.74	-1.37	21.47
3.82	26.75	-1.39	21.47	5.48	26.75	-1.38	21.47	7.66	26.75	-1.38	21.47
3.82	26.75	-1.39	21.48	5.48	26.74	-1.38	21.47	7.67	26.74	-1.38	21.47
3.82	26.75	-1.39	21.48	5.48	26.75	-1.38	21.47	7.67	26.74	-1.38	21.47
3.82	26.75	-1.39	21.48	5.48	26.75	-1.38	21.47	7.67	26.75	-1.38	21.47
3.82	26.75	-1.39	21.48	5.48	26.75	-1.38	21.47	7.67	26.75	-1.38	21.47
3.83	26.75	-1.39	21.48	5.48	26.74	-1.38	21.47	7.67	26.75	-1.38	21.47
3.83	26.76	-1.39	21.48	5.48	26.75	-1.38	21.47	7.68	26.75	-1.38	21.47
3.83	26.75	-1.39	21.47	5.48	26.75	-1.38	21.48	7.68	26.75	-1.38	21.47
3.83	26.75	-1.39	21.48	5.48	26.75	-1.39	21.47	8.65	26.75	-1.38	21.48
3.83	26.75	-1.39	21.48	5.48	26.74	-1.38	21.47	8.66	26.75	-1.38	21.48
3.83	26.75	-1.39	21.48	5.48	26.75	-1.38	21.47	8.67	26.75	-1.39	21.48
3.83	26.76	-1.39	21.48	5.48	26.76	-1.39	21.48	8.68	26.75	-1.38	21.48
3.83	26.75	-1.39	21.48	5.49	26.75	-1.39	21.48	8.70	26.75	-1.39	21.48
3.83	26.75	-1.39	21.48	5.53	26.75	-1.39	21.48	8.71	26.75	-1.38	21.48
3.83	26.75	-1.39	21.47	5.55	26.75	-1.39	21.48	8.72	26.75	-1.38	21.48
3.84	26.75	-1.39	21.48	5.56	26.75	-1.39	21.47	8.72	26.75	-1.38	21.48
3.84	26.75	-1.39	21.48	5.58	26.76	-1.39	21.48	8.72	26.75	-1.38	21.48
3.94	26.75	-1.39	21.48	5.59	26.75	-1.39	21.48	8.72	26.75	-1.38	21.48
3.96	26.75	-1.39	21.48	6.34	26.74	-1.38	21.47	8.72	26.75	-1.38	21.47
4.29	26.75	-1.39	21.47	6.49	26.75	-1.39	21.48	8.72	26.75	-1.38	21.47
4.70	26.75	-1.39	21.47	6.64	26.75	-1.39	21.47	8.72	26.75	-1.38	21.48
4.72	26.76	-1.39	21.48	6.64	26.75	-1.39	21.48	8.72	26.75	-1.38	21.47
4.73	26.75	-1.39	21.48	6.65	26.75	-1.39	21.47	8.72	26.75	-1.38	21.47
4.73	26.75	-1.39	21.47	6.65	26.75	-1.39	21.47	8.72	26.75	-1.38	21.48
4.73	26.75	-1.39	21.48	6.65	26.75	-1.38	21.47	8.72	26.75	-1.38	21.47
4.73	26.75	-1.39	21.47	6.65	26.75	-1.39	21.48	8.73	26.74	-1.38	21.47
4.75	26.75	-1.39	21.48	6.65	26.75	-1.39	21.48	8.73	26.75	-1.38	21.47
4.75	26.75	-1.39	21.48	6.65	26.75	-1.39	21.48	8.73	26.75	-1.38	21.48
4.75	26.75	-1.39	21.48	6.66	26.75	-1.39	21.48	8.73	26.75	-1.38	21.47
4.75	26.75	-1.39	21.48	6.66	26.75	-1.39	21.47	8.73	26.74	-1.38	21.47
4.75	26.75	-1.39	21.47	6.66	26.75	-1.39	21.48	9.63	26.75	-1.38	21.47

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

WT7 - 18-Mar-11				WT7 - 18-Mar-11				WT7 - 18-Mar-11			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t	(m)		(°C)	σ_t
9.67	26.75	-1.38	21.47	11.71	26.75	-1.38	21.47	14.57	26.74	-1.37	21.47
9.68	26.75	-1.39	21.48	11.71	26.74	-1.38	21.47	14.57	26.74	-1.38	21.47
9.69	26.75	-1.38	21.48	11.71	26.75	-1.38	21.47	14.57	26.75	-1.38	21.47
9.72	26.75	-1.39	21.48	11.71	26.75	-1.38	21.47	14.57	26.75	-1.38	21.47
9.73	26.75	-1.38	21.47	11.71	26.74	-1.38	21.47	14.57	26.74	-1.38	21.47
9.73	26.75	-1.39	21.48	11.71	26.75	-1.39	21.48	14.57	26.74	-1.37	21.46
9.73	26.75	-1.38	21.48	11.71	26.75	-1.38	21.47	14.57	26.74	-1.38	21.47
9.74	26.75	-1.38	21.47	11.71	26.75	-1.38	21.47	14.57	26.74	-1.38	21.47
9.74	26.75	-1.38	21.47	11.72	26.75	-1.38	21.47	14.57	26.74	-1.37	21.47
9.74	26.75	-1.38	21.47	11.72	26.75	-1.38	21.47	14.58	26.75	-1.38	21.47
9.77	26.75	-1.38	21.47	11.78	26.75	-1.38	21.47	14.58	26.74	-1.37	21.47
9.77	26.75	-1.38	21.48	12.27	26.74	-1.38	21.47	14.58	26.73	-1.36	21.46
9.77	26.75	-1.38	21.48	12.57	26.75	-1.38	21.48	14.58	26.74	-1.37	21.47
9.77	26.74	-1.38	21.47	12.58	26.75	-1.38	21.47	14.58	26.73	-1.37	21.46
9.77	26.75	-1.38	21.47	12.58	26.75	-1.38	21.48	14.58	26.74	-1.37	21.46
9.77	26.76	-1.38	21.48	12.58	26.75	-1.38	21.47	14.59	26.75	-1.38	21.47
9.77	26.75	-1.38	21.47	12.58	26.75	-1.38	21.47	14.61	26.74	-1.38	21.47
9.77	26.75	-1.38	21.47	12.58	26.75	-1.38	21.47	15.60	26.74	-1.37	21.47
9.77	26.75	-1.38	21.47	12.58	26.74	-1.38	21.47	15.60	26.74	-1.37	21.47
9.77	26.75	-1.38	21.47	12.58	26.75	-1.38	21.47	15.65	26.74	-1.37	21.46
9.98	26.75	-1.38	21.47	12.59	26.75	-1.38	21.47	15.65	26.74	-1.38	21.47
10.79	26.74	-1.38	21.47	12.59	26.75	-1.38	21.47	15.65	26.74	-1.37	21.47
10.86	26.75	-1.38	21.48	12.59	26.74	-1.38	21.47	15.65	26.73	-1.37	21.46
10.87	26.74	-1.38	21.47	12.59	26.75	-1.38	21.47	15.66	26.74	-1.37	21.47
10.88	26.75	-1.39	21.48	12.60	26.75	-1.38	21.47	15.66	26.74	-1.37	21.46
10.88	26.75	-1.38	21.48	12.60	26.75	-1.38	21.47	15.66	26.74	-1.38	21.47
10.89	26.75	-1.38	21.47	12.61	26.74	-1.38	21.47	15.66	26.74	-1.37	21.47
10.89	26.75	-1.38	21.47	12.62	26.74	-1.38	21.47	15.66	26.74	-1.37	21.47
10.89	26.76	-1.38	21.48	12.62	26.74	-1.38	21.47	15.66	26.74	-1.37	21.47
10.89	26.75	-1.38	21.47	12.62	26.74	-1.38	21.47	15.66	26.74	-1.37	21.47
10.89	26.75	-1.39	21.47	12.62	26.75	-1.38	21.47	15.66	26.75	-1.38	21.48
10.89	26.75	-1.38	21.47	12.64	26.75	-1.38	21.48	15.66	26.74	-1.38	21.47
10.89	26.74	-1.38	21.47	13.34	26.75	-1.38	21.48	15.66	26.74	-1.37	21.47
10.89	26.75	-1.38	21.48	13.62	26.75	-1.38	21.47	15.66	26.74	-1.37	21.47
10.90	26.75	-1.38	21.48	13.68	26.75	-1.38	21.47	15.66	26.74	-1.37	21.47
10.90	26.75	-1.38	21.47	13.69	26.74	-1.37	21.47	15.66	26.73	-1.37	21.46
10.90	26.75	-1.39	21.47	13.69	26.75	-1.38	21.47	15.67	26.74	-1.37	21.47
10.90	26.75	-1.38	21.47	13.70	26.75	-1.38	21.47	15.67	26.74	-1.37	21.47
10.90	26.75	-1.38	21.47	13.70	26.74	-1.38	21.47	16.58	26.73	-1.36	21.46
10.90	26.75	-1.38	21.48	13.70	26.74	-1.38	21.47	16.65	26.74	-1.37	21.46
10.90	26.75	-1.38	21.48	13.71	26.75	-1.38	21.47	16.72	26.74	-1.37	21.47
10.90	26.75	-1.38	21.47	13.71	26.75	-1.38	21.47	16.76	26.75	-1.37	21.48
10.90	26.75	-1.38	21.47	13.71	26.75	-1.38	21.47	16.77	26.74	-1.37	21.46
11.31	26.75	-1.38	21.47	13.72	26.74	-1.37	21.47	16.77	26.73	-1.37	21.46
11.56	26.75	-1.38	21.47	13.72	26.75	-1.38	21.47	16.78	26.75	-1.37	21.47
11.64	26.75	-1.38	21.48	13.72	26.74	-1.38	21.47	16.78	26.73	-1.36	21.46
11.70	26.75	-1.38	21.47	13.72	26.75	-1.38	21.47	16.78	26.74	-1.37	21.47
11.70	26.75	-1.39	21.48	13.73	26.74	-1.38	21.47	16.78	26.73	-1.36	21.46
11.70	26.74	-1.38	21.47	13.73	26.75	-1.38	21.47	16.78	26.74	-1.37	21.47
11.70	26.74	-1.38	21.47	13.90	26.74	-1.37	21.47	16.78	26.74	-1.37	21.46
11.70	26.74	-1.38	21.47	13.93	26.75	-1.38	21.47	16.78	26.73	-1.36	21.46
11.70	26.75	-1.38	21.48	14.56	26.74	-1.38	21.47	16.78	26.74	-1.37	21.47
11.71	26.74	-1.38	21.47	14.57	26.75	-1.38	21.47	16.78	26.75	-1.37	21.47
11.71	26.74	-1.38	21.47	14.57	26.74	-1.36	21.46	16.78	26.73	-1.36	21.46
11.71	26.75	-1.38	21.47	14.57	26.74	-1.38	21.47	16.78	26.74	-1.37	21.47

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

WT7 - 18-Mar-11				WT7 - 18-Mar-11				WT7 - 18-Mar-11			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t	(m)		(°C)	σ_t
16.78	26.74	-1.37	21.47	19.66	26.73	-1.35	21.46	25.51	26.71	-1.31	21.45
16.79	26.75	-1.37	21.47	19.66	26.73	-1.36	21.46	25.63	26.71	-1.28	21.44
16.79	26.73	-1.36	21.46	19.66	26.73	-1.35	21.46	25.65	26.74	-1.32	21.47
16.79	26.74	-1.37	21.47	19.66	26.73	-1.35	21.46	25.65	26.76	-1.33	21.48
17.51	26.73	-1.36	21.46	19.67	26.72	-1.35	21.45	25.65	26.76	-1.32	21.48
17.74	26.74	-1.37	21.47	19.91	26.74	-1.36	21.47	25.65	26.73	-1.32	21.46
17.75	26.74	-1.37	21.46	20.99	26.73	-1.36	21.46	25.65	26.74	-1.32	21.47
17.75	26.74	-1.37	21.47	21.56	26.72	-1.34	21.45	25.65	26.75	-1.32	21.47
17.76	26.74	-1.37	21.46	21.65	26.73	-1.35	21.46	25.65	26.74	-1.32	21.47
17.76	26.74	-1.36	21.47	21.67	26.73	-1.36	21.46	25.65	26.72	-1.30	21.45
17.76	26.74	-1.37	21.47	21.69	26.74	-1.36	21.47	25.66	26.74	-1.31	21.46
17.76	26.74	-1.36	21.46	21.70	26.74	-1.36	21.47	25.66	26.73	-1.32	21.46
17.76	26.73	-1.36	21.46	21.76	26.73	-1.35	21.46	25.66	26.74	-1.32	21.47
17.76	26.74	-1.37	21.46	21.76	26.73	-1.35	21.46	25.66	26.73	-1.32	21.46
17.76	26.74	-1.37	21.47	21.76	26.73	-1.35	21.46	25.66	26.76	-1.32	21.48
17.76	26.74	-1.36	21.46	21.76	26.73	-1.35	21.46	25.66	26.73	-1.32	21.46
17.76	26.73	-1.36	21.46	21.76	26.73	-1.35	21.46	25.66	26.75	-1.33	21.48
17.77	26.74	-1.36	21.46	21.77	26.73	-1.35	21.46	25.66	26.73	-1.32	21.46
17.77	26.74	-1.37	21.46	21.77	26.73	-1.35	21.46	25.67	26.73	-1.32	21.46
17.77	26.73	-1.36	21.46	21.77	26.73	-1.35	21.46	25.67	26.73	-1.31	21.46
17.77	26.73	-1.36	21.46	21.77	26.74	-1.36	21.46	25.67	26.73	-1.31	21.46
17.77	26.74	-1.36	21.46	21.77	26.73	-1.35	21.46	25.67	26.73	-1.31	21.46
17.77	26.74	-1.36	21.46	21.78	26.73	-1.36	21.46	25.86	26.71	-1.25	21.44
17.77	26.73	-1.36	21.46	21.78	26.73	-1.36	21.46	26.80	26.73	-1.23	21.45
17.77	26.73	-1.35	21.46	21.78	26.73	-1.36	21.46	27.56	26.71	-1.19	21.44
17.77	26.73	-1.35	21.46	21.78	26.74	-1.36	21.46	27.59	26.72	-1.20	21.45
17.77	26.74	-1.37	21.47	21.78	26.74	-1.36	21.47	27.61	26.73	-1.21	21.46
17.78	26.73	-1.37	21.46	21.78	26.75	-1.36	21.47	27.61	26.75	-1.21	21.48
17.78	26.73	-1.36	21.46	21.79	26.74	-1.36	21.47	27.62	26.76	-1.21	21.48
17.78	26.74	-1.36	21.47	22.33	26.72	-1.35	21.45	27.62	26.73	-1.21	21.46
17.78	26.73	-1.37	21.46	23.19	26.71	-1.33	21.44	27.62	26.74	-1.21	21.47
17.90	26.74	-1.37	21.46	23.51	26.73	-1.35	21.46	27.63	26.77	-1.21	21.49
18.82	26.73	-1.36	21.46	23.53	26.74	-1.35	21.47	27.63	26.73	-1.21	21.46
19.59	26.74	-1.37	21.46	23.53	26.74	-1.35	21.47	27.63	26.77	-1.22	21.49
19.63	26.73	-1.35	21.46	23.53	26.73	-1.35	21.46	27.63	26.73	-1.22	21.46
19.63	26.73	-1.36	21.46	23.54	26.74	-1.35	21.47	27.63	26.75	-1.21	21.47
19.64	26.74	-1.37	21.47	23.54	26.74	-1.35	21.47	27.63	26.78	-1.21	21.50
19.64	26.74	-1.37	21.46	23.54	26.74	-1.35	21.47	27.63	26.78	-1.21	21.50
19.64	26.73	-1.36	21.46	23.54	26.73	-1.34	21.46	27.63	26.75	-1.21	21.48
19.64	26.74	-1.36	21.47	23.54	26.73	-1.34	21.46	27.63	26.78	-1.22	21.50
19.64	26.74	-1.37	21.46	23.54	26.74	-1.35	21.46	27.63	26.77	-1.22	21.49
19.64	26.74	-1.37	21.47	23.54	26.72	-1.33	21.45	27.64	26.77	-1.21	21.49
19.64	26.73	-1.35	21.46	23.54	26.72	-1.34	21.45	27.64	26.77	-1.22	21.49
19.65	26.75	-1.37	21.47	23.54	26.72	-1.33	21.45	27.64	26.74	-1.21	21.47
19.65	26.73	-1.36	21.46	23.54	26.74	-1.35	21.46	27.64	26.76	-1.22	21.48
19.65	26.74	-1.36	21.47	23.55	26.71	-1.33	21.44	27.91	26.69	-1.16	21.43
19.65	26.74	-1.36	21.47	23.55	26.73	-1.33	21.46	28.67	26.69	-1.11	21.42
19.65	26.74	-1.37	21.47	23.55	26.73	-1.34	21.46	29.53	26.64	-1.00	21.38
19.65	26.73	-1.36	21.46	23.55	26.73	-1.34	21.46	29.55	26.73	-1.07	21.46
19.65	26.73	-1.35	21.46	23.55	26.71	-1.33	21.44	29.55	26.80	-1.10	21.51
19.65	26.72	-1.35	21.45	23.56	26.71	-1.32	21.45	29.56	26.71	-1.03	21.44
19.65	26.73	-1.36	21.46	23.65	26.73	-1.35	21.46	29.56	26.76	-1.13	21.48
19.65	26.72	-1.35	21.45	23.84	26.72	-1.34	21.45	29.56	26.74	-1.10	21.47
19.66	26.72	-1.35	21.45	24.67	26.72	-1.33	21.45	29.56	26.78	-1.11	21.49

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

WT7 - 18-Mar-11				WT7 - 18-Mar-11				WT7 - 18-Mar-11			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t	(m)		(°C)	σ_t
29.56	26.77	-1.03	21.48	33.50	26.86	-0.30	21.55	37.57	26.89	-0.19	21.57
29.56	26.71	-1.08	21.44	33.50	26.85	-0.29	21.54	37.57	26.89	-0.19	21.57
29.56	26.80	-1.10	21.51	33.50	26.85	-0.29	21.54	37.57	26.88	-0.18	21.56
29.56	26.76	-1.07	21.48	33.50	26.86	-0.30	21.55	37.57	26.88	-0.18	21.56
29.57	26.75	-1.07	21.47	33.50	26.86	-0.29	21.55	37.57	26.90	-0.19	21.58
29.57	26.78	-1.06	21.50	33.51	26.86	-0.30	21.55	37.57	26.89	-0.19	21.57
29.58	26.76	-1.07	21.48	33.51	26.84	-0.28	21.53	37.57	26.89	-0.19	21.57
29.58	26.75	-1.07	21.47	33.51	26.85	-0.29	21.54	37.57	26.89	-0.20	21.57
29.58	26.81	-1.04	21.52	33.51	26.85	-0.29	21.54	37.58	26.88	-0.17	21.56
29.58	26.82	-1.05	21.52	33.51	26.83	-0.27	21.52	37.65	26.89	-0.18	21.57
29.58	26.81	-1.04	21.52	33.51	26.84	-0.28	21.53	38.45	26.89	-0.16	21.57
29.58	26.75	-1.08	21.48	33.51	26.84	-0.29	21.53	39.23	26.88	-0.13	21.56
29.59	26.77	-1.08	21.49	33.51	26.83	-0.28	21.52	39.55	26.92	-0.17	21.60
30.03	26.63	-0.73	21.37	33.52	26.83	-0.27	21.52	39.56	26.92	-0.17	21.60
30.87	26.75	-0.62	21.47	33.52	26.86	-0.27	21.55	39.60	26.92	-0.16	21.59
31.39	26.77	-0.57	21.48	33.61	26.82	-0.27	21.52	39.60	26.92	-0.16	21.59
31.43	26.79	-0.61	21.50	34.05	26.84	-0.25	21.53	39.61	26.92	-0.16	21.59
31.44	26.77	-0.58	21.48	34.96	26.85	-0.22	21.54	39.61	26.92	-0.17	21.59
31.44	26.81	-0.62	21.51	35.57	26.86	-0.23	21.55	39.62	26.92	-0.16	21.59
31.44	26.79	-0.61	21.50	35.58	26.88	-0.25	21.56	39.62	26.89	-0.12	21.57
31.45	26.86	-0.60	21.55	35.59	26.86	-0.21	21.55	39.62	26.92	-0.15	21.59
31.45	26.78	-0.60	21.49	35.59	26.86	-0.21	21.54	39.62	26.91	-0.15	21.58
31.45	26.79	-0.60	21.49	35.59	26.88	-0.25	21.56	39.62	26.90	-0.13	21.58
31.45	26.84	-0.59	21.54	35.59	26.89	-0.25	21.57	39.62	26.90	-0.13	21.58
31.45	26.79	-0.60	21.49	35.59	26.85	-0.22	21.54	39.63	26.89	-0.12	21.57
31.45	26.80	-0.61	21.50	35.59	26.87	-0.24	21.56	39.63	26.91	-0.15	21.59
31.46	26.80	-0.57	21.51	35.59	26.86	-0.22	21.54	39.63	26.91	-0.14	21.58
31.46	26.79	-0.57	21.50	35.59	26.85	-0.21	21.54	39.63	26.90	-0.13	21.57
31.46	26.79	-0.60	21.49	35.60	26.87	-0.23	21.56	39.63	26.90	-0.13	21.57
31.46	26.82	-0.62	21.53	35.60	26.88	-0.25	21.56	39.63	26.90	-0.13	21.58
31.46	26.83	-0.58	21.53	35.60	26.85	-0.21	21.54	39.63	26.90	-0.14	21.58
31.46	26.77	-0.55	21.48	35.60	26.86	-0.22	21.55	39.64	26.91	-0.14	21.58
31.46	26.86	-0.60	21.55	35.60	26.86	-0.23	21.55	39.64	26.89	-0.12	21.57
31.46	26.78	-0.56	21.49	35.60	26.86	-0.25	21.55	39.64	26.92	-0.16	21.59
31.46	26.83	-0.57	21.53	35.60	26.86	-0.22	21.54	39.64	26.90	-0.13	21.57
31.46	26.78	-0.60	21.49	35.60	26.87	-0.24	21.56	40.19	26.92	-0.17	21.59
31.46	26.79	-0.60	21.50	35.60	26.86	-0.23	21.55	40.79	26.93	-0.16	21.60
31.46	26.78	-0.56	21.49	35.61	26.85	-0.22	21.54	41.44	26.93	-0.15	21.60
31.46	26.84	-0.59	21.54	35.61	26.88	-0.25	21.57	42.29	26.93	-0.14	21.60
31.46	26.84	-0.59	21.54	35.66	26.88	-0.24	21.57	42.79	26.94	-0.12	21.60
31.46	26.76	-0.55	21.48	36.17	26.88	-0.22	21.56	43.59	26.95	-0.11	21.61
31.46	26.82	-0.57	21.52	36.89	26.88	-0.20	21.56	44.46	26.93	-0.09	21.60
31.46	26.84	-0.59	21.54	37.52	26.89	-0.19	21.57	44.51	26.96	-0.11	21.62
31.47	26.84	-0.58	21.54	37.55	26.88	-0.18	21.56	44.51	26.96	-0.12	21.62
31.50	26.78	-0.55	21.49	37.56	26.89	-0.19	21.57	44.52	26.96	-0.12	21.62
31.67	26.75	-0.47	21.46	37.56	26.90	-0.20	21.58	44.52	26.96	-0.13	21.63
32.18	26.80	-0.38	21.50	37.56	26.88	-0.18	21.56	44.52	26.97	-0.12	21.63
32.89	26.82	-0.31	21.52	37.56	26.89	-0.19	21.57	44.52	26.95	-0.10	21.61
33.49	26.86	-0.29	21.55	37.56	26.90	-0.20	21.58	44.52	26.96	-0.11	21.62
33.49	26.86	-0.29	21.54	37.56	26.88	-0.17	21.56	44.52	26.95	-0.12	21.62
33.49	26.87	-0.30	21.55	37.56	26.91	-0.20	21.58	44.52	26.95	-0.11	21.61
33.49	26.85	-0.28	21.54	37.56	26.89	-0.19	21.57	44.53	26.94	-0.11	21.61
33.49	26.86	-0.29	21.55	37.56	26.89	-0.18	21.57	44.53	26.95	-0.11	21.62
33.49	26.86	-0.29	21.55	37.56	26.89	-0.19	21.57	44.53	26.94	-0.10	21.61
33.50	26.86	-0.29	21.55	37.57	26.89	-0.19	21.57	44.53	26.95	-0.10	21.61

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

WT7 - 18-Mar-11				WT7 - 18-Mar-11				WT8 - 18-Mar-11			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t	(m)		(°C)	σ_t
44.53	26.95	-0.11	21.62	53.51	27.00	-0.09	21.65	1.78	26.80	-1.47	21.51
44.53	26.95	-0.11	21.62	53.51	26.99	-0.08	21.65	2.54	26.78	-1.47	21.50
44.53	26.94	-0.10	21.61	53.51	26.98	-0.07	21.64	2.98	26.80	-1.47	21.51
44.53	26.96	-0.11	21.62	53.51	26.99	-0.08	21.65	3.30	26.79	-1.46	21.51
44.53	26.95	-0.11	21.62	53.52	26.98	-0.06	21.64	3.37	26.78	-1.46	21.50
44.53	26.96	-0.13	21.63	53.52	26.99	-0.07	21.65	3.39	26.78	-1.46	21.50
44.53	26.95	-0.11	21.62	53.52	26.99	-0.08	21.65	3.43	26.79	-1.46	21.51
44.53	26.95	-0.10	21.61	53.52	26.97	-0.06	21.63	3.65	26.79	-1.46	21.50
44.53	26.94	-0.10	21.61	53.52	26.98	-0.06	21.64	3.91	26.78	-1.46	21.50
44.75	26.97	-0.13	21.64	53.52	26.99	-0.08	21.65	4.23	26.77	-1.45	21.49
45.48	26.97	-0.14	21.64	53.52	26.98	-0.06	21.64	4.70	26.78	-1.45	21.50
46.35	26.96	-0.13	21.63	53.52	26.99	-0.08	21.65	5.12	26.79	-1.45	21.51
46.58	26.97	-0.12	21.63	53.52	26.99	-0.08	21.65	5.53	26.78	-1.45	21.50
46.86	26.98	-0.11	21.64	53.92	27.00	-0.10	21.66	5.75	26.78	-1.45	21.50
47.56	26.98	-0.10	21.64	54.60	27.00	-0.09	21.66	6.18	26.78	-1.45	21.50
48.29	26.98	-0.10	21.64	55.46	27.00	-0.08	21.66	6.37	26.78	-1.45	21.50
49.06	26.98	-0.09	21.64	56.50	27.01	-0.07	21.66	6.71	26.79	-1.45	21.50
49.54	26.99	-0.12	21.65	57.51	27.01	-0.06	21.66	6.96	26.78	-1.45	21.50
49.55	27.00	-0.12	21.65	58.33	27.00	-0.05	21.66	7.68	26.78	-1.45	21.50
49.55	26.99	-0.11	21.65	58.43	27.02	-0.06	21.67	7.98	26.78	-1.45	21.50
49.55	26.99	-0.12	21.65	58.44	27.00	-0.05	21.65	8.34	26.78	-1.45	21.50
49.56	26.98	-0.11	21.64	58.44	26.99	-0.04	21.65	8.68	26.79	-1.44	21.51
49.56	26.99	-0.11	21.64	58.44	26.98	-0.03	21.64	9.00	26.78	-1.44	21.50
49.57	26.97	-0.09	21.63	58.45	26.98	-0.02	21.63	9.31	26.78	-1.44	21.50
49.58	26.97	-0.09	21.63	58.45	27.01	-0.05	21.66	9.62	26.79	-1.44	21.51
49.58	26.97	-0.10	21.64	58.45	26.97	-0.01	21.63	10.00	26.78	-1.44	21.50
49.58	26.97	-0.10	21.63	58.45	27.00	-0.04	21.65	10.28	26.78	-1.44	21.50
49.59	26.98	-0.10	21.64	58.45	27.00	-0.05	21.66	10.87	26.78	-1.44	21.50
49.59	26.95	-0.07	21.61	58.45	27.00	-0.05	21.65	11.11	26.78	-1.44	21.50
49.60	26.97	-0.09	21.63	58.45	26.99	-0.03	21.65	11.50	26.78	-1.44	21.50
49.60	26.97	-0.08	21.63	58.45	26.99	-0.04	21.65	12.04	26.78	-1.44	21.50
49.60	26.98	-0.10	21.64	58.46	27.01	-0.06	21.66	12.55	26.78	-1.44	21.50
49.60	26.96	-0.08	21.63	58.46	26.98	-0.03	21.64	12.89	26.77	-1.44	21.49
49.60	26.98	-0.11	21.64	58.46	26.99	-0.03	21.64	13.00	26.78	-1.44	21.50
49.60	26.97	-0.09	21.64	58.46	26.99	-0.04	21.65	13.38	26.79	-1.44	21.51
49.61	26.97	-0.09	21.63	58.46	27.00	-0.04	21.65	13.83	26.77	-1.44	21.49
49.61	26.98	-0.11	21.64	58.46	27.01	-0.06	21.67	13.97	26.77	-1.44	21.49
49.61	26.98	-0.10	21.64	58.46	27.01	-0.06	21.66	14.36	26.77	-1.44	21.49
49.71	26.99	-0.12	21.65	58.46	27.01	-0.06	21.66	14.81	26.78	-1.44	21.50
50.53	26.99	-0.11	21.65	58.46	26.99	-0.04	21.64	15.45	26.78	-1.44	21.50
51.52	27.00	-0.10	21.65	58.46	26.97	-0.01	21.63	15.71	26.78	-1.44	21.50
52.28	27.00	-0.10	21.65	58.47	27.01	-0.06	21.67	16.43	26.78	-1.44	21.50
52.98	26.99	-0.08	21.65	58.48	27.01	-0.07	21.67	16.83	26.78	-1.44	21.50
53.41	27.00	-0.10	21.66	58.69	27.02	-0.06	21.67	17.39	26.77	-1.44	21.49
53.47	27.01	-0.09	21.66	59.47	27.02	-0.06	21.67	17.70	26.77	-1.44	21.50
53.47	27.00	-0.10	21.66	60.40	27.03	-0.05	21.68	18.17	26.77	-1.43	21.50
53.47	27.00	-0.10	21.66	61.09	27.03	-0.04	21.68	18.61	26.78	-1.43	21.50
53.49	27.00	-0.10	21.66	61.78	27.04	-0.04	21.68	19.15	26.79	-1.43	21.51
53.50	26.98	-0.07	21.64	62.41	27.02	-0.02	21.67	19.56	26.77	-1.43	21.49
53.50	26.98	-0.06	21.64	62.62	27.01	0.00	21.67	19.94	26.78	-1.43	21.50
53.50	26.98	-0.07	21.64	62.88	27.01	-0.01	21.66	20.52	26.78	-1.43	21.50
53.50	26.98	-0.06	21.64					21.04	26.78	-1.44	21.50
53.50	26.98	-0.07	21.64					21.59	26.78	-1.44	21.50
53.50	26.97	-0.06	21.63					21.94	26.79	-1.44	21.51
53.51	26.99	-0.07	21.65					22.46	26.78	-1.44	21.50
53.51	26.97	-0.05	21.63					23.75	26.81	-1.43	21.52

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

Depth (m)	Salinity	Temp (°C)	Density σ_t
24.23	26.80	-1.43	21.52
25.51	26.80	-1.43	21.52
26.18	26.80	-1.43	21.52
27.16	26.80	-1.43	21.51
27.39	26.81	-1.43	21.52
28.05	26.83	-1.42	21.54
28.45	26.82	-1.41	21.53
28.98	26.89	-1.36	21.58
29.51	26.87	-1.34	21.57
30.28	26.88	-1.28	21.58
30.93	26.86	-1.27	21.56
31.41	26.88	-1.26	21.58
31.62	26.88	-1.25	21.58
32.41	26.89	-1.21	21.59
33.32	26.97	-1.08	21.65
33.90	26.96	-0.94	21.64
34.54	27.07	-0.82	21.72
35.28	27.04	-0.65	21.70
35.76	26.97	-0.56	21.64
36.58	27.00	-0.47	21.66
37.33	27.00	-0.43	21.67
37.84	27.02	-0.40	21.68
38.26	27.04	-0.35	21.69
38.50	27.01	-0.32	21.67
38.86	27.02	-0.30	21.68
39.14	27.02	-0.30	21.68
40.04	27.01	-0.29	21.67
40.96	27.03	-0.30	21.68
41.57	27.03	-0.30	21.68
42.05	27.03	-0.31	21.69
42.66	27.05	-0.30	21.70
43.49	27.06	-0.28	21.71
44.02	27.05	-0.27	21.70
44.04	27.05	-0.26	21.70

RBW - 24-April-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
1.80	23.18	-1.40	18.58
2.11	23.20	-1.40	18.60
2.88	23.24	-1.38	18.63
3.16	23.33	-1.38	18.70
3.97	23.48	-1.40	18.83
4.26	23.49	-1.39	18.84
4.67	23.49	-1.38	18.83
4.90	23.44	-1.36	18.79
5.16	23.42	-1.39	18.78

WT2 - 21-April-11			
Depth (m)	Salinity	Temp (° C)	Density σ_t
1.51	26.00	-0.67	20.86
1.60	26.05	-0.67	20.90

WT2 - 21-April-11			
Depth		Temp	Density
(m)	Salinity	(°C)	σ_t
1.71	26.02	-0.67	20.88
1.79	26.02	-0.67	20.87
1.86	26.03	-0.67	20.88
1.98	26.07	-0.67	20.92
2.12	26.06	-0.68	20.91
2.55	26.03	-0.69	20.89

[illegible]

WT4 - 23-April-11			
Depth	Salinity	Temp	Density
(m)		(°C)	σ_t
3.89	26.85	-1.40	21.55
3.89	26.84	-1.40	21.55
3.89	26.85	-1.40	21.55
3.89	26.85	-1.40	21.55
3.89	26.84	-1.40	21.55
3.89	26.84	-1.40	21.55
3.89	26.84	-1.40	21.55
3.89	26.85	-1.40	21.55
3.89	26.84	-1.40	21.55
3.89	26.84	-1.40	21.55
3.89	26.85	-1.40	21.55
3.89	26.84	-1.40	21.55
3.89	26.85	-1.40	21.55
3.89	26.85	-1.40	21.55
3.89	26.84	-1.40	21.55
3.90	26.85	-1.40	21.55
3.90	26.85	-1.40	21.55
3.93	26.85	-1.40	21.55
4.81	26.84	-1.40	21.55
4.87	26.85	-1.40	21.55
4.87	26.85	-1.40	21.55
4.87	26.85	-1.40	21.55
4.87	26.85	-1.40	21.55
4.88	26.84	-1.40	21.55
4.88	26.85	-1.40	21.55
4.88	26.84	-1.40	21.55
4.88	26.85	-1.40	21.55
4.88	26.84	-1.40	21.55
4.88	26.84	-1.40	21.55
4.88	26.84	-1.40	21.55
4.88	26.84	-1.40	21.55
4.88	26.84	-1.40	21.55
4.88	26.84	-1.40	21.55
4.88	26.84	-1.40	21.55
4.88	26.85	-1.40	21.55
4.88	26.84	-1.40	21.55
5.65	26.84	-1.40	21.55
5.73	26.84	-1.40	21.55
5.83	26.85	-1.40	21.55
5.83	26.84	-1.40	21.55
5.84	26.84	-1.40	21.55
5.86	26.85	-1.40	21.55
5.90	26.84	-1.40	21.55
5.91	26.84	-1.40	21.55
5.91	26.84	-1.40	21.55
5.91	26.84	-1.40	21.55
5.91	26.84	-1.40	21.55
5.91	26.85	-1.40	21.55
5.92	26.84	-1.40	21.55
5.92	26.85	-1.40	21.55
5.92	26.84	-1.40	21.55
5.92	26.85	-1.40	21.55
5.92	26.84	-1.40	21.55
5.92	26.84	-1.40	21.55
5.92	26.84	-1.40	21.55
5.92	26.85	-1.40	21.55
6.76	26.84	-1.40	21.55
6.78	26.84	-1.39	21.55
6.78	26.85	-1.40	21.55
6.79	26.85	-1.40	21.55

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

WT4 - 23-April-11				WT4 - 23-April-11				WT4 - 23-April-11			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t	(m)		(°C)	σ_t
6.80	26.85	-1.40	21.55	9.50	26.85	-1.40	21.55	13.69	26.85	-1.39	21.55
6.80	26.85	-1.40	21.55	9.73	26.84	-1.40	21.55	13.69	26.85	-1.39	21.56
6.80	26.85	-1.39	21.55	9.74	26.84	-1.40	21.55	13.69	26.84	-1.40	21.55
6.80	26.84	-1.40	21.55	9.78	26.85	-1.39	21.55	13.69	26.85	-1.40	21.55
6.80	26.85	-1.40	21.55	9.78	26.85	-1.39	21.55	13.69	26.85	-1.39	21.55
6.81	26.84	-1.40	21.55	9.78	26.85	-1.39	21.55	14.25	26.84	-1.40	21.55
6.81	26.85	-1.40	21.55	9.78	26.85	-1.39	21.55	15.48	26.84	-1.40	21.55
6.81	26.85	-1.40	21.55	9.78	26.85	-1.39	21.55	15.69	26.85	-1.39	21.55
6.81	26.84	-1.39	21.55	9.79	26.84	-1.40	21.55	15.73	26.85	-1.39	21.55
6.81	26.84	-1.40	21.55	9.79	26.85	-1.39	21.55	15.77	26.85	-1.39	21.56
6.81	26.84	-1.40	21.55	9.79	26.85	-1.39	21.55	15.77	26.85	-1.40	21.56
6.82	26.84	-1.40	21.55	9.79	26.84	-1.39	21.55	15.78	26.85	-1.39	21.56
6.84	26.84	-1.40	21.55	9.79	26.84	-1.39	21.55	15.78	26.85	-1.39	21.56
6.85	26.84	-1.40	21.55	9.80	26.84	-1.39	21.55	15.78	26.85	-1.39	21.56
6.85	26.85	-1.40	21.55	9.80	26.85	-1.39	21.55	15.78	26.85	-1.39	21.56
3.89	26.84	-1.40	21.55	9.80	26.85	-1.39	21.55	15.78	26.85	-1.39	21.56
3.89	26.85	-1.40	21.55	9.80	26.85	-1.39	21.55	15.78	26.85	-1.39	21.56
3.89	26.84	-1.40	21.55	10.14	26.84	-1.40	21.55	15.78	26.85	-1.40	21.56
3.90	26.85	-1.40	21.55	10.34	26.84	-1.40	21.55	15.78	26.85	-1.40	21.55
7.77	26.84	-1.40	21.55	11.70	26.84	-1.40	21.55	15.79	26.84	-1.40	21.55
7.77	26.85	-1.40	21.55	11.72	26.84	-1.40	21.55	16.40	26.84	-1.39	21.55
7.77	26.85	-1.40	21.55	11.72	26.85	-1.40	21.55	17.63	26.85	-1.39	21.56
7.77	26.85	-1.40	21.55	11.72	26.85	-1.40	21.55	17.65	26.85	-1.39	21.56
7.78	26.85	-1.40	21.55	11.73	26.85	-1.40	21.55	17.65	26.85	-1.39	21.56
7.78	26.85	-1.40	21.55	11.73	26.84	-1.40	21.55	17.65	26.85	-1.39	21.56
7.78	26.85	-1.40	21.55	11.73	26.85	-1.40	21.55	17.65	26.85	-1.39	21.56
7.78	26.85	-1.39	21.55	11.73	26.85	-1.39	21.56	17.65	26.85	-1.39	21.56
7.78	26.85	-1.40	21.55	11.73	26.85	-1.39	21.56	17.65	26.85	-1.39	21.56
7.78	26.85	-1.40	21.55	11.73	26.85	-1.40	21.55	17.65	26.85	-1.39	21.56
7.78	26.85	-1.39	21.55	11.73	26.85	-1.39	21.56	17.66	26.85	-1.39	21.56
7.78	26.85	-1.40	21.55	11.73	26.85	-1.39	21.56	17.67	26.85	-1.39	21.55
7.78	26.84	-1.40	21.55	11.74	26.85	-1.40	21.55	17.67	26.85	-1.39	21.55
7.79	26.85	-1.40	21.55	11.74	26.85	-1.39	21.55	17.67	26.85	-1.39	21.56
7.81	26.85	-1.40	21.55	11.74	26.85	-1.39	21.56	17.67	26.85	-1.39	21.56
7.81	26.85	-1.40	21.55	11.74	26.85	-1.39	21.55	17.69	26.85	-1.39	21.55
7.97	26.84	-1.40	21.55	11.74	26.85	-1.40	21.56	17.69	26.85	-1.39	21.56
8.80	26.85	-1.40	21.55	11.74	26.85	-1.39	21.56	17.69	26.85	-1.39	21.55
8.80	26.84	-1.40	21.55	11.74	26.85	-1.40	21.55	17.69	26.83	-1.38	21.54
8.82	26.84	-1.40	21.55	11.74	26.85	-1.39	21.56	17.69	26.85	-1.39	21.55
8.83	26.84	-1.40	21.55	11.74	26.85	-1.39	21.55	17.69	26.85	-1.39	21.55
8.84	26.84	-1.40	21.55	11.74	26.85	-1.39	21.56	17.70	26.85	-1.39	21.55
8.84	26.84	-1.40	21.55	11.92	26.84	-1.40	21.55	18.51	26.83	-1.35	21.54
8.84	26.85	-1.40	21.55	13.12	26.84	-1.39	21.55	19.41	26.87	-1.36	21.57
8.84	26.85	-1.40	21.55	13.66	26.84	-1.40	21.55	19.51	26.85	-1.34	21.56
8.84	26.85	-1.40	21.55	13.68	26.85	-1.40	21.55	19.61	26.85	-1.34	21.56
8.84	26.85	-1.40	21.55	13.69	26.85	-1.40	21.55	19.61	26.86	-1.34	21.56
8.84	26.85	-1.40	21.55	13.69	26.85	-1.40	21.55	19.61	26.85	-1.34	21.56
8.84	26.85	-1.40	21.55	13.69	26.85	-1.39	21.56	19.61	26.85	-1.34	21.56
8.84	26.85	-1.40	21.55	13.69	26.85	-1.39	21.55	19.61	26.86	-1.34	21.57
8.84	26.85	-1.40	21.55	13.69	26.85	-1.40	21.56	19.61	26.86	-1.34	21.56
8.84	26.85	-1.40	21.56	13.69	26.85	-1.40	21.55	19.61	26.86	-1.34	21.57
8.85	26.85	-1.40	21.56	13.69	26.85	-1.40	21.55	19.61	26.85	-1.34	21.56
8.85	26.85	-1.40	21.55	13.69	26.85	-1.39	21.56	19.61	26.86	-1.34	21.57
8.85	26.85	-1.40	21.55	13.69	26.84	-1.40	21.55	19.61	26.86	-1.34	21.57
8.85	26.85	-1.40	21.55	13.69	26.85	-1.40	21.55	19.61	26.86	-1.34	21.57

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

WT4 - 23-April-11				WT4 - 23-April-11				WT4 - 23-April-11			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t	(m)		(°C)	σ_t
19.62	26.85	-1.34	21.56	29.52	26.88	-1.38	21.58	39.36	27.02	-0.33	21.68
19.62	26.86	-1.34	21.56	29.52	26.88	-1.38	21.58	39.36	27.01	-0.31	21.67
19.62	26.86	-1.34	21.57	29.53	26.88	-1.40	21.58	39.36	27.02	-0.32	21.67
19.62	26.86	-1.34	21.56	29.53	26.90	-1.40	21.59	39.36	27.02	-0.34	21.68
19.64	26.86	-1.34	21.56	29.53	26.90	-1.39	21.59	39.36	27.00	-0.30	21.66
20.09	26.88	-1.39	21.58	29.53	26.90	-1.40	21.60	39.36	27.02	-0.33	21.68
21.14	26.86	-1.41	21.56	29.54	26.90	-1.39	21.60	39.36	27.01	-0.31	21.67
22.29	26.85	-1.40	21.56	29.54	26.92	-1.40	21.62	39.36	27.02	-0.33	21.67
23.43	26.85	-1.39	21.56	29.54	26.90	-1.39	21.60	39.36	27.01	-0.31	21.67
24.51	26.88	-1.39	21.58	29.55	26.89	-1.39	21.59	39.36	27.00	-0.30	21.66
24.51	26.87	-1.39	21.58	29.55	26.91	-1.40	21.61	39.37	27.00	-0.30	21.66
24.51	26.86	-1.39	21.57	30.29	26.71	-1.20	21.44	40.73	27.00	-0.31	21.66
24.54	26.87	-1.40	21.57	31.56	26.65	-0.91	21.39	41.86	27.01	-0.33	21.67
24.57	26.86	-1.40	21.57	32.78	26.56	-0.42	21.31	42.83	27.01	-0.31	21.67
24.57	26.87	-1.40	21.57	33.91	27.02	-0.35	21.68	44.25	27.02	-0.30	21.67
24.57	26.89	-1.38	21.59	34.48	26.97	-0.31	21.64	44.27	27.05	-0.34	21.70
24.57	26.91	-1.38	21.60	34.48	27.01	-0.36	21.67	44.27	27.01	-0.29	21.67
24.57	26.91	-1.38	21.60	34.48	26.99	-0.33	21.65	44.30	27.05	-0.33	21.70
24.57	26.87	-1.39	21.58	34.48	26.99	-0.33	21.66	44.30	27.02	-0.31	21.68
24.58	26.89	-1.38	21.59	34.48	27.01	-0.35	21.67	44.30	27.02	-0.30	21.67
24.58	26.89	-1.39	21.59	34.49	26.99	-0.33	21.65	44.30	27.05	-0.32	21.70
24.58	26.90	-1.38	21.60	34.49	26.99	-0.33	21.66	44.30	27.02	-0.31	21.68
24.58	26.90	-1.38	21.59	34.49	27.01	-0.35	21.67	44.30	27.04	-0.32	21.69
24.58	26.91	-1.39	21.60	34.49	27.02	-0.36	21.67	44.31	27.02	-0.30	21.68
24.58	26.88	-1.39	21.58	34.49	26.98	-0.31	21.64	44.31	27.01	-0.29	21.67
24.58	26.89	-1.39	21.59	34.49	27.00	-0.34	21.66	44.61	26.99	-0.26	21.66
24.58	26.91	-1.38	21.60	34.49	27.01	-0.36	21.67	45.31	27.03	-0.25	21.69
24.58	26.90	-1.39	21.59	34.49	27.00	-0.35	21.66	46.13	27.03	-0.25	21.69
24.58	26.90	-1.38	21.60	34.49	27.01	-0.36	21.67	46.87	27.04	-0.26	21.69
24.58	26.90	-1.39	21.59	34.49	27.00	-0.34	21.66	47.94	27.05	-0.26	21.70
24.58	26.91	-1.38	21.60	34.49	26.99	-0.33	21.65	48.05	27.06	-0.27	21.71
24.58	26.88	-1.39	21.58	34.49	26.98	-0.31	21.64	48.97	27.08	-0.29	21.72
24.58	26.89	-1.39	21.59	34.49	26.98	-0.31	21.64	49.25	27.05	-0.27	21.70
24.59	26.89	-1.38	21.59	34.50	26.98	-0.31	21.64	49.27	27.05	-0.27	21.70
24.59	26.88	-1.39	21.58	34.50	26.99	-0.32	21.65	49.27	27.05	-0.25	21.70
24.59	26.91	-1.38	21.61	34.50	26.99	-0.33	21.65	49.27	27.04	-0.26	21.69
24.59	26.91	-1.38	21.61	34.50	26.98	-0.32	21.65	49.27	27.05	-0.27	21.70
24.59	26.90	-1.38	21.60	34.50	27.01	-0.36	21.67	49.27	27.04	-0.26	21.69
24.59	26.91	-1.38	21.60	34.61	26.97	-0.30	21.64	49.28	27.06	-0.27	21.71
24.59	26.91	-1.38	21.61	35.19	26.98	-0.30	21.64	49.28	27.05	-0.27	21.70
24.60	26.90	-1.39	21.60	35.33	26.99	-0.30	21.65	49.28	27.05	-0.28	21.70
25.72	26.86	-1.41	21.57	36.05	26.99	-0.31	21.65	49.28	27.05	-0.30	21.70
27.22	26.86	-1.41	21.57	36.66	26.99	-0.31	21.65	49.28	27.07	-0.31	21.72
28.31	26.86	-1.40	21.56	37.17	26.99	-0.31	21.65	49.28	27.04	-0.27	21.69
29.26	26.80	-1.33	21.51	38.03	27.01	-0.31	21.67	49.28	27.04	-0.27	21.69
29.40	26.89	-1.40	21.59	39.15	27.03	-0.34	21.69	49.28	27.04	-0.28	21.69
29.40	26.87	-1.40	21.57	39.30	27.00	-0.30	21.66	49.28	27.04	-0.27	21.70
29.40	26.87	-1.40	21.57	39.33	27.01	-0.31	21.67	49.28	27.05	-0.26	21.70
29.40	26.89	-1.40	21.59	39.34	27.01	-0.31	21.67	49.28	27.05	-0.30	21.71
29.49	26.85	-1.37	21.56	39.35	27.01	-0.31	21.67	49.28	27.05	-0.28	21.70
29.51	26.91	-1.40	21.61	39.35	27.01	-0.31	21.67	49.28	27.06	-0.30	21.71
29.51	26.91	-1.40	21.60	39.35	27.01	-0.31	21.67	49.28	27.06	-0.28	21.71
29.52	26.86	-1.38	21.57	39.35	27.02	-0.34	21.68	49.28	27.04	-0.28	21.69
29.52	26.92	-1.40	21.61	39.35	27.00	-0.30	21.66	49.28	27.04	-0.28	21.69
29.52	26.90	-1.40	21.60	39.35	27.01	-0.32	21.67	49.28	27.07	-0.29	21.72

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

Depth (m)	Salinity	Temp (°C)	Density σ_t
49.29	27.04	-0.29	21.69
49.29	27.05	-0.25	21.70
49.29	27.07	-0.29	21.72
49.29	27.05	-0.29	21.70
49.29	27.05	-0.27	21.70
49.46	27.05	-0.26	21.70
49.88	27.05	-0.26	21.70
50.12	27.04	-0.26	21.69

WT6 - 23-April-11			
Depth		Temp	Density
(m)	Salinity	(°C)	σ_t
1.56	26.84	-1.41	21.55
1.82	26.84	-1.41	21.55
1.82	26.84	-1.41	21.55
1.83	26.84	-1.41	21.55
1.83	26.84	-1.41	21.55
1.83	26.84	-1.41	21.55
1.83	26.84	-1.42	21.55
1.83	26.84	-1.42	21.55
1.83	26.84	-1.41	21.55
1.84	26.84	-1.41	21.55
1.84	26.84	-1.41	21.55
1.84	26.84	-1.41	21.55
1.84	26.84	-1.41	21.55
1.84	26.85	-1.41	21.55
1.84	26.84	-1.41	21.55
1.84	26.84	-1.41	21.55
1.84	26.84	-1.41	21.55
1.85	26.84	-1.41	21.55
1.86	26.84	-1.41	21.55
2.03	26.84	-1.41	21.55
2.81	26.84	-1.41	21.55
2.85	26.84	-1.41	21.55
2.86	26.84	-1.41	21.55
2.86	26.84	-1.41	21.55
2.86	26.84	-1.41	21.55
2.86	26.84	-1.41	21.55
2.86	26.84	-1.41	21.55
2.86	26.84	-1.41	21.55
2.87	26.84	-1.41	21.55
2.87	26.84	-1.41	21.55
2.87	26.84	-1.41	21.55
2.87	26.84	-1.41	21.55
2.87	26.84	-1.41	21.55
2.87	26.84	-1.41	21.55
2.87	26.84	-1.41	21.55
2.88	26.84	-1.41	21.55
2.88	26.84	-1.41	21.55
2.88	26.84	-1.41	21.55
2.88	26.84	-1.41	21.55
2.88	26.84	-1.41	21.55
2.88	26.84	-1.41	21.55
2.88	26.84	-1.41	21.55
2.88	26.84	-1.41	21.55
2.89	26.84	-1.41	21.55
3.29	26.84	-1.41	21.55

WT6 - 23-April-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
3.77	26.84	-1.41	21.55
3.86	26.84	-1.41	21.55
3.86	26.85	-1.41	21.55
3.92	26.84	-1.41	21.55
3.93	26.84	-1.41	21.55
3.93	26.84	-1.41	21.55
3.93	26.84	-1.41	21.55
3.93	26.85	-1.41	21.55
3.93	26.84	-1.41	21.55
3.93	26.84	-1.41	21.55
3.93	26.84	-1.41	21.55
3.94	26.84	-1.41	21.55
3.94	26.84	-1.41	21.55
3.95	26.84	-1.41	21.55
3.96	26.84	-1.41	21.55
3.97	26.84	-1.41	21.55
4.01	26.84	-1.41	21.55
4.73	26.84	-1.41	21.55
4.76	26.84	-1.41	21.55
4.77	26.84	-1.41	21.55
4.77	26.84	-1.41	21.55
4.78	26.84	-1.41	21.55
4.78	26.84	-1.41	21.55
4.79	26.84	-1.41	21.55
4.79	26.84	-1.41	21.55
4.79	26.85	-1.41	21.55
4.79	26.84	-1.41	21.55
4.79	26.84	-1.41	21.55
4.79	26.84	-1.41	21.55
4.80	26.84	-1.41	21.55
4.80	26.84	-1.41	21.55
4.80	26.84	-1.41	21.55
4.81	26.84	-1.41	21.55
5.34	26.84	-1.41	21.55
5.74	26.84	-1.41	21.55
5.75	26.84	-1.41	21.55
5.75	26.84	-1.41	21.55
5.75	26.84	-1.41	21.55
5.76	26.84	-1.41	21.55
5.76	26.84	-1.41	21.55
5.76	26.84	-1.41	21.55
5.76	26.84	-1.41	21.55
5.76	26.84	-1.41	21.55
5.76	26.84	-1.41	21.55
5.77	26.84	-1.41	21.55
5.77	26.84	-1.41	21.55
5.78	26.84	-1.41	21.55
5.78	26.84	-1.41	21.55
5.78	26.84	-1.41	21.55
5.78	26.84	-1.41	21.55
5.78	26.84	-1.41	21.55
5.79	26.84	-1.41	21.55
5.81	26.84	-1.41	21.55
5.82	26.84	-1.41	21.55
5.84	26.84	-1.41	21.55

WT6 - 23-April-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
6.73	26.85	-1.41	21.55
6.77	26.84	-1.41	21.55
6.78	26.84	-1.41	21.55
6.78	26.84	-1.41	21.55
6.79	26.84	-1.41	21.55
6.79	26.84	-1.41	21.55
6.81	26.84	-1.41	21.55
6.87	26.85	-1.41	21.55
6.87	26.85	-1.41	21.55
6.88	26.84	-1.41	21.55
6.89	26.84	-1.41	21.55
6.89	26.84	-1.41	21.55
6.89	26.84	-1.41	21.55
6.90	26.84	-1.41	21.55
7.06	26.84	-1.41	21.55
7.59	26.84	-1.41	21.55
7.78	26.84	-1.41	21.55
7.79	26.85	-1.41	21.55
7.79	26.84	-1.41	21.55
3.96	26.84	-1.41	21.55
3.97	26.84	-1.41	21.55
4.01	26.84	-1.41	21.55
4.73	26.84	-1.41	21.55
7.81	26.84	-1.41	21.55
7.81	26.84	-1.41	21.55
8.65	26.84	-1.41	21.55
8.67	26.84	-1.41	21.55
8.68	26.84	-1.41	21.55
8.68	26.84	-1.41	21.55
8.68	26.84	-1.41	21.55
8.68	26.84	-1.41	21.55
8.68	26.84	-1.41	21.55
8.68	26.84	-1.41	21.55
8.68	26.84	-1.41	21.55
8.68	26.84	-1.41	21.55
8.68	26.84	-1.41	21.55
8.69	26.84	-1.41	21.55
8.69	26.84	-1.41	21.55
8.69	26.84	-1.41	21.55
8.69	26.84	-1.41	21.55
8.69	26.84	-1.41	21.55
8.69	26.84	-1.41	21.55
8.69	26.84	-1.41	21.55
8.69	26.84	-1.41	21.55
9.10	26.84	-1.41	21.55
9.64	26.84	-1.41	21.55
9.66	26.84	-1.41	21.55
9.66	26.84	-1.41	21.55
9.67	26.84	-1.41	21.55
9.67	26.84	-1.41	21.55
9.68	26.84	-1.40	21.55
9.69	26.84	-1.41	21.55
9.69	26.84	-1.40	21.55
9.70	26.84	-1.41	21.55

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

WT6 - 23-April-11				WT6 - 23-April-11				WT6 - 23-April-11			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t	(m)		(°C)	σ_t
9.70	26.84	-1.41	21.55	15.62	26.84	-1.40	21.55	24.40	26.84	-1.38	21.55
9.70	26.84	-1.40	21.55	15.62	26.84	-1.40	21.55	24.41	26.84	-1.38	21.55
9.70	26.84	-1.40	21.55	15.62	26.84	-1.40	21.55	24.42	26.84	-1.38	21.55
9.70	26.84	-1.40	21.55	15.62	26.84	-1.39	21.55	24.42	26.85	-1.38	21.55
9.71	26.84	-1.40	21.55	15.63	26.84	-1.40	21.55	24.42	26.84	-1.37	21.55
9.71	26.84	-1.41	21.55	15.63	26.84	-1.40	21.55	24.42	26.84	-1.38	21.55
9.71	26.84	-1.41	21.55	16.59	26.84	-1.40	21.54	24.42	26.85	-1.38	21.55
9.71	26.84	-1.41	21.55	17.48	26.84	-1.39	21.54	24.43	26.85	-1.38	21.56
9.72	26.84	-1.40	21.55	17.50	26.84	-1.40	21.55	24.43	26.85	-1.37	21.55
9.74	26.84	-1.41	21.55	17.54	26.84	-1.39	21.55	24.43	26.85	-1.37	21.56
10.98	26.84	-1.41	21.55	17.54	26.84	-1.40	21.55	24.44	26.81	-1.36	21.53
11.70	26.84	-1.40	21.55	17.54	26.84	-1.40	21.55	24.44	26.85	-1.37	21.55
11.70	26.84	-1.41	21.55	17.55	26.84	-1.39	21.55	24.46	26.84	-1.37	21.55
11.71	26.84	-1.40	21.55	17.55	26.84	-1.40	21.55	24.48	26.84	-1.37	21.55
11.71	26.84	-1.41	21.55	17.55	26.84	-1.39	21.55	24.49	26.85	-1.37	21.55
11.71	26.84	-1.40	21.55	17.55	26.84	-1.40	21.55	24.50	26.83	-1.38	21.54
11.71	26.84	-1.40	21.55	17.55	26.84	-1.39	21.55	24.50	26.84	-1.37	21.55
11.71	26.84	-1.41	21.55	17.55	26.84	-1.39	21.55	24.50	26.84	-1.37	21.55
11.71	26.84	-1.40	21.55	17.56	26.84	-1.39	21.55	24.50	26.84	-1.38	21.55
11.72	26.84	-1.40	21.55	17.56	26.84	-1.40	21.55	24.50	26.84	-1.37	21.55
11.72	26.84	-1.40	21.55	17.56	26.84	-1.39	21.55	24.51	26.85	-1.36	21.56
11.72	26.84	-1.40	21.55	17.56	26.84	-1.40	21.55	24.53	26.84	-1.37	21.55
11.72	26.84	-1.41	21.55	17.56	26.84	-1.40	21.55	25.53	26.82	-1.38	21.54
11.72	26.84	-1.41	21.55	17.56	26.84	-1.40	21.55	26.61	26.82	-1.36	21.53
11.74	26.84	-1.41	21.55	17.56	26.84	-1.39	21.55	27.96	26.81	-1.33	21.53
11.80	26.84	-1.41	21.55	17.57	26.84	-1.39	21.55	29.24	26.84	-1.27	21.54
13.26	26.84	-1.40	21.55	18.06	26.83	-1.39	21.54	29.26	26.83	-1.30	21.54
13.45	26.84	-1.41	21.55	19.46	26.83	-1.38	21.54	29.31	26.92	-1.16	21.61
13.53	26.84	-1.41	21.55	19.47	26.84	-1.40	21.55	29.33	26.89	-1.24	21.59
13.55	26.84	-1.40	21.55	19.48	26.84	-1.40	21.55	29.33	26.74	-0.96	21.47
13.56	26.84	-1.41	21.55	19.48	26.85	-1.38	21.55	29.34	26.92	-1.14	21.61
13.58	26.84	-1.41	21.55	19.49	26.84	-1.39	21.55	29.36	26.85	-1.25	21.56
13.58	26.84	-1.41	21.55	19.49	26.84	-1.39	21.55	29.36	26.92	-1.25	21.61
13.59	26.84	-1.41	21.55	19.49	26.84	-1.39	21.55	29.37	26.94	-1.24	21.63
13.59	26.84	-1.40	21.55	19.49	26.85	-1.39	21.55	29.37	26.88	-1.20	21.58
13.59	26.84	-1.40	21.55	19.49	26.84	-1.39	21.55	29.37	26.91	-1.24	21.60
13.59	26.84	-1.40	21.55	19.50	26.84	-1.39	21.55	29.37	26.93	-1.24	21.62
13.59	26.84	-1.40	21.55	19.53	26.83	-1.38	21.54	29.37	26.90	-1.23	21.60
13.60	26.84	-1.40	21.55	19.53	26.84	-1.40	21.55	29.37	26.93	-1.25	21.62
13.60	26.84	-1.40	21.55	19.56	26.84	-1.40	21.55	29.38	26.88	-1.01	21.57
13.60	26.84	-1.40	21.55	19.56	26.84	-1.39	21.55	29.38	26.84	-1.02	21.54
13.60	26.84	-1.40	21.55	19.56	26.85	-1.38	21.55	29.38	26.93	-1.26	21.62
13.60	26.84	-1.40	21.55	19.56	26.85	-1.38	21.55	29.38	26.87	-1.10	21.57
13.60	26.84	-1.40	21.55	19.56	26.85	-1.38	21.55	29.39	26.84	-1.06	21.54
13.60	26.84	-1.40	21.55	19.57	26.84	-1.39	21.55	29.43	26.83	-1.14	21.54
14.23	26.84	-1.40	21.55	19.57	26.84	-1.39	21.55	29.86	26.89	-0.62	21.58
15.48	26.84	-1.40	21.55	19.57	26.85	-1.38	21.55	31.51	26.89	-0.61	21.58
15.58	26.83	-1.39	21.54	19.57	26.84	-1.39	21.55	32.97	26.90	-0.49	21.58
15.61	26.84	-1.40	21.55	19.58	26.85	-1.38	21.55	34.15	26.92	-0.47	21.60
15.61	26.84	-1.40	21.55	19.58	26.85	-1.38	21.56	34.15	26.92	-0.47	21.60
15.61	26.84	-1.40	21.55	19.58	26.85	-1.38	21.56	34.15	26.92	-0.47	21.60
15.61	26.84	-1.40	21.55	19.59	26.85	-1.38	21.56	34.16	26.91	-0.48	21.60
15.62	26.84	-1.40	21.55	20.25	26.83	-1.39	21.54	34.16	26.92	-0.47	21.60
15.62	26.84	-1.40	21.55	21.72	26.83	-1.39	21.54	34.17	26.92	-0.47	21.60
15.62	26.84	-1.40	21.55	23.06	26.82	-1.38	21.53	34.17	26.92	-0.47	21.60

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

WT6 - 23-April-11				WT6 - 23-April-11				WT6 - 23-April-11			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t	(m)		(°C)	σ_t
34.17	26.92	-0.48	21.60	44.13		-0.23	-0.17	53.10		-0.31	-0.18
34.18	26.93	-0.47	21.60	44.13		-0.22	-0.17	53.10		-0.31	-0.18
34.18	26.92	-0.48	21.60	44.13		-0.23	-0.17	53.46		-0.27	-0.18
34.18	26.92	-0.48	21.60	44.13		-0.22	-0.17	54.17		-0.26	-0.18
34.18	26.92	-0.48	21.60	44.13		-0.23	-0.17	54.29		-0.25	-0.17
34.19	26.92	-0.48	21.60	44.13		-0.24	-0.17	55.03		-0.23	-0.17
34.22	26.92	-0.47	21.60	44.13		-0.23	-0.17	56.46		-0.26	-0.18
34.23	26.92	-0.48	21.60	44.13		-0.23	-0.17	57.41		-0.24	-0.17
34.23	26.91	-0.47	21.59	44.13		-0.22	-0.17	57.51		-0.25	-0.18
34.23	26.91	-0.47	21.59	44.13		-0.22	-0.17	57.84		-0.27	-0.18
34.23	26.91	-0.47	21.59	44.13		-0.22	-0.17	57.85		-0.27	-0.18
34.23	26.92	-0.47	21.60	44.13		-0.22	-0.17	57.86		-0.27	-0.18
34.23	26.91	-0.47	21.60	44.13		-0.24	-0.17	57.86		-0.28	-0.18
34.23	26.91	-0.47	21.59	44.13		-0.23	-0.17	57.86		-0.27	-0.18
34.23	26.91	-0.47	21.59	44.14		-0.24	-0.17	57.86		-0.28	-0.18
34.23	26.92	-0.47	21.60	44.14		-0.24	-0.17	57.87		-0.27	-0.18
34.24	26.92	-0.47	21.60	44.15		-0.23	-0.17	58.04		-0.30	-0.18
34.25	26.88	-0.43	21.57	45.21		-0.24	-0.17	58.06		-0.25	-0.18
34.26	26.93	-0.48	21.61	46.45		-0.25	-0.17	58.07		-0.28	-0.18
34.26	26.93	-0.48	21.61	47.78		-0.26	-0.18	58.08		-0.26	-0.18
34.27	26.93	-0.48	21.61	48.98		-0.24	-0.17	58.08		-0.25	-0.18
34.27	26.92	-0.48	21.60	49.10		-0.23	-0.17	58.08		-0.26	-0.18
34.34	26.90	-0.47	21.59	49.11		-0.25	-0.18	58.08		-0.25	-0.18
34.36	26.90	-0.46	21.59	49.11		-0.24	-0.17	58.40		-0.25	-0.17
35.12	26.83	-0.29	21.53	49.11		-0.25	-0.17	59.30		-0.26	-0.18
36.59	26.95	-0.26	21.62	49.11		-0.25	-0.17	60.01			-0.16
37.95	26.96	-0.25	21.63	49.11		-0.23	-0.17	60.80			-0.16
39.16	26.94	-0.25	21.61	49.11		-0.24	-0.17	61.52			-0.16
39.17	26.93	-0.25	21.61	49.11		-0.25	-0.18	62.70			-0.16
39.17	26.96	-0.25	21.63	49.11		-0.25	-0.17	62.84			-0.16
39.17	26.94	-0.25	21.61	49.11		-0.26	-0.18	62.91			-0.16
39.17	26.96	-0.25	21.63	49.12		-0.23	-0.17	62.91			-0.16
39.17	26.95	-0.25	21.62	49.12		-0.25	-0.17	62.91			-0.16
39.18	26.95	-0.25	21.62	49.12		-0.25	-0.17	62.98			-0.16
39.18	26.93	-0.25	21.60	49.12		-0.26	-0.18	62.98			-0.16
39.18	26.95	-0.25	21.62	49.12		-0.25	-0.17	62.98			-0.16
39.19	26.97	-0.25	21.64	49.12		-0.24	-0.17	62.98			-0.16
39.19	26.90	-0.25	21.58	49.12		-0.25	-0.17	63.01			-0.16
39.20	26.89	-0.24	21.57	49.12		-0.25	-0.18	63.01			-0.16
39.21	26.90	-0.24	21.58	49.12		-0.25	-0.17	63.03			-0.16
39.22		-0.24	-0.17	49.13		-0.25	-0.17	63.04			-0.16
39.22		-0.24	-0.17	49.38		-0.26	-0.18	63.12			-0.16
39.22	26.91	-0.24	21.58	50.26		-0.31	-0.18	63.12			-0.16
39.42		-0.22	-0.17	51.53		-0.33	-0.18	63.12			-0.16
40.81		-0.22	-0.17	52.91		-0.34	-0.18	63.15			-0.16
42.31		-0.22	-0.17	53.02		-0.33	-0.18	63.24			-0.16
43.81		-0.23	-0.17	53.05		-0.33	-0.18	63.25			-0.16
44.07		-0.22	-0.17	53.06		-0.33	-0.18	63.25			-0.16
44.11		-0.22	-0.17	53.06		-0.33	-0.18	63.25			-0.16
44.11		-0.22	-0.17	53.06		-0.34	-0.18	63.25			-0.16
44.12		-0.23	-0.17	53.07		-0.31	-0.18	63.25			-0.16
44.12		-0.23	-0.17	53.08		-0.33	-0.18	64.61			-0.16
44.12		-0.23	-0.17	53.09		-0.31	-0.18	65.83			-0.16
44.12		-0.23	-0.17	53.09		-0.32	-0.18	65.92			-0.16
44.12		-0.23	-0.17	53.09		-0.30	-0.18	65.99			-0.16
44.12		-0.23	-0.17	53.09		-0.32	-0.18	66.00			-0.16

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

WT8 - 21-April-11				WT8 - 21-April-2011				WT2 - 20-May-11			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t	(m)		(°C)	σ_t
1.21	26.83	-1.44	21.54	28.42	26.96	-0.87	21.64	1.96	26.96	-1.45	21.65
1.67	26.87	-1.44	21.58	28.42	26.97	-0.88	21.64	1.97	26.93	-1.42	21.62
1.69	26.88	-1.44	21.58	28.43	26.96	-0.88	21.64	1.97	26.93	-1.42	21.62
1.71	26.87	-1.44	21.58	28.44	26.96	-0.90	21.64	1.97	26.93	-1.41	21.62
1.89	26.88	-1.44	21.58	28.67	26.97	-0.87	21.65	1.98	26.93	-1.41	21.62
2.29	26.88	-1.44	21.58	28.69	26.98	-0.88	21.66	1.97	26.93	-1.41	21.62
2.30	26.89	-1.45	21.59	29.70	26.96	-0.89	21.64	1.97	26.92	-1.41	21.62
2.30	26.88	-1.44	21.58	29.82	26.94	-0.84	21.62	1.97	26.93	-1.41	21.62
2.31	26.88	-1.45	21.58	31.24	26.96	-0.77	21.63	1.97	26.93	-1.41	21.62
2.38	26.87	-1.44	21.58	32.59	27.00	-0.76	21.67	1.97	26.92	-1.41	21.61
2.41	26.88	-1.44	21.58	32.59	26.98	-0.77	21.65	1.98	26.92	-1.41	21.61
3.30	26.87	-1.44	21.58	32.60	26.99	-0.76	21.67	1.97	26.92	-1.40	21.61
3.35	26.87	-1.44	21.58	32.76	27.02	-0.79	21.69	1.97	26.92	-1.40	21.61
3.36	26.88	-1.44	21.58	32.80	27.03	-0.81	21.69	1.98	26.92	-1.40	21.61
4.37	26.87	-1.44	21.58	32.87	27.00	-0.79	21.67	2.09	26.90	-1.40	21.60
5.87	26.88	-1.44	21.58	32.96	27.00	-0.77	21.67	2.17	26.91	-1.40	21.60
5.87	26.87	-1.44	21.58	33.63	26.99	-0.83	21.67	2.25	26.90	-1.40	21.60
6.52	26.88	-1.44	21.58	33.64	27.02	-0.83	21.69	2.26	26.90	-1.40	21.60
8.46	26.88	-1.44	21.58	33.64	26.98	-0.84	21.66	2.39	26.90	-1.40	21.60
8.51	26.88	-1.44	21.58	33.70	27.02	-0.87	21.69	2.45	26.90	-1.40	21.60
9.47	26.88	-1.44	21.58	33.82	27.02	-0.85	21.69				
10.78	26.89	-1.45	21.59	33.98	27.03	-0.85	21.70				
10.80	26.88	-1.44	21.58	33.99	26.99	-0.78	21.66				
10.83	26.88	-1.44	21.58	33.99	27.03	-0.82	21.70				
12.25	26.88	-1.44	21.58	34.00	27.02	-0.87	21.69				
13.01	26.87	-1.43	21.58	34.04	26.99	-0.85	21.67				
13.02	26.89	-1.44	21.59	34.56	27.02	-0.73	21.69				
13.04	26.86	-1.41	21.56	35.22	27.02	-0.72	21.69				
14.15	26.90	-1.39	21.59	35.83	27.03	-0.72	21.70				
14.88	26.90	-1.40	21.60	36.98	26.96	-0.74	21.64				
14.89	26.90	-1.39	21.59	37.33		-0.70					
14.89	26.90	-1.40	21.60	37.36		-0.69					
14.99	26.90	-1.40	21.60	37.56		-0.68					
16.98	26.89	-1.41	21.59	37.67		-0.83					
17.00	26.89	-1.40	21.59	37.76		-0.61					
17.02	26.90	-1.41	21.60	37.80		-0.60					
17.06	26.88	-1.39	21.58	37.81		-0.72					
17.06	26.90	-1.41	21.60	37.82		-0.76					
17.07	26.90	-1.42	21.60	37.83		-0.82					
17.79	26.85	-1.36	21.56	37.84		-0.68					
19.21	26.80	-1.27	21.52	37.87		-0.79					
21.52	26.78	-0.97	21.50	37.87		-0.74					
22.71	26.93	-0.92	21.62	38.39		-0.62					
22.72	26.94	-0.95	21.62	38.72		-0.62					
22.73	26.94	-0.96	21.62	39.37		-0.64					
22.73	26.94	-0.94	21.62	40.75		-0.76					
22.75	26.92	-0.90	21.61	40.79		-0.67					
22.95	26.89	-0.85	21.58								
23.84	26.96	-0.81	21.64								
25.93	26.98	-0.84	21.66								
27.95	26.97	-0.87	21.65								
28.12	27.00	-0.89	21.67								
28.39	26.97	-0.87	21.65								
28.41	26.96	-0.87	21.64								
28.41	26.96	-0.87	21.64								

WT2 - 20-May-11			
Depth	Salinity	Temp	Density
(m)		(°C)	σ_t
1.46	27.00	-1.48	21.68
1.66	26.94	-1.47	21.63
1.90	26.96	-1.47	21.65

WT3 - 20-May-11			
Depth	Salinity	Temp	Density
(m)		(°C)	σ_t
1.79	26.49	-0.83	21.26
1.80	26.62	-1.09	21.37
1.79	26.75	-1.19	21.47
1.84	26.85	-1.24	21.56
1.94	26.85	-1.25	21.56
2.03	26.84	-1.27	21.55
2.03	26.86	-1.28	21.57
2.18	26.88	-1.28	21.58
2.18	26.88	-1.28	21.58
2.20	26.92	-1.28	21.61
2.18	26.92	-1.28	21.61
2.16	26.92	-1.28	21.61
2.16	26.97	-1.28	21.65
2.16	26.99	-1.27	21.67
2.17	27.02	-1.26	21.69
2.17	27.04	-1.26	21.71
2.17	27.06	-1.25	21.72
2.17	27.08	-1.24	21.74
2.17	27.11	-1.26	21.76
2.18	27.00	-1.27	21.68
2.18	27.08	-1.29	21.74
2.18	27.12	-1.29	21.77
2.17	27.15	-1.28	21.80
2.17	27.17	-1.27	21.82
2.18	27.19	-1.26	21.83
2.17	26.88	-1.28	21.58
2.17	26.89	-1.29	21.59
2.16	26.90	-1.30	21.60
2.18	26.88	-1.30	21.58
2.18	26.89	-1.30	21.59

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

WT3 - 20-May-2011			
Depth	Salinity	Temp	Density
(m)		(°C)	σ_t
2.18	26.89	-1.30	21.59
2.19	26.88	-1.30	21.58
2.19	26.90	-1.30	21.60
2.12	26.86	-1.30	21.56
2.42	26.85	-1.30	21.55
2.51	26.85	-1.31	21.55
2.91	26.85	-1.31	21.56
3.34	26.86	-1.31	21.56
3.78	26.85	-1.31	21.56
4.12	26.86	-1.31	21.56
4.44	26.85	-1.31	21.56
4.82	26.86	-1.31	21.56
5.13	26.86	-1.31	21.57
5.41	26.88	-1.30	21.58
5.68	26.87	-1.29	21.57
6.11	26.85	-1.29	21.56
6.57	26.86	-1.29	21.56
7.04	26.86	-1.28	21.56
7.33	26.86	-1.28	21.56
7.65	26.87	-1.28	21.57
7.98	26.87	-1.28	21.57
8.31	26.86	-1.27	21.56
8.59	26.86	-1.27	21.57
8.93	26.86	-1.27	21.56
9.28	26.86	-1.27	21.56
9.92	26.87	-1.26	21.57
10.25	26.86	-1.25	21.57
10.67	26.86	-1.25	21.57
11.11	26.87	-1.24	21.58
11.52	26.87	-1.23	21.57

WT4 - 20-May-2011			
Depth	Salinity	Temp	Density
(m)		(°C)	σ_t
1.73	26.54	-0.97	21.30
1.92	26.68	-1.11	21.42
1.98	26.74	-1.20	21.46
1.93	26.79	-1.23	21.50
1.93	26.83	-1.23	21.54
1.93	26.85	-1.23	21.56
1.92	26.84	-1.23	21.55
1.97	26.82	-1.24	21.53
1.99	26.87	-1.25	21.57
2.12	26.82	-1.24	21.53
2.13	26.80	-1.25	21.51
2.13	26.80	-1.27	21.51
2.32	26.82	-1.29	21.53
2.44	26.82	-1.30	21.53
2.50	26.82	-1.30	21.54
2.61	26.83	-1.30	21.54
2.72	26.83	-1.31	21.54
2.86	26.83	-1.31	21.54
2.98	26.83	-1.31	21.54
3.07	26.83	-1.31	21.54

WT4 - 20-May-2011			
Depth	Salinity	Temp	Density
(m)		(°C)	σ_t
3.20	26.83	-1.31	21.54
3.34	26.84	-1.32	21.54
3.48	26.84	-1.32	21.55
3.56	26.85	-1.32	21.56
3.61	26.87	-1.31	21.57
3.55	26.86	-1.31	21.56
3.56	26.89	-1.31	21.59
3.57	26.90	-1.30	21.60
3.07	26.83	-1.30	21.54
2.43	26.84	-1.31	21.54
2.35	26.85	-1.32	21.55
2.35	26.85	-1.31	21.56
2.36	26.86	-1.30	21.56
2.36	26.87	-1.30	21.58
2.35	26.88	-1.30	21.58
2.36	26.90	-1.30	21.60
2.35	26.91	-1.31	21.61
2.35	26.92	-1.31	21.62
2.36	26.93	-1.30	21.62
2.35	26.94	-1.29	21.63
2.35	26.95	-1.28	21.64
2.36	26.96	-1.28	21.64
2.36	26.97	-1.28	21.65
2.36	26.98	-1.27	21.66
2.24	26.85	-1.28	21.56
2.31	26.85	-1.30	21.56
2.57	26.85	-1.31	21.55
2.81	26.86	-1.32	21.56
2.99	26.86	-1.32	21.57
3.12	26.86	-1.32	21.56
3.40	26.85	-1.32	21.55
3.62	26.84	-1.32	21.55
3.91	26.85	-1.33	21.56
4.21	26.85	-1.33	21.56
4.62	26.85	-1.33	21.55
4.95	26.85	-1.34	21.56
5.11	26.86	-1.34	21.56
5.38	26.85	-1.35	21.56
5.79	26.85	-1.35	21.56
6.07	26.86	-1.35	21.56
6.42	26.85	-1.35	21.56
6.53	26.86	-1.35	21.57
6.75	26.86	-1.35	21.56
7.13	26.86	-1.35	21.56
7.50	26.86	-1.35	21.56
7.69	26.85	-1.35	21.56
8.15	26.86	-1.35	21.56
8.62	26.85	-1.35	21.56
9.07	26.86	-1.35	21.56
9.46	26.86	-1.35	21.56
9.73	26.86	-1.35	21.57
10.06	26.85	-1.35	21.56
10.42	26.86	-1.35	21.56
10.68	26.86	-1.35	21.56
11.05	26.86	-1.35	21.56

WT4 - 20-May-2011			
Depth	Salinity	Temp	Density
(m)		(°C)	σ_t
11.41	26.86	-1.36	21.57
11.83	26.86	-1.36	21.56
12.19	26.86	-1.36	21.57
12.62	26.86	-1.35	21.57
13.03	26.86	-1.36	21.57
13.47	26.86	-1.36	21.57
13.91	26.86	-1.36	21.56
14.34	26.86	-1.36	21.56
14.76	26.86	-1.36	21.57
15.24	26.88	-1.36	21.58
15.69	26.93	-1.33	21.62
16.14	26.94	-1.26	21.63
16.45	26.91	-1.20	21.61
16.47	26.89	-1.17	21.59
16.46	26.88	-1.16	21.58
16.47	26.88	-1.18	21.58
16.34	26.88	-1.18	21.58
16.51	26.89	-1.18	21.59
16.80	26.90	-1.16	21.59
17.30	26.94	-1.13	21.63
17.78	26.94	-1.05	21.63
18.33	26.98	-1.01	21.65
18.85	26.95	-0.95	21.63
19.23	26.98	-0.89	21.65
19.58	27.00	-0.83	21.67
20.12	26.97	-0.75	21.65
20.48	26.94	-0.71	21.62
20.75	26.93	-0.69	21.62
21.09	26.90	-0.68	21.59
21.79	26.76	-0.75	21.47
22.37	26.87	-0.88	21.57
22.93	26.91	-0.91	21.60
23.66	26.91	-0.92	21.60
24.18	26.91	-0.94	21.60
24.69	26.93	-0.91	21.62
25.23	26.95	-0.89	21.64
25.69	26.94	-0.83	21.62
26.12	27.05	-0.71	21.71
26.66	27.12	-0.61	21.76
4.95	26.85	-1.34	21.56
5.11	26.86	-1.34	21.56
5.38	26.85	-1.35	21.56
5.79	26.85	-1.35	21.56
6.07	26.86	-1.35	21.56
6.42	26.85	-1.35	21.56
6.53	26.86	-1.35	21.57
6.75	26.86	-1.35	21.56
7.13	26.86	-1.35	21.56
7.50	26.86	-1.35	21.56
7.69	26.85	-1.35	21.56
8.15	26.86	-1.35	21.56
8.62	26.85	-1.35	21.56
9.07	26.86	-1.35	21.56
9.46	26.86	-1.35	21.56
9.73	26.86	-1.35	21.57
10.06	26.85	-1.35	21.56
10.42	26.86	-1.35	21.56
10.68	26.86	-1.35	21.56
11.05	26.86	-1.35	21.56

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

WT4 - 20-May-2011				WT5 - 20-May-2011				WT5 - 20-May-2011			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t	(m)		(°C)	σ_t
33.92	26.98	-0.39	21.65	3.06	26.86	-1.34	21.56	21.99	26.91	-1.29	21.60
34.48	27.01	-0.37	21.67	3.35	26.86	-1.34	21.56	22.75	26.94	-1.26	21.62
34.95	27.01	-0.35	21.67	3.54	26.86	-1.34	21.56	23.31	26.90	-1.24	21.60
34.96	26.99	-0.34	21.65	3.83	26.86	-1.35	21.57	23.88	26.90	-1.24	21.60
35.52	26.99	-0.34	21.66	4.10	26.86	-1.35	21.57	24.41	26.91	-1.23	21.60
35.93	26.98	-0.35	21.64	4.36	26.86	-1.35	21.57	25.05	26.97	-1.22	21.65
36.35	26.98	-0.37	21.65	4.64	26.87	-1.35	21.57	25.66	26.97	-1.16	21.65
36.74	26.98	-0.38	21.64	4.87	26.87	-1.35	21.57	25.94	27.05	-1.12	21.71
37.32	26.97	-0.41	21.64	4.87	26.87	-1.35	21.57	26.47	27.10	-1.00	21.75
37.85	27.00	-0.41	21.66	4.89	26.87	-1.34	21.58	27.04	27.06	-0.81	21.72
38.13	26.99	-0.41	21.65	4.89	26.87	-1.34	21.57	27.75	27.01	-0.74	21.68
38.85	27.03	-0.40	21.69	4.89	26.88	-1.33	21.58	28.33	26.99	-0.69	21.66
39.41	27.02	-0.37	21.68	5.13	26.86	-1.34	21.56	28.85	27.03	-0.64	21.69
39.76	27.01	-0.36	21.67	5.36	26.86	-1.34	21.57	29.66	27.05	-0.53	21.70
40.23	27.01	-0.36	21.67	5.64	26.86	-1.34	21.57	30.53	27.02	-0.46	21.68
40.62	27.03	-0.35	21.69	5.86	26.86	-1.34	21.57	31.24	27.01	-0.42	21.67
40.60	27.01	-0.34	21.67	5.97	26.86	-1.35	21.57	32.03	27.01	-0.39	21.67
41.29	27.03	-0.32	21.68	6.29	26.86	-1.35	21.56	32.83	27.00	-0.36	21.66
41.63	27.02	-0.31	21.67	6.53	26.86	-1.35	21.57	33.47	26.98	-0.35	21.65
42.14	27.01	-0.31	21.67	6.81	26.86	-1.35	21.57	34.29	26.97	-0.37	21.64
42.44	27.01	-0.31	21.67	7.11	26.87	-1.35	21.57	35.07	27.00	-0.37	21.66
42.66	27.02	-0.30	21.67	7.43	26.87	-1.35	21.57	36.04	27.00	-0.37	21.66
43.28	27.00	-0.31	21.66	7.72	26.87	-1.35	21.57	36.75	27.02	-0.36	21.68
43.76	27.02	-0.32	21.68	7.99	26.86	-1.35	21.57	37.61	27.02	-0.34	21.68
44.36	27.02	-0.31	21.68	8.30	26.87	-1.35	21.57	38.46	27.01	-0.32	21.67
45.08	27.02	-0.32	21.68	8.54	26.87	-1.35	21.57	39.26	27.03	-0.31	21.69
45.76	27.03	-0.31	21.69	8.76	26.87	-1.35	21.57	40.11	27.00	-0.30	21.66
46.40	27.03	-0.30	21.69	8.75	26.86	-1.35	21.57	41.05	27.00	-0.32	21.66
46.92	27.03	-0.30	21.68	8.79	26.86	-1.35	21.57	41.81	27.01	-0.32	21.67
47.39	27.02	-0.30	21.68	8.81	26.87	-1.35	21.57	42.34	27.01	-0.32	21.67
48.06	27.03	-0.30	21.68	8.87	26.87	-1.35	21.57	43.14	27.02	-0.31	21.68
48.65	27.02	-0.30	21.68	8.97	26.87	-1.35	21.57	43.98	27.02	-0.30	21.68
49.13	27.03	-0.30	21.69	9.03	26.87	-1.34	21.57	44.39	27.02	-0.29	21.68
				9.09	26.87	-1.34	21.57	44.96	27.00	-0.30	21.66
				9.17	26.88	-1.34	21.58	45.42	27.03	-0.32	21.69
				9.24	26.89	-1.34	21.59	45.93	27.02	-0.31	21.68
				9.34	26.88	-1.33	21.58	46.39	27.02	-0.31	21.67
				9.49	26.87	-1.32	21.57	46.66	27.02	-0.31	21.68
				9.91	26.87	-1.30	21.57	46.99	27.02	-0.31	21.68
				10.15	26.87	-1.30	21.57	47.35	27.02	-0.31	21.68
				10.59	26.88	-1.28	21.58	47.68	27.03	-0.31	21.68
				11.26	26.90	-1.28	21.60	48.16	27.03	-0.30	21.68
				11.62	26.90	-1.25	21.59	9.91	26.87	-1.30	21.57
				11.97	26.89	-1.24	21.58	10.15	26.87	-1.30	21.57
				12.78	26.78	-1.25	21.50	10.59	26.88	-1.28	21.58
				13.60	26.83	-1.33	21.54	11.26	26.90	-1.28	21.60
				14.34	26.87	-1.36	21.57	50.37	27.04	-0.27	21.70
				15.29	26.86	-1.34	21.56	50.76	27.04	-0.26	21.69
				16.04	26.89	-1.35	21.58	50.97	27.04	-0.26	21.69
				17.10	26.88	-1.27	21.58	51.33	27.03	-0.25	21.69
				17.85	26.88	-1.28	21.58	51.73	27.01	-0.26	21.67
				18.53	26.88	-1.30	21.58	52.12	27.01	-0.28	21.67
				19.31	26.89	-1.30	21.59	52.58	27.03	-0.29	21.69
				20.38	26.90	-1.30	21.59	53.06	27.03	-0.29	21.68
				21.02	26.89	-1.30	21.59	53.44	27.04	-0.30	21.69

WT5 - 20-May-2011			
Depth	Salinity	Temp	Density
(m)		(°C)	σ_t
1.64	26.81	-1.31	21.53
1.97	26.84	-1.32	21.54
2.34	26.84	-1.32	21.55
2.32	26.85	-1.31	21.55
2.30	26.85	-1.31	21.55
2.55	26.84	-1.32	21.55
2.58	26.85	-1.32	21.55
2.62	26.86	-1.32	21.56
2.63	26.86	-1.32	21.56
2.64	26.86	-1.31	21.57
2.65	26.87	-1.31	21.57
2.65	26.87	-1.30	21.57
2.67	26.84	-1.30	21.54
2.68	26.84	-1.32	21.55
2.68	26.85	-1.33	21.56
2.61	26.85	-1.33	21.56
2.70	26.86	-1.34	21.56

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

WT5 - 20-May-2011			
Depth	Salinity	Temp	Density
(m)		(°C)	σ_t
54.00	27.05	-0.29	21.70
54.47	27.04	-0.29	21.70
54.84	27.04	-0.28	21.69
55.18	27.04	-0.28	21.69
55.69	27.05	-0.29	21.70
56.09	27.05	-0.28	21.70
56.60	27.05	-0.27	21.70
57.12	27.05	-0.26	21.70
57.63	27.05	-0.26	21.70
58.11	27.05	-0.26	21.70

WT6 - 20-May-2011			
Depth	Salinity	Temp	Density
(m)		(°C)	σ_t
1.57	26.48	-0.90	21.25
1.86	26.51	-0.91	21.27
2.13	26.53	-0.93	21.29
2.29	26.54	-0.94	21.30
2.31	26.56	-0.93	21.32
2.35	26.54	-0.93	21.30
2.01	26.51	-0.93	21.28
2.08	26.56	-0.97	21.32
2.05	26.57	-0.97	21.33
2.07	26.58	-0.93	21.33
2.07	26.58	-0.89	21.33
2.08	26.54	-0.86	21.30
2.09	26.57	-0.85	21.32
2.09	26.56	-0.81	21.31
2.10	26.56	-0.78	21.32
2.09	26.56	-0.75	21.32
2.10	26.58	-0.75	21.33
2.10	26.55	-0.70	21.31
2.10	26.56	-0.69	21.31
2.11	26.56	-0.66	21.31
1.99	26.42	-0.82	21.20
2.08	26.56	-0.97	21.32
2.08	26.60	-1.01	21.35
2.14	26.59	-1.02	21.35
2.49	26.61	-1.04	21.36
2.79	26.61	-1.04	21.35
3.05	26.61	-1.05	21.36
3.14	26.63	-1.05	21.38
3.11	26.61	-1.03	21.36
3.26	26.63	-1.04	21.37
3.24	26.60	-1.03	21.35
3.32	26.63	-1.06	21.38
3.66	26.63	-1.08	21.38
3.93	26.65	-1.09	21.39
4.12	26.65	-1.10	21.39
4.19	26.67	-1.10	21.41
4.22	26.67	-1.09	21.41
4.43	26.66	-1.10	21.40
4.66	26.67	-1.11	21.40

WT6 - 20-May-2011			
Depth	Salinity	Temp	Density
(m)		(°C)	σ_t
4.97	26.67	-1.12	21.41
5.22	26.67	-1.12	21.41
5.50	26.67	-1.12	21.41
5.61	26.67	-1.11	21.40
5.71	26.68	-1.12	21.42
5.72	26.67	-1.10	21.41
5.82	26.65	-1.09	21.39
6.08	26.66	-1.11	21.40
6.10	26.68	-1.12	21.42
6.26	26.67	-1.12	21.40
6.27	26.69	-1.13	21.42
6.28	26.68	-1.10	21.42
6.29	26.67	-1.10	21.41
6.30	26.67	-1.08	21.41
6.42	26.65	-1.11	21.40
6.99	26.68	-1.14	21.41
7.34	26.68	-1.13	21.42
7.49	26.68	-1.12	21.42
7.76	26.69	-1.14	21.42
8.07	26.69	-1.15	21.43
8.28	26.71	-1.16	21.44
8.50	26.70	-1.16	21.43
8.67	26.71	-1.17	21.44
8.86	26.71	-1.17	21.44
9.08	26.71	-1.17	21.44
9.15	26.70	-1.14	21.43
9.40	26.70	-1.16	21.43
9.70	26.71	-1.17	21.44
9.74	26.73	-1.18	21.46
9.97	26.72	-1.19	21.45
10.25	26.73	-1.20	21.46
10.55	26.74	-1.20	21.46
10.82	26.74	-1.20	21.46
11.09	26.74	-1.21	21.47
11.47	26.75	-1.21	21.47
11.88	26.75	-1.22	21.47
12.19	26.75	-1.22	21.48
12.44	26.76	-1.22	21.48
12.85	26.76	-1.22	21.48
13.19	26.76	-1.22	21.48
13.51	26.76	-1.22	21.48
13.72	26.77	-1.22	21.49
13.98	26.76	-1.22	21.48
14.16	26.76	-1.22	21.48
14.52	26.76	-1.22	21.49
14.86	26.79	-1.22	21.50
15.17	26.79	-1.21	21.50
15.56	26.78	-1.20	21.50
16.00	26.79	-1.19	21.50
16.25	26.79	-1.18	21.50
16.69	26.87	-1.16	21.57
17.01	26.84	-1.10	21.54
17.35	26.80	-1.07	21.51
17.62	26.75	-1.09	21.47

WT6 - 20-May-2011			
Depth	Salinity	Temp	Density
(m)		(°C)	σ_t
18.02	26.77	-1.14	21.49
18.27	26.81	-1.16	21.52
18.60	26.80	-1.15	21.51
18.97	26.78	-1.15	21.50
19.03	26.79	-1.16	21.50
19.25	26.78	-1.17	21.50
19.47	26.79	-1.19	21.50
19.80	26.83	-1.19	21.53
20.10	26.81	-1.18	21.52
20.28	26.79	-1.18	21.50
20.63	26.80	-1.21	21.51
20.84	26.84	-1.20	21.55
21.21	26.92	-1.12	21.61
21.42	26.89	-1.04	21.58
21.65	26.90	-0.98	21.60
21.96	26.85	-0.93	21.55
22.38	26.83	-0.93	21.54
22.65	26.85	-0.93	21.55
22.91	26.86	-0.92	21.56
23.22	26.87	-0.91	21.57
23.47	26.86	-0.88	21.56
25.32	26.92	-0.61	21.60
25.64	26.90	-0.58	21.59
25.97	26.89	-0.56	21.58
26.18	26.89	-0.55	21.58
26.49	26.91	-0.55	21.59
26.77	26.83	-0.53	21.53
27.08	26.87	-0.59	21.57
27.36	26.93	-0.58	21.61
27.41	26.89	-0.54	21.58
27.80	26.85	-0.55	21.54
28.14	26.91	-0.57	21.60
28.60	26.95	-0.54	21.63
28.85	26.97	-0.49	21.64
29.25	26.96	-0.42	21.63
29.60	26.97	-0.39	21.64
30.05	26.95	-0.35	21.62
30.38	26.94	-0.33	21.62
30.74	26.91	-0.31	21.59
31.01	26.91	-0.33	21.59
31.25	26.93	-0.34	21.61
31.54	26.95	-0.34	21.62
31.84	26.94	-0.33	21.61
32.15	26.94	-0.32	21.61
32.49	26.93	-0.32	21.61
32.66	26.94	-0.32	21.61
32.85	26.94	-0.32	21.61
33.25	26.94	-0.32	21.61
33.55	26.94	-0.32	21.61
33.92	26.93	-0.32	21.60
34.27	26.92	-0.33	21.60
34.59	26.94	-0.36	21.61
34.99	26.94	-0.36	21.61
35.30	26.94	-0.37	21.61

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

WT6 - 20-May-2011				WT6 - 20-May-2011				WT7 - 20-May-2011			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t	(m)		(°C)	σ_t
35.61	26.94	-0.37	21.61	57.51	27.03	-0.29	21.69	2.59	26.86	-1.27	21.57
35.99	26.95	-0.38	21.62	57.93	27.02	-0.30	21.68	2.61	26.88	-1.26	21.58
36.11	26.95	-0.38	21.62	58.20	27.02	-0.31	21.67	2.61	26.89	-1.26	21.59
36.28	26.95	-0.37	21.63	58.47	27.00	-0.31	21.66	2.61	26.90	-1.25	21.60
36.56	26.96	-0.36	21.63	58.76	27.02	-0.33	21.68	2.61	26.91	-1.25	21.60
36.74	26.95	-0.35	21.62	59.23	27.03	-0.34	21.69	2.63	26.89	-1.25	21.59
36.82	26.94	-0.35	21.62	59.60	27.05	-0.33	21.70	2.65	26.91	-1.23	21.60
37.13	26.93	-0.35	21.60	59.96	27.06	-0.31	21.71	2.65	26.93	-1.22	21.62
37.32	26.92	-0.37	21.60	60.35	27.06	-0.29	21.71	2.65	26.93	-1.20	21.62
37.61	26.94	-0.39	21.61	60.72	27.06	-0.27	21.71	2.65	26.95	-1.20	21.64
37.96	26.94	-0.41	21.62	61.17	27.04	-0.25	21.69	2.65	26.97	-1.19	21.65
38.35	26.98	-0.39	21.64	61.58	27.03	-0.25	21.68	2.67	26.97	-1.19	21.65
38.89	26.98	-0.37	21.65	61.93	27.03	-0.26	21.68	2.67	26.84	-1.21	21.55
39.23	26.94	-0.35	21.62	62.15	27.03	-0.26	21.68	2.85	26.84	-1.23	21.54
39.60	26.93	-0.37	21.61	62.44	27.03	-0.27	21.68	2.89	26.86	-1.25	21.56
39.97	26.96	-0.40	21.63	62.74	27.03	-0.28	21.68	3.33	26.81	-1.27	21.52
40.46	26.93	-0.41	21.61	63.13	27.06	-0.29	21.71	3.52	26.83	-1.28	21.54
40.90	26.92	-0.44	21.60	63.52	27.06	-0.26	21.71	3.68	26.82	-1.28	21.53
41.17	26.93	-0.48	21.61	63.91	27.03	-0.26	21.68	3.89	26.83	-1.29	21.54
41.61	26.94	-0.52	21.62	64.22	27.04	-0.27	21.69	4.19	26.83	-1.29	21.54
41.78	26.94	-0.53	21.62	64.42	27.05	-0.27	21.70	4.49	26.83	-1.30	21.54
42.26	26.95	-0.55	21.63	64.51	27.05	-0.27	21.70	4.73	26.83	-1.30	21.54
43.32	27.02	-0.51	21.68	64.81	27.05	-0.26	21.70	4.99	26.83	-1.30	21.54
43.66	27.03	-0.47	21.69					5.27	26.83	-1.30	21.54
44.20	27.00	-0.41	21.66					5.54	26.83	-1.30	21.54
44.61	26.97	-0.40	21.64					5.94	26.83	-1.31	21.54
45.08	26.94	-0.41	21.61					6.27	26.83	-1.31	21.54
45.53	26.95	-0.46	21.63					6.57	26.84	-1.31	21.55
45.92	27.01	-0.46	21.67					7.28	26.84	-1.31	21.55
46.42	27.00	-0.42	21.66					7.51	26.84	-1.32	21.55
46.79	27.01	-0.41	21.68					7.69	26.84	-1.32	21.55
47.39	27.04	-0.38	21.69					7.96	26.84	-1.31	21.55
47.98	27.04	-0.34	21.69					8.23	26.84	-1.31	21.55
48.41	27.01	-0.31	21.67					8.53	26.84	-1.31	21.55
48.84	27.01	-0.29	21.67					8.81	26.84	-1.32	21.55
49.40	27.01	-0.29	21.67					9.13	26.84	-1.32	21.55
49.87	27.01	-0.29	21.67					9.48	26.84	-1.32	21.55
50.41	27.00	-0.28	21.66					9.73	26.84	-1.32	21.55
50.88	27.00	-0.29	21.66					10.10	26.84	-1.32	21.55
51.24	27.00	-0.29	21.66					10.30	26.84	-1.32	21.55
51.77	27.00	-0.30	21.66					10.55	26.84	-1.32	21.55
52.16	27.00	-0.31	21.66					10.87	26.85	-1.32	21.55
52.57	27.00	-0.31	21.66					11.20	26.84	-1.33	21.55
52.87	27.01	-0.31	21.67					11.38	26.84	-1.33	21.55
53.21	27.01	-0.31	21.67					11.53	26.84	-1.33	21.55
53.63	27.02	-0.31	21.68					11.71	26.84	-1.33	21.55
53.95	27.03	-0.29	21.68					12.10	26.84	-1.33	21.55
54.37	27.03	-0.27	21.69					12.39	26.84	-1.33	21.55
54.71	27.02	-0.26	21.68					12.71	26.84	-1.33	21.55
55.12	27.00	-0.27	21.66					13.02	26.84	-1.33	21.55
55.46	26.99	-0.29	21.66					13.29	26.86	-1.32	21.56
55.95	27.00	-0.32	21.66					13.53	26.84	-1.32	21.55
56.22	27.02	-0.33	21.67					13.71	26.85	-1.32	21.55
56.64	27.04	-0.32	21.69					14.06	26.84	-1.32	21.55
57.18	27.04	-0.30	21.69					14.35	26.88	-1.32	21.58

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

WT7 - 20-May-2011				WT7 - 20-May-2011				WT7 - 20-May-2011			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t	(m)		(°C)	σ_t
14.51	26.86	-1.29	21.56	28.43	26.95	-0.44	21.63	53.21	27.04	-0.28	21.69
14.58	26.86	-1.29	21.56	28.42	26.95	-0.43	21.62	53.54	27.03	-0.27	21.69
14.56	26.86	-1.29	21.56	28.77	26.96	-0.43	21.63	54.02	27.02	-0.27	21.68
14.57	26.86	-1.28	21.56	29.11	26.95	-0.42	21.62	54.29	27.02	-0.27	21.67
14.58	26.86	-1.28	21.57	29.42	26.95	-0.41	21.62	54.68	26.99	-0.29	21.65
14.52	26.86	-1.28	21.56	29.87	26.94	-0.41	21.62	54.83	27.01	-0.32	21.67
14.66	26.85	-1.28	21.56	30.29	26.95	-0.41	21.62	54.99	27.01	-0.32	21.67
14.92	26.85	-1.27	21.55	30.71	26.98	-0.41	21.65	55.16	27.01	-0.33	21.67
15.21	26.85	-1.28	21.56	31.07	26.98	-0.38	21.65	55.42	27.01	-0.34	21.67
15.30	26.86	-1.28	21.57	31.49	27.02	-0.33	21.68	55.98	26.98	-0.37	21.65
15.55	26.86	-1.27	21.56	31.93	26.98	-0.29	21.64	56.56	27.01	-0.41	21.67
15.83	26.85	-1.27	21.55	32.32	27.01	-0.28	21.67	56.97	27.08	-0.41	21.73
16.05	26.85	-1.27	21.55	32.77	27.02	-0.23	21.67	57.18	27.06	-0.37	21.71
16.26	26.86	-1.27	21.56	33.28	26.98	-0.20	21.64	57.62	27.05	-0.35	21.70
16.52	26.85	-1.27	21.56	33.82	26.99	-0.19	21.65	57.89	27.05	-0.34	21.70
16.74	26.85	-1.27	21.56	34.27	26.98	-0.18	21.64	58.35	27.04	-0.33	21.70
17.01	26.85	-1.27	21.56	34.76	26.99	-0.19	21.65	59.00	27.05	-0.32	21.70
17.24	26.86	-1.27	21.56	35.24	26.99	-0.18	21.65	59.46	27.06	-0.30	21.71
17.42	26.85	-1.26	21.56	35.73	26.99	-0.18	21.65	59.93	27.05	-0.29	21.70
17.63	26.83	-1.27	21.54	36.34	26.99	-0.18	21.65	60.35	27.05	-0.29	21.70
17.87	26.84	-1.29	21.55	36.64	26.99	-0.19	21.65	60.79	27.05	-0.29	21.70
18.19	26.84	-1.31	21.55	37.27	26.98	-0.20	21.64	61.15	27.05	-0.29	21.70
18.47	26.85	-1.31	21.56	37.93	26.96	-0.23	21.63	61.45	27.05	-0.30	21.70
18.67	26.85	-1.31	21.56	38.52	26.93	-0.28	21.60	61.88	27.04	-0.30	21.70
18.92	26.87	-1.31	21.57	39.18	27.00	-0.34	21.66	62.00	27.04	-0.31	21.70
19.11	26.88	-1.30	21.58	39.71	26.98	-0.34	21.65				
19.41	26.91	-1.26	21.61	40.28	26.97	-0.35	21.64				
19.65	26.88	-1.22	21.58	40.69	26.99	-0.37	21.65				
19.94	26.87	-1.21	21.57	41.22	27.00	-0.38	21.66				
20.19	26.84	-1.21	21.54	41.66	27.01	-0.37	21.67				
20.46	26.86	-1.23	21.57	42.16	27.00	-0.36	21.66				
20.66	26.87	-1.23	21.57	42.68	26.95	-0.38	21.63				
7.28	26.84	-1.31	21.55	43.13	26.98	-0.42	21.64				
7.51	26.84	-1.32	21.55	43.57	26.99	-0.44	21.66				
7.69	26.84	-1.32	21.55	43.99	27.02	-0.44	21.68				
7.96	26.84	-1.31	21.55	44.82	27.02	-0.35	21.68				
22.38	27.04	-0.94	21.71	45.29	27.04	-0.32	21.70				
22.70	27.01	-0.80	21.68	45.62	27.03	-0.30	21.68				
23.02	26.94	-0.72	21.62	46.08	27.00	-0.29	21.66				
23.35	26.91	-0.69	21.60	46.48	26.98	-0.31	21.65				
23.58	26.91	-0.69	21.60	46.92	26.99	-0.33	21.65				
23.86	26.92	-0.68	21.61	47.47	26.96	-0.35	21.63				
24.16	26.93	-0.67	21.61	47.85	26.97	-0.42	21.64				
24.42	26.94	-0.65	21.62	48.30	26.98	-0.46	21.65				
24.73	26.94	-0.62	21.62	48.68	27.00	-0.47	21.67				
24.98	26.93	-0.60	21.61	49.23	27.02	-0.46	21.68				
25.32	26.94	-0.59	21.62	49.65	27.02	-0.44	21.68				
25.61	26.92	-0.57	21.60	50.07	27.02	-0.43	21.68				
26.00	26.88	-0.58	21.57	50.47	27.03	-0.43	21.69				
26.36	26.90	-0.62	21.59	50.80	27.03	-0.42	21.69				
26.59	26.96	-0.63	21.63	51.22	27.06	-0.40	21.71				
27.02	27.01	-0.59	21.68	51.67	27.07	-0.36	21.72				
27.34	26.99	-0.52	21.66	51.89	27.04	-0.32	21.69				
27.58	26.97	-0.49	21.64	52.35	27.04	-0.31	21.69				
27.85	26.95	-0.46	21.63	52.52	27.04	-0.29	21.69				
28.12	26.96	-0.45	21.63	52.82	27.04	-0.29	21.70				

WT8 - 20-May-2011			
Depth	Salinity	Temp	Density
(m)		(°C)	σ_t
1.53	26.55	-0.96	21.31
1.63	26.55	-0.93	21.31
1.64	26.61	-0.92	21.36
2.20	26.51	-0.98	21.28
2.51	26.54	-1.01	21.30
2.55	26.61	-1.01	21.36
3.06	26.54	-1.02	21.30
3.58	26.58	-1.03	21.33
3.90	26.55	-1.03	21.31
4.34	26.58	-1.04	21.34
4.52	26.62	-1.05	21.36
4.97	26.60	-1.05	21.35
5.50	26.61	-1.07	21.36
5.53	26.62	-1.06	21.37
5.92	26.62	-1.07	21.37
6.47	26.62	-1.07	21.36
6.53	26.65	-1.07	21.39
6.79	26.62	-1.07	21.36
7.39	26.63	-1.07	21.38
7.52	26.65	-1.07	21.39
7.52	26.69	-1.05	21.42
7.51	26.71	-1.03	21.44
7.51	26.71	-1.00	21.44
7.60	26.65	-1.00	21.39
8.06	26.61	-1.01	21.36
8.48	26.66	-1.03	21.40

Table A3-1.1. Under-Ice Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, March-May 2011

WT8 - 20-May-2011				WT8 - 20-May-2011			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t
8.55	26.68	-1.03	21.42	27.96	26.91	-0.66	21.60
8.77	26.68	-1.02	21.41	28.21	26.88	-0.60	21.57
9.51	26.69	-1.00	21.42	28.50	26.87	-0.57	21.56
9.57	26.69	-0.98	21.42	28.83	26.86	-0.56	21.56
10.20	26.69	-0.97	21.42	29.15	26.89	-0.54	21.58
10.47	26.71	-0.97	21.44	29.40	26.88	-0.51	21.57
10.84	26.69	-0.95	21.43	29.68	26.87	-0.49	21.56
11.24	26.71	-0.94	21.43	29.95	26.85	-0.49	21.55
11.43	26.71	-0.94	21.44	30.29	26.86	-0.50	21.55
11.48	26.71	-0.92	21.44	30.62	26.87	-0.50	21.56
11.82	26.73	-0.92	21.46	30.65	26.87	-0.50	21.56
12.28	26.72	-0.89	21.45	30.69	26.87	-0.50	21.56
12.44	26.74	-0.86	21.46	31.11	26.87	-0.50	21.56
12.70	26.76	-0.83	21.48	31.43	26.88	-0.50	21.57
13.20	26.62	-0.81	21.37	31.36	26.87	-0.50	21.56
13.45	26.63	-0.93	21.37	31.60	26.88	-0.50	21.56
13.77	26.67	-0.99	21.40	31.95	26.88	-0.50	21.57
14.15	26.70	-1.04	21.43	32.31	26.88	-0.50	21.56
14.41	26.72	-1.07	21.44	32.77	26.87	-0.51	21.56
14.76	26.68	-1.08	21.41	33.15	26.88	-0.52	21.57
15.05	26.70	-1.13	21.43	33.62	26.87	-0.52	21.56
15.32	26.71	-1.14	21.44	33.94	26.88	-0.53	21.57
15.42	26.74	-1.15	21.46	34.27	26.88	-0.54	21.57
15.74	26.72	-1.15	21.45	34.67	26.89	-0.55	21.57
16.18	26.73	-1.15	21.46	35.18	26.88	-0.57	21.57
16.44	26.74	-1.16	21.46	35.42	26.89	-0.58	21.57
16.95	26.73	-1.15	21.46	35.40	26.89	-0.59	21.58
17.38	26.74	-1.16	21.46	35.70	26.89	-0.59	21.57
18.42	26.74	-1.16	21.46	36.13	26.89	-0.60	21.58
18.98	26.74	-1.17	21.47	36.38	26.89	-0.60	21.58
19.35	26.75	-1.17	21.47	36.66	26.90	-0.60	21.58
19.72	26.75	-1.17	21.48	36.86	26.90	-0.60	21.59
20.13	26.76	-1.17	21.48	38.96	26.94	-0.55	21.62
20.44	26.78	-1.15	21.50	39.26	26.94	-0.52	21.61
20.86	26.79	-1.12	21.51	39.65	26.94	-0.50	21.62
21.22	26.78	-1.10	21.49	40.11	26.94	-0.47	21.62
21.34	26.78	-1.09	21.50	40.41	26.93	-0.45	21.61
21.60	26.76	-1.08	21.48	40.89	26.93	-0.45	21.60
21.89	26.75	-1.09	21.47	41.33	26.93	-0.45	21.60
22.37	26.78	-1.09	21.50	41.66	26.93	-0.44	21.61
22.63	26.79	-1.07	21.50	42.19	26.93	-0.44	21.61
22.98	26.78	-1.05	21.49	42.39	26.93	-0.44	21.61
23.33	26.81	-1.04	21.52	42.79	26.93	-0.44	21.61
23.60	26.82	-1.02	21.53	43.02	26.93	-0.44	21.61
24.02	26.81	-0.97	21.52				
24.37	26.81	-0.96	21.52				
24.61	26.81	-0.94	21.52				
25.08	26.82	-0.91	21.53				
25.49	26.83	-0.88	21.53				
25.83	26.88	-0.83	21.57				
26.03	26.90	-0.76	21.59				
26.34	26.86	-0.67	21.55				
26.83	26.80	-0.67	21.51				
27.30	26.82	-0.70	21.52				
27.56	26.84	-0.70	21.54				

Table A3-1.2. Open-Water Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, July-October 2011

RBW - 21-Jul-11				RBW - 21-Jul-11				ST3 - 21-Jul-11			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t	(m)		(°C)	σ_t
0.64	24.65	10.05	18.88	4.83	26.57	1.99	21.23	1.04	23.75	8.50	18.39
0.64	24.80	9.81	19.03	4.84	26.57	1.85	21.23	1.23	24.63	5.96	19.37
1.07	24.84	9.75	19.07	4.86	26.62	1.82	21.27	1.34	25.70	4.50	20.36
1.19	24.85	9.72	19.08	4.86	26.62	1.83	21.28	1.55	25.99	4.03	20.62
1.19	24.80	9.73	19.04	4.99	26.30	1.90	21.02	1.75	26.13	3.77	20.76
1.20	24.52	9.73	18.83	5.47	26.56	1.55	21.24	1.95	26.21	3.63	20.83
1.22	23.07	9.58	17.72					2.16	26.15	3.45	20.80
1.81	25.19	5.27	19.89					2.35	26.31	3.36	20.93
1.81	25.88	4.55	20.50					2.48	26.29	3.33	20.91
1.80	26.11	4.28	20.70					2.58	26.29	3.27	20.92
1.83	26.07	4.28	20.67					2.67	26.33	3.23	20.95
1.83	26.15	4.23	20.73					2.74	26.34	3.20	20.96
1.84	26.34	4.23	20.88					2.85	26.33	3.18	20.96
1.84	26.43	4.22	20.96					2.96	26.30	3.15	20.94
1.85	26.45	4.20	20.98					3.06	26.34	3.11	20.97
1.85	26.47	4.20	21.00					3.16	26.36	3.09	20.99
1.86	26.54	4.20	21.05					3.29	26.36	3.07	20.99
1.97	25.93	4.16	20.56					3.39	26.39	3.04	21.02
2.41	26.13	3.64	20.76					3.45	26.41	3.02	21.03
2.40	26.37	3.54	20.97					3.57	26.41	2.99	21.03
2.39	26.45	3.45	21.04					3.69	26.42	2.95	21.04
2.39	26.53	3.45	21.10					3.80	26.42	2.90	21.05
2.40	26.57	3.52	21.12					3.90	26.46	2.84	21.08
2.41	26.65	3.55	21.19					4.02	26.46	2.80	21.09
2.74	26.25	3.36	20.88					4.16	26.48	2.78	21.10
2.75	26.42	3.31	21.02					4.26	26.46	2.74	21.09
2.75	26.48	3.33	21.07					4.37	26.47	2.68	21.11
2.75	26.47	3.34	21.06					4.48	26.51	2.59	21.14
2.76	26.44	3.38	21.04					4.60	26.52	2.51	21.16
3.08	26.09	3.34	20.76					4.71	26.49	2.41	21.13
3.27	26.43	3.04	21.04					4.80	26.50	2.37	21.15
3.26	26.35	3.10	20.98					4.88	26.52	2.32	21.17
3.26	26.54	2.97	21.14					4.96	26.51	2.30	21.16
3.26	26.59	2.90	21.18					5.08	26.45	2.29	21.11
3.27	26.71	2.71	21.29					5.17	26.51	2.22	21.17
3.80	26.47	2.49	21.12					5.26	26.47	2.19	21.14
3.79	26.61	2.48	21.22					5.33	26.38	2.16	21.06
3.78	26.51	2.48	21.15					5.42	26.27	2.11	20.98
3.79	26.60	2.45	21.22					5.51	26.39	1.90	21.09
3.79	26.59	2.46	21.22					5.63	26.54	1.72	21.21
3.81	26.62	2.46	21.24					5.82	26.54	1.62	21.22
3.81	26.58	2.48	21.20					5.92	26.59	1.54	21.27
4.18	26.42	2.42	21.08					6.04	26.66	1.48	21.32
4.26	26.56	2.33	21.20					6.16	26.69	1.47	21.35
4.26	26.66	2.34	21.28					6.31	26.67	1.47	21.33
4.26	26.68	2.35	21.29					6.40	26.68	1.47	21.34
4.27	26.70	2.36	21.31					6.49	26.72	1.46	21.37
4.27	26.70	2.38	21.31					6.62	26.70	1.47	21.36
4.28	26.66	2.41	21.27					6.71	26.70	1.45	21.36
4.29	26.65	2.42	21.27					6.81	26.74	1.45	21.39
4.75	26.33	2.38	21.02					6.97	26.68	1.43	21.34
4.83	26.53	2.28	21.18					7.10	26.64	1.40	21.31
4.78	26.47	2.24	21.13					7.29	26.63	1.36	21.31
4.73	26.20	2.16	20.92					7.36	26.68	1.31	21.35
2.75	26.58	2.25	21.21					7.43	26.70	1.30	21.36
2.14	26.53	2.91	21.14					7.60	26.62	1.27	21.30
3.59	26.44	2.42	21.10					7.79	26.67	1.20	21.35
4.76	26.38	2.20	21.06					8.00	26.67	1.19	21.35
4.78	26.56	2.06	21.21					8.17	26.67	1.17	21.35
4.80	26.52	2.04	21.19					8.33	26.66	1.15	21.34

Table A3-1.2. Open-Water Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, July-October 2011

ST3 - 21-Jul-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
8.56	26.70	1.13	21.37
8.81	26.67	1.09	21.35
8.91	26.70	1.06	21.37
8.98	26.68	1.05	21.36
9.18	26.69	1.02	21.37
9.27	26.71	1.00	21.38
9.39	26.72	1.00	21.39
9.56	26.71	0.98	21.39
9.72	26.72	0.93	21.40
9.96	26.70	0.91	21.38
10.13	26.72	0.89	21.39
10.41	26.70	0.86	21.38
10.61	26.75	0.81	21.43
10.84	26.75	0.80	21.43

ST4 - 21-Jul-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
1.05	24.79	7.48	19.33
1.31	23.99	6.54	18.81
1.44	24.99	4.85	19.76
1.53	25.41	4.30	20.15
1.64	25.59	3.98	20.31
1.67	25.79	3.71	20.49
1.76	25.86	3.59	20.55
1.83	25.89	3.54	20.59
1.97	25.93	3.49	20.62
2.05	25.99	3.48	20.67
2.12	25.89	3.81	20.56
2.23	25.80	3.66	20.51
2.34	25.92	3.52	20.61
2.42	25.99	3.43	20.67
2.49	25.99	3.42	20.67
2.59	26.02	3.41	20.69
2.65	26.03	3.39	20.71
2.72	26.05	3.36	20.72
2.77	26.05	3.35	20.73
2.84	26.07	3.36	20.74
2.91	26.09	3.34	20.75
3.02	26.15	3.33	20.80
3.13	26.13	3.37	20.79
3.26	26.12	3.39	20.78
3.36	26.16	3.36	20.81
3.43	26.10	3.25	20.77
3.49	26.26	3.01	20.91
3.53	26.32	2.92	20.97
3.60	26.29	2.87	20.95
3.68	26.27	2.82	20.94
3.75	26.31	2.72	20.97
3.86	26.31	2.65	20.98
3.98	26.36	2.56	21.02
4.11	26.38	2.47	21.05
4.24	26.42	2.40	21.08
4.25	26.43	2.38	21.09
4.42	26.30	2.34	20.99
4.50	26.33	2.26	21.02
4.59	26.37	2.10	21.06
4.71	26.45	1.98	21.13
4.83	26.52	1.91	21.19

ST4 - 21-Jul-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
5.01	26.47	1.86	21.15
5.21	26.38	1.69	21.09
5.40	26.36	1.42	21.09
5.53	26.54	1.16	21.24
5.63	26.59	1.05	21.28
5.77	26.59	0.97	21.29
6.04	26.66	0.89	21.35
6.26	26.74	0.86	21.41
6.36	26.75	0.86	21.42
6.45	26.80	0.88	21.46
6.68	26.78	0.94	21.44
6.95	26.69	1.00	21.37
7.10	26.68	0.98	21.37
7.22	26.75	0.90	21.42
7.35	26.71	0.85	21.39
7.52	26.73	0.79	21.41
7.65	26.73	0.77	21.41
7.75	26.73	0.75	21.41
8.15	26.76	0.76	21.43
8.58	26.74	0.79	21.42
8.85	26.75	0.71	21.43
9.32	26.78	0.71	21.45
9.78	26.77	0.71	21.45
10.20	26.78	0.74	21.45
10.59	26.78	0.75	21.45
10.85	26.74	0.72	21.42
10.94	26.66	0.64	21.36
11.17	26.69	0.42	21.39
11.22	26.76	0.32	21.45
11.45	26.76	0.27	21.45
11.70	26.78	0.20	21.47
12.07	26.75	0.16	21.44
12.47	26.80	0.02	21.49
12.62	26.88	-0.01	21.56
12.78	26.84	0.03	21.53
12.95	26.85	0.02	21.53
13.23	26.87	0.06	21.55
13.50	26.88	0.03	21.56
13.76	26.83	0.04	21.51
14.06	26.84	0.01	21.52
14.44	26.85	-0.04	21.54
14.84	26.85	-0.06	21.53
15.07	26.87	-0.09	21.55
15.19	26.88	-0.10	21.56
15.27	26.88	-0.11	21.56
15.47	26.87	-0.11	21.55
15.73	26.87	-0.14	21.55
16.24	26.87	-0.15	21.56
16.49	26.88	-0.15	21.56
17.09	26.87	-0.18	21.55
17.37	26.88	-0.19	21.56
17.56	26.88	-0.20	21.56
17.89	26.89	-0.22	21.57
18.17	26.87	-0.25	21.55
18.68	26.87	-0.37	21.56
18.96	26.89	-0.40	21.57
19.59	26.91	-0.42	21.59
20.12	26.92	-0.43	21.60
20.34	26.92	-0.43	21.60
20.72	26.92	-0.43	21.60

ST4 - 21-Jul-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
20.91	26.92	-0.44	21.60
20.94	26.92	-0.44	21.60
20.91	26.92	-0.44	21.60
20.79	26.92	-0.44	21.60
20.81	26.92	-0.44	21.60
21.45	26.93	-0.45	21.61
21.74	26.93	-0.46	21.61
22.43	26.94	-0.46	21.62
23.29	26.97	-0.44	21.64
23.70	26.97	-0.42	21.64
24.22	26.95	-0.41	21.62
24.77	26.97	-0.42	21.64
25.36	26.98	-0.42	21.65
25.93	27.00	-0.42	21.66
26.59	27.01	-0.41	21.67
27.47	27.01	-0.40	21.67
28.11	27.01	-0.40	21.67
28.74	27.02	-0.40	21.68
29.45	27.01	-0.40	21.67
29.97	27.02	-0.41	21.68
30.49	27.03	-0.41	21.69
30.99	27.03	-0.41	21.69
31.39	27.04	-0.41	21.69
32.08	27.04	-0.41	21.70
32.33	27.04	-0.42	21.69
32.82	27.04	-0.42	21.70
32.97	27.05	-0.43	21.70
33.27	27.05	-0.43	21.70
34.36	27.05	-0.44	21.70
35.22	27.06	-0.45	21.71
35.57	27.06	-0.46	21.71
35.80	27.05	-0.48	21.71
36.30	27.06	-0.52	21.72
36.66	27.06	-0.55	21.72
37.76	27.07	-0.60	21.73
38.76	27.09	-0.63	21.74
38.98	27.11	-0.64	21.75
40.07	27.11	-0.67	21.76
41.02	27.13	-0.70	21.77
41.54	27.13	-0.70	21.78
42.42	27.14	-0.71	21.78
43.53	27.14	-0.72	21.78
44.59	27.15	-0.73	21.79
45.28	27.16	-0.73	21.80
45.36	27.16	-0.73	21.80

ST5 - 21-Jul-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
0.93	19.99	10.80	15.15
1.23	22.75	7.70	17.71
1.57	23.87	6.61	18.71
2.14	24.95	4.84	19.74
2.48	25.39	4.29	20.13
2.80	25.56	3.86	20.30
3.02	25.86	3.34	20.57
3.23	26.01	3.09	20.71
3.44	26.11	2.96	20.80
3.88	26.17	2.62	20.87

Table A3-1.2. Open-Water Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, July-October 2011

ST5 - 21-Jul-11				ST5 - 21-Jul-11				ST5 - 21-Jul-11			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t	(m)		(°C)	σ_t
4.00	26.32	2.50	20.99	16.54	26.90	-0.65	21.59	48.17	27.14	-0.75	21.78
4.09	26.34	2.46	21.01	16.56	26.90	-0.65	21.59	49.96	27.14	-0.77	21.78
4.29	26.35	2.44	21.03	16.56	26.90	-0.65	21.58	50.50	27.15	-0.78	21.79
4.72	26.35	2.42	21.03	16.60	26.90	-0.65	21.59	51.65	27.16	-0.77	21.80
5.01	26.32	2.35	21.00	16.84	26.91	-0.66	21.59	52.33	27.16	-0.78	21.80
5.29	26.31	2.08	21.01	17.10	26.90	-0.67	21.59	53.03	27.16	-0.78	21.80
5.61	26.35	1.84	21.06	17.31	26.90	-0.68	21.59	54.09	27.16	-0.78	21.80
5.86	26.11	1.43	20.89	17.57	26.92	-0.69	21.60	55.34	27.16	-0.78	21.80
6.01	26.30	1.05	21.05	18.14	26.90	-0.69	21.59	56.55	27.16	-0.79	21.80
6.11	26.39	0.72	21.14	19.04	26.95	-0.67	21.63	57.18	27.16	-0.80	21.80
6.21	26.51	0.51	21.24	19.77	27.02	-0.67	21.68	58.48	27.17	-0.80	21.80
6.34	26.69	0.40	21.39	20.29	27.02	-0.59	21.68	59.57	27.17	-0.80	21.81
6.44	26.67	0.41	21.38	20.71	27.05	-0.50	21.70	60.40	27.17	-0.80	21.81
6.63	26.68	0.40	21.38	21.13	27.02	-0.38	21.68	61.95	27.17	-0.81	21.81
6.95	26.72	0.40	21.41	21.85	26.98	-0.36	21.65	63.15	27.18	-0.83	21.82
7.38	26.68	0.39	21.38	22.20	27.00	-0.37	21.66	64.26	27.18	-0.83	21.82
7.57	26.72	0.34	21.42	22.95	27.00	-0.38	21.66	65.79	27.18	-0.84	21.82
7.79	26.73	0.33	21.43	23.53	27.02	-0.38	21.68	66.56	27.19	-0.83	21.83
8.07	26.74	0.33	21.44	24.21	27.02	-0.35	21.68	67.49	27.19	-0.83	21.82
8.31	26.74	0.32	21.44	24.36	27.02	-0.34	21.68	67.60	27.19	-0.83	21.83
8.76	26.71	0.30	21.41	24.44	27.02	-0.33	21.68	68.00	27.19	-0.83	21.83
9.22	26.73	0.13	21.44	24.56	27.02	-0.33	21.68	68.94	27.19	-0.84	21.83
9.72	26.84	0.16	21.52	24.79	27.01	-0.33	21.67	69.60	27.20	-0.85	21.83
10.18	26.81	0.19	21.49	24.94	27.02	-0.34	21.68	70.42	27.20	-0.85	21.83
10.66	26.77	0.16	21.46	25.02	27.01	-0.34	21.67	70.88	27.20	-0.86	21.83
11.12	26.79	0.08	21.49	25.44	27.01	-0.36	21.67	71.22	27.20	-0.86	21.83
11.27	26.81	0.04	21.50	25.38	27.02	-0.37	21.68				
11.65	26.82	0.02	21.51	25.18	27.02	-0.37	21.67				
11.96	26.82	0.00	21.51	24.89	27.02	-0.35	21.68				
12.23	26.82	-0.02	21.51	24.43	27.01	-0.34	21.67				
12.46	26.83	-0.04	21.52	24.17	27.01	-0.34	21.67				
12.54	26.84	-0.05	21.52	24.01	27.00	-0.35	21.67				
12.52	26.83	-0.06	21.52	23.84	27.00	-0.37	21.66				
12.34	26.84	-0.05	21.52	23.71	27.00	-0.38	21.66				
12.28	26.84	-0.04	21.52	23.87	27.00	-0.38	21.67				
12.49	26.83	-0.05	21.52	23.93	27.01	-0.38	21.67				
12.69	26.84	-0.06	21.52	24.16	27.03	-0.37	21.68				
12.93	26.83	-0.07	21.52	24.29	27.02	-0.36	21.68				
13.23	26.85	-0.07	21.54	24.68	27.02	-0.35	21.68				
13.45	26.85	-0.08	21.54	24.77	27.02	-0.35	21.68				
13.69	26.85	-0.08	21.54	25.05	27.02	-0.34	21.68				
13.76	26.85	-0.08	21.53	25.66	27.02	-0.34	21.68				
13.72	26.85	-0.08	21.54	26.84	27.03	-0.37	21.68				
13.43	26.85	-0.08	21.54	27.86	27.04	-0.36	21.69				
12.96	26.85	-0.08	21.53	28.79	27.02	-0.37	21.68				
12.51	26.85	-0.07	21.53	30.11	27.03	-0.40	21.69				
12.16	26.85	-0.05	21.53	31.65	27.04	-0.43	21.70				
12.27	26.84	-0.05	21.53	33.43	27.06	-0.45	21.71				
12.73	26.84	-0.07	21.53	35.44	27.06	-0.47	21.71				
13.35	26.85	-0.08	21.54	37.14	27.07	-0.51	21.72				
13.86	26.82	-0.12	21.51	37.65	27.07	-0.53	21.72				
14.49	26.79	-0.21	21.49	38.49	27.07	-0.57	21.72				
15.00	26.82	-0.36	21.52	40.39	27.07	-0.63	21.72				
15.26	26.86	-0.45	21.55	41.25	27.09	-0.67	21.75				
15.39	26.88	-0.48	21.57	43.35	27.11	-0.71	21.76				
15.79	26.87	-0.51	21.56	43.17	27.12	-0.72	21.76				
16.36	26.86	-0.59	21.56	43.81	27.12	-0.72	21.77				
16.69	26.89	-0.64	21.58	45.03	27.12	-0.74	21.77				
16.49	26.89	-0.65	21.58	46.82	27.12	-0.74	21.77				
16.59	26.89	-0.65	21.58	47.57	27.14	-0.75	21.78				

ST6 - 21-Jul-11			
Depth	Salinity	Temp	Density
(m)		(°C)	σ_t
1.94	21.72	9.10	16.73
2.53	24.55	5.00	19.40
3.03	24.98	4.04	19.82
4.41	25.76	2.85	20.53
4.94	26.15	2.39	20.86
5.24	26.08	2.24	20.82
5.67	26.08	1.90	20.84
6.42	26.10	1.36	20.88
7.05	26.20	0.69	20.99
7.50	26.43	0.28	21.19
7.88	26.62	0.17	21.34
8.22	26.91	0.14	21.58
9.17	26.82	0.44	21.49
9.77	26.77	0.55	21.45
9.84	26.84	0.55	21.51
9.91	26.85	0.55	21.51
10.77	26.63	0.38	21.34
10.94	26.87	0.27	21.54
11.51	26.81	0.30	21.49
12.38	26.81	0.31	21.49
12.99	26.66	0.28	21.37
14.10	26.63	-0.07	21.36
15.60	26.67	-0.25	21.40
17.51	26.76	-0.39	21.47
18.87	26.82	-0.48	21.52
19.83	26.84	-0.53	21.54
20.67	26.86	-0.56	21.55
21.81	26.87	-0.59	21.56
22.99	26.90	-0.63	21.58

Table A3-1.2. Open-Water Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, July-October 2011

ST6 - 21-Jul-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
23.48	26.92	-0.66	21.60
24.90	26.94	-0.66	21.62
26.22	27.02	-0.68	21.68
27.51	27.02	-0.61	21.68
28.56	27.06	-0.43	21.71
29.39	27.02	-0.37	21.68
30.35	27.00	-0.36	21.66
31.42	27.00	-0.36	21.66
32.43	26.98	-0.40	21.65
33.41	27.04	-0.51	21.70
34.15	27.03	-0.53	21.69
35.32	27.04	-0.58	21.70
36.39	27.06	-0.61	21.71
37.73	27.05	-0.62	21.71
38.59	27.08	-0.65	21.73
39.62	27.07	-0.66	21.73
40.43	27.10	-0.68	21.75
41.91	27.09	-0.68	21.74
42.98	27.10	-0.68	21.75
43.97	27.10	-0.68	21.75
45.03	27.10	-0.69	21.75
46.00	27.11	-0.69	21.76
46.67	27.13	-0.69	21.77
47.64	27.11	-0.70	21.76
48.38	27.11	-0.70	21.76
50.00	27.12	-0.70	21.77
51.37	27.12	-0.70	21.77
52.65	27.13	-0.71	21.77
53.97	27.12	-0.74	21.77
55.00	27.14	-0.75	21.78
56.00	27.14	-0.76	21.78
57.05	27.16	-0.77	21.80
57.71	27.16	-0.78	21.80
58.31	27.15	-0.78	21.79
59.38	27.15	-0.78	21.79
61.06	27.15	-0.78	21.79
62.02	27.15	-0.79	21.79
62.84	27.17	-0.79	21.81
63.33	27.17	-0.79	21.81
64.46	27.15	-0.79	21.79
65.32	27.16	-0.79	21.80
65.99	27.16	-0.79	21.80
66.62	27.16	-0.79	21.80
67.24	27.16	-0.79	21.80
68.16	27.17	-0.79	21.80
68.80	27.16	-0.80	21.80
69.68	27.16	-0.80	21.80
70.72	27.16	-0.80	21.80
71.63	27.17	-0.81	21.81
72.45	27.17	-0.81	21.81
73.31	27.17	-0.82	21.81
74.09	27.17	-0.83	21.81
74.70	27.19	-0.84	21.82
75.30	27.18	-0.84	21.82
75.81	27.18	-0.84	21.81
76.56	27.18	-0.85	21.82
77.24	27.19	-0.85	21.83
78.05	27.19	-0.85	21.82
78.62	27.18	-0.85	21.82
79.21	27.18	-0.85	21.82

ST6 - 21-Jul-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
80.08	27.18	-0.87	21.82
80.59	27.19	-0.88	21.83
80.93	27.21	-0.88	21.84

ST6B - 21-Jul-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
1.04	18.19	11.17	13.70
1.90	22.25	8.15	17.26
3.72	23.92	5.20	18.89
4.35	25.33	3.27	20.16
6.03	25.37	1.68	20.28
8.62	26.15	0.57	20.95
10.01	26.44	0.20	21.20
13.40	26.58	-0.09	21.32
15.49	26.67	-0.23	21.40
17.73	26.73	-0.39	21.45
20.19	26.81	-0.49	21.51
22.63	26.86	-0.59	21.56
25.24	26.92	-0.58	21.60
27.48	27.03	-0.45	21.69
29.14	27.02	-0.40	21.68
31.22	27.01	-0.34	21.67
32.81	27.03	-0.36	21.69
35.79	27.03	-0.37	21.68
37.34	27.05	-0.37	21.70
37.70	27.05	-0.36	21.70
39.40	26.98	-0.41	21.65
40.71	27.05	-0.57	21.71
41.29	27.03	-0.60	21.69
42.21	27.05	-0.63	21.71
44.03	27.03	-0.66	21.70
44.04	27.08	-0.68	21.74
43.89	27.11	-0.68	21.76
43.87	27.10	-0.66	21.75
43.91	27.07	-0.66	21.72
45.55	27.05	-0.68	21.71
48.59	27.06	-0.71	21.72
48.71	27.10	-0.71	21.75
48.88	27.12	-0.71	21.76
51.19	27.08	-0.72	21.73
52.93	27.11	-0.73	21.76
54.18	27.11	-0.73	21.76
56.00	27.13	-0.73	21.77
56.16	23.77	-0.73	19.06

RBW - 14-Aug-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
0.56	20.25	16.89	14.25
0.71	22.43	13.13	16.65
0.97	23.06	11.96	17.35
1.27	23.36	11.54	17.65
1.52	23.47	11.20	17.78
1.86	23.59	10.93	17.92
2.14	23.52	10.77	17.89
2.41	23.58	10.36	18.00
2.71	23.96	9.45	18.42

ST6B - 21-Jul-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
3.05	24.39	8.04	18.95
3.29	24.97	6.54	19.58
3.42	25.21	6.01	19.83
3.77	25.37	5.64	19.99
3.86	25.69	5.23	20.28

ST2 - 14-Aug-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
0.72	22.66	12.04	17.02
0.93	22.87	11.70	17.24
0.97	22.95	11.57	17.32
1.03	23.03	11.50	17.39
1.12	23.10	11.46	17.46
1.46	23.51	11.29	17.80
1.75	23.59	10.76	17.95
2.07	23.82	10.40	18.18
2.24	23.90	10.21	18.27
2.41	24.09	9.93	18.46
2.61	24.25	9.72	18.61
2.80	24.27	9.62	18.65
3.03	24.32	9.38	18.72
3.29	24.66	8.72	19.08
3.54	24.77	8.08	19.24
3.92	24.89	7.22	19.44
4.29	25.33	6.27	19.89
4.54	25.30	5.78	19.92
4.80	25.46	4.99	20.13
5.11	25.77	4.32	20.43
5.48	25.89	3.96	20.55
5.81	25.97	3.67	20.64
6.23	26.04	3.27	20.72
6.54	26.23	3.00	20.89
6.81	26.24	2.85	20.91
7.15	26.32	2.70	20.98
7.48	26.42	2.65	21.07
7.77	26.39	2.63	21.05
7.96	26.46	2.50	21.10

ST3 - 14-Aug-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
1.05	22.95	11.34	17.36
1.30	23.21	11.29	17.57
1.35	23.34	11.11	17.69
1.35	23.32	11.11	17.68
1.23	23.30	11.14	17.66
0.99	23.06	11.28	17.45
0.97	23.00	11.34	17.40
0.97	22.98	11.36	17.38
1.04	23.00	11.36	17.39
1.18	23.02	11.37	17.41
1.33	23.14	11.33	17.51
1.49	23.24	11.20	17.61
1.65	23.74	10.73	18.07
1.81	23.85	10.57	18.17
1.92	23.85	10.47	18.19
2.12	23.70	10.31	18.10

Table A3-1.2. Open-Water Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, July-October 2011

ST3 - 14-Aug-11				ST4 - 14-Aug-11				ST4 - 14-Aug-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t	Depth (m)	Salinity	Temp (°C)	Density σ_t	Depth (m)	Salinity	Temp (°C)	Density σ_t
2.29	23.86	9.98	18.27	4.45	25.09	7.28	19.60	23.84	26.87	-0.17	21.55
2.50	23.96	9.85	18.37	4.62	25.11	7.38	19.59	24.31	26.87	-0.21	21.56
2.74	23.83	9.55	18.31	4.86	24.97	7.02	19.53	24.69	26.92	-0.23	21.59
2.97	24.07	9.03	18.57	5.14	25.15	6.20	19.76	25.24	26.92	-0.22	21.59
3.21	24.04	8.73	18.59	5.49	25.35	5.10	20.03	25.76	26.91	-0.22	21.59
3.44	23.97	8.10	18.62	5.73	25.67	4.41	20.34	26.22	26.93	-0.24	21.60
3.68	24.83	7.42	19.37	5.93	25.82	4.01	20.49	26.66	26.94	-0.24	21.61
3.98	25.08	7.15	19.60	6.15	26.00	3.74	20.66	27.09	26.95	-0.25	21.62
4.25	25.21	6.87	19.74	6.37	26.08	3.58	20.73	27.55	26.95	-0.25	21.62
4.49	25.42	6.49	19.94	6.57	26.13	3.48	20.78	28.03	26.95	-0.26	21.62
4.75	25.41	6.13	19.97	6.77	26.15	3.41	20.80	28.45	26.96	-0.27	21.63
4.99	25.58	5.55	20.16	6.91	26.12	3.34	20.78	28.88	26.97	-0.29	21.63
5.22	25.66	5.15	20.27	7.12	26.12	3.22	20.79	29.28	26.97	-0.29	21.64
5.45	25.76	4.76	20.38	7.43	26.20	3.08	20.86	29.77	26.97	-0.30	21.64
5.75	25.91	4.38	20.53	7.64	26.22	3.00	20.88	30.23	26.98	-0.31	21.64
6.00	26.00	4.13	20.63	7.95	26.24	2.94	20.90	30.68	26.99	-0.31	21.65
6.27	25.98	3.97	20.62	8.24	26.27	2.89	20.93	31.14	26.99	-0.32	21.66
6.59	25.91	3.68	20.59	8.51	26.16	2.82	20.85	31.64	26.99	-0.33	21.66
6.87	26.06	3.34	20.73	8.78	26.19	2.57	20.89	31.94	27.00	-0.34	21.66
7.14	26.10	3.13	20.78	9.06	26.38	2.35	21.06	32.37	26.99	-0.35	21.65
7.44	26.25	2.91	20.92	9.31	26.33	2.26	21.02	32.90	27.00	-0.38	21.66
7.74	26.31	2.87	20.96	9.64	26.26	1.94	20.98	33.34	27.01	-0.40	21.67
7.97	26.31	2.83	20.96	9.93	26.41	1.69	21.11	33.87	27.01	-0.41	21.67
8.21	26.34	2.75	21.00	10.24	26.52	1.56	21.21	34.42	27.01	-0.43	21.67
8.47	26.35	2.66	21.01	10.60	26.54	1.52	21.22	34.97	27.02	-0.44	21.68
8.72	26.43	2.59	21.08	11.02	26.53	1.48	21.22	35.45	27.03	-0.46	21.69
9.02	26.40	2.55	21.06	11.35	26.57	1.43	21.25	35.95	27.02	-0.48	21.68
9.34	26.38	2.46	21.04	11.63	26.57	1.39	21.25	36.46	27.03	-0.52	21.69
9.63	26.45	2.36	21.11	12.07	26.62	1.35	21.30	36.99	27.04	-0.56	21.70
9.93	26.45	2.32	21.11	12.49	26.57	1.30	21.26	37.53	27.07	-0.59	21.72
10.25	26.49	2.26	21.15	12.82	26.50	1.16	21.21	37.98	27.08	-0.61	21.73
10.63	26.51	2.24	21.16	13.20	26.62	1.00	21.31	38.37	27.08	-0.63	21.73
10.91	26.52	2.20	21.17	13.60	26.69	0.94	21.37	38.89	27.08	-0.64	21.74
11.17	26.54	2.16	21.19	14.03	26.60	0.85	21.30	39.46	27.09	-0.65	21.74
11.52	26.52	2.09	21.18	14.47	26.66	0.71	21.36	40.06	27.09	-0.66	21.74
11.82	26.52	2.01	21.18	14.90	26.72	0.68	21.41	40.57	27.10	-0.69	21.75
11.89	26.58	1.96	21.23	15.28	26.73	0.66	21.42	41.26	27.10	-0.71	21.75
				15.60	26.74	0.63	21.42	41.91	27.12	-0.72	21.77
				15.95	26.73	0.59	21.42	42.70	27.12	-0.73	21.77
				16.26	26.75	0.56	21.44	43.36	27.13	-0.75	21.77
				16.56	26.76	0.54	21.44	44.05	27.12	-0.76	21.77
				16.88	26.74	0.52	21.43	44.76	27.14	-0.78	21.78
				17.21	26.69	0.45	21.39	45.53	27.14	-0.80	21.79
				17.52	26.76	0.35	21.45	46.07	27.15	-0.82	21.79
				17.83	26.80	0.31	21.48	46.56	27.16	-0.84	21.80
				18.20	26.82	0.30	21.50	47.02	27.17	-0.85	21.81
				18.57	26.79	0.28	21.47	47.64	27.17	-0.85	21.81
				18.88	26.81	0.24	21.49	47.82	27.17	-0.85	21.81
				19.27	26.81	0.22	21.49				
				19.65	26.80	0.18	21.49				
				20.00	26.84	0.14	21.52				
				20.36	26.88	0.14	21.55				
				20.76	26.83	0.15	21.51				
				21.08	26.83	0.12	21.51				
				21.50	26.85	0.10	21.53				
				21.90	26.85	0.07	21.53				
				22.30	26.83	0.04	21.52				
				22.61	26.82	0.00	21.51				
				23.07	26.84	-0.06	21.53				
				23.46	26.81	-0.10	21.51				

ST4 - 14-Aug-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
1.00	22.83	10.37	17.42
1.06	22.83	10.52	17.39
1.11	22.86	10.57	17.41
1.22	22.99	10.57	17.51
1.56	23.58	10.41	17.99
1.82	23.58	10.22	18.02
1.95	23.62	9.80	18.11
2.05	23.80	9.35	18.32
2.24	23.96	9.12	18.47
2.51	24.06	8.98	18.57
2.74	24.17	8.89	18.67
2.96	24.30	8.81	18.78
3.18	24.40	8.67	18.88
3.40	24.44	8.59	18.92
3.61	24.50	8.51	18.98
3.81	24.59	8.33	19.07
4.05	24.45	8.12	18.99
4.27	24.47	7.71	19.06

Table A3-1.2. Open-Water Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, July-October 2011

ST5 - 14-Aug-11				ST5 - 14-Aug-11				ST5 - 14-Aug-11			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t	(m)		(°C)	σ_t
1.02	23.05	9.12	17.76	20.38	26.85	0.13	21.53	51.46	27.20	-0.91	21.83
0.97	22.64	9.79	17.35	20.83	26.85	0.09	21.53	51.98	27.20	-0.92	21.83
0.95	22.54	10.00	17.24	21.31	26.87	0.03	21.55	52.53	27.21	-0.92	21.84
0.98	22.47	10.09	17.18	21.86	26.89	-0.02	21.56	52.98	27.21	-0.92	21.84
1.00	22.44	10.15	17.14	22.43	26.89	-0.05	21.57	53.51	27.21	-0.92	21.84
1.14	22.44	10.19	17.14	23.00	26.88	-0.07	21.56	53.99	27.21	-0.93	21.84
1.31	22.48	10.18	17.17	23.59	26.89	-0.13	21.57	54.45	27.21	-0.93	21.84
1.39	22.50	10.18	17.18	24.13	26.90	-0.17	21.57	54.92	27.21	-0.93	21.84
1.62	23.00	10.08	17.59	24.63	26.90	-0.22	21.58	55.39	27.21	-0.93	21.84
1.79	23.41	9.43	18.00	25.19	26.92	-0.28	21.60	55.91	27.21	-0.94	21.84
2.00	23.66	9.19	18.23	25.74	26.96	-0.33	21.63	56.35	27.22	-0.94	21.85
2.24	23.75	9.13	18.31	26.23	27.04	-0.29	21.70	56.79	27.22	-0.94	21.85
2.44	23.80	9.09	18.35	26.74	27.02	-0.25	21.68	57.21	27.22	-0.94	21.85
2.69	23.86	9.05	18.40	27.23	27.01	-0.25	21.67	57.62	27.22	-0.95	21.85
2.92	24.05	8.92	18.57	27.76	27.00	-0.25	21.66	58.02	27.22	-0.95	21.85
3.13	24.24	8.84	18.73	28.21	27.01	-0.26	21.67	58.47	27.22	-0.95	21.86
3.40	24.24	8.79	18.74	28.64	27.01	-0.28	21.67	58.82	27.23	-0.95	21.86
3.63	24.20	8.70	18.71	29.17	27.02	-0.29	21.67	58.97	27.23	-0.95	21.86
3.84	24.36	8.26	18.90	29.58	27.02	-0.32	21.68	59.34	27.22	-0.95	21.85
4.09	24.45	7.87	19.02	30.07	27.04	-0.35	21.69	59.53	27.23	-0.95	21.86
4.38	24.73	7.28	19.31	30.54	27.03	-0.36	21.69	59.53	27.23	-0.95	21.86
4.65	25.01	6.93	19.57	31.11	27.04	-0.38	21.70	59.48	27.23	-0.95	21.86
4.93	24.93	6.79	19.52	31.78	27.04	-0.40	21.70	59.62	27.23	-0.95	21.86
5.23	24.92	6.09	19.59	32.35	27.05	-0.42	21.70	59.82	27.23	-0.95	21.86
5.53	25.32	4.95	20.02	32.82	27.05	-0.46	21.70	60.07	27.23	-0.95	21.86
5.84	25.68	4.23	20.36	33.41	27.04	-0.50	21.70	60.34	27.23	-0.95	21.86
6.23	25.76	3.74	20.47	34.05	27.04	-0.56	21.70	60.77	27.23	-0.95	21.86
6.56	25.97	3.41	20.66	34.63	27.05	-0.61	21.71	61.26	27.23	-0.95	21.86
6.86	26.05	3.23	20.73	35.32	27.07	-0.65	21.73	61.70	27.23	-0.95	21.86
7.20	26.20	3.05	20.87	35.86	27.09	-0.69	21.74	62.04	27.23	-0.95	21.86
7.45	26.13	3.02	20.81	36.36	27.10	-0.71	21.75	62.94	27.24	-0.95	21.87
7.85	26.18	2.52	20.89	36.89	27.11	-0.72	21.76	63.44	27.24	-0.95	21.87
8.29	26.34	2.29	21.03	37.38	27.11	-0.73	21.76	64.00	27.24	-0.95	21.87
8.69	26.40	2.20	21.08	37.95	27.12	-0.74	21.77	64.53	27.25	-0.95	21.87
9.09	26.43	2.16	21.10	38.51	27.14	-0.75	21.78	65.01	27.25	-0.95	21.87
9.52	26.53	2.12	21.19	39.01	27.14	-0.76	21.78	65.63	27.26	-0.95	21.89
9.90	26.40	2.10	21.08	39.51	27.14	-0.76	21.78	66.40	27.27	-0.94	21.89
10.33	26.45	1.96	21.13	39.74	27.15	-0.77	21.79	67.08	27.27	-0.94	21.89
10.85	26.48	1.90	21.16	40.19	27.14	-0.77	21.79	67.57	27.27	-0.94	21.89
11.35	26.44	1.84	21.13	40.72	27.15	-0.77	21.79	67.74	27.27	-0.94	21.89
11.67	26.45	1.69	21.14	41.16	27.15	-0.78	21.79	68.17	27.27	-0.94	21.89
12.09	26.49	1.50	21.18	41.61	27.15	-0.79	21.79	69.00	27.27	-0.94	21.89
12.46	26.49	1.30	21.19	42.11	27.15	-0.80	21.79	69.62	27.27	-0.94	21.89
12.87	26.58	1.05	21.28	42.64	27.15	-0.80	21.79	70.13	27.27	-0.94	21.89
13.31	26.66	0.92	21.35	43.15	27.16	-0.81	21.80	70.35	27.27	-0.94	21.89
13.69	26.60	0.83	21.31	43.63	27.16	-0.82	21.80	71.10	27.27	-0.94	21.89
14.12	26.74	0.68	21.42	44.17	27.16	-0.83	21.80	71.40	27.27	-0.94	21.89
14.50	26.72	0.65	21.41	44.57	27.16	-0.83	21.80				
14.96	26.77	0.58	21.45	45.09	27.16	-0.84	21.80				
15.35	26.75	0.52	21.43	45.74	27.16	-0.85	21.80				
15.77	26.78	0.43	21.47	46.33	27.17	-0.85	21.81				
16.19	26.80	0.39	21.48	46.90	27.17	-0.85	21.81				
16.56	26.81	0.36	21.49	47.40	27.17	-0.86	21.81				
16.95	26.80	0.31	21.48	47.99	27.17	-0.86	21.81				
17.40	26.82	0.26	21.50	48.48	27.18	-0.87	21.82				
17.88	26.85	0.24	21.53	48.93	27.18	-0.88	21.82				
18.23	26.86	0.23	21.53	49.49	27.18	-0.88	21.82				
18.68	26.87	0.23	21.54	50.03	27.18	-0.89	21.82				
19.25	26.85	0.21	21.53	50.50	27.19	-0.90	21.82				
19.83	26.85	0.17	21.53	50.95	27.20	-0.91	21.83				

ST6 - 14-Aug-11			
Depth	Salinity	Temp	Density
(m)		(°C)	σ_t
1.08	24.34	7.88	18.93
1.13	23.29	9.49	17.90
1.09	23.00	9.97	17.61
1.12	22.88	10.17	17.48
1.11	22.83	10.28	17.43
1.14	22.80	10.35	17.39
1.25	22.77	10.39	17.37
1.31	22.75	10.42	17.35

Table A3-1.2. Open-Water Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, July-October 2011

ST6 - 14-Aug-11				ST6 - 14-Aug-11				ST6 - 14-Aug-11			
Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density	Depth	Salinity	Temp	Density
(m)		(°C)	σ_t	(m)		(°C)	σ_t	(m)		(°C)	σ_t
1.20	22.74	10.44	17.34	24.51	26.83	-0.18	21.52	62.69	27.27	-0.96	21.89
1.62	22.73	10.46	17.33	24.83	26.94	-0.24	21.61	63.28	27.27	-0.96	21.89
1.97	22.75	10.45	17.34	25.36	26.96	-0.26	21.63	64.00	27.27	-0.95	21.89
2.23	22.77	10.41	17.36	25.91	26.97	-0.28	21.64	64.48	27.27	-0.95	21.89
2.34	22.80	10.36	17.40	26.39	26.97	-0.29	21.64	65.26	27.27	-0.95	21.89
2.56	23.02	10.03	17.61	26.64	26.98	-0.29	21.65	66.10	27.27	-0.95	21.89
2.76	23.21	9.76	17.80	27.34	27.02	-0.29	21.68	66.79	27.27	-0.95	21.89
2.90	23.67	9.15	18.24	28.03	27.03	-0.28	21.68	67.45	27.27	-0.95	21.89
3.13	23.93	8.78	18.50	28.75	27.02	-0.27	21.68	68.27	27.27	-0.95	21.89
3.35	24.07	8.68	18.62	29.40	26.99	-0.29	21.66	69.03	27.28	-0.95	21.90
3.65	24.04	8.64	18.60	30.08	26.97	-0.35	21.64	69.71	27.28	-0.95	21.90
3.86	23.92	8.46	18.53	30.65	27.04	-0.43	21.69	70.43	27.28	-0.95	21.90
4.19	24.51	7.76	19.08	31.28	27.03	-0.46	21.68	71.07	27.28	-0.95	21.90
4.48	24.70	6.58	19.37	31.94	27.05	-0.51	21.71	71.70	27.28	-0.95	21.90
4.73	25.00	5.64	19.70	32.60	27.07	-0.54	21.72	72.37	27.28	-0.95	21.90
4.92	25.30	4.70	20.03	33.18	27.07	-0.57	21.73	72.94	27.28	-0.95	21.90
5.03	25.78	4.00	20.46	33.87	27.08	-0.61	21.73	73.41	27.29	-0.95	21.91
5.33	25.74	3.64	20.46	34.61	27.09	-0.66	21.74	73.71	27.29	-0.95	21.91
5.52	25.97	3.28	20.67	35.33	27.10	-0.70	21.75	74.23	27.29	-0.94	21.90
5.89	26.12	2.99	20.80	35.86	27.12	-0.72	21.77	74.84	27.29	-0.94	21.91
6.10	26.21	2.76	20.89	36.39	27.13	-0.73	21.78	75.48	27.29	-0.94	21.90
6.37	26.31	2.56	20.98	37.05	27.14	-0.75	21.78	75.91	27.29	-0.94	21.91
6.85	26.28	2.43	20.97	37.73	27.15	-0.76	21.79	76.40	27.29	-0.94	21.91
7.34	26.38	2.22	21.06	38.40	27.15	-0.77	21.80	76.95	27.29	-0.94	21.91
7.74	26.44	2.10	21.11	38.82	27.16	-0.79	21.80	77.40	27.29	-0.94	21.91
8.22	26.46	2.01	21.14	39.46	27.17	-0.79	21.81	78.11	27.30	-0.94	21.91
8.58	26.40	1.91	21.09	40.23	27.17	-0.81	21.81	78.17	27.30	-0.94	21.91
8.71	26.51	1.80	21.18	40.82	27.18	-0.82	21.81	78.34	27.29	-0.94	21.91
9.02	26.48	1.74	21.17	41.55	27.18	-0.83	21.82	78.70	27.29	-0.94	21.91
9.52	26.55	1.66	21.23	42.22	27.18	-0.84	21.82	78.85	27.30	-0.94	21.91
9.94	26.56	1.62	21.24	42.94	27.19	-0.85	21.82	79.37	27.30	-0.94	21.91
10.25	26.57	1.59	21.24	43.69	27.19	-0.86	21.83	79.84	27.30	-0.94	21.91
10.81	26.56	1.50	21.24	44.29	27.19	-0.88	21.83	80.35	27.29	-0.94	21.91
11.32	26.55	1.37	21.24	44.84	27.20	-0.89	21.84	80.36	27.30	-0.94	21.92
11.59	26.60	1.26	21.29	45.46	27.20	-0.90	21.84	80.22	27.30	-0.94	21.92
12.15	26.58	1.11	21.28	46.13	27.20	-0.90	21.84	80.31	27.30	-0.94	21.92
12.59	26.66	1.01	21.34	46.77	27.21	-0.92	21.84	80.28	27.30	-0.94	21.91
13.05	26.68	0.97	21.36	47.50	27.22	-0.92	21.85	80.71	27.30	-0.94	21.91
13.51	26.70	0.95	21.38	48.21	27.22	-0.93	21.85	81.07	27.30	-0.94	21.92
13.81	26.70	0.93	21.38	48.86	27.22	-0.93	21.85	81.60	27.30	-0.94	21.91
14.24	26.66	0.83	21.35	49.40	27.23	-0.94	21.86	81.84	27.30	-0.94	21.91
14.72	26.72	0.73	21.41	50.05	27.23	-0.94	21.86	81.99	27.30	-0.94	21.92
15.19	26.72	0.67	21.40	50.71	27.23	-0.95	21.86	82.19	27.30	-0.94	21.92
15.75	26.75	0.59	21.44	51.40	27.24	-0.95	21.87	82.35	27.30	-0.94	21.91
16.33	26.77	0.55	21.45	51.99	27.24	-0.95	21.87				
16.81	26.78	0.52	21.46	52.13	27.24	-0.96	21.87				
17.26	26.79	0.51	21.47	52.70	27.24	-0.96	21.87				
17.75	26.79	0.50	21.47	53.42	27.24	-0.96	21.87				
18.14	26.80	0.49	21.48	53.85	27.24	-0.96	21.87				
18.65	26.80	0.49	21.47	54.65	27.24	-0.96	21.87				
19.12	26.77	0.41	21.46	55.34	27.25	-0.96	21.87				
19.64	26.79	0.33	21.48	56.19	27.25	-0.96	21.87				
20.01	26.83	0.28	21.50	57.12	27.25	-0.96	21.87				
20.62	26.83	0.26	21.51	57.91	27.25	-0.96	21.87				
21.14	26.85	0.24	21.52	58.49	27.25	-0.96	21.87				
21.52	26.85	0.23	21.52	59.23	27.25	-0.96	21.88				
22.08	26.84	0.22	21.52	59.99	27.26	-0.96	21.88				
22.78	26.84	0.21	21.52	60.38	27.26	-0.96	21.88				
23.46	26.80	0.15	21.48	61.23	27.26	-0.96	21.88				
24.03	26.75	0.02	21.45	62.00	27.26	-0.96	21.88				

ST6B - 14-Aug-11			
Depth	Salinity	Temp	Density
(m)		(°C)	σ_t
1.08	23.69	8.95	18.28
1.06	23.46	9.30	18.06
1.08	23.37	9.45	17.97
1.12	23.32	9.53	17.92
1.12	23.30	9.58	17.89
1.11	23.28	9.61	17.88
1.11	23.27	9.63	17.86
1.01	23.26	9.64	17.85
1.03	23.24	9.65	17.84
1.08	23.24	9.65	17.84
1.06	23.24	9.66	17.84

Table A3-1.2. Open-Water Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, July-October 2011

ST6B - 14-Aug-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
1.05	23.24	9.67	17.84
1.05	23.24	9.68	17.83
1.00	23.23	9.68	17.83
1.00	23.23	9.68	17.82
1.01	23.23	9.68	17.82
0.96	23.23	9.69	17.82
1.27	23.23	9.69	17.83
1.55	23.23	9.70	17.82
1.63	23.22	9.70	17.81
1.63	23.23	9.68	17.83
1.97	23.24	9.68	17.83
2.38	23.25	9.65	17.85
2.80	23.03	9.20	17.73
3.27	24.11	7.75	18.77
3.56	24.16	7.13	18.88
3.75	24.30	6.55	19.05
4.10	24.87	5.30	19.63
4.56	25.21	4.64	19.95
5.15	25.44	4.14	20.18
5.74	25.32	3.68	20.12
6.27	25.85	2.82	20.60
6.72	26.11	2.39	20.84
7.06	26.27	2.21	20.97
7.60	26.32	2.10	21.02
8.23	26.41	1.91	21.10
8.62	26.47	1.76	21.16
9.10	26.44	1.52	21.14
9.76	26.50	1.37	21.20
10.32	26.60	1.28	21.29
10.83	26.60	1.23	21.29
11.28	26.61	1.18	21.30
11.73	26.59	1.13	21.28
12.08	26.58	1.00	21.28
12.71	26.49	0.84	21.21
13.39	26.64	0.62	21.34
13.90	26.64	0.52	21.34
14.40	26.69	0.33	21.39
15.04	26.79	0.23	21.47
15.48	26.82	0.19	21.50
15.94	26.84	0.16	21.52
16.49	26.82	0.10	21.51
17.09	26.83	0.04	21.52
17.70	26.83	-0.04	21.51
18.22	26.88	-0.09	21.56
18.71	26.89	-0.10	21.57
19.16	26.90	-0.10	21.58
19.60	26.91	-0.11	21.59
19.97	26.91	-0.11	21.58
20.24	26.91	-0.11	21.58
20.67	26.90	-0.12	21.57
20.98	26.87	-0.16	21.56
21.46	26.89	-0.24	21.57
22.07	26.92	-0.28	21.60
22.71	26.91	-0.30	21.59
23.12	26.95	-0.34	21.62
23.48	26.92	-0.37	21.60
23.82	26.95	-0.42	21.62
24.42	26.97	-0.45	21.64
25.23	27.01	-0.44	21.67
25.97	27.00	-0.44	21.67

ST6B - 14-Aug-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
26.57	27.00	-0.46	21.66
27.17	27.00	-0.50	21.67
27.57	27.01	-0.52	21.67
28.19	27.00	-0.54	21.67
28.91	27.03	-0.58	21.69
29.48	27.05	-0.60	21.71
30.17	27.05	-0.60	21.71
30.94	27.06	-0.60	21.71
31.57	27.08	-0.60	21.73
32.07	27.09	-0.61	21.74
32.48	27.08	-0.62	21.73
33.05	27.08	-0.64	21.73
33.74	27.08	-0.66	21.74
34.24	27.06	-0.68	21.72
34.59	27.10	-0.73	21.75
35.23	27.11	-0.75	21.76
35.89	27.11	-0.77	21.76
36.51	27.12	-0.79	21.77
37.27	27.15	-0.81	21.79
38.03	27.15	-0.81	21.79
38.68	27.15	-0.81	21.79
39.42	27.16	-0.82	21.80
40.10	27.16	-0.83	21.80
40.74	27.16	-0.84	21.80
41.28	27.17	-0.85	21.81
41.82	27.18	-0.85	21.81
42.47	27.18	-0.86	21.82
43.00	27.19	-0.87	21.82
43.52	27.19	-0.88	21.82
44.10	27.19	-0.89	21.83
44.72	27.21	-0.89	21.84
45.39	27.20	-0.90	21.83
45.98	27.20	-0.91	21.83
46.55	27.22	-0.92	21.85
47.18	27.22	-0.92	21.85
48.02	27.22	-0.93	21.85
48.83	27.23	-0.94	21.86
49.70	27.23	-0.94	21.86
50.41	27.23	-0.94	21.86
51.19	27.24	-0.94	21.87
51.89	27.24	-0.94	21.87
52.27	27.24	-0.95	21.87
53.02	27.24	-0.95	21.87
53.70	27.24	-0.95	21.87
54.41	27.25	-0.95	21.88
55.10	27.25	-0.95	21.88
55.55	27.26	-0.95	21.88
56.10	27.25	-0.95	21.88
56.78	27.26	-0.95	21.88
56.87	27.26	-0.95	21.88

RBW - 11-Sep-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
0.32	20.58	11.45	15.51
0.86	23.85	6.28	18.73
1.16	24.83	4.89	19.64
2.06	25.22	4.37	19.99
2.68	25.41	4.11	20.16

RBW - 11-Sep-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
3.22	25.53	3.96	20.26
3.61	25.63	3.81	20.35
4.75	25.65	3.57	20.39
4.97	25.87	3.27	20.58

ST2 - 11-Sep-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
0.61	22.08	8.88	17.04
1.40	24.77	4.69	19.60
2.50	25.46	3.72	20.23
3.35	25.78	3.32	20.51
4.12	25.96	3.10	20.67
4.86	26.00	2.97	20.71
4.94	26.11	2.88	20.80
5.27	26.14	2.80	20.83
5.27	26.17	2.76	20.86
6.04	26.20	2.69	20.89

ST3 - 11-Sep-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
0.88	23.99	5.76	18.89
1.57	25.27	3.96	20.06
2.46	25.70	3.40	20.44
3.29	25.91	3.15	20.62
4.18	26.02	3.02	20.72
4.92	26.07	2.95	20.77
5.88	26.11	2.90	20.81
6.19	26.13	2.86	20.82
7.03	26.15	2.84	20.84
8.26	26.16	2.83	20.85
9.31	26.18	2.81	20.86
10.39	26.16	2.77	20.85
10.98	26.19	2.65	20.88

ST4 - 11-Sep-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
0.54	15.25	8.06	11.80
0.88	25.05	4.34	19.85
1.63	25.60	3.62	20.35
2.33	25.82	3.33	20.54
2.89	25.93	3.18	20.64
3.54	25.99	3.09	20.70
4.69	26.03	3.05	20.73
5.77	26.06	3.01	20.75
6.82	26.07	2.97	20.77
7.72	26.09	2.94	20.79
8.80	26.10	2.89	20.80
9.79	26.13	2.85	20.82
10.43	26.15	2.83	20.84
11.33	26.16	2.81	20.85
12.55	26.16	2.80	20.85
14.05	26.17	2.77	20.86
15.01	26.20	2.69	20.89
16.13	26.25	2.52	20.94

Table A3-1.2. Open-Water Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, July-October 2011

ST4 - 11-Sep-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
17.34	26.33	2.42	21.01
18.60	26.34	2.36	21.02
19.38	26.41	2.27	21.08
20.24	26.33	2.20	21.02
21.52	26.38	1.97	21.08
22.66	26.45	1.65	21.15
24.04	26.52	1.31	21.22
25.35	26.58	1.04	21.28
26.25	26.72	0.77	21.40
27.27	26.76	0.52	21.44
28.22	26.83	0.34	21.51
29.09	26.90	0.22	21.56
30.01	26.92	0.14	21.58
31.21	26.95	0.04	21.61
32.43	26.99	-0.04	21.65
33.51	26.99	-0.09	21.65
34.67	27.00	-0.14	21.65
35.54	27.02	-0.24	21.68
36.65	27.04	-0.34	21.69
37.79	27.09	-0.42	21.74
38.86	27.10	-0.48	21.74
39.87	27.14	-0.53	21.78
40.96	27.18	-0.58	21.81
42.11	27.20	-0.60	21.83
43.19	27.21	-0.62	21.84
44.36	27.22	-0.62	21.84
45.44	27.23	-0.64	21.85
46.31	27.25	-0.65	21.87
47.11	27.28	-0.65	21.89

ST5 - 11-Sep-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
0.73	25.10	4.26	19.90
1.54	25.62	3.63	20.36
2.65	25.79	3.39	20.52
3.41	25.88	3.28	20.60
4.19	25.93	3.21	20.64
5.08	25.96	3.17	20.66
6.19	25.97	3.13	20.68
7.45	26.00	3.09	20.70
8.54	26.04	3.04	20.74
9.70	26.07	3.01	20.77
10.85	26.09	2.98	20.78
11.86	26.09	2.96	20.78
12.80	26.10	2.94	20.79
13.68	26.10	2.94	20.79
14.36	26.10	2.93	20.79
14.99	26.10	2.91	20.80
15.74	26.14	2.84	20.83
16.41	26.19	2.79	20.87
17.36	26.21	2.69	20.89
18.37	26.23	2.52	20.93
19.37	26.30	2.31	20.99
20.04	26.38	2.12	21.07
20.62	26.45	2.02	21.13
21.45	26.46	1.95	21.14
22.33	26.48	1.73	21.17
23.26	26.57	1.44	21.25

ST5 - 11-Sep-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
24.15	26.60	1.04	21.29
24.82	26.69	0.82	21.38
25.80	26.76	0.61	21.44
26.56	26.85	0.40	21.52
27.46	26.88	0.29	21.55
28.09	26.95	0.20	21.61
28.93	26.96	0.12	21.62
29.71	26.92	0.00	21.59
30.73	26.99	-0.14	21.65
31.57	27.02	-0.24	21.68
32.28	27.07	-0.32	21.72
32.77	27.09	-0.37	21.74
33.63	27.12	-0.41	21.76
34.54	27.13	-0.46	21.77
35.53	27.15	-0.51	21.79
36.37	27.15	-0.54	21.79
37.23	27.16	-0.57	21.80
37.68	27.19	-0.60	21.82
38.62	27.22	-0.61	21.84
39.51	27.22	-0.62	21.85
40.36	27.24	-0.64	21.86
40.36	27.24	-0.65	21.86
41.35	27.25	-0.66	21.87
42.88	27.24	-0.67	21.86
43.88	27.27	-0.69	21.89
44.51	27.28	-0.70	21.90
44.77	27.29	-0.70	21.91
45.57	27.29	-0.71	21.90
46.88	27.29	-0.71	21.90
48.21	27.30	-0.71	21.92
49.35	27.31	-0.70	21.92
50.80	27.32	-0.70	21.93
51.09	27.33	-0.70	21.93
52.02	27.33	-0.70	21.94
53.02	27.34	-0.69	21.95
53.39	27.34	-0.69	21.95
53.92	27.34	-0.68	21.95
55.03	27.36	-0.67	21.96
55.65	27.36	-0.66	21.96
56.48	27.36	-0.66	21.96
57.22	27.37	-0.66	21.96
58.52	27.36	-0.66	21.96
58.91	27.36	-0.66	21.96
60.06	27.37	-0.66	21.97
61.07	27.38	-0.66	21.98
62.19	27.37	-0.65	21.97
62.74	27.38	-0.65	21.98
63.24	27.38	-0.65	21.98
64.45	27.38	-0.65	21.98
64.49	27.38	-0.65	21.98
65.44	27.39	-0.65	21.98
66.28	27.40	-0.64	21.99
67.69	27.41	-0.62	22.00
68.84	27.42	-0.61	22.01
69.72	27.42	-0.60	22.00
70.79	27.41	-0.59	22.00
70.96	27.42	-0.59	22.00
71.36	27.41	-0.59	22.00
72.01	27.42	-0.59	22.00
72.39	27.42	-0.59	22.00

ST5 - 11-Sep-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
72.79	27.42	-0.59	22.00

ST6 - 11-Sep-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
0.96	25.38	4.08	20.14
2.70	25.65	3.72	20.38
3.15	25.74	3.60	20.46
4.37	25.79	3.54	20.50
5.10	25.81	3.51	20.53
5.78	25.83	3.50	20.54
6.76	25.83	3.50	20.54
8.01	25.83	3.49	20.54
8.81	25.84	3.46	20.55
10.27	25.88	3.29	20.59
11.31	25.97	3.14	20.67
12.26	26.05	3.05	20.75
13.40	26.07	3.01	20.76
14.56	26.09	2.93	20.78
15.34	26.15	2.84	20.84
16.39	26.21	2.77	20.89
17.22	26.28	2.75	20.95
18.17	26.21	2.53	20.91
18.99	26.40	2.25	21.08
19.42	26.49	2.16	21.15
20.60	26.43	2.09	21.11
21.50	26.50	1.88	21.17
22.34	26.57	1.66	21.24
23.46	26.55	1.46	21.24
24.84	26.59	0.94	21.29
26.18	26.77	0.56	21.45
27.55	26.82	0.35	21.49
28.18	26.92	0.10	21.59
28.91	26.97	-0.02	21.63
29.55	27.02	-0.11	21.67
30.36	27.06	-0.19	21.70
30.89	27.10	-0.25	21.74
31.86	27.11	-0.29	21.75
33.02	27.09	-0.33	21.74
33.89	27.12	-0.41	21.76
34.55	27.13	-0.45	21.77
35.60	27.15	-0.51	21.79
36.62	27.18	-0.56	21.81
37.64	27.18	-0.59	21.81
38.91	27.23	-0.64	21.86
39.51	27.25	-0.65	21.87
39.33	27.26	-0.66	21.88
39.30	27.27	-0.66	21.89
40.39	27.25	-0.67	21.87
41.16	27.27	-0.69	21.89
41.81	27.28	-0.70	21.89
43.05	27.29	-0.70	21.90
44.05	27.30	-0.69	21.91
44.84	27.31	-0.70	21.92
45.49	27.32	-0.70	21.93
46.55	27.33	-0.69	21.93
47.78	27.33	-0.70	21.94
48.27	27.33	-0.69	21.93
49.25	27.36	-0.70	21.96

Table A3-1.2. Open-Water Data for Temperature, Salinity and Density in Roberts Bay, Doris North Project, July-October 2011

ST6 - 11-Sep-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
50.11	27.37	-0.70	21.97
50.78	27.37	-0.69	21.97
51.68	27.37	-0.69	21.97
52.71	27.37	-0.69	21.97
53.77	27.38	-0.68	21.97
54.82	27.38	-0.68	21.98
55.48	27.39	-0.67	21.98
56.18	27.39	-0.67	21.99
56.95	27.40	-0.66	21.99
57.80	27.41	-0.65	22.00
58.42	27.41	-0.64	22.00
59.08	27.40	-0.64	21.99
59.94	27.40	-0.63	21.99
61.03	27.41	-0.63	22.00
61.82	27.41	-0.63	22.00
62.75	27.41	-0.63	22.00
63.99	27.40	-0.63	21.99
64.87	27.41	-0.63	22.00
66.05	27.42	-0.63	22.00
67.11	27.42	-0.62	22.01
67.96	27.42	-0.62	22.01
69.16	27.42	-0.61	22.01
70.17	27.43	-0.61	22.01
70.99	27.42	-0.60	22.01
71.52	27.43	-0.60	22.01
72.42	27.44	-0.60	22.02
73.19	27.44	-0.59	22.03
73.97	27.44	-0.58	22.02
74.82	27.44	-0.57	22.02
75.81	27.44	-0.57	22.02
76.78	27.46	-0.57	22.04
77.69	27.46	-0.56	22.04
78.51	27.46	-0.55	22.04
79.25	27.46	-0.54	22.04
79.91	27.46	-0.53	22.04
80.64	27.47	-0.53	22.05
80.88	27.47	-0.52	22.04

ST6B - 25-Sep-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
0.87	26.56	2.61	21.18
1.01	26.14	3.12	20.82
1.10	26.03	3.26	20.72
1.38	25.99	3.32	20.68
1.46	25.96	3.35	20.65
2.30	25.95	3.37	20.64
2.97	25.93	3.38	20.63
3.40	25.94	3.38	20.63
4.16	25.93	3.38	20.63
5.25	25.93	3.39	20.63
5.96	25.93	3.39	20.63
6.86	25.93	3.39	20.63
7.62	25.93	3.39	20.62
8.08	25.93	3.39	20.63
9.33	25.93	3.39	20.62
10.41	25.93	3.38	20.62
11.59	25.93	3.38	20.62
12.66	25.93	3.39	20.63

ST6B - 25-Sep-11			
Depth (m)	Salinity	Temp (°C)	Density σ_t
13.92	25.94	3.38	20.63
15.21	25.93	3.38	20.63
16.43	25.90	3.38	20.60
16.97	25.93	3.38	20.62
18.15	25.95	3.38	20.64
19.26	25.90	3.39	20.60
19.95	25.94	3.38	20.63
20.69	25.92	3.38	20.62
21.22	25.90	3.39	20.61
22.00	25.93	3.38	20.63
22.64	25.92	3.38	20.62
23.62	25.93	3.37	20.63
24.61	25.95	3.36	20.64
25.81	25.86	3.34	20.58
26.61	25.96	3.33	20.66
27.31	25.95	3.33	20.64
28.15	25.97	3.32	20.67
29.04	25.90	3.31	20.61
30.47	25.95	3.27	20.65
31.92	25.80	3.08	20.55
33.07	25.96	2.19	20.73
33.84	26.41	1.53	21.12
34.54	26.44	1.21	21.16
35.78	26.66	0.76	21.35
36.65	26.82	0.52	21.49
37.19	26.78	0.37	21.46
38.44	26.86	0.17	21.54
39.19	26.98	-0.02	21.64
39.78	26.98	-0.08	21.64
40.71	27.10	-0.14	21.73
41.18	27.07	-0.22	21.72
41.70	27.10	-0.28	21.74
42.47	27.09	-0.38	21.74
43.42	27.11	-0.47	21.75
44.17	27.19	-0.49	21.82
45.10	27.21	-0.51	21.83
45.63	27.20	-0.55	21.83
46.58	27.22	-0.59	21.84
47.21	27.25	-0.61	21.87
47.88	27.29	-0.62	21.90
48.29	27.25	-0.65	21.87
48.93	27.28	-0.65	21.90
49.56	27.31	-0.65	21.92
50.73	27.32	-0.65	21.93
51.65	27.31	-0.65	21.91
52.15	27.33	-0.65	21.93
52.94	27.35	-0.64	21.95
54.62	27.34	-0.64	21.94
55.54	27.35	-0.65	21.96
55.61	27.36	-0.64	21.96

Table A3-1.3. Under-Ice Data for Dissolved Oxygen in Roberts Bay, Doris North Project, March-May 2011

WT8 - 18-Mar-11			WT8 - 18-Mar-11			WT4 - 23-Apr-11		
Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)		(mg/L)	(% Saturation)		(mg/L)	(% Saturation)
1.78	14.09	111.57	27.16	12.27	97.29	1.50	11.90	94.61
2.54	13.96	110.59	27.39	12.27	97.28	1.86	11.90	94.59
2.98	13.92	110.24	28.05	12.27	97.34	1.87	11.91	94.64
3.30	13.79	109.24	28.45	12.26	97.31	1.87	11.90	94.57
3.37	13.66	108.22	28.98	12.28	97.60	1.88	11.91	94.63
3.39	13.58	107.60	29.51	12.26	97.52	1.88	11.90	94.61
3.43	13.51	107.01	30.28	12.26	97.72	1.88	11.90	94.61
3.65	13.40	106.19	30.93	12.22	97.36	1.88	11.90	94.59
3.91	13.32	105.51	31.41	12.20	97.29	1.88	11.91	94.62
4.23	13.25	104.96	31.62	12.18	97.13	1.88	11.90	94.54
4.70	13.19	104.53	32.41	12.17	97.15	1.88	11.90	94.55
5.12	13.11	103.91	33.32	12.16	97.44	1.88	11.90	94.57
5.53	13.05	103.41	33.90	12.11	97.46	1.89	11.90	94.60
5.75	13.00	103.03	34.54	12.05	97.32	1.89	11.90	94.58
6.18	12.94	102.56	35.28	11.94	96.92	1.89	11.90	94.55
6.37	12.90	102.24	35.76	0.00	0.00	1.89	11.90	94.60
6.71	12.87	101.98	36.58	11.71	95.46	2.33	11.89	94.49
6.96	12.83	101.66	37.33	11.63	94.89	2.86	11.89	94.54
7.68	12.79	101.39	37.84	11.53	94.18	2.90	11.89	94.54
7.98	12.76	101.10	38.26	11.44	93.57	2.90	11.90	94.57
8.34	12.72	100.84	38.50	11.35	92.93	2.90	11.89	94.52
8.68	12.69	100.59	38.86	11.26	92.25	2.90	11.90	94.57
9.00	12.66	100.37	39.14	11.18	91.61	2.90	11.90	94.60
9.31	12.63	100.10	40.04	11.09	90.88	2.91	11.90	94.56
9.62	12.61	99.95	40.96	11.01	90.19	2.92	11.91	94.62
10.00	12.59	99.78	41.57	10.96	89.78	2.92	11.90	94.58
10.28	12.57	99.61	42.05	10.90	89.28	2.92	11.89	94.53
10.87	12.54	99.39	42.66	10.85	88.88	2.92	11.90	94.59
11.11	12.52	99.24	43.49	10.80	88.55	2.92	11.90	94.57
11.50	12.50	99.05	44.02	10.75	88.16	2.93	11.89	94.50
12.04	12.48	98.92	44.04	10.70	87.76	2.93	11.89	94.52
12.55	12.46	98.77				2.93	11.90	94.58
12.89	12.44	98.60				2.93	11.90	94.59
13.00	12.43	98.52				2.93	11.90	94.54
13.38	12.42	98.44				2.96	11.89	94.53
13.83	12.41	98.35				3.79	11.89	94.52
13.97	12.39	98.25				3.88	11.90	94.61
14.36	12.39	98.18				3.88	11.90	94.55
14.81	12.38	98.14				3.88	11.89	94.49
15.45	12.37	98.03				3.88	11.89	94.52
15.71	12.36	97.99				3.88	11.88	94.44
16.43	12.35	97.90				3.88	11.90	94.56
16.83	12.34	97.83				3.88	11.89	94.53
17.39	12.33	97.77				3.88	11.90	94.57
17.70	12.33	97.74				3.89	11.90	94.57
18.17	12.32	97.69				3.89	11.89	94.52
18.61	12.32	97.64				3.89	11.89	94.52
19.15	12.31	97.64				3.89	11.90	94.55
19.56	12.30	97.54				3.89	11.90	94.55
19.94	12.30	97.51				3.89	11.89	94.47
20.52	12.30	97.48				3.89	11.89	94.50
21.04	12.29	97.40				3.89	11.89	94.52
21.59	12.29	97.40				3.89	11.90	94.57
21.94	12.29	97.41				3.89	11.89	94.48
22.46	12.28	97.36				3.89	11.90	94.56
23.16	12.28	97.36				3.89	11.89	94.50
23.75	12.28	97.38				3.89	11.90	94.54
24.23	12.27	97.32				3.89	11.90	94.54
25.51	12.27	97.30				3.89	11.89	94.52
26.18	12.27	97.30				3.90	11.89	94.51

RBW - 24-Apr-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
1.80	12.29	95.20
2.11	12.28	95.12
2.88	12.29	95.22
3.16	12.29	95.28
3.97	12.30	95.41
4.26	12.30	95.49
4.67	12.30	95.49
4.90	12.30	95.52
5.16	12.35	95.80

WT2 - 21-Apr-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
1.51	13.29	107.08
1.60	13.18	106.23
1.71	13.08	105.40
1.79	13.02	104.89
1.86	13.18	106.24
1.98	13.21	106.48
2.12	13.05	105.17
2.55	13.00	104.69

Table A3-1.3. Under-Ice Data for Dissolved Oxygen in Roberts Bay, Doris North Project, March-May 2011

WT4 - 23-Apr-11			WT4 - 23-Apr-11			WT4 - 23-Apr-11		
Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)		(mg/L)	(% Saturation)		(mg/L)	(% Saturation)
3.90	11.89	94.48	7.77	11.89	94.47	11.73	11.87	94.31
3.93	11.89	94.51	7.77	11.89	94.47	11.73	11.86	94.27
4.81	11.88	94.40	7.77	11.89	94.50	11.73	11.86	94.27
4.87	11.89	94.46	7.77	11.89	94.49	11.73	11.87	94.37
4.87	11.90	94.55	7.78	11.89	94.52	11.73	11.88	94.40
4.87	11.88	94.44	7.78	11.88	94.44	11.73	11.87	94.35
4.88	11.89	94.47	7.78	11.89	94.47	11.73	11.87	94.38
4.88	11.88	94.43	7.78	11.89	94.47	11.73	11.87	94.31
4.88	11.88	94.45	7.78	11.89	94.47	11.74	11.87	94.38
4.88	11.88	94.45	7.78	11.89	94.47	11.74	11.87	94.37
4.88	11.89	94.47	7.78	11.89	94.47	11.74	11.87	94.37
4.88	11.89	94.47	7.78	11.88	94.46	11.74	11.87	94.35
4.88	11.89	94.47	7.78	11.88	94.43	11.74	11.87	94.31
4.88	11.89	94.47	7.79	11.89	94.46	11.74	11.88	94.41
4.88	11.89	94.47	7.81	11.88	94.45	11.74	11.87	94.35
4.88	11.88	94.45	7.81	11.88	94.42	11.74	11.87	94.34
5.65	11.88	94.39	7.97	11.88	94.41	11.74	11.88	94.40
5.73	11.87	94.37	8.80	11.88	94.42	11.74	11.87	94.37
5.83	11.88	94.45	8.80	11.88	94.42	11.92	11.86	94.26
5.83	11.88	94.43	8.82	11.87	94.37	13.12	11.85	94.18
5.84	11.89	94.50	8.83	11.88	94.42	13.66	11.85	94.15
5.86	11.88	94.39	8.84	11.88	94.39	13.68	11.85	94.20
5.90	11.88	94.44	8.84	11.89	94.48	13.69	11.85	94.20
5.91	11.88	94.42	8.84	11.88	94.42	13.69	11.86	94.25
5.91	11.88	94.42	8.84	11.89	94.48	13.69	11.86	94.27
5.91	11.89	94.49	8.84	11.88	94.45	13.69	11.86	94.30
5.91	11.88	94.42	8.84	11.88	94.42	13.69	11.86	94.24
5.91	11.88	94.42	8.84	11.88	94.42	13.69	11.86	94.25
5.92	11.88	94.41	8.84	11.88	94.40	13.69	11.86	94.23
5.92	11.88	94.45	8.84	11.88	94.39	13.69	11.86	94.28
5.92	11.88	94.43	8.84	11.88	94.41	13.69	11.86	94.25
5.92	11.88	94.40	8.84	11.88	94.41	13.69	11.86	94.27
5.92	11.88	94.44	8.85	11.88	94.46	13.69	11.86	94.24
5.92	11.88	94.39	8.85	11.88	94.42	13.69	11.87	94.32
5.92	11.88	94.44	8.85	11.88	94.43	13.69	11.85	94.22
5.92	11.88	94.46	8.85	11.88	94.45	13.69	11.85	94.19
6.76	11.88	94.44	9.50	11.87	94.38	13.69	11.86	94.24
6.78	11.88	94.45	9.73	11.87	94.36	14.25	11.85	94.14
6.78	11.89	94.47	9.74	11.87	94.37	15.48	11.84	94.11
6.79	11.89	94.51	9.78	11.88	94.39	15.69	11.85	94.17
6.80	11.88	94.44	9.78	11.88	94.40	15.73	11.84	94.14
6.80	11.89	94.48	9.78	11.88	94.39	15.77	11.85	94.20
6.80	11.88	94.43	9.78	11.88	94.39	15.77	11.84	94.12
6.80	11.88	94.43	9.78	11.87	94.35	15.78	11.84	94.11
6.80	11.88	94.38	9.79	11.87	94.36	15.78	11.84	94.13
6.81	11.89	94.48	9.79	11.88	94.39	15.78	11.85	94.21
6.81	11.88	94.45	9.79	11.87	94.38	15.78	11.85	94.18
6.81	11.89	94.47	9.79	11.87	94.38	15.78	11.85	94.19
6.81	11.88	94.43	9.79	11.88	94.42	15.78	11.84	94.14
6.81	11.88	94.44	9.80	11.87	94.37	15.78	11.84	94.13
6.81	11.88	94.42	9.80	11.88	94.40	15.78	11.84	94.13
6.82	11.88	94.44	9.80	11.88	94.43	15.79	11.84	94.12
6.84	11.89	94.46	9.80	11.87	94.35	16.40	11.82	93.99
6.85	11.89	94.50	10.14	11.87	94.35	17.63	11.83	94.01
6.85	11.88	94.46	10.34	11.87	94.38	17.64	11.80	93.79
6.85	11.89	94.48	10.81	11.86	94.29	17.65	11.83	94.03
6.86	11.89	94.47	11.70	11.86	94.29	17.65	11.83	94.04
6.86	11.88	94.44	11.72	11.86	94.29	17.65	11.83	94.04
6.86	11.88	94.40	11.72	11.86	94.29	17.65	11.82	93.94
7.77	11.89	94.48	11.72	11.87	94.36	17.65	11.83	94.05

Table A3-1.3. Under-Ice Data for Dissolved Oxygen in Roberts Bay, Doris North Project, March-May 2011

WT4 - 23-Apr-11			WT4 - 23-Apr-11			WT4 - 23-Apr-11		
Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)		(mg/L)	(% Saturation)		(mg/L)	(% Saturation)
17.65	11.83	94.02	24.58	11.70	93.00	34.50	10.13	82.95
17.65	11.83	94.01	24.58	11.70	93.04	34.50	10.16	83.17
17.66	11.83	94.01	24.59	11.73	93.27	34.61	10.09	82.69
17.67	11.82	93.93	24.59	11.68	92.90	35.19	10.09	82.66
17.67	11.82	93.95	24.59	11.79	93.79	35.33	10.08	82.63
17.67	11.82	93.95	24.59	11.79	93.75	36.05	10.08	82.58
17.67	11.82	93.96	24.59	11.77	93.60	36.66	10.07	82.49
17.69	11.81	93.85	24.59	11.77	93.65	37.17	10.06	82.40
17.69	11.82	94.00	24.59	11.79	93.79	38.03	10.05	82.36
17.69	11.81	93.85	24.60	11.76	93.53	39.15	10.04	82.21
17.69	11.78	93.66	25.72	11.58	92.02	39.30	10.02	82.10
17.69	11.82	93.92	27.22	11.53	91.65	39.33	10.03	82.19
17.69	11.81	93.89	28.31	11.47	91.19	39.34	10.04	82.23
17.70	11.81	93.87	29.26	10.67	84.95	39.35	10.04	82.23
18.51	11.78	93.69	29.40	11.44	90.91	39.35	10.04	82.24
19.41	11.82	94.08	29.40	11.44	90.93	39.35	10.04	82.26
19.51	11.82	94.05	29.40	11.37	90.38	39.35	10.04	82.24
19.61	11.80	93.93	29.40	11.42	90.78	39.35	10.02	82.15
19.61	11.80	93.91	29.49	10.85	86.29	39.35	10.04	82.27
19.61	11.79	93.89	29.51	11.27	89.60	39.36	10.05	82.28
19.61	11.78	93.82	29.51	11.22	89.22	39.36	10.04	82.25
19.61	11.79	93.89	29.52	10.91	86.72	39.36	10.04	82.24
19.61	11.79	93.88	29.52	11.24	89.35	39.36	10.05	82.25
19.61	11.79	93.88	29.52	11.18	88.86	39.36	10.03	82.17
19.61	11.80	93.95	29.52	10.93	86.93	39.36	10.04	82.26
19.61	11.79	93.88	29.52	10.98	87.30	39.36	10.03	82.18
19.61	11.79	93.86	29.53	11.28	89.68	39.36	10.04	82.24
19.61	11.79	93.90	29.53	11.33	90.10	39.36	10.03	82.21
19.62	11.80	93.94	29.53	11.04	87.76	39.36	10.02	82.15
19.62	11.80	93.96	29.53	11.36	90.28	39.37	10.03	82.16
19.62	11.79	93.89	29.54	11.04	87.78	40.73	10.01	81.99
19.62	11.79	93.90	29.54	11.15	88.69	41.86	9.99	81.82
19.64	11.79	93.82	29.54	11.11	88.31	42.83	9.97	81.70
20.09	11.84	94.12	29.55	11.06	87.93	44.25	9.93	81.36
21.14	11.81	93.86	29.55	11.14	88.58	44.27	9.97	81.65
22.29	11.80	93.77	30.29	10.48	83.65	44.27	9.90	81.15
23.43	11.78	93.67	31.56	10.26	82.50	44.30	9.97	81.65
24.51	11.79	93.77	32.78	10.09	82.14	44.30	9.95	81.51
24.51	11.79	93.76	33.91	10.16	83.19	44.30	9.94	81.50
24.51	11.78	93.65	34.48	10.10	82.75	44.30	9.97	81.64
24.54	11.62	92.38	34.48	10.16	83.13	44.30	9.96	81.57
24.57	11.65	92.57	34.48	10.14	83.05	44.30	9.96	81.58
24.57	11.68	92.81	34.48	10.13	82.98	44.31	9.95	81.52
24.57	11.73	93.26	34.48	10.16	83.13	44.31	9.92	81.32
24.57	11.75	93.46	34.49	10.14	83.05	44.61	9.88	81.04
24.57	11.76	93.55	34.49	10.15	83.07	45.31	9.88	81.05
24.57	11.68	92.83	34.49	10.16	83.16	46.13	9.87	81.03
24.58	11.75	93.49	34.49	10.16	83.16	46.87	9.88	81.07
24.58	11.71	93.15	34.49	10.12	82.91	47.94	9.87	81.02
24.58	11.74	93.40	34.49	10.15	83.10	48.05	9.87	80.98
24.58	11.76	93.56	34.49	10.16	83.17	48.97	9.88	80.99
24.58	11.73	93.33	34.49	10.15	83.09	49.25	9.88	81.05
24.58	11.69	92.91	34.49	10.16	83.15	49.27	9.87	81.00
24.58	11.72	93.20	34.49	10.15	83.10	49.27	9.88	81.08
24.58	11.74	93.33	34.49	10.13	82.99	49.27	9.87	81.02
24.58	11.77	93.59	34.49	10.11	82.83	49.27	9.87	80.98
24.58	11.73	93.27	34.49	10.12	82.90	49.27	9.87	81.04
24.58	11.76	93.55	34.50	10.12	82.93	49.28	9.88	81.03
24.58	11.72	93.21	34.50	10.13	82.96	49.28	9.87	81.00
24.58	11.75	93.48	34.50	10.14	82.99	49.28	9.87	80.95

Table A3-1.3. Under-Ice Data for Dissolved Oxygen in Roberts Bay, Doris North Project, March-May 2011

WT4 - 23-Apr-11			WT6 - 23-Apr-11			WT6 - 23-Apr-11		
Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)		(mg/L)	(% Saturation)		(mg/L)	(% Saturation)
49.28	9.86	80.85	2.88	11.90	94.51	5.81	11.88	94.37
49.28	9.87	80.93	2.88	11.89	94.49	5.82	11.88	94.38
49.28	9.87	80.92	2.88	11.90	94.54	5.84	11.88	94.40
49.28	9.87	80.95	2.88	11.89	94.47	6.73	11.88	94.34
49.28	9.86	80.91	2.88	11.90	94.50	6.77	11.88	94.35
49.28	9.87	80.93	2.88	11.89	94.48	6.78	11.88	94.35
49.28	9.87	80.97	2.89	11.89	94.48	6.78	11.88	94.38
49.28	9.87	80.90	3.29	11.88	94.35	6.79	11.88	94.40
49.28	9.87	80.97	3.77	11.88	94.41	6.79	11.88	94.40
49.28	9.87	80.88	3.86	11.88	94.39	6.81	11.88	94.42
49.28	9.87	80.94	3.86	11.89	94.45	6.87	11.88	94.40
49.28	9.87	80.96	3.92	11.89	94.44	6.87	11.88	94.37
49.28	9.86	80.90	3.93	11.89	94.44	6.88	11.88	94.40
49.28	9.87	80.93	3.93	11.89	94.44	6.89	11.89	94.46
49.29	9.86	80.88	3.93	11.90	94.50	6.89	11.88	94.40
49.29	9.89	81.17	3.93	11.89	94.43	6.89	11.87	94.33
49.29	9.87	80.92	3.93	11.88	94.41	6.90	11.88	94.39
49.29	9.87	80.95	3.93	11.89	94.42	7.06	11.88	94.39
49.29	9.87	80.97	3.93	11.89	94.42	7.59	11.88	94.40
49.46	9.90	81.21	3.94	11.88	94.41	7.78	11.88	94.39
49.88	9.91	81.31	3.94	11.89	94.44	7.79	11.88	94.41
50.12	9.92	81.39	3.95	11.89	94.48	7.79	11.88	94.37
			3.96	11.89	94.47	7.80	11.88	94.35
			3.96	11.89	94.44	7.80	11.88	94.36
			3.97	11.89	94.43	7.81	11.88	94.37
			4.01	11.88	94.38	7.81	11.88	94.40
			4.73	11.88	94.36	7.81	11.88	94.35
			4.76	11.87	94.33	7.81	11.88	94.40
			4.77	11.88	94.36	7.81	11.88	94.41
			4.77	11.89	94.47	8.65	11.87	94.32
			4.78	11.89	94.44	8.67	11.88	94.37
			4.78	11.88	94.36	8.68	11.88	94.36
			4.79	11.89	94.43	8.68	11.88	94.36
			4.79	11.89	94.43	8.68	11.88	94.41
			4.79	11.88	94.35	8.68	11.87	94.29
			4.79	11.88	94.38	8.68	11.88	94.40
			4.79	11.89	94.43	8.68	11.87	94.34
			4.79	11.88	94.40	8.68	11.87	94.33
			4.80	11.89	94.44	8.68	11.88	94.41
			4.80	11.88	94.41	8.68	11.87	94.32
			4.80	11.89	94.42	8.69	11.88	94.36
			4.81	11.89	94.42	8.69	11.87	94.34
			5.34	11.88	94.36	8.69	11.88	94.41
			5.74	11.88	94.40	8.69	11.88	94.38
			5.75	11.88	94.39	8.69	11.88	94.39
			5.75	11.88	94.40	8.69	11.88	94.37
			5.75	11.88	94.38	8.69	11.88	94.36
			5.76	11.89	94.42	8.69	11.88	94.36
			5.76	11.88	94.39	9.10	11.87	94.28
			5.76	11.88	94.39	9.64	11.87	94.31
			5.76	11.88	94.38	9.66	11.88	94.36
			5.76	11.88	94.39	9.66	11.88	94.35
			5.76	11.89	94.46	9.67	11.87	94.30
			5.77	11.89	94.43	9.67	11.87	94.30
			5.77	11.88	94.42	9.68	11.87	94.35
			5.78	11.88	94.39	9.69	11.87	94.30
			5.78	11.88	94.40	9.69	11.87	94.34
			5.78	11.87	94.34	9.70	11.87	94.31
			5.78	11.88	94.41	9.70	11.87	94.28
			5.79	11.88	94.40	9.70	11.87	94.33

WT6 - 23-Apr-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
1.56	11.90	94.50
1.82	11.90	94.53
1.82	11.90	94.55
1.83	11.89	94.49
1.83	11.90	94.51
1.83	11.90	94.53
1.83	11.90	94.49
1.83	11.89	94.48
1.83	11.90	94.49
1.84	11.90	94.51
1.84	11.90	94.51
1.84	11.90	94.53
1.84	11.90	94.51
1.84	11.90	94.56
1.84	11.89	94.45
1.84	11.90	94.55
1.85	11.90	94.51
1.86	11.89	94.49
2.03	11.89	94.44
2.81	11.89	94.42
2.85	11.89	94.48
2.86	11.89	94.46
2.86	11.89	94.48
2.86	11.89	94.48
2.86	11.89	94.45
2.86	11.89	94.49
2.87	11.89	94.45
2.87	11.89	94.48
2.87	11.89	94.43
2.87	11.89	94.46
2.87	11.90	94.50
2.87	11.89	94.46
2.88	11.89	94.47

Table A3-1.3. Under-Ice Data for Dissolved Oxygen in Roberts Bay, Doris North Project, March-May 2011

WT6 - 23-Apr-11			WT6 - 23-Apr-11			WT6 - 23-Apr-11		
Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)		(mg/L)	(% Saturation)		(mg/L)	(% Saturation)
9.70	11.87	94.35	16.59	11.84	94.12	24.44	11.69	93.01
9.70	11.88	94.41	17.48	11.84	94.10	24.44	11.64	92.54
9.71	11.87	94.32	17.50	11.82	93.97	24.46	11.65	92.63
9.71	11.87	94.31	17.54	11.85	94.14	24.48	11.68	92.87
9.71	11.87	94.32	17.54	11.85	94.16	24.49	11.69	92.95
9.71	11.87	94.30	17.54	11.84	94.08	24.50	11.50	91.44
9.72	11.86	94.27	17.55	11.85	94.19	24.50	11.68	92.90
9.74	11.87	94.29	17.55	11.85	94.20	24.50	11.70	93.08
10.98	11.86	94.22	17.55	11.84	94.13	24.50	11.66	92.75
11.70	11.87	94.30	17.55	11.86	94.25	24.50	11.70	93.02
11.70	11.87	94.31	17.55	11.85	94.17	24.51	11.70	93.05
11.71	11.87	94.35	17.55	11.85	94.22	24.53	11.65	92.65
11.71	11.87	94.30	17.56	11.85	94.17	25.53	11.45	91.01
11.71	11.87	94.28	17.56	11.84	94.13	26.61	11.38	90.54
11.71	11.88	94.36	17.56	11.85	94.21	27.96	11.29	89.88
11.71	11.86	94.26	17.56	11.85	94.13	29.24	11.21	89.38
11.71	11.87	94.31	17.56	11.85	94.16	29.26	11.28	89.85
11.72	11.87	94.30	17.56	11.84	94.10	29.31	10.74	85.91
11.72	11.87	94.33	17.56	11.85	94.15	29.33	11.13	88.82
11.72	11.87	94.33	17.57	11.85	94.17	29.33	10.41	83.69
11.72	11.87	94.33	18.06	11.82	93.97	29.34	10.86	86.96
11.72	11.86	94.25	19.22	11.76	93.44	29.36	10.92	87.32
11.74	11.87	94.34	19.46	11.83	94.04	29.36	11.17	89.09
11.74	11.86	94.24	19.47	11.78	93.63	29.36	11.07	88.41
11.80	11.87	94.30	19.48	11.77	93.55	29.37	10.99	87.78
13.26	11.86	94.25	19.48	11.83	94.07	29.37	10.96	87.59
13.45	11.86	94.21	19.49	11.83	93.99	29.37	11.04	88.20
13.53	11.86	94.23	19.49	11.82	93.97	29.37	10.96	87.55
13.55	11.87	94.29	19.49	11.83	94.01	29.37	11.02	87.99
13.56	11.86	94.24	19.49	11.82	93.97	29.37	11.11	88.73
13.58	11.87	94.27	19.49	11.83	94.04	29.38	10.58	85.04
13.58	11.87	94.28	19.50	11.81	93.90	29.38	10.67	85.70
13.59	11.87	94.30	19.53	11.80	93.80	29.38	11.09	88.53
13.59	11.86	94.24	19.53	11.78	93.65	29.38	10.71	85.84
13.59	11.87	94.29	19.56	11.80	93.77	29.39	10.70	85.81
13.59	11.86	94.27	19.56	11.80	93.79	29.43	10.76	86.06
13.59	11.87	94.30	19.56	11.81	93.89	29.86	10.42	84.57
13.60	11.87	94.32	19.56	11.81	93.88	31.51	10.37	84.24
13.60	11.88	94.37	19.56	11.81	93.87	32.97	10.32	84.10
13.60	11.87	94.30	19.57	11.80	93.82	34.15	10.33	84.19
13.60	11.87	94.29	19.57	11.80	93.82	34.15	10.34	84.34
13.60	11.87	94.30	19.57	11.82	93.94	34.15	10.34	84.28
13.60	11.87	94.31	19.57	11.80	93.79	34.16	10.30	83.99
13.60	11.87	94.30	19.58	11.81	93.89	34.16	10.32	84.16
14.23	11.86	94.23	19.58	11.82	93.96	34.17	10.33	84.21
15.48	11.85	94.18	19.58	11.81	93.88	34.17	10.33	84.19
15.58	11.85	94.20	19.59	11.82	93.95	34.17	10.31	84.06
15.61	11.85	94.17	20.25	11.74	93.32	34.18	10.33	84.26
15.61	11.86	94.22	21.72	11.72	93.17	34.18	10.30	83.99
15.61	11.85	94.19	23.06	11.70	93.01	34.18	10.32	84.12
15.61	11.85	94.22	24.40	11.56	91.90	34.18	10.32	84.12
15.62	11.86	94.26	24.41	11.57	91.95	34.19	10.31	84.07
15.62	11.86	94.26	24.42	11.54	91.73	34.22	10.26	83.67
15.62	11.86	94.23	24.42	11.58	92.03	34.23	10.29	83.84
15.62	11.86	94.26	24.42	11.63	92.50	34.23	10.28	83.77
15.62	11.86	94.24	24.42	11.60	92.21	34.23	10.29	83.89
15.62	11.86	94.29	24.42	11.60	92.22	34.23	10.30	83.95
15.62	11.86	94.27	24.43	11.60	92.28	34.23	10.30	83.93
15.63	11.86	94.26	24.43	11.62	92.46	34.23	10.27	83.75
15.63	11.85	94.20	24.43	11.62	92.40	34.23	10.26	83.61

Table A3-1.3. Under-Ice Data for Dissolved Oxygen in Roberts Bay, Doris North Project, March-May 2011

WT6 - 23-Apr-11			WT6 - 23-Apr-11			WT6 - 23-Apr-11																																																																										
Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen																																																																									
	(mg/L)	(% Saturation)		(mg/L)	(% Saturation)		(mg/L)	(% Saturation)																																																																								
34.23	10.28	83.80	47.78	9.91		59.30	9.34																																																																									
34.23	10.25	83.58	48.98	9.87		60.01	9.29																																																																									
34.24	10.24	83.45	49.10	9.87		60.80	9.25																																																																									
34.25	10.13	82.65	49.11	9.91		61.52	9.21																																																																									
34.26	10.23	83.40	49.11	9.89		62.70	9.21																																																																									
34.26	10.24	83.50	49.11	9.90		62.84	9.36																																																																									
34.27	10.23	83.38	49.11	9.89		62.91	9.23																																																																									
34.27	10.20	83.18	49.11	9.88		62.91	9.23																																																																									
34.34	10.20	83.19	49.11	9.89		62.91	9.22																																																																									
34.36	10.18	83.01	49.11	9.89		62.98	9.25																																																																									
35.12	10.10	82.68	49.11	9.90		62.98	9.37																																																																									
36.59	10.09	82.77	49.11	9.89		62.98	9.23																																																																									
37.95	10.08	82.70	49.12	9.88		62.98	9.24																																																																									
39.16	10.06	82.49	49.12	9.90		63.01	9.23																																																																									
39.17	10.08	82.69	49.12	9.91		63.01	9.32																																																																									
39.17	10.07	82.61	49.12	9.91		63.03	9.33																																																																									
39.17	10.07	82.64	49.12	9.91		63.04	9.26																																																																									
39.17	10.08	82.73	49.12	9.89		63.12	9.30																																																																									
39.17	10.07	82.62	49.12	9.89		63.12	9.31																																																																									
39.18	10.09	82.76	49.12	9.90		63.12	9.24																																																																									
39.18	10.06	82.48	49.12	9.89		63.15	9.30																																																																									
39.18	10.07	82.57	49.13	9.90		63.24	9.26																																																																									
39.19	10.07	82.65	49.38	9.87		63.25	9.28																																																																									
39.19	10.06	82.48	50.26	9.87		63.25	9.27																																																																									
39.20	10.04	82.36	51.53	9.84		63.25	9.28																																																																									
39.21	10.05	82.43	52.91	9.83		63.25	9.29																																																																									
39.22	10.03		53.02	9.79		63.25	9.27																																																																									
39.22	10.03		53.05	9.81		64.61	9.36																																																																									
39.22	10.05	82.40	53.06	9.82		65.83	9.36																																																																									
39.42	10.01		53.06	9.82		65.92	9.37																																																																									
40.81	10.01		53.06	9.82		65.99	9.37																																																																									
42.31	10.00		53.07	9.75		66.00	9.37																																																																									
43.81	9.99		53.08	9.79		Note: at the bottom of this site there is no temperature/salinity data so saturations cannot be calculated.																																																																										
44.07	9.94		53.09	9.77																																																																												
44.11	9.95		53.09	9.78		<table><tr><th colspan="3">WT8 - 21-Apr-11</th></tr><tr><th>Depth</th><th colspan="2">Dissolved Oxygen</th></tr><tr><th>(m)</th><th>(mg/L)</th><th>(% Saturation)</th></tr><tr><td>1.21</td><td>11.52</td><td>125.18</td></tr><tr><td>1.67</td><td>11.52</td><td>125.31</td></tr><tr><td>1.69</td><td>11.52</td><td>125.24</td></tr><tr><td>1.71</td><td>11.52</td><td>125.22</td></tr><tr><td>1.89</td><td>11.51</td><td>125.08</td></tr><tr><td>2.29</td><td>11.51</td><td>125.12</td></tr><tr><td>2.30</td><td>11.52</td><td>125.23</td></tr><tr><td>2.30</td><td>11.52</td><td>125.23</td></tr><tr><td>2.31</td><td>11.52</td><td>125.22</td></tr><tr><td>2.38</td><td>11.50</td><td>125.05</td></tr><tr><td>2.41</td><td>11.50</td><td>125.06</td></tr><tr><td>3.30</td><td>11.50</td><td>125.02</td></tr><tr><td>3.35</td><td>11.50</td><td>124.96</td></tr><tr><td>3.36</td><td>11.51</td><td>125.11</td></tr><tr><td>4.37</td><td>11.49</td><td>124.89</td></tr><tr><td>5.87</td><td>11.50</td><td>124.93</td></tr><tr><td>5.87</td><td>11.49</td><td>124.86</td></tr><tr><td>6.52</td><td>11.48</td><td>124.67</td></tr><tr><td>8.46</td><td>11.48</td><td>124.75</td></tr><tr><td>8.51</td><td>11.49</td><td>124.81</td></tr><tr><td>9.47</td><td>11.46</td><td>124.45</td></tr></table>			WT8 - 21-Apr-11			Depth	Dissolved Oxygen		(m)	(mg/L)	(% Saturation)	1.21	11.52	125.18	1.67	11.52	125.31	1.69	11.52	125.24	1.71	11.52	125.22	1.89	11.51	125.08	2.29	11.51	125.12	2.30	11.52	125.23	2.30	11.52	125.23	2.31	11.52	125.22	2.38	11.50	125.05	2.41	11.50	125.06	3.30	11.50	125.02	3.35	11.50	124.96	3.36	11.51	125.11	4.37	11.49	124.89	5.87	11.50	124.93	5.87	11.49	124.86	6.52	11.48	124.67	8.46	11.48	124.75	8.51	11.49	124.81	9.47	11.46	124.45
WT8 - 21-Apr-11																																																																																
Depth	Dissolved Oxygen																																																																															
(m)	(mg/L)	(% Saturation)																																																																														
1.21	11.52	125.18																																																																														
1.67	11.52	125.31																																																																														
1.69	11.52	125.24																																																																														
1.71	11.52	125.22																																																																														
1.89	11.51	125.08																																																																														
2.29	11.51	125.12																																																																														
2.30	11.52	125.23																																																																														
2.30	11.52	125.23																																																																														
2.31	11.52	125.22																																																																														
2.38	11.50	125.05																																																																														
2.41	11.50	125.06																																																																														
3.30	11.50	125.02																																																																														
3.35	11.50	124.96																																																																														
3.36	11.51	125.11																																																																														
4.37	11.49	124.89																																																																														
5.87	11.50	124.93																																																																														
5.87	11.49	124.86																																																																														
6.52	11.48	124.67																																																																														
8.46	11.48	124.75																																																																														
8.51	11.49	124.81																																																																														
9.47	11.46	124.45																																																																														
44.11	9.95		53.09	9.73																																																																												
44.12	9.97		53.09	9.79																																																																												
44.12	9.98		53.10	9.75																																																																												
44.12	9.99		53.10	9.77																																																																												
44.12	9.99		53.46	9.71																																																																												
44.12	9.97		54.17	9.69																																																																												
44.12	9.97		54.29	9.67																																																																												
44.13	9.98		55.03	9.66																																																																												
44.13	9.96		56.46	9.63																																																																												
44.13	9.97		57.41	9.41																																																																												
44.13	9.97		57.51	9.44																																																																												
44.13	9.98		57.84	9.61																																																																												
44.13	9.99		57.85	9.57																																																																												
44.13	9.98		57.86	9.60																																																																												
44.13	9.99		57.86	9.62																																																																												
44.13	9.95		57.86	9.58																																																																												
44.13	9.97		57.86	9.62																																																																												
44.13	9.96		57.87	9.62																																																																												
44.13	9.96		58.04	9.56																																																																												
44.13	10.00		58.06	9.48																																																																												
44.13	9.98		58.07	9.55																																																																												
44.14	9.99		58.08	9.51																																																																												
44.14	10.00		58.08	9.54																																																																												
44.15	10.00		58.08	9.52																																																																												
45.21	9.93		58.08	9.54																																																																												
46.45	9.92		58.40	9.39																																																																												

Table A3-1.3. Under-Ice Data for Dissolved Oxygen in Roberts Bay, Doris North Project, March-May 2011

WT8 - 21-Apr-11			WT8 - 21-Apr-11			WT3 - 20-May-11		
Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)		(mg/L)	(% Saturation)		(mg/L)	(% Saturation)
10.78	11.47	124.66	34.04	10.31	109.27	1.79	13.66	109.89
10.80	11.47	124.57	34.56	10.28	108.90	1.80	13.59	108.69
10.83	11.45	124.30	35.22	10.26	108.61	1.79	13.53	107.93
12.25	11.41	123.80	35.83	10.20	107.92	1.84	13.44	107.19
13.01	11.43	124.07	36.98	10.23	108.16	1.94	13.34	106.35
13.02	11.44	124.21	37.33	10.24		2.03	13.25	105.54
13.04	11.40	123.69	37.36	10.24		2.03	13.15	104.74
14.15	11.35	123.01	37.56	10.25		2.18	13.11	104.42
14.88	11.35	123.03	37.67	10.25		2.18	13.02	103.70
14.89	11.34	122.78	37.76	10.29		2.20	13.00	103.58
14.89	11.37	123.28	37.80	10.27		2.18	12.97	103.34
14.99	11.27	121.89	37.81	10.27		2.16	12.91	102.91
16.98	11.14	120.15	37.82	10.26		2.16	12.88	102.71
17.00	11.08	119.38	37.83	10.25		2.16	12.85	102.51
17.02	11.18	120.76	37.84	10.27		2.17	12.85	102.54
17.06	11.02	118.49	37.87	10.25		2.17	12.82	102.35
17.06	11.22	121.20	37.87	10.26		2.17	12.80	102.23
17.07	11.24	121.47	38.39	10.31		2.17	12.79	102.13
17.79	10.92	117.14	38.72	10.33		2.17	12.77	102.00
19.21	10.71	114.44	39.37	10.36		2.18	12.69	101.25
21.52	10.65	113.54	40.75	10.39		2.18	12.70	101.31
22.71	10.64	113.51	40.79	10.41		2.18	12.68	101.19
22.72	10.66	113.80	41.20	10.44		2.17	12.66	101.09
22.73	10.66	113.87	42.27	10.49		2.17	12.66	101.13
22.73	10.66	113.75	43.45	10.56		2.18	12.66	101.12
22.75	10.62	113.31	43.87	10.55		2.17	12.54	99.94
22.95	10.61	113.12	43.87	10.56		2.17	12.52	99.73
23.84	10.63	113.44	Note: at the bottom of this site there is no salinity data so saturations cannot be calculated			2.16	12.51	99.64
25.93	10.62	113.32				2.18	12.49	99.43
27.95	10.60	113.03	WT2 - 20-May-11			2.18	12.46	99.20
28.12	10.59	112.94				2.18	12.44	99.05
28.39	10.54	112.32	Depth (m)	Dissolved Oxygen		2.19	12.42	98.90
28.41	10.57	112.68		(mg/L)	(% Saturation)	2.19	12.40	98.73
28.41	10.56	112.55	1.46	12.63	100.21	2.12	12.35	98.33
28.42	10.58	112.82	1.66	12.66	100.41	2.42	12.33	98.15
28.42	10.57	112.65	1.90	12.65	100.36	2.51	12.32	98.02
28.42	10.57	112.71	1.96	12.63	100.24	2.91	12.27	97.69
28.43	10.59	112.89	1.97	12.61	100.14	3.34	12.26	97.56
28.44	10.59	112.94	1.97	12.60	100.03	3.78	12.24	97.40
28.67	10.53	112.08	1.97	12.57	99.85	4.12	12.21	97.17
28.69	10.48	111.52	1.98	12.56	99.77	4.44	12.19	97.01
29.70	10.47	111.28	1.97	12.55	99.70	4.82	12.17	96.88
29.82	10.42	110.73	1.97	12.54	99.61	5.13	12.16	96.81
31.24	10.43	110.87	1.97	12.52	99.40	5.41	12.15	96.75
32.59	10.43	110.78	1.97	12.52	99.40	5.68	12.14	96.65
32.59	10.43	110.85	1.97	12.50	99.31	6.11	12.13	96.57
32.60	10.42	110.67	1.98	12.49	99.19	6.57	12.12	96.51
32.76	10.39	110.32	1.97	12.48	99.10	7.04	12.11	96.43
32.80	10.37	110.10	1.97	12.47	99.04	7.33	12.09	96.34
32.87	10.41	110.58	1.98	12.46	98.93	7.65	12.10	96.39
32.96	10.40	110.41	2.09	12.44	98.83	7.98	12.09	96.30
33.63	10.33	109.50	2.17	12.43	98.76	8.31	12.08	96.22
33.64	10.31	109.29	2.25	12.41	98.59	8.59	12.08	96.26
33.64	10.34	109.60	2.26	12.39	98.45	8.93	12.07	96.23
33.70	10.34	109.65	2.39	12.38	98.34	9.28	12.07	96.19
33.82	10.36	109.90	2.45	12.36	98.15	9.56	12.07	96.16
33.98	10.30	109.18				9.92	12.06	96.15
33.99	10.29	109.06				10.25	12.06	96.12
33.99	10.30	109.12				10.67	12.05	96.09
34.00	10.31	109.23						

Table A3-1.3. Under-Ice Data for Dissolved Oxygen in Roberts Bay, Doris North Project, March-May 2011

WT3 - 20-May-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
11.11	12.04	96.03
11.52	12.03	95.96

WT4 - 20-May-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
1.73	13.34	106.93
1.92	13.33	106.52
1.98	13.23	105.55
1.93	13.29	106.01
1.93	13.14	104.82
1.93	13.13	104.70
1.92	13.05	104.12
1.97	12.96	103.33
1.99	12.94	103.17
2.12	12.87	102.59
2.13	12.67	100.99
2.13	12.58	100.22
2.32	12.54	99.88
2.44	12.48	99.32
2.50	12.42	98.89
2.61	12.39	98.62
2.72	12.33	98.13
2.86	12.30	97.91
2.98	12.28	97.71
3.07	12.22	97.26
3.20	12.20	97.09
3.34	12.17	96.81
3.48	12.17	96.86
3.56	12.17	96.86
3.61	12.18	96.98
3.55	12.13	96.52
3.56	12.15	96.76
3.57	12.17	96.93
3.07	12.01	95.62
2.43	12.03	95.71
2.35	12.07	96.07
2.35	12.07	96.03
2.36	12.08	96.19
2.36	12.08	96.20
2.35	12.07	96.14
2.36	12.07	96.11
2.35	12.06	96.08
2.35	12.06	96.06
2.36	12.06	96.09
2.35	12.06	96.09
2.35	12.06	96.14
2.36	12.05	96.07
2.36	12.06	96.14
2.36	12.06	96.14
2.24	11.96	95.29
2.31	11.97	95.34
2.57	11.97	95.30
2.81	11.99	95.41
2.99	11.99	95.37
3.12	11.99	95.44
3.40	11.97	95.20
3.62	11.97	95.25

WT4 - 20-May-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
3.91	11.97	95.19
4.21	11.97	95.22
4.62	11.95	95.08
4.82	11.95	95.01
4.95	11.94	94.99
5.11	11.93	94.88
5.38	11.91	94.73
5.79	11.90	94.64
6.07	11.88	94.50
6.42	11.89	94.50
6.53	11.88	94.48
6.75	11.87	94.40
7.13	11.85	94.23
7.50	11.84	94.10
7.69	11.83	94.06
8.15	11.82	94.01
8.62	11.81	93.90
9.07	11.82	93.94
9.46	11.81	93.86
9.73	11.81	93.89
10.06	11.80	93.79
10.42	11.80	93.78
10.68	11.80	93.78
11.05	11.79	93.71
11.41	11.79	93.72
11.83	11.78	93.68
12.19	11.80	93.79
12.62	11.78	93.68
13.03	11.79	93.71
13.47	11.78	93.69
13.91	11.79	93.69
14.34	11.78	93.62
14.76	11.78	93.63
15.24	11.76	93.53
15.69	11.77	93.66
16.14	11.79	93.99
16.45	11.79	94.16
16.47	11.78	94.16
16.46	11.78	94.14
16.47	11.77	94.03
16.34	11.76	93.92
16.51	11.74	93.79
16.80	11.73	93.77
17.30	11.73	93.88
17.78	11.73	94.07
18.33	11.71	94.00
18.85	11.69	94.06
19.23	11.66	93.96
19.58	11.63	93.92
20.12	11.60	93.83
20.48	11.55	93.48
20.75	11.49	93.05
21.09	11.44	92.65
21.79	11.35	91.64
22.37	11.29	90.89
22.93	11.26	90.65
23.66	11.26	90.62
24.18	11.24	90.45
24.69	11.23	90.45

WT4 - 20-May-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
25.23	11.22	90.42
25.69	11.23	90.62
26.12	11.23	90.97
26.66	11.21	91.12
27.25	11.21	91.41
27.60	11.13	90.82
28.08	11.06	90.31
28.50	11.00	89.85
28.92	10.94	89.40
29.19	10.89	88.93
29.68	10.83	88.46
30.04	10.79	88.08
30.08	10.75	87.76
30.21	10.72	87.57
30.78	10.70	87.37
31.12	10.66	87.04
31.67	10.62	86.70
32.18	10.57	86.31
32.86	10.55	86.15
33.35	10.53	86.04
33.67	10.48	85.63
33.92	10.46	85.46
34.48	10.43	85.28
34.95	10.41	85.17
34.96	10.39	85.04
35.52	10.38	84.94
35.93	10.36	84.70
36.35	10.34	84.49
36.74	10.32	84.29
37.32	10.30	84.05
37.85	10.29	84.03
38.13	10.29	83.97
38.85	10.28	83.97
39.41	10.28	84.00
39.76	10.25	83.84
40.23	10.24	83.74
40.62	10.23	83.67
40.60	10.22	83.59
41.29	10.21	83.56
41.63	10.19	83.41
42.14	10.17	83.24
42.44	10.15	83.13
42.66	10.14	83.05
43.28	10.13	82.92
43.76	10.11	82.75
44.36	10.10	82.67
45.08	10.08	82.48
45.76	10.06	82.36
46.40	10.05	82.29
46.92	10.04	82.21
47.39	10.02	82.06
48.06	10.01	82.01
48.65	10.00	81.90
49.13	9.99	81.80

Table A3-1.3. Under-Ice Data for Dissolved Oxygen in Roberts Bay, Doris North Project, March-May 2011

WT5 - 20-May-11			WT5 - 20-May-11			WT5 - 20-May-11		
Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)		(mg/L)	(% Saturation)		(mg/L)	(% Saturation)
1.64	13.24	105.33	11.97	11.86	94.63	50.97	10.03	82.28
1.97	13.08	104.08	12.78	11.83	94.28	51.33	10.02	82.17
2.34	13.01	103.54	13.60	11.78	93.68	51.73	10.01	82.10
2.32	12.92	102.85	14.34	11.75	93.39	52.12	9.99	81.89
2.30	12.86	102.32	15.29	11.74	93.37	52.58	9.99	81.84
2.55	12.74	101.38	16.04	11.72	93.17	53.06	9.98	81.74
2.58	12.69	100.95	17.10	11.72	93.42	53.44	9.97	81.70
2.62	12.66	100.74	17.85	11.71	93.33	54.00	9.97	81.69
2.63	12.61	100.38	18.53	11.70	93.20	54.47	9.95	81.58
2.64	12.58	100.14	19.31	11.70	93.17	54.84	9.94	81.48
2.65	12.56	99.96	20.38	11.70	93.17	55.18	9.93	81.41
2.65	12.53	99.77	21.02	11.70	93.21	55.69	9.92	81.30
2.67	12.46	99.15	21.99	11.70	93.17	56.09	9.91	81.19
2.68	12.34	98.22	22.75	11.70	93.32	56.60	9.89	81.10
2.68	12.30	97.87	23.31	11.70	93.37	57.12	9.88	81.04
2.61	12.21	97.14	23.88	11.68	93.21	57.63	9.86	80.90
2.70	12.15	96.65	24.41	11.68	93.21	58.11	9.85	80.74
3.06	12.09	96.15	25.05	11.68	93.29			
3.35	12.06	95.90	25.66	11.68	93.45			
3.54	12.03	95.68	25.94	11.67	93.51			
3.83	12.02	95.55	26.47	11.71	94.20			
4.10	12.00	95.41	27.04	11.69	94.48			
4.36	11.98	95.23	27.75	11.62	94.00			
4.64	11.96	95.08	28.33	11.53	93.43			
4.87	11.94	94.96	28.85	11.46	93.03			
4.87	11.92	94.80	29.66	11.38	92.65			
4.89	11.93	94.88	30.53	11.30	92.12			
4.89	11.93	94.90	31.24	11.17	91.21			
4.89	11.92	94.84	32.03	11.10	90.68			
5.13	11.88	94.47	32.83	11.02	90.14			
5.36	11.88	94.50	33.47	10.93	89.38			
5.64	11.87	94.40	34.29	10.87	88.84			
5.86	11.86	94.32	35.07	10.79	88.22			
5.97	11.86	94.31	36.04	10.74	87.81			
6.29	11.88	94.45	36.75	10.67	87.24			
6.53	11.87	94.40	37.61	10.62	86.87			
6.81	11.86	94.34	38.46	10.57	86.52			
7.11	11.87	94.41	39.26	10.51	86.02			
7.43	11.88	94.43	40.11	10.46	85.64			
7.72	11.86	94.34	41.05	10.41	85.24			
7.99	11.86	94.33	41.81	10.37	84.89			
8.30	11.87	94.39	42.34	10.34	84.64			
8.54	11.86	94.35	43.14	10.32	84.51			
8.76	11.87	94.41	43.98	10.29	84.32			
8.75	11.87	94.38	44.39	10.27	84.12			
8.79	11.86	94.35	44.96	10.24	83.88			
8.81	11.87	94.36	45.42	10.21	83.61			
8.87	11.87	94.36	45.93	10.20	83.53			
8.97	11.87	94.40	46.39	10.19	83.41			
9.03	11.87	94.38	46.66	10.17	83.29			
9.09	11.88	94.45	46.99	10.16	83.19			
9.17	11.88	94.48	47.35	10.15	83.10			
9.24	11.87	94.46	47.68	10.13	82.98			
9.34	11.87	94.46	48.16	10.13	82.93			
9.49	11.87	94.47	48.54	10.11	82.83			
9.76	11.86	94.43	48.87	10.10	82.75			
9.91	11.87	94.49	49.22	10.09	82.66			
10.15	11.87	94.54	49.61	10.08	82.57			
10.59	11.88	94.64	50.05	10.07	82.50			
11.26	11.88	94.71	50.37	10.06	82.49			
11.62	11.87	94.69	50.76	10.05	82.37			

WT6 - 20-May-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
1.57	12.39	99.44
1.86	12.41	99.61
2.13	12.36	99.20
2.29	12.33	98.91
2.31	12.36	99.19
2.35	12.33	98.97
2.01	12.18	97.73
2.08	12.20	97.84
2.05	12.27	98.39
2.07	12.31	98.80
2.07	12.25	98.45
2.08	12.25	98.47
2.09	12.26	98.62
2.09	12.29	98.98
2.10	12.29	99.06
2.09	12.28	99.01
2.10	12.22	98.54
2.10	12.20	98.51
2.10	12.18	98.40
2.11	12.17	98.42
1.99	11.99	96.43
2.08	12.04	96.52
2.08	12.10	96.95
2.14	12.08	96.78
2.49	12.06	96.59
2.79	12.02	96.22
3.05	12.05	96.41
3.14	12.05	96.42
3.11	12.02	96.27
3.26	12.01	96.14
3.24	11.98	95.90
3.32	11.99	95.92
3.66	11.98	95.83
3.93	11.95	95.54
4.12	11.95	95.54
4.19	11.97	95.69
4.22	11.98	95.79
4.43	11.93	95.39
4.66	11.92	95.26

Table A3-1.3. Under-Ice Data for Dissolved Oxygen in Roberts Bay, Doris North Project, March-May 2011

WT6 - 20-May-11			WT6 - 20-May-11			WT6 - 20-May-11		
Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)		(mg/L)	(% Saturation)		(mg/L)	(% Saturation)
4.97	11.90	95.11	19.47	11.60	92.61	37.32	10.22	83.48
5.22	11.89	94.97	19.80	11.60	92.58	37.61	10.22	83.42
5.50	11.90	95.14	20.10	11.61	92.69	37.96	10.21	83.36
5.61	11.89	95.07	20.28	11.60	92.60	38.35	10.22	83.44
5.71	11.91	95.15	20.63	11.58	92.38	38.89	10.22	83.56
5.72	11.92	95.34	20.84	11.59	92.51	39.23	10.21	83.48
5.82	11.88	94.99	21.21	11.62	93.00	39.60	10.19	83.25
6.08	11.90	95.06	21.42	11.62	93.19	39.97	10.19	83.19
6.10	11.91	95.17	21.65	11.61	93.24	40.46	10.19	83.14
6.26	11.87	94.88	21.96	11.57	93.06	40.90	10.17	82.96
6.27	11.91	95.13	22.38	11.51	92.55	41.17	10.18	82.90
6.28	11.92	95.28	22.65	11.49	92.42	41.61	10.18	82.85
6.29	11.89	95.07	22.91	11.48	92.34	41.78	10.20	82.96
6.30	11.90	95.22	23.22	11.46	92.22	42.26	10.21	82.98
6.42	11.85	94.73	23.47	11.44	92.13	42.83	10.21	83.06
6.99	11.87	94.77	23.75	11.42	92.03	43.32	10.24	83.38
7.16	11.89	94.95	24.03	11.41	92.09	43.66	10.25	83.56
7.34	11.88	94.92	24.35	11.38	91.96	44.20	10.25	83.66
7.49	11.88	94.95	24.68	11.36	91.89	44.61	10.24	83.61
7.76	11.86	94.76	24.96	11.30	91.59	45.08	10.22	83.37
8.07	11.88	94.83	25.32	11.26	91.34	45.53	10.20	83.14
8.28	11.87	94.80	25.64	11.19	90.87	45.92	10.22	83.31
8.50	11.87	94.76	25.97	11.14	90.53	46.42	10.22	83.40
8.67	11.87	94.75	26.18	11.09	90.09	46.79	10.20	83.29
8.86	11.87	94.76	26.49	11.06	89.95	47.39	10.19	83.27
9.08	11.88	94.81	26.77	11.01	89.53	47.98	10.18	83.27
9.15	11.89	94.96	27.08	10.95	88.86	48.41	10.15	83.11
9.40	11.87	94.76	27.36	10.93	88.82	48.84	10.12	82.89
9.70	11.87	94.72	27.41	10.90	88.64	49.40	10.10	82.73
9.74	11.88	94.78	27.80	10.86	88.26	49.87	10.08	82.57
9.97	11.86	94.64	28.14	10.83	88.00	50.41	10.06	82.40
10.25	11.85	94.55	28.60	10.82	87.98	50.88	10.04	82.24
10.55	11.87	94.66	28.85	10.78	87.80	51.24	10.03	82.15
10.82	11.86	94.60	29.25	10.77	87.86	51.77	10.02	82.03
11.09	11.86	94.62	29.60	10.72	87.53	52.16	10.00	81.89
11.47	11.87	94.62	30.05	10.67	87.26	52.57	9.99	81.76
11.88	11.87	94.65	30.38	10.62	86.83	52.87	9.98	81.72
12.19	11.87	94.62	30.74	10.58	86.57	53.21	9.98	81.68
12.44	11.87	94.62	31.01	10.54	86.15	53.63	9.97	81.68
12.85	11.86	94.57	31.25	10.51	85.89	53.95	9.97	81.66
13.19	11.88	94.72	31.54	10.48	85.73	54.37	9.95	81.55
13.51	11.86	94.56	31.84	10.46	85.54	54.71	9.93	81.39
13.72	11.88	94.72	32.15	10.44	85.40	55.12	9.90	81.11
13.98	11.88	94.70	32.49	10.41	85.16	55.46	9.88	80.92
14.16	11.88	94.72	32.66	10.39	84.97	55.95	9.86	80.70
14.52	11.88	94.73	32.85	10.37	84.83	56.22	9.87	80.74
14.86	11.88	94.73	33.25	10.35	84.67	56.64	9.88	80.85
15.17	11.88	94.77	33.55	10.33	84.52	57.18	9.87	80.86
15.56	11.86	94.64	33.92	10.32	84.38	57.51	9.86	80.79
16.00	11.85	94.61	34.27	10.30	84.19	57.93	9.84	80.64
16.25	11.84	94.51	34.59	10.28	84.03	58.20	9.83	80.52
16.69	11.82	94.45	34.99	10.28	83.97	58.47	9.83	80.49
17.01	11.79	94.34	35.30	10.27	83.90	58.76	9.83	80.45
17.35	11.74	94.03	35.61	10.25	83.76	59.23	9.83	80.41
17.62	11.69	93.54	35.99	10.24	83.66	59.60	9.84	80.50
18.02	11.65	93.12	36.11	10.25	83.71	59.96	9.84	80.57
18.27	11.64	92.98	36.28	10.24	83.66	60.35	9.84	80.63
18.60	11.63	92.92	36.56	10.24	83.68	60.72	9.83	80.59
18.97	11.61	92.79	36.74	10.23	83.66	61.17	9.81	80.45
19.03	11.61	92.73	36.82	10.23	83.62	61.58	9.77	80.17
19.25	11.59	92.58	37.13	10.22	83.54	61.93	9.76	80.00

Table A3-1.3. Under-Ice Data for Dissolved Oxygen in Roberts Bay, Doris North Project, March-May 2011

WT6 - 20-May-11			WT7 - 20-May-11			WT7 - 20-May-11		
Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)		(mg/L)	(% Saturation)		(mg/L)	(% Saturation)
62.15	9.74	79.83	4.19	12.25	97.50	18.92	12.03	95.80
62.44	9.73	79.72	4.49	12.27	97.67	19.11	12.03	95.79
62.74	9.71	79.56	4.73	12.27	97.69	19.41	12.04	95.97
63.13	9.70	79.52	4.99	12.29	97.79	19.65	12.02	95.91
63.52	9.70	79.57	5.27	12.28	97.74	19.94	12.00	95.74
63.91	9.68	79.39	5.54	12.30	97.90	20.19	11.99	95.69
64.22	9.67	79.31	5.94	12.28	97.75	20.46	11.96	95.41
64.42	9.67	79.31	6.27	12.28	97.74	20.66	11.95	95.32
64.51	9.67	79.31	6.57	12.30	97.92	20.92	11.92	95.16
64.81	9.66	79.22	6.97	12.28	97.73	21.26	11.93	95.35
			7.28	12.28	97.69	21.56	11.91	95.38
			7.51	12.28	97.69	21.85	11.91	95.51
			7.69	12.26	97.60	22.10	11.90	95.54
			7.96	12.28	97.70	22.38	11.87	95.60
			8.23	12.28	97.76	22.70	11.84	95.66
			8.53	12.27	97.66	23.02	11.77	95.27
			8.81	12.27	97.64	23.35	11.67	94.51
			9.13	12.29	97.76	23.58	11.58	93.74
			9.48	12.26	97.57	23.86	11.51	93.22
			9.73	12.26	97.53	24.16	11.44	92.68
			10.10	12.25	97.43	24.42	11.39	92.39
			10.30	12.25	97.45	24.73	11.34	92.01
			10.55	12.24	97.35	24.98	11.26	91.43
			10.87	12.23	97.31	25.32	11.21	91.08
			11.20	12.24	97.33	25.61	11.15	90.60
			11.38	12.23	97.27	26.00	11.09	90.09
			11.53	12.22	97.23	26.36	11.05	89.62
			11.71	12.22	97.18	26.59	11.03	89.48
			12.10	12.20	97.09	27.02	11.02	89.57
			12.39	12.19	96.95	27.34	10.97	89.31
			12.71	12.20	97.02	27.58	10.95	89.20
			13.02	12.18	96.87	27.85	10.92	89.02
			13.29	12.17	96.86	28.12	10.88	88.72
			13.53	12.17	96.84	28.43	10.84	88.42
			13.71	12.16	96.75	28.42	10.81	88.15
			14.06	12.16	96.75	28.77	10.77	87.87
			14.35	12.16	96.76	29.11	10.74	87.66
			14.51	12.17	96.89	29.42	10.72	87.47
			14.58	12.17	96.89	29.87	10.69	87.27
			14.56	12.16	96.87	30.29	10.65	86.96
			14.57	12.16	96.85	30.71	10.63	86.82
			14.58	12.16	96.85	31.07	10.61	86.69
			14.52	12.15	96.78	31.49	10.61	86.81
			14.66	12.14	96.68	31.93	10.58	86.63
			14.92	12.13	96.61	32.32	10.55	86.44
			15.21	12.12	96.53	32.77	10.53	86.39
			15.30	12.12	96.54	33.28	10.50	86.22
			15.55	12.10	96.42	33.82	10.47	86.00
			15.83	12.09	96.36	34.27	10.45	85.83
			16.05	12.09	96.35	34.76	10.43	85.63
			16.26	12.09	96.36	35.24	10.40	85.41
			16.52	12.07	96.19	35.73	10.37	85.19
			16.74	12.07	96.21	36.34	10.34	84.96
			17.01	12.07	96.15	36.64	10.31	84.70
			17.24	12.06	96.12	37.27	10.30	84.52
			17.42	12.05	96.03	37.93	10.26	84.15
			17.63	12.05	96.00	38.52	10.23	83.74
			17.87	12.03	95.78	39.18	10.20	83.47
			18.19	12.03	95.75	39.71	10.20	83.47
			18.47	12.03	95.71	40.28	10.18	83.27
			18.67	12.03	95.70	40.69	10.18	83.19

WT7 - 20-May-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
1.50	11.91	94.85
1.52	12.38	98.69
1.54	12.58	100.32
1.54	12.60	100.65
1.57	12.59	100.59
1.58	12.47	99.63
1.60	12.26	97.86
1.61	12.47	99.57
1.61	12.56	100.35
1.61	12.50	99.91
1.64	12.40	99.12
1.65	12.43	99.34
1.66	12.44	99.45
1.65	12.43	99.43
1.66	12.42	99.37
1.64	12.17	97.21
1.69	12.25	97.76
1.74	12.08	96.32
1.74	12.10	96.42
1.66	12.31	98.08
1.73	12.17	96.92
2.07	12.27	97.71
2.18	12.28	97.79
2.37	12.24	97.44
2.50	12.28	97.79
2.53	12.29	97.92
2.56	12.24	97.53
2.59	12.30	98.02
2.61	12.32	98.20
2.61	12.31	98.17
2.61	12.33	98.34
2.61	12.32	98.27
2.63	12.31	98.21
2.65	12.31	98.23
2.65	12.30	98.21
2.65	12.32	98.36
2.65	12.34	98.59
2.65	12.34	98.65
2.67	12.32	98.47
2.67	12.19	97.25
2.85	12.27	97.88
2.89	12.29	97.97
3.33	12.19	97.08
3.52	12.26	97.62
3.68	12.25	97.52
3.89	12.27	97.67

Table A3-1.3. Under-Ice Data for Dissolved Oxygen in Roberts Bay, Doris North Project, March-May 2011

WT7 - 20-May-11			WT8 - 20-May-11			WT8 - 20-May-11		
Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)		(mg/L)	(% Saturation)		(mg/L)	(% Saturation)
41.22	10.17	83.14	1.64	11.49	92.29	21.22	11.30	90.43
41.66	10.17	83.14	2.20	11.16	89.43	21.34	11.33	90.64
42.16	10.17	83.11	2.51	11.22	89.86	21.60	11.33	90.72
42.68	10.16	82.97	2.55	11.42	91.49	21.89	11.33	90.68
43.13	10.14	82.76	3.06	11.21	89.70	22.37	11.33	90.65
43.57	10.14	82.72	3.58	11.25	90.02	22.63	11.36	90.95
43.99	10.15	82.80	3.90	11.14	89.13	22.98	11.35	90.94
44.41	10.16	83.00	4.34	11.22	89.77	23.33	11.35	90.94
44.82	10.15	83.00	4.52	11.26	90.09	23.60	11.35	91.04
45.29	10.14	82.97	4.97	11.24	89.95	24.02	11.33	91.02
45.62	10.12	82.93	5.50	11.14	89.08	24.37	11.31	90.88
46.08	10.10	82.70	5.53	11.28	90.26	24.61	11.30	90.86
46.48	10.07	82.47	5.92	11.20	89.59	25.08	11.29	90.80
46.92	10.06	82.27	6.47	11.10	88.81	25.49	11.26	90.66
47.47	10.03	82.01	6.53	11.15	89.21	25.83	11.25	90.75
47.85	10.03	81.87	6.79	11.09	88.68	26.03	11.24	90.84
48.30	10.02	81.70	7.39	11.08	88.66	26.34	11.22	90.85
48.68	10.04	81.86	7.52	11.09	88.76	26.83	11.13	90.15
49.23	10.05	81.96	7.52	11.17	89.46	27.30	11.07	89.54
49.65	10.06	82.09	7.51	11.14	89.24	27.56	11.03	89.25
50.07	10.06	82.08	7.51	11.11	89.12	27.96	11.02	89.31
50.47	10.06	82.07	7.60	11.06	88.63	28.21	10.98	89.12
50.80	10.05	82.08	8.06	10.97	87.90	28.50	10.95	88.91
51.22	10.06	82.17	8.48	11.04	88.46	28.83	10.90	88.55
51.67	10.06	82.28	8.55	11.07	88.68	29.15	10.88	88.44
51.89	10.04	82.22	8.77	11.05	88.50	29.40	10.83	88.16
52.35	10.03	82.15	9.51	11.01	88.29	29.68	10.80	87.93
52.52	10.01	81.99	9.57	11.04	88.55	29.95	10.77	87.63
52.82	9.99	81.85	10.20	10.99	88.22	30.29	10.73	87.29
53.21	9.98	81.79	10.47	11.02	88.42	30.62	10.69	86.99
53.54	9.95	81.58	10.84	10.95	87.93	30.65	10.67	86.84
54.02	9.92	81.35	11.24	10.99	88.31	30.69	10.65	86.70
54.29	9.90	81.17	11.43	10.97	88.14	31.11	10.62	86.46
54.68	9.89	80.97	11.48	10.99	88.31	31.43	10.60	86.26
54.83	9.88	80.89	11.82	10.97	88.21	31.36	10.57	86.05
54.99	9.89	80.91	12.28	10.96	88.15	31.60	10.56	85.93
55.16	9.88	80.87	12.44	10.97	88.30	31.95	10.53	85.73
55.42	9.88	80.83	12.70	10.95	88.23	32.31	10.52	85.63
55.98	9.87	80.64	13.20	10.90	87.83	32.77	10.49	85.38
56.56	9.87	80.62	13.45	10.88	87.40	33.15	10.48	85.25
56.97	9.90	80.91	13.77	10.89	87.32	33.62	10.46	85.08
57.18	9.91	81.04	14.15	10.92	87.48	33.94	10.46	85.06
57.62	9.90	81.03	14.41	10.97	87.81	34.27	10.44	84.86
57.89	9.90	80.98	14.76	10.96	87.68	34.67	10.44	84.84
58.35	9.89	80.95	15.05	11.00	87.87	35.18	10.43	84.72
59.00	9.88	80.88	15.32	10.99	87.82	35.42	10.43	84.71
59.46	9.87	80.83	15.42	11.07	88.45	35.40	10.44	84.79
59.93	9.84	80.65	15.74	11.05	88.26	35.70	10.43	84.68
60.35	9.81	80.37	16.18	11.07	88.38	36.13	10.44	84.72
60.79	9.78	80.16	16.44	11.09	88.58	36.38	10.43	84.70
61.15	9.75	79.86	16.95	11.11	88.72	36.66	10.44	84.77
61.45	9.73	79.72	17.38	11.14	88.99	36.86	10.45	84.81
61.88	9.71	79.52	17.70	11.15	89.00	37.20	10.45	84.84
62.00	9.69	79.37	18.14	11.16	89.15	37.44	10.45	84.89
			18.42	11.19	89.39	37.89	10.45	84.89
			18.98	11.21	89.48	38.29	10.44	84.83
			19.35	11.24	89.75	38.71	10.44	84.84
			19.72	11.24	89.77	38.96	10.45	84.92
			20.13	11.23	89.65	39.26	10.43	84.91
			20.44	11.28	90.10	39.65	10.43	84.95
			20.86	11.29	90.32	40.11	10.42	84.93

WT8 - 20-May-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
1.53	11.31	90.72
1.63	11.20	89.85

Table A3-1.3. Under-Ice Data for Dissolved Oxygen in Roberts Bay, Doris North Project, March-May 2011

WT8 - 20-May-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
40.41	10.40	84.75
40.89	10.38	84.59
41.33	10.35	84.40
41.66	10.34	84.28
42.19	10.32	84.17
42.39	10.31	84.07
42.79	10.30	83.98
43.02	10.28	83.87

Table A3-1.4. Open-Water Data for Dissolved Oxygen in Roberts Bay, Doris North Project, July-September 2011

RBW - 21-Jul-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
0.00	10.03	89.30
0.50	10.07	89.40
1.00	11.02	86.80
1.50	11.28	86.50
2.00	11.47	87.00
2.50	11.58	87.00
3.00	11.64	85.80
3.50	11.73	85.70
4.00	11.64	84.50

ST2 - 21-Jul-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
0.55	6.82	64.68
0.79	7.26	67.29
1.11	7.92	71.21
1.20	8.42	75.11
1.32	8.43	74.83
1.57	8.81	78.13
1.77	9.23	81.65
1.90	9.56	84.18
1.97	9.90	86.97
2.16	10.08	88.26
2.22	10.38	90.77
2.32	10.47	91.64
2.39	10.71	93.50
2.64	10.93	95.44
2.75	11.02	96.31
2.83	11.19	97.84
2.86	11.28	98.68
3.05	11.55	101.04
3.26	11.54	101.03
3.48	11.65	101.98
3.64	11.72	102.38
3.83	11.89	103.59
4.06	11.88	103.27
4.34	12.01	104.16
4.55	12.00	103.82
4.66	12.13	104.94
4.77	12.15	105.04
4.84	12.22	105.63
5.02	12.17	105.20
5.28	12.21	105.52
5.67	12.25	105.67
5.86	12.22	104.71
6.00	12.38	106.01
6.14	12.34	105.38
6.44	12.22	104.21
6.60	12.35	105.11
6.85	12.35	104.82
6.89	12.41	105.12
7.12	12.38	104.74
7.44	12.39	104.66
7.79	12.40	104.77
7.84	12.57	105.87
7.84	12.68	106.91
7.85	12.62	106.68

ST3 - 21-Jul-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
1.04	9.74	97.16
1.23	9.74	92.02
1.34	10.28	94.38
1.55	10.61	96.51
1.75	11.01	99.62
1.95	11.29	101.78
2.16	11.40	102.38
2.35	11.75	105.37
2.48	11.99	107.40
2.58	12.23	109.41
2.67	12.34	110.25
2.74	12.41	110.79
2.85	12.36	110.33
2.96	12.48	111.31
3.06	12.58	112.10
3.16	12.73	113.42
3.29	12.77	113.73
3.39	12.83	114.17
3.45	12.89	114.66
3.57	12.93	114.91
3.69	12.97	115.20
3.80	13.04	115.64
3.90	13.10	116.04
4.02	13.12	116.13
4.16	13.21	116.80
4.26	13.25	117.07
4.37	13.27	117.09
4.48	13.37	117.65
4.60	13.43	117.97
4.71	13.44	117.74
4.80	13.53	118.46
4.88	13.58	118.73
4.96	13.62	118.97
5.08	13.64	119.10
5.17	13.65	119.04
5.26	13.66	119.04
5.33	13.67	118.88
5.42	13.73	119.20
5.51	13.76	118.91
5.63	13.72	118.09
5.82	13.73	117.88
5.92	13.70	117.46
6.04	13.76	117.83
6.16	13.80	118.15
6.31	13.83	118.40
6.40	13.89	118.99
6.49	13.92	119.24
6.62	13.95	119.49
6.71	14.06	120.38
6.81	14.03	120.14
6.97	14.03	120.00
7.10	14.04	119.95
7.29	14.05	119.94
7.36	14.05	119.84
7.43	14.05	119.79
7.60	14.00	119.19
7.79	14.00	119.03
8.00	14.06	119.53
8.17	14.03	119.16
8.33	14.03	119.10

ST3 - 21-Jul-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
8.56	14.07	119.39
8.81	14.06	119.16
8.91	14.08	119.30
8.98	14.04	118.88
9.18	14.03	118.74
9.27	14.02	118.66
9.39	14.04	118.79
9.56	14.03	118.60
9.72	14.05	118.62
9.96	14.01	118.24
10.13	14.02	118.31
10.41	13.97	117.74
10.61	14.00	117.90
10.84	13.97	117.58

ST4 - 21-Jul-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
1.05	9.87	96.75
1.31	10.12	96.58
1.44	10.43	96.18
1.53	10.61	96.79
1.64	10.65	96.54
1.67	10.55	95.08
1.76	10.71	96.32
1.83	10.99	98.66
1.97	11.14	99.96
2.05	11.32	101.57
2.12	11.48	103.77
2.23	11.57	104.16
2.34	11.67	104.74
2.42	11.72	105.02
2.49	11.82	105.94
2.59	11.86	106.22
2.65	11.93	106.86
2.72	11.98	107.25
2.77	12.02	107.58
2.84	12.10	108.31
2.91	12.09	108.22
3.02	12.13	108.50
3.13	12.13	108.69
3.26	12.18	109.17
3.36	12.25	109.67
3.43	12.28	109.65
3.49	12.26	108.91
3.53	12.24	108.56
3.60	12.23	108.24
3.68	12.20	107.87
3.75	12.24	107.95
3.86	12.25	107.89
3.98	12.26	107.71
4.11	12.25	107.40
4.24	12.24	107.20
4.25	12.31	107.70
4.42	12.29	107.40
4.50	12.32	107.39
4.59	12.34	107.22
4.71	12.31	106.62
4.83	12.31	106.55

Table A3-1.4. Open-Water Data for Dissolved Oxygen in Roberts Bay, Doris North Project, July-September 2011

ST4 - 21-Jul-11			ST4 - 21-Jul-11			ST5 - 21-Jul-11		
Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)		(mg/L)	(% Saturation)		(mg/L)	(% Saturation)
5.01	12.34	106.61	20.91	11.66	95.06	5.01	11.57	101.10
5.21	12.29	105.62	20.79	11.61	94.69	5.29	11.64	101.04
5.40	12.27	104.68	20.81	11.59	94.51	5.61	11.69	100.86
5.53	12.27	104.15	21.45	11.56	94.23	5.86	11.68	99.49
5.63	12.28	103.97	21.74	11.52	93.89	6.01	11.68	98.64
5.77	12.25	103.46	22.43	11.48	93.59	6.11	11.72	98.22
6.04	12.27	103.46	23.29	11.45	93.35	6.21	11.76	98.08
6.26	12.36	104.19	23.70	11.38	92.86	6.34	11.79	98.20
6.36	12.37	104.32	24.22	11.29	92.17	6.44	11.87	98.87
6.45	12.38	104.48	24.77	11.19	91.34	6.63	11.96	99.53
6.68	12.42	104.99	25.36	11.07	90.39	6.95	12.06	100.42
6.95	12.44	105.25	25.93	10.93	89.26	7.38	12.14	101.05
7.10	12.50	105.66	26.59	10.79	88.13	7.57	12.19	101.35
7.22	12.47	105.24	27.47	10.63	86.87	7.79	12.25	101.85
7.35	12.48	105.20	28.11	10.49	85.68	8.07	12.27	102.00
7.52	12.48	105.03	28.74	10.36	84.62	8.31	12.32	102.35
7.65	12.48	104.95	29.45	10.25	83.69	8.76	12.35	102.53
7.75	12.47	104.84	29.97	10.15	82.89	9.22	12.28	101.54
8.15	12.45	104.69	30.49	10.06	82.15	9.72	12.35	102.31
8.58	12.49	105.09	30.99	9.98	81.48	10.18	12.36	102.43
8.85	12.48	104.77	31.39	9.90	80.86	10.66	12.35	102.23
9.32	12.47	104.77	32.08	9.83	80.26	11.12	12.29	101.50
9.78	12.50	104.96	32.33	9.76	79.74	11.27	12.27	101.29
10.20	12.51	105.19	32.82	9.71	79.25	11.65	12.29	101.39
10.59	12.52	105.29	32.97	9.65	78.80	11.96	12.28	101.27
10.85	12.50	105.01	33.27	9.61	78.41	12.23	12.25	100.95
10.94	12.51	104.79	34.36	9.55	77.95	12.46	12.25	100.86
11.17	12.39	103.21	35.22	9.51	77.56	12.54	12.25	100.85
11.22	12.41	103.15	35.57	9.47	77.21	12.52	12.24	100.79
11.45	12.36	102.62	35.80	9.43	76.90	12.34	12.24	100.77
11.70	12.35	102.31	36.30	9.39	76.44	12.28	12.23	100.77
12.07	12.32	101.99	36.66	9.35	76.10	12.49	12.23	100.68
12.47	12.31	101.55	37.76	9.33	75.85	12.69	12.23	100.67
12.62	12.32	101.64	38.76	9.31	75.65	12.93	12.21	100.54
12.78	12.32	101.71	38.98	9.32	75.68	13.23	12.21	100.52
12.95	12.30	101.53	40.07	9.32	75.65	13.45	12.20	100.39
13.23	12.29	101.57	41.02	9.32	75.61	13.69	12.20	100.38
13.50	12.26	101.19	41.54	9.34	75.72	13.76	12.20	100.38
13.76	12.26	101.19	42.42	9.34	75.72	13.72	12.18	100.25
14.06	12.24	100.92	43.53	9.35	75.76	13.43	12.19	100.30
14.44	12.23	100.78	44.59	9.35	75.80	12.96	12.18	100.21
14.84	12.18	100.32	45.28	9.38	75.97	12.51	12.20	100.39
15.07	12.19	100.31	45.36	9.38	76.02	12.16	12.21	100.51
15.19	12.18	100.17				12.27	12.22	100.64
15.27	12.14	99.89				12.73	12.23	100.69
15.47	12.13	99.73				13.35	12.23	100.66
15.73	12.10	99.48				13.86	12.20	100.29
16.24	12.08	99.27				14.49	12.20	99.99
16.49	12.07	99.19				15.00	12.14	99.12
17.09	12.04	98.83				15.26	12.13	98.87
17.37	12.02	98.67				15.39	12.16	99.02
17.56	12.00	98.45				15.79	12.12	98.59
17.89	11.98	98.24				16.36	12.07	97.96
18.17	11.94	97.84				16.69	12.05	97.70
18.68	11.90	97.22				16.49	12.01	97.36
18.96	11.89	97.04				16.59	11.97	97.00
19.59	11.86	96.77				16.54	11.95	96.85
20.12	11.84	96.57				16.56	11.92	96.65
20.34	11.80	96.21				16.56	11.90	96.45
20.72	11.75	95.81				16.60	11.88	96.27
20.91	11.71	95.46				16.84	11.87	96.18
20.94	11.68	95.22				17.10	11.84	95.96

ST5 - 21-Jul-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
0.93	9.07	93.07
1.23	8.96	87.20
1.57	9.22	88.03
2.14	9.20	84.81
2.48	9.70	88.40
2.80	9.98	90.12
3.02	10.24	91.47
3.23	10.47	93.03
3.44	10.74	95.16
3.88	10.88	95.61
4.00	11.09	97.25
4.09	11.22	98.29
4.29	11.36	99.51
4.72	11.50	100.66

Table A3-1.4. Open-Water Data for Dissolved Oxygen in Roberts Bay, Doris North Project, July-September 2011

ST5 - 21-Jul-11			ST5 - 21-Jul-11			ST6 - 21-Jul-11		
Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen		Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)		(mg/L)	(% Saturation)		(mg/L)	(% Saturation)
17.31	11.82	95.74	56.55	9.68	78.30	34.15	10.05	81.83
17.57	11.81	95.63	57.18	9.70	78.49	35.32	9.93	80.71
18.14	11.79	95.51	58.48	9.72	78.64	36.39	9.85	80.00
19.04	11.80	95.63	59.57	9.74	78.76	37.73	9.77	79.35
19.77	11.79	95.58	60.40	9.75	78.82	38.59	9.75	79.10
20.29	11.72	95.24	61.95	9.75	78.86	39.62	9.73	78.98
20.71	11.62	94.69	63.15	9.77	78.96	40.43	9.71	78.74
21.13	11.50	93.97	64.26	9.77	78.97	41.91	9.66	78.36
21.85	11.31	92.50	65.79	9.79	79.11	42.98	9.65	78.24
22.20	11.12	90.90	66.56	9.80	79.21	43.97	9.64	78.20
22.95	10.94	89.38	67.49	9.79	79.16	45.03	9.63	78.13
23.53	10.78	88.07	67.60	9.80	79.18	46.00	9.63	78.13
24.21	10.63	86.93	68.00	9.80	79.18	46.67	9.65	78.27
24.36	10.53	86.12	68.94	9.80	79.17	47.64	9.61	77.90
24.44	10.45	85.52	69.60	9.80	79.19	48.38	9.60	77.87
24.56	10.39	85.00	70.42	9.81	79.22	50.00	9.60	77.86
24.79	10.32	84.42	70.88	9.81	79.21	51.37	9.59	77.78
24.94	10.25	83.83	71.22	9.82	79.35	52.65	9.60	77.83
25.02	10.18	83.25				53.97	9.58	77.58
25.44	10.11	82.63				55.00	9.62	77.91
25.38	10.06	82.21				56.00	9.63	77.95
25.18	10.00	81.79				57.05	9.68	78.33
24.89	9.95	81.40				57.71	9.69	78.45
24.43	9.91	81.05				58.31	9.70	78.49
24.17	9.86	80.65				59.38	9.71	78.57
24.01	9.83	80.35				61.06	9.72	78.66
23.84	9.79	80.01				62.02	9.74	78.83
23.71	9.75	79.70				62.84	9.77	79.10
23.87	9.72	79.45				63.33	9.79	79.26
23.93	9.69	79.23				64.46	9.79	79.23
24.16	9.68	79.09				65.32	9.81	79.34
24.29	9.67	79.05				65.99	9.82	79.45
24.68	9.66	78.97				66.62	9.83	79.50
24.77	9.65	78.93				67.24	9.84	79.59
25.05	9.64	78.85				68.16	9.85	79.66
25.66	9.63	78.77				68.80	9.85	79.65
26.84	9.60	78.50				69.68	9.84	79.61
27.86	9.58	78.33				70.72	9.85	79.64
28.79	9.52	77.87				71.63	9.86	79.74
30.11	9.48	77.42				72.45	9.87	79.83
31.65	9.43	77.00				73.31	9.87	79.81
33.43	9.41	76.76				74.09	9.87	79.77
35.44	9.36	76.31				74.70	9.89	79.93
37.14	9.31	75.89				75.30	9.91	80.05
37.65	9.28	75.60				75.81	9.90	79.98
38.49	9.24	75.18				76.56	9.91	80.07
40.39	9.23	74.94				77.24	9.95	80.35
41.25	9.25	75.04				78.05	9.96	80.47
43.35	9.28	75.24				78.62	9.95	80.40
43.17	9.32	75.54				79.21	9.97	80.49
43.81	9.35	75.75				80.08	9.96	80.39
45.03	9.37	75.91				80.59	9.98	80.54
46.82	9.41	76.21				80.93	10.01	80.80
47.57	9.46	76.62						
48.17	9.48	76.75						
49.96	9.50	76.89						
50.50	9.54	77.19						
51.65	9.58	77.51						
52.33	9.60	77.71						
53.03	9.63	77.90						
54.09	9.64	78.04						
55.34	9.66	78.18						

ST6 - 21-Jul-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
1.94	8.30	82.88
2.53	8.90	82.15
3.03	9.22	83.29
4.41	9.53	84.07
4.94	10.03	87.63
5.24	10.17	88.50
5.67	10.51	90.69
6.42	10.62	90.33
7.05	10.88	90.97
7.50	10.98	91.01
7.88	11.31	93.57
8.22	11.54	95.57
9.17	11.46	95.59
9.77	11.78	98.49
9.84	12.03	100.67
9.91	11.96	100.07
10.77	11.88	98.79
10.94	11.99	99.61
11.51	11.95	99.30
12.38	12.08	100.46
12.99	12.10	100.38
14.10	11.88	97.62
15.60	11.84	96.88
17.51	11.82	96.41
18.87	11.86	96.53
19.83	11.85	96.33
20.67	11.84	96.20
21.81	11.72	95.16
22.99	11.63	94.31
23.48	11.63	94.31
24.90	11.40	92.38
26.22	11.28	91.47
27.51	11.14	90.50
28.56	11.02	89.99
29.39	10.84	88.61
30.35	10.67	87.24
31.42	10.49	85.77
32.43	10.30	84.15
33.41	10.16	82.76

ST6B - 21-Jul-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
1.04	9.53	97.42
1.90	9.22	90.38
3.72	8.91	82.31
4.35	9.36	83.17

Table A3-1.4. Open-Water Data for Dissolved Oxygen in Roberts Bay, Doris North Project, July-September 2011

ST6B - 21-Jul-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
6.03	9.46	80.72
8.62	9.66	80.49
10.01	10.10	83.51
13.40	10.33	84.81
15.49	10.63	87.02
17.73	10.87	88.61
20.19	10.84	88.17
22.63	10.78	87.48
25.24	10.65	86.48
27.48	10.53	85.93
29.14	10.34	84.47
31.22	10.16	83.11
32.81	9.98	81.65
35.79	9.77	79.85
37.34	9.61	78.60
37.70	9.57	78.24
39.40	9.41	76.79
40.71	9.39	76.34
41.29	9.32	75.68
42.21	9.33	75.72
44.03	9.33	75.71
44.04	9.42	76.41
43.89	9.48	76.91
43.87	9.52	77.24
43.91	9.50	77.09
45.55	9.47	76.78
48.59	9.49	76.89
48.71	9.54	77.31
48.88	9.64	78.13
51.19	9.56	77.46
52.93	9.62	77.93
54.18	9.63	78.02
56.00	9.66	78.25
56.16	9.69	76.69

RBW - 14-Aug-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
0.00	8.39	89.40
0.50	8.39	89.20
1.00	8.45	89.70
1.50	8.48	89.60
2.00	8.94	90.30
2.50	9.88	94.00
3.00	10.03	94.10

ST4 - 14-Aug-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
0.00	9.01	85.50
1.00	9.03	85.30
2.00	9.06	85.20
3.00	9.08	85.00
4.00	9.21	84.50
5.00	9.29	83.20
6.00	9.41	83.20
7.00	9.44	83.20
8.00	9.43	82.70
9.00	9.46	82.80
10.00	9.50	82.80

ST4 - 14-Aug-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
11.00	9.49	82.80
12.00	9.49	82.80
13.00	9.50	82.70
14.00	9.50	82.50
15.00	9.51	82.40
16.00	9.51	82.40
17.00	9.53	82.30
18.00	9.52	82.00
19.00	9.48	81.20
20.00	9.44	80.40
22.00	9.31	78.50
24.00	9.16	76.90
26.00	9.08	76.20
28.00	9.07	75.90
30.00	8.99	74.80
32.00	8.87	73.20
34.00	8.77	72.70
36.00	8.64	71.00

ST5 - 14-Aug-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
0.00	8.93	85.40
1.00	8.95	85.20
2.00	9.05	83.80
3.00	9.16	84.20
4.00	9.20	83.40
5.00	9.27	83.50
6.00	9.39	82.00
7.00	9.44	81.90
8.00	9.46	82.00
9.00	9.49	82.00
10.00	9.49	82.00
11.00	9.50	81.90
12.00	9.48	81.40
13.00	9.48	81.00
14.00	9.45	80.40
15.00	9.44	80.00
16.00	9.40	79.20
17.00	9.39	78.80
18.00	9.40	78.60
19.00	9.34	78.00
20.00	9.33	77.80
22.00	9.24	76.70
24.00	9.18	76.20
26.00	9.11	75.60
28.00	9.06	75.20
30.00	9.04	75.00
32.00	9.03	74.80
34.00	8.99	74.30
36.00	8.92	73.70
38.00	8.83	72.90
40.00	8.70	71.40
44.00	8.64	70.70
48.00	8.42	67.90
52.00	8.27	66.70
56.00	8.24	66.50
60.00	8.24	66.50
62.00	8.25	66.50

RBW - 11-Sep-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
0.00	11.65	86.90
0.50	11.64	86.60
1.00	11.62	86.20
1.50	11.63	85.90
2.00	11.64	86.00
2.50	11.64	86.00
3.00	11.64	86.00
3.50	11.64	85.90
4.00	11.63	85.90
4.50	11.63	85.90
5.00	11.64	85.80

ST4 - 22-Sep-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
0.00	11.23	85.30
0.50	11.46	86.70
1.00	11.48	86.80
1.50	11.49	86.90
2.00	11.54	86.80
2.50	11.61	86.90
3.00	11.62	87.00
3.50	11.63	87.10
4.00	11.67	87.10
4.50	11.67	87.20
5.00	11.67	86.90
5.50	11.71	86.90
6.00	11.71	87.00
6.50	11.71	86.90
7.00	11.70	86.90
7.50	11.69	86.80
8.00	11.69	86.80
8.50	11.68	86.80
9.00	11.71	86.70
9.50	11.70	86.70
10.00	11.73	86.60
11.00	11.73	86.70
12.00	11.71	86.60
13.00	11.72	86.60
14.00	11.71	86.50
15.00	11.64	85.80
20.00	11.41	80.40
25.00	11.11	76.40
30.00	10.80	73.60
35.00	10.65	72.20
40.00	10.52	71.20
45.00	10.42	70.30

ST5 - 22-Sep-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
0.00	11.44	86.50
0.50	11.49	86.90
1.00	11.51	87.10
1.50	11.56	87.20
2.00	11.57	87.30
2.50	11.57	87.30
3.00	11.57	87.30
3.50	11.57	87.40
4.00	11.61	87.40

Table A3-1.4. Open-Water Data for Dissolved Oxygen in Roberts Bay, Doris North Project, July-September 2011

ST5 - 22-Sep-11		
Depth (m)	Dissolved Oxygen	
	(mg/L)	(% Saturation)
4.50	11.61	87.20
5.00	11.62	87.30
5.50	11.65	87.30
6.00	11.69	87.30
6.50	11.69	87.30
7.00	11.72	87.30
7.50	11.72	87.30
8.00	11.72	87.30
8.50	11.72	87.30
9.00	11.74	87.20
9.50	11.73	87.20
10.00	11.72	87.10
11.00	11.72	87.10
12.00	11.73	87.10
13.00	11.74	87.20
14.00	11.72	87.10
15.00	11.72	86.40
20.00	11.54	82.80
25.00	11.27	78.60
30.00	10.91	74.50
35.00	10.66	72.00
40.00	10.39	70.00
45.00	10.34	69.30
50.00	10.36	69.50
55.00	10.34	69.30
60.00	10.36	69.50
65.00	10.35	69.60
70.00	10.36	69.50
75.00	10.15	68.20

Appendix 3-2

Surface Winds over Roberts Bay and Riverine Discharge
into Roberts Bay (Time Series), Doris North Project, 2011

Appendix 3-2. Surface Winds over Roberts Bay and Riverine Discharge into Roberts Bay (Time Series), Doris North Project, 2011

List of Tables

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011

Table A3-2.2. Freshwater Flow Time Series of Roberts and Doris Creeks Flowing into Roberts Bay, Doris North Project, 2011

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
5/2/2011 18:00	9.79	278
5/2/2011 19:00	8.70	281.5
5/2/2011 20:00	8.87	285.2
5/2/2011 21:00	7.47	279.7
5/2/2011 22:00	7.38	282.3
5/2/2011 23:00	5.47	264.4
5/3/2011 0:00	5.72	258.5
5/3/2011 1:00	6.55	252.1
5/3/2011 2:00	5.01	256.4
5/3/2011 3:00	4.43	257.9
5/3/2011 4:00	3.60	252.4
5/3/2011 5:00	2.93	249.3
5/3/2011 6:00	2.04	246.8
5/3/2011 7:00	2.02	254.3
5/3/2011 8:00	2.93	234.6
5/3/2011 9:00	2.66	249.3
5/3/2011 10:00	4.74	253.5
5/3/2011 11:00	4.73	257.2
5/3/2011 12:00	4.14	260.2
5/3/2011 13:00	4.49	258.3
5/3/2011 14:00	5.17	255.6
5/3/2011 15:00	3.84	259.2
5/3/2011 16:00	2.91	263.6
5/3/2011 17:00	2.41	260.3
5/3/2011 18:00	1.59	270.3
5/3/2011 19:00	0.98	269.1
5/3/2011 20:00	0.87	246.8
5/3/2011 21:00	0.58	22.42
5/3/2011 22:00	0.73	339.4
5/3/2011 23:00	0.59	255.1
5/4/2011 0:00	1.40	141.9
5/4/2011 1:00	1.81	144.5
5/4/2011 2:00	2.61	141.5
5/4/2011 3:00	1.71	137.8
5/4/2011 4:00	2.23	141
5/4/2011 5:00	1.17	132.5
5/4/2011 6:00	0.91	142.2
5/4/2011 7:00	2.11	147.2
5/4/2011 8:00	3.10	136.9
5/4/2011 9:00	4.43	135.9
5/4/2011 10:00	5.02	137.4
5/4/2011 11:00	5.07	135.7
5/4/2011 12:00	5.13	121.7
5/4/2011 13:00	5.43	111.8
5/4/2011 14:00	5.45	112.1
5/4/2011 15:00	4.93	113.4
5/4/2011 16:00	5.05	111.7
5/4/2011 17:00	4.91	110.2
5/4/2011 18:00	5.14	110.3
5/4/2011 19:00	5.50	112.1
5/4/2011 20:00	5.11	114.2
5/4/2011 21:00	5.66	121.3
5/4/2011 22:00	6.19	124.9
5/4/2011 23:00	6.07	134.2
5/5/2011 0:00	6.23	140.2
5/5/2011 1:00	5.72	141.8
5/5/2011 2:00	4.98	140
5/5/2011 3:00	4.18	134.7
5/5/2011 4:00	4.38	137.1
5/5/2011 5:00	3.79	136.3
5/5/2011 6:00	3.57	135.5
5/5/2011 7:00	1.91	131.8
5/5/2011 8:00	3.48	127.5
5/5/2011 9:00	4.07	124.5
5/5/2011 10:00	4.22	122.2
5/5/2011 11:00	4.05	118.8
5/5/2011 12:00	4.08	115.8
5/5/2011 13:00	4.57	119.3
5/5/2011 14:00	4.48	109.7
5/5/2011 15:00	4.59	119.2

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
5/5/2011 16:00	3.92	113.7
5/5/2011 17:00	4.23	114.9
5/5/2011 18:00	4.49	122.4
5/5/2011 19:00	4.61	116.9
5/5/2011 20:00	4.31	118.7
5/5/2011 21:00	4.94	124.1
5/5/2011 22:00	4.94	127
5/5/2011 23:00	3.88	130.8
5/6/2011 0:00	3.98	136.4
5/6/2011 1:00	3.12	143.9
5/6/2011 2:00	3.11	134.8
5/6/2011 3:00	3.32	144
5/6/2011 4:00	2.10	140.4
5/6/2011 5:00	1.27	138.2
5/6/2011 6:00	0.97	154
5/6/2011 7:00	0.66	183.4
5/6/2011 8:00	1.37	262.7
5/6/2011 9:00	2.96	266
5/6/2011 10:00	3.35	262.5
5/6/2011 11:00	4.47	261.5
5/6/2011 12:00	3.30	261.9
5/6/2011 13:00	3.32	263.9
5/6/2011 14:00	3.62	267.7
5/6/2011 15:00	3.90	255.7
5/6/2011 16:00	3.94	254.6
5/6/2011 17:00	3.31	256.4
5/6/2011 18:00	3.03	257.8
5/6/2011 19:00	1.74	246.2
5/6/2011 20:00	0.90	208.9
5/6/2011 21:00	0.61	87.3
5/6/2011 22:00	0.48	52.85
5/6/2011 23:00	1.12	109.2
5/7/2011 0:00	2.53	121.2
5/7/2011 1:00	3.27	116.3
5/7/2011 2:00	4.23	115.2
5/7/2011 3:00	3.31	111.5
5/7/2011 4:00	3.94	102.9
5/7/2011 5:00	5.14	102.6
5/7/2011 6:00	6.17	98.7
5/7/2011 7:00	4.89	90.5
5/7/2011 8:00	5.57	97.9
5/7/2011 9:00	5.61	108.6
5/7/2011 10:00	5.50	92.9
5/7/2011 11:00	5.30	85.8
5/7/2011 12:00	4.28	103.1
5/7/2011 13:00	3.79	105.9
5/7/2011 14:00	2.86	96.1
5/7/2011 15:00	3.23	81.1
5/7/2011 16:00	4.20	71.85
5/7/2011 17:00	4.30	68.34
5/7/2011 18:00	4.01	50.99
5/7/2011 19:00	3.27	53.4
5/7/2011 20:00	5.36	65.52
5/7/2011 21:00	5.05	61.23
5/7/2011 22:00	1.98	59.4
5/7/2011 23:00	4.19	65.79
5/8/2011 0:00	3.57	60.3
5/8/2011 1:00	4.80	85
5/8/2011 2:00	6.88	76.52
5/8/2011 3:00	5.43	85.8
5/8/2011 4:00	4.47	86.7
5/8/2011 5:00	5.47	78.89
5/8/2011 6:00	5.66	74.62
5/8/2011 7:00	6.57	70.14
5/8/2011 8:00	7.33	76.03
5/8/2011 9:00	9.08	80.1
5/8/2011 10:00	9.13	76.42
5/8/2011 11:00	10.15	79.02
5/8/2011 12:00	9.02	88.8
5/8/2011 13:00	10.73	83.9

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
5/8/2011 14:00	11.12	75.09
5/8/2011 15:00	10.41	80.4
5/8/2011 16:00	9.17	89.7
5/8/2011 17:00	9.33	89.9
5/8/2011 18:00	9.97	86.9
5/8/2011 19:00	9.61	88.7
5/8/2011 20:00	9.65	90.9
5/8/2011 21:00	9.94	95.3
5/8/2011 22:00	9.60	100.6
5/8/2011 23:00	11.23	112.3
5/9/2011 0:00	12.14	107.9
5/9/2011 1:00	13.18	113.3
5/9/2011 2:00	13.76	111.1
5/9/2011 3:00	12.53	116.1
5/9/2011 4:00	12.61	117
5/9/2011 5:00	12.41	117.1
5/9/2011 6:00	12.64	115
5/9/2011 7:00	12.98	115.6
5/9/2011 8:00	13.20	113
5/9/2011 9:00	12.90	119.6
5/9/2011 10:00	13.59	113
5/9/2011 11:00	13.38	112.1
5/9/2011 12:00	12.08	107
5/9/2011 13:00	13.55	123.5
5/9/2011 14:00	12.31	117.8
5/9/2011 15:00	7.06	130.6
5/9/2011 16:00	6.25	136.6
5/9/2011 17:00	5.00	136.4
5/9/2011 18:00	4.88	169.2
5/9/2011 19:00	2.82	185.6
5/9/2011 20:00	1.55	173.3
5/9/2011 21:00	1.40	139.3
5/9/2011 22:00	2.20	149.5
5/9/2011 23:00	1.57	158.2
5/10/2011 0:00	3.12	139.6
5/10/2011 1:00	3.41	144.9
5/10/2011 2:00	2.42	142.2
5/10/2011 3:00	3.73	140.6
5/10/2011 4:00	5.36	154.6
5/10/2011 5:00	4.67	143.7
5/10/2011 6:00	2.94	121.7
5/10/2011 7:00	6.51	154.3
5/10/2011 8:00	6.72	144.8
5/10/2011 9:00	5.92	128
5/10/2011 10:00	7.92	132.2
5/10/2011 11:00	8.97	131.3
5/10/2011 12:00	8.65	130.7
5/10/2011 13:00	9.16	141.3
5/10/2011 14:00	10.66	144.1
5/10/2011 15:00	11.52	144.6
5/10/2011 16:00	12.45	143.5
5/10/2011 17:00	12.72	139.1
5/10/2011 18:00	12.45	138.4
5/10/2011 19:00	12.55	141.8
5/10/2011 20:00	12.76	139.5
5/10/2011 21:00	12.06	137.7
5/10/2011 22:00	12.31	137.2
5/10/2011 23:00	9.94	130.7
5/11/2011 0:00	10.54	134.2
5/11/2011 1:00	12.82	133.7
5/11/2011 2:00	9.82	136.9
5/11/2011 3:00	9.61	138.6
5/11/2011 4:00	7.59	133.9
5/11/2011 5:00	9.16	149.9
5/11/2011 6:00	8.03	141.5
5/11/2011 7:00	6.23	141.3
5/11/2011 8:00	6.98	159
5/11/2011 9:00	4.91	159.1
5/11/2011 10:00	5.60	189.5
5/11/2011 11:00	3.44	134.8

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
5/11/2011 12:00	5.01	157.5
5/11/2011 13:00	3.16	154.9
5/11/2011 14:00	4.15	164
5/11/2011 15:00	2.13	147.3
5/11/2011 16:00	1.40	132.2
5/11/2011 17:00	1.19	166.1
5/11/2011 18:00	0.44	127.3
5/11/2011 19:00	0.51	181.2
5/11/2011 20:00	0.62	287.2
5/11/2011 21:00	1.90	324.9
5/11/2011 22:00	2.10	347.9
5/11/2011 23:00	3.39	4.62
5/12/2011 0:00	6.00	23.66
5/12/2011 1:00	7.43	29.39
5/12/2011 2:00	8.88	26.57
5/12/2011 3:00	7.79	27.54
5/12/2011 4:00	7.51	31.57
5/12/2011 5:00	7.56	27.54
5/12/2011 6:00	9.30	26.29
5/12/2011 7:00	7.39	30.74
5/12/2011 8:00	8.10	25.53
5/12/2011 9:00	8.61	27.13
5/12/2011 10:00	7.61	32.04
5/12/2011 11:00	7.84	30.05
5/12/2011 12:00	7.33	16.68
5/12/2011 13:00	9.58	20.99
5/12/2011 14:00	7.79	29.59
5/12/2011 15:00	9.19	27.32
5/12/2011 16:00	9.00	28.59
5/12/2011 17:00	8.15	26.09
5/12/2011 18:00	8.45	31.83
5/12/2011 19:00	7.59	33.92
5/12/2011 20:00	7.47	34.92
5/12/2011 21:00	7.58	33.12
5/12/2011 22:00	8.43	35.88
5/12/2011 23:00	7.74	37.65
5/13/2011 0:00	8.66	27.65
5/13/2011 1:00	7.88	36.34
5/13/2011 2:00	7.97	37.94
5/13/2011 3:00	6.31	44.21
5/13/2011 4:00	6.59	36.94
5/13/2011 5:00	6.59	36.71
5/13/2011 6:00	6.40	33.93
5/13/2011 7:00	5.04	29.19
5/13/2011 8:00	5.78	41.43
5/13/2011 9:00	5.41	70.37
5/13/2011 10:00	6.11	64.75
5/13/2011 11:00	6.22	69.26
5/13/2011 12:00	4.72	70.35
5/13/2011 13:00	4.93	83.9
5/13/2011 14:00	5.17	88.8
5/13/2011 15:00	5.24	75.13
5/13/2011 16:00	5.47	75.13
5/13/2011 17:00	5.10	80.8
5/13/2011 18:00	5.12	91.6
5/13/2011 19:00	5.67	83.1
5/13/2011 20:00	6.55	85.7
5/13/2011 21:00	6.79	103.2
5/13/2011 22:00	7.12	105.7
5/13/2011 23:00	6.89	111.3
5/14/2011 0:00	6.25	127.4
5/14/2011 1:00	4.61	133.8
5/14/2011 2:00	5.30	123.2
5/14/2011 3:00	7.35	127.6
5/14/2011 4:00	8.72	127.4
5/14/2011 5:00	6.60	134.1
5/14/2011 6:00	7.08	127.2
5/14/2011 7:00	6.77	105.9
5/14/2011 8:00	6.55	108.5
5/14/2011 9:00	7.24	101.7

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
5/14/2011 10:00	5.74	98.1
5/14/2011 11:00	6.38	99.4
5/14/2011 12:00	7.46	112.5
5/14/2011 13:00	6.89	131.6
5/14/2011 14:00	4.39	126.4
5/14/2011 15:00	4.48	103.2
5/14/2011 16:00	3.82	113.4
5/14/2011 17:00	2.13	109.4
5/14/2011 18:00	1.67	65.88
5/14/2011 19:00	1.36	23.02
5/14/2011 20:00	0.64	334.6
5/14/2011 21:00	2.47	0.913
5/14/2011 22:00	1.95	17.02
5/14/2011 23:00	1.40	80.7
5/15/2011 0:00	2.13	115.8
5/15/2011 1:00	2.40	132.1
5/15/2011 2:00	2.32	129.6
5/15/2011 3:00	2.37	125.3
5/15/2011 4:00	3.78	90.9
5/15/2011 5:00	3.51	117.5
5/15/2011 6:00	4.18	123.7
5/15/2011 7:00	3.97	118.6
5/15/2011 8:00	4.68	119.5
5/15/2011 9:00	5.55	88.6
5/15/2011 10:00	6.55	80.8
5/15/2011 11:00	5.95	109.6
5/15/2011 12:00	6.45	108.1
5/15/2011 13:00	8.44	77.41
5/15/2011 14:00	8.71	82
5/15/2011 15:00	9.19	93.2
5/15/2011 16:00	9.58	88.1
5/15/2011 17:00	10.19	85.7
5/15/2011 18:00	9.68	86.2
5/15/2011 19:00	10.45	78.73
5/15/2011 20:00	10.51	89.5
5/15/2011 21:00	11.29	83.2
5/15/2011 22:00	10.86	87.5
5/15/2011 23:00	11.10	85.4
5/16/2011 0:00	11.23	89.8
5/16/2011 1:00	12.66	88.1
5/16/2011 2:00	11.40	77.26
5/16/2011 3:00	12.08	75.88
5/16/2011 4:00	12.76	76.82
5/16/2011 5:00	12.44	79.78
5/16/2011 6:00	13.04	81.3
5/16/2011 7:00	14.86	78.14
5/16/2011 8:00	14.88	82.7
5/16/2011 9:00	14.63	80.8
5/16/2011 10:00	13.76	82.6
5/16/2011 11:00	14.75	81.1
5/16/2011 12:00	16.59	76.74
5/16/2011 13:00	16.34	76.48
5/16/2011 14:00	15.29	77.61
5/16/2011 15:00	15.98	77.79
5/16/2011 16:00	16.68	77.88
5/16/2011 17:00	16.16	79.48
5/16/2011 18:00	14.64	78.39
5/16/2011 19:00	15.28	72.23
5/16/2011 20:00	15.74	77.13
5/16/2011 21:00	16.38	72.76
5/16/2011 22:00	15.11	74.1
5/16/2011 23:00	12.70	77.51
5/17/2011 0:00	11.91	84.4
5/17/2011 1:00	10.98	86.2
5/17/2011 2:00	10.03	85.7
5/17/2011 3:00	10.54	88
5/17/2011 4:00	9.30	88.5
5/17/2011 5:00	7.35	101.8
5/17/2011 6:00	7.66	96.8
5/17/2011 7:00	6.69	91.2

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
5/17/2011 8:00	8.00	89.2
5/17/2011 9:00	7.11	88.2
5/17/2011 10:00	7.94	81.7
5/17/2011 11:00	8.80	86.9
5/17/2011 12:00	9.74	84.4
5/17/2011 13:00	11.13	83.3
5/17/2011 14:00	10.95	88.4
5/17/2011 15:00	10.47	85.5
5/17/2011 16:00	10.32	87.6
5/17/2011 17:00	10.15	94.1
5/17/2011 18:00	9.64	100.8
5/17/2011 19:00	9.27	102.2
5/17/2011 20:00	9.38	100.1
5/17/2011 21:00	10.33	101
5/17/2011 22:00	9.24	84.4
5/17/2011 23:00	8.71	89.9
5/18/2011 0:00	8.79	98
5/18/2011 1:00	7.04	123.4
5/18/2011 2:00	6.19	123.2
5/18/2011 3:00	5.97	125.7
5/18/2011 4:00	4.14	113.5
5/18/2011 5:00	5.96	111.8
5/18/2011 6:00	8.35	123.3
5/18/2011 7:00	8.23	124.6
5/18/2011 8:00	7.99	115.4
5/18/2011 9:00	8.61	103.5
5/18/2011 10:00	8.88	109.4
5/18/2011 11:00	9.32	106.6
5/18/2011 12:00	9.69	110.5
5/18/2011 13:00	9.06	110.9
5/18/2011 14:00	8.40	106.4
5/18/2011 15:00	8.28	102.6
5/18/2011 16:00	8.11	95.8
5/18/2011 17:00	8.83	91.3
5/18/2011 18:00	8.69	95.5
5/18/2011 19:00	8.92	95.7
5/18/2011 20:00	9.56	90
5/18/2011 21:00	8.44	94.9
5/18/2011 22:00	8.10	106.2
5/18/2011 23:00	6.43	116.8
5/19/2011 0:00	5.11	107.1
5/19/2011 1:00	5.24	114.1
5/19/2011 2:00	5.03	118.3
5/19/2011 3:00	4.07	122
5/19/2011 4:00	3.98	125.3
5/19/2011 5:00	3.70	130.3
5/19/2011 6:00	4.00	136
5/19/2011 7:00	4.54	123.6
5/19/2011 8:00	5.29	105.9
5/19/2011 9:00	5.77	110.3
5/19/2011 10:00	5.77	109.6
5/19/2011 11:00	6.09	105
5/19/2011 12:00	7.05	108.5
5/19/2011 13:00	7.49	109.7
5/19/2011 14:00	7.94	109.8
5/19/2011 15:00	7.43	110.2
5/19/2011 16:00	6.97	108.8
5/19/2011 17:00	7.51	104.8
5/19/2011 18:00	7.44	111.6
5/19/2011 19:00	7.82	110.7
5/19/2011 20:00	8.22	116.4
5/19/2011 21:00	8.21	118.4
5/19/2011 22:00	7.05	126.2
5/19/2011 23:00	7.05	128.2
5/20/2011 0:00	5.46	130.5
5/20/2011 1:00	6.81	152.1
5/20/2011 2:00	3.59	124.4
5/20/2011 3:00	3.70	140.7
5/20/2011 4:00	5.17	153.5
5/20/2011 5:00	6.17	160.8

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
5/20/2011 6:00	3.93	137.9
5/20/2011 7:00	3.54	111.4
5/20/2011 8:00	4.46	124.8
5/20/2011 9:00	5.11	127
5/20/2011 10:00	5.22	116.6
5/20/2011 11:00	5.17	125
5/20/2011 12:00	5.26	115.6
5/20/2011 13:00	4.96	117.3
5/20/2011 14:00	5.05	121.4
5/20/2011 15:00	5.63	119.2
5/20/2011 16:00	6.35	121
5/20/2011 17:00	5.08	115
5/20/2011 18:00	4.98	110
5/20/2011 19:00	4.61	97.6
5/20/2011 20:00	5.61	105
5/20/2011 21:00	5.93	107.4
5/20/2011 22:00	4.86	97.4
5/20/2011 23:00	4.41	83.7
5/21/2011 0:00	3.78	96.3
5/21/2011 1:00	3.93	92.3
5/21/2011 2:00	3.37	91.6
5/21/2011 3:00	6.27	85.5
5/21/2011 4:00	6.68	94.5
5/21/2011 5:00	5.98	101.4
5/21/2011 6:00	5.97	88.7
5/21/2011 7:00	4.70	81.9
5/21/2011 8:00	3.05	73.1
5/21/2011 9:00	3.63	64.06
5/21/2011 10:00	5.35	27.93
5/21/2011 11:00	6.15	24.47
5/21/2011 12:00	6.84	63.69
5/21/2011 13:00	6.60	64.77
5/21/2011 14:00	5.92	66.06
5/21/2011 15:00	4.24	61.77
5/21/2011 16:00	5.35	64.79
5/21/2011 17:00	4.55	64.79
5/21/2011 18:00	3.43	28.56
5/21/2011 19:00	5.10	10.65
5/21/2011 20:00	4.62	12.87
5/21/2011 21:00	3.71	359.7
5/21/2011 22:00	3.05	342.7
5/21/2011 23:00	2.61	330.6
5/22/2011 0:00	1.72	312.4
5/22/2011 1:00	1.95	323.1
5/22/2011 2:00	1.13	290.8
5/22/2011 3:00	1.15	269.3
5/22/2011 4:00	1.89	260
5/22/2011 5:00	3.26	263.4
5/22/2011 6:00	4.86	269.2
5/22/2011 7:00	4.68	265.6
5/22/2011 8:00	6.67	264.2
5/22/2011 9:00	8.50	258.4
5/22/2011 10:00	8.89	253.3
5/22/2011 11:00	8.38	250.2
5/22/2011 12:00	9.32	256.3
5/22/2011 13:00	9.71	255
5/22/2011 14:00	8.73	264.3
5/22/2011 15:00	8.80	268.7
5/22/2011 16:00	9.27	268.6
5/22/2011 17:00	8.25	269.3
5/22/2011 18:00	8.53	278.8
5/22/2011 19:00	8.33	279.4
5/22/2011 20:00	8.89	279.5
5/22/2011 21:00	8.68	290
5/22/2011 22:00	8.23	284.4
5/22/2011 23:00	8.51	288.8
5/23/2011 0:00	8.86	299.3
5/23/2011 1:00	7.22	297
5/23/2011 2:00	7.20	303.6
5/23/2011 3:00	6.06	294.6

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
5/23/2011 4:00	5.33	288.8
5/23/2011 5:00	5.12	309.1
5/23/2011 6:00	7.44	329.3
5/23/2011 7:00	7.12	327.4
5/23/2011 8:00	7.10	315.3
5/23/2011 9:00	7.41	317.8
5/23/2011 10:00	6.38	330.3
5/23/2011 11:00	4.82	328.4
5/23/2011 12:00	4.84	346.2
5/23/2011 13:00	5.67	339.1
5/23/2011 14:00	4.60	342.3
5/23/2011 15:00	4.68	344
5/23/2011 16:00	3.55	322
5/23/2011 17:00	3.92	319.8
5/23/2011 18:00	4.42	315.6
5/23/2011 19:00	5.33	311.6
5/23/2011 20:00	5.78	322.3
5/23/2011 21:00	4.92	320.6
5/23/2011 22:00	5.12	325
5/23/2011 23:00	4.00	307.7
5/24/2011 0:00	3.54	295.6
5/24/2011 1:00	4.13	270.6
5/24/2011 2:00	4.30	259.9
5/24/2011 3:00	4.91	267.4
5/24/2011 4:00	5.64	260
5/24/2011 5:00	5.68	274
5/24/2011 6:00	6.29	262.1
5/24/2011 7:00	5.11	270.7
5/24/2011 8:00	5.25	276.3
5/24/2011 9:00	5.98	281.4
5/24/2011 10:00	5.36	280.9
5/24/2011 11:00	6.76	274.3
5/24/2011 12:00	6.85	275.3
5/24/2011 13:00	6.66	280
5/24/2011 14:00	7.45	300.9
5/24/2011 15:00	8.48	282.6
5/24/2011 16:00	8.98	288.4
5/24/2011 17:00	7.89	274.9
5/24/2011 18:00	6.60	272.1
5/24/2011 19:00	7.12	289.2
5/24/2011 20:00	7.39	282.6
5/24/2011 21:00	9.29	283
5/24/2011 22:00	9.66	281.4
5/24/2011 23:00	7.69	273.6
5/25/2011 0:00	6.96	272.8
5/25/2011 1:00	6.33	264.6
5/25/2011 2:00	7.54	255.1
5/25/2011 3:00	6.82	260.6
5/25/2011 4:00	6.84	272.3
5/25/2011 5:00	6.96	263
5/25/2011 6:00	6.07	261.9
5/25/2011 7:00	6.09	261.4
5/25/2011 8:00	6.27	262.8
5/25/2011 9:00	7.66	257.5
5/25/2011 10:00	6.28	264
5/25/2011 11:00	5.14	266.1
5/25/2011 12:00	5.74	273.3
5/25/2011 13:00	6.40	275.8
5/25/2011 14:00	6.70	282.9
5/25/2011 15:00	7.37	284.6
5/25/2011 16:00	7.85	302.1
5/25/2011 17:00	7.84	304.8
5/25/2011 18:00	7.74	309
5/25/2011 19:00	6.94	313.3
5/25/2011 20:00	7.20	323.6
5/25/2011 21:00	5.25	326.3
5/25/2011 22:00	3.83	332.8
5/25/2011 23:00	4.90	349.8
5/26/2011 0:00	4.62	350.3
5/26/2011 1:00	4.84	5.633

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
5/26/2011 2:00	4.08	8.88
5/26/2011 3:00	4.07	6.047
5/26/2011 4:00	3.80	8.37
5/26/2011 5:00	3.50	3.355
5/26/2011 6:00	3.53	8.37
5/26/2011 7:00	3.53	12.92
5/26/2011 8:00	3.23	0.122
5/26/2011 9:00	3.59	0.181
5/26/2011 10:00	3.09	355.8
5/26/2011 11:00	3.20	354
5/26/2011 12:00	3.13	358.6
5/26/2011 13:00	2.60	344.6
5/26/2011 14:00	3.57	337.2
5/26/2011 15:00	3.72	316.3
5/26/2011 16:00	4.21	325.5
5/26/2011 17:00	4.33	322.1
5/26/2011 18:00	4.35	312.5
5/26/2011 19:00	4.48	315.1
5/26/2011 20:00	4.23	308.3
5/26/2011 21:00	4.36	312.8
5/26/2011 22:00	4.01	310.1
5/26/2011 23:00	4.62	299.6
5/27/2011 0:00	4.69	290.8
5/27/2011 1:00	6.04	294
5/27/2011 2:00	5.57	311.7
5/27/2011 3:00	4.17	309.3
5/27/2011 4:00	2.86	307.1
5/27/2011 5:00	3.11	311.3
5/27/2011 6:00	3.13	315.6
5/27/2011 7:00	3.17	295
5/27/2011 8:00	3.36	280.2
5/27/2011 9:00	3.58	277.6
5/27/2011 10:00	4.67	277.4
5/27/2011 11:00	5.00	280.8
5/27/2011 12:00	5.00	278.3
5/27/2011 13:00	5.05	273
5/27/2011 14:00	5.42	277.2
5/27/2011 15:00	5.49	275.1
5/27/2011 16:00	4.97	271.4
5/27/2011 17:00	4.47	268.3
5/27/2011 18:00	4.58	278.1
5/27/2011 19:00	5.02	278.2
5/27/2011 20:00	3.80	272.3
5/27/2011 21:00	4.06	267.7
5/27/2011 22:00	4.27	273.3
5/27/2011 23:00	4.27	270.7
5/28/2011 0:00	3.35	268.2
5/28/2011 1:00	4.69	262.8
5/28/2011 2:00	3.78	268.9
5/28/2011 3:00	3.65	264
5/28/2011 4:00	3.08	264
5/28/2011 5:00	3.54	264.6
5/28/2011 6:00	3.43	261.8
5/28/2011 7:00	2.93	265.7
5/28/2011 8:00	2.32	264
5/28/2011 9:00	2.71	259
5/28/2011 10:00	3.27	261.8
5/28/2011 11:00	3.12	261.6
5/28/2011 12:00	3.35	262.9
5/28/2011 13:00	3.89	264.4
5/28/2011 14:00	4.09	261.5
5/28/2011 15:00	3.76	270.7
5/28/2011 16:00	3.35	278.2
5/28/2011 17:00	2.72	297.5
5/28/2011 18:00	2.79	326.9
5/28/2011 19:00	3.16	350.6
5/28/2011 20:00	4.35	33.08
5/28/2011 21:00	3.74	38.84
5/28/2011 22:00	2.33	51.21
5/28/2011 23:00	2.75	88.1

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
5/29/2011 0:00	3.79	98
5/29/2011 1:00	3.65	92.7
5/29/2011 2:00	3.17	125.5
5/29/2011 3:00	3.91	110
5/29/2011 4:00	3.71	106.7
5/29/2011 5:00	4.70	120.7
5/29/2011 6:00	5.13	137.8
5/29/2011 7:00	5.88	144.6
5/29/2011 8:00	6.05	139.8
5/29/2011 9:00	6.14	126.4
5/29/2011 10:00	6.33	133.5
5/29/2011 11:00	6.53	130.3
5/29/2011 12:00	6.14	131.1
5/29/2011 13:00	5.98	121.8
5/29/2011 14:00	5.89	121.4
5/29/2011 15:00	5.85	118.4
5/29/2011 16:00	5.28	122
5/29/2011 17:00	4.70	112.7
5/29/2011 18:00	4.93	108.9
5/29/2011 19:00	5.34	111.8
5/29/2011 20:00	6.03	115.7
5/29/2011 21:00	5.92	122.1
5/29/2011 22:00	5.12	123.7
5/29/2011 23:00	5.31	122.1
5/30/2011 0:00	4.65	135.2
5/30/2011 1:00	4.02	139
5/30/2011 2:00	3.69	142.4
5/30/2011 3:00	3.08	145.7
5/30/2011 4:00	2.84	149.2
5/30/2011 5:00	2.08	141.2
5/30/2011 6:00	1.37	149.1
5/30/2011 7:00	0.71	164.3
5/30/2011 8:00	0.76	151.1
5/30/2011 9:00	0.37	234.2
5/30/2011 10:00	2.14	260.4
5/30/2011 11:00	2.83	256.9
5/30/2011 12:00	3.36	266.2
5/30/2011 13:00	6.33	256.7
5/30/2011 14:00	6.56	257
5/30/2011 15:00	6.28	255.3
5/30/2011 16:00	4.11	260.7
5/30/2011 17:00	7.18	273.1
5/30/2011 18:00	9.82	266.3
5/30/2011 19:00	11.15	266.2
5/30/2011 20:00	11.88	266.2
5/30/2011 21:00	11.70	269.4
5/30/2011 22:00	11.61	267.6
5/30/2011 23:00	10.11	267
5/31/2011 0:00	10.16	269.5
5/31/2011 1:00	7.07	299.3
5/31/2011 2:00	8.76	293.6
5/31/2011 3:00	7.14	286.8
5/31/2011 4:00	7.26	286.5
5/31/2011 5:00	6.28	291.5
5/31/2011 6:00	8.46	281.1
5/31/2011 7:00	7.46	280.4
5/31/2011 8:00	6.42	280.1
5/31/2011 9:00	5.74	281
5/31/2011 10:00	5.02	288.2
5/31/2011 11:00	5.14	276.2
5/31/2011 12:00	5.02	271.2
5/31/2011 13:00	5.96	267.5
5/31/2011 14:00	5.95	260.1
5/31/2011 15:00	6.73	270
5/31/2011 16:00	5.77	276.5
5/31/2011 17:00	3.14	299.8
5/31/2011 18:00	1.83	20.01
5/31/2011 19:00	2.00	272.5
5/31/2011 20:00	1.62	246.3
5/31/2011 21:00	1.84	201.5

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
5/31/2011 22:00	0.98	149.5
5/31/2011 23:00	2.67	160
6/1/2011 0:00	4.88	176.4
6/1/2011 1:00	6.35	182.9
6/1/2011 2:00	5.33	198
6/1/2011 3:00	3.05	154.3
6/1/2011 4:00	1.69	140.4
6/1/2011 5:00	3.00	137.4
6/1/2011 6:00	3.71	121.1
6/1/2011 7:00	4.55	110.9
6/1/2011 8:00	7.63	113.5
6/1/2011 9:00	10.98	121.9
6/1/2011 10:00	11.14	127.7
6/1/2011 11:00	9.02	158.3
6/1/2011 12:00	10.98	196.5
6/1/2011 13:00	14.99	223.1
6/1/2011 14:00	9.47	251.2
6/1/2011 15:00	8.94	268.8
6/1/2011 16:00	17.54	350.2
6/1/2011 17:00	17.14	341.4
6/1/2011 18:00	16.25	328.1
6/1/2011 19:00	15.80	326.3
6/1/2011 20:00	15.17	317.4
6/1/2011 21:00	12.77	314.3
6/1/2011 22:00	10.61	303.8
6/1/2011 23:00	10.89	284.4
6/2/2011 0:00	10.02	279.5
6/2/2011 1:00	11.47	284.5
6/2/2011 2:00	11.09	295.3
6/2/2011 3:00	10.32	294.5
6/2/2011 4:00	9.77	283.4
6/2/2011 5:00	9.30	277.8
6/2/2011 6:00	9.99	277.9
6/2/2011 7:00	10.04	281.2
6/2/2011 8:00	10.42	283.7
6/2/2011 9:00	9.65	279.2
6/2/2011 10:00	10.65	273.1
6/2/2011 11:00	11.42	271.9
6/2/2011 12:00	11.39	270.1
6/2/2011 13:00	11.21	272.3
6/2/2011 14:00	11.44	279.5
6/2/2011 15:00	12.69	282
6/2/2011 16:00	12.43	284.3
6/2/2011 17:00	12.10	287.5
6/2/2011 18:00	11.70	288.7
6/2/2011 19:00	11.32	288.3
6/2/2011 20:00	11.15	287.4
6/2/2011 21:00	10.49	292.6
6/2/2011 22:00	9.67	285.2
6/2/2011 23:00	9.12	296.3
6/3/2011 0:00	7.86	287.4
6/3/2011 1:00	7.55	284.2
6/3/2011 2:00	8.25	290.7
6/3/2011 3:00	7.01	300.7
6/3/2011 4:00	5.55	288.2
6/3/2011 5:00	6.09	270.5
6/3/2011 6:00	7.23	268.4
6/3/2011 7:00	7.36	272.8
6/3/2011 8:00	8.24	283.7
6/3/2011 9:00	7.03	275.2
6/3/2011 10:00	7.54	267.2
6/3/2011 11:00	7.73	265.3
6/3/2011 12:00	9.06	264.9
6/3/2011 13:00	10.35	271
6/3/2011 14:00	10.45	272.8
6/3/2011 15:00	9.30	271
6/3/2011 16:00	8.31	269.7
6/3/2011 17:00	7.96	270.1
6/3/2011 18:00	6.79	268.5
6/3/2011 19:00	7.34	277.7

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
6/3/2011 20:00	7.17	287.4
6/3/2011 21:00	6.05	288.4
6/3/2011 22:00	5.21	294.1
6/3/2011 23:00	3.08	294.3
6/4/2011 0:00	4.05	267.1
6/4/2011 1:00	4.27	270.3
6/4/2011 2:00	5.51	269
6/4/2011 3:00	5.18	268.3
6/4/2011 4:00	5.28	268.3
6/4/2011 5:00	5.14	268.3
6/4/2011 6:00	4.55	272.9
6/4/2011 7:00	3.75	277.3
6/4/2011 8:00	4.75	284.4
6/4/2011 9:00	5.33	284.4
6/4/2011 10:00	4.12	307.9
6/4/2011 11:00	4.72	316
6/4/2011 12:00	6.37	314
6/4/2011 13:00	7.63	311.2
6/4/2011 14:00	8.38	308.6
6/4/2011 15:00	7.43	314.8
6/4/2011 16:00	6.81	315.5
6/4/2011 17:00	6.69	320.3
6/4/2011 18:00	6.94	312.5
6/4/2011 19:00	7.02	318.6
6/4/2011 20:00	7.59	317.8
6/4/2011 21:00	7.76	314.3
6/4/2011 22:00	9.32	327.5
6/4/2011 23:00	10.12	325.2
6/5/2011 0:00	9.30	330.4
6/5/2011 1:00	10.02	330.9
6/5/2011 2:00	10.91	331.7
6/5/2011 3:00	10.28	333.3
6/5/2011 4:00	10.92	326.9
6/5/2011 5:00	11.16	326.9
6/5/2011 6:00	10.77	327.3
6/5/2011 7:00	12.08	329.1
6/5/2011 8:00	11.96	321.7
6/5/2011 9:00	13.13	319.5
6/5/2011 10:00	12.26	315.6
6/5/2011 11:00	13.04	318.3
6/5/2011 12:00	12.22	317.9
6/5/2011 13:00	13.23	318.6
6/5/2011 14:00	13.21	321.4
6/5/2011 15:00	13.13	327.8
6/5/2011 16:00	13.02	327.3
6/5/2011 17:00	12.09	339
6/5/2011 18:00	7.18	351.1
6/5/2011 19:00	2.63	348
6/5/2011 20:00	2.13	349.1
6/5/2011 21:00	1.90	351
6/5/2011 22:00	1.90	352.7
6/5/2011 23:00	1.82	350.3
6/6/2011 0:00	1.78	346.3
6/6/2011 1:00	1.79	346.1
6/6/2011 2:00	4.31	350.3
6/6/2011 3:00	7.49	353
6/6/2011 4:00	6.05	350.4
6/6/2011 5:00	5.58	350.6
6/6/2011 6:00	5.10	353.8
6/6/2011 7:00	5.16	351.1
6/6/2011 8:00	4.99	348.8
6/6/2011 9:00	4.91	350.1
6/6/2011 10:00	4.76	350.8
6/6/2011 11:00	4.38	346.5
6/6/2011 12:00	4.52	332.7
6/6/2011 13:00	4.55	334
6/6/2011 14:00	4.08	330.9
6/6/2011 15:00	4.34	329.9
6/6/2011 16:00	6.47	333.6
6/6/2011 17:00	6.91	330.2

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
6/6/2011 18:00	6.95	324.6
6/6/2011 19:00	7.37	325.8
6/6/2011 20:00	7.75	328
6/6/2011 21:00	8.09	322.9
6/6/2011 22:00	9.51	321.4
6/6/2011 23:00	9.07	318.5
6/7/2011 0:00	7.85	306.9
6/7/2011 1:00	8.16	300.2
6/7/2011 2:00	8.62	299
6/7/2011 3:00	9.78	293.5
6/7/2011 4:00	10.22	292.5
6/7/2011 5:00	9.95	298.9
6/7/2011 6:00	9.01	305.8
6/7/2011 7:00	8.09	314.1
6/7/2011 8:00	7.92	314.9
6/7/2011 9:00	7.30	331.3
6/7/2011 10:00	6.45	334
6/7/2011 11:00	5.93	334.3
6/7/2011 12:00	6.67	354
6/7/2011 13:00	7.76	319.5
6/7/2011 14:00	8.27	327.3
6/7/2011 15:00	9.06	327.5
6/7/2011 16:00	8.10	319.6
6/7/2011 17:00	7.89	311.2
6/7/2011 18:00	7.83	308.2
6/7/2011 19:00	7.52	298.1
6/7/2011 20:00	7.07	295.6
6/7/2011 21:00	6.38	287.9
6/7/2011 22:00	6.79	280
6/7/2011 23:00	7.36	277.9
6/8/2011 0:00	7.67	280
6/8/2011 1:00	7.49	268.5
6/8/2011 2:00	7.62	272
6/8/2011 3:00	6.65	271.9
6/8/2011 4:00	6.10	276.8
6/8/2011 5:00	7.66	282.4
6/8/2011 6:00	8.54	282.8
6/8/2011 7:00	8.52	271.9
6/8/2011 8:00	8.83	269.1
6/8/2011 9:00	7.87	272.3
6/8/2011 10:00	8.36	278.5
6/8/2011 11:00	8.37	280.2
6/8/2011 12:00	8.09	282
6/8/2011 13:00	7.46	282
6/8/2011 14:00	7.09	276.8
6/8/2011 15:00	7.00	281.9
6/8/2011 16:00	7.72	288.2
6/8/2011 17:00	7.21	285
6/8/2011 18:00	7.67	286.6
6/8/2011 19:00	6.92	294.8
6/8/2011 20:00	6.84	291.9
6/8/2011 21:00	7.77	284.1
6/8/2011 22:00	6.48	273.1
6/8/2011 23:00	6.35	269.6
6/9/2011 0:00	7.50	266.4
6/9/2011 1:00	8.25	263.4
6/9/2011 2:00	9.75	269
6/9/2011 3:00	11.15	269.3
6/9/2011 4:00	10.78	269.1
6/9/2011 5:00	11.20	268.6
6/9/2011 6:00	10.92	271.4
6/9/2011 7:00	11.10	271.8
6/9/2011 8:00	10.78	271.4
6/9/2011 9:00	11.47	275.1
6/9/2011 10:00	11.36	273.5
6/9/2011 11:00	12.17	277
6/9/2011 12:00	12.55	277.9
6/9/2011 13:00	12.23	276.4
6/9/2011 14:00	11.67	282.6
6/9/2011 15:00	10.12	283.2

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
6/9/2011 16:00	7.92	286
6/9/2011 17:00	6.21	300.8
6/9/2011 18:00	7.01	307.3
6/9/2011 19:00	6.92	299.6
6/9/2011 20:00	7.42	294.7
6/9/2011 21:00	6.48	290.7
6/9/2011 22:00	6.80	294.3
6/9/2011 23:00	6.69	294.1
6/10/2011 0:00	7.93	291.5
6/10/2011 1:00	8.01	297.8
6/10/2011 2:00	8.05	293.6
6/10/2011 3:00	8.15	289.7
6/10/2011 4:00	8.09	289.9
6/10/2011 5:00	8.56	286.3
6/10/2011 6:00	9.16	285
6/10/2011 7:00	8.84	285.7
6/10/2011 8:00	9.48	285.1
6/10/2011 9:00	9.61	272.9
6/10/2011 10:00	10.96	270.8
6/10/2011 11:00	11.46	270.7
6/10/2011 12:00	10.99	273.2
6/10/2011 13:00	9.96	271.5
6/10/2011 14:00	10.45	269.7
6/10/2011 15:00	11.28	271.6
6/10/2011 16:00	12.42	270
6/10/2011 17:00	12.14	268.9
6/10/2011 18:00	11.18	270.7
6/10/2011 19:00	11.93	271
6/10/2011 20:00	11.76	271.7
6/10/2011 21:00	10.81	273
6/10/2011 22:00	9.83	266.4
6/10/2011 23:00	11.77	256.7
6/11/2011 0:00	11.50	256.1
6/11/2011 1:00	12.88	251.4
6/11/2011 2:00	16.07	248.3
6/11/2011 3:00	14.95	251.4
6/11/2011 4:00	14.72	250.1
6/11/2011 5:00	15.91	245.8
6/11/2011 6:00	12.65	248.9
6/11/2011 7:00	12.65	248.6
6/11/2011 8:00	13.22	246.3
6/11/2011 9:00	12.41	239.5
6/11/2011 10:00	9.78	231.2
6/11/2011 11:00	10.78	231.8
6/11/2011 12:00	11.03	234.4
6/11/2011 13:00	8.74	234.7
6/11/2011 14:00	7.91	228.1
6/11/2011 15:00	7.32	205
6/11/2011 16:00	6.88	186.9
6/11/2011 17:00	7.49	172.6
6/11/2011 18:00	7.20	171.4
6/11/2011 19:00	6.03	174.9
6/11/2011 20:00	5.52	163.2
6/11/2011 21:00	5.23	168.4
6/11/2011 22:00	5.40	165.6
6/11/2011 23:00	7.13	169.1
6/12/2011 0:00	7.15	173.7
6/12/2011 1:00	7.36	189.5
6/12/2011 2:00	6.25	196.4
6/12/2011 3:00	6.33	180.2
6/12/2011 4:00	6.46	189.9
6/12/2011 5:00	4.96	169
6/12/2011 6:00	5.35	192.2
6/12/2011 7:00	3.86	202.4
6/12/2011 8:00	2.61	246.3
6/12/2011 9:00	1.22	282.9
6/12/2011 10:00	1.57	277.8
6/12/2011 11:00	2.16	337.8
6/12/2011 12:00	2.58	352.4
6/12/2011 13:00	2.16	347.8

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
6/12/2011 14:00	2.53	357.5
6/12/2011 15:00	2.83	353.1
6/12/2011 16:00	3.70	359.1
6/12/2011 17:00	1.90	357
6/12/2011 18:00	3.24	10.11
6/12/2011 19:00	2.68	24.92
6/12/2011 20:00	2.81	83
6/12/2011 21:00	4.59	106.3
6/12/2011 22:00	3.75	125.2
6/12/2011 23:00	7.05	173.8
6/13/2011 0:00	8.48	175.5
6/13/2011 1:00	7.97	173.2
6/13/2011 2:00	4.95	147.9
6/13/2011 3:00	5.07	153.2
6/13/2011 4:00	4.21	144
6/13/2011 5:00	2.81	123.3
6/13/2011 6:00	4.48	134
6/13/2011 7:00	4.56	133.1
6/13/2011 8:00	5.55	127.9
6/13/2011 9:00	2.61	129.9
6/13/2011 10:00	4.64	118.9
6/13/2011 11:00	8.02	126.8
6/13/2011 12:00	8.14	134.5
6/13/2011 13:00	9.19	131.1
6/13/2011 14:00	9.27	130.9
6/13/2011 15:00	9.61	129
6/13/2011 16:00	9.87	133
6/13/2011 17:00	10.16	130.2
6/13/2011 18:00	10.49	129.9
6/13/2011 19:00	9.42	122.6
6/13/2011 20:00	10.69	125.6
6/13/2011 21:00	11.05	126.1
6/13/2011 22:00	10.07	115.7
6/13/2011 23:00	9.88	108.6
6/14/2011 0:00	8.11	114.9
6/14/2011 1:00	8.10	112.2
6/14/2011 2:00	7.57	114.8
6/14/2011 3:00	8.18	110.6
6/14/2011 4:00	4.83	122.1
6/14/2011 5:00	7.00	104.8
6/14/2011 6:00	8.30	100.5
6/14/2011 7:00	6.54	87.4
6/14/2011 8:00	8.13	84.5
6/14/2011 9:00	7.77	74.12
6/14/2011 10:00	8.89	79.92
6/14/2011 11:00	7.26	77.97
6/14/2011 12:00	7.43	67.39
6/14/2011 13:00	7.00	65.36
6/14/2011 14:00	5.96	59.71
6/14/2011 15:00	5.06	18.74
6/14/2011 16:00	6.22	10.63
6/14/2011 17:00	5.53	15.54
6/14/2011 18:00	5.19	12.16
6/14/2011 19:00	4.72	2.422
6/14/2011 20:00	5.73	0.64
6/14/2011 21:00	5.61	359.7
6/14/2011 22:00	5.59	3.075
6/14/2011 23:00	5.08	1.823
6/15/2011 0:00	5.11	0.928
6/15/2011 1:00	4.89	347.7
6/15/2011 2:00	4.83	333.9
6/15/2011 3:00	5.17	332.7
6/15/2011 4:00	4.95	332
6/15/2011 5:00	4.64	329.5
6/15/2011 6:00	4.14	329.2
6/15/2011 7:00	3.74	323.7
6/15/2011 8:00	3.06	326.9
6/15/2011 9:00	3.08	319.6
6/15/2011 10:00	2.56	321.2
6/15/2011 11:00	2.42	317.9

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
6/15/2011 12:00	2.90	307.1
6/15/2011 13:00	3.13	312
6/15/2011 14:00	2.60	306.3
6/15/2011 15:00	3.01	308
6/15/2011 16:00	3.27	315.4
6/15/2011 17:00	3.03	317.6
6/15/2011 18:00	3.02	323.7
6/15/2011 19:00	2.75	307.5
6/15/2011 20:00	2.98	314.1
6/15/2011 21:00	3.32	287
6/15/2011 22:00	3.75	276.3
6/15/2011 23:00	3.38	308.5
6/16/2011 0:00	2.94	310.5
6/16/2011 1:00	2.40	307.9
6/16/2011 2:00	2.09	302.1
6/16/2011 3:00	1.84	275.9
6/16/2011 4:00	2.79	298.1
6/16/2011 5:00	2.32	282.7
6/16/2011 6:00	2.94	302.6
6/16/2011 7:00	2.97	296.1
6/16/2011 8:00	3.33	278.4
6/16/2011 9:00	3.38	257.1
6/16/2011 10:00	3.49	257.8
6/16/2011 11:00	3.55	258.1
6/16/2011 12:00	3.03	275.6
6/16/2011 13:00	2.61	290.1
6/16/2011 14:00	3.01	258.6
6/16/2011 15:00	1.90	313.7
6/16/2011 16:00	2.29	311.4
6/16/2011 17:00	2.98	350.4
6/16/2011 18:00	3.59	352
6/16/2011 19:00	3.36	346.5
6/16/2011 20:00	3.64	344.8
6/16/2011 21:00	4.81	13.59
6/16/2011 22:00	4.27	29.57
6/16/2011 23:00	3.01	74.63
6/17/2011 0:00	3.13	88.7
6/17/2011 1:00	4.49	101.5
6/17/2011 2:00	3.19	91.1
6/17/2011 3:00	3.42	82.7
6/17/2011 4:00	4.47	93.3
6/17/2011 5:00	4.12	84.8
6/17/2011 6:00	5.27	85
6/17/2011 7:00	4.98	82.1
6/17/2011 8:00	5.61	85.7
6/17/2011 9:00	7.21	86.4
6/17/2011 10:00	8.54	88.6
6/17/2011 11:00	8.92	83.8
6/17/2011 12:00	9.23	81.2
6/17/2011 13:00	10.14	83.4
6/17/2011 14:00	9.32	81.4
6/17/2011 15:00	8.77	77.7
6/17/2011 16:00	9.43	80.8
6/17/2011 17:00	9.85	80.6
6/17/2011 18:00	10.58	82.7
6/17/2011 19:00	11.18	84.1
6/17/2011 20:00	10.08	77.8
6/17/2011 21:00	8.86	81.3
6/17/2011 22:00	7.95	85.9
6/17/2011 23:00	9.37	98.1
6/18/2011 0:00	9.79	104.8
6/18/2011 1:00	8.74	102.7
6/18/2011 2:00	7.40	106.8
6/18/2011 3:00	8.08	107.8
6/18/2011 4:00	8.40	105.1
6/18/2011 5:00	8.13	100.7
6/18/2011 6:00	7.62	104
6/18/2011 7:00	7.64	102.6
6/18/2011 8:00	8.07	107.3
6/18/2011 9:00	8.34	103.3

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
6/18/2011 10:00	8.80	102.2
6/18/2011 11:00	9.45	96.6
6/18/2011 12:00	10.63	87.3
6/18/2011 13:00	10.80	104.4
6/18/2011 14:00	10.46	103.4
6/18/2011 15:00	10.32	88.3
6/18/2011 16:00	10.27	87.6
6/18/2011 17:00	10.01	98.6
6/18/2011 18:00	9.98	92.7
6/18/2011 19:00	10.26	90.7
6/18/2011 20:00	11.02	87.1
6/18/2011 21:00	9.39	93.4
6/18/2011 22:00	9.15	96
6/18/2011 23:00	10.00	97.7
6/19/2011 0:00	7.32	119.8
6/19/2011 1:00	6.13	138
6/19/2011 2:00	7.72	129
6/19/2011 3:00	8.06	114.9
6/19/2011 4:00	10.14	109.3
6/19/2011 5:00	11.09	106.8
6/19/2011 6:00	9.40	110.4
6/19/2011 7:00	7.58	112.1
6/19/2011 8:00	8.49	105.3
6/19/2011 9:00	7.36	97.4
6/19/2011 10:00	7.11	96.3
6/19/2011 11:00	7.62	104.2
6/19/2011 12:00	10.23	105.4
6/19/2011 13:00	12.13	103.3
6/19/2011 14:00	11.83	103.5
6/19/2011 15:00	10.96	111.9
6/19/2011 16:00	10.20	123.4
6/19/2011 17:00	8.60	113.9
6/19/2011 18:00	7.70	104.9
6/19/2011 19:00	7.31	107.6
6/19/2011 20:00	6.89	111.6
6/19/2011 21:00	6.34	119.3
6/19/2011 22:00	6.12	124.6
6/19/2011 23:00	6.18	120.5
6/20/2011 0:00	4.17	130.3
6/20/2011 1:00	7.18	120.3
6/20/2011 2:00	4.98	117.7
6/20/2011 3:00	5.40	134
6/20/2011 4:00	5.08	132.4
6/20/2011 5:00	5.50	131
6/20/2011 6:00	5.11	137.2
6/20/2011 7:00	5.69	141.9
6/20/2011 8:00	4.25	152.9
6/20/2011 9:00	2.94	121.8
6/20/2011 10:00	1.49	177.7
6/20/2011 11:00	5.09	256.3
6/20/2011 12:00	7.48	253.6
6/20/2011 13:00	7.93	254.6
6/20/2011 14:00	8.65	254.9
6/20/2011 15:00	8.77	251.4
6/20/2011 16:00	8.64	251.1
6/20/2011 17:00	6.46	257.9
6/20/2011 18:00	4.17	289.2
6/20/2011 19:00	6.22	305.2
6/20/2011 20:00	7.55	311.8
6/20/2011 21:00	6.36	318.5
6/20/2011 22:00	8.14	316.4
6/20/2011 23:00	6.32	310.2
6/21/2011 0:00	5.67	304.7
6/21/2011 1:00	5.68	299.3
6/21/2011 2:00	6.45	292.7
6/21/2011 3:00	6.74	295.8
6/21/2011 4:00	5.55	315.4
6/21/2011 5:00	5.54	331.3
6/21/2011 6:00	5.34	342.5
6/21/2011 7:00	6.35	340

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
6/21/2011 8:00	4.69	325.1
6/21/2011 9:00	4.94	320.1
6/21/2011 10:00	5.07	318.1
6/21/2011 11:00	6.16	325.6
6/21/2011 12:00	5.73	333.2
6/21/2011 13:00	5.66	345.2
6/21/2011 14:00	4.67	348.2
6/21/2011 15:00	5.76	356.7
6/21/2011 16:00	5.57	352.9
6/21/2011 17:00	5.73	357.7
6/21/2011 18:00	5.63	2.541
6/21/2011 19:00	5.58	7.734
6/21/2011 20:00	5.65	18.35
6/21/2011 21:00	5.85	12.24
6/21/2011 22:00	6.02	2.408
6/21/2011 23:00	4.99	359.4
6/22/2011 0:00	4.84	359.3
6/22/2011 1:00	5.09	9.36
6/22/2011 2:00	5.08	1.43
6/22/2011 3:00	5.37	353.9
6/22/2011 4:00	5.19	348.4
6/22/2011 5:00	4.92	347.1
6/22/2011 6:00	4.55	350.4
6/22/2011 7:00	4.72	356.8
6/22/2011 8:00	4.14	12.12
6/22/2011 9:00	3.59	1.048
6/22/2011 10:00	4.51	355.6
6/22/2011 11:00	5.19	0.994
6/22/2011 12:00	4.66	358.1
6/22/2011 13:00	4.74	355.8
6/22/2011 14:00	5.92	2.584
6/22/2011 15:00	4.95	9.92
6/22/2011 16:00	6.12	13.02
6/22/2011 17:00	6.44	22.86
6/22/2011 18:00	5.04	10.02
6/22/2011 19:00	5.81	6.094
6/22/2011 20:00	6.11	14.68
6/22/2011 21:00	5.25	12.65
6/22/2011 22:00	4.61	53.68
6/22/2011 23:00	4.41	94
6/23/2011 0:00	4.13	80.7
6/23/2011 1:00	2.90	96.8
6/23/2011 2:00	2.55	85.2
6/23/2011 3:00	1.16	111.4
6/23/2011 4:00	1.43	112.9
6/23/2011 5:00	1.89	126.5
6/23/2011 6:00	1.42	102.8
6/23/2011 7:00	3.04	119.2
6/23/2011 8:00	3.60	115.4
6/23/2011 9:00	3.23	117.8
6/23/2011 10:00	3.23	95.7
6/23/2011 11:00	2.14	72.36
6/23/2011 12:00	2.44	79.02
6/23/2011 13:00	4.45	89.1
6/23/2011 14:00	4.54	90.5
6/23/2011 15:00	3.83	111
6/23/2011 16:00	4.42	105.2
6/23/2011 17:00	4.93	115.4
6/23/2011 18:00	5.38	114.1
6/23/2011 19:00	5.88	116.7
6/23/2011 20:00	6.63	119.2
6/23/2011 21:00	6.77	121.3
6/23/2011 22:00	7.10	114.4
6/23/2011 23:00	6.06	120.6
6/24/2011 0:00	4.91	127.8
6/24/2011 1:00	5.81	140.9
6/24/2011 2:00	8.88	166.2
6/24/2011 3:00	11.07	178.1
6/24/2011 4:00	12.35	185.8
6/24/2011 5:00	10.59	183.1

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
6/24/2011 6:00	9.77	186.6
6/24/2011 7:00	9.65	194.6
6/24/2011 8:00	8.90	209.4
6/24/2011 9:00	1.58	11.14
6/24/2011 10:00	2.07	264.5
6/24/2011 11:00	3.62	290.4
6/24/2011 12:00	2.66	310
6/24/2011 13:00	5.47	313.7
6/24/2011 14:00	6.05	345.1
6/24/2011 15:00	8.92	351.2
6/24/2011 16:00	10.02	356
6/24/2011 17:00	8.78	344.5
6/24/2011 18:00	9.25	347
6/24/2011 19:00	9.48	329.6
6/24/2011 20:00	8.41	330.8
6/24/2011 21:00	7.82	342.1
6/24/2011 22:00	9.00	347
6/24/2011 23:00	7.33	325.1
6/25/2011 0:00	6.29	333.4
6/25/2011 1:00	4.65	325.1
6/25/2011 2:00	4.87	312.1
6/25/2011 3:00	5.00	314.5
6/25/2011 4:00	4.54	298
6/25/2011 5:00	5.19	302.9
6/25/2011 6:00	4.64	310.8
6/25/2011 7:00	4.93	320.1
6/25/2011 8:00	2.98	328.3
6/25/2011 9:00	2.01	334.9
6/25/2011 10:00	1.87	308.2
6/25/2011 11:00	2.34	275.3
6/25/2011 12:00	2.95	258.6
6/25/2011 13:00	3.17	278.8
6/25/2011 14:00	3.83	308.5
6/25/2011 15:00	4.39	314
6/25/2011 16:00	6.34	359.1
6/25/2011 17:00	8.17	330.8
6/25/2011 18:00	9.96	313.9
6/25/2011 19:00	7.85	303.9
6/25/2011 20:00	10.26	295.9
6/25/2011 21:00	10.20	287.2
6/25/2011 22:00	10.32	284
6/25/2011 23:00	10.92	287.1
6/26/2011 0:00	11.59	303.2
6/26/2011 1:00	12.09	309.7
6/26/2011 2:00	12.32	327.5
6/26/2011 3:00	14.21	328.6
6/26/2011 4:00	14.49	319.4
6/26/2011 5:00	14.27	312.1
6/26/2011 6:00	14.08	320.6
6/26/2011 7:00	14.28	326.1
6/26/2011 8:00	13.89	325.9
6/26/2011 9:00	13.46	326.5
6/26/2011 10:00	11.83	310.3
6/26/2011 11:00	12.59	315.2
6/26/2011 12:00	13.40	325.8
6/26/2011 13:00	14.64	323.9
6/26/2011 14:00	14.53	325.9
6/26/2011 15:00	15.68	321
6/26/2011 16:00	14.88	322.1
6/26/2011 17:00	14.24	322.3
6/26/2011 18:00	15.09	321.5
6/26/2011 19:00	12.40	312.6
6/26/2011 20:00	10.82	311.3
6/26/2011 21:00	10.84	305.2
6/26/2011 22:00	10.37	302.6
6/26/2011 23:00	9.96	297.5
6/27/2011 0:00	9.96	301.6
6/27/2011 1:00	10.50	305
6/27/2011 2:00	9.52	297.5
6/27/2011 3:00	10.14	285.5

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
6/27/2011 4:00	10.77	284.2
6/27/2011 5:00	10.40	278.3
6/27/2011 6:00	11.00	271
6/27/2011 7:00	10.65	268.8
6/27/2011 8:00	10.80	268.1
6/27/2011 9:00	11.33	269.1
6/27/2011 10:00	11.40	269.7
6/27/2011 11:00	13.24	270.4
6/27/2011 12:00	14.42	268.2
6/27/2011 13:00	13.14	271.8
6/27/2011 14:00	13.49	270.5
6/27/2011 15:00	13.30	269
6/27/2011 16:00	11.17	268.1
6/27/2011 17:00	10.22	257.2
6/27/2011 18:00	10.45	253.9
6/27/2011 19:00	13.63	239.6
6/27/2011 20:00	14.94	234
6/27/2011 21:00	13.00	230.5
6/27/2011 22:00	12.82	231
6/27/2011 23:00	9.90	222.5
6/28/2011 0:00	8.38	211.7
6/28/2011 1:00	10.59	217.6
6/28/2011 2:00	10.30	228.8
6/28/2011 3:00	7.99	227.4
6/28/2011 4:00	6.62	218
6/28/2011 5:00	4.38	184.8
6/28/2011 6:00	4.96	205.5
6/28/2011 7:00	7.13	236.9
6/28/2011 8:00	5.19	235.9
6/28/2011 9:00	3.90	252.1
6/28/2011 10:00	3.55	260.7
6/28/2011 11:00	3.38	258.5
6/28/2011 12:00	3.39	257
6/28/2011 13:00	3.40	276.1
6/28/2011 14:00	4.31	279.1
6/28/2011 15:00	6.00	257.3
6/28/2011 16:00	8.32	253.6
6/28/2011 17:00	9.59	258.8
6/28/2011 18:00	9.77	255.7
6/28/2011 19:00	8.73	254.5
6/28/2011 20:00	8.79	251.2
6/28/2011 21:00	10.12	241.7
6/28/2011 22:00	9.28	238
6/28/2011 23:00	6.09	220.4
6/29/2011 0:00	4.18	185.1
6/29/2011 1:00	4.15	152.6
6/29/2011 2:00	6.06	159.3
6/29/2011 3:00	7.08	160.5
6/29/2011 4:00	7.62	164.4
6/29/2011 5:00	6.79	172.7
6/29/2011 6:00	6.46	178.5
6/29/2011 7:00	5.23	173.1
6/29/2011 8:00	5.37	152.6
6/29/2011 9:00	6.19	149.6
6/29/2011 10:00	5.39	174.7
6/29/2011 11:00	5.64	189.7
6/29/2011 12:00	4.56	217.4
6/29/2011 13:00	2.91	272.3
6/29/2011 14:00	2.66	348.5
6/29/2011 15:00	4.45	355.8
6/29/2011 16:00	5.07	349.6
6/29/2011 17:00	4.94	341.4
6/29/2011 18:00	7.33	6.297
6/29/2011 19:00	9.17	45.64
6/29/2011 20:00	12.81	85.1
6/29/2011 21:00	12.20	80.4
6/29/2011 22:00	11.36	83.7
6/29/2011 23:00	8.09	75.24
6/30/2011 0:00	9.37	59.17
6/30/2011 1:00	7.32	38

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
6/30/2011 2:00	7.32	10.87
6/30/2011 3:00	8.13	357.5
6/30/2011 4:00	8.51	5.17
6/30/2011 5:00	8.75	2.631
6/30/2011 6:00	9.85	350.5
6/30/2011 7:00	8.78	351.4
6/30/2011 8:00	7.60	337.1
6/30/2011 9:00	7.27	329.9
6/30/2011 10:00	7.07	302.3
6/30/2011 11:00	8.10	300
6/30/2011 12:00	10.05	297.2
6/30/2011 13:00	11.39	297.5
6/30/2011 14:00	11.25	299.7
6/30/2011 15:00	12.18	294.2
6/30/2011 16:00	11.38	295
6/30/2011 17:00	10.15	278
6/30/2011 18:00	10.16	283.9
6/30/2011 19:00	9.02	282.8
6/30/2011 20:00	8.52	284.1
6/30/2011 21:00	7.06	266.7
6/30/2011 22:00	6.71	265
6/30/2011 23:00	5.67	265.2
7/1/2011 0:00	6.80	253.5
7/1/2011 1:00	7.90	253
7/1/2011 2:00	6.36	260.1
7/1/2011 3:00	3.82	267.4
7/1/2011 4:00	3.32	264.8
7/1/2011 5:00	2.83	276.2
7/1/2011 6:00	2.60	283.5
7/1/2011 7:00	2.08	328.9
7/1/2011 8:00	4.93	308.9
7/1/2011 9:00	6.18	345.5
7/1/2011 10:00	6.16	357.4
7/1/2011 11:00	7.58	12.92
7/1/2011 12:00	10.14	15.83
7/1/2011 13:00	9.23	8.87
7/1/2011 14:00	10.15	7.316
7/1/2011 15:00	8.07	357
7/1/2011 16:00	12.65	13.26
7/1/2011 17:00	12.73	9.56
7/1/2011 18:00	13.37	12.98
7/1/2011 19:00	13.20	25.7
7/1/2011 20:00	10.58	35.39
7/1/2011 21:00	10.56	47.88
7/1/2011 22:00	13.09	60.55
7/1/2011 23:00	13.29	63.75
7/2/2011 0:00	13.90	64.99
7/2/2011 1:00	14.08	65.47
7/2/2011 2:00	13.81	62.41
7/2/2011 3:00	13.80	58.77
7/2/2011 4:00	14.47	58.28
7/2/2011 5:00	14.58	61.49
7/2/2011 6:00	15.14	63.78
7/2/2011 7:00	13.45	62.79
7/2/2011 8:00	13.01	60.5
7/2/2011 9:00	12.63	62.7
7/2/2011 10:00	12.55	61.41
7/2/2011 11:00	11.94	57.67
7/2/2011 12:00	14.39	57.52
7/2/2011 13:00	16.10	60.7
7/2/2011 14:00	15.31	63.94
7/2/2011 15:00	15.21	67.48
7/2/2011 16:00	15.46	67.66
7/2/2011 17:00	15.65	70.58
7/2/2011 18:00	15.31	68.46
7/2/2011 19:00	14.99	71.92
7/2/2011 20:00	13.95	72.68
7/2/2011 21:00	13.66	73.48
7/2/2011 22:00	12.51	68.96
7/2/2011 23:00	14.74	71.82

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
7/3/2011 0:00	12.86	73.96
7/3/2011 1:00	12.87	82.8
7/3/2011 2:00	12.67	85.2
7/3/2011 3:00	11.36	99.5
7/3/2011 4:00	10.38	102.2
7/3/2011 5:00	10.83	102.2
7/3/2011 6:00	10.83	104.2
7/3/2011 7:00	10.39	109.6
7/3/2011 8:00	9.74	116.8
7/3/2011 9:00	10.61	116.8
7/3/2011 10:00	11.20	126.3
7/3/2011 11:00	10.17	113.3
7/3/2011 12:00	9.08	101
7/3/2011 13:00	9.95	109.8
7/3/2011 14:00	11.09	158.8
7/3/2011 15:00	10.03	176.4
7/3/2011 16:00	7.50	166.1
7/3/2011 17:00	6.10	139
7/3/2011 18:00	9.99	116.4
7/3/2011 19:00	9.81	101.8
7/3/2011 20:00	11.68	104.7
7/3/2011 21:00	7.09	104.2
7/3/2011 22:00	9.36	104.5
7/3/2011 23:00	8.96	113.8
7/4/2011 0:00	8.07	120.8
7/4/2011 1:00	6.04	126.5
7/4/2011 2:00	4.82	117.4
7/4/2011 3:00	5.75	125.1
7/4/2011 4:00	6.14	134.7
7/4/2011 5:00	7.49	128.2
7/4/2011 6:00	7.41	113.5
7/4/2011 7:00	7.56	108
7/4/2011 8:00	6.40	106.1
7/4/2011 9:00	5.70	103.8
7/4/2011 10:00	8.47	105.3
7/4/2011 11:00	9.77	103.9
7/4/2011 12:00	11.63	102.7
7/4/2011 13:00	11.55	99.2
7/4/2011 14:00	11.58	99.4
7/4/2011 15:00	11.53	98.7
7/4/2011 16:00	11.03	99.9
7/4/2011 17:00	10.07	93.3
7/4/2011 18:00	11.57	67.46
7/4/2011 19:00	12.64	67.01
7/4/2011 20:00	12.38	72.82
7/4/2011 21:00	12.32	75.29
7/4/2011 22:00	11.75	77.84
7/4/2011 23:00	8.37	69.57
7/5/2011 0:00	4.93	97
7/5/2011 1:00	5.03	90.3
7/5/2011 2:00	4.55	110.7
7/5/2011 3:00	3.05	130.3
7/5/2011 4:00	3.38	129.3
7/5/2011 5:00	4.28	126.7
7/5/2011 6:00	4.52	124.3
7/5/2011 7:00	4.03	130
7/5/2011 8:00	3.46	133.9
7/5/2011 9:00	2.80	98
7/5/2011 10:00	2.75	69.21
7/5/2011 11:00	2.81	53.51
7/5/2011 12:00	4.43	58.95
7/5/2011 13:00	5.70	82.2
7/5/2011 14:00	5.10	81.8
7/5/2011 15:00	7.10	57.42
7/5/2011 16:00	7.62	54.04
7/5/2011 17:00	6.48	52.31
7/5/2011 18:00	9.38	69.05
7/5/2011 19:00	9.07	67.99
7/5/2011 20:00	7.52	70.01
7/5/2011 21:00	6.89	80.8

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
7/5/2011 22:00	7.70	88.8
7/5/2011 23:00	8.61	88.6
7/6/2011 0:00	5.42	115.5
7/6/2011 1:00	5.32	119.8
7/6/2011 2:00	5.90	117.8
7/6/2011 3:00	4.14	124.4
7/6/2011 4:00	4.89	128
7/6/2011 5:00	4.52	126.7
7/6/2011 6:00	6.06	128.2
7/6/2011 7:00	5.40	113.5
7/6/2011 8:00	4.58	97.1
7/6/2011 9:00	2.97	86.2
7/6/2011 10:00	3.23	93.7
7/6/2011 11:00	2.76	100
7/6/2011 12:00	2.40	23.12
7/6/2011 13:00	4.76	359.3
7/6/2011 14:00	4.38	353.2
7/6/2011 15:00	4.00	348.8
7/6/2011 16:00	4.42	350.2
7/6/2011 17:00	4.37	357.9
7/6/2011 18:00	2.12	345.6
7/6/2011 19:00	3.20	346.6
7/6/2011 20:00	3.18	354.1
7/6/2011 21:00	2.84	351.2
7/6/2011 22:00	2.16	311
7/6/2011 23:00	3.19	343.1
7/7/2011 0:00	3.57	358
7/7/2011 1:00	2.66	329.5
7/7/2011 2:00	1.57	306.8
7/7/2011 3:00	2.22	328.4
7/7/2011 4:00	2.40	316
7/7/2011 5:00	1.79	326.3
7/7/2011 6:00	2.48	330.2
7/7/2011 7:00	5.70	334.8
7/7/2011 8:00	4.06	339.2
7/7/2011 9:00	4.50	359.7
7/7/2011 10:00	2.52	344.1
7/7/2011 11:00	2.24	336.8
7/7/2011 12:00	2.56	349.4
7/7/2011 13:00	2.88	354
7/7/2011 14:00	2.55	353.3
7/7/2011 15:00	2.05	344.9
7/7/2011 16:00	2.06	351.5
7/7/2011 17:00	2.23	7.473
7/7/2011 18:00	2.31	307.9
7/7/2011 19:00	2.46	296.6
7/7/2011 20:00	1.26	3.519
7/7/2011 21:00	4.56	250.5
7/7/2011 22:00	5.97	249.8
7/7/2011 23:00	5.64	248.8
7/8/2011 0:00	5.83	242.1
7/8/2011 1:00	5.83	255
7/8/2011 2:00	5.47	248.4
7/8/2011 3:00	4.54	247.3
7/8/2011 4:00	1.13	160.1
7/8/2011 5:00	5.14	257.5
7/8/2011 6:00	2.17	205.8
7/8/2011 7:00	2.10	131.4
7/8/2011 8:00	1.54	157.1
7/8/2011 9:00	3.14	165
7/8/2011 10:00	4.03	160.6
7/8/2011 11:00	2.59	124.1
7/8/2011 12:00	4.14	120.9
7/8/2011 13:00	4.42	103.1
7/8/2011 14:00	3.68	73.15
7/8/2011 15:00	1.84	46.31
7/8/2011 16:00	1.56	358.6
7/8/2011 17:00	2.43	304.4
7/8/2011 18:00	2.38	341.5
7/8/2011 19:00	1.71	2.101

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
7/8/2011 20:00	1.18	344.4
7/8/2011 21:00	1.17	356.5
7/8/2011 22:00	5.59	105.3
7/8/2011 23:00	5.24	118.1
7/9/2011 0:00	4.80	123.3
7/9/2011 1:00	3.65	119.2
7/9/2011 2:00	2.95	124.2
7/9/2011 3:00	2.86	137.8
7/9/2011 4:00	2.28	149.9
7/9/2011 5:00	1.49	142.7
7/9/2011 6:00	1.95	123.1
7/9/2011 7:00	1.40	120.9
7/9/2011 8:00	1.47	357.4
7/9/2011 9:00	2.73	354.9
7/9/2011 10:00	3.45	2.421
7/9/2011 11:00	2.98	345.7
7/9/2011 12:00	3.19	338
7/9/2011 13:00	3.78	349.5
7/9/2011 14:00	3.84	352.7
7/9/2011 15:00	3.21	339
7/9/2011 16:00	3.42	343
7/9/2011 17:00	4.34	43.49
7/9/2011 18:00	6.75	57.76
7/9/2011 19:00	7.96	69.85
7/9/2011 20:00	8.51	78.73
7/9/2011 21:00	8.44	81
7/9/2011 22:00	7.57	88.2
7/9/2011 23:00	6.49	93.9
7/10/2011 0:00	5.03	110.6
7/10/2011 1:00	5.28	125.2
7/10/2011 2:00	6.19	119.4
7/10/2011 3:00	5.47	117.5
7/10/2011 4:00	5.73	112.6
7/10/2011 5:00	4.90	122.2
7/10/2011 6:00	5.83	119.3
7/10/2011 7:00	6.38	112
7/10/2011 8:00	5.67	108.1
7/10/2011 9:00	5.05	107.2
7/10/2011 10:00	3.82	100.4
7/10/2011 11:00	2.81	88.1
7/10/2011 12:00	2.97	20.1
7/10/2011 13:00	4.12	16.79
7/10/2011 14:00	5.07	356
7/10/2011 15:00	5.13	0.051
7/10/2011 16:00	4.89	354.8
7/10/2011 17:00	4.30	354.1
7/10/2011 18:00	3.73	351.7
7/10/2011 19:00	2.57	344.8
7/10/2011 20:00	2.65	3.084
7/10/2011 21:00	2.61	29.1
7/10/2011 22:00	0.65	328.6
7/10/2011 23:00	1.23	255.8
7/11/2011 0:00	1.84	234.6
7/11/2011 1:00	2.41	249.7
7/11/2011 2:00	4.84	246.4
7/11/2011 3:00	7.51	249.3
7/11/2011 4:00	4.95	254.9
7/11/2011 5:00	8.56	255.6
7/11/2011 6:00	9.79	253.1
7/11/2011 7:00	8.95	254.5
7/11/2011 8:00	8.77	253.7
7/11/2011 9:00	10.02	249.7
7/11/2011 10:00	9.91	250.8
7/11/2011 11:00	10.93	248.8
7/11/2011 12:00	11.97	247.4
7/11/2011 13:00	10.93	253.4
7/11/2011 14:00	13.37	249.5
7/11/2011 15:00	14.81	246.1
7/11/2011 16:00	15.76	248.9
7/11/2011 17:00	15.37	248.5

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
7/11/2011 18:00	14.36	245
7/11/2011 19:00	14.10	237.6
7/11/2011 20:00	12.89	240.7
7/11/2011 21:00	10.52	244.6
7/11/2011 22:00	11.09	245.9
7/11/2011 23:00	8.85	250.3
7/12/2011 0:00	10.22	244.2
7/12/2011 1:00	11.97	247.4
7/12/2011 2:00	13.15	244.5
7/12/2011 3:00	11.40	254.4
7/12/2011 4:00	12.27	258.1
7/12/2011 5:00	11.96	267.3
7/12/2011 6:00	6.36	311.3
7/12/2011 7:00	7.00	320.5
7/12/2011 8:00	7.16	315
7/12/2011 9:00	6.62	316.2
7/12/2011 10:00	5.94	330.7
7/12/2011 11:00	5.15	336.3
7/12/2011 12:00	4.64	314.4
7/12/2011 13:00	4.73	321.8
7/12/2011 14:00	5.07	320.5
7/12/2011 15:00	5.47	330.9
7/12/2011 16:00	5.75	343.2
7/12/2011 17:00	6.13	2.511
7/12/2011 18:00	6.55	13.98
7/12/2011 19:00	5.94	22.6
7/12/2011 20:00	5.99	24.94
7/12/2011 21:00	6.50	23.78
7/12/2011 22:00	5.58	28.21
7/12/2011 23:00	3.85	25.81
7/13/2011 0:00	3.24	15.15
7/13/2011 1:00	3.46	36.89
7/13/2011 2:00	2.32	143.5
7/13/2011 3:00	1.40	255.8
7/13/2011 4:00	1.89	320.4
7/13/2011 5:00	2.88	347.6
7/13/2011 6:00	2.76	346.5
7/13/2011 7:00	2.31	350.9
7/13/2011 8:00	2.09	8.16
7/13/2011 9:00	2.25	356.5
7/13/2011 10:00	2.60	5.073
7/13/2011 11:00	3.11	359.9
7/13/2011 12:00	3.31	1.911
7/13/2011 13:00	3.33	5.659
7/13/2011 14:00	4.07	5.23
7/13/2011 15:00	4.09	317.3
7/13/2011 16:00	4.35	282.4
7/13/2011 17:00	3.67	281.7
7/13/2011 18:00	3.36	269.7
7/13/2011 19:00	4.31	256.4
7/13/2011 20:00	5.14	250
7/13/2011 21:00	6.09	251.3
7/13/2011 22:00	6.78	251.2
7/13/2011 23:00	7.22	253.6
7/14/2011 0:00	6.72	271.3
7/14/2011 1:00	6.69	260.1
7/14/2011 2:00	7.16	253.2
7/14/2011 3:00	6.89	258.9
7/14/2011 4:00	7.23	253.9
7/14/2011 5:00	8.48	250.8
7/14/2011 6:00	7.92	252.3
7/14/2011 7:00	5.78	255.4
7/14/2011 8:00	5.32	252.7
7/14/2011 9:00	5.86	257.6
7/14/2011 10:00	5.76	254.2
7/14/2011 11:00	6.71	250.7
7/14/2011 12:00	5.72	255.3
7/14/2011 13:00	4.08	283.4
7/14/2011 14:00	6.63	6.191
7/14/2011 15:00	7.44	6.621

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
7/14/2011 16:00	6.31	8.23
7/14/2011 17:00	6.01	14.88
7/14/2011 18:00	5.18	20.14
7/14/2011 19:00	4.94	22.96
7/14/2011 20:00	4.91	14.55
7/14/2011 21:00	3.67	4.569
7/14/2011 22:00	3.84	18.8
7/14/2011 23:00	6.46	31.79
7/15/2011 0:00	4.92	35.36
7/15/2011 1:00	5.16	29.47
7/15/2011 2:00	4.52	18.22
7/15/2011 3:00	3.08	9.09
7/15/2011 4:00	2.17	329.2
7/15/2011 5:00	2.31	344.1
7/15/2011 6:00	2.90	5.029
7/15/2011 7:00	1.29	342.7
7/15/2011 8:00	2.08	350.5
7/15/2011 9:00	2.27	355.2
7/15/2011 10:00	2.34	341.3
7/15/2011 11:00	1.79	351.6
7/15/2011 12:00	3.92	256
7/15/2011 13:00	5.18	248.2
7/15/2011 14:00	6.30	255.1
7/15/2011 15:00	5.98	258.6
7/15/2011 16:00	6.36	257.4
7/15/2011 17:00	7.26	254.5
7/15/2011 18:00	7.09	253.7
7/15/2011 19:00	4.33	286
7/15/2011 20:00	6.59	354.9
7/15/2011 21:00	5.59	338.6
7/15/2011 22:00	5.98	338.5
7/15/2011 23:00	3.54	14.34
7/16/2011 0:00	5.18	58.33
7/16/2011 1:00	3.30	58.95
7/16/2011 2:00	4.10	35.23
7/16/2011 3:00	4.45	30.2
7/16/2011 4:00	4.04	27.45
7/16/2011 5:00	4.83	23.56
7/16/2011 6:00	4.20	15.34
7/16/2011 7:00	3.91	5.251
7/16/2011 8:00	3.62	357.5
7/16/2011 9:00	3.61	8.44
7/16/2011 10:00	1.54	339.7
7/16/2011 11:00	2.83	315.9
7/16/2011 12:00	3.15	340.5
7/16/2011 13:00	3.03	4.12
7/16/2011 14:00	4.49	338.6
7/16/2011 15:00	5.24	309.3
7/16/2011 16:00	4.92	301.9
7/16/2011 17:00	5.68	270.4
7/16/2011 18:00	6.49	259
7/16/2011 19:00	7.71	317.1
7/16/2011 20:00	8.19	318.9
7/16/2011 21:00	7.00	311.2
7/16/2011 22:00	5.38	296
7/16/2011 23:00	6.11	292.8
7/17/2011 0:00	6.04	286
7/17/2011 1:00	5.62	279.2
7/17/2011 2:00	4.22	271.3
7/17/2011 3:00	5.29	260
7/17/2011 4:00	7.05	252.4
7/17/2011 5:00	7.01	255.3
7/17/2011 6:00	6.86	258.9
7/17/2011 7:00	7.53	259.5
7/17/2011 8:00	5.34	261.3
7/17/2011 9:00	4.50	255.2
7/17/2011 10:00	3.20	269.9
7/17/2011 11:00	3.56	295
7/17/2011 12:00	4.16	302.1
7/17/2011 13:00	4.72	308

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
7/17/2011 14:00	4.66	322.1
7/17/2011 15:00	3.62	329.7
7/17/2011 16:00	4.01	307.7
7/17/2011 17:00	3.37	337.6
7/17/2011 18:00	2.15	349
7/17/2011 19:00	2.35	350.2
7/17/2011 20:00	2.72	359.8
7/17/2011 21:00	2.65	353.9
7/17/2011 22:00	2.55	353.3
7/17/2011 23:00	2.47	348.7
7/18/2011 0:00	2.71	354.1
7/18/2011 1:00	4.49	15.22
7/18/2011 2:00	6.48	42.83
7/18/2011 3:00	2.99	77.99
7/18/2011 4:00	3.28	47.3
7/18/2011 5:00	3.92	55.97
7/18/2011 6:00	4.33	78.01
7/18/2011 7:00	5.55	79.51
7/18/2011 8:00	8.40	89.3
7/18/2011 9:00	8.27	87.3
7/18/2011 10:00	8.16	83.8
7/18/2011 11:00	8.32	81.7
7/18/2011 12:00	8.19	86.1
7/18/2011 13:00	8.69	82.5
7/18/2011 14:00	8.64	91.9
7/18/2011 15:00	9.71	88.5
7/18/2011 16:00	9.93	96.9
7/18/2011 17:00	9.68	96.4
7/18/2011 18:00	9.60	89.9
7/18/2011 19:00	10.70	84.2
7/18/2011 20:00	11.49	87.5
7/18/2011 21:00	11.02	85.4
7/18/2011 22:00	10.80	84.6
7/18/2011 23:00	10.15	90.6
7/19/2011 0:00	9.23	100.7
7/19/2011 1:00	6.44	113.7
7/19/2011 2:00	7.04	113.5
7/19/2011 3:00	6.70	126.2
7/19/2011 4:00	6.53	136.3
7/19/2011 5:00	7.53	124.4
7/19/2011 6:00	6.01	129.8
7/19/2011 7:00	7.96	112.6
7/19/2011 8:00	9.46	101.9
7/19/2011 9:00	9.67	102.1
7/19/2011 10:00	9.71	96.8
7/19/2011 11:00	9.58	99.4
7/19/2011 12:00	10.97	91.8
7/19/2011 13:00	11.61	99.3
7/19/2011 14:00	11.42	94.4
7/19/2011 15:00	11.40	94.3
7/19/2011 16:00	11.55	87.4
7/19/2011 17:00	13.39	76.01
7/19/2011 18:00	14.52	76.9
7/19/2011 19:00	14.34	77.39
7/19/2011 20:00	13.77	80.7
7/19/2011 21:00	12.52	80.3
7/19/2011 22:00	10.64	82.1
7/19/2011 23:00	9.13	83.9
7/20/2011 0:00	8.06	87.6
7/20/2011 1:00	6.63	93.6
7/20/2011 2:00	3.06	117.4
7/20/2011 3:00	3.60	133.3
7/20/2011 4:00	4.89	126.5
7/20/2011 5:00	5.14	120.8
7/20/2011 6:00	6.17	114.2
7/20/2011 7:00	7.64	110
7/20/2011 8:00	6.39	104.3
7/20/2011 9:00	5.81	102.4
7/20/2011 10:00	5.35	108.5
7/20/2011 11:00	4.70	114.3

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
7/20/2011 12:00	7.06	124.4
7/20/2011 13:00	8.27	124.1
7/20/2011 14:00	8.69	123.1
7/20/2011 15:00	8.90	124.1
7/20/2011 16:00	9.33	133.8
7/20/2011 17:00	8.58	141.5
7/20/2011 18:00	8.74	144.1
7/20/2011 19:00	7.66	139.8
7/20/2011 20:00	7.58	138.3
7/20/2011 21:00	7.83	124.6
7/20/2011 22:00	5.77	130.6
7/20/2011 23:00	5.23	126.9
7/21/2011 0:00	6.51	133.8
7/21/2011 1:00	5.62	136.6
7/21/2011 2:00	5.00	146.2
7/21/2011 3:00	5.36	148
7/21/2011 4:00	4.72	139.8
7/21/2011 5:00	5.15	152
7/21/2011 6:00	7.21	168.5
7/21/2011 7:00	8.85	179.4
7/21/2011 8:00	7.95	182.5
7/21/2011 9:00	6.89	182.8
7/21/2011 10:00	6.18	178.5
7/21/2011 11:00	4.37	215.2
7/21/2011 12:00	1.59	329.4
7/21/2011 13:00	1.19	329.6
7/21/2011 14:00	2.00	310.8
7/21/2011 15:00	1.91	303.6
7/21/2011 16:00	2.30	331.9
7/21/2011 17:00	1.67	343.7
7/21/2011 18:00	1.92	311.3
7/21/2011 19:00	1.53	343
7/21/2011 20:00	1.22	352.6
7/21/2011 21:00	1.90	16.42
7/21/2011 22:00	1.46	85.6
7/21/2011 23:00	1.83	137.1
7/22/2011 0:00	2.43	148.9
7/22/2011 1:00	3.37	149.3
7/22/2011 2:00	4.01	147.5
7/22/2011 3:00	3.59	143.6
7/22/2011 4:00	5.17	159.1
7/22/2011 5:00	4.50	162.4
7/22/2011 6:00	2.51	146
7/22/2011 7:00	1.94	155.8
7/22/2011 8:00	1.23	151.6
7/22/2011 9:00	0.56	95.9
7/22/2011 10:00	1.23	353.3
7/22/2011 11:00	1.94	335.7
7/22/2011 12:00	3.84	257.9
7/22/2011 13:00	1.74	301
7/22/2011 14:00	1.19	331.3
7/22/2011 15:00	1.59	284.8
7/22/2011 16:00	1.88	332.5
7/22/2011 17:00	1.65	354.2
7/22/2011 18:00	1.88	356.5
7/22/2011 19:00	1.43	10.57
7/22/2011 20:00	1.72	357.6
7/22/2011 21:00	5.86	89.6
7/22/2011 22:00	5.46	120.5
7/22/2011 23:00	5.33	114.8
7/23/2011 0:00	5.89	116.6
7/23/2011 1:00	5.86	118.4
7/23/2011 2:00	5.57	105
7/23/2011 3:00	6.18	95.3
7/23/2011 4:00	6.01	103.9
7/23/2011 5:00	6.25	97.7
7/23/2011 6:00	5.50	75.57
7/23/2011 7:00	5.87	79.46
7/23/2011 8:00	6.32	104
7/23/2011 9:00	5.25	97

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
7/23/2011 10:00	5.87	103.6
7/23/2011 11:00	6.97	93.9
7/23/2011 12:00	7.24	108.6
7/23/2011 13:00	6.84	104.4
7/23/2011 14:00	7.14	95.4
7/23/2011 15:00	6.33	92.3
7/23/2011 16:00	7.38	96.7
7/23/2011 17:00	7.72	99.8
7/23/2011 18:00	8.26	91.5
7/23/2011 19:00	8.79	87.4
7/23/2011 20:00	8.40	90.2
7/23/2011 21:00	7.98	94.4
7/23/2011 22:00	7.68	99.5
7/23/2011 23:00	8.43	97
7/24/2011 0:00	6.15	103.2
7/24/2011 1:00	7.18	93.3
7/24/2011 2:00	8.62	100.7
7/24/2011 3:00	7.67	106.9
7/24/2011 4:00	7.48	105.9
7/24/2011 5:00	6.52	95.6
7/24/2011 6:00	7.99	97.8
7/24/2011 7:00	9.00	97.2
7/24/2011 8:00	9.35	100.2
7/24/2011 9:00	7.86	109.2
7/24/2011 10:00	8.15	102.4
7/24/2011 11:00	7.37	79.76
7/24/2011 12:00	6.70	73.87
7/24/2011 13:00	8.08	75.51
7/24/2011 14:00	7.90	78.34
7/24/2011 15:00	8.63	76.93
7/24/2011 16:00	8.62	88.9
7/24/2011 17:00	8.80	86.9
7/24/2011 18:00	8.34	87.4
7/24/2011 19:00	9.21	87.8
7/24/2011 20:00	9.55	87.6
7/24/2011 21:00	8.99	86.4
7/24/2011 22:00	7.76	93.1
7/24/2011 23:00	7.18	92.3
7/25/2011 0:00	3.72	100.6
7/25/2011 1:00	5.30	111.1
7/25/2011 2:00	7.63	104.7
7/25/2011 3:00	7.51	117.5
7/25/2011 4:00	7.99	112
7/25/2011 5:00	7.46	121.2
7/25/2011 6:00	8.48	108.9
7/25/2011 7:00	8.42	105.4
7/25/2011 8:00	8.27	108.9
7/25/2011 9:00	9.04	105.7
7/25/2011 10:00	10.12	107.5
7/25/2011 11:00	10.27	115.4
7/25/2011 12:00	10.22	120.3
7/25/2011 13:00	9.87	115.9
7/25/2011 14:00	8.65	111.3
7/25/2011 15:00	7.81	108.8
7/25/2011 16:00	7.68	100.3
7/25/2011 17:00	8.48	94.3
7/25/2011 18:00	9.23	101.2
7/25/2011 19:00	7.26	220.3
7/25/2011 20:00	7.81	249.9
7/25/2011 21:00	6.88	278.8
7/25/2011 22:00	2.88	295.4
7/25/2011 23:00	7.78	252.8
7/26/2011 0:00	12.04	251.4
7/26/2011 1:00	13.35	242.5
7/26/2011 2:00	12.84	247.8
7/26/2011 3:00	13.29	245.5
7/26/2011 4:00	7.93	262.9
7/26/2011 5:00	6.85	289.7
7/26/2011 6:00	7.66	293.9
7/26/2011 7:00	7.28	285

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
7/26/2011 8:00	8.27	274.5
7/26/2011 9:00	9.55	274.6
7/26/2011 10:00	8.19	269.3
7/26/2011 11:00	9.00	275.6
7/26/2011 12:00	7.90	274.5
7/26/2011 13:00	9.55	275.5
7/26/2011 14:00	8.86	271.3
7/26/2011 15:00	10.52	256.6
7/26/2011 16:00	9.77	258.5
7/26/2011 17:00	9.82	256.2
7/26/2011 18:00	9.65	256.8
7/26/2011 19:00	10.05	256.7
7/26/2011 20:00	9.23	258.2
7/26/2011 21:00	10.30	251.2
7/26/2011 22:00	10.06	252.2
7/26/2011 23:00	6.97	255.9
7/27/2011 0:00	3.16	288.8
7/27/2011 1:00	5.22	340.4
7/27/2011 2:00	7.88	4.116
7/27/2011 3:00	8.31	357.5
7/27/2011 4:00	7.63	342.3
7/27/2011 5:00	6.40	332.8
7/27/2011 6:00	7.35	341.8
7/27/2011 7:00	7.97	341.3
7/27/2011 8:00	8.64	346.1
7/27/2011 9:00	7.93	352.7
7/27/2011 10:00	7.18	359.5
7/27/2011 11:00	6.21	348.1
7/27/2011 12:00	6.42	352.6
7/27/2011 13:00	7.32	6.706
7/27/2011 14:00	7.56	11.96
7/27/2011 15:00	7.49	12.59
7/27/2011 16:00	6.52	20.85
7/27/2011 17:00	6.48	22.22
7/27/2011 18:00	6.12	27.29
7/27/2011 19:00	4.24	32.57
7/27/2011 20:00	3.05	29.36
7/27/2011 21:00	1.63	346.2
7/27/2011 22:00	1.44	308.2
7/27/2011 23:00	0.72	281
7/28/2011 0:00	1.02	267
7/28/2011 1:00	1.25	224.3
7/28/2011 2:00	0.97	212.2
7/28/2011 3:00	1.88	258.5
7/28/2011 4:00	1.88	251.1
7/28/2011 5:00	3.77	257.9
7/28/2011 6:00	4.51	254.5
7/28/2011 7:00	4.31	259.5
7/28/2011 8:00	3.65	249.9
7/28/2011 9:00	5.93	257.3
7/28/2011 10:00	7.66	257.2
7/28/2011 11:00	8.10	256.5
7/28/2011 12:00	8.70	256.4
7/28/2011 13:00	7.70	257
7/28/2011 14:00	6.80	257.4
7/28/2011 15:00	6.33	255
7/28/2011 16:00	4.75	249.3
7/28/2011 17:00	3.13	256.9
7/28/2011 18:00	1.75	264.2
7/28/2011 19:00	1.41	308.4
7/28/2011 20:00	0.12	5.432
7/28/2011 21:00	0.80	17.24
7/28/2011 22:00	1.68	354.5
7/28/2011 23:00	1.46	0.476
7/29/2011 0:00	1.83	74.13
7/29/2011 1:00	2.27	112.9
7/29/2011 2:00	1.57	262
7/29/2011 3:00	1.67	286.4
7/29/2011 4:00	1.89	288.8
7/29/2011 5:00	2.40	268.7

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
7/29/2011 6:00	2.23	290.7
7/29/2011 7:00	2.61	273.1
7/29/2011 8:00	4.08	302.1
7/29/2011 9:00	6.85	310.4
7/29/2011 10:00	6.16	317.7
7/29/2011 11:00	5.49	305.9
7/29/2011 12:00	4.69	294.8
7/29/2011 13:00	3.27	311
7/29/2011 14:00	2.09	350.5
7/29/2011 15:00	4.42	5.195
7/29/2011 16:00	6.37	26.33
7/29/2011 17:00	5.94	25.17
7/29/2011 18:00	6.30	7.54
7/29/2011 19:00	5.95	63.24
7/29/2011 20:00	5.53	67.46
7/29/2011 21:00	4.76	64.08
7/29/2011 22:00	4.29	28.87
7/29/2011 23:00	4.35	9.73
7/30/2011 0:00	3.28	0.411
7/30/2011 1:00	3.10	17.07
7/30/2011 2:00	1.98	0.449
7/30/2011 3:00	2.66	10.84
7/30/2011 4:00	3.95	22.38
7/30/2011 5:00	3.33	20.14
7/30/2011 6:00	2.88	32.82
7/30/2011 7:00	2.79	22.57
7/30/2011 8:00	1.52	320.7
7/30/2011 9:00	2.56	0.226
7/30/2011 10:00	3.06	353.6
7/30/2011 11:00	3.64	345.6
7/30/2011 12:00	4.11	346.9
7/30/2011 13:00	4.55	347.7
7/30/2011 14:00	5.19	348.6
7/30/2011 15:00	5.89	358.3
7/30/2011 16:00	4.84	355.8
7/30/2011 17:00	3.42	350.7
7/30/2011 18:00	3.32	341.7
7/30/2011 19:00	3.52	347.7
7/30/2011 20:00	3.56	2.55
7/30/2011 21:00	4.02	23.56
7/30/2011 22:00	4.64	79.47
7/30/2011 23:00	4.65	102.9
7/31/2011 0:00	4.10	132.3
7/31/2011 1:00	3.85	131.6
7/31/2011 2:00	4.26	143.3
7/31/2011 3:00	4.58	153.2
7/31/2011 4:00	4.42	150.2
7/31/2011 5:00	4.28	150.9
7/31/2011 6:00	3.57	147.7
7/31/2011 7:00	3.73	143.1
7/31/2011 8:00	4.42	118.6
7/31/2011 9:00	5.14	126.8
7/31/2011 10:00	5.14	124.8
7/31/2011 11:00	5.83	117.7
7/31/2011 12:00	5.81	112.4
7/31/2011 13:00	6.05	102.4
7/31/2011 14:00	5.76	100.1
7/31/2011 15:00	6.15	103.3
7/31/2011 16:00	6.32	92.2
7/31/2011 17:00	7.39	84.9
7/31/2011 18:00	7.05	94.4
7/31/2011 19:00	9.02	82.8
7/31/2011 20:00	9.87	86.4
7/31/2011 21:00	10.86	85.2
7/31/2011 22:00	9.60	86.3
7/31/2011 23:00	7.68	97.9
8/1/2011 0:00	6.74	108
8/1/2011 1:00	5.58	123.2
8/1/2011 2:00	3.65	134.3
8/1/2011 3:00	4.36	118.8

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
8/1/2011 4:00	3.98	110.1
8/1/2011 5:00	4.43	109.1
8/1/2011 6:00	4.56	86.8
8/1/2011 7:00	5.38	82.3
8/1/2011 8:00	5.84	75.95
8/1/2011 9:00	7.02	77.35
8/1/2011 10:00	7.81	78.59
8/1/2011 11:00	10.05	80.7
8/1/2011 12:00	9.61	69.05
8/1/2011 13:00	10.76	66.58
8/1/2011 14:00	10.55	70.83
8/1/2011 15:00	10.52	70.59
8/1/2011 16:00	11.23	68.49
8/1/2011 17:00	11.95	67.76
8/1/2011 18:00	11.25	67.61
8/1/2011 19:00	11.71	66.43
8/1/2011 20:00	10.83	67.54
8/1/2011 21:00	9.45	72.24
8/1/2011 22:00	6.36	65.87
8/1/2011 23:00	5.14	90.9
8/2/2011 0:00	6.09	101.7
8/2/2011 1:00	3.46	108.8
8/2/2011 2:00	2.24	78.61
8/2/2011 3:00	2.21	31.34
8/2/2011 4:00	1.94	7.261
8/2/2011 5:00	3.18	32.16
8/2/2011 6:00	3.11	20.65
8/2/2011 7:00	3.90	8.16
8/2/2011 8:00	3.08	340.6
8/2/2011 9:00	4.95	4.266
8/2/2011 10:00	5.95	358
8/2/2011 11:00	6.92	2.591
8/2/2011 12:00	8.24	4.915
8/2/2011 13:00	8.74	0.87
8/2/2011 14:00	8.94	3.525
8/2/2011 15:00	9.18	5.268
8/2/2011 16:00	7.62	12.95
8/2/2011 17:00	6.65	11.81
8/2/2011 18:00	6.70	17.66
8/2/2011 19:00	5.38	19.8
8/2/2011 20:00	5.75	34.35
8/2/2011 21:00	6.34	34.66
8/2/2011 22:00	7.18	21.28
8/2/2011 23:00	5.93	37.89
8/3/2011 0:00	3.17	51.39
8/3/2011 1:00	1.79	46.85
8/3/2011 2:00	3.94	11.94
8/3/2011 3:00	3.95	25.69
8/3/2011 4:00	2.66	11.09
8/3/2011 5:00	4.74	15.14
8/3/2011 6:00	4.30	16.64
8/3/2011 7:00	3.60	16.22
8/3/2011 8:00	3.67	11.21
8/3/2011 9:00	4.82	33.2
8/3/2011 10:00	5.92	17.66
8/3/2011 11:00	6.84	6.577
8/3/2011 12:00	7.18	5.175
8/3/2011 13:00	6.56	359.8
8/3/2011 14:00	6.22	0.937
8/3/2011 15:00	6.22	5.175
8/3/2011 16:00	5.13	4.1
8/3/2011 17:00	5.25	3.172
8/3/2011 18:00	4.93	12.95
8/3/2011 19:00	4.90	18.64
8/3/2011 20:00	4.97	25.99
8/3/2011 21:00	4.16	27.54
8/3/2011 22:00	3.71	35.91
8/3/2011 23:00	2.56	26.03
8/4/2011 0:00	0.69	321.3
8/4/2011 1:00	0.89	11.17

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
8/4/2011 2:00	1.39	110.7
8/4/2011 3:00	2.41	120
8/4/2011 4:00	0.86	133.3
8/4/2011 5:00	0.19	106
8/4/2011 6:00	0.62	112.4
8/4/2011 7:00	1.29	119.3
8/4/2011 8:00	1.25	73.4
8/4/2011 9:00	1.01	49.62
8/4/2011 10:00	2.55	357.2
8/4/2011 11:00	2.28	6.678
8/4/2011 12:00	2.13	11.33
8/4/2011 13:00	2.74	359.1
8/4/2011 14:00	3.18	352.7
8/4/2011 15:00	3.79	348.4
8/4/2011 16:00	3.54	344.8
8/4/2011 17:00	3.20	349
8/4/2011 18:00	3.16	6.581
8/4/2011 19:00	3.71	13.91
8/4/2011 20:00	1.70	47.54
8/4/2011 21:00	5.08	99.5
8/4/2011 22:00	6.92	114.1
8/4/2011 23:00	6.55	124.9
8/5/2011 0:00	5.78	136.2
8/5/2011 1:00	6.05	133.7
8/5/2011 2:00	5.51	132
8/5/2011 3:00	6.39	123.5
8/5/2011 4:00	6.66	132.6
8/5/2011 5:00	7.31	140
8/5/2011 6:00	6.21	133.6
8/5/2011 7:00	5.71	120.4
8/5/2011 8:00	5.77	131.8
8/5/2011 9:00	5.34	140
8/5/2011 10:00	5.24	150.6
8/5/2011 11:00	5.35	163.6
8/5/2011 12:00	3.34	151.3
8/5/2011 13:00	2.97	178.2
8/5/2011 14:00	0.94	81.4
8/5/2011 15:00	1.92	12.37
8/5/2011 16:00	2.39	353.7
8/5/2011 17:00	1.98	342.9
8/5/2011 18:00	2.26	329.9
8/5/2011 19:00	2.18	343.3
8/5/2011 20:00	2.14	91
8/5/2011 21:00	3.02	103.6
8/5/2011 22:00	4.14	112.8
8/5/2011 23:00	3.01	136.1
8/6/2011 0:00	2.74	140.1
8/6/2011 1:00	2.96	139.2
8/6/2011 2:00	3.68	132.9
8/6/2011 3:00	4.99	134.1
8/6/2011 4:00	5.06	130.4
8/6/2011 5:00	5.14	130.7
8/6/2011 6:00	5.27	127.9
8/6/2011 7:00	4.76	125.3
8/6/2011 8:00	6.48	119.6
8/6/2011 9:00	6.67	116.8
8/6/2011 10:00	6.19	112.9
8/6/2011 11:00	6.37	109.3
8/6/2011 12:00	7.14	104.7
8/6/2011 13:00	7.06	100.7
8/6/2011 14:00	6.99	99
8/6/2011 15:00	6.78	95.7
8/6/2011 16:00	6.24	98
8/6/2011 17:00	5.85	96.9
8/6/2011 18:00	6.41	96
8/6/2011 19:00	11.58	75.58
8/6/2011 20:00	11.42	77.72
8/6/2011 21:00	10.61	82
8/6/2011 22:00	9.25	83.5
8/6/2011 23:00	7.94	90.9

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
8/7/2011 0:00	8.30	99
8/7/2011 1:00	6.00	120.4
8/7/2011 2:00	4.58	120.1
8/7/2011 3:00	5.40	120.2
8/7/2011 4:00	4.82	123.9
8/7/2011 5:00	4.16	138.8
8/7/2011 6:00	4.73	117.4
8/7/2011 7:00	4.64	110.5
8/7/2011 8:00	5.26	102.8
8/7/2011 9:00	4.84	105.2
8/7/2011 10:00	9.27	87.3
8/7/2011 11:00	9.76	94.6
8/7/2011 12:00	10.69	98.1
8/7/2011 13:00	9.99	104.4
8/7/2011 14:00	9.20	100.8
8/7/2011 15:00	8.93	95.6
8/7/2011 16:00	10.05	79.58
8/7/2011 17:00	10.75	73.82
8/7/2011 18:00	10.63	71.94
8/7/2011 19:00	10.73	74.14
8/7/2011 20:00	9.55	76.38
8/7/2011 21:00	8.66	79.75
8/7/2011 22:00	9.11	85.2
8/7/2011 23:00	5.80	98.8
8/8/2011 0:00	7.13	87.8
8/8/2011 1:00	8.04	90.5
8/8/2011 2:00	5.80	109.4
8/8/2011 3:00	4.13	120.1
8/8/2011 4:00	4.70	97.6
8/8/2011 5:00	5.12	97.1
8/8/2011 6:00	5.12	101.4
8/8/2011 7:00	5.59	91.4
8/8/2011 8:00	5.83	89.3
8/8/2011 9:00	6.95	86.2
8/8/2011 10:00	5.38	83.3
8/8/2011 11:00	5.42	74.22
8/8/2011 12:00	5.71	70.06
8/8/2011 13:00	5.08	65.89
8/8/2011 14:00	4.90	56.61
8/8/2011 15:00	5.20	12.6
8/8/2011 16:00	8.18	6.292
8/8/2011 17:00	7.91	9.19
8/8/2011 18:00	7.38	10.14
8/8/2011 19:00	6.40	18.27
8/8/2011 20:00	5.86	20.36
8/8/2011 21:00	5.89	29.32
8/8/2011 22:00	5.89	29.04
8/8/2011 23:00	5.13	45.53
8/9/2011 0:00	6.52	66.62
8/9/2011 1:00	5.47	67
8/9/2011 2:00	4.05	72.74
8/9/2011 3:00	3.96	71.41
8/9/2011 4:00	4.17	67.76
8/9/2011 5:00	2.93	62.76
8/9/2011 6:00	3.51	49.86
8/9/2011 7:00	5.12	46.83
8/9/2011 8:00	4.93	53.87
8/9/2011 9:00	3.67	63.27
8/9/2011 10:00	4.31	54.18
8/9/2011 11:00	5.41	65.91
8/9/2011 12:00	5.43	48.8
8/9/2011 13:00	4.47	56.93
8/9/2011 14:00	6.34	30.49
8/9/2011 15:00	8.45	56.64
8/9/2011 16:00	9.67	65.16
8/9/2011 17:00	9.85	64.57
8/9/2011 18:00	10.28	64.91
8/9/2011 19:00	10.23	64.12
8/9/2011 20:00	9.76	66.11
8/9/2011 21:00	7.52	66.9

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
8/9/2011 22:00	5.90	55.41
8/9/2011 23:00	5.23	52.22
8/10/2011 0:00	7.20	61.12
8/10/2011 1:00	6.03	47.54
8/10/2011 2:00	5.22	39.08
8/10/2011 3:00	5.19	62.92
8/10/2011 4:00	4.73	48.84
8/10/2011 5:00	4.23	30.46
8/10/2011 6:00	3.69	1.883
8/10/2011 7:00	3.77	351.5
8/10/2011 8:00	3.31	327.4
8/10/2011 9:00	2.52	304.1
8/10/2011 10:00	4.96	351.6
8/10/2011 11:00	7.40	14.33
8/10/2011 12:00	4.07	1.666
8/10/2011 13:00	4.30	4.165
8/10/2011 14:00	6.13	25.35
8/10/2011 15:00	5.18	30.41
8/10/2011 16:00	5.26	52.76
8/10/2011 17:00	6.55	56.99
8/10/2011 18:00	7.04	50.63
8/10/2011 19:00	8.82	45.14
8/10/2011 20:00	7.78	56.16
8/10/2011 21:00	5.35	39.49
8/10/2011 22:00	7.14	60.17
8/10/2011 23:00	6.70	45.21
8/11/2011 0:00	5.76	34.03
8/11/2011 1:00	5.67	35.74
8/11/2011 2:00	4.48	38.47
8/11/2011 3:00	4.35	16.84
8/11/2011 4:00	4.91	11.71
8/11/2011 5:00	9.05	35.4
8/11/2011 6:00	8.95	34.71
8/11/2011 7:00	7.53	24.99
8/11/2011 8:00	5.32	18.2
8/11/2011 9:00	8.48	31.61
8/11/2011 10:00	7.40	26.15
8/11/2011 11:00	7.11	22.89
8/11/2011 12:00	5.05	16.74
8/11/2011 13:00	3.42	12.74
8/11/2011 14:00	7.48	35.95
8/11/2011 15:00	7.10	35.35
8/11/2011 16:00	5.12	31.43
8/11/2011 17:00	5.35	22.83
8/11/2011 18:00	5.81	7.796
8/11/2011 19:00	6.33	14.96
8/11/2011 20:00	6.28	14.91
8/11/2011 21:00	5.44	21.85
8/11/2011 22:00	3.86	19.49
8/11/2011 23:00	5.25	42.02
8/12/2011 0:00	4.20	72.17
8/12/2011 1:00	2.82	28.23
8/12/2011 2:00	4.81	26.43
8/12/2011 3:00	4.36	22.44
8/12/2011 4:00	5.51	33.28
8/12/2011 5:00	5.01	25.29
8/12/2011 6:00	3.94	25.77
8/12/2011 7:00	3.48	358.8
8/12/2011 8:00	4.54	341.7
8/12/2011 9:00	4.74	320.3
8/12/2011 10:00	6.21	324.4
8/12/2011 11:00	6.02	327.2
8/12/2011 12:00	5.28	327.3
8/12/2011 13:00	5.64	320.1
8/12/2011 14:00	5.79	335.3
8/12/2011 15:00	5.00	323.1
8/12/2011 16:00	4.62	337.1
8/12/2011 17:00	4.83	349.1
8/12/2011 18:00	3.42	340.6
8/12/2011 19:00	2.88	357.1

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
8/12/2011 20:00	4.35	4.183
8/12/2011 21:00	5.13	3.723
8/12/2011 22:00	4.17	322.3
8/12/2011 23:00	4.51	325.8
8/13/2011 0:00	3.54	328.6
8/13/2011 1:00	2.66	315.9
8/13/2011 2:00	1.83	300.4
8/13/2011 3:00	2.08	308.3
8/13/2011 4:00	2.07	282.3
8/13/2011 5:00	1.90	299.6
8/13/2011 6:00	2.59	318.8
8/13/2011 7:00	2.04	301.4
8/13/2011 8:00	0.45	11.81
8/13/2011 9:00	0.84	265
8/13/2011 10:00	2.79	269.2
8/13/2011 11:00	4.26	256.3
8/13/2011 12:00	4.72	254.1
8/13/2011 13:00	5.10	253.3
8/13/2011 14:00	5.93	251.7
8/13/2011 15:00	7.83	244.6
8/13/2011 16:00	7.04	245.6
8/13/2011 17:00	6.21	255.3
8/13/2011 18:00	6.50	260
8/13/2011 19:00	6.06	260.3
8/13/2011 20:00	5.41	264.3
8/13/2011 21:00	5.76	261.1
8/13/2011 22:00	7.33	252.2
8/13/2011 23:00	6.71	251.5
8/14/2011 0:00	6.13	254.7
8/14/2011 1:00	4.97	256.8
8/14/2011 2:00	4.79	256
8/14/2011 3:00	4.30	250
8/14/2011 4:00	4.07	252.4
8/14/2011 5:00	4.31	246
8/14/2011 6:00	1.08	257.5
8/14/2011 7:00	2.65	142.5
8/14/2011 8:00	2.26	116.2
8/14/2011 9:00	2.05	114
8/14/2011 10:00	1.55	31.46
8/14/2011 11:00	3.11	10.83
8/14/2011 12:00	3.60	1.805
8/14/2011 13:00	7.29	55.72
8/14/2011 14:00	9.84	70.16
8/14/2011 15:00	8.16	71.13
8/14/2011 16:00	7.50	65.91
8/14/2011 17:00	7.43	63.62
8/14/2011 18:00	7.40	65.84
8/14/2011 19:00	7.35	64.4
8/14/2011 20:00	7.96	71.62
8/14/2011 21:00	7.51	81.9
8/14/2011 22:00	7.11	84.4
8/14/2011 23:00	7.14	88.4
8/15/2011 0:00	7.30	100.1
8/15/2011 1:00	8.07	98.7
8/15/2011 2:00	7.83	102.9
8/15/2011 3:00	7.50	100.5
8/15/2011 4:00	7.76	92.2
8/15/2011 5:00	8.60	90.4
8/15/2011 6:00	9.71	94.8
8/15/2011 7:00	9.45	93.2
8/15/2011 8:00	8.14	100.8
8/15/2011 9:00	9.78	94.3
8/15/2011 10:00	10.44	95.3
8/15/2011 11:00	10.40	97.3
8/15/2011 12:00	10.45	101
8/15/2011 13:00	10.59	102.3
8/15/2011 14:00	9.90	97.5
8/15/2011 15:00	10.02	97.9
8/15/2011 16:00	10.00	95.9
8/15/2011 17:00	10.50	91.9

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
8/15/2011 18:00	11.97	82.5
8/15/2011 19:00	13.26	81
8/15/2011 20:00	12.23	88.3
8/15/2011 21:00	12.10	91
8/15/2011 22:00	11.26	94.6
8/15/2011 23:00	10.85	96.1
8/16/2011 0:00	10.82	94.9
8/16/2011 1:00	11.76	97.7
8/16/2011 2:00	8.27	94.8
8/16/2011 3:00	7.94	94.3
8/16/2011 4:00	9.46	86.9
8/16/2011 5:00	11.19	90.5
8/16/2011 6:00	10.80	94.9
8/16/2011 7:00	9.23	90.7
8/16/2011 8:00	9.66	84.8
8/16/2011 9:00	10.22	80.1
8/16/2011 10:00	11.23	81.6
8/16/2011 11:00	11.36	79.78
8/16/2011 12:00	9.52	73.78
8/16/2011 13:00	11.70	79.02
8/16/2011 14:00	11.10	73.91
8/16/2011 15:00	10.63	72.86
8/16/2011 16:00	10.11	72.53
8/16/2011 17:00	11.12	73.1
8/16/2011 18:00	11.68	77.91
8/16/2011 19:00	11.37	76.19
8/16/2011 20:00	11.42	79.45
8/16/2011 21:00	12.34	75.78
8/16/2011 22:00	11.72	72.81
8/16/2011 23:00	12.82	68.77
8/17/2011 0:00	12.45	66.2
8/17/2011 1:00	10.57	67.07
8/17/2011 2:00	9.67	64.91
8/17/2011 3:00	12.46	68.54
8/17/2011 4:00	13.75	65.38
8/17/2011 5:00	14.29	63.86
8/17/2011 6:00	14.52	69.19
8/17/2011 7:00	15.74	67.76
8/17/2011 8:00	14.52	67.53
8/17/2011 9:00	13.93	64.42
8/17/2011 10:00	13.55	66.07
8/17/2011 11:00	13.85	66.51
8/17/2011 12:00	13.17	67.76
8/17/2011 13:00	12.61	72.29
8/17/2011 14:00	13.84	84.3
8/17/2011 15:00	14.85	83.4
8/17/2011 16:00	16.54	82.8
8/17/2011 17:00	16.36	81.5
8/17/2011 18:00	16.19	81
8/17/2011 19:00	15.99	81.3
8/17/2011 20:00	14.10	77.78
8/17/2011 21:00	14.13	75.94
8/17/2011 22:00	14.53	78.12
8/17/2011 23:00	13.37	77.9
8/18/2011 0:00	13.12	84.3
8/18/2011 1:00	12.52	83.5
8/18/2011 2:00	12.84	90.1
8/18/2011 3:00	12.58	95.1
8/18/2011 4:00	11.89	92.7
8/18/2011 5:00	13.13	98.6
8/18/2011 6:00	12.51	104.6
8/18/2011 7:00	13.73	109.4
8/18/2011 8:00	13.45	111.6
8/18/2011 9:00	13.64	112.2
8/18/2011 10:00	14.36	112.4
8/18/2011 11:00	13.77	111.5
8/18/2011 12:00	14.03	110.8
8/18/2011 13:00	13.81	103.6
8/18/2011 14:00	14.54	106.1
8/18/2011 15:00	13.98	106

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
8/18/2011 16:00	12.21	105.2
8/18/2011 17:00	11.31	107.4
8/18/2011 18:00	11.03	109.1
8/18/2011 19:00	10.38	96.8
8/18/2011 20:00	10.96	83.8
8/18/2011 21:00	10.52	76.58
8/18/2011 22:00	9.53	79.89
8/18/2011 23:00	8.60	76.61
8/19/2011 0:00	8.36	78.68
8/19/2011 1:00	7.94	84.5
8/19/2011 2:00	5.40	103.2
8/19/2011 3:00	5.17	112.6
8/19/2011 4:00	4.56	115.1
8/19/2011 5:00	3.33	121.2
8/19/2011 6:00	3.21	108.6
8/19/2011 7:00	5.03	109.1
8/19/2011 8:00	4.00	117.3
8/19/2011 9:00	2.57	124
8/19/2011 10:00	1.67	93.7
8/19/2011 11:00	1.00	46.84
8/19/2011 12:00	1.47	337.2
8/19/2011 13:00	2.18	353.9
8/19/2011 14:00	1.25	11.48
8/19/2011 15:00	1.68	328.1
8/19/2011 16:00	3.59	259.6
8/19/2011 17:00	4.49	258.3
8/19/2011 18:00	4.68	257.6
8/19/2011 19:00	4.53	258.3
8/19/2011 20:00	5.41	262.8
8/19/2011 21:00	8.74	297.8
8/19/2011 22:00	7.07	299.2
8/19/2011 23:00	5.96	301.8
8/20/2011 0:00	5.85	285
8/20/2011 1:00	5.25	268.6
8/20/2011 2:00	4.82	272.7
8/20/2011 3:00	4.58	276.2
8/20/2011 4:00	4.20	277.7
8/20/2011 5:00	3.97	279.5
8/20/2011 6:00	4.49	278
8/20/2011 7:00	4.51	277
8/20/2011 8:00	4.65	268.7
8/20/2011 9:00	4.84	273.6
8/20/2011 10:00	4.87	278.9
8/20/2011 11:00	4.30	283.7
8/20/2011 12:00	3.70	263.9
8/20/2011 13:00	3.04	263.4
8/20/2011 14:00	3.16	311.9
8/20/2011 15:00	3.08	337
8/20/2011 16:00	1.29	335.2
8/20/2011 17:00	3.64	253.4
8/20/2011 18:00	5.21	249.1
8/20/2011 19:00	4.03	253.1
8/20/2011 20:00	3.05	258.6
8/20/2011 21:00	2.91	293.9
8/20/2011 22:00	2.50	13.14
8/20/2011 23:00	3.06	32.65
8/21/2011 0:00	0.78	133.5
8/21/2011 1:00	2.90	37.73
8/21/2011 2:00	2.28	32.21
8/21/2011 3:00	1.14	38.34
8/21/2011 4:00	0.66	60.7
8/21/2011 5:00	1.99	134.8
8/21/2011 6:00	2.96	132
8/21/2011 7:00	4.44	119.1
8/21/2011 8:00	4.49	114
8/21/2011 9:00	5.46	108.5
8/21/2011 10:00	6.08	105.3
8/21/2011 11:00	8.21	98.4
8/21/2011 12:00	8.91	95.8
8/21/2011 13:00	9.16	96.4

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
8/21/2011 14:00	9.48	106.6
8/21/2011 15:00	10.11	108.3
8/21/2011 16:00	11.69	110.7
8/21/2011 17:00	12.38	105
8/21/2011 18:00	11.06	118
8/21/2011 19:00	10.66	111.9
8/21/2011 20:00	10.06	107.7
8/21/2011 21:00	9.85	93.3
8/21/2011 22:00	10.97	88.3
8/21/2011 23:00	9.43	96.7
8/22/2011 0:00	9.42	97.8
8/22/2011 1:00	9.33	91.7
8/22/2011 2:00	9.94	96.2
8/22/2011 3:00	9.58	95.8
8/22/2011 4:00	9.55	93.9
8/22/2011 5:00	9.68	91.4
8/22/2011 6:00	9.68	91.9
8/22/2011 7:00	11.19	92.7
8/22/2011 8:00	12.03	88.6
8/22/2011 9:00	13.43	88.1
8/22/2011 10:00	14.05	86
8/22/2011 11:00	15.11	88
8/22/2011 12:00	15.50	97.5
8/22/2011 13:00	16.96	93.7
8/22/2011 14:00	18.81	95.4
8/22/2011 15:00	20.26	96.7
8/22/2011 16:00	19.48	100.7
8/22/2011 17:00	18.23	99.1
8/22/2011 18:00	18.70	101.7
8/22/2011 19:00	18.10	103.4
8/22/2011 20:00	16.55	102.1
8/22/2011 21:00	15.58	101.8
8/22/2011 22:00	17.27	102.2
8/22/2011 23:00	17.15	104.1
8/23/2011 0:00	15.65	105.9
8/23/2011 1:00	14.64	109.2
8/23/2011 2:00	13.25	111.1
8/23/2011 3:00	13.44	114.9
8/23/2011 4:00	12.87	104.4
8/23/2011 5:00	12.97	106.6
8/23/2011 6:00	12.79	108
8/23/2011 7:00	12.72	109.2
8/23/2011 8:00	12.76	108.6
8/23/2011 9:00	12.96	110.3
8/23/2011 10:00	12.63	108.2
8/23/2011 11:00	14.22	112.7
8/23/2011 12:00	13.72	113.1
8/23/2011 13:00	12.96	107.6
8/23/2011 14:00	13.71	102.4
8/23/2011 15:00	14.13	98.6
8/23/2011 16:00	14.71	92.9
8/23/2011 17:00	14.87	99.4
8/23/2011 18:00	15.02	101.1
8/23/2011 19:00	15.11	102.1
8/23/2011 20:00	14.56	104.7
8/23/2011 21:00	12.35	98.6
8/23/2011 22:00	12.20	105.1
8/23/2011 23:00	12.00	102.9
8/24/2011 0:00	12.07	101.3
8/24/2011 1:00	10.54	100.2
8/24/2011 2:00	7.75	116.2
8/24/2011 3:00	5.27	135.5
8/24/2011 4:00	4.12	155
8/24/2011 5:00	4.98	156.5
8/24/2011 6:00	6.61	172.9
8/24/2011 7:00	6.70	171.6
8/24/2011 8:00	5.46	161.1
8/24/2011 9:00	5.39	159.4
8/24/2011 10:00	5.00	147.5
8/24/2011 11:00	5.26	161.5

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
8/24/2011 12:00	5.53	197.5
8/24/2011 13:00	5.51	183.6
8/24/2011 14:00	4.64	170.8
8/24/2011 15:00	5.63	190.2
8/24/2011 16:00	5.93	186.4
8/24/2011 17:00	3.54	204.5
8/24/2011 18:00	2.76	346
8/24/2011 19:00	1.68	304.1
8/24/2011 20:00	1.01	348.8
8/24/2011 21:00	0.32	248.3
8/24/2011 22:00	0.34	155.1
8/24/2011 23:00	0.50	112.4
8/25/2011 0:00	1.31	139.8
8/25/2011 1:00	1.44	157.6
8/25/2011 2:00	1.64	140.7
8/25/2011 3:00	1.55	134.7
8/25/2011 4:00	1.46	137.5
8/25/2011 5:00	0.76	110
8/25/2011 6:00	1.15	299.3
8/25/2011 7:00	1.48	170.8
8/25/2011 8:00	2.41	56.53
8/25/2011 9:00	2.63	139.2
8/25/2011 10:00	2.51	63.56
8/25/2011 11:00	2.03	64.51
8/25/2011 12:00	1.26	66.81
8/25/2011 13:00	1.19	60.74
8/25/2011 14:00	2.19	14.84
8/25/2011 15:00	2.86	25.18
8/25/2011 16:00	5.95	5.674
8/25/2011 17:00	5.97	25.86
8/25/2011 18:00	4.77	20.15
8/25/2011 19:00	4.92	24.6
8/25/2011 20:00	4.03	31.4
8/25/2011 21:00	3.48	21.08
8/25/2011 22:00	1.68	353.1
8/25/2011 23:00	1.92	266.2
8/26/2011 0:00	2.55	267.7
8/26/2011 1:00	3.19	277.7
8/26/2011 2:00	3.33	298.3
8/26/2011 3:00	3.77	286.6
8/26/2011 4:00	5.58	300.5
8/26/2011 5:00	5.52	319
8/26/2011 6:00	5.44	315.5
8/26/2011 7:00	5.43	307.3
8/26/2011 8:00	6.21	306
8/26/2011 9:00	5.56	308.8
8/26/2011 10:00	5.33	305.5
8/26/2011 11:00	5.42	308.8
8/26/2011 12:00	5.50	310.4
8/26/2011 13:00	5.91	306.5
8/26/2011 14:00	5.49	302.7
8/26/2011 15:00	4.83	314.6
8/26/2011 16:00	4.33	314.3
8/26/2011 17:00	3.89	319.6
8/26/2011 18:00	2.66	283.1
8/26/2011 19:00	3.68	264.4
8/26/2011 20:00	6.19	264.1
8/26/2011 21:00	8.40	256.9
8/26/2011 22:00	11.18	244.7
8/26/2011 23:00	11.63	242.4
8/27/2011 0:00	12.13	241.8
8/27/2011 1:00	10.96	244.8
8/27/2011 2:00	11.52	241.8
8/27/2011 3:00	9.04	246.3
8/27/2011 4:00	8.27	249.5
8/27/2011 5:00	6.39	254.5
8/27/2011 6:00	5.57	260
8/27/2011 7:00	3.76	280
8/27/2011 8:00	6.10	279.8
8/27/2011 9:00	7.43	285.5

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
8/27/2011 10:00	6.89	272.6
8/27/2011 11:00	7.06	274.7
8/27/2011 12:00	7.25	266.8
8/27/2011 13:00	8.29	255.2
8/27/2011 14:00	8.72	250.5
8/27/2011 15:00	8.19	250.8
8/27/2011 16:00	8.70	258.5
8/27/2011 17:00	6.20	278.3
8/27/2011 18:00	6.63	276.9
8/27/2011 19:00	6.84	267
8/27/2011 20:00	6.74	261.8
8/27/2011 21:00	7.15	269.3
8/27/2011 22:00	6.34	279.6
8/27/2011 23:00	6.09	274.9
8/28/2011 0:00	7.13	269.2
8/28/2011 1:00	6.48	266.7
8/28/2011 2:00	6.91	272.7
8/28/2011 3:00	6.86	277.5
8/28/2011 4:00	6.21	272.2
8/28/2011 5:00	7.09	272.7
8/28/2011 6:00	7.21	276.4
8/28/2011 7:00	6.72	281
8/28/2011 8:00	5.89	283.8
8/28/2011 9:00	5.57	283.6
8/28/2011 10:00	5.53	306.6
8/28/2011 11:00	6.29	330.3
8/28/2011 12:00	7.81	334.8
8/28/2011 13:00	7.23	339.3
8/28/2011 14:00	4.59	304.5
8/28/2011 15:00	4.73	277.9
8/28/2011 16:00	5.05	266.1
8/28/2011 17:00	4.04	275
8/28/2011 18:00	6.39	275.7
8/28/2011 19:00	6.28	276.1
8/28/2011 20:00	6.40	279.2
8/28/2011 21:00	6.47	277.1
8/28/2011 22:00	5.21	280.8
8/28/2011 23:00	3.88	313.2
8/29/2011 0:00	2.39	279.3
8/29/2011 1:00	3.47	279.9
8/29/2011 2:00	5.29	272.3
8/29/2011 3:00	7.66	269.4
8/29/2011 4:00	6.77	268.2
8/29/2011 5:00	6.84	271.1
8/29/2011 6:00	6.90	271.5
8/29/2011 7:00	6.92	258
8/29/2011 8:00	7.39	281.6
8/29/2011 9:00	4.55	288.8
8/29/2011 10:00	5.76	283.9
8/29/2011 11:00	8.26	281.8
8/29/2011 12:00	9.39	273.2
8/29/2011 13:00	8.88	281.2
8/29/2011 14:00	8.35	275.8
8/29/2011 15:00	7.99	274.2
8/29/2011 16:00	7.17	270.8
8/29/2011 17:00	6.13	268.7
8/29/2011 18:00	5.16	271.8
8/29/2011 19:00	4.96	253.5
8/29/2011 20:00	4.61	249.6
8/29/2011 21:00	4.68	247
8/29/2011 22:00	3.61	256.2
8/29/2011 23:00	3.20	279.8
8/30/2011 0:00	2.91	278.5
8/30/2011 1:00	3.60	273.6
8/30/2011 2:00	3.48	267.4
8/30/2011 3:00	1.82	300.1
8/30/2011 4:00	1.33	311.8
8/30/2011 5:00	0.57	335.6
8/30/2011 6:00	0.93	344.7
8/30/2011 7:00	0.74	343.2

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
8/30/2011 8:00	1.03	65.04
8/30/2011 9:00	1.81	85.9
8/30/2011 10:00	4.11	72.25
8/30/2011 11:00	3.02	61.63
8/30/2011 12:00	2.48	43.84
8/30/2011 13:00	1.61	51.89
8/30/2011 14:00	3.40	8.77
8/30/2011 15:00	4.18	0.335
8/30/2011 16:00	3.63	359.9
8/30/2011 17:00	3.10	28.1
8/30/2011 18:00	3.19	37.26
8/30/2011 19:00	4.49	71.72
8/30/2011 20:00	4.14	80.9
8/30/2011 21:00	3.73	92
8/30/2011 22:00	3.41	100.4
8/30/2011 23:00	2.90	127.7
8/31/2011 0:00	3.33	141.7
8/31/2011 1:00	3.20	136.6
8/31/2011 2:00	2.89	130.9
8/31/2011 3:00	3.89	140
8/31/2011 4:00	2.29	136.2
8/31/2011 5:00	1.63	146.6
8/31/2011 6:00	1.03	166.2
8/31/2011 7:00	1.55	136.4
8/31/2011 8:00	0.87	145.5
8/31/2011 9:00	0.43	31.07
8/31/2011 10:00	1.13	19.41
8/31/2011 11:00	1.71	359.5
8/31/2011 12:00	3.56	5.629
8/31/2011 13:00	3.57	27.32
8/31/2011 14:00	4.37	66.91
8/31/2011 15:00	4.36	69.24
8/31/2011 16:00	4.34	72.48
8/31/2011 17:00	4.74	82.9
8/31/2011 18:00	3.89	111.3
8/31/2011 19:00	3.65	119
8/31/2011 20:00	6.26	98.4
8/31/2011 21:00	7.61	87.4
8/31/2011 22:00	7.77	88.3
8/31/2011 23:00	6.93	89
9/1/2011 0:00	4.01	103.1
9/1/2011 1:00	4.47	98
9/1/2011 2:00	3.82	111.9
9/1/2011 3:00	3.88	133.2
9/1/2011 4:00	3.84	131.4
9/1/2011 5:00	4.69	123.2
9/1/2011 6:00	4.69	99.4
9/1/2011 7:00	5.68	94
9/1/2011 8:00	5.05	92.6
9/1/2011 9:00	4.74	90.2
9/1/2011 10:00	5.37	74.33
9/1/2011 11:00	4.27	73.81
9/1/2011 12:00	4.88	71.05
9/1/2011 13:00	4.29	75.84
9/1/2011 14:00	4.12	62.19
9/1/2011 15:00	3.85	53.84
9/1/2011 16:00	3.57	74.15
9/1/2011 17:00	5.17	58.52
9/1/2011 18:00	6.23	65.15
9/1/2011 19:00	5.50	68.47
9/1/2011 20:00	6.06	74.1
9/1/2011 21:00	4.94	85.3
9/1/2011 22:00	4.25	73.41
9/1/2011 23:00	3.56	52.13
9/2/2011 0:00	3.18	71.04
9/2/2011 1:00	3.71	64.39
9/2/2011 2:00	2.82	110.4
9/2/2011 3:00	2.95	101.2
9/2/2011 4:00	2.20	121.6
9/2/2011 5:00	3.08	100.2

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)	Date/Time	Wind Speed (m/s)	Wind Direction (degrees)	Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
9/2/2011 6:00	2.53	106.7	9/5/2011 4:00	9.51	80.8	9/8/2011 2:00	15.35	23.88
9/2/2011 7:00	2.48	121.8	9/5/2011 5:00	8.41	85.6	9/8/2011 3:00	14.19	22.72
9/2/2011 8:00	2.60	115.4	9/5/2011 6:00	7.84	85.5	9/8/2011 4:00	12.64	22.4
9/2/2011 9:00	3.36	125.9	9/5/2011 7:00	9.19	81.9	9/8/2011 5:00	10.01	16.41
9/2/2011 10:00	3.33	117.7	9/5/2011 8:00	9.38	84.7	9/8/2011 6:00	9.66	14.64
9/2/2011 11:00	3.58	105.2	9/5/2011 9:00	7.91	84.5	9/8/2011 7:00	8.65	18.99
9/2/2011 12:00	4.08	90.2	9/5/2011 10:00	7.87	64.94	9/8/2011 8:00	8.66	24.75
9/2/2011 13:00	2.98	101.6	9/5/2011 11:00	8.27	65.5	9/8/2011 9:00	5.53	14.34
9/2/2011 14:00	2.60	100.1	9/5/2011 12:00	8.47	64.01	9/8/2011 10:00	5.13	22.17
9/2/2011 15:00	2.46	98.3	9/5/2011 13:00	7.95	63.52	9/8/2011 11:00	5.70	30.09
9/2/2011 16:00	3.32	100.1	9/5/2011 14:00	7.75	59.7	9/8/2011 12:00	3.87	14.14
9/2/2011 17:00	3.57	106.2	9/5/2011 15:00	7.19	28.46	9/8/2011 13:00	3.90	5.797
9/2/2011 18:00	4.38	108.6	9/5/2011 16:00	7.20	52.81	9/8/2011 14:00	3.36	30.8
9/2/2011 19:00	5.24	108.7	9/5/2011 17:00	7.95	75.8	9/8/2011 15:00	2.67	79.79
9/2/2011 20:00	5.90	113.6	9/5/2011 18:00	6.54	75.6	9/8/2011 16:00	3.12	105.2
9/2/2011 21:00	5.18	125.9	9/5/2011 19:00	4.88	78.76	9/8/2011 17:00	4.49	105.9
9/2/2011 22:00	5.89	127.7	9/5/2011 20:00	3.38	70.33	9/8/2011 18:00	5.39	114.4
9/2/2011 23:00	5.37	133.1	9/5/2011 21:00	2.79	85.2	9/8/2011 19:00	6.12	117.3
9/3/2011 0:00	5.15	134.1	9/5/2011 22:00	3.45	59.47	9/8/2011 20:00	5.89	112.1
9/3/2011 1:00	5.82	136.5	9/5/2011 23:00	2.47	77.78	9/8/2011 21:00	5.51	124.1
9/3/2011 2:00	5.62	146	9/6/2011 0:00	1.21	50.14	9/8/2011 22:00	6.41	122.9
9/3/2011 3:00	5.27	138.8	9/6/2011 1:00	1.89	29.34	9/8/2011 23:00	6.70	118.5
9/3/2011 4:00	5.30	137.4	9/6/2011 2:00	2.15	24.84	9/9/2011 0:00	7.59	115.3
9/3/2011 5:00	5.14	138.9	9/6/2011 3:00	1.42	19.14	9/9/2011 1:00	8.13	116.8
9/3/2011 6:00	6.46	132.5	9/6/2011 4:00	0.74	340.1	9/9/2011 2:00	6.89	121.3
9/3/2011 7:00	5.57	129.3	9/6/2011 5:00	1.15	92.2	9/9/2011 3:00	6.49	122.7
9/3/2011 8:00	5.68	131	9/6/2011 6:00	2.15	77.05	9/9/2011 4:00	6.22	119.6
9/3/2011 9:00	5.83	126.7	9/6/2011 7:00	2.17	110.1	9/9/2011 5:00	4.96	111.9
9/3/2011 10:00	5.95	124.8	9/6/2011 8:00	3.35	109.1	9/9/2011 6:00	4.34	112.4
9/3/2011 11:00	4.51	133.1	9/6/2011 9:00	4.27	109.5	9/9/2011 7:00	3.88	118.1
9/3/2011 12:00	5.41	130.4	9/6/2011 10:00	4.93	119.6	9/9/2011 8:00	3.14	121.3
9/3/2011 13:00	5.44	151.7	9/6/2011 11:00	5.03	114.1	9/9/2011 9:00	2.71	116.7
9/3/2011 14:00	5.97	137.7	9/6/2011 12:00	6.13	117.9	9/9/2011 10:00	1.94	94.9
9/3/2011 15:00	7.19	138.9	9/6/2011 13:00	7.29	121.6	9/9/2011 11:00	1.05	79.58
9/3/2011 16:00	6.38	131.4	9/6/2011 14:00	7.93	120.5	9/9/2011 12:00	1.96	355.8
9/3/2011 17:00	4.39	128.2	9/6/2011 15:00	8.51	119.6	9/9/2011 13:00	2.76	344.2
9/3/2011 18:00	3.90	139.9	9/6/2011 16:00	9.14	116.5	9/9/2011 14:00	2.09	343.1
9/3/2011 19:00	2.69	196.6	9/6/2011 17:00	9.66	117.4	9/9/2011 15:00	1.32	322.3
9/3/2011 20:00	1.08	305	9/6/2011 18:00	10.24	119.6	9/9/2011 16:00	2.40	339.1
9/3/2011 21:00	2.65	257.8	9/6/2011 19:00	11.45	122.4	9/9/2011 17:00	3.57	358.5
9/3/2011 22:00	2.23	258.6	9/6/2011 20:00	10.80	111.8	9/9/2011 18:00	3.36	0.898
9/3/2011 23:00	2.54	271.9	9/6/2011 21:00	9.34	112.6	9/9/2011 19:00	1.47	352.2
9/4/2011 0:00	4.41	259	9/6/2011 22:00	9.18	109.2	9/9/2011 20:00	2.35	58.46
9/4/2011 1:00	4.84	261	9/6/2011 23:00	9.17	115.6	9/9/2011 21:00	3.42	60.24
9/4/2011 2:00	3.85	267.6	9/7/2011 0:00	9.43	110	9/9/2011 22:00	2.54	47.27
9/4/2011 3:00	2.75	295.8	9/7/2011 1:00	8.47	116.9	9/9/2011 23:00	2.48	45.05
9/4/2011 4:00	2.17	320.1	9/7/2011 2:00	7.22	108.4	9/10/2011 0:00	0.83	23.93
9/4/2011 5:00	4.08	358	9/7/2011 3:00	6.43	109.9	9/10/2011 1:00	2.05	65.46
9/4/2011 6:00	5.84	14.93	9/7/2011 4:00	9.25	133.5	9/10/2011 2:00	2.45	37.5
9/4/2011 7:00	5.84	23.3	9/7/2011 5:00	11.43	121.5	9/10/2011 3:00	2.73	4.763
9/4/2011 8:00	4.82	37.96	9/7/2011 6:00	13.07	116.2	9/10/2011 4:00	4.76	6.644
9/4/2011 9:00	3.91	55.39	9/7/2011 7:00	15.55	104.5	9/10/2011 5:00	3.54	2.589
9/4/2011 10:00	4.64	78.86	9/7/2011 8:00	16.07	108.4	9/10/2011 6:00	3.66	349.4
9/4/2011 11:00	4.79	94.4	9/7/2011 9:00	18.86	105.4	9/10/2011 7:00	2.89	352.4
9/4/2011 12:00	6.23	89.6	9/7/2011 10:00	20.74	92.1	9/10/2011 8:00	3.52	350.9
9/4/2011 13:00	5.17	100.9	9/7/2011 11:00	19.82	98.1	9/10/2011 9:00	2.68	334.4
9/4/2011 14:00	3.21	88	9/7/2011 12:00	15.66	106	9/10/2011 10:00	2.63	319.1
9/4/2011 15:00	4.35	87.9	9/7/2011 13:00	9.96	109.1	9/10/2011 11:00	2.08	305.7
9/4/2011 16:00	4.98	51.96	9/7/2011 14:00	3.53	124.8	9/10/2011 12:00	3.51	287.8
9/4/2011 17:00	6.58	49.56	9/7/2011 15:00	3.67	247.4	9/10/2011 13:00	2.39	300.3
9/4/2011 18:00	9.86	76.73	9/7/2011 16:00	7.05	256.3	9/10/2011 14:00	3.93	259
9/4/2011 19:00	10.17	87	9/7/2011 17:00	8.58	250.9	9/10/2011 15:00	5.90	258.8
9/4/2011 20:00	9.21	87.9	9/7/2011 18:00	8.19	251.8	9/10/2011 16:00	7.94	253.9
9/4/2011 21:00	9.20	85.4	9/7/2011 19:00	5.35	278.9	9/10/2011 17:00	9.73	243.3
9/4/2011 22:00	8.79	89.8	9/7/2011 20:00	4.59	304.7	9/10/2011 18:00	8.25	267.3
9/4/2011 23:00	8.49	87.9	9/7/2011 21:00	7.55	346.2	9/10/2011 19:00	8.60	265.4
9/5/2011 0:00	8.69	91	9/7/2011 22:00	11.33	13.45	9/10/2011 20:00	9.08	271.8
9/5/2011 1:00	7.39	91.4	9/7/2011 23:00	17.70	25.4	9/10/2011 21:00	11.36	285.7
9/5/2011 2:00	7.57	87.9	9/8/2011 0:00	19.16	27.36	9/10/2011 22:00	10.95	294.8
9/5/2011 3:00	8.42	85.9	9/8/2011 1:00	16.68	26.75	9/10/2011 23:00	10.77	300.8

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
9/11/2011 0:00	10.22	306.9
9/11/2011 1:00	12.07	310.2
9/11/2011 2:00	12.01	316.2
9/11/2011 3:00	12.00	301.2
9/11/2011 4:00	12.97	310
9/11/2011 5:00	10.71	300
9/11/2011 6:00	10.88	297.9
9/11/2011 7:00	10.01	292.2
9/11/2011 8:00	8.47	284.9
9/11/2011 9:00	8.54	284.8
9/11/2011 10:00	9.76	286.9
9/11/2011 11:00	9.77	279
9/11/2011 12:00	9.10	274.5
9/11/2011 13:00	8.95	271.9
9/11/2011 14:00	10.27	272.5
9/11/2011 15:00	11.46	275.7
9/11/2011 16:00	9.57	274.7
9/11/2011 17:00	9.23	273.1
9/11/2011 18:00	9.16	274.4
9/11/2011 19:00	9.40	280.8
9/11/2011 20:00	7.72	288.3
9/11/2011 21:00	7.37	284.6
9/11/2011 22:00	8.30	300.9
9/11/2011 23:00	9.45	327.8
9/12/2011 0:00	8.62	332.1
9/12/2011 1:00	7.70	332.9
9/12/2011 2:00	7.22	340.5
9/12/2011 3:00	6.89	337.9
9/12/2011 4:00	7.34	333.6
9/12/2011 5:00	8.56	335.8
9/12/2011 6:00	7.82	329.3
9/12/2011 7:00	8.83	319.8
9/12/2011 8:00	7.88	323.7
9/12/2011 9:00	6.98	320
9/12/2011 10:00	6.45	311.8
9/12/2011 11:00	6.18	309
9/12/2011 12:00	6.35	308.3
9/12/2011 13:00	6.14	307.9
9/12/2011 14:00	5.34	311.2
9/12/2011 15:00	5.61	317.9
9/12/2011 16:00	5.38	312.9
9/12/2011 17:00	5.72	323.1
9/12/2011 18:00	7.40	318.2
9/12/2011 19:00	6.20	309.3
9/12/2011 20:00	5.86	306.6
9/12/2011 21:00	6.65	305.2
9/12/2011 22:00	6.57	298.7
9/12/2011 23:00	6.95	289.9
9/13/2011 0:00	6.96	285.3
9/13/2011 1:00	7.58	275.1
9/13/2011 2:00	7.01	274
9/13/2011 3:00	6.46	269.9
9/13/2011 4:00	8.58	259.6
9/13/2011 5:00	9.76	256.4
9/13/2011 6:00	10.08	250.7
9/13/2011 7:00	10.25	250.1
9/13/2011 8:00	12.07	244.4
9/13/2011 9:00	12.37	247.7
9/13/2011 10:00	12.34	250.4
9/13/2011 11:00	12.60	252.2
9/13/2011 12:00	11.80	252.8
9/13/2011 13:00	12.70	248.9
9/13/2011 14:00	12.64	246.1
9/13/2011 15:00	11.77	246.3
9/13/2011 16:00	13.49	235.8
9/13/2011 17:00	13.83	237.7
9/13/2011 18:00	12.29	238.4
9/13/2011 19:00	10.20	242.7
9/13/2011 20:00	9.01	248.7
9/13/2011 21:00	8.29	244.5

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
9/13/2011 22:00	5.09	207.9
9/13/2011 23:00	6.22	174.7
9/14/2011 0:00	7.31	183.2
9/14/2011 1:00	7.62	189.9
9/14/2011 2:00	8.66	196
9/14/2011 3:00	8.49	190
9/14/2011 4:00	7.03	177.5
9/14/2011 5:00	9.97	198.4
9/14/2011 6:00	11.57	203.3
9/14/2011 7:00	10.46	190.9
9/14/2011 8:00	10.74	191
9/14/2011 9:00	10.49	192.3
9/14/2011 10:00	11.37	199.1
9/14/2011 11:00	9.94	203
9/14/2011 12:00	10.03	209.4
9/14/2011 13:00	9.33	219.1
9/14/2011 14:00	8.52	226.1
9/14/2011 15:00	9.90	232.6
9/14/2011 16:00	10.59	232.4
9/14/2011 17:00	10.52	231.7
9/14/2011 18:00	7.88	226.5
9/14/2011 19:00	10.44	231.5
9/14/2011 20:00	10.30	255.2
9/14/2011 21:00	9.75	259.8
9/14/2011 22:00	8.91	265.5
9/14/2011 23:00	6.98	267.3
9/15/2011 0:00	6.48	275.7
9/15/2011 1:00	5.85	282.3
9/15/2011 2:00	4.56	288.1
9/15/2011 3:00	3.94	311.6
9/15/2011 4:00	3.68	334
9/15/2011 5:00	3.98	332.5
9/15/2011 6:00	8.79	5.573
9/15/2011 7:00	9.60	10.68
9/15/2011 8:00	8.90	21.95
9/15/2011 9:00	9.05	29.93
9/15/2011 10:00	7.83	35.19
9/15/2011 11:00	7.00	35.34
9/15/2011 12:00	6.80	25.33
9/15/2011 13:00	6.17	14.99
9/15/2011 14:00	5.96	16.06
9/15/2011 15:00	5.17	27.61
9/15/2011 16:00	5.02	9.28
9/15/2011 17:00	4.56	6.806
9/15/2011 18:00	4.89	19.1
9/15/2011 19:00	5.24	24.73
9/15/2011 20:00	4.21	28.02
9/15/2011 21:00	5.11	31.91
9/15/2011 22:00	4.99	43.32
9/15/2011 23:00	5.29	57.82
9/16/2011 0:00	5.54	60.26
9/16/2011 1:00	5.04	59.21
9/16/2011 2:00	4.80	62.96
9/16/2011 3:00	5.51	66.57
9/16/2011 4:00	5.35	73.62
9/16/2011 5:00	5.50	75.36
9/16/2011 6:00	5.40	78.48
9/16/2011 7:00	6.89	76.64
9/16/2011 8:00	7.88	86.8
9/16/2011 9:00	8.13	81.9
9/16/2011 10:00	8.52	93.4
9/16/2011 11:00	8.93	109.4
9/16/2011 12:00	9.47	110.4
9/16/2011 13:00	9.82	108.5
9/16/2011 14:00	9.46	113.8
9/16/2011 15:00	9.94	115.5
9/16/2011 16:00	10.76	116.9
9/16/2011 17:00	10.71	116.9
9/16/2011 18:00	10.42	115.6
9/16/2011 19:00	9.97	118.1

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
9/16/2011 20:00	8.84	113.7
9/16/2011 21:00	8.93	110.8
9/16/2011 22:00	8.79	111.2
9/16/2011 23:00	8.00	115.9
9/17/2011 0:00	7.91	116
9/17/2011 1:00	7.51	108.6
9/17/2011 2:00	8.91	102.4
9/17/2011 3:00	8.18	95.7
9/17/2011 4:00	7.67	91.4
9/17/2011 5:00	8.29	92.4
9/17/2011 6:00	8.28	89
9/17/2011 7:00	9.20	76.93
9/17/2011 8:00	9.84	78.9
9/17/2011 9:00	9.28	76.97
9/17/2011 10:00	9.10	75.54
9/17/2011 11:00	9.97	71.07
9/17/2011 12:00	10.28	73.77
9/17/2011 13:00	8.83	72.13
9/17/2011 14:00	8.11	72.13
9/17/2011 15:00	8.20	71.17
9/17/2011 16:00	8.54	68.56
9/17/2011 17:00	8.23	69.48
9/17/2011 18:00	8.76	68.41
9/17/2011 19:00	9.10	56.76
9/17/2011 20:00	7.32	50.48
9/17/2011 21:00	7.95	49.43
9/17/2011 22:00	8.43	50.21
9/17/2011 23:00	7.95	49.49
9/18/2011 0:00	8.03	43.77
9/18/2011 1:00	8.07	42.11
9/18/2011 2:00	6.06	46.55
9/18/2011 3:00	6.33	39.49
9/18/2011 4:00	5.21	32.54
9/18/2011 5:00	4.65	38.75
9/18/2011 6:00	3.65	46.94
9/18/2011 7:00	3.07	39.38
9/18/2011 8:00	3.48	51.46
9/18/2011 9:00	2.50	54.42
9/18/2011 10:00	1.83	108.7
9/18/2011 11:00	0.69	122.2
9/18/2011 12:00	1.25	309.7
9/18/2011 13:00	1.11	12.21
9/18/2011 14:00	1.83	207.2
9/18/2011 15:00	1.53	243.6
9/18/2011 16:00	1.44	154.3
9/18/2011 17:00	1.71	216.3
9/18/2011 18:00	3.05	145.8
9/18/2011 19:00	3.16	163.5
9/18/2011 20:00	2.62	123.7
9/18/2011 21:00	3.61	134.1
9/18/2011 22:00	4.14	149.1
9/18/2011 23:00	3.93	154.1
9/19/2011 0:00	5.57	158.4
9/19/2011 1:00	5.13	157.9
9/19/2011 2:00	6.05	151.8
9/19/2011 3:00	6.52	149.8
9/19/2011 4:00	6.39	149.5
9/19/2011 5:00	6.80	152.4
9/19/2011 6:00	6.53	149.7
9/19/2011 7:00	6.74	145.3
9/19/2011 8:00	6.68	145
9/19/2011 9:00	7.64	148.1
9/19/2011 10:00	7.68	144.8
9/19/2011 11:00	7.91	146.6
9/19/2011 12:00	7.45	143.4
9/19/2011 13:00	7.63	128
9/19/2011 14:00	7.76	125.7
9/19/2011 15:00	7.64	123.5
9/19/2011 16:00	7.05	122.2
9/19/2011 17:00	6.81	118.5

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
9/19/2011 18:00	5.54	114.7
9/19/2011 19:00	5.95	111.2
9/19/2011 20:00	5.95	107.1
9/19/2011 21:00	5.62	112.6
9/19/2011 22:00	5.59	111.3
9/19/2011 23:00	5.20	107.2
9/20/2011 0:00	4.81	116.9
9/20/2011 1:00	4.62	130.6
9/20/2011 2:00	3.96	123
9/20/2011 3:00	3.93	158.3
9/20/2011 4:00	3.24	163.3
9/20/2011 5:00	3.20	168.6
9/20/2011 6:00	3.02	145.6
9/20/2011 7:00	3.30	178.8
9/20/2011 8:00	5.67	189.3
9/20/2011 9:00	6.80	185.7
9/20/2011 10:00	6.54	166.2
9/20/2011 11:00	8.38	181.1
9/20/2011 12:00	6.57	165.4
9/20/2011 13:00	8.61	174.5
9/20/2011 14:00	5.73	199.4
9/20/2011 15:00	7.03	183.4
9/20/2011 16:00	8.96	185.4
9/20/2011 17:00	5.91	189.8
9/20/2011 18:00	3.94	156.8
9/20/2011 19:00	4.25	137.7
9/20/2011 20:00	5.82	129.4
9/20/2011 21:00	6.50	131.7
9/20/2011 22:00	7.04	125.6
9/20/2011 23:00	7.47	132.9
9/21/2011 0:00	6.95	137.9
9/21/2011 1:00	6.89	138.3
9/21/2011 2:00	6.49	142.7
9/21/2011 3:00	6.78	144.4
9/21/2011 4:00	8.79	155.7
9/21/2011 5:00	8.70	147.3
9/21/2011 6:00	10.07	148
9/21/2011 7:00	8.11	138.3
9/21/2011 8:00	11.89	150.7
9/21/2011 9:00	10.69	154.3
9/21/2011 10:00	11.23	152.3
9/21/2011 11:00	12.56	144.8
9/21/2011 12:00	10.24	148.1
9/21/2011 13:00	9.01	156.3
9/21/2011 14:00	11.83	175.3
9/21/2011 15:00	11.60	176.2
9/21/2011 16:00	9.87	180.2
9/21/2011 17:00	13.65	219.2
9/21/2011 18:00	12.20	241.1
9/21/2011 19:00	8.53	245.2
9/21/2011 20:00	9.90	239.1
9/21/2011 21:00	8.84	234.1
9/21/2011 22:00	9.03	222.4
9/21/2011 23:00	11.84	236.9
9/22/2011 0:00	10.41	244.2
9/22/2011 1:00	6.96	259.3
9/22/2011 2:00	2.16	228.7
9/22/2011 3:00	1.99	188.2
9/22/2011 4:00	2.49	142.2
9/22/2011 5:00	3.49	138.3
9/22/2011 6:00	2.11	135.1
9/22/2011 7:00	3.46	132
9/22/2011 8:00	5.95	131.8
9/22/2011 9:00	7.53	113.2
9/22/2011 10:00	6.91	112.2
9/22/2011 11:00	8.29	111
9/22/2011 12:00	9.21	108.7
9/22/2011 13:00	6.19	105.4
9/22/2011 14:00	6.32	115.5
9/22/2011 15:00	5.62	118.4

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
9/22/2011 16:00	4.38	140
9/22/2011 17:00	4.49	161.4
9/22/2011 18:00	7.53	179.9
9/22/2011 19:00	11.09	206.8
9/22/2011 20:00	11.34	220.6
9/22/2011 21:00	14.11	232.3
9/22/2011 22:00	14.23	241.2
9/22/2011 23:00	9.21	293.7
9/23/2011 0:00	11.41	315.3
9/23/2011 1:00	12.74	302.5
9/23/2011 2:00	15.85	293.3
9/23/2011 3:00	14.32	286.5
9/23/2011 4:00	13.99	283.4
9/23/2011 5:00	14.34	280
9/23/2011 6:00	14.32	278.3
9/23/2011 7:00	14.30	272.5
9/23/2011 8:00	14.43	271.2
9/23/2011 9:00	14.68	269.6
9/23/2011 10:00	14.38	270.9
9/23/2011 11:00	13.79	270.2
9/23/2011 12:00	12.31	271
9/23/2011 13:00	12.05	271.3
9/23/2011 14:00	11.85	272.7
9/23/2011 15:00	10.02	262.5
9/23/2011 16:00	11.07	264.8
9/23/2011 17:00	10.50	268
9/23/2011 18:00	10.66	270.8
9/23/2011 19:00	10.58	272.8
9/23/2011 20:00	9.09	268.3
9/23/2011 21:00	8.76	258.3
9/23/2011 22:00	7.77	260.3
9/23/2011 23:00	7.78	266
9/24/2011 0:00	8.94	272.5
9/24/2011 1:00	8.23	269.2
9/24/2011 2:00	9.33	270.3
9/24/2011 3:00	10.15	270.8
9/24/2011 4:00	11.41	271.8
9/24/2011 5:00	11.81	272.9
9/24/2011 6:00	12.87	272.9
9/24/2011 7:00	12.38	273.8
9/24/2011 8:00	11.80	272.6
9/24/2011 9:00	11.54	271.6
9/24/2011 10:00	10.97	272.4
9/24/2011 11:00	10.95	272.9
9/24/2011 12:00	10.93	271.7
9/24/2011 13:00	10.44	273.8
9/24/2011 14:00	10.54	273
9/24/2011 15:00	8.93	273.3
9/24/2011 16:00	9.58	272.1
9/24/2011 17:00	10.46	269.5
9/24/2011 18:00	8.78	268.7
9/24/2011 19:00	9.57	272.5
9/24/2011 20:00	8.72	268.9
9/24/2011 21:00	8.42	258
9/24/2011 22:00	9.10	266.4
9/24/2011 23:00	8.88	261.3
9/25/2011 0:00	8.89	264.8
9/25/2011 1:00	9.76	264.5
9/25/2011 2:00	9.58	258.9
9/25/2011 3:00	9.37	261.3
9/25/2011 4:00	10.29	271.2
9/25/2011 5:00	11.83	273.2
9/25/2011 6:00	12.36	270.9
9/25/2011 7:00	10.05	271.6
9/25/2011 8:00	8.95	273.5
9/25/2011 9:00	8.41	275.1
9/25/2011 10:00	6.88	283.4
9/25/2011 11:00	6.87	331.3
9/25/2011 12:00	6.48	331.8
9/25/2011 13:00	6.21	323.2

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
9/25/2011 14:00	5.67	328.8
9/25/2011 15:00	4.76	344
9/25/2011 16:00	3.13	335.6
9/25/2011 17:00	4.97	353.3
9/25/2011 18:00	4.44	344.8
9/25/2011 19:00	3.40	25.6
9/25/2011 20:00	2.66	34.83
9/25/2011 21:00	4.14	32.73
9/25/2011 22:00	5.14	49
9/25/2011 23:00	5.20	77.89
9/26/2011 0:00	4.05	94.7
9/26/2011 1:00	5.17	80.3
9/26/2011 2:00	5.90	68.29
9/26/2011 3:00	5.78	75.17
9/26/2011 4:00	7.65	76.11
9/26/2011 5:00	8.73	76.45
9/26/2011 6:00	9.13	74.8
9/26/2011 7:00	9.75	68.31
9/26/2011 8:00	10.83	69.48
9/26/2011 9:00	12.57	71.49
9/26/2011 10:00	14.77	71.71
9/26/2011 11:00	16.94	71.68
9/26/2011 12:00	16.75	70.02
9/26/2011 13:00	17.76	69.72
9/26/2011 14:00	16.35	64.59
9/26/2011 15:00	16.11	68.26
9/26/2011 16:00	16.99	62.58
9/26/2011 17:00	17.41	64.82
9/26/2011 18:00	16.93	62.17
9/26/2011 19:00	17.23	54.32
9/26/2011 20:00	18.96	51.48
9/26/2011 21:00	17.14	48.07
9/26/2011 22:00	16.17	40.5
9/26/2011 23:00	17.05	37.13
9/27/2011 0:00	16.67	34.46
9/27/2011 1:00	15.58	33.56
9/27/2011 2:00	16.67	37.34
9/27/2011 3:00	15.12	34.84
9/27/2011 4:00	14.20	31.83
9/27/2011 5:00	14.90	31
9/27/2011 6:00	17.43	24.75
9/27/2011 7:00	17.35	20.93
9/27/2011 8:00	16.83	13.26
9/27/2011 9:00	16.47	13.95
9/27/2011 10:00	16.45	9.02
9/27/2011 11:00	14.65	1.949
9/27/2011 12:00	14.93	1.405
9/27/2011 13:00	13.31	355.1
9/27/2011 14:00	13.40	347.9
9/27/2011 15:00	13.12	346.5
9/27/2011 16:00	13.36	348.6
9/27/2011 17:00	12.77	341.2
9/27/2011 18:00	12.01	343.6
9/27/2011 19:00	12.03	348.8
9/27/2011 20:00	11.84	351.7
9/27/2011 21:00	10.58	347.7
9/27/2011 22:00	10.46	343.7
9/27/2011 23:00	9.70	341
9/28/2011 0:00	8.88	340.8
9/28/2011 1:00	9.34	318.3
9/28/2011 2:00	11.08	319.5
9/28/2011 3:00	10.49	342.1
9/28/2011 4:00	9.68	327.1
9/28/2011 5:00	9.60	311.6
9/28/2011 6:00	10.33	320
9/28/2011 7:00	9.62	317.8
9/28/2011 8:00	10.57	319.3
9/28/2011 9:00	9.82	321.4
9/28/2011 10:00	9.36	321.4
9/28/2011 11:00	8.90	322.6

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
9/28/2011 12:00	8.12	324.9
9/28/2011 13:00	7.49	318.8
9/28/2011 14:00	6.90	307.5
9/28/2011 15:00	7.64	295.2
9/28/2011 16:00	7.29	290.9
9/28/2011 17:00	7.14	298.7
9/28/2011 18:00	7.36	290.8
9/28/2011 19:00	6.67	295.9
9/28/2011 20:00	6.05	295.7
9/28/2011 21:00	5.38	301
9/28/2011 22:00	5.51	312.1
9/28/2011 23:00	5.06	295.9
9/29/2011 0:00	4.98	295.9
9/29/2011 1:00	5.48	291.2
9/29/2011 2:00	4.75	296
9/29/2011 3:00	3.63	311.2
9/29/2011 4:00	3.18	312.1
9/29/2011 5:00	2.77	290.9
9/29/2011 6:00	1.64	283
9/29/2011 7:00	1.80	281.4
9/29/2011 8:00	1.55	295.8
9/29/2011 9:00	1.55	279.6
9/29/2011 10:00	1.90	203.6
9/29/2011 11:00	1.55	168.3
9/29/2011 12:00	0.50	92.7
9/29/2011 13:00	0.83	60.64
9/29/2011 14:00	0.48	267.3
9/29/2011 15:00	1.62	9.32
9/29/2011 16:00	1.84	26.6
9/29/2011 17:00	1.08	49.48
9/29/2011 18:00	0.82	111.8
9/29/2011 19:00	2.66	117.5
9/29/2011 20:00	2.52	125.8
9/29/2011 21:00	2.92	140.7
9/29/2011 22:00	3.76	127.2
9/29/2011 23:00	3.69	129.6
9/30/2011 0:00	4.41	132.4
9/30/2011 1:00	4.48	123.9
9/30/2011 2:00	5.67	110.8
9/30/2011 3:00	6.68	104.8
9/30/2011 4:00	7.24	104.8
9/30/2011 5:00	7.46	105.8
9/30/2011 6:00	8.96	98.6
9/30/2011 7:00	8.66	102.1
9/30/2011 8:00	10.37	101.8
9/30/2011 9:00	8.45	98.3
9/30/2011 10:00	8.21	88
9/30/2011 11:00	9.28	84.4
9/30/2011 12:00	8.20	88.4
9/30/2011 13:00	9.08	84
9/30/2011 14:00	10.82	80.2
9/30/2011 15:00	12.26	75.91
9/30/2011 16:00	13.09	75.92
9/30/2011 17:00	13.05	75.48
9/30/2011 18:00	13.25	78.45
9/30/2011 19:00	14.42	78.35
9/30/2011 20:00	14.15	75.94
9/30/2011 21:00	14.59	77.59
9/30/2011 22:00	14.23	77.11
9/30/2011 23:00	15.16	71.56
10/1/2011 0:00	15.45	69.63
10/1/2011 1:00	15.44	60.45
10/1/2011 2:00	15.34	58.01
10/1/2011 3:00	13.46	50.86
10/1/2011 4:00	12.14	45.4
10/1/2011 5:00	13.00	41.16
10/1/2011 6:00	14.04	37.34
10/1/2011 7:00	13.23	36.79
10/1/2011 8:00	12.52	36.51
10/1/2011 9:00	12.65	38.72

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
10/1/2011 10:00	13.09	38.04
10/1/2011 11:00	13.15	44.18
10/1/2011 12:00	11.13	38.27
10/1/2011 13:00	10.74	39.44
10/1/2011 14:00	9.69	28.26
10/1/2011 15:00	9.20	22.93
10/1/2011 16:00	8.82	15.74
10/1/2011 17:00	6.92	0.134
10/1/2011 18:00	6.36	348.8
10/1/2011 19:00	6.33	340.2
10/1/2011 20:00	5.25	340.7
10/1/2011 21:00	4.74	316.1
10/1/2011 22:00	4.48	292.2
10/1/2011 23:00	3.38	277.7
10/2/2011 0:00	2.06	285.3
10/2/2011 1:00	1.67	205.6
10/2/2011 2:00	2.63	163.7
10/2/2011 3:00	4.62	210.3
10/2/2011 4:00	3.49	160.7
10/2/2011 5:00	4.18	162.4
10/2/2011 6:00	7.31	173.6
10/2/2011 7:00	8.11	161.8
10/2/2011 8:00	8.62	167.2
10/2/2011 9:00	8.07	171.8
10/2/2011 10:00	7.82	171.8
10/2/2011 11:00	7.78	182.3
10/2/2011 12:00	7.33	181.3
10/2/2011 13:00	6.72	196.5
10/2/2011 14:00	6.02	206.5
10/2/2011 15:00	5.54	213
10/2/2011 16:00	5.71	199.2
10/2/2011 17:00	4.61	186.9
10/2/2011 18:00	4.93	193.3
10/2/2011 19:00	4.60	200.3
10/2/2011 20:00	4.96	189.5
10/2/2011 21:00	5.41	189.8
10/2/2011 22:00	6.15	192.9
10/2/2011 23:00	6.65	193.6
10/3/2011 0:00	6.71	204.4
10/3/2011 1:00	6.76	210.5
10/3/2011 2:00	7.63	230.1
10/3/2011 3:00	6.25	257.9
10/3/2011 4:00	5.39	278.6
10/3/2011 5:00	5.75	286.8
10/3/2011 6:00	4.37	273.9
10/3/2011 7:00	3.48	267.7
10/3/2011 8:00	2.69	280
10/3/2011 9:00	2.26	285.3
10/3/2011 10:00	1.23	323.8
10/3/2011 11:00	0.94	223.1
10/3/2011 12:00	1.61	170.2
10/3/2011 13:00	3.88	135.6
10/3/2011 14:00	4.19	135.5
10/3/2011 15:00	3.48	118.7
10/3/2011 16:00	3.43	139.8
10/3/2011 17:00	3.49	128.9
10/3/2011 18:00	3.26	136.6
10/3/2011 19:00	3.68	151.1
10/3/2011 20:00	4.74	153.1
10/3/2011 21:00	6.42	156.4
10/3/2011 22:00	6.28	148.1
10/3/2011 23:00	7.13	155.7
10/4/2011 0:00	7.12	163.5
10/4/2011 1:00	7.03	163.6
10/4/2011 2:00	6.40	159.2
10/4/2011 3:00	6.09	144.1
10/4/2011 4:00	6.60	151.8
10/4/2011 5:00	6.01	146.2
10/4/2011 6:00	4.85	142.7
10/4/2011 7:00	5.20	136.5

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
10/4/2011 8:00	7.01	144.5
10/4/2011 9:00	5.13	140.2
10/4/2011 10:00	9.49	141.7
10/4/2011 11:00	9.25	150.8
10/4/2011 12:00	7.92	136.2
10/4/2011 13:00	6.96	145.4
10/4/2011 14:00	7.16	130.9
10/4/2011 15:00	8.63	139.9
10/4/2011 16:00	9.79	129.5
10/4/2011 17:00	8.37	116.4
10/4/2011 18:00	9.32	122.8
10/4/2011 19:00	11.28	132.3
10/4/2011 20:00	7.10	128.4
10/4/2011 21:00	9.97	137.6
10/4/2011 22:00	10.45	144
10/4/2011 23:00	9.77	127.3
10/5/2011 0:00	8.41	122.3
10/5/2011 1:00	9.12	127.6
10/5/2011 2:00	8.81	129.4
10/5/2011 3:00	8.18	132.2
10/5/2011 4:00	7.84	131.4
10/5/2011 5:00	10.09	122.3
10/5/2011 6:00	6.85	130.5
10/5/2011 7:00	5.02	132.4
10/5/2011 8:00	6.29	150.3
10/5/2011 9:00	3.53	143.8
10/5/2011 10:00	3.81	137.3
10/5/2011 11:00	2.11	155.3
10/5/2011 12:00	1.67	141.3
10/5/2011 13:00	4.39	205.4
10/5/2011 14:00	8.59	247.5
10/5/2011 15:00	10.66	248.2
10/5/2011 16:00	8.10	244.8
10/5/2011 17:00	8.41	233.5
10/5/2011 18:00	8.78	229.8
10/5/2011 19:00	10.78	229.4
10/5/2011 20:00	12.48	243.1
10/5/2011 21:00	13.49	249
10/5/2011 22:00	12.63	251.4
10/5/2011 23:00	10.84	257.5
10/6/2011 0:00	10.61	263.1
10/6/2011 1:00	9.74	268.4
10/6/2011 2:00	9.44	271.4
10/6/2011 3:00	8.93	269.2
10/6/2011 4:00	8.30	265.7
10/6/2011 5:00	9.95	266.8
10/6/2011 6:00	10.77	266.8
10/6/2011 7:00	10.41	263.8
10/6/2011 8:00	10.64	259.7
10/6/2011 9:00	9.58	262.4
10/6/2011 10:00	9.54	260.5
10/6/2011 11:00	9.89	258.2
10/6/2011 12:00	10.72	255.9
10/6/2011 13:00	8.28	263
10/6/2011 14:00	7.23	260.1
10/6/2011 15:00	7.43	260.3
10/6/2011 16:00	6.83	260.9
10/6/2011 17:00	5.61	262
10/6/2011 18:00	6.21	246.1
10/6/2011 19:00	5.27	247.5
10/6/2011 20:00	4.58	243.3
10/6/2011 21:00	4.63	234.2
10/6/2011 22:00	2.94	201.2
10/6/2011 23:00	1.41	213.5
10/7/2011 0:00	3.32	154.7
10/7/2011 1:00	3.60	122.4
10/7/2011 2:00	5.37	133.7
10/7/2011 3:00	4.94	122.6
10/7/2011 4:00	6.83	124
10/7/2011 5:00	8.07	118.3

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
10/7/2011 6:00	9.12	118
10/7/2011 7:00	9.39	124.2
10/7/2011 8:00	8.82	117.1
10/7/2011 9:00	8.21	115.9
10/7/2011 10:00	6.62	124.1
10/7/2011 11:00	6.15	133.6
10/7/2011 12:00	5.85	136.8
10/7/2011 13:00	5.41	118.6
10/7/2011 14:00	4.82	126.9
10/7/2011 15:00	6.58	146.3
10/7/2011 16:00	6.60	149.5
10/7/2011 17:00	6.19	146.4
10/7/2011 18:00	7.27	150.1
10/7/2011 19:00	7.33	144.6
10/7/2011 20:00	6.07	143.6
10/7/2011 21:00	5.20	157.5
10/7/2011 22:00	4.65	164.3
10/7/2011 23:00	2.95	145.7
10/8/2011 0:00	3.55	154.2
10/8/2011 1:00	3.37	157.8
10/8/2011 2:00	1.96	154
10/8/2011 3:00	1.41	159.8
10/8/2011 4:00	1.28	164
10/8/2011 5:00	3.95	256.8
10/8/2011 6:00	5.28	250.1
10/8/2011 7:00	9.29	241.6
10/8/2011 8:00	8.84	249.6
10/8/2011 9:00	5.81	256.7
10/8/2011 10:00	4.53	272.5
10/8/2011 11:00	4.95	295.3
10/8/2011 12:00	3.39	279.2
10/8/2011 13:00	4.22	274.9
10/8/2011 14:00	5.58	278.5
10/8/2011 15:00	6.96	283.7
10/8/2011 16:00	6.28	292.2
10/8/2011 17:00	7.15	298.4
10/8/2011 18:00	7.40	300.3
10/8/2011 19:00	8.74	331.9
10/8/2011 20:00	10.29	341
10/8/2011 21:00	10.42	340.1
10/8/2011 22:00	10.75	337.6
10/8/2011 23:00	11.88	339.5
10/9/2011 0:00	11.93	346
10/9/2011 1:00	11.93	344.3
10/9/2011 2:00	13.14	341.7
10/9/2011 3:00	13.25	343.1
10/9/2011 4:00	13.83	348.8
10/9/2011 5:00	13.61	350.7
10/9/2011 6:00	13.26	350.5
10/9/2011 7:00	12.26	353.4
10/9/2011 8:00	13.25	1.046
10/9/2011 9:00	13.01	6.154
10/9/2011 10:00	11.09	4.823
10/9/2011 11:00	10.21	7.356
10/9/2011 12:00	9.84	14.23
10/9/2011 13:00	8.92	12.25
10/9/2011 14:00	8.04	10.72
10/9/2011 15:00	7.56	4.478
10/9/2011 16:00	7.15	7.221
10/9/2011 17:00	6.44	6.329
10/9/2011 18:00	6.26	9.69
10/9/2011 19:00	6.70	23.54
10/9/2011 20:00	5.89	36.63
10/9/2011 21:00	6.45	35.63
10/9/2011 22:00	5.34	45.42
10/9/2011 23:00	6.16	39.82
10/10/2011 0:00	6.26	26.04
10/10/2011 1:00	5.68	55.6
10/10/2011 2:00	6.61	64.33
10/10/2011 3:00	5.05	59.35

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
10/10/2011 4:00	6.61	61.73
10/10/2011 5:00	5.86	69.09
10/10/2011 6:00	5.43	87.4
10/10/2011 7:00	4.41	84.1
10/10/2011 8:00	4.68	64.9
10/10/2011 9:00	6.90	69.46
10/10/2011 10:00	7.94	78.61
10/10/2011 11:00	8.89	65.81
10/10/2011 12:00	8.77	68.09
10/10/2011 13:00	8.93	77.06
10/10/2011 14:00	8.80	90.2
10/10/2011 15:00	9.59	90.3
10/10/2011 16:00	10.25	99.6
10/10/2011 17:00	10.99	99.3
10/10/2011 18:00	11.22	95.5
10/10/2011 19:00	11.36	102.1
10/10/2011 20:00	13.07	97.3
10/10/2011 21:00	12.45	108.7
10/10/2011 22:00	11.69	109.1
10/10/2011 23:00	11.39	111.7
10/11/2011 0:00	12.06	120.6
10/11/2011 1:00	11.39	115.7
10/11/2011 2:00	12.13	121.3
10/11/2011 3:00	10.53	110.6
10/11/2011 4:00	13.62	113.9
10/11/2011 5:00	14.29	120.7
10/11/2011 6:00	13.01	112
10/11/2011 7:00	12.83	117.8
10/11/2011 8:00	12.33	123.5
10/11/2011 9:00	11.99	119
10/11/2011 10:00	12.58	119.7
10/11/2011 11:00	11.89	122.1
10/11/2011 12:00	10.11	112.8
10/11/2011 13:00	11.04	114.7
10/11/2011 14:00	11.11	117.3
10/11/2011 15:00	11.24	116.6
10/11/2011 16:00	11.02	119.2
10/11/2011 17:00	12.21	118
10/11/2011 18:00	11.75	119.5
10/11/2011 19:00	10.33	116
10/11/2011 20:00	9.61	114.8
10/11/2011 21:00	10.44	111.9
10/11/2011 22:00	11.59	114.4
10/11/2011 23:00	12.52	120.8
10/12/2011 0:00	12.17	115.3
10/12/2011 1:00	10.72	116.9
10/12/2011 2:00	11.79	121.6
10/12/2011 3:00	9.09	117.1
10/12/2011 4:00	10.50	118.5
10/12/2011 5:00	10.95	123.4
10/12/2011 6:00	9.86	124
10/12/2011 7:00	9.45	131
10/12/2011 8:00	9.05	133.7
10/12/2011 9:00	7.63	142.3
10/12/2011 10:00	6.78	153.8
10/12/2011 11:00	6.43	171.9
10/12/2011 12:00	6.98	180
10/12/2011 13:00	7.08	193.7
10/12/2011 14:00	6.29	189.9
10/12/2011 15:00	4.67	177.6
10/12/2011 16:00	3.62	164.6
10/12/2011 17:00	4.23	168.1
10/12/2011 18:00	4.09	163.1
10/12/2011 19:00	4.01	171.1
10/12/2011 20:00	4.05	167.9
10/12/2011 21:00	4.69	171.3
10/12/2011 22:00	4.64	169.7
10/12/2011 23:00	5.91	177.7
10/13/2011 0:00	6.44	176.5
10/13/2011 1:00	7.36	183.5

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
10/13/2011 2:00	7.27	186
10/13/2011 3:00	7.38	186.9
10/13/2011 4:00	7.24	188.7
10/13/2011 5:00	5.67	174.3
10/13/2011 6:00	5.18	170.1
10/13/2011 7:00	5.22	175.7
10/13/2011 8:00	5.37	179.6
10/13/2011 9:00	6.30	189.3
10/13/2011 10:00	6.00	189
10/13/2011 11:00	5.63	185.8
10/13/2011 12:00	5.66	187.2
10/13/2011 13:00	4.47	186.4
10/13/2011 14:00	4.98	184.7
10/13/2011 15:00	5.28	182.9
10/13/2011 16:00	4.91	179.3
10/13/2011 17:00	5.01	176
10/13/2011 18:00	4.47	168.3
10/13/2011 19:00	3.72	152.1
10/13/2011 20:00	6.10	179.1
10/13/2011 21:00	6.91	193
10/13/2011 22:00	4.44	173.6
10/13/2011 23:00	5.74	172.6
10/14/2011 0:00	5.71	171.1
10/14/2011 1:00	9.62	201.7
10/14/2011 2:00	9.56	200.3
10/14/2011 3:00	8.92	192.5
10/14/2011 4:00	7.49	190.7
10/14/2011 5:00	6.30	191.5
10/14/2011 6:00	6.73	213.4
10/14/2011 7:00	7.96	224.3
10/14/2011 8:00	8.16	235.3
10/14/2011 9:00	7.58	256.9
10/14/2011 10:00	9.46	270.1
10/14/2011 11:00	9.20	271
10/14/2011 12:00	7.34	272.9
10/14/2011 13:00	7.24	272.9
10/14/2011 14:00	8.69	274.5
10/14/2011 15:00	8.08	273.6
10/14/2011 16:00	7.09	267.6
10/14/2011 17:00	6.87	266.6
10/14/2011 18:00	5.72	273.8
10/14/2011 19:00	5.08	269.6
10/14/2011 20:00	5.01	269.3
10/14/2011 21:00	5.55	272.7
10/14/2011 22:00	5.27	274.5
10/14/2011 23:00	5.55	283.2
10/15/2011 0:00	5.05	291.2
10/15/2011 1:00	4.03	297
10/15/2011 2:00	3.88	308.4
10/15/2011 3:00	3.72	322.9
10/15/2011 4:00	2.37	341
10/15/2011 5:00	2.37	5.196
10/15/2011 6:00	2.47	10.33
10/15/2011 7:00	2.38	35.71
10/15/2011 8:00	3.69	31.41
10/15/2011 9:00	4.54	28.73
10/15/2011 10:00	4.69	34.87
10/15/2011 11:00	5.43	28.99
10/15/2011 12:00	5.37	26.72
10/15/2011 13:00	5.12	40.9
10/15/2011 14:00	4.84	42.31
10/15/2011 15:00	5.15	41.64
10/15/2011 16:00	5.22	30.3
10/15/2011 17:00	4.93	38.17
10/15/2011 18:00	5.02	40.98
10/15/2011 19:00	5.09	40.67
10/15/2011 20:00	4.24	41.16
10/15/2011 21:00	4.37	44.39
10/15/2011 22:00	4.96	31.28
10/15/2011 23:00	4.92	28.74

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
10/16/2011 0:00	4.70	1.815
10/16/2011 1:00	4.20	350.9
10/16/2011 2:00	4.78	341.4
10/16/2011 3:00	4.81	328.6
10/16/2011 4:00	5.35	352.6
10/16/2011 5:00	5.37	353.4
10/16/2011 6:00	4.78	342.6
10/16/2011 7:00	4.43	347.6
10/16/2011 8:00	4.64	345
10/16/2011 9:00	4.53	336.3
10/16/2011 10:00	1.84	343.6
10/16/2011 11:00	5.13	349.5
10/16/2011 12:00	4.09	0.905
10/16/2011 13:00	5.73	2.078
10/16/2011 14:00	6.05	2.617
10/16/2011 15:00	5.72	357
10/16/2011 16:00	5.71	7.811
10/16/2011 17:00	6.53	25.62
10/16/2011 18:00	7.61	36.81
10/16/2011 19:00	5.69	55.74
10/16/2011 20:00	6.02	66.4
10/16/2011 21:00	6.31	67.48
10/16/2011 22:00	5.69	58.63
10/16/2011 23:00	5.51	61.85
10/17/2011 0:00	4.75	68.08
10/17/2011 1:00	4.41	56.12
10/17/2011 2:00	5.54	50.4
10/17/2011 3:00	4.14	65.2
10/17/2011 4:00	3.48	100.6
10/17/2011 5:00	3.55	107.6
10/17/2011 6:00	4.84	82.5
10/17/2011 7:00	5.17	82.9
10/17/2011 8:00	5.15	88.3
10/17/2011 9:00	4.96	87.4
10/17/2011 10:00	4.88	101.8
10/17/2011 11:00	5.09	104.1
10/17/2011 12:00	5.20	103.3
10/17/2011 13:00	4.84	113.2
10/17/2011 14:00	5.92	97.1
10/17/2011 15:00	6.24	88.3
10/17/2011 16:00	6.62	92.2
10/17/2011 17:00	6.98	94.4
10/17/2011 18:00	6.45	121.5
10/17/2011 19:00	7.73	114.8
10/17/2011 20:00	8.03	115.6
10/17/2011 21:00	7.77	116.4
10/17/2011 22:00	8.07	110.3
10/17/2011 23:00	8.11	109.5
10/18/2011 0:00	7.83	93.6
10/18/2011 1:00	7.51	94.7
10/18/2011 2:00	7.59	92.3
10/18/2011 3:00	7.43	96.9
10/18/2011 4:00	8.15	96.6
10/18/2011 5:00	9.12	92.9
10/18/2011 6:00	9.15	94.5
10/18/2011 7:00	9.29	89.8
10/18/2011 8:00	8.90	96.9
10/18/2011 9:00	9.23	99
10/18/2011 10:00	9.11	97.3
10/18/2011 11:00	8.66	90.9
10/18/2011 12:00	9.83	88.3
10/18/2011 13:00	9.93	88.1
10/18/2011 14:00	10.27	89.4
10/18/2011 15:00	9.99	93.4
10/18/2011 16:00	9.45	86.2
10/18/2011 17:00	10.35	85.6
10/18/2011 18:00	9.97	87.1
10/18/2011 19:00	10.40	87.3
10/18/2011 20:00	9.82	89.6
10/18/2011 21:00	10.15	88.9

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
10/18/2011 22:00	10.45	98.9
10/18/2011 23:00	11.48	103.4
10/19/2011 0:00	11.12	97.4
10/19/2011 1:00	11.25	105.8
10/19/2011 2:00	12.09	104.9
10/19/2011 3:00	11.35	96.8
10/19/2011 4:00	10.50	97.8
10/19/2011 5:00	12.11	92.3
10/19/2011 6:00	10.93	86.4
10/19/2011 7:00	10.17	82.5
10/19/2011 8:00	9.56	86.8
10/19/2011 9:00	10.77	89.3
10/19/2011 10:00	10.06	87.9
10/19/2011 11:00	10.34	86.1
10/19/2011 12:00	12.03	77.18
10/19/2011 13:00	13.57	74.54
10/19/2011 14:00	14.16	70.66
10/19/2011 15:00	14.85	73.16
10/19/2011 16:00	14.91	76.26
10/19/2011 17:00	14.34	73.12
10/19/2011 18:00	13.73	74.44
10/19/2011 19:00	14.47	75.43
10/19/2011 20:00	12.90	81.9
10/19/2011 21:00	10.42	85.1
10/19/2011 22:00	9.79	88.6
10/19/2011 23:00	8.25	91.6
10/20/2011 0:00	8.56	82.5
10/20/2011 1:00	8.13	81.3
10/20/2011 2:00	7.72	75.52
10/20/2011 3:00	11.44	67.06
10/20/2011 4:00	11.91	67.63
10/20/2011 5:00	10.91	72.07
10/20/2011 6:00	7.85	77.87
10/20/2011 7:00	8.75	75.42
10/20/2011 8:00	9.12	63.83
10/20/2011 9:00	10.31	61.85
10/20/2011 10:00	6.02	81
10/20/2011 11:00	5.77	69.97
10/20/2011 12:00	8.71	51.59
10/20/2011 13:00	8.80	49.03
10/20/2011 14:00	9.80	39.2
10/20/2011 15:00	9.05	41.21
10/20/2011 16:00	9.48	43.34
10/20/2011 17:00	10.37	43.8
10/20/2011 18:00	7.89	51.49
10/20/2011 19:00	6.73	58.43
10/20/2011 20:00	7.45	49.72
10/20/2011 21:00	7.87	57.67
10/20/2011 22:00	7.44	50.36
10/20/2011 23:00	6.47	53.12
10/21/2011 0:00	9.76	55.23
10/21/2011 1:00	9.06	49.36
10/21/2011 2:00	8.79	40.74
10/21/2011 3:00	7.96	39.93
10/21/2011 4:00	8.94	41.9
10/21/2011 5:00	9.80	41.67
10/21/2011 6:00	9.91	51.95
10/21/2011 7:00	9.61	48.57
10/21/2011 8:00	9.77	53.01
10/21/2011 9:00	10.35	50
10/21/2011 10:00	9.79	52.27
10/21/2011 11:00	9.90	54.44
10/21/2011 12:00	10.43	62.71
10/21/2011 13:00	9.46	55.45
10/21/2011 14:00	8.93	52.54
10/21/2011 15:00	8.98	50.92
10/21/2011 16:00	8.12	54.53
10/21/2011 17:00	9.62	49.99
10/21/2011 18:00	9.15	50.13
10/21/2011 19:00	9.29	49.12

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
10/21/2011 20:00	9.53	47.85
10/21/2011 21:00	9.14	50
10/21/2011 22:00	8.85	55.76
10/21/2011 23:00	7.81	52.47
10/22/2011 0:00	8.31	64.2
10/22/2011 1:00	7.26	66.05
10/22/2011 2:00	6.98	77.24
10/22/2011 3:00	6.18	107
10/22/2011 4:00	5.70	136.2
10/22/2011 5:00	4.85	138.6
10/22/2011 6:00	5.76	135.1
10/22/2011 7:00	7.00	131.7
10/22/2011 8:00	7.58	118.6
10/22/2011 9:00	7.43	113
10/22/2011 10:00	7.69	118.5
10/22/2011 11:00	8.74	135.5
10/22/2011 12:00	9.02	141.1
10/22/2011 13:00	8.78	150.1
10/22/2011 14:00	9.32	156.2
10/22/2011 15:00	9.63	154.4
10/22/2011 16:00	9.34	146.5
10/22/2011 17:00	8.49	145
10/22/2011 18:00	10.16	145.4
10/22/2011 19:00	10.01	148.7
10/22/2011 20:00	10.24	149
10/22/2011 21:00	7.77	150.8
10/22/2011 22:00	9.44	153.9
10/22/2011 23:00	8.93	152.6
10/23/2011 0:00	9.39	153.7
10/23/2011 1:00	9.68	159.8
10/23/2011 2:00	8.61	160.2
10/23/2011 3:00	7.71	158.8
10/23/2011 4:00	7.15	155.2
10/23/2011 5:00	7.18	156.3
10/23/2011 6:00	6.25	149.3
10/23/2011 7:00	4.22	149.3
10/23/2011 8:00	3.60	151.7
10/23/2011 9:00	3.78	176.5
10/23/2011 10:00	4.38	180.5
10/23/2011 11:00	4.76	177.1
10/23/2011 12:00	3.51	173.3
10/23/2011 13:00	3.64	179.3
10/23/2011 14:00	4.58	180.1
10/23/2011 15:00	4.27	183.5
10/23/2011 16:00	4.37	171.4
10/23/2011 17:00	3.77	169.7
10/23/2011 18:00	3.44	173.4
10/23/2011 19:00	3.12	146.1
10/23/2011 20:00	3.33	146.6
10/23/2011 21:00	2.89	138.4
10/23/2011 22:00	3.15	145.9
10/23/2011 23:00	3.22	155.1
10/24/2011 0:00	1.52	188.7
10/24/2011 1:00	0.52	256.5
10/24/2011 2:00	2.54	274.7
10/24/2011 3:00	7.57	293.2
10/24/2011 4:00	7.96	280.8
10/24/2011 5:00	8.90	280.5
10/24/2011 6:00	9.03	276.3
10/24/2011 7:00	7.67	279.8
10/24/2011 8:00	6.41	282.1
10/24/2011 9:00	4.88	279.5
10/24/2011 10:00	4.50	261.3
10/24/2011 11:00	5.37	256.5
10/24/2011 12:00	6.16	271.8
10/24/2011 13:00	6.59	278.2
10/24/2011 14:00	7.06	287.2
10/24/2011 15:00	6.36	281.9
10/24/2011 16:00	8.80	288.2
10/24/2011 17:00	8.50	286.4

Table A3-2.1. Wind Velocity Time Series Data at Roberts Bay, Doris North Project, 2011.

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
10/24/2011 18:00	7.65	274.2
10/24/2011 19:00	11.80	277.3
10/24/2011 20:00	11.14	277.1
10/24/2011 21:00	11.79	281.7
10/24/2011 22:00	11.46	280.2
10/24/2011 23:00	12.28	272.8
10/25/2011 0:00	11.22	266.5
10/25/2011 1:00	11.83	288.9
10/25/2011 2:00	11.86	296.2
10/25/2011 3:00	11.89	289.2
10/25/2011 4:00	11.42	289.4
10/25/2011 5:00	10.50	289.3
10/25/2011 6:00	10.79	290.9
10/25/2011 7:00	7.92	282.8
10/25/2011 8:00	11.18	289.9
10/25/2011 9:00	8.76	297.2
10/25/2011 10:00	7.49	283.5
10/25/2011 11:00	9.15	279.2
10/25/2011 12:00	8.56	279.2
10/25/2011 13:00	7.80	283.4
10/25/2011 14:00	6.59	280
10/25/2011 15:00	4.99	292.1
10/25/2011 16:00	2.88	302.9
10/25/2011 17:00	2.17	358.6
10/25/2011 18:00	4.51	100.7
10/25/2011 19:00	4.67	111.5
10/25/2011 20:00	6.45	107.5
10/25/2011 21:00	7.73	100.4
10/25/2011 22:00	8.23	106.5
10/25/2011 23:00	7.74	106.4
10/26/2011 0:00	7.47	105.4
10/26/2011 1:00	7.77	109.6
10/26/2011 2:00	8.30	102.8
10/26/2011 3:00	9.39	100.2
10/26/2011 4:00	10.28	103.2
10/26/2011 5:00	8.89	100.1
10/26/2011 6:00	9.81	102
10/26/2011 7:00	9.04	105
10/26/2011 8:00	9.12	101
10/26/2011 9:00	8.27	96.1
10/26/2011 10:00	7.91	101.9
10/26/2011 11:00	6.03	119.3
10/26/2011 12:00	4.08	90.9
10/26/2011 13:00	5.81	75.74
10/26/2011 14:00	4.58	108.4
10/26/2011 15:00	4.02	128.4
10/26/2011 16:00	2.65	120.4
10/26/2011 17:00	4.19	60.85
10/26/2011 18:00	5.84	53.44
10/26/2011 19:00	6.70	51.41
10/26/2011 20:00	9.71	38.75
10/26/2011 21:00	11.14	39.86
10/26/2011 22:00	13.37	43.54
10/26/2011 23:00	15.72	39.71
10/27/2011 0:00	16.16	37.87
10/27/2011 1:00	16.30	38.51
10/27/2011 2:00	17.94	37.8
10/27/2011 3:00	18.04	34.97
10/27/2011 4:00	16.23	24.9
10/27/2011 5:00	18.63	23.52
10/27/2011 6:00	18.15	22.33
10/27/2011 7:00	17.44	16.74
10/27/2011 8:00	18.38	10.98
10/27/2011 9:00	17.90	13.68
10/27/2011 10:00	16.98	4.699
10/27/2011 11:00	16.75	351.9
10/27/2011 12:00	17.13	356
10/27/2011 13:00	15.82	356.5
10/27/2011 14:00	13.53	357.5
10/27/2011 15:00	13.65	357.5

Date/Time	Wind Speed (m/s)	Wind Direction (degrees)
10/27/2011 16:00	14.13	1.148
10/27/2011 17:00	13.59	0.856
10/27/2011 18:00	13.05	358.5
10/27/2011 19:00	13.25	357.7
10/27/2011 20:00	12.58	356.3
10/27/2011 21:00	12.44	357.8
10/27/2011 22:00	10.75	359.1
10/27/2011 23:00	9.76	356.6
10/28/2011 0:00	8.88	359.3
10/28/2011 1:00	7.84	350.9
10/28/2011 2:00	7.30	343
10/28/2011 3:00	6.72	349.5
10/28/2011 4:00	5.96	349
10/28/2011 5:00	5.11	354.3
10/28/2011 6:00	4.47	344.3
10/28/2011 7:00	3.85	343.3
10/28/2011 8:00	3.32	357.9
10/28/2011 9:00	3.69	37.45
10/28/2011 10:00	2.60	71.68
10/28/2011 11:00	2.31	76.16
10/28/2011 12:00	2.58	126.2
10/28/2011 13:00	3.00	144.7
10/28/2011 14:00	4.19	171.1
10/28/2011 15:00	4.52	156
10/28/2011 16:00	4.51	164.4
10/28/2011 17:00	5.33	160.8
10/28/2011 18:00	5.41	153.5
10/28/2011 19:00	6.82	144.7
10/28/2011 20:00	7.98	147.4
10/28/2011 21:00	7.57	140.9
10/28/2011 22:00	6.28	129.3
10/28/2011 23:00	7.12	136.5
10/29/2011 0:00	9.12	137.9
10/29/2011 1:00	8.82	143.5
10/29/2011 2:00	10.14	144.3
10/29/2011 3:00	9.44	144.8
10/29/2011 4:00	8.73	143.2
10/29/2011 5:00	9.27	143.3
10/29/2011 6:00	9.45	143.7
10/29/2011 7:00	9.39	143
10/29/2011 8:00	8.49	133.8
10/29/2011 9:00	9.56	129.3
10/29/2011 10:00	11.62	127.7
10/29/2011 11:00	12.73	126.6

Note: Wind direction is direction where wind is coming
from

Table A3-2.2. Freshwater Flow Time Series of Roberts and Doris Creeks Flowing into Roberts Bay, Doris North Project, 2011

Date	Doris Creek	Roberts Creek	Date	Doris Creek	Roberts Creek
	Mean Daily Discharge (m ³ /s)	Mean Daily Discharge (m ³ /s)		Mean Daily Discharge (m ³ /s)	Mean Daily Discharge (m ³ /s)
June/12/2011	0.54		August/15/2011	0.50	0.22
June/13/2011	0.64		August/16/2011	0.48	0.20
June/14/2011	0.92		August/17/2011	0.47	0.20
June/15/2011	1.54		August/18/2011	0.48	0.19
June/16/2011	2.25		August/19/2011	0.48	0.17
June/17/2011	3.05		August/20/2011	0.47	0.17
June/18/2011	3.74		August/21/2011	0.47	0.17
June/19/2011	4.32		August/22/2011	0.46	0.19
June/20/2011	4.76		August/23/2011	0.46	0.16
June/21/2011	5.08	7.53	August/24/2011	0.46	0.15
June/22/2011	5.15	7.30	August/25/2011	0.45	0.15
June/23/2011	5.07	6.87	August/26/2011	0.44	0.14
June/24/2011	4.93	6.44	August/27/2011	0.44	0.14
June/25/2011	4.77	6.04	August/28/2011	0.43	0.14
June/26/2011	4.58	5.64	August/29/2011	0.43	0.14
June/27/2011	4.34	5.26	August/30/2011	0.43	0.14
June/28/2011	4.16	4.92	August/31/2011	0.42	0.14
June/29/2011	3.93	4.56	September/1/2011	0.42	0.13
June/30/2011	4.00	4.60	September/2/2011	0.41	0.12
July/1/2011	4.20	5.00	September/3/2011	0.41	0.12
July/2/2011	4.93	6.20	September/4/2011	0.41	0.12
July/3/2011	5.41	6.55	September/5/2011	0.40	0.11
July/4/2011	5.70	6.28	September/6/2011	0.40	0.11
July/5/2011	5.77	5.80	September/7/2011	0.44	0.17
July/6/2011	5.59	5.22	September/8/2011	0.49	0.25
July/7/2011	5.25	4.65	September/9/2011	0.51	0.31
July/8/2011	4.90	4.15	September/10/2011	0.52	0.36
July/9/2011	4.52	3.71	September/11/2011	0.53	0.40
July/10/2011	4.15	3.31	September/12/2011	0.53	0.44
July/11/2011	3.80	2.94	September/13/2011	0.54	0.46
July/12/2011	3.48	2.64	September/14/2011	0.55	0.49
July/13/2011	3.20	2.35	September/15/2011	0.55	0.50
July/14/2011	2.93	2.10	September/16/2011	0.56	0.51
July/15/2011	2.70	1.87	September/17/2011	0.56	0.51
July/16/2011	2.48	1.67	September/18/2011	0.57	0.51
July/17/2011	2.30	1.49	September/19/2011	0.57	0.51
July/18/2011	2.15	1.37	September/20/2011	0.57	0.50
July/19/2011	2.00	1.23	September/21/2011	0.57	0.50
July/20/2011	1.86	1.08	September/22/2011	0.57	0.51
July/21/2011	1.70	0.96	September/23/2011	0.58	0.53
July/22/2011	1.57	0.86	September/24/2011	0.59	0.55
July/23/2011	1.45	0.83	September/25/2011	0.60	0.56
July/24/2011	1.34	0.78	September/26/2011	0.60	
July/25/2011	1.25	0.73	September/27/2011	0.62	
July/26/2011	1.14	0.67	September/28/2011	0.63	
July/27/2011	1.03	0.64	September/29/2011	0.64	
July/28/2011	0.96	0.61	September/30/2011	0.64	
July/29/2011	0.90	0.59	October/1/2011	0.63	
July/30/2011	0.84	0.56	October/2/2011	0.65	
July/31/2011	0.79	0.54	October/3/2011	0.64	
August/1/2011	0.74	0.51	October/4/2011	0.64	
August/2/2011	0.71	0.46	October/5/2011	0.65	
August/3/2011	0.69	0.43	October/6/2011	0.65	
August/4/2011	0.67	0.41	October/7/2011	0.65	
August/5/2011	0.65	0.39	October/8/2011	0.66	
August/6/2011	0.64	0.38	October/9/2011	0.66	
August/7/2011	0.62	0.36	October/10/2011	0.66	
August/8/2011	0.60	0.33	October/11/2011	0.67	
August/9/2011	0.58	0.31	October/12/2011	0.70	
August/10/2011	0.57	0.28	October/13/2011	0.71	
August/11/2011	0.55	0.27	October/14/2011	0.71	
August/12/2011	0.54	0.25	October/15/2011	0.70	
August/13/2011	0.53	0.24	October/16/2011	0.69	
August/14/2011	0.51	0.23	October/17/2011	0.69	

Appendix 3-3

Ocean Currents and Deep-Water
Temperature/Salinity/Oxygen Measurements
in Roberts Bay (Time Series), Doris North Project, 2011

Appendix 3-3. Ocean Currents and Deep-Water Temperature/Salinity/Oxygen Measurements in Roberts Bay (Time Series), Doris North Project, 2011

A3-3.1 Temperature, Salinity and Oxygen Data

A3-3.1.1 May 22 - July 17 Deployment

A3-3.1.2 July 17 - October 4 Deployment

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A3-3.2.2 February 10 - April 16 Deployment

A3-3.2.3 April 21 - May 22 Deployment

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Figure A3-3.4. Time-series Plot of the North Velocity Component at 9 m Depth for February 10-22 at the 38 m Site

Figure A3-3.5. Time-series Plot of the East Velocity Component at 21 m depth for February 10-22 at the 38 m Site

Figure A3-3.6. Time-series Plot of the North Velocity Component at 21 m Depth for February 10-22 at the 38 m Site

Figure A3-3.7. Time-series Plot of the East Velocity Component at 30 m Depth for February 10-22 at the 38 m Site

Figure A3-3.8. Time-series Plot of the North Velocity Component at 30 m Depth for February 10-22 at the 38 m Site

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Figure A3-3.11. Time-series Plot of the East Velocity Component at 21 m Depth for February 22-April 16 at the 38 m Site

Figure A3-3.12. Time-series Plot of the North Velocity Component at 21 m Depth for February 22-April 16 at the 38 m Site

Figure A3-3.13. Time-series Plot of the East Velocity Component at 30 m Depth for February 22-April 16 at the 38 m Site

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Appendix 3-3. Ocean Currents and Deep-Water Temperature/Salinity/Oxygen Measurements in Roberts Bay (Time Series), Doris North Project, 2011

3-3.1 TEMPERATURE, SALINITY AND OXYGEN DATA

The CTD sensors sampled measurement data at one hour intervals. The following data types were obtained from the sensors and were subject to quality control:

- o Temperature (°C)
- o Depth (m)
- o Salinity
- o Density (kg/m³)
- o Dissolved Oxygen (mg/L)

The data were reviewed for spikes, drop-outs, and other unusual features. The quality of the temperature, pressure and depth channels was good and did not require any additional editing. There were, however, some spikes and unusual features found in the salinity and density data (derived from salinity, temperature and pressure). These features were interpolated if they were single spikes and flagged to -9999 if more than one consecutive point was suspect. There were drop-outs (null values) seen in the dissolved oxygen data. These were all found to be single spikes and were interpolated.

3-3.1.1 May 22 - July 17 Deployment

The CTD during this deployment was attached to the ADCP cage at 81.5 m depth. A summary of points flagged or interpolated during processing is given in Table A3-3.1. A time-series plot of temperature, salinity, density and dissolved oxygen is presented in Figure A3-3.1. Statistics computed for temperature, salinity, density and dissolved oxygen are shown in Table A3-3.2. Flagged values are plotted as NaN values and appear as gaps in the data record. Complete reported data is found in Table A3-3.3.

Table A3-3.1. Summary of Points Edited for May 22 - July 17 at the 85 m Site

	Interpolated	Flagged	% Edit	Total Points
Temperature	0	0	0.00%	1,345
Pressure	0	0	0.00%	1,345
Depth	0	0	0.00%	1,345
Salinity	8	28	0.59%	1,345
Density	8	28	2.68%	1,345
Dissolved Oxygen	30	0	2.23%	1,345

Figure A3-3.1. Time-series Plot of CTD Data at 81.5 m Depth for May 22 - July 17

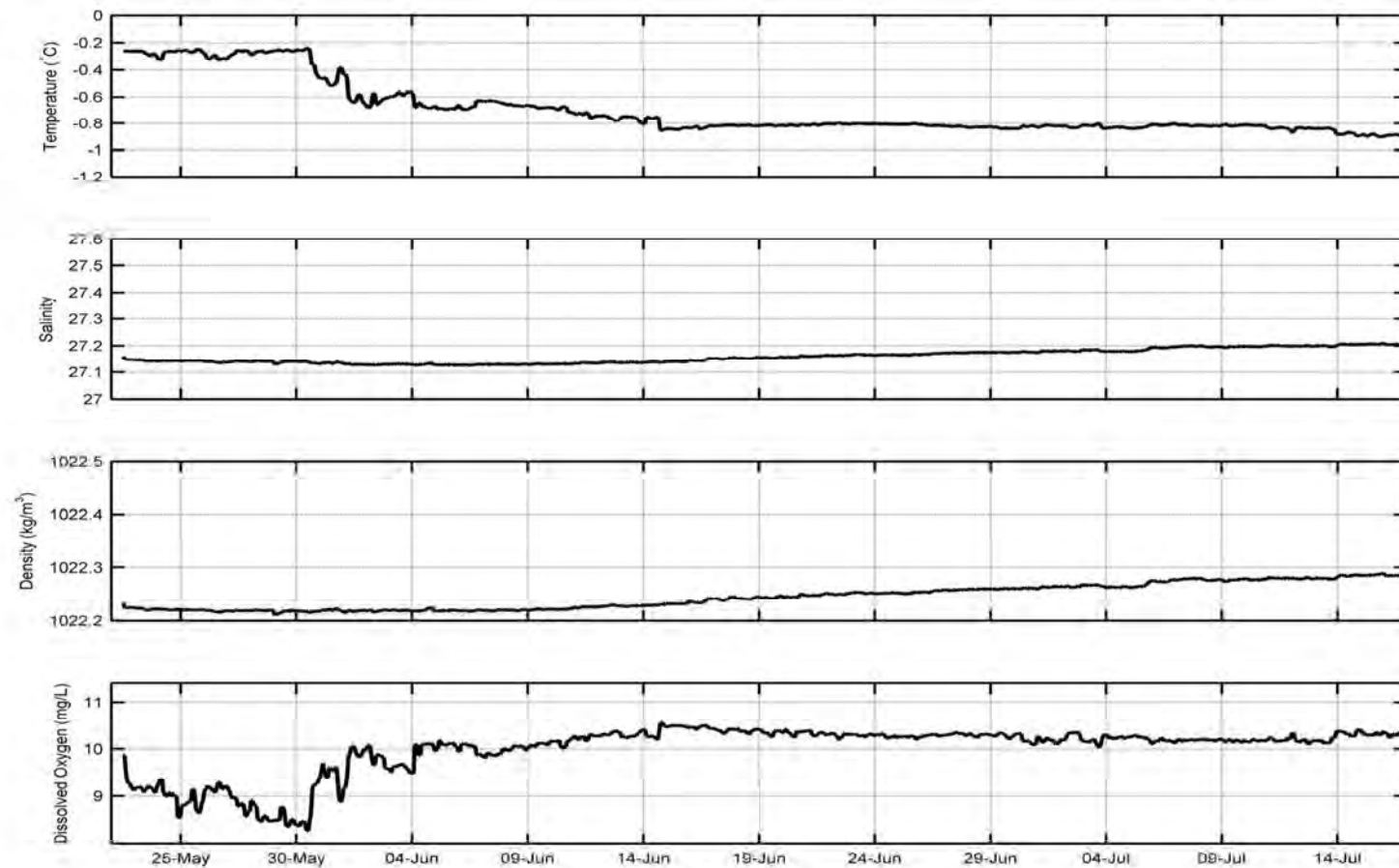


Table A3-3.2. Temperature, Salinity, Density and Dissolved Oxygen Summary Statistics for May 22 - July 17 at 85 m Site

Channel	22-May-2011 18:50:30 to 17-Jul-2011 18:51:09										
	Min	1%	5%	25%	50%	Mean	75%	95%	99%	Std	Max
Temperature (°C)	-0.904	-0.901	-0.884	-0.825	-0.809	-0.702	-0.657	-0.262	-0.251	0.199	-0.227
Salinity	27.105	27.12	27.127	27.136	27.156	27.16	27.181	27.205	27.208	0.027	27.211
Density (kg/m ³)	1,022.14	1,022.15	1,022.16	1,022.17	1,022.19	1,022.192	1,022.21	1,022.23	1,022.24	0.024	1,022.24
Dissolved Oxygen (mg/L)	6.837	6.984	7.228	8.284	8.459	8.289	8.547	8.645	8.723	0.434	8.759

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
22/05/2011 12:50:30.000'	-0.26	27.16	81.2	1022.23	9.88	81.1
22/05/2011 13:50:30.000'	-0.26	27.15	81.2	1022.22	9.88	81.1
22/05/2011 14:50:30.000'	-0.26	27.15	81.2	1022.22	9.55	78.4
22/05/2011 15:50:30.000'	-0.26	27.15	81.2	1022.22	9.42	77.3
22/05/2011 16:50:30.000'	-0.26	27.15	81.3	1022.22	9.29	76.2
22/05/2011 17:50:30.000'	-0.26	27.15	81.4	1022.22	9.27	76.1
22/05/2011 18:50:30.000'	-0.26	27.15	81.4	1022.22	9.27	76.1
22/05/2011 19:50:30.000'	-0.26	27.15	81.5	1022.23	9.25	75.9
22/05/2011 20:50:30.000'	-0.27	27.14	81.5	1022.22	9.17	75.3
22/05/2011 21:50:30.000'	-0.26	27.15	81.5	1022.22	9.16	75.2
22/05/2011 22:50:30.000'	-0.26	27.15	81.5	1022.22	9.12	74.9
22/05/2011 23:50:30.000'	-0.26	27.15	81.5	1022.23	9.12	74.9
23/05/2011 00:50:30.000'	-0.26	27.15	81.4	1022.22	9.16	75.2
23/05/2011 01:50:30.000'	-0.26	27.15	81.4	1022.22	9.18	75.3
23/05/2011 02:50:30.000'	-0.26	27.15	81.3	1022.22	9.18	75.3
23/05/2011 03:50:30.000'	-0.26	27.15	81.3	1022.22	9.16	75.2
23/05/2011 04:50:30.000'	-0.26	27.15	81.3	1022.22	9.19	75.5
23/05/2011 05:50:30.000'	-0.26	27.15	81.3	1022.22	9.19	75.5
23/05/2011 06:50:30.000'	-0.27	27.15	81.3	1022.22	9.19	75.4
23/05/2011 07:50:30.000'	-0.27	27.15	81.3	1022.22	9.14	75.0
23/05/2011 08:50:30.000'	-0.27	27.15	81.3	1022.22	9.14	75.0
23/05/2011 09:50:30.000'	-0.27	27.14	81.3	1022.22	9.07	74.4
23/05/2011 10:50:30.000'	-0.28	27.14	81.3	1022.22	9.14	75.0
23/05/2011 11:50:30.000'	-0.28	27.14	81.3	1022.22	9.14	75.0
23/05/2011 12:50:30.000'	-0.28	27.14	81.3	1022.22	9.14	75.0
23/05/2011 13:50:30.000'	-0.29	27.14	81.3	1022.22	9.20	75.5
23/05/2011 14:50:30.000'	-0.29	27.14	81.3	1022.22	9.21	75.3
23/05/2011 15:50:30.000'	-0.30	27.14	81.3	1022.22	9.19	75.3
23/05/2011 16:50:30.000'	-0.30	27.14	81.3	1022.22	9.16	75.1
23/05/2011 17:50:30.000'	-0.30	27.14	81.4	1022.22	9.16	75.1
23/05/2011 18:50:30.000'	-0.28	27.14	81.5	1022.22	9.16	74.8
23/05/2011 19:50:30.000'	-0.28	27.14	81.5	1022.22	9.12	74.8
23/05/2011 20:50:30.000'	-0.28	27.14	81.6	1022.22	9.08	74.5
23/05/2011 21:50:30.000'	-0.29	27.14	81.6	1022.22	9.07	74.3
23/05/2011 22:50:30.000'	-0.30	27.14	81.6	1022.22	9.16	75.1
23/05/2011 23:50:30.000'	-0.31	27.14	81.6	1022.22	9.21	75.5
24/05/2011 00:50:30.000'	-0.32	27.14	81.5	1022.22	9.25	75.8
24/05/2011 01:50:30.000'	-0.33	27.14	81.5	1022.22	9.29	76.1
24/05/2011 02:50:30.000'	-0.32	27.14	81.4	1022.22	9.36	76.7
24/05/2011 03:50:30.000'	-0.32	27.14	81.4	1022.22	9.35	76.9
24/05/2011 04:50:30.000'	-0.32	27.14	81.3	1022.22	9.35	76.6
24/05/2011 05:50:30.000'	-0.29	27.14	81.3	1022.22	9.08	74.4
24/05/2011 06:50:30.000'	-0.28	27.14	81.3	1022.22	9.08	74.5
24/05/2011 07:50:30.000'	-0.27	27.14	81.3	1022.22	9.00	73.9
24/05/2011 08:50:30.000'	-0.27	27.14	81.3	1022.22	9.00	73.9

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
24/05/2011 09:50:30.000'	-0.26	27.14	81.4	1022.22	9.00	73.9
24/05/2011 10:50:30.000'	-0.27	27.14	81.4	1022.22	9.00	73.9
24/05/2011 11:50:30.000'	-0.27	27.14	81.4	1022.22	9.07	74.4
24/05/2011 12:50:30.000'	-0.27	27.14	81.3	1022.22	9.08	74.5
24/05/2011 13:50:30.000'	-0.27	27.14	81.3	1022.22	8.99	73.7
24/05/2011 14:50:30.000'	-0.27	27.14	81.3	1022.22	9.08	74.5
24/05/2011 15:50:30.000'	-0.27	27.14	81.3	1022.22	9.01	74.0
24/05/2011 16:50:30.000'	-0.27	27.14	81.3	1022.22	9.00	73.8
24/05/2011 17:50:30.000'	-0.27	27.14	81.3	1022.22	9.01	74.0
24/05/2011 18:50:30.000'	-0.27	27.14	81.4	1022.22	9.00	73.8
24/05/2011 19:50:30.000'	-0.26	27.15	81.5	1022.22	9.00	73.8
24/05/2011 20:50:30.000'	-0.25	27.14	81.5	1022.22	8.57	70.3
24/05/2011 21:50:30.000'	-0.25	27.14	81.6	1022.22	8.57	70.3
24/05/2011 22:50:30.000'	-0.26	27.14	81.6	1022.22	8.57	70.3
24/05/2011 23:50:30.000'	-0.26	27.14	81.6	1022.22	8.57	70.3
25/05/2011 00:50:30.000'	-0.26	27.14	81.5	1022.22	8.76	71.9
25/05/2011 01:50:30.000'	-0.27	27.14	81.5	1022.22	8.81	72.3
25/05/2011 02:50:30.000'	-0.25	27.14	81.4	1022.22	8.81	72.3
25/05/2011 03:50:30.000'	-0.26	27.14	81.3	1022.22	8.82	72.4
25/05/2011 04:50:30.000'	-0.25	27.14	81.3	1022.22	8.82	72.4
25/05/2011 05:50:30.000'	-0.26	27.15	81.3	1022.22	8.82	72.4
25/05/2011 06:50:30.000'	-0.26	27.14	81.2	1022.22	8.87	72.8
25/05/2011 07:50:30.000'	-0.26	27.14	81.2	1022.22	8.87	72.8
25/05/2011 08:50:30.000'	-0.27	27.14	81.2	1022.22	8.87	72.8
25/05/2011 09:50:30.000'	-0.27	27.14	81.3	1022.22	8.89	73.0
25/05/2011 10:50:30.000'	-0.27	27.14	81.3	1022.22	8.89	73.0
25/05/2011 11:50:30.000'	-0.27	27.14	81.3	1022.22	9.13	74.9
25/05/2011 12:50:30.000'	-0.27	27.14	81.3	1022.22	9.14	75.0
25/05/2011 13:50:30.000'	-0.27	27.14	81.3	1022.22	9.13	74.9
25/05/2011 14:50:30.000'	-0.26	27.14	81.3	1022.22	8.97	73.6
25/05/2011 15:50:30.000'	-0.25	27.14	81.3	1022.22	8.72	71.6
25/05/2011 16:50:30.000'	-0.25	27.14	81.3	1022.22	8.70	71.4
25/05/2011 17:50:30.000'	-0.25	27.14	81.3	1022.22	8.70	71.4
25/05/2011 18:50:30.000'	-0.25	27.14	81.3	1022.22	8.64	71.2
25/05/2011 19:50:30.000'	-0.25	27.14	81.4	1022.22	8.67	71.2
25/05/2011 20:50:30.000'	-0.26	27.14	81.4	1022.22	8.73	71.7
25/05/2011 21:50:30.000'	-0.27	27.14	81.5	1022.22	8.84	72.5
25/05/2011 22:50:30.000'	-0.27	27.14	81.5	1022.22	8.88	72.9
25/05/2011 23:50:30.000'	-0.27	27.14	81.5	1022.22	8.99	73.8
26/05/2011 00:50:30.000'	-0.28	27.14	81.5	1022.22	9.11	74.7
26/05/2011 01:50:30.000'	-0.29	27.14	81.5	1022.22	9.15	75.0
26/05/2011 02:50:30.000'	-0.31	27.14	81.4	1022.22	9.15	75.0
26/05/2011 03:50:30.000'	-0.32	27.14	81.4	1022.22	9.22	75.5
26/05/2011 04:50:30.000'	-0.32	27.14	81.3	1022.22	9.17	75.1
26/05/2011 05:50:30.000'	-0.32	27.14	81.3	1022.22	9.17	75.1

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
26/05/2011 06:50:30.000'	-0.32	27.14	81.3	1022.22	9.17	75.1
26/05/2011 07:50:30.000'	-0.32	27.14	81.3	1022.22	9.17	75.1
26/05/2011 08:50:30.000'	-0.30	27.14	81.3	1022.22	9.11	74.7
26/05/2011 09:50:30.000'	-0.30	27.14	81.3	1022.22	9.11	74.7
26/05/2011 10:50:30.000'	-0.29	27.14	81.3	1022.21	9.07	74.4
26/05/2011 11:50:30.000'	-0.29	27.14	81.3	1022.22	9.07	74.4
26/05/2011 12:50:30.000'	-0.30	27.14	81.3	1022.22	9.13	74.8
26/05/2011 13:50:30.000'	-0.32	27.13	81.3	1022.21	9.19	75.3
26/05/2011 14:50:30.000'	-0.32	27.14	81.3	1022.22	9.28	76.0
26/05/2011 15:50:30.000'	-0.32	27.14	81.3	1022.22	9.28	76.0
26/05/2011 16:50:30.000'	-0.32	27.14	81.3	1022.22	9.29	76.1
26/05/2011 17:50:30.000'	-0.32	27.14	81.3	1022.22	9.20	75.4
26/05/2011 18:50:30.000'	-0.32	27.13	81.4	1022.22	9.15	75.0
26/05/2011 19:50:30.000'	-0.32	27.14	81.4	1022.22	9.15	75.0
26/05/2011 20:50:30.000'	-0.32	27.14	81.4	1022.22	9.15	75.0
26/05/2011 21:50:30.000'	-0.32	27.14	81.5	1022.22	9.20	75.4
26/05/2011 22:50:30.000'	-0.32	27.14	81.5	1022.22	9.21	75.5
26/05/2011 23:50:30.000'	-0.33	27.13	81.5	1022.22	9.20	75.4
27/05/2011 00:50:30.000'	-0.31	27.14	81.5	1022.22	9.19	75.4
27/05/2011 01:50:30.000'	-0.30	27.14	81.5	1022.22	9.11	74.7
27/05/2011 02:50:30.000'	-0.30	27.14	81.5	1022.22	9.11	74.7
27/05/2011 03:50:30.000'	-0.30	27.14	81.4	1022.22	9.00	73.8
27/05/2011 04:50:30.000'	-0.30	27.14	81.4	1022.22	9.00	73.8
27/05/2011 05:50:30.000'	-0.28	27.14	81.3	1022.22	8.94	73.6
27/05/2011 06:50:30.000'	-0.28	27.14	81.3	1022.22	8.97	73.6
27/05/2011 07:50:30.000'	-0.28	27.14	81.3	1022.22	8.97	73.6
27/05/2011 08:50:30.000'	-0.27	27.14	81.3	1022.22	8.97	73.6
27/05/2011 09:50:30.000'	-0.26	27.14	81.3	1022.22	8.95	73.4
27/05/2011 10:50:30.000'	-0.26	27.14	81.3	1022.22	8.79	72.1
27/05/2011 11:50:30.000'	-0.26	27.14	81.3	1022.22	8.79	72.1
27/05/2011 12:50:30.000'	-0.26	27.14	81.4	1022.22	8.79	72.1
27/05/2011 13:50:30.000'	-0.26	27.14	81.4	1022.22	8.83	72.4
27/05/2011 14:50:30.000'	-0.26	27.14	81.4	1022.22	8.84	72.5
27/05/2011 15:50:30.000'	-0.26	27.14	81.4	1022.22	8.84	72.5
27/05/2011 16:50:30.000'	-0.26	27.14	81.4	1022.22	8.84	72.5
27/05/2011 17:50:30.000'	-0.26	27.14	81.4	1022.22	8.75	71.8
27/05/2011 18:50:30.000'	-0.26	27.14	81.4	1022.22	8.59	70.5
27/05/2011 19:50:30.000'	-0.26	27.14	81.4	1022.22	8.59	70.5
27/05/2011 20:50:30.000'	-0.26	27.14	81.4	1022.22	8.59	70.5
27/05/2011 21:50:30.000'	-0.26	27.14	81.4	1022.22	8.70	71.4
27/05/2011 22:50:30.000'	-0.27	27.14	81.5	1022.22	8.69	71.3
27/05/2011 23:50:30.000'	-0.28	27.14	81.5	1022.22	8.69	71.3
28/05/2011 00:50:30.000'	-0.29	27.14	81.5	1022.22	8.90	73.0
28/05/2011 01:50:30.000'	-0.29	27.14	81.5	1022.22	8.90	73.0
28/05/2011 02:50:30.000'	-0.29	27.14	81.5	1022.22	8.90	73.0

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
28/05/2011 03:50:30.000'	-0.28	27.14	81.4	1022.22	8.81	72.3
28/05/2011 04:50:30.000'	-0.28	27.14	81.4	1022.22	8.81	72.3
28/05/2011 05:50:30.000'	-0.26	27.14	81.3	1022.22	8.78	72.0
28/05/2011 06:50:30.000'	-0.27	27.14	81.3	1022.22	8.78	72.0
28/05/2011 07:50:30.000'	-0.27	27.14	81.3	1022.22	8.54	70.1
28/05/2011 08:50:30.000'	-0.27	27.14	81.3	1022.22	8.51	69.8
28/05/2011 09:50:30.000'	-0.26	27.14	81.3	1022.22	8.51	69.8
28/05/2011 10:50:30.000'	-0.27	27.14	81.3	1022.22	8.47	69.5
28/05/2011 11:50:30.000'	-0.26	27.14	81.3	1022.22	8.47	69.5
28/05/2011 12:50:30.000'	-0.26	27.14	81.4	1022.22	8.51	69.8
28/05/2011 13:50:30.000'	-0.26	27.14	81.4	1022.22	8.59	70.5
28/05/2011 14:50:30.000'	-0.27	27.14	81.4	1022.22	8.59	70.5
28/05/2011 15:50:30.000'	-0.28	27.14	81.4	1022.22	8.59	70.5
28/05/2011 16:50:30.000'	-0.28	27.14	81.4	1022.22	8.59	70.5
28/05/2011 17:50:30.000'	-0.28	27.14	81.4	1022.22	8.54	70.0
28/05/2011 18:50:30.000'	-0.27	27.14	81.4	1022.22	8.49	69.7
28/05/2011 19:50:30.000'	-0.27	27.14	81.4	1022.22	8.49	69.6
28/05/2011 20:50:30.000'	-0.27	27.14	81.4	1022.22	8.49	69.7
28/05/2011 21:50:30.000'	-0.27	27.14	81.4	1022.22	8.49	69.6
28/05/2011 22:50:30.000'	-0.27	27.14	81.5	1022.22	8.50	69.7
28/05/2011 23:50:30.000'	-0.26	27.14	81.5	1022.22	8.49	69.6
29/05/2011 00:50:30.000'	-0.26	27.13	81.5	1022.21	8.50	69.7
29/05/2011 01:50:30.000'	-0.26	27.13	81.5	1022.21	8.51	69.8
29/05/2011 02:50:30.000'	-0.26	27.13	81.5	1022.21	8.51	69.8
29/05/2011 03:50:30.000'	-0.26	27.13	81.5	1022.21	8.51	69.8
29/05/2011 04:50:30.000'	-0.26	27.13	81.4	1022.21	8.51	69.8
29/05/2011 05:50:30.000'	-0.26	27.13	81.4	1022.21	8.51	69.8
29/05/2011 06:50:30.000'	-0.26	27.14	81.3	1022.22	8.51	69.8
29/05/2011 07:50:30.000'	-0.26	27.14	81.3	1022.21	8.77	72.0
29/05/2011 08:50:30.000'	-0.26	27.14	81.3	1022.22	8.76	71.9
29/05/2011 09:50:30.000'	-0.26	27.14	81.3	1022.22	8.76	71.9
29/05/2011 10:50:30.000'	-0.26	27.14	81.3	1022.22	8.75	71.8
29/05/2011 11:50:30.000'	-0.26	27.14	81.3	1022.22	8.64	70.9
29/05/2011 12:50:30.000'	-0.26	27.14	81.3	1022.22	8.44	69.3
29/05/2011 13:50:30.000'	-0.25	27.14	81.4	1022.22	8.38	68.8
29/05/2011 14:50:30.000'	-0.25	27.14	81.4	1022.22	8.38	68.8
29/05/2011 15:50:30.000'	-0.25	27.14	81.4	1022.22	8.38	68.8
29/05/2011 16:50:30.000'	-0.26	27.14	81.4	1022.22	8.39	68.9
29/05/2011 17:50:30.000'	-0.26	27.14	81.4	1022.22	8.48	69.6
29/05/2011 18:50:30.000'	-0.27	27.14	81.4	1022.22	8.52	69.9
29/05/2011 19:50:30.000'	-0.27	27.14	81.4	1022.22	8.52	69.9
29/05/2011 20:50:30.000'	-0.27	27.14	81.4	1022.22	8.52	69.9
29/05/2011 21:50:30.000'	-0.26	27.14	81.4	1022.22	8.45	69.4
29/05/2011 22:50:30.000'	-0.26	27.14	81.4	1022.22	8.41	69.0
29/05/2011 23:50:30.000'	-0.26	27.14	81.4	1022.22	8.43	69.2

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
30/05/2011 00:50:30.000'	-0.25	27.14	81.4	1022.22	8.40	69.0
30/05/2011 01:50:30.000'	-0.26	27.14	81.4	1022.22	8.40	68.9
30/05/2011 02:50:30.000'	-0.25	27.14	81.4	1022.22	8.40	69.0
30/05/2011 03:50:30.000'	-0.25	27.14	81.4	1022.22	8.38	68.7
30/05/2011 04:50:30.000'	-0.26	27.14	81.4	1022.22	8.49	69.6
30/05/2011 05:50:30.000'	-0.26	27.14	81.3	1022.22	8.47	69.5
30/05/2011 06:50:30.000'	-0.26	27.14	81.3	1022.22	8.46	69.4
30/05/2011 07:50:30.000'	-0.26	27.14	81.2	1022.22	8.48	69.5
30/05/2011 08:50:30.000'	-0.25	27.14	81.2	1022.22	8.46	69.4
30/05/2011 09:50:30.000'	-0.25	27.14	81.2	1022.22	8.36	68.7
30/05/2011 10:50:30.000'	-0.24	27.14	81.2	1022.22	8.29	68.1
30/05/2011 11:50:30.000'	-0.24	27.14	81.3	1022.21	8.29	68.1
30/05/2011 12:50:30.000'	-0.24	27.14	81.3	1022.22	8.29	68.1
30/05/2011 13:50:30.000'	-0.26	27.14	81.4	1022.21	8.49	69.7
30/05/2011 14:50:30.000'	-0.31	27.13	81.4	1022.21	8.59	70.3
30/05/2011 15:50:30.000'	-0.36	27.13	81.5	1022.22	8.86	72.6
30/05/2011 16:50:30.000'	-0.36	27.14	81.5	1022.22	9.18	75.1
30/05/2011 17:50:30.000'	-0.36	27.13	81.5	1022.22	9.21	75.4
30/05/2011 18:50:30.000'	-0.36	27.13	81.5	1022.22	9.21	75.4
30/05/2011 19:50:30.000'	-0.41	27.13	81.5	1022.22	9.26	75.7
30/05/2011 20:50:30.000'	-0.44	27.13	81.5	1022.22	9.26	75.7
30/05/2011 21:50:30.000'	-0.44	27.13	81.5	1022.22	9.26	75.7
30/05/2011 22:50:30.000'	-0.46	27.13	81.5	1022.22	9.31	76.0
30/05/2011 23:50:30.000'	-0.46	27.13	81.5	1022.22	9.39	76.7
31/05/2011 00:50:30.000'	-0.46	27.13	81.5	1022.22	9.39	76.7
31/05/2011 01:50:30.000'	-0.46	27.13	81.5	1022.22	9.52	77.7
31/05/2011 02:50:30.000'	-0.47	27.13	81.5	1022.22	9.63	78.5
31/05/2011 03:50:30.000'	-0.47	27.13	81.5	1022.22	9.71	79.2
31/05/2011 04:50:30.000'	-0.46	27.13	81.5	1022.22	9.52	77.7
31/05/2011 05:50:30.000'	-0.46	27.13	81.5	1022.22	9.52	77.7
31/05/2011 06:50:30.000'	-0.47	27.13	81.4	1022.22	9.39	76.6
31/05/2011 07:50:30.000'	-0.49	27.13	81.4	1022.22	9.39	76.6
31/05/2011 08:50:30.000'	-0.49	27.14	81.3	1022.22	9.39	76.6
31/05/2011 09:50:30.000'	-0.51	27.13	81.3	1022.22	9.59	78.2
31/05/2011 10:50:30.000'	-0.51	27.14	81.3	1022.22	9.61	78.3
31/05/2011 11:50:30.000'	-0.52	27.13	81.3	1022.22	9.59	78.2
31/05/2011 12:50:30.000'	-0.51	27.13	81.4	1022.22	9.55	77.8
31/05/2011 13:50:30.000'	-0.51	27.13	81.4	1022.22	9.55	77.8
31/05/2011 14:50:30.000'	-0.51	27.13	81.5	1022.22	9.53	77.7
31/05/2011 15:50:30.000'	-0.51	27.14	81.5	1022.22	9.60	78.2
31/05/2011 16:50:30.000'	-0.50	27.13	81.6	1022.22	9.62	78.4
31/05/2011 17:50:30.000'	-0.50	27.14	81.6	1022.22	9.61	78.3
31/05/2011 18:50:30.000'	-0.45	27.14	81.6	1022.22	9.33	76.2
31/05/2011 19:50:30.000'	-0.41	27.13	81.5	1022.22	9.08	74.2
31/05/2011 20:50:30.000'	-0.38	27.14	81.5	1022.22	8.89	72.7

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
31/05/2011 21:50:30.000'	-0.38	27.13	81.5	1022.22	8.89	72.7
31/05/2011 22:50:30.000'	-0.38	27.13	81.4	1022.22	8.87	72.6
31/05/2011 23:50:30.000'	-0.41	27.13	81.4	1022.22	8.97	73.3
01/06/2011 00:50:30.000'	-0.44	27.13	81.4	1022.22	9.16	74.9
01/06/2011 01:50:30.000'	-0.44	27.13	81.4	1022.21	9.17	74.9
01/06/2011 02:50:30.000'	-0.43	27.13	81.4	1022.21	9.17	74.9
01/06/2011 03:50:30.000'	-0.45	27.13	81.4	1022.22	9.28	75.7
01/06/2011 04:50:30.000'	-0.48	27.13	81.4	1022.22	9.44	77.0
01/06/2011 05:50:30.000'	-0.58	27.13	81.4	1022.22	9.80	79.7
01/06/2011 06:50:30.000'	-0.61	27.13	81.3	1022.22	9.90	80.4
01/06/2011 07:50:30.000'	-0.62	27.13	81.3	1022.22	9.91	80.6
01/06/2011 08:50:30.000'	-0.62	27.13	81.2	1022.22	10.00	81.3
01/06/2011 09:50:30.000'	-0.64	27.13	81.2	1022.22	10.04	81.5
01/06/2011 10:50:30.000'	-0.64	27.13	81.2	1022.22	10.06	81.7
01/06/2011 11:50:30.000'	-0.64	27.13	81.2	1022.22	10.03	81.5
01/06/2011 12:50:30.000'	-0.64	27.13	81.2	1022.22	10.00	81.2
01/06/2011 13:50:30.000'	-0.63	27.13	81.3	1022.22	9.93	80.7
01/06/2011 14:50:30.000'	-0.61	27.13	81.4	1022.22	9.89	80.4
01/06/2011 15:50:30.000'	-0.59	27.13	81.5	1022.22	9.85	80.1
01/06/2011 16:50:30.000'	-0.58	27.13	81.6	1022.22	9.84	80.0
01/06/2011 17:50:30.000'	-0.58	27.13	81.6	1022.22	9.85	80.1
01/06/2011 18:50:30.000'	-0.59	27.13	81.6	1022.22	9.84	80.0
01/06/2011 19:50:30.000'	-0.62	27.13	81.6	1022.22	9.93	80.7
01/06/2011 20:50:30.000'	-0.63	27.13	81.6	1022.22	9.91	80.5
01/06/2011 21:50:30.000'	-0.65	27.13	81.5	1022.22	9.99	81.1
01/06/2011 22:50:30.000'	-0.65	27.13	81.5	1022.22	9.98	81.1
01/06/2011 23:50:30.000'	-0.65	27.13	81.4	1022.22	9.98	81.0
02/06/2011 00:50:30.000'	-0.67	27.13	81.4	1022.22	9.98	81.1
02/06/2011 01:50:30.000'	-0.68	27.13	81.4	1022.22	10.07	81.7
02/06/2011 02:50:30.000'	-0.68	27.13	81.5	1022.22	10.07	81.7
02/06/2011 03:50:30.000'	-0.68	27.13	81.5	1022.22	10.07	81.7
02/06/2011 04:50:30.000'	-0.67	27.13	81.5	1022.22	9.99	81.1
02/06/2011 05:50:30.000'	-0.65	27.13	81.5	1022.22	9.85	80.0
02/06/2011 06:50:30.000'	-0.60	27.13	81.5	1022.22	9.74	79.4
02/06/2011 07:50:30.000'	-0.57	27.13	81.5	1022.22	9.66	78.8
02/06/2011 08:50:30.000'	-0.57	27.13	81.4	1022.22	9.68	78.8
02/06/2011 09:50:30.000'	-0.60	27.13	81.4	1022.22	9.68	78.8
02/06/2011 10:50:30.000'	-0.66	27.12	81.4	1022.22	9.88	80.2
02/06/2011 11:50:30.000'	-0.66	27.13	81.4	1022.22	9.88	80.2
02/06/2011 12:50:30.000'	-0.66	27.13	81.4	1022.22	9.88	80.2
02/06/2011 13:50:30.000'	-0.64	27.13	81.4	1022.22	9.87	80.2
02/06/2011 14:50:30.000'	-0.64	27.13	81.5	1022.22	9.86	80.2
02/06/2011 15:50:30.000'	-0.63	27.13	81.6	1022.22	9.86	80.2
02/06/2011 16:50:30.000'	-0.62	27.13	81.7	1022.22	9.85	80.0
02/06/2011 17:50:30.000'	-0.62	27.13	81.7	1022.22	9.83	79.9

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
02/06/2011 18:50:30.000'	-0.61	27.13	81.7	1022.22	9.83	79.9
02/06/2011 19:50:30.000'	-0.61	27.13	81.7	1022.22	9.61	78.3
02/06/2011 20:50:30.000'	-0.61	27.13	81.7	1022.22	9.60	78.2
02/06/2011 21:50:30.000'	-0.61	27.13	81.6	1022.22	9.60	78.0
02/06/2011 22:50:30.000'	-0.61	27.13	81.6	1022.22	9.57	77.8
02/06/2011 23:50:30.000'	-0.61	27.13	81.5	1022.22	9.60	78.0
03/06/2011 00:50:30.000'	-0.60	27.13	81.5	1022.22	9.57	77.8
03/06/2011 01:50:30.000'	-0.60	27.13	81.5	1022.22	9.51	77.4
03/06/2011 02:50:30.000'	-0.59	27.13	81.5	1022.22	9.51	77.4
03/06/2011 03:50:30.000'	-0.60	27.13	81.5	1022.22	9.62	78.3
03/06/2011 04:50:30.000'	-0.60	27.13	81.6	1022.22	9.62	78.3
03/06/2011 05:50:30.000'	-0.60	27.13	81.6	1022.22	9.65	78.5
03/06/2011 06:50:30.000'	-0.58	27.13	81.6	1022.22	9.63	78.4
03/06/2011 07:50:30.000'	-0.58	27.13	81.5	1022.22	9.63	78.4
03/06/2011 08:50:30.000'	-0.57	27.13	81.5	1022.22	9.63	78.6
03/06/2011 09:50:30.000'	-0.57	27.13	81.4	1022.22	9.68	78.8
03/06/2011 10:50:30.000'	-0.57	27.13	81.4	1022.22	9.66	78.6
03/06/2011 11:50:30.000'	-0.57	27.13	81.4	1022.22	9.68	78.8
03/06/2011 12:50:30.000'	-0.59	27.13	81.4	1022.22	9.68	78.7
03/06/2011 13:50:30.000'	-0.59	27.13	81.4	1022.22	9.68	78.7
03/06/2011 14:50:30.000'	-0.59	27.13	81.5	1022.22	9.68	78.7
03/06/2011 15:50:30.000'	-0.59	27.13	81.6	1022.22	9.68	78.7
03/06/2011 16:50:30.000'	-0.57	27.13	81.6	1022.22	9.62	78.3
03/06/2011 17:50:30.000'	-0.57	27.13	81.7	1022.22	9.62	78.3
03/06/2011 18:50:30.000'	-0.57	27.13	81.7	1022.22	9.57	77.9
03/06/2011 19:50:30.000'	-0.57	27.13	81.7	1022.22	9.57	77.9
03/06/2011 20:50:30.000'	-0.56	27.13	81.7	1022.22	9.54	77.6
03/06/2011 21:50:30.000'	-0.57	27.13	81.7	1022.22	9.49	77.1
03/06/2011 22:50:30.000'	-0.56	27.13	81.6	1022.22	9.51	77.4
03/06/2011 23:50:30.000'	-0.57	27.13	81.6	1022.22	9.48	77.0
04/06/2011 00:50:30.000'	-0.57	27.13	81.5	1022.22	9.51	77.0
04/06/2011 01:50:30.000'	-0.63	27.13	81.5	1022.22	9.48	77.4
04/06/2011 02:50:30.000'	-0.68	27.13	81.5	1022.22	10.09	81.8
04/06/2011 03:50:30.000'	-0.68	27.13	81.5	1022.22	10.09	81.8
04/06/2011 04:50:30.000'	-0.68	27.13	81.5	1022.22	10.09	81.8
04/06/2011 05:50:30.000'	-0.66	27.13	81.5	1022.22	9.94	80.7
04/06/2011 06:50:30.000'	-0.64	27.13	81.5	1022.22	9.88	80.2
04/06/2011 07:50:30.000'	-0.64	27.13	81.5	1022.22	9.88	80.2
04/06/2011 08:50:30.000'	-0.64	27.13	81.4	1022.22	9.88	80.2
04/06/2011 09:50:30.000'	-0.66	27.13	81.4	1022.22	10.09	81.9
04/06/2011 10:50:30.000'	-0.67	27.13	81.3	1022.22	10.09	81.9
04/06/2011 11:50:30.000'	-0.67	27.13	81.3	1022.22	10.07	81.8
04/06/2011 12:50:30.000'	-0.67	27.13	81.3	1022.22	10.10	82.0
04/06/2011 13:50:30.000'	-0.67	27.13	81.3	1022.22	10.10	82.0
04/06/2011 14:50:30.000'	-0.67	27.13	81.4	1022.22	10.10	82.0

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
04/06/2011 15:50:30.000'	-0.69	27.13	81.4	1022.22	10.10	81.9
04/06/2011 16:50:30.000'	-0.69	27.13	81.5	1022.22	10.10	81.9
04/06/2011 17:50:30.000'	-0.68	27.13	81.6	1022.22	10.10	81.9
04/06/2011 18:50:30.000'	-0.69	27.13	81.6	1022.22	10.10	81.9
04/06/2011 19:50:30.000'	-0.68	27.13	81.6	1022.22	10.12	82.1
04/06/2011 20:50:30.000'	-0.68	27.13	81.6	1022.22	10.09	81.8
04/06/2011 21:50:30.000'	-0.68	27.13	81.6	1022.22	10.06	81.6
04/06/2011 22:50:30.000'	-0.68	27.13	81.5	1022.22	10.00	81.1
04/06/2011 23:50:30.000'	-0.67	27.13	81.5	1022.22	9.97	80.8
05/06/2011 00:50:30.000'	-0.67	27.13	81.4	1022.22	9.97	81.1
05/06/2011 01:50:30.000'	-0.69	27.13	81.4	1022.22	10.00	80.9
05/06/2011 02:50:30.000'	-0.69	27.13	81.4	1022.22	10.00	81.1
05/06/2011 03:50:30.000'	-0.69	27.13	81.4	1022.22	10.17	82.5
05/06/2011 04:50:30.000'	-0.69	27.13	81.4	1022.22	10.17	82.5
05/06/2011 05:50:30.000'	-0.69	27.12	81.4	1022.22	10.16	82.5
05/06/2011 06:50:30.000'	-0.69	27.13	81.4	1022.22	10.09	81.9
05/06/2011 07:50:30.000'	-0.69	27.13	81.4	1022.22	10.07	81.7
05/06/2011 08:50:30.000'	-0.69	27.13	81.4	1022.22	10.09	81.9
05/06/2011 09:50:30.000'	-0.69	27.13	81.4	1022.22	10.08	81.7
05/06/2011 10:50:30.000'	-0.69	27.13	81.4	1022.22	10.08	81.7
05/06/2011 11:50:30.000'	-0.69	27.12	81.3	1022.22	10.08	81.7
05/06/2011 12:50:30.000'	-0.69	27.13	81.3	1022.22	10.08	81.7
05/06/2011 13:50:30.000'	-0.69	27.13	81.3	1022.22	10.10	82.0
05/06/2011 14:50:30.000'	-0.69	27.13	81.3	1022.22	10.10	82.0
05/06/2011 15:50:30.000'	-0.69	27.13	81.4	1022.22	10.12	82.1
05/06/2011 16:50:30.000'	-0.69	27.13	81.5	1022.22	10.10	81.9
05/06/2011 17:50:30.000'	-0.69	27.13	81.6	1022.22	10.11	82.0
05/06/2011 18:50:30.000'	-0.69	27.13	81.6	1022.22	10.11	82.0
05/06/2011 19:50:30.000'	-0.69	27.13	81.7	1022.22	10.11	82.0
05/06/2011 20:50:30.000'	-0.69	27.13	81.7	1022.22	10.04	81.4
05/06/2011 21:50:30.000'	-0.69	27.13	81.7	1022.22	10.04	81.4
05/06/2011 22:50:30.000'	-0.66	27.13	81.6	1022.22	10.05	81.6
05/06/2011 23:50:30.000'	-0.66	27.13	81.6	1022.22	9.94	80.7
06/06/2011 00:50:30.000'	-0.66	27.13	81.5	1022.22	9.96	80.8
06/06/2011 01:50:30.000'	-0.67	27.13	81.5	1022.22	9.96	80.8
06/06/2011 02:50:30.000'	-0.69	27.13	81.5	1022.22	10.07	81.7
06/06/2011 03:50:30.000'	-0.69	27.13	81.5	1022.22	10.10	81.9
06/06/2011 04:50:30.000'	-0.69	27.13	81.5	1022.22	10.10	81.9
06/06/2011 05:50:30.000'	-0.69	27.12	81.5	1022.22	10.08	81.7
06/06/2011 06:50:30.000'	-0.69	27.13	81.5	1022.22	10.10	82.0
06/06/2011 07:50:30.000'	-0.70	27.13	81.5	1022.22	10.10	82.0
06/06/2011 08:50:30.000'	-0.69	27.13	81.5	1022.22	10.10	82.0
06/06/2011 09:50:30.000'	-0.69	27.13	81.5	1022.22	10.07	81.7
06/06/2011 10:50:30.000'	-0.69	27.13	81.4	1022.22	10.06	81.6
06/06/2011 11:50:30.000'	-0.69	27.12	81.4	1022.22	10.07	81.7

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
06/06/2011 12:50:30.000'	-0.68	27.12	81.4	1022.22	10.07	81.7
06/06/2011 13:50:30.000'	-0.68	27.13	81.4	1022.22	10.07	81.7
06/06/2011 14:50:30.000'	-0.67	27.13	81.4	1022.22	10.08	81.8
06/06/2011 15:50:30.000'	-0.67	27.13	81.4	1022.22	10.03	81.4
06/06/2011 16:50:30.000'	-0.67	27.13	81.5	1022.22	10.05	81.6
06/06/2011 17:50:30.000'	-0.66	27.13	81.5	1022.22	10.01	81.2
06/06/2011 18:50:30.000'	-0.63	27.13	81.6	1022.22	9.88	80.3
06/06/2011 19:50:30.000'	-0.63	27.13	81.7	1022.22	9.88	80.3
06/06/2011 20:50:30.000'	-0.63	27.13	81.7	1022.22	9.88	80.3
06/06/2011 21:50:30.000'	-0.63	27.13	81.7	1022.22	9.90	80.5
06/06/2011 22:50:30.000'	-0.63	27.13	81.7	1022.22	9.90	80.5
06/06/2011 23:50:30.000'	-0.63	27.13	81.6	1022.22	9.90	80.5
07/06/2011 00:50:30.000'	-0.63	27.13	81.6	1022.22	9.86	80.1
07/06/2011 01:50:30.000'	-0.63	27.13	81.5	1022.22	9.85	80.0
07/06/2011 02:50:30.000'	-0.63	27.13	81.5	1022.22	9.85	80.0
07/06/2011 03:50:30.000'	-0.63	27.13	81.4	1022.22	9.81	79.7
07/06/2011 04:50:30.000'	-0.63	27.13	81.4	1022.22	9.85	80.0
07/06/2011 05:50:30.000'	-0.64	27.13	81.4	1022.22	9.90	80.4
07/06/2011 06:50:30.000'	-0.63	27.13	81.5	1022.22	9.92	80.6
07/06/2011 07:50:30.000'	-0.63	27.13	81.5	1022.22	9.92	80.6
07/06/2011 08:50:30.000'	-0.63	27.13	81.5	1022.22	9.90	80.4
07/06/2011 09:50:30.000'	-0.63	27.13	81.5	1022.22	9.88	80.2
07/06/2011 10:50:30.000'	-0.63	27.13	81.5	1022.22	9.88	80.2
07/06/2011 11:50:30.000'	-0.63	27.13	81.4	1022.22	9.87	80.2
07/06/2011 12:50:30.000'	-0.63	27.13	81.4	1022.22	9.88	80.2
07/06/2011 13:50:30.000'	-0.63	27.13	81.4	1022.22	9.87	80.2
07/06/2011 14:50:30.000'	-0.63	27.13	81.4	1022.22	9.87	80.2
07/06/2011 15:50:30.000'	-0.63	27.13	81.4	1022.22	9.87	80.2
07/06/2011 16:50:30.000'	-0.64	27.13	81.4	1022.22	9.86	80.1
07/06/2011 17:50:30.000'	-0.64	27.13	81.5	1022.22	9.93	80.6
07/06/2011 18:50:30.000'	-0.64	27.13	81.6	1022.22	9.92	80.5
07/06/2011 19:50:30.000'	-0.65	27.13	81.6	1022.22	9.90	80.4
07/06/2011 20:50:30.000'	-0.65	27.13	81.7	1022.22	9.92	80.5
07/06/2011 21:50:30.000'	-0.65	27.13	81.7	1022.22	9.99	81.1
07/06/2011 22:50:30.000'	-0.65	27.13	81.7	1022.22	9.99	81.4
07/06/2011 23:50:30.000'	-0.65	27.13	81.6	1022.22	10.00	81.2
08/06/2011 00:50:30.000'	-0.66	27.13	81.6	1022.22	9.99	81.1
08/06/2011 01:50:30.000'	-0.66	27.13	81.5	1022.22	9.99	81.1
08/06/2011 02:50:30.000'	-0.66	27.13	81.4	1022.22	9.97	80.9
08/06/2011 03:50:30.000'	-0.66	27.13	81.4	1022.22	9.98	81.1
08/06/2011 04:50:30.000'	-0.66	27.13	81.4	1022.22	9.96	80.8
08/06/2011 05:50:30.000'	-0.66	27.13	81.4	1022.22	9.99	81.1
08/06/2011 06:50:30.000'	-0.66	27.13	81.4	1022.22	9.99	81.1
08/06/2011 07:50:30.000'	-0.66	27.13	81.4	1022.22	10.01	81.3
08/06/2011 08:50:30.000'	-0.66	27.13	81.4	1022.22	10.04	81.5

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
08/06/2011 09:50:30.000'	-0.67	27.13	81.4	1022.22	10.05	81.6
08/06/2011 10:50:30.000'	-0.67	27.13	81.4	1022.22	10.06	81.7
08/06/2011 11:50:30.000'	-0.67	27.13	81.4	1022.22	10.05	81.6
08/06/2011 12:50:30.000'	-0.66	27.13	81.4	1022.22	10.06	81.7
08/06/2011 13:50:30.000'	-0.66	27.13	81.3	1022.22	10.05	81.5
08/06/2011 14:50:30.000'	-0.66	27.13	81.3	1022.22	10.04	81.5
08/06/2011 15:50:30.000'	-0.67	27.13	81.3	1022.22	10.05	81.5
08/06/2011 16:50:30.000'	-0.67	27.13	81.4	1022.22	10.06	81.6
08/06/2011 17:50:30.000'	-0.67	27.13	81.4	1022.22	10.06	81.7
08/06/2011 18:50:30.000'	-0.67	27.13	81.5	1022.22	10.04	81.5
08/06/2011 19:50:30.000'	-0.67	27.13	81.5	1022.22	10.05	81.5
08/06/2011 20:50:30.000'	-0.66	27.13	81.6	1022.22	9.98	81.0
08/06/2011 21:50:30.000'	-0.66	27.13	81.6	1022.22	9.99	81.1
08/06/2011 22:50:30.000'	-0.66	27.13	81.6	1022.22	9.99	81.1
08/06/2011 23:50:30.000'	-0.66	27.13	81.6	1022.22	9.99	81.1
09/06/2011 00:50:30.000'	-0.66	27.13	81.6	1022.22	10.03	81.4
09/06/2011 01:50:30.000'	-0.67	27.13	81.5	1022.22	10.07	81.7
09/06/2011 02:50:30.000'	-0.67	27.13	81.4	1022.22	10.07	81.7
09/06/2011 03:50:30.000'	-0.67	27.13	81.4	1022.22	10.07	81.7
09/06/2011 04:50:30.000'	-0.67	27.13	81.3	1022.22	10.07	81.7
09/06/2011 05:50:30.000'	-0.67	27.13	81.3	1022.22	10.09	81.8
09/06/2011 06:50:30.000'	-0.67	27.13	81.3	1022.22	10.04	81.5
09/06/2011 07:50:30.000'	-0.67	27.13	81.3	1022.22	10.04	81.5
09/06/2011 08:50:30.000'	-0.68	27.13	81.4	1022.22	10.04	81.5
09/06/2011 09:50:30.000'	-0.68	27.13	81.4	1022.22	10.10	82.0
09/06/2011 10:50:30.000'	-0.69	27.13	81.4	1022.22	10.12	82.1
09/06/2011 11:50:30.000'	-0.69	27.13	81.4	1022.22	10.10	82.0
09/06/2011 12:50:30.000'	-0.68	27.13	81.4	1022.22	10.13	82.2
09/06/2011 13:50:30.000'	-0.68	27.13	81.4	1022.22	10.11	82.0
09/06/2011 14:50:30.000'	-0.68	27.13	81.4	1022.22	10.11	82.0
09/06/2011 15:50:30.000'	-0.68	27.13	81.4	1022.22	10.12	82.1
09/06/2011 16:50:30.000'	-0.68	27.13	81.4	1022.22	10.13	82.2
09/06/2011 17:50:30.000'	-0.68	27.13	81.4	1022.22	10.09	81.9
09/06/2011 18:50:30.000'	-0.68	27.13	81.4	1022.22	10.09	81.9
09/06/2011 19:50:30.000'	-0.68	27.13	81.5	1022.22	10.09	81.9
09/06/2011 20:50:30.000'	-0.68	27.13	81.6	1022.22	10.08	81.8
09/06/2011 21:50:30.000'	-0.68	27.13	81.6	1022.22	10.09	81.9
09/06/2011 22:50:30.000'	-0.68	27.13	81.6	1022.22	10.15	82.4
09/06/2011 23:50:30.000'	-0.68	27.13	81.6	1022.22	10.16	82.4
10/06/2011 00:50:30.000'	-0.68	27.13	81.6	1022.22	10.15	82.4
10/06/2011 01:50:30.000'	-0.68	27.13	81.5	1022.22	10.17	82.5
10/06/2011 02:50:30.000'	-0.68	27.13	81.5	1022.22	10.16	82.4
10/06/2011 03:50:30.000'	-0.68	27.13	81.4	1022.22	10.16	82.4
10/06/2011 04:50:30.000'	-0.68	27.13	81.3	1022.22	10.14	82.3
10/06/2011 05:50:30.000'	-0.69	27.13	81.3	1022.22	10.17	82.5

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
10/06/2011 06:50:30.000'	-0.70	27.13	81.3	1022.22	10.17	82.4
10/06/2011 07:50:30.000'	-0.70	27.13	81.3	1022.22	10.16	82.4
10/06/2011 08:50:30.000'	-0.70	27.13	81.3	1022.22	10.18	82.6
10/06/2011 09:50:30.000'	-0.69	27.13	81.3	1022.22	10.05	81.6
10/06/2011 10:50:30.000'	-0.68	27.13	81.4	1022.22	10.05	81.6
10/06/2011 11:50:30.000'	-0.67	27.13	81.4	1022.22	10.01	81.2
10/06/2011 12:50:30.000'	-0.67	27.13	81.4	1022.22	10.01	81.3
10/06/2011 13:50:30.000'	-0.67	27.13	81.4	1022.22	10.00	81.2
10/06/2011 14:50:30.000'	-0.68	27.13	81.4	1022.22	10.08	81.8
10/06/2011 15:50:30.000'	-0.68	27.13	81.4	1022.22	10.04	81.5
10/06/2011 16:50:30.000'	-0.69	27.13	81.4	1022.22	10.15	82.3
10/06/2011 17:50:30.000'	-0.72	27.13	81.4	1022.22	10.17	82.5
10/06/2011 18:50:30.000'	-0.72	27.13	81.4	1022.22	10.17	82.4
10/06/2011 19:50:30.000'	-0.72	27.13	81.4	1022.22	10.17	82.4
10/06/2011 20:50:30.000'	-0.71	27.13	81.5	1022.22	10.21	82.8
10/06/2011 21:50:30.000'	-0.72	27.13	81.6	1022.22	10.22	82.9
10/06/2011 22:50:30.000'	-0.71	27.13	81.6	1022.22	10.21	82.8
10/06/2011 23:50:30.000'	-0.73	27.13	81.6	1022.23	10.25	83.1
11/06/2011 00:50:30.000'	-0.73	27.13	81.6	1022.23	10.28	83.3
11/06/2011 01:50:30.000'	-0.73	27.13	81.6	1022.22	10.25	83.1
11/06/2011 02:50:30.000'	-0.73	27.13	81.5	1022.23	10.20	82.7
11/06/2011 03:50:30.000'	-0.72	27.13	81.4	1022.22	10.19	82.6
11/06/2011 04:50:30.000'	-0.72	27.13	81.4	1022.22	10.20	82.6
11/06/2011 05:50:30.000'	-0.72	27.13	81.3	1022.22	10.20	82.6
11/06/2011 06:50:30.000'	-0.72	27.13	81.3	1022.22	10.24	83.0
11/06/2011 07:50:30.000'	-0.73	27.14	81.3	1022.23	10.26	83.1
11/06/2011 08:50:30.000'	-0.73	27.13	81.3	1022.22	10.23	82.9
11/06/2011 09:50:30.000'	-0.74	27.14	81.3	1022.23	10.27	83.2
11/06/2011 10:50:30.000'	-0.73	27.14	81.4	1022.23	10.23	82.9
11/06/2011 11:50:30.000'	-0.72	27.13	81.4	1022.23	10.15	82.3
11/06/2011 12:50:30.000'	-0.72	27.13	81.4	1022.22	10.17	82.4
11/06/2011 13:50:30.000'	-0.72	27.14	81.5	1022.23	10.17	82.4
11/06/2011 14:50:30.000'	-0.73	27.13	81.5	1022.23	10.20	82.7
11/06/2011 15:50:30.000'	-0.74	27.13	81.5	1022.23	10.27	83.2
11/06/2011 16:50:30.000'	-0.76	27.13	81.5	1022.22	10.30	83.4
11/06/2011 17:50:30.000'	-0.76	27.13	81.5	1022.23	10.30	83.4
11/06/2011 18:50:30.000'	-0.76	27.14	81.5	1022.23	10.30	83.4
11/06/2011 19:50:30.000'	-0.76	27.13	81.5	1022.23	10.28	83.2
11/06/2011 20:50:30.000'	-0.74	27.13	81.5	1022.22	10.27	83.2
11/06/2011 21:50:30.000'	-0.74	27.13	81.5	1022.22	10.26	83.1
11/06/2011 22:50:30.000'	-0.74	27.13	81.6	1022.22	10.29	83.3
11/06/2011 23:50:30.000'	-0.74	27.14	81.6	1022.23	10.26	83.1
12/06/2011 00:50:30.000'	-0.74	27.13	81.6	1022.23	10.28	83.3
12/06/2011 01:50:30.000'	-0.74	27.13	81.6	1022.23	10.26	83.1
12/06/2011 02:50:30.000'	-0.75	27.13	81.5	1022.23	10.28	83.3

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
12/06/2011 03:50:30.000'	-0.74	27.14	81.5	1022.23	10.26	83.1
12/06/2011 04:50:30.000'	-0.74	27.14	81.4	1022.23	10.28	83.3
12/06/2011 05:50:30.000'	-0.74	27.14	81.4	1022.23	10.32	83.6
12/06/2011 06:50:30.000'	-0.74	27.14	81.3	1022.23	10.30	83.5
12/06/2011 07:50:30.000'	-0.74	27.14	81.3	1022.23	10.31	83.6
12/06/2011 08:50:30.000'	-0.74	27.14	81.3	1022.23	10.30	83.4
12/06/2011 09:50:30.000'	-0.74	27.14	81.3	1022.23	10.28	83.3
12/06/2011 10:50:30.000'	-0.75	27.13	81.4	1022.23	10.30	83.4
12/06/2011 11:50:30.000'	-0.75	27.14	81.4	1022.23	10.28	83.3
12/06/2011 12:50:30.000'	-0.76	27.14	81.5	1022.23	10.32	83.5
12/06/2011 13:50:30.000'	-0.76	27.14	81.5	1022.23	10.32	83.6
12/06/2011 14:50:30.000'	-0.76	27.14	81.5	1022.23	10.32	83.6
12/06/2011 15:50:30.000'	-0.76	27.14	81.5	1022.23	10.33	83.7
12/06/2011 16:50:30.000'	-0.78	27.14	81.5	1022.23	10.37	83.9
12/06/2011 17:50:30.000'	-0.78	27.14	81.5	1022.23	10.37	83.9
12/06/2011 18:50:30.000'	-0.78	27.14	81.5	1022.23	10.39	84.0
12/06/2011 19:50:30.000'	-0.78	27.14	81.5	1022.23	10.37	83.9
12/06/2011 20:50:30.000'	-0.78	27.14	81.5	1022.23	10.36	83.8
12/06/2011 21:50:30.000'	-0.78	27.13	81.5	1022.23	10.36	83.8
12/06/2011 22:50:30.000'	-0.77	27.14	81.5	1022.23	10.34	83.7
12/06/2011 23:50:30.000'	-0.77	27.14	81.6	1022.23	10.36	83.8
13/06/2011 00:50:30.000'	-0.75	27.14	81.6	1022.23	10.27	83.1
13/06/2011 01:50:30.000'	-0.75	27.14	81.6	1022.23	10.23	82.9
13/06/2011 02:50:30.000'	-0.75	27.14	81.6	1022.23	10.27	83.1
13/06/2011 03:50:30.000'	-0.75	27.14	81.5	1022.23	10.26	83.1
13/06/2011 04:50:30.000'	-0.75	27.13	81.5	1022.22	10.26	83.1
13/06/2011 05:50:30.000'	-0.75	27.14	81.4	1022.23	10.23	82.8
13/06/2011 06:50:30.000'	-0.75	27.14	81.3	1022.23	10.23	82.9
13/06/2011 07:50:30.000'	-0.75	27.14	81.3	1022.23	10.24	82.9
13/06/2011 08:50:30.000'	-0.75	27.14	81.3	1022.23	10.25	83.0
13/06/2011 09:50:30.000'	-0.75	27.14	81.3	1022.23	10.25	83.0
13/06/2011 10:50:30.000'	-0.75	27.14	81.3	1022.23	10.27	83.2
13/06/2011 11:50:30.000'	-0.75	27.14	81.4	1022.23	10.27	83.2
13/06/2011 12:50:30.000'	-0.75	27.14	81.4	1022.23	10.28	83.2
13/06/2011 13:50:30.000'	-0.75	27.14	81.5	1022.23	10.24	83.0
13/06/2011 14:50:30.000'	-0.76	27.14	81.5	1022.23	10.28	83.2
13/06/2011 15:50:30.000'	-0.76	27.14	81.5	1022.23	10.28	83.2
13/06/2011 16:50:30.000'	-0.76	27.14	81.5	1022.23	10.28	83.2
13/06/2011 17:50:30.000'	-0.77	27.14	81.5	1022.23	10.31	83.5
13/06/2011 18:50:30.000'	-0.78	27.14	81.5	1022.23	10.33	83.6
13/06/2011 19:50:30.000'	-0.78	27.13	81.5	1022.23	10.34	83.6
13/06/2011 20:50:30.000'	-0.79	27.14	81.5	1022.23	10.37	83.9
13/06/2011 21:50:30.000'	-0.80	27.14	81.5	1022.23	10.40	84.1
13/06/2011 22:50:30.000'	-0.80	27.13	81.5	1022.23	10.39	84.1
13/06/2011 23:50:30.000'	-0.81	27.14	81.5	1022.23	10.42	84.3

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
14/06/2011 00:50:30.000'	-0.81	27.13	81.5	1022.23	10.41	84.1
14/06/2011 01:50:30.000'	-0.81	27.14	81.5	1022.23	10.41	84.1
14/06/2011 02:50:30.000'	-0.75	27.14	81.5	1022.23	10.27	83.2
14/06/2011 03:50:30.000'	-0.75	27.14	81.5	1022.23	10.26	83.1
14/06/2011 04:50:30.000'	-0.75	27.14	81.5	1022.23	10.26	83.1
14/06/2011 05:50:30.000'	-0.76	27.14	81.4	1022.23	10.26	83.1
14/06/2011 06:50:30.000'	-0.76	27.14	81.4	1022.23	10.24	82.9
14/06/2011 07:50:30.000'	-0.76	27.14	81.3	1022.23	10.27	83.2
14/06/2011 08:50:30.000'	-0.77	27.14	81.3	1022.23	10.28	83.2
14/06/2011 09:50:30.000'	-0.76	27.14	81.3	1022.23	10.27	83.1
14/06/2011 10:50:30.000'	-0.76	27.14	81.3	1022.23	10.26	83.1
14/06/2011 11:50:30.000'	-0.76	27.14	81.3	1022.23	10.24	82.9
14/06/2011 12:50:30.000'	-0.75	27.14	81.4	1022.23	10.21	82.7
14/06/2011 13:50:30.000'	-0.75	27.14	81.5	1022.23	10.21	82.7
14/06/2011 14:50:30.000'	-0.75	27.14	81.5	1022.23	10.18	82.5
14/06/2011 15:50:30.000'	-0.76	27.14	81.6	1022.23	10.28	83.2
14/06/2011 16:50:30.000'	-0.83	27.14	81.6	1022.23	10.45	84.5
14/06/2011 17:50:30.000'	-0.85	27.14	81.6	1022.23	10.55	85.2
14/06/2011 18:50:30.000'	-0.86	27.14	81.5	1022.23	10.55	85.2
14/06/2011 19:50:30.000'	-0.85	27.14	81.5	1022.23	10.54	85.1
14/06/2011 20:50:30.000'	-0.85	27.14	81.5	1022.23	10.52	85.0
14/06/2011 21:50:30.000'	-0.85	27.14	81.4	1022.23	10.47	84.6
14/06/2011 22:50:30.000'	-0.84	27.14	81.4	1022.23	10.49	84.7
14/06/2011 23:50:30.000'	-0.84	27.14	81.4	1022.23	10.45	84.4
15/06/2011 00:50:30.000'	-0.84	27.14	81.5	1022.23	10.47	84.6
15/06/2011 01:50:30.000'	-0.84	27.14	81.5	1022.23	10.48	84.7
15/06/2011 02:50:30.000'	-0.84	27.14	81.5	1022.23	10.47	84.6
15/06/2011 03:50:30.000'	-0.84	27.14	81.5	1022.23	10.48	84.7
15/06/2011 04:50:30.000'	-0.84	27.14	81.5	1022.23	10.49	84.7
15/06/2011 05:50:30.000'	-0.85	27.14	81.5	1022.23	10.50	84.8
15/06/2011 06:50:30.000'	-0.84	27.14	81.4	1022.23	10.49	84.7
15/06/2011 07:50:30.000'	-0.84	27.14	81.4	1022.23	10.49	84.8
15/06/2011 08:50:30.000'	-0.85	27.14	81.3	1022.23	10.50	84.8
15/06/2011 09:50:30.000'	-0.85	27.14	81.3	1022.23	10.49	84.7
15/06/2011 10:50:30.000'	-0.85	27.14	81.3	1022.23	10.49	84.7
15/06/2011 11:50:30.000'	-0.85	27.14	81.3	1022.23	10.50	84.8
15/06/2011 12:50:30.000'	-0.85	27.14	81.4	1022.23	10.49	84.7
15/06/2011 13:50:30.000'	-0.85	27.14	81.4	1022.23	10.49	84.7
15/06/2011 14:50:30.000'	-0.84	27.14	81.5	1022.23	10.49	84.7
15/06/2011 15:50:30.000'	-0.84	27.14	81.6	1022.23	10.49	84.7
15/06/2011 16:50:30.000'	-0.84	27.14	81.6	1022.23	10.50	84.7
15/06/2011 17:50:30.000'	-0.83	27.14	81.6	1022.23	10.48	84.6
15/06/2011 18:50:30.000'	-0.83	27.14	81.6	1022.23	10.46	84.5
15/06/2011 19:50:30.000'	-0.83	27.14	81.6	1022.23	10.47	84.5
15/06/2011 20:50:30.000'	-0.83	27.14	81.5	1022.23	10.49	84.7

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
15/06/2011 21:50:30.000'	-0.83	27.14	81.5	1022.23	10.48	84.6
15/06/2011 22:50:30.000'	-0.83	27.15	81.5	1022.24	10.43	84.3
15/06/2011 23:50:30.000'	-0.84	27.14	81.5	1022.24	10.45	84.4
16/06/2011 00:50:30.000'	-0.84	27.14	81.5	1022.24	10.45	84.5
16/06/2011 01:50:30.000'	-0.84	27.14	81.5	1022.23	10.47	84.6
16/06/2011 02:50:30.000'	-0.83	27.14	81.5	1022.23	10.45	84.5
16/06/2011 03:50:30.000'	-0.83	27.14	81.5	1022.24	10.48	84.7
16/06/2011 04:50:30.000'	-0.83	27.14	81.5	1022.23	10.44	84.4
16/06/2011 05:50:30.000'	-0.82	27.14	81.5	1022.23	10.42	84.2
16/06/2011 06:50:30.000'	-0.82	27.14	81.4	1022.23	10.42	84.2
16/06/2011 07:50:30.000'	-0.82	27.14	81.4	1022.23	10.42	84.2
16/06/2011 08:50:30.000'	-0.83	27.14	81.3	1022.23	10.42	84.2
16/06/2011 09:50:30.000'	-0.84	27.14	81.3	1022.23	10.48	84.7
16/06/2011 10:50:30.000'	-0.85	27.14	81.3	1022.23	10.47	84.6
16/06/2011 11:50:30.000'	-0.85	27.14	81.3	1022.23	10.48	84.7
16/06/2011 12:50:30.000'	-0.84	27.14	81.3	1022.23	10.49	84.7
16/06/2011 13:50:30.000'	-0.84	27.14	81.4	1022.23	10.49	84.7
16/06/2011 14:50:30.000'	-0.83	27.14	81.4	1022.24	10.49	84.7
16/06/2011 15:50:30.000'	-0.83	27.14	81.5	1022.24	10.48	84.6
16/06/2011 16:50:30.000'	-0.83	27.14	81.6	1022.24	10.51	84.9
16/06/2011 17:50:30.000'	-0.83	27.15	81.6	1022.24	10.49	84.8
16/06/2011 18:50:30.000'	-0.82	27.15	81.6	1022.24	10.44	84.4
16/06/2011 19:50:30.000'	-0.82	27.15	81.6	1022.24	10.44	84.4
16/06/2011 20:50:30.000'	-0.82	27.15	81.6	1022.24	10.44	84.4
16/06/2011 21:50:30.000'	-0.82	27.15	81.5	1022.24	10.44	84.4
16/06/2011 22:50:30.000'	-0.82	27.15	81.5	1022.24	10.41	84.1
16/06/2011 23:50:30.000'	-0.82	27.15	81.4	1022.24	10.43	84.3
17/06/2011 00:50:30.000'	-0.82	27.15	81.4	1022.24	10.43	84.3
17/06/2011 01:50:30.000'	-0.82	27.15	81.4	1022.24	10.44	84.4
17/06/2011 02:50:30.000'	-0.82	27.15	81.4	1022.24	10.41	84.1
17/06/2011 03:50:30.000'	-0.82	27.15	81.5	1022.24	10.40	84.1
17/06/2011 04:50:30.000'	-0.82	27.15	81.5	1022.24	10.40	84.1
17/06/2011 05:50:30.000'	-0.82	27.15	81.5	1022.24	10.39	84.0
17/06/2011 06:50:30.000'	-0.82	27.15	81.5	1022.24	10.39	84.0
17/06/2011 07:50:30.000'	-0.82	27.15	81.4	1022.24	10.40	84.1
17/06/2011 08:50:30.000'	-0.82	27.15	81.4	1022.24	10.36	83.8
17/06/2011 09:50:30.000'	-0.82	27.15	81.3	1022.24	10.33	83.5
17/06/2011 10:50:30.000'	-0.82	27.15	81.3	1022.24	10.33	83.5
17/06/2011 11:50:30.000'	-0.82	27.15	81.3	1022.24	10.32	83.4
17/06/2011 12:50:30.000'	-0.82	27.15	81.3	1022.24	10.33	83.5
17/06/2011 13:50:30.000'	-0.82	27.15	81.3	1022.24	10.37	83.8
17/06/2011 14:50:30.000'	-0.81	27.15	81.4	1022.24	10.38	83.9
17/06/2011 15:50:30.000'	-0.82	27.15	81.5	1022.24	10.39	84.0
17/06/2011 16:50:30.000'	-0.81	27.15	81.6	1022.24	10.44	84.4
17/06/2011 17:50:30.000'	-0.81	27.15	81.6	1022.24	10.39	84.3

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
17/06/2011 18:50:30.000'	-0.81	27.16	81.6	1022.25	10.42	84.2
17/06/2011 19:50:30.000'	-0.81	27.15	81.6	1022.24	10.42	84.3
17/06/2011 20:50:30.000'	-0.82	27.15	81.6	1022.24	10.42	84.2
17/06/2011 21:50:30.000'	-0.81	27.16	81.6	1022.25	10.41	84.2
17/06/2011 22:50:30.000'	-0.81	27.16	81.5	1022.25	10.41	84.1
17/06/2011 23:50:30.000'	-0.82	27.15	81.4	1022.24	10.39	84.0
18/06/2011 00:50:30.000'	-0.82	27.15	81.4	1022.24	10.43	84.3
18/06/2011 01:50:30.000'	-0.82	27.15	81.4	1022.24	10.43	84.3
18/06/2011 02:50:30.000'	-0.82	27.15	81.4	1022.24	10.41	84.1
18/06/2011 03:50:30.000'	-0.82	27.15	81.4	1022.24	10.39	84.0
18/06/2011 04:50:30.000'	-0.82	27.15	81.4	1022.24	10.35	83.7
18/06/2011 05:50:30.000'	-0.82	27.15	81.4	1022.24	10.37	83.9
18/06/2011 06:50:30.000'	-0.82	27.15	81.4	1022.24	10.38	83.9
18/06/2011 07:50:30.000'	-0.82	27.15	81.4	1022.24	10.37	83.8
18/06/2011 08:50:30.000'	-0.82	27.15	81.4	1022.24	10.38	83.9
18/06/2011 09:50:30.000'	-0.82	27.15	81.3	1022.24	10.37	83.9
18/06/2011 10:50:30.000'	-0.82	27.15	81.3	1022.24	10.36	83.7
18/06/2011 11:50:30.000'	-0.81	27.15	81.3	1022.24	10.31	83.4
18/06/2011 12:50:30.000'	-0.81	27.15	81.3	1022.24	10.32	83.4
18/06/2011 13:50:30.000'	-0.81	27.15	81.3	1022.24	10.30	83.3
18/06/2011 14:50:30.000'	-0.82	27.15	81.3	1022.24	10.32	83.4
18/06/2011 15:50:30.000'	-0.82	27.15	81.4	1022.24	10.39	84.0
18/06/2011 16:50:30.000'	-0.82	27.15	81.5	1022.24	10.37	83.8
18/06/2011 17:50:30.000'	-0.82	27.15	81.6	1022.24	10.40	84.1
18/06/2011 18:50:30.000'	-0.82	27.15	81.6	1022.24	10.41	84.1
18/06/2011 19:50:30.000'	-0.82	27.16	81.6	1022.25	10.41	84.1
18/06/2011 20:50:30.000'	-0.82	27.16	81.6	1022.25	10.41	84.2
18/06/2011 21:50:30.000'	-0.82	27.15	81.6	1022.24	10.43	84.3
18/06/2011 22:50:30.000'	-0.82	27.16	81.5	1022.24	10.41	84.1
18/06/2011 23:50:30.000'	-0.82	27.16	81.5	1022.25	10.39	84.0
19/06/2011 00:50:30.000'	-0.82	27.15	81.4	1022.24	10.41	84.1
19/06/2011 01:50:30.000'	-0.82	27.15	81.4	1022.24	10.42	84.3
19/06/2011 02:50:30.000'	-0.82	27.15	81.4	1022.24	10.37	83.8
19/06/2011 03:50:30.000'	-0.82	27.15	81.4	1022.24	10.35	83.7
19/06/2011 04:50:30.000'	-0.82	27.15	81.4	1022.24	10.33	83.5
19/06/2011 05:50:30.000'	-0.81	27.16	81.4	1022.24	10.33	83.5
19/06/2011 06:50:30.000'	-0.81	27.16	81.4	1022.24	10.33	83.6
19/06/2011 07:50:30.000'	-0.81	27.15	81.4	1022.24	10.35	83.7
19/06/2011 08:50:30.000'	-0.81	27.16	81.4	1022.24	10.33	83.5
19/06/2011 09:50:30.000'	-0.81	27.16	81.4	1022.24	10.32	83.4
19/06/2011 10:50:30.000'	-0.81	27.15	81.3	1022.24	10.30	83.3
19/06/2011 11:50:30.000'	-0.81	27.15	81.3	1022.24	10.25	82.9
19/06/2011 12:50:30.000'	-0.81	27.15	81.3	1022.24	10.26	82.9
19/06/2011 13:50:30.000'	-0.81	27.16	81.3	1022.24	10.25	82.9
19/06/2011 14:50:30.000'	-0.82	27.15	81.3	1022.24	10.29	83.2

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
19/06/2011 15:50:30.000'	-0.82	27.15	81.4	1022.24	10.37	83.8
19/06/2011 16:50:30.000'	-0.82	27.15	81.5	1022.24	10.37	83.8
19/06/2011 17:50:30.000'	-0.82	27.15	81.6	1022.24	10.40	84.0
19/06/2011 18:50:30.000'	-0.81	27.16	81.6	1022.25	10.36	83.7
19/06/2011 19:50:30.000'	-0.82	27.15	81.6	1022.24	10.39	84.0
19/06/2011 20:50:30.000'	-0.81	27.16	81.6	1022.25	10.37	83.9
19/06/2011 21:50:30.000'	-0.82	27.16	81.6	1022.25	10.38	83.9
19/06/2011 22:50:30.000'	-0.82	27.16	81.6	1022.25	10.38	83.9
19/06/2011 23:50:30.000'	-0.82	27.16	81.5	1022.25	10.34	83.6
20/06/2011 00:50:30.000'	-0.82	27.16	81.5	1022.24	10.34	83.6
20/06/2011 01:50:30.000'	-0.82	27.15	81.4	1022.24	10.34	83.6
20/06/2011 02:50:30.000'	-0.82	27.15	81.4	1022.24	10.41	84.2
20/06/2011 03:50:30.000'	-0.82	27.16	81.4	1022.25	10.41	84.2
20/06/2011 04:50:30.000'	-0.82	27.16	81.4	1022.25	10.40	84.1
20/06/2011 05:50:30.000'	-0.81	27.16	81.4	1022.25	10.35	83.7
20/06/2011 06:50:30.000'	-0.81	27.15	81.4	1022.24	10.33	83.5
20/06/2011 07:50:30.000'	-0.81	27.16	81.4	1022.24	10.33	83.5
20/06/2011 08:50:30.000'	-0.81	27.16	81.4	1022.25	10.32	83.4
20/06/2011 09:50:30.000'	-0.81	27.16	81.4	1022.24	10.31	83.3
20/06/2011 10:50:30.000'	-0.81	27.16	81.4	1022.24	10.25	82.9
20/06/2011 11:50:30.000'	-0.81	27.16	81.4	1022.25	10.27	83.0
20/06/2011 12:50:30.000'	-0.81	27.16	81.4	1022.24	10.24	82.8
20/06/2011 13:50:30.000'	-0.82	27.16	81.4	1022.24	10.27	83.0
20/06/2011 14:50:30.000'	-0.82	27.16	81.4	1022.24	10.35	83.7
20/06/2011 15:50:30.000'	-0.82	27.16	81.4	1022.24	10.38	83.9
20/06/2011 16:50:30.000'	-0.82	27.16	81.5	1022.24	10.34	83.6
20/06/2011 17:50:30.000'	-0.82	27.16	81.6	1022.25	10.38	83.9
20/06/2011 18:50:30.000'	-0.81	27.16	81.6	1022.25	10.33	83.6
20/06/2011 19:50:30.000'	-0.81	27.16	81.7	1022.25	10.36	83.8
20/06/2011 20:50:30.000'	-0.81	27.16	81.7	1022.25	10.37	83.8
20/06/2011 21:50:30.000'	-0.81	27.16	81.7	1022.25	10.38	84.0
20/06/2011 22:50:30.000'	-0.81	27.16	81.7	1022.25	10.37	83.9
20/06/2011 23:50:30.000'	-0.82	27.16	81.6	1022.25	10.37	83.9
21/06/2011 00:50:30.000'	-0.82	27.16	81.5	1022.25	10.38	83.9
21/06/2011 01:50:30.000'	-0.81	27.16	81.5	1022.25	10.38	83.9
21/06/2011 02:50:30.000'	-0.81	27.16	81.4	1022.25	10.36	83.8
21/06/2011 03:50:30.000'	-0.82	27.16	81.4	1022.25	10.39	84.0
21/06/2011 04:50:30.000'	-0.81	27.16	81.4	1022.25	10.39	84.0
21/06/2011 05:50:30.000'	-0.81	27.16	81.4	1022.25	10.37	83.9
21/06/2011 06:50:30.000'	-0.81	27.16	81.4	1022.25	10.29	83.2
21/06/2011 07:50:30.000'	-0.81	27.16	81.4	1022.25	10.28	83.1
21/06/2011 08:50:30.000'	-0.81	27.16	81.4	1022.25	10.28	83.1
21/06/2011 09:50:30.000'	-0.81	27.16	81.4	1022.25	10.27	83.0
21/06/2011 10:50:30.000'	-0.81	27.16	81.4	1022.25	10.28	83.1
21/06/2011 11:50:30.000'	-0.81	27.16	81.4	1022.25	10.28	83.2

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
21/06/2011 12:50:30.000'	-0.82	27.16	81.3	1022.25	10.31	83.3
21/06/2011 13:50:30.000'	-0.81	27.16	81.3	1022.25	10.32	83.4
21/06/2011 14:50:30.000'	-0.81	27.16	81.3	1022.25	10.34	83.6
21/06/2011 15:50:30.000'	-0.81	27.16	81.4	1022.25	10.34	83.6
21/06/2011 16:50:30.000'	-0.81	27.16	81.4	1022.25	10.35	83.7
21/06/2011 17:50:30.000'	-0.81	27.16	81.5	1022.25	10.34	83.6
21/06/2011 18:50:30.000'	-0.81	27.16	81.6	1022.25	10.35	83.7
21/06/2011 19:50:30.000'	-0.81	27.16	81.6	1022.25	10.30	83.3
21/06/2011 20:50:30.000'	-0.81	27.16	81.6	1022.25	10.30	83.3
21/06/2011 21:50:30.000'	-0.80	27.16	81.6	1022.25	10.30	83.3
21/06/2011 22:50:30.000'	-0.80	27.17	81.6	1022.25	10.30	83.3
21/06/2011 23:50:30.000'	-0.80	27.16	81.6	1022.25	10.29	83.2
22/06/2011 00:50:30.000'	-0.80	27.16	81.5	1022.25	10.31	83.4
22/06/2011 01:50:30.000'	-0.80	27.16	81.5	1022.25	10.32	83.4
22/06/2011 02:50:30.000'	-0.80	27.16	81.4	1022.25	10.32	83.5
22/06/2011 03:50:30.000'	-0.81	27.16	81.4	1022.25	10.32	83.5
22/06/2011 04:50:30.000'	-0.81	27.16	81.4	1022.25	10.33	83.6
22/06/2011 05:50:30.000'	-0.81	27.16	81.4	1022.25	10.32	83.5
22/06/2011 06:50:30.000'	-0.81	27.16	81.4	1022.25	10.28	83.2
22/06/2011 07:50:30.000'	-0.80	27.16	81.4	1022.25	10.28	83.2
22/06/2011 08:50:30.000'	-0.80	27.16	81.4	1022.25	10.28	83.2
22/06/2011 09:50:30.000'	-0.80	27.16	81.4	1022.25	10.20	82.5
22/06/2011 10:50:30.000'	-0.80	27.16	81.4	1022.25	10.19	82.4
22/06/2011 11:50:30.000'	-0.80	27.16	81.4	1022.25	10.22	82.7
22/06/2011 12:50:30.000'	-0.80	27.16	81.3	1022.25	10.22	82.7
22/06/2011 13:50:30.000'	-0.80	27.17	81.3	1022.25	10.26	83.0
22/06/2011 14:50:30.000'	-0.81	27.16	81.3	1022.25	10.26	83.0
22/06/2011 15:50:30.000'	-0.81	27.16	81.3	1022.25	10.32	83.5
22/06/2011 16:50:30.000'	-0.81	27.16	81.4	1022.25	10.33	83.6
22/06/2011 17:50:30.000'	-0.80	27.17	81.4	1022.25	10.29	83.3
22/06/2011 18:50:30.000'	-0.81	27.16	81.5	1022.25	10.30	83.3
22/06/2011 19:50:30.000'	-0.80	27.16	81.5	1022.25	10.30	83.3
22/06/2011 20:50:30.000'	-0.81	27.16	81.6	1022.25	10.30	83.3
22/06/2011 21:50:30.000'	-0.81	27.16	81.6	1022.25	10.30	83.3
22/06/2011 22:50:30.000'	-0.81	27.16	81.6	1022.25	10.31	83.4
22/06/2011 23:50:30.000'	-0.80	27.17	81.6	1022.25	10.30	83.3
23/06/2011 00:50:30.000'	-0.80	27.16	81.6	1022.25	10.32	83.5
23/06/2011 01:50:30.000'	-0.80	27.17	81.5	1022.25	10.30	83.3
23/06/2011 02:50:30.000'	-0.80	27.17	81.4	1022.25	10.29	83.2
23/06/2011 03:50:30.000'	-0.80	27.17	81.4	1022.25	10.32	83.5
23/06/2011 04:50:30.000'	-0.80	27.17	81.4	1022.25	10.29	83.2
23/06/2011 05:50:30.000'	-0.80	27.17	81.4	1022.26	10.29	83.2
23/06/2011 06:50:30.000'	-0.80	27.17	81.4	1022.25	10.28	83.1
23/06/2011 07:50:30.000'	-0.80	27.17	81.4	1022.25	10.27	83.0
23/06/2011 08:50:30.000'	-0.80	27.17	81.4	1022.25	10.28	83.2

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
23/06/2011 09:50:30.000'	-0.81	27.17	81.4	1022.25	10.26	83.0
23/06/2011 10:50:30.000'	-0.80	27.17	81.4	1022.25	10.29	83.2
23/06/2011 11:50:30.000'	-0.80	27.17	81.4	1022.25	10.28	83.1
23/06/2011 12:50:30.000'	-0.80	27.17	81.3	1022.25	10.26	83.0
23/06/2011 13:50:30.000'	-0.80	27.17	81.3	1022.25	10.26	83.0
23/06/2011 14:50:30.000'	-0.81	27.17	81.3	1022.25	10.24	82.8
23/06/2011 15:50:30.000'	-0.81	27.16	81.3	1022.25	10.30	83.3
23/06/2011 16:50:30.000'	-0.81	27.17	81.3	1022.25	10.30	83.3
23/06/2011 17:50:30.000'	-0.81	27.17	81.4	1022.25	10.29	83.3
23/06/2011 18:50:30.000'	-0.81	27.17	81.4	1022.25	10.31	83.4
23/06/2011 19:50:30.000'	-0.81	27.17	81.5	1022.25	10.32	83.4
23/06/2011 20:50:30.000'	-0.81	27.17	81.5	1022.25	10.31	83.4
23/06/2011 21:50:30.000'	-0.81	27.16	81.6	1022.25	10.29	83.2
23/06/2011 22:50:30.000'	-0.80	27.16	81.6	1022.25	10.27	83.1
23/06/2011 23:50:30.000'	-0.80	27.17	81.6	1022.25	10.28	83.2
24/06/2011 00:50:30.000'	-0.81	27.16	81.5	1022.25	10.29	83.2
24/06/2011 01:50:30.000'	-0.81	27.16	81.5	1022.25	10.31	83.4
24/06/2011 02:50:30.000'	-0.80	27.16	81.4	1022.25	10.30	83.3
24/06/2011 03:50:30.000'	-0.81	27.17	81.4	1022.25	10.28	83.2
24/06/2011 04:50:30.000'	-0.81	27.17	81.3	1022.25	10.28	83.2
24/06/2011 05:50:30.000'	-0.81	27.17	81.3	1022.25	10.31	83.4
24/06/2011 06:50:30.000'	-0.81	27.17	81.3	1022.25	10.32	83.4
24/06/2011 07:50:30.000'	-0.80	27.17	81.3	1022.25	10.31	83.4
24/06/2011 08:50:30.000'	-0.81	27.17	81.3	1022.25	10.31	83.4
24/06/2011 09:50:30.000'	-0.81	27.17	81.3	1022.25	10.29	83.2
24/06/2011 10:50:30.000'	-0.80	27.17	81.3	1022.25	10.26	83.0
24/06/2011 11:50:30.000'	-0.81	27.16	81.4	1022.25	10.24	82.8
24/06/2011 12:50:30.000'	-0.81	27.17	81.4	1022.25	10.21	82.8
24/06/2011 13:50:30.000'	-0.81	27.17	81.4	1022.25	10.22	82.6
24/06/2011 14:50:30.000'	-0.81	27.16	81.4	1022.25	10.26	82.9
24/06/2011 15:50:30.000'	-0.81	27.17	81.4	1022.25	10.25	82.9
24/06/2011 16:50:30.000'	-0.81	27.17	81.4	1022.25	10.24	82.8
24/06/2011 17:50:30.000'	-0.81	27.17	81.4	1022.25	10.23	82.8
24/06/2011 18:50:30.000'	-0.81	27.17	81.4	1022.25	10.25	82.9
24/06/2011 19:50:30.000'	-0.81	27.16	81.5	1022.25	10.28	83.2
24/06/2011 20:50:30.000'	-0.81	27.17	81.6	1022.25	10.28	83.1
24/06/2011 21:50:30.000'	-0.81	27.16	81.6	1022.25	10.26	83.0
24/06/2011 22:50:30.000'	-0.81	27.17	81.6	1022.25	10.23	82.7
24/06/2011 23:50:30.000'	-0.81	27.17	81.6	1022.25	10.24	82.8
25/06/2011 00:50:30.000'	-0.81	27.16	81.6	1022.25	10.23	82.7
25/06/2011 01:50:30.000'	-0.81	27.16	81.5	1022.25	10.27	83.1
25/06/2011 02:50:30.000'	-0.81	27.16	81.5	1022.25	10.27	83.0
25/06/2011 03:50:30.000'	-0.81	27.17	81.4	1022.25	10.27	83.1
25/06/2011 04:50:30.000'	-0.81	27.17	81.4	1022.25	10.25	82.9
25/06/2011 05:50:30.000'	-0.81	27.17	81.3	1022.25	10.24	82.8

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
25/06/2011 06:50:30.000'	-0.81	27.17	81.3	1022.25	10.27	83.1
25/06/2011 07:50:30.000'	-0.81	27.16	81.3	1022.25	10.26	83.0
25/06/2011 08:50:30.000'	-0.81	27.16	81.3	1022.25	10.27	83.0
25/06/2011 09:50:30.000'	-0.81	27.17	81.3	1022.25	10.25	82.9
25/06/2011 10:50:30.000'	-0.81	27.17	81.4	1022.25	10.22	82.7
25/06/2011 11:50:30.000'	-0.81	27.17	81.4	1022.25	10.25	82.9
25/06/2011 12:50:30.000'	-0.81	27.16	81.4	1022.25	10.27	83.1
25/06/2011 13:50:30.000'	-0.81	27.16	81.5	1022.25	10.27	83.1
25/06/2011 14:50:30.000'	-0.81	27.17	81.5	1022.25	10.28	83.1
25/06/2011 15:50:30.000'	-0.80	27.17	81.5	1022.25	10.25	82.9
25/06/2011 16:50:30.000'	-0.80	27.17	81.5	1022.26	10.27	83.1
25/06/2011 17:50:30.000'	-0.80	27.17	81.5	1022.25	10.23	82.7
25/06/2011 18:50:30.000'	-0.80	27.16	81.5	1022.25	10.19	82.4
25/06/2011 19:50:30.000'	-0.81	27.17	81.5	1022.25	10.20	82.5
25/06/2011 20:50:30.000'	-0.81	27.17	81.5	1022.25	10.23	82.7
25/06/2011 21:50:30.000'	-0.81	27.17	81.5	1022.25	10.25	82.9
25/06/2011 22:50:30.000'	-0.81	27.17	81.5	1022.25	10.25	82.9
25/06/2011 23:50:30.000'	-0.81	27.17	81.5	1022.25	10.25	82.9
26/06/2011 00:50:30.000'	-0.81	27.17	81.5	1022.25	10.24	82.8
26/06/2011 01:50:30.000'	-0.81	27.17	81.5	1022.25	10.25	82.9
26/06/2011 02:50:30.000'	-0.82	27.17	81.5	1022.25	10.29	83.2
26/06/2011 03:50:30.000'	-0.81	27.17	81.4	1022.25	10.27	83.0
26/06/2011 04:50:30.000'	-0.82	27.17	81.4	1022.25	10.28	83.1
26/06/2011 05:50:30.000'	-0.82	27.17	81.3	1022.25	10.28	83.1
26/06/2011 06:50:30.000'	-0.82	27.17	81.3	1022.25	10.27	83.0
26/06/2011 07:50:30.000'	-0.82	27.17	81.3	1022.25	10.30	83.3
26/06/2011 08:50:30.000'	-0.82	27.17	81.3	1022.25	10.27	83.0
26/06/2011 09:50:30.000'	-0.82	27.17	81.3	1022.25	10.31	83.3
26/06/2011 10:50:30.000'	-0.82	27.17	81.3	1022.25	10.31	83.3
26/06/2011 11:50:30.000'	-0.82	27.17	81.4	1022.26	10.31	83.4
26/06/2011 12:50:30.000'	-0.82	27.17	81.4	1022.26	10.31	83.3
26/06/2011 13:50:30.000'	-0.82	27.17	81.5	1022.26	10.28	83.1
26/06/2011 14:50:30.000'	-0.82	27.17	81.5	1022.26	10.30	83.3
26/06/2011 15:50:30.000'	-0.82	27.17	81.5	1022.26	10.30	83.3
26/06/2011 16:50:30.000'	-0.82	27.17	81.5	1022.26	10.29	83.2
26/06/2011 17:50:30.000'	-0.82	27.17	81.5	1022.26	10.28	83.1
26/06/2011 18:50:30.000'	-0.82	27.17	81.5	1022.26	10.26	82.9
26/06/2011 19:50:30.000'	-0.82	27.17	81.5	1022.26	10.27	83.1
26/06/2011 20:50:30.000'	-0.82	27.17	81.5	1022.26	10.28	83.1
26/06/2011 21:50:30.000'	-0.82	27.17	81.5	1022.26	10.27	83.1
26/06/2011 22:50:30.000'	-0.82	27.17	81.5	1022.26	10.29	83.2
26/06/2011 23:50:30.000'	-0.82	27.17	81.5	1022.26	10.28	83.1
27/06/2011 00:50:30.000'	-0.82	27.17	81.5	1022.26	10.30	83.3
27/06/2011 01:50:30.000'	-0.82	27.17	81.5	1022.26	10.28	83.1
27/06/2011 02:50:30.000'	-0.82	27.17	81.5	1022.26	10.29	83.2

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
27/06/2011 03:50:30.000'	-0.82	27.17	81.4	1022.26	10.32	83.4
27/06/2011 04:50:30.000'	-0.82	27.17	81.4	1022.26	10.30	83.3
27/06/2011 05:50:30.000'	-0.82	27.17	81.3	1022.26	10.30	83.3
27/06/2011 06:50:30.000'	-0.82	27.17	81.3	1022.26	10.30	83.2
27/06/2011 07:50:30.000'	-0.82	27.17	81.2	1022.26	10.32	83.4
27/06/2011 08:50:30.000'	-0.82	27.18	81.2	1022.26	10.31	83.4
27/06/2011 09:50:30.000'	-0.82	27.17	81.2	1022.26	10.32	83.5
27/06/2011 10:50:30.000'	-0.83	27.17	81.3	1022.26	10.34	83.6
27/06/2011 11:50:30.000'	-0.82	27.17	81.3	1022.26	10.34	83.6
27/06/2011 12:50:30.000'	-0.82	27.17	81.4	1022.26	10.34	83.6
27/06/2011 13:50:30.000'	-0.82	27.17	81.4	1022.26	10.34	83.6
27/06/2011 14:50:30.000'	-0.82	27.17	81.4	1022.26	10.33	83.5
27/06/2011 15:50:30.000'	-0.82	27.17	81.4	1022.26	10.32	83.5
27/06/2011 16:50:30.000'	-0.82	27.17	81.4	1022.26	10.32	83.4
27/06/2011 17:50:30.000'	-0.82	27.17	81.4	1022.26	10.32	83.4
27/06/2011 18:50:30.000'	-0.82	27.17	81.4	1022.26	10.32	83.4
27/06/2011 19:50:30.000'	-0.83	27.17	81.4	1022.26	10.33	83.5
27/06/2011 20:50:30.000'	-0.83	27.17	81.4	1022.26	10.31	83.4
27/06/2011 21:50:30.000'	-0.83	27.17	81.4	1022.26	10.29	83.2
27/06/2011 22:50:30.000'	-0.83	27.17	81.4	1022.26	10.26	82.9
27/06/2011 23:50:30.000'	-0.83	27.17	81.5	1022.26	10.29	83.2
28/06/2011 00:50:30.000'	-0.83	27.17	81.5	1022.26	10.29	83.2
28/06/2011 01:50:30.000'	-0.83	27.18	81.5	1022.26	10.32	83.4
28/06/2011 02:50:30.000'	-0.83	27.18	81.5	1022.26	10.32	83.5
28/06/2011 03:50:30.000'	-0.83	27.17	81.4	1022.26	10.31	83.4
28/06/2011 04:50:30.000'	-0.83	27.17	81.4	1022.26	10.29	83.2
28/06/2011 05:50:30.000'	-0.83	27.18	81.3	1022.26	10.29	83.2
28/06/2011 06:50:30.000'	-0.83	27.18	81.3	1022.26	10.26	82.9
28/06/2011 07:50:30.000'	-0.83	27.17	81.2	1022.26	10.26	82.9
28/06/2011 08:50:30.000'	-0.83	27.18	81.2	1022.26	10.26	82.9
28/06/2011 09:50:30.000'	-0.83	27.18	81.2	1022.26	10.25	82.9
28/06/2011 10:50:30.000'	-0.83	27.18	81.2	1022.26	10.24	82.8
28/06/2011 11:50:30.000'	-0.83	27.18	81.3	1022.26	10.25	82.8
28/06/2011 12:50:30.000'	-0.83	27.18	81.3	1022.26	10.31	83.3
28/06/2011 13:50:30.000'	-0.83	27.17	81.4	1022.26	10.30	83.3
28/06/2011 14:50:30.000'	-0.83	27.18	81.5	1022.26	10.30	83.3
28/06/2011 15:50:30.000'	-0.83	27.18	81.5	1022.26	10.29	83.2
28/06/2011 16:50:30.000'	-0.83	27.17	81.5	1022.26	10.30	83.3
28/06/2011 17:50:30.000'	-0.83	27.17	81.5	1022.26	10.32	83.4
28/06/2011 18:50:30.000'	-0.83	27.17	81.5	1022.26	10.31	83.3
28/06/2011 19:50:30.000'	-0.83	27.18	81.5	1022.26	10.30	83.3
28/06/2011 20:50:30.000'	-0.83	27.18	81.5	1022.26	10.32	83.4
28/06/2011 21:50:30.000'	-0.83	27.17	81.4	1022.26	10.30	83.3
28/06/2011 22:50:30.000'	-0.82	27.17	81.4	1022.26	10.30	83.3
28/06/2011 23:50:30.000'	-0.82	27.17	81.4	1022.26	10.28	83.1

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
29/06/2011 00:50:30.000'	-0.83	27.18	81.4	1022.26	10.30	83.3
29/06/2011 01:50:30.000'	-0.83	27.18	81.4	1022.26	10.27	83.0
29/06/2011 02:50:30.000'	-0.83	27.17	81.4	1022.26	10.27	83.0
29/06/2011 03:50:30.000'	-0.83	27.18	81.4	1022.26	10.27	83.0
29/06/2011 04:50:30.000'	-0.83	27.18	81.4	1022.26	10.27	83.0
29/06/2011 05:50:30.000'	-0.83	27.18	81.3	1022.26	10.27	83.0
29/06/2011 06:50:30.000'	-0.83	27.17	81.3	1022.26	10.28	83.1
29/06/2011 07:50:30.000'	-0.83	27.17	81.2	1022.26	10.31	83.3
29/06/2011 08:50:30.000'	-0.84	27.18	81.2	1022.26	10.34	83.6
29/06/2011 09:50:30.000'	-0.84	27.18	81.2	1022.26	10.33	83.5
29/06/2011 10:50:30.000'	-0.84	27.17	81.2	1022.26	10.32	83.4
29/06/2011 11:50:30.000'	-0.84	27.18	81.3	1022.26	10.34	83.6
29/06/2011 12:50:30.000'	-0.84	27.17	81.4	1022.26	10.32	83.4
29/06/2011 13:50:30.000'	-0.84	27.18	81.4	1022.26	10.31	83.3
29/06/2011 14:50:30.000'	-0.84	27.18	81.5	1022.26	10.29	83.2
29/06/2011 15:50:30.000'	-0.84	27.18	81.6	1022.26	10.28	83.1
29/06/2011 16:50:30.000'	-0.84	27.18	81.6	1022.26	10.26	82.9
29/06/2011 17:50:30.000'	-0.84	27.17	81.6	1022.26	10.23	82.6
29/06/2011 18:50:30.000'	-0.84	27.17	81.6	1022.26	10.22	82.6
29/06/2011 19:50:30.000'	-0.84	27.18	81.5	1022.26	10.20	82.4
29/06/2011 20:50:30.000'	-0.84	27.18	81.5	1022.26	10.22	82.6
29/06/2011 21:50:30.000'	-0.84	27.18	81.5	1022.26	10.24	82.7
29/06/2011 22:50:30.000'	-0.84	27.18	81.4	1022.26	10.28	83.1
29/06/2011 23:50:30.000'	-0.84	27.17	81.4	1022.26	10.25	82.8
30/06/2011 00:50:30.000'	-0.84	27.17	81.4	1022.26	10.28	83.1
30/06/2011 01:50:30.000'	-0.84	27.18	81.4	1022.26	10.30	83.3
30/06/2011 02:50:30.000'	-0.84	27.18	81.4	1022.26	10.32	83.4
30/06/2011 03:50:30.000'	-0.84	27.18	81.4	1022.26	10.30	83.3
30/06/2011 04:50:30.000'	-0.84	27.18	81.4	1022.26	10.33	83.5
30/06/2011 05:50:30.000'	-0.84	27.18	81.4	1022.26	10.32	83.4
30/06/2011 06:50:30.000'	-0.84	27.18	81.3	1022.26	10.32	83.4
30/06/2011 07:50:30.000'	-0.83	27.18	81.3	1022.26	10.31	83.4
30/06/2011 08:50:30.000'	-0.82	27.18	81.2	1022.26	10.20	82.5
30/06/2011 09:50:30.000'	-0.82	27.18	81.2	1022.26	10.17	82.2
30/06/2011 10:50:30.000'	-0.82	27.18	81.2	1022.26	10.15	82.1
30/06/2011 11:50:30.000'	-0.82	27.18	81.3	1022.26	10.15	82.1
30/06/2011 12:50:30.000'	-0.83	27.18	81.3	1022.26	10.15	82.1
30/06/2011 13:50:30.000'	-0.83	27.17	81.4	1022.26	10.17	82.2
30/06/2011 14:50:30.000'	-0.83	27.17	81.5	1022.26	10.17	82.2
30/06/2011 15:50:30.000'	-0.82	27.18	81.6	1022.26	10.17	82.2
30/06/2011 16:50:30.000'	-0.82	27.18	81.6	1022.26	10.13	81.9
30/06/2011 17:50:30.000'	-0.82	27.18	81.6	1022.26	10.13	81.9
30/06/2011 18:50:30.000'	-0.82	27.18	81.6	1022.26	10.08	81.5
30/06/2011 19:50:30.000'	-0.82	27.18	81.6	1022.26	10.09	81.6
30/06/2011 20:50:30.000'	-0.82	27.17	81.6	1022.26	10.09	81.6

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
30/06/2011 21:50:30.000'	-0.82	27.18	81.5	1022.26	10.09	81.6
30/06/2011 22:50:30.000'	-0.82	27.17	81.5	1022.26	10.09	81.6
30/06/2011 23:50:30.000'	-0.83	27.17	81.5	1022.26	10.15	82.0
01/07/2011 00:50:30.000'	-0.83	27.17	81.5	1022.26	10.26	82.9
01/07/2011 01:50:30.000'	-0.83	27.18	81.5	1022.26	10.26	83.0
01/07/2011 02:50:30.000'	-0.83	27.18	81.5	1022.26	10.23	82.7
01/07/2011 03:50:30.000'	-0.83	27.18	81.5	1022.26	10.19	82.4
01/07/2011 04:50:30.000'	-0.82	27.18	81.5	1022.26	10.15	82.1
01/07/2011 05:50:30.000'	-0.82	27.18	81.5	1022.26	10.14	82.0
01/07/2011 06:50:30.000'	-0.82	27.18	81.4	1022.26	10.14	82.0
01/07/2011 07:50:30.000'	-0.82	27.18	81.4	1022.26	10.14	82.0
01/07/2011 08:50:30.000'	-0.82	27.18	81.3	1022.26	10.21	82.6
01/07/2011 09:50:30.000'	-0.81	27.18	81.3	1022.26	10.21	82.6
01/07/2011 10:50:30.000'	-0.81	27.18	81.3	1022.26	10.24	82.8
01/07/2011 11:50:30.000'	-0.81	27.18	81.3	1022.26	10.21	82.6
01/07/2011 12:50:30.000'	-0.82	27.18	81.3	1022.26	10.19	82.4
01/07/2011 13:50:30.000'	-0.82	27.18	81.4	1022.26	10.17	82.3
01/07/2011 14:50:30.000'	-0.82	27.18	81.5	1022.26	10.19	82.4
01/07/2011 15:50:30.000'	-0.82	27.18	81.6	1022.26	10.17	82.3
01/07/2011 16:50:30.000'	-0.82	27.18	81.6	1022.26	10.19	82.4
01/07/2011 17:50:30.000'	-0.82	27.18	81.6	1022.27	10.16	82.2
01/07/2011 18:50:30.000'	-0.82	27.18	81.6	1022.27	10.13	81.9
01/07/2011 19:50:30.000'	-0.82	27.18	81.6	1022.27	10.09	81.6
01/07/2011 20:50:30.000'	-0.82	27.18	81.6	1022.26	10.11	81.8
01/07/2011 21:50:30.000'	-0.82	27.18	81.5	1022.27	10.11	81.7
01/07/2011 22:50:30.000'	-0.82	27.18	81.5	1022.26	10.11	81.8
01/07/2011 23:50:30.000'	-0.82	27.18	81.4	1022.27	10.17	82.2
02/07/2011 00:50:30.000'	-0.82	27.18	81.4	1022.26	10.18	82.3
02/07/2011 01:50:30.000'	-0.82	27.18	81.4	1022.26	10.20	82.4
02/07/2011 02:50:30.000'	-0.82	27.18	81.4	1022.26	10.18	82.3
02/07/2011 03:50:30.000'	-0.82	27.18	81.4	1022.27	10.18	82.3
02/07/2011 04:50:30.000'	-0.82	27.18	81.4	1022.26	10.18	82.3
02/07/2011 05:50:30.000'	-0.82	27.18	81.4	1022.26	10.21	82.5
02/07/2011 06:50:30.000'	-0.82	27.18	81.4	1022.26	10.25	82.9
02/07/2011 07:50:30.000'	-0.83	27.18	81.4	1022.27	10.30	83.3
02/07/2011 08:50:30.000'	-0.83	27.18	81.3	1022.27	10.31	83.4
02/07/2011 09:50:30.000'	-0.83	27.18	81.3	1022.26	10.35	83.6
02/07/2011 10:50:30.000'	-0.83	27.18	81.3	1022.26	10.34	83.5
02/07/2011 11:50:30.000'	-0.83	27.18	81.3	1022.26	10.34	83.6
02/07/2011 12:50:30.000'	-0.83	27.18	81.3	1022.26	10.34	83.6
02/07/2011 13:50:30.000'	-0.83	27.18	81.3	1022.26	10.33	83.5
02/07/2011 14:50:30.000'	-0.84	27.18	81.4	1022.26	10.33	83.5
02/07/2011 15:50:30.000'	-0.83	27.18	81.5	1022.26	10.33	83.5
02/07/2011 16:50:30.000'	-0.84	27.18	81.6	1022.26	10.35	83.6
02/07/2011 17:50:30.000'	-0.83	27.18	81.6	1022.26	10.35	83.7

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
02/07/2011 18:50:30.000'	-0.83	27.18	81.6	1022.27	10.34	83.6
02/07/2011 19:50:30.000'	-0.83	27.18	81.6	1022.26	10.32	83.4
02/07/2011 20:50:30.000'	-0.83	27.18	81.6	1022.26	10.30	83.3
02/07/2011 21:50:30.000'	-0.82	27.18	81.6	1022.27	10.18	82.3
02/07/2011 22:50:30.000'	-0.82	27.18	81.5	1022.27	10.18	82.4
02/07/2011 23:50:30.000'	-0.82	27.19	81.5	1022.27	10.17	82.2
03/07/2011 00:50:30.000'	-0.81	27.19	81.5	1022.27	10.15	82.1
03/07/2011 01:50:30.000'	-0.82	27.18	81.5	1022.27	10.15	82.1
03/07/2011 02:50:30.000'	-0.82	27.18	81.5	1022.27	10.14	82.0
03/07/2011 03:50:30.000'	-0.82	27.18	81.5	1022.27	10.16	82.2
03/07/2011 04:50:30.000'	-0.82	27.18	81.5	1022.27	10.15	82.0
03/07/2011 05:50:30.000'	-0.82	27.18	81.5	1022.27	10.13	81.9
03/07/2011 06:50:30.000'	-0.82	27.18	81.5	1022.27	10.15	82.1
03/07/2011 07:50:30.000'	-0.82	27.18	81.4	1022.27	10.17	82.2
03/07/2011 08:50:30.000'	-0.82	27.18	81.4	1022.27	10.17	82.2
03/07/2011 09:50:30.000'	-0.82	27.18	81.3	1022.27	10.19	82.4
03/07/2011 10:50:30.000'	-0.82	27.19	81.3	1022.27	10.19	82.4
03/07/2011 11:50:30.000'	-0.82	27.18	81.3	1022.27	10.20	82.5
03/07/2011 12:50:30.000'	-0.82	27.19	81.3	1022.27	10.13	81.9
03/07/2011 13:50:30.000'	-0.81	27.19	81.4	1022.27	10.13	81.9
03/07/2011 14:50:30.000'	-0.80	27.19	81.4	1022.27	10.04	81.2
03/07/2011 15:50:30.000'	-0.80	27.18	81.5	1022.27	10.04	81.2
03/07/2011 16:50:30.000'	-0.80	27.18	81.6	1022.27	10.04	81.2
03/07/2011 17:50:30.000'	-0.81	27.18	81.6	1022.27	10.05	81.3
03/07/2011 18:50:30.000'	-0.83	27.18	81.6	1022.27	10.11	81.7
03/07/2011 19:50:30.000'	-0.84	27.18	81.6	1022.27	10.23	82.7
03/07/2011 20:50:30.000'	-0.84	27.18	81.6	1022.26	10.25	82.8
03/07/2011 21:50:30.000'	-0.84	27.18	81.6	1022.26	10.29	83.1
03/07/2011 22:50:30.000'	-0.84	27.18	81.5	1022.26	10.30	83.2
03/07/2011 23:50:30.000'	-0.84	27.18	81.5	1022.26	10.29	83.1
04/07/2011 00:50:30.000'	-0.84	27.18	81.4	1022.26	10.30	83.2
04/07/2011 01:50:30.000'	-0.84	27.18	81.4	1022.27	10.24	82.8
04/07/2011 02:50:30.000'	-0.83	27.18	81.4	1022.26	10.22	82.6
04/07/2011 03:50:30.000'	-0.84	27.18	81.4	1022.26	10.24	82.8
04/07/2011 04:50:30.000'	-0.83	27.18	81.4	1022.26	10.25	82.8
04/07/2011 05:50:30.000'	-0.84	27.18	81.4	1022.26	10.23	82.7
04/07/2011 06:50:30.000'	-0.83	27.18	81.4	1022.27	10.21	82.5
04/07/2011 07:50:30.000'	-0.83	27.18	81.4	1022.26	10.20	82.4
04/07/2011 08:50:30.000'	-0.83	27.18	81.4	1022.26	10.22	82.6
04/07/2011 09:50:30.000'	-0.83	27.18	81.3	1022.26	10.24	82.8
04/07/2011 10:50:30.000'	-0.83	27.18	81.3	1022.26	10.20	82.5
04/07/2011 11:50:30.000'	-0.83	27.18	81.3	1022.26	10.23	82.7
04/07/2011 12:50:30.000'	-0.83	27.18	81.3	1022.27	10.25	82.9
04/07/2011 13:50:30.000'	-0.83	27.18	81.3	1022.26	10.25	82.9
04/07/2011 14:50:30.000'	-0.83	27.18	81.3	1022.26	10.27	83.0

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
04/07/2011 15:50:30.000'	-0.83	27.18	81.4	1022.26	10.25	82.9
04/07/2011 16:50:30.000'	-0.83	27.18	81.5	1022.27	10.23	82.7
04/07/2011 17:50:30.000'	-0.83	27.18	81.6	1022.27	10.23	82.7
04/07/2011 18:50:30.000'	-0.83	27.18	81.6	1022.26	10.22	82.6
04/07/2011 19:50:30.000'	-0.84	27.18	81.6	1022.27	10.22	82.6
04/07/2011 20:50:30.000'	-0.84	27.18	81.6	1022.26	10.24	82.7
04/07/2011 21:50:30.000'	-0.84	27.18	81.6	1022.26	10.25	82.9
04/07/2011 22:50:30.000'	-0.84	27.18	81.5	1022.26	10.24	82.7
04/07/2011 23:50:30.000'	-0.84	27.18	81.5	1022.26	10.24	82.8
05/07/2011 00:50:30.000'	-0.84	27.18	81.4	1022.26	10.27	83.0
05/07/2011 01:50:30.000'	-0.84	27.18	81.4	1022.26	10.24	82.8
05/07/2011 02:50:30.000'	-0.84	27.18	81.4	1022.26	10.26	82.9
05/07/2011 03:50:30.000'	-0.84	27.18	81.4	1022.26	10.26	82.9
05/07/2011 04:50:30.000'	-0.84	27.18	81.4	1022.26	10.29	83.1
05/07/2011 05:50:30.000'	-0.84	27.18	81.4	1022.26	10.28	83.1
05/07/2011 06:50:30.000'	-0.84	27.18	81.4	1022.26	10.28	83.1
05/07/2011 07:50:30.000'	-0.84	27.18	81.4	1022.27	10.28	83.1
05/07/2011 08:50:30.000'	-0.84	27.18	81.4	1022.26	10.25	82.9
05/07/2011 09:50:30.000'	-0.83	27.18	81.4	1022.26	10.24	82.8
05/07/2011 10:50:30.000'	-0.83	27.18	81.3	1022.27	10.24	82.8
05/07/2011 11:50:30.000'	-0.83	27.18	81.3	1022.26	10.24	82.8
05/07/2011 12:50:30.000'	-0.83	27.18	81.3	1022.27	10.24	82.8
05/07/2011 13:50:30.000'	-0.83	27.18	81.3	1022.27	10.27	83.0
05/07/2011 14:50:30.000'	-0.83	27.18	81.3	1022.26	10.22	82.6
05/07/2011 15:50:30.000'	-0.83	27.18	81.4	1022.27	10.22	82.6
05/07/2011 16:50:30.000'	-0.83	27.18	81.5	1022.27	10.24	82.8
05/07/2011 17:50:30.000'	-0.83	27.19	81.6	1022.27	10.23	82.7
05/07/2011 18:50:30.000'	-0.82	27.19	81.6	1022.27	10.20	82.5
05/07/2011 19:50:30.000'	-0.82	27.19	81.7	1022.27	10.19	82.4
05/07/2011 20:50:30.000'	-0.82	27.19	81.7	1022.27	10.19	82.4
05/07/2011 21:50:30.000'	-0.81	27.19	81.7	1022.28	10.18	82.3
05/07/2011 22:50:30.000'	-0.81	27.19	81.6	1022.28	10.10	81.7
05/07/2011 23:50:30.000'	-0.81	27.19	81.5	1022.28	10.10	81.7
06/07/2011 00:50:30.000'	-0.81	27.19	81.5	1022.28	10.10	81.7
06/07/2011 01:50:30.000'	-0.81	27.20	81.4	1022.28	10.12	81.9
06/07/2011 02:50:30.000'	-0.81	27.19	81.4	1022.28	10.16	82.2
06/07/2011 03:50:30.000'	-0.81	27.19	81.4	1022.27	10.16	82.2
06/07/2011 04:50:30.000'	-0.81	27.19	81.4	1022.28	10.18	82.4
06/07/2011 05:50:30.000'	-0.81	27.19	81.4	1022.27	10.16	82.2
06/07/2011 06:50:30.000'	-0.81	27.19	81.4	1022.27	10.16	82.2
06/07/2011 07:50:30.000'	-0.82	27.19	81.4	1022.27	10.17	82.2
06/07/2011 08:50:30.000'	-0.82	27.19	81.4	1022.27	10.24	82.8
06/07/2011 09:50:30.000'	-0.82	27.19	81.4	1022.27	10.22	82.7
06/07/2011 10:50:30.000'	-0.82	27.19	81.4	1022.27	10.21	82.6
06/07/2011 11:50:30.000'	-0.82	27.19	81.4	1022.27	10.18	82.4

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
06/07/2011 12:50:30.000'	-0.81	27.19	81.3	1022.27	10.16	82.2
06/07/2011 13:50:30.000'	-0.81	27.19	81.3	1022.27	10.16	82.2
06/07/2011 14:50:30.000'	-0.81	27.19	81.3	1022.28	10.16	82.2
06/07/2011 15:50:30.000'	-0.82	27.19	81.4	1022.27	10.19	82.4
06/07/2011 16:50:30.000'	-0.81	27.19	81.4	1022.27	10.17	82.2
06/07/2011 17:50:30.000'	-0.81	27.20	81.5	1022.28	10.14	82.1
06/07/2011 18:50:30.000'	-0.81	27.19	81.6	1022.28	10.17	82.2
06/07/2011 19:50:30.000'	-0.81	27.20	81.6	1022.28	10.17	82.3
06/07/2011 20:50:30.000'	-0.81	27.20	81.6	1022.28	10.14	82.1
06/07/2011 21:50:30.000'	-0.80	27.20	81.6	1022.28	10.13	82.0
06/07/2011 22:50:30.000'	-0.80	27.20	81.6	1022.28	10.12	81.8
06/07/2011 23:50:30.000'	-0.80	27.20	81.6	1022.28	10.12	81.8
07/07/2011 00:50:30.000'	-0.80	27.19	81.5	1022.28	10.15	82.1
07/07/2011 01:50:30.000'	-0.81	27.20	81.4	1022.28	10.17	82.3
07/07/2011 02:50:30.000'	-0.81	27.20	81.4	1022.28	10.20	82.5
07/07/2011 03:50:30.000'	-0.81	27.20	81.3	1022.28	10.20	82.5
07/07/2011 04:50:30.000'	-0.81	27.20	81.3	1022.28	10.19	82.4
07/07/2011 05:50:30.000'	-0.81	27.20	81.3	1022.28	10.15	82.1
07/07/2011 06:50:30.000'	-0.81	27.20	81.3	1022.28	10.16	82.2
07/07/2011 07:50:30.000'	-0.81	27.20	81.4	1022.28	10.17	82.2
07/07/2011 08:50:30.000'	-0.81	27.20	81.4	1022.28	10.20	82.5
07/07/2011 09:50:30.000'	-0.81	27.20	81.4	1022.28	10.19	82.4
07/07/2011 10:50:30.000'	-0.81	27.20	81.4	1022.28	10.16	82.2
07/07/2011 11:50:30.000'	-0.81	27.20	81.4	1022.28	10.18	82.3
07/07/2011 12:50:30.000'	-0.82	27.20	81.3	1022.28	10.16	82.2
07/07/2011 13:50:30.000'	-0.82	27.20	81.3	1022.28	10.19	82.4
07/07/2011 14:50:30.000'	-0.82	27.20	81.3	1022.28	10.19	82.4
07/07/2011 15:50:30.000'	-0.82	27.20	81.3	1022.28	10.18	82.3
07/07/2011 16:50:30.000'	-0.82	27.20	81.3	1022.28	10.19	82.4
07/07/2011 17:50:30.000'	-0.82	27.20	81.4	1022.28	10.20	82.5
07/07/2011 18:50:30.000'	-0.82	27.20	81.5	1022.28	10.17	82.3
07/07/2011 19:50:30.000'	-0.82	27.20	81.5	1022.28	10.17	82.3
07/07/2011 20:50:30.000'	-0.82	27.20	81.6	1022.28	10.17	82.3
07/07/2011 21:50:30.000'	-0.82	27.20	81.6	1022.28	10.19	82.4
07/07/2011 22:50:30.000'	-0.82	27.20	81.6	1022.28	10.19	82.4
07/07/2011 23:50:30.000'	-0.82	27.20	81.6	1022.28	10.19	82.4
08/07/2011 00:50:30.000'	-0.82	27.20	81.5	1022.28	10.18	82.3
08/07/2011 01:50:30.000'	-0.82	27.20	81.4	1022.28	10.21	82.6
08/07/2011 02:50:30.000'	-0.82	27.20	81.3	1022.28	10.20	82.5
08/07/2011 03:50:30.000'	-0.82	27.20	81.3	1022.28	10.17	82.3
08/07/2011 04:50:30.000'	-0.82	27.20	81.2	1022.28	10.20	82.5
08/07/2011 05:50:30.000'	-0.82	27.20	81.2	1022.28	10.18	82.4
08/07/2011 06:50:30.000'	-0.82	27.20	81.2	1022.28	10.21	82.5
08/07/2011 07:50:30.000'	-0.82	27.20	81.3	1022.28	10.22	82.6
08/07/2011 08:50:30.000'	-0.82	27.20	81.3	1022.28	10.16	82.2

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
08/07/2011 09:50:30.000'	-0.82	27.19	81.3	1022.28	10.19	82.4
08/07/2011 10:50:30.000'	-0.82	27.20	81.4	1022.28	10.17	82.3
08/07/2011 11:50:30.000'	-0.82	27.19	81.4	1022.28	10.20	82.4
08/07/2011 12:50:30.000'	-0.82	27.20	81.4	1022.28	10.17	82.2
08/07/2011 13:50:30.000'	-0.82	27.20	81.4	1022.28	10.20	82.5
08/07/2011 14:50:30.000'	-0.82	27.20	81.4	1022.28	10.18	82.3
08/07/2011 15:50:30.000'	-0.82	27.20	81.4	1022.28	10.18	82.3
08/07/2011 16:50:30.000'	-0.82	27.20	81.4	1022.28	10.15	82.0
08/07/2011 17:50:30.000'	-0.82	27.19	81.4	1022.28	10.17	82.2
08/07/2011 18:50:30.000'	-0.82	27.20	81.4	1022.28	10.20	82.5
08/07/2011 19:50:30.000'	-0.82	27.20	81.5	1022.28	10.17	82.2
08/07/2011 20:50:30.000'	-0.82	27.20	81.6	1022.28	10.20	82.5
08/07/2011 21:50:30.000'	-0.82	27.20	81.6	1022.28	10.20	82.5
08/07/2011 22:50:30.000'	-0.82	27.19	81.6	1022.28	10.22	82.7
08/07/2011 23:50:30.000'	-0.82	27.20	81.6	1022.28	10.20	82.5
09/07/2011 00:50:30.000'	-0.82	27.20	81.6	1022.28	10.17	82.3
09/07/2011 01:50:30.000'	-0.82	27.19	81.5	1022.28	10.17	82.3
09/07/2011 02:50:30.000'	-0.81	27.19	81.4	1022.27	10.15	82.1
09/07/2011 03:50:30.000'	-0.81	27.19	81.3	1022.27	10.14	82.0
09/07/2011 04:50:30.000'	-0.81	27.19	81.3	1022.27	10.15	82.1
09/07/2011 05:50:30.000'	-0.81	27.20	81.2	1022.28	10.19	82.4
09/07/2011 06:50:30.000'	-0.82	27.20	81.2	1022.28	10.20	82.4
09/07/2011 07:50:30.000'	-0.82	27.20	81.2	1022.28	10.19	82.4
09/07/2011 08:50:30.000'	-0.82	27.20	81.3	1022.28	10.18	82.3
09/07/2011 09:50:30.000'	-0.82	27.20	81.3	1022.28	10.17	82.3
09/07/2011 10:50:30.000'	-0.82	27.19	81.4	1022.28	10.15	82.1
09/07/2011 11:50:30.000'	-0.82	27.20	81.4	1022.28	10.13	81.9
09/07/2011 12:50:30.000'	-0.82	27.20	81.4	1022.28	10.15	82.1
09/07/2011 13:50:30.000'	-0.82	27.20	81.4	1022.28	10.18	82.3
09/07/2011 14:50:30.000'	-0.82	27.20	81.4	1022.28	10.19	82.4
09/07/2011 15:50:30.000'	-0.82	27.20	81.4	1022.28	10.19	82.4
09/07/2011 16:50:30.000'	-0.82	27.20	81.4	1022.28	10.16	82.2
09/07/2011 17:50:30.000'	-0.82	27.20	81.4	1022.28	10.18	82.3
09/07/2011 18:50:30.000'	-0.82	27.20	81.4	1022.28	10.17	82.2
09/07/2011 19:50:30.000'	-0.82	27.20	81.5	1022.28	10.13	81.9
09/07/2011 20:50:30.000'	-0.81	27.20	81.5	1022.28	10.13	82.0
09/07/2011 21:50:30.000'	-0.81	27.20	81.5	1022.28	10.13	82.0
09/07/2011 22:50:30.000'	-0.81	27.20	81.6	1022.28	10.17	82.3
09/07/2011 23:50:30.000'	-0.81	27.20	81.6	1022.28	10.18	82.3
10/07/2011 00:50:30.000'	-0.81	27.20	81.6	1022.28	10.17	82.3
10/07/2011 01:50:30.000'	-0.81	27.20	81.5	1022.28	10.13	82.0
10/07/2011 02:50:30.000'	-0.81	27.20	81.5	1022.28	10.16	82.2
10/07/2011 03:50:30.000'	-0.81	27.20	81.4	1022.28	10.14	82.0
10/07/2011 04:50:30.000'	-0.82	27.20	81.3	1022.28	10.13	82.0
10/07/2011 05:50:30.000'	-0.81	27.20	81.2	1022.28	10.15	82.1

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
10/07/2011 06:50:30.000'	-0.81	27.20	81.2	1022.28	10.17	82.2
10/07/2011 07:50:30.000'	-0.82	27.20	81.2	1022.28	10.21	82.5
10/07/2011 08:50:30.000'	-0.82	27.20	81.2	1022.28	10.20	82.5
10/07/2011 09:50:30.000'	-0.82	27.20	81.3	1022.28	10.18	82.4
10/07/2011 10:50:30.000'	-0.82	27.20	81.3	1022.28	10.18	82.3
10/07/2011 11:50:30.000'	-0.82	27.20	81.4	1022.28	10.19	82.4
10/07/2011 12:50:30.000'	-0.82	27.20	81.4	1022.28	10.16	82.2
10/07/2011 13:50:30.000'	-0.82	27.20	81.4	1022.28	10.16	82.2
10/07/2011 14:50:30.000'	-0.82	27.20	81.4	1022.28	10.16	82.2
10/07/2011 15:50:30.000'	-0.82	27.19	81.4	1022.28	10.17	82.2
10/07/2011 16:50:30.000'	-0.82	27.20	81.4	1022.28	10.19	82.4
10/07/2011 17:50:30.000'	-0.82	27.20	81.4	1022.28	10.17	82.2
10/07/2011 18:50:30.000'	-0.82	27.20	81.4	1022.28	10.17	82.3
10/07/2011 19:50:30.000'	-0.82	27.20	81.4	1022.28	10.15	82.1
10/07/2011 20:50:30.000'	-0.82	27.20	81.4	1022.28	10.17	82.3
10/07/2011 21:50:30.000'	-0.83	27.20	81.4	1022.28	10.17	82.3
10/07/2011 22:50:30.000'	-0.83	27.20	81.5	1022.28	10.18	82.3
10/07/2011 23:50:30.000'	-0.84	27.20	81.5	1022.28	10.18	82.3
11/07/2011 00:50:30.000'	-0.84	27.20	81.5	1022.28	10.23	82.7
11/07/2011 01:50:30.000'	-0.84	27.20	81.5	1022.28	10.24	82.7
11/07/2011 02:50:30.000'	-0.84	27.20	81.4	1022.28	10.24	82.8
11/07/2011 03:50:30.000'	-0.84	27.20	81.3	1022.28	10.21	82.5
11/07/2011 04:50:30.000'	-0.84	27.20	81.3	1022.28	10.21	82.5
11/07/2011 05:50:30.000'	-0.84	27.20	81.2	1022.28	10.19	82.4
11/07/2011 06:50:30.000'	-0.84	27.20	81.2	1022.28	10.18	82.3
11/07/2011 07:50:30.000'	-0.84	27.20	81.2	1022.28	10.14	82.0
11/07/2011 08:50:30.000'	-0.84	27.20	81.2	1022.28	10.15	82.1
11/07/2011 09:50:30.000'	-0.83	27.20	81.2	1022.28	10.16	82.1
11/07/2011 10:50:30.000'	-0.83	27.20	81.3	1022.28	10.15	82.0
11/07/2011 11:50:30.000'	-0.83	27.20	81.3	1022.28	10.18	82.3
11/07/2011 12:50:30.000'	-0.83	27.20	81.4	1022.28	10.16	82.2
11/07/2011 13:50:30.000'	-0.83	27.20	81.5	1022.28	10.17	82.2
11/07/2011 14:50:30.000'	-0.83	27.20	81.5	1022.28	10.16	82.1
11/07/2011 15:50:30.000'	-0.83	27.20	81.5	1022.28	10.19	82.4
11/07/2011 16:50:30.000'	-0.84	27.20	81.5	1022.28	10.18	82.3
11/07/2011 17:50:30.000'	-0.84	27.20	81.5	1022.28	10.18	82.3
11/07/2011 18:50:30.000'	-0.83	27.20	81.5	1022.28	10.16	82.1
11/07/2011 19:50:30.000'	-0.84	27.20	81.5	1022.28	10.21	82.5
11/07/2011 20:50:30.000'	-0.85	27.20	81.5	1022.28	10.24	82.7
11/07/2011 21:50:30.000'	-0.85	27.20	81.5	1022.28	10.20	82.4
11/07/2011 22:50:30.000'	-0.85	27.20	81.5	1022.28	10.22	82.6
11/07/2011 23:50:30.000'	-0.87	27.20	81.5	1022.28	10.29	83.1
12/07/2011 00:50:30.000'	-0.87	27.20	81.5	1022.28	10.32	83.3
12/07/2011 01:50:30.000'	-0.87	27.20	81.5	1022.28	10.34	83.5
12/07/2011 02:50:30.000'	-0.86	27.20	81.4	1022.28	10.31	83.3

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
12/07/2011 03:50:30.000'	-0.85	27.20	81.4	1022.28	10.20	82.4
12/07/2011 04:50:30.000'	-0.84	27.20	81.4	1022.28	10.19	82.3
12/07/2011 05:50:30.000'	-0.83	27.20	81.3	1022.28	10.15	82.1
12/07/2011 06:50:30.000'	-0.83	27.20	81.3	1022.28	10.16	82.1
12/07/2011 07:50:30.000'	-0.83	27.20	81.2	1022.28	10.14	82.0
12/07/2011 08:50:30.000'	-0.83	27.20	81.2	1022.28	10.14	82.0
12/07/2011 09:50:30.000'	-0.83	27.20	81.2	1022.28	10.14	82.0
12/07/2011 10:50:30.000'	-0.84	27.20	81.2	1022.28	10.15	82.0
12/07/2011 11:50:30.000'	-0.84	27.20	81.3	1022.28	10.20	82.4
12/07/2011 12:50:30.000'	-0.84	27.20	81.4	1022.28	10.19	82.4
12/07/2011 13:50:30.000'	-0.84	27.20	81.4	1022.28	10.20	82.4
12/07/2011 14:50:30.000'	-0.84	27.20	81.5	1022.28	10.19	82.4
12/07/2011 15:50:30.000'	-0.84	27.20	81.5	1022.28	10.15	82.1
12/07/2011 16:50:30.000'	-0.84	27.20	81.5	1022.28	10.12	81.8
12/07/2011 17:50:30.000'	-0.84	27.20	81.5	1022.28	10.09	81.6
12/07/2011 18:50:30.000'	-0.84	27.20	81.5	1022.28	10.11	81.7
12/07/2011 19:50:30.000'	-0.84	27.20	81.5	1022.28	10.12	81.8
12/07/2011 20:50:30.000'	-0.84	27.20	81.4	1022.28	10.15	82.1
12/07/2011 21:50:30.000'	-0.84	27.20	81.4	1022.28	10.15	82.1
12/07/2011 22:50:30.000'	-0.84	27.20	81.4	1022.28	10.19	82.4
12/07/2011 23:50:30.000'	-0.84	27.20	81.4	1022.28	10.17	82.2
13/07/2011 00:50:30.000'	-0.84	27.20	81.4	1022.28	10.17	82.2
13/07/2011 01:50:30.000'	-0.84	27.20	81.4	1022.28	10.17	82.2
13/07/2011 02:50:30.000'	-0.84	27.20	81.4	1022.28	10.16	82.1
13/07/2011 03:50:30.000'	-0.84	27.20	81.4	1022.28	10.17	82.2
13/07/2011 04:50:30.000'	-0.84	27.20	81.3	1022.28	10.17	82.2
13/07/2011 05:50:30.000'	-0.84	27.20	81.3	1022.28	10.19	82.4
13/07/2011 06:50:30.000'	-0.84	27.20	81.2	1022.28	10.17	82.2
13/07/2011 07:50:30.000'	-0.84	27.20	81.2	1022.28	10.16	82.1
13/07/2011 08:50:30.000'	-0.84	27.20	81.2	1022.28	10.14	81.9
13/07/2011 09:50:30.000'	-0.84	27.20	81.2	1022.28	10.12	81.8
13/07/2011 10:50:30.000'	-0.84	27.20	81.2	1022.28	10.11	81.7
13/07/2011 11:50:30.000'	-0.84	27.20	81.2	1022.28	10.12	81.8
13/07/2011 12:50:30.000'	-0.84	27.20	81.3	1022.28	10.13	81.9
13/07/2011 13:50:30.000'	-0.84	27.20	81.4	1022.28	10.13	81.8
13/07/2011 14:50:30.000'	-0.84	27.20	81.5	1022.28	10.11	81.7
13/07/2011 15:50:30.000'	-0.84	27.20	81.5	1022.28	10.13	81.8
13/07/2011 16:50:30.000'	-0.84	27.20	81.5	1022.28	10.13	81.8
13/07/2011 17:50:30.000'	-0.85	27.20	81.5	1022.28	10.21	82.5
13/07/2011 18:50:30.000'	-0.85	27.20	81.5	1022.28	10.23	82.7
13/07/2011 19:50:30.000'	-0.85	27.20	81.5	1022.28	10.22	82.6
13/07/2011 20:50:30.000'	-0.85	27.20	81.5	1022.28	10.23	82.7
13/07/2011 21:50:30.000'	-0.86	27.20	81.4	1022.28	10.29	83.1
13/07/2011 22:50:30.000'	-0.88	27.20	81.4	1022.28	10.33	83.4
13/07/2011 23:50:30.000'	-0.89	27.20	81.4	1022.28	10.39	83.9

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (° C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
14/07/2011 00:50:30.000'	-0.89	27.20	81.3	1022.28	10.37	83.7
14/07/2011 01:50:30.000'	-0.89	27.21	81.3	1022.29	10.37	83.7
14/07/2011 02:50:30.000'	-0.88	27.21	81.3	1022.29	10.35	83.5
14/07/2011 03:50:30.000'	-0.88	27.21	81.3	1022.29	10.37	83.7
14/07/2011 04:50:30.000'	-0.88	27.21	81.3	1022.29	10.38	83.8
14/07/2011 05:50:30.000'	-0.88	27.21	81.3	1022.29	10.35	83.6
14/07/2011 06:50:30.000'	-0.88	27.21	81.3	1022.29	10.35	83.6
14/07/2011 07:50:30.000'	-0.88	27.21	81.2	1022.29	10.34	83.5
14/07/2011 08:50:30.000'	-0.87	27.20	81.2	1022.28	10.31	83.3
14/07/2011 09:50:30.000'	-0.87	27.21	81.2	1022.29	10.30	83.2
14/07/2011 10:50:30.000'	-0.87	27.20	81.2	1022.28	10.32	83.4
14/07/2011 11:50:30.000'	-0.87	27.21	81.2	1022.29	10.31	83.2
14/07/2011 12:50:30.000'	-0.87	27.21	81.3	1022.28	10.29	83.1
14/07/2011 13:50:30.000'	-0.88	27.21	81.4	1022.29	10.25	82.8
14/07/2011 14:50:30.000'	-0.87	27.21	81.5	1022.29	10.27	82.9
14/07/2011 15:50:30.000'	-0.87	27.21	81.5	1022.29	10.28	83.0
14/07/2011 16:50:30.000'	-0.88	27.21	81.6	1022.29	10.26	82.9
14/07/2011 17:50:30.000'	-0.88	27.21	81.6	1022.29	10.27	82.9
14/07/2011 18:50:30.000'	-0.89	27.21	81.6	1022.29	10.30	83.2
14/07/2011 19:50:30.000'	-0.90	27.20	81.6	1022.29	10.38	83.8
14/07/2011 20:50:30.000'	-0.90	27.20	81.5	1022.28	10.40	83.9
14/07/2011 21:50:30.000'	-0.90	27.21	81.5	1022.29	10.40	83.9
14/07/2011 22:50:30.000'	-0.89	27.21	81.4	1022.29	10.40	83.9
14/07/2011 23:50:30.000'	-0.90	27.21	81.4	1022.29	10.42	84.1
15/07/2011 00:50:30.000'	-0.89	27.20	81.4	1022.29	10.35	83.5
15/07/2011 01:50:30.000'	-0.89	27.21	81.3	1022.29	10.32	83.3
15/07/2011 02:50:30.000'	-0.89	27.21	81.3	1022.29	10.32	83.3
15/07/2011 03:50:30.000'	-0.89	27.21	81.3	1022.29	10.32	83.3
15/07/2011 04:50:30.000'	-0.89	27.21	81.3	1022.29	10.32	83.3
15/07/2011 05:50:30.000'	-0.90	27.20	81.3	1022.29	10.32	83.3
15/07/2011 06:50:30.000'	-0.90	27.21	81.3	1022.29	10.28	83.0
15/07/2011 07:50:30.000'	-0.89	27.21	81.3	1022.29	10.28	83.0
15/07/2011 08:50:30.000'	-0.89	27.21	81.2	1022.28	10.28	83.0
15/07/2011 09:50:30.000'	-0.89	27.21	81.2	1022.29	10.30	83.1
15/07/2011 10:50:30.000'	-0.89	27.21	81.2	1022.29	10.31	83.2
15/07/2011 11:50:30.000'	-0.88	27.21	81.2	1022.29	10.29	83.1
15/07/2011 12:50:30.000'	-0.88	27.21	81.2	1022.29	10.28	83.0
15/07/2011 13:50:30.000'	-0.88	27.21	81.3	1022.29	10.28	83.0
15/07/2011 14:50:30.000'	-0.89	27.21	81.4	1022.29	10.31	83.3
15/07/2011 15:50:30.000'	-0.89	27.21	81.5	1022.29	10.36	83.6
15/07/2011 16:50:30.000'	-0.89	27.21	81.6	1022.29	10.33	83.4
15/07/2011 17:50:30.000'	-0.90	27.20	81.6	1022.29	10.33	83.4
15/07/2011 18:50:30.000'	-0.90	27.21	81.6	1022.29	10.29	83.0
15/07/2011 19:50:30.000'	-0.90	27.21	81.6	1022.29	10.30	83.1
15/07/2011 20:50:30.000'	-0.90	27.21	81.6	1022.29	10.28	82.9

Table A3-3.3. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 82 m Depth in Roberts Bay, Doris North Project, May-July 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
15/07/2011 21:50:30.000'	-0.90	27.21	81.5	1022.29	10.36	83.6
15/07/2011 22:50:30.000'	-0.90	27.21	81.5	1022.29	10.36	83.6
15/07/2011 23:50:30.000'	-0.90	27.21	81.4	1022.29	10.37	83.7
16/07/2011 00:50:30.000'	-0.90	27.21	81.4	1022.29	10.35	83.5
16/07/2011 01:50:30.000'	-0.90	27.21	81.3	1022.29	10.32	83.3
16/07/2011 02:50:30.000'	-0.89	27.20	81.3	1022.28	10.34	83.5
16/07/2011 03:50:30.000'	-0.89	27.21	81.3	1022.29	10.31	83.2
16/07/2011 04:50:30.000'	-0.89	27.20	81.4	1022.28	10.26	82.8
16/07/2011 05:50:30.000'	-0.89	27.20	81.4	1022.29	10.24	82.6
16/07/2011 06:50:30.000'	-0.89	27.21	81.4	1022.29	10.24	82.6
16/07/2011 07:50:30.000'	-0.89	27.20	81.3	1022.29	10.25	82.7
16/07/2011 08:50:30.000'	-0.89	27.20	81.3	1022.28	10.31	83.3
16/07/2011 09:50:30.000'	-0.89	27.21	81.2	1022.29	10.31	83.2
16/07/2011 10:50:30.000'	-0.89	27.21	81.2	1022.29	10.31	83.2
16/07/2011 11:50:30.000'	-0.89	27.21	81.2	1022.29	10.29	83.1
16/07/2011 12:50:30.000'	-0.88	27.21	81.2	1022.29	10.29	83.0
16/07/2011 13:50:30.000'	-0.89	27.21	81.3	1022.29	10.28	83.0
16/07/2011 14:50:30.000'	-0.88	27.21	81.4	1022.29	10.29	83.1
16/07/2011 15:50:30.000'	-0.89	27.21	81.5	1022.29	10.35	83.5
16/07/2011 16:50:30.000'	-0.89	27.20	81.6	1022.28	10.33	83.4
16/07/2011 17:50:30.000'	-0.89	27.20	81.6	1022.29	10.34	83.4
16/07/2011 18:50:30.000'	-0.90	27.21	81.6	1022.29	10.35	83.5
16/07/2011 19:50:30.000'	-0.90	27.21	81.6	1022.29	10.37	83.7
16/07/2011 20:50:30.000'	-0.90	27.21	81.6	1022.29	10.37	83.7
16/07/2011 21:50:30.000'	-0.90	27.21	81.6	1022.29	10.37	83.7
16/07/2011 22:50:30.000'	-0.90	27.21	81.5	1022.29	10.36	83.6
16/07/2011 23:50:30.000'	-0.90	27.21	81.4	1022.29	10.36	83.6
17/07/2011 00:50:30.000'	-0.90	27.21	81.4	1022.29	10.36	83.6
17/07/2011 01:50:30.000'	-0.90	27.21	81.3	1022.29	10.35	83.5
17/07/2011 02:50:30.000'	-0.90	27.21	81.3	1022.29	10.35	83.5
17/07/2011 03:50:30.000'	-0.90	27.21	81.3	1022.29	10.33	83.4
17/07/2011 04:50:30.000'	-0.90	27.21	81.3	1022.29	10.33	83.4
17/07/2011 05:50:30.000'	-0.90	27.21	81.3	1022.29	10.31	83.2
17/07/2011 06:50:30.000'	-0.90	27.21	81.3	1022.29	10.33	83.4
17/07/2011 07:50:30.000'	-0.90	27.21	81.3	1022.29	10.34	83.5
17/07/2011 08:50:30.000'	-0.90	27.21	81.3	1022.29	10.35	83.5
17/07/2011 09:50:30.000'	-0.90	27.21	81.3	1022.29	10.38	83.7
17/07/2011 10:50:30.000'	-0.90	27.21	81.2	1022.29	10.37	83.7
17/07/2011 11:50:30.000'	-0.90	27.21	81.2	1022.29	10.38	83.8
17/07/2011 12:50:30.000'	-0.90	27.21	81.2	1022.29	10.35	83.5

3-3.1.2 July 17 - October 4 Deployment

The CTD during this deployment was attached to Amsteel rope 0.5 m above the acoustic release, at 77.5 m depth. A summary of points flagged or interpolated during processing is given in Table A3-3.4. Statistics computed for temperature, salinity, density and dissolved oxygen are shown in Table A3-3.5. A time-series plot of temperature, salinity, density and dissolved oxygen is presented in Figure A3-3.2. Flagged values are plotted as NaN values and appear as gaps in the data record. Complete reported data is found in Table A3-3.6.

Table A3-3.4. Summary of Points Edited for July 17 - October 4 at the 85 m Site

	Interpolated	Flagged	% Edit	Total Points
Temperature	0	0	0.00%	1,892
Pressure	0	0	0.00%	1,892
Depth	0	0	0.00%	1,892
Salinity	4	0	0.21%	1,892
Density	4	0	0.21%	1,892
Dissolved Oxygen	108	0	5.71%	1,892

Table A3-3.5. Temperature, Salinity, Density and Dissolved Oxygen Statistics for July 17 - October 4 at 85 m Site

Channel	17-Jul-2011 21:38:09 to 04-Oct-2011 16:37:50										
	Min	1%	5%	25%	50%	Mean	75%	95%	99%	Std	Max
Temperature (°C)	-1.044	-1.039	-1.036	-0.994	-0.812	-0.822	-0.674	-0.568	-0.525	0.166	-0.429
Salinity	27.145	27.188	27.196	27.232	27.37	27.332	27.408	27.439	27.453	0.088	27.465
Density (kg/m ³)	1,022.16	1,022.2	1,022.21	1,022.24	1,022.34	1,022.314	1,022.37	1,022.4	1,022.41	0.068	1,022.41
Dissolved Oxygen (mg/L)	8.59	8.61	8.69	8.94	9.01	8.988	9.05	9.15	9.24	0.121	9.26

Figure A3-3.2. Time-series Plot of CTD Data at 77.5 m Depth for July 17 - October 4

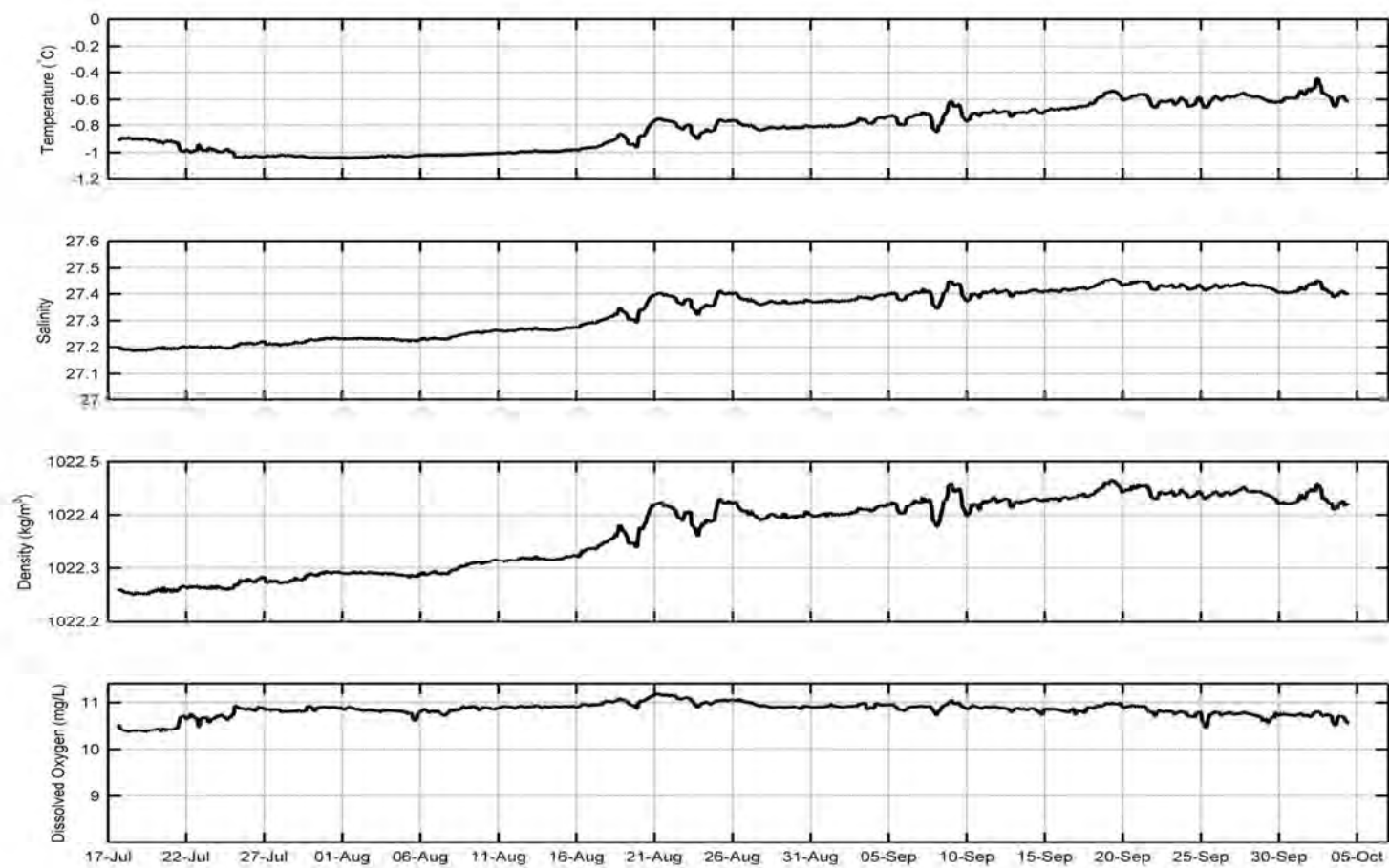


Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
17/07/2011 16:38:10.000'	-0.91	27.19	77.7	1022.26	10.54	87.0
17/07/2011 17:38:10.000'	-0.90	27.20	77.8	1022.26	10.45	86.2
17/07/2011 18:38:10.000'	-0.90	27.19	77.8	1022.26	10.45	86.2
17/07/2011 19:38:10.000'	-0.90	27.19	77.8	1022.26	10.44	86.1
17/07/2011 20:38:10.000'	-0.90	27.19	77.8	1022.26	10.44	86.1
17/07/2011 21:38:10.000'	-0.90	27.19	77.7	1022.26	10.42	86.0
17/07/2011 22:38:10.000'	-0.90	27.19	77.6	1022.26	10.41	85.9
17/07/2011 23:38:10.000'	-0.89	27.19	77.5	1022.26	10.40	85.8
18/07/2011 00:38:10.000'	-0.89	27.19	77.5	1022.25	10.41	85.9
18/07/2011 01:38:10.000'	-0.90	27.19	77.4	1022.26	10.40	85.8
18/07/2011 02:38:10.000'	-0.90	27.19	77.4	1022.25	10.39	85.7
18/07/2011 03:38:10.000'	-0.90	27.19	77.4	1022.25	10.39	85.7
18/07/2011 04:38:10.000'	-0.90	27.19	77.4	1022.25	10.38	85.6
18/07/2011 05:38:10.000'	-0.89	27.19	77.4	1022.25	10.38	85.7
18/07/2011 06:38:10.000'	-0.89	27.19	77.4	1022.25	10.38	85.7
18/07/2011 07:38:10.000'	-0.89	27.19	77.4	1022.25	10.37	85.6
18/07/2011 08:38:10.000'	-0.89	27.19	77.4	1022.25	10.38	85.6
18/07/2011 09:38:10.000'	-0.89	27.19	77.3	1022.25	10.37	85.6
18/07/2011 10:38:10.000'	-0.89	27.19	77.3	1022.25	10.37	85.6
18/07/2011 11:38:10.000'	-0.90	27.19	77.3	1022.25	10.40	85.8
18/07/2011 12:38:10.000'	-0.90	27.19	77.3	1022.25	10.40	85.8
18/07/2011 13:38:10.000'	-0.90	27.19	77.3	1022.25	10.41	85.9
18/07/2011 14:38:10.000'	-0.90	27.19	77.4	1022.25	10.40	85.8
18/07/2011 15:38:10.000'	-0.90	27.19	77.5	1022.25	10.40	85.8
18/07/2011 16:38:10.000'	-0.90	27.19	77.5	1022.25	10.40	85.8
18/07/2011 17:38:10.000'	-0.90	27.19	77.6	1022.25	10.39	85.7
18/07/2011 18:38:10.000'	-0.90	27.19	77.6	1022.25	10.39	85.7
18/07/2011 19:38:10.000'	-0.90	27.19	77.6	1022.26	10.39	85.8
18/07/2011 20:38:10.000'	-0.90	27.19	77.6	1022.25	10.39	85.7
18/07/2011 21:38:10.000'	-0.90	27.19	77.6	1022.25	10.40	85.8
18/07/2011 22:38:10.000'	-0.90	27.19	77.5	1022.25	10.40	85.8
18/07/2011 23:38:10.000'	-0.90	27.19	77.5	1022.25	10.39	85.7
19/07/2011 00:38:10.000'	-0.90	27.19	77.4	1022.25	10.40	85.8
19/07/2011 01:38:10.000'	-0.90	27.19	77.4	1022.25	10.40	85.8
19/07/2011 02:38:10.000'	-0.90	27.19	77.3	1022.25	10.39	85.7
19/07/2011 03:38:10.000'	-0.90	27.19	77.3	1022.25	10.39	85.7
19/07/2011 04:38:10.000'	-0.90	27.19	77.3	1022.25	10.39	85.7
19/07/2011 05:38:10.000'	-0.90	27.19	77.3	1022.25	10.40	85.8
19/07/2011 06:38:10.000'	-0.90	27.19	77.4	1022.25	10.39	85.7
19/07/2011 07:38:10.000'	-0.90	27.19	77.4	1022.25	10.38	85.7
19/07/2011 08:38:10.000'	-0.90	27.19	77.4	1022.25	10.38	85.6
19/07/2011 09:38:10.000'	-0.90	27.19	77.4	1022.25	10.37	85.6
19/07/2011 10:38:10.000'	-0.90	27.19	77.3	1022.25	10.38	85.6
19/07/2011 11:38:10.000'	-0.90	27.19	77.3	1022.25	10.38	85.6
19/07/2011 12:38:10.000'	-0.90	27.19	77.3	1022.25	10.37	85.6
19/07/2011 13:38:10.000'	-0.90	27.19	77.4	1022.25	10.39	85.7

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
19/07/2011 14:38:10.000'	-0.90	27.19	77.4	1022.25	10.40	85.8
19/07/2011 15:38:10.000'	-0.91	27.19	77.5	1022.25	10.41	85.8
19/07/2011 16:38:10.000'	-0.91	27.19	77.5	1022.26	10.42	85.9
19/07/2011 17:38:10.000'	-0.91	27.19	77.6	1022.25	10.41	85.8
19/07/2011 18:38:10.000'	-0.90	27.19	77.7	1022.25	10.40	85.8
19/07/2011 19:38:10.000'	-0.90	27.19	77.7	1022.25	10.41	85.9
19/07/2011 20:38:10.000'	-0.91	27.19	77.7	1022.26	10.40	85.8
19/07/2011 21:38:10.000'	-0.91	27.19	77.7	1022.26	10.40	85.8
19/07/2011 22:38:10.000'	-0.91	27.19	77.7	1022.26	10.42	85.9
19/07/2011 23:38:10.000'	-0.91	27.19	77.6	1022.26	10.42	85.9
20/07/2011 00:38:10.000'	-0.91	27.19	77.5	1022.26	10.41	85.9
20/07/2011 01:38:10.000'	-0.91	27.19	77.5	1022.26	10.41	85.9
20/07/2011 02:38:10.000'	-0.91	27.19	77.4	1022.26	10.41	85.9
20/07/2011 03:38:10.000'	-0.92	27.20	77.4	1022.26	10.44	86.1
20/07/2011 04:38:10.000'	-0.92	27.20	77.4	1022.26	10.45	86.2
20/07/2011 05:38:10.000'	-0.92	27.20	77.4	1022.26	10.44	86.1
20/07/2011 06:38:10.000'	-0.92	27.20	77.4	1022.26	10.44	86.1
20/07/2011 07:38:10.000'	-0.92	27.20	77.4	1022.26	10.41	85.9
20/07/2011 08:38:10.000'	-0.92	27.20	77.4	1022.26	10.38	85.6
20/07/2011 09:38:10.000'	-0.92	27.19	77.4	1022.25	10.37	85.5
20/07/2011 10:38:10.000'	-0.92	27.19	77.4	1022.26	10.38	85.6
20/07/2011 11:38:10.000'	-0.93	27.20	77.4	1022.26	10.44	86.1
20/07/2011 12:38:10.000'	-0.93	27.20	77.4	1022.26	10.46	86.2
20/07/2011 13:38:10.000'	-0.93	27.20	77.4	1022.26	10.46	86.2
20/07/2011 14:38:10.000'	-0.93	27.20	77.4	1022.26	10.44	86.1
20/07/2011 15:38:10.000'	-0.92	27.19	77.5	1022.26	10.40	85.8
20/07/2011 16:38:10.000'	-0.92	27.19	77.6	1022.25	10.40	85.7
20/07/2011 17:38:10.000'	-0.92	27.19	77.6	1022.26	10.39	85.7
20/07/2011 18:38:10.000'	-0.92	27.19	77.7	1022.26	10.40	85.8
20/07/2011 19:38:10.000'	-0.92	27.19	77.7	1022.26	10.43	86.0
20/07/2011 20:38:10.000'	-0.92	27.19	77.7	1022.26	10.44	86.1
20/07/2011 21:38:10.000'	-0.92	27.19	77.7	1022.26	10.44	86.1
20/07/2011 22:38:10.000'	-0.92	27.20	77.7	1022.26	10.42	85.9
20/07/2011 23:38:10.000'	-0.92	27.19	77.6	1022.26	10.43	86.0
21/07/2011 00:38:10.000'	-0.91	27.19	77.6	1022.26	10.40	85.8
21/07/2011 01:38:10.000'	-0.91	27.19	77.5	1022.25	10.40	85.8
21/07/2011 02:38:10.000'	-0.91	27.19	77.5	1022.26	10.40	85.8
21/07/2011 03:38:10.000'	-0.93	27.20	77.4	1022.26	10.43	86.0
21/07/2011 04:38:10.000'	-0.93	27.20	77.4	1022.26	10.44	86.1
21/07/2011 05:38:10.000'	-0.93	27.20	77.4	1022.26	10.44	86.1
21/07/2011 06:38:10.000'	-0.93	27.20	77.4	1022.26	10.44	86.1
21/07/2011 07:38:10.000'	-0.92	27.19	77.4	1022.26	10.44	86.1
21/07/2011 08:38:10.000'	-0.92	27.19	77.5	1022.26	10.44	86.1
21/07/2011 09:38:10.000'	-0.92	27.19	77.5	1022.26	10.47	86.3
21/07/2011 10:38:10.000'	-0.92	27.19	77.5	1022.26	10.44	86.1
21/07/2011 11:38:10.000'	-0.94	27.19	77.5	1022.26	10.51	86.6

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
21/07/2011 12:38:10.000'	-0.95	27.19	77.5	1022.26	10.53	86.8
21/07/2011 13:38:10.000'	-0.96	27.20	77.5	1022.26	10.58	87.1
21/07/2011 14:38:10.000'	-0.99	27.20	77.5	1022.26	10.70	88.1
21/07/2011 15:38:10.000'	-0.99	27.20	77.5	1022.26	10.70	88.0
21/07/2011 16:38:10.000'	-0.99	27.20	77.6	1022.26	10.70	88.0
21/07/2011 17:38:10.000'	-0.99	27.20	77.6	1022.26	10.70	88.0
21/07/2011 18:38:10.000'	-0.99	27.20	77.7	1022.26	10.71	88.2
21/07/2011 19:38:10.000'	-0.99	27.20	77.7	1022.27	10.71	88.2
21/07/2011 20:38:10.000'	-0.99	27.20	77.7	1022.27	10.71	88.2
21/07/2011 21:38:10.000'	-0.99	27.20	77.7	1022.27	10.71	88.2
21/07/2011 22:38:10.000'	-0.99	27.20	77.7	1022.26	10.71	88.2
21/07/2011 23:38:10.000'	-0.98	27.20	77.6	1022.27	10.67	87.8
22/07/2011 00:38:10.000'	-0.98	27.20	77.6	1022.26	10.65	87.7
22/07/2011 01:38:10.000'	-0.98	27.20	77.5	1022.26	10.65	87.7
22/07/2011 02:38:10.000'	-0.98	27.20	77.5	1022.26	10.68	88.0
22/07/2011 03:38:10.000'	-0.98	27.20	77.4	1022.26	10.68	88.0
22/07/2011 04:38:10.000'	-0.99	27.20	77.4	1022.27	10.70	88.0
22/07/2011 05:38:10.000'	-1.00	27.20	77.4	1022.27	10.72	88.2
22/07/2011 06:38:10.000'	-1.00	27.20	77.4	1022.27	10.74	88.4
22/07/2011 07:38:10.000'	-1.00	27.20	77.5	1022.26	10.75	88.5
22/07/2011 08:38:10.000'	-1.00	27.20	77.5	1022.26	10.75	88.5
22/07/2011 09:38:10.000'	-0.99	27.20	77.5	1022.26	10.68	88.0
22/07/2011 10:38:10.000'	-0.99	27.20	77.5	1022.26	10.68	88.0
22/07/2011 11:38:10.000'	-0.99	27.20	77.5	1022.26	10.68	88.0
22/07/2011 12:38:10.000'	-0.98	27.20	77.5	1022.26	10.70	88.0
22/07/2011 13:38:10.000'	-0.99	27.20	77.5	1022.26	10.69	88.0
22/07/2011 14:38:10.000'	-0.98	27.20	77.5	1022.26	10.69	88.0
22/07/2011 15:38:10.000'	-0.99	27.20	77.5	1022.27	10.66	87.7
22/07/2011 16:38:10.000'	-0.98	27.20	77.6	1022.27	10.64	87.6
22/07/2011 17:38:10.000'	-0.97	27.20	77.6	1022.27	10.61	87.4
22/07/2011 18:38:10.000'	-0.94	27.20	77.6	1022.26	10.49	86.5
22/07/2011 19:38:10.000'	-0.94	27.20	77.7	1022.26	10.49	86.4
22/07/2011 20:38:10.000'	-0.94	27.20	77.7	1022.26	10.49	86.5
22/07/2011 21:38:10.000'	-0.96	27.20	77.7	1022.26	10.60	87.3
22/07/2011 22:38:10.000'	-0.98	27.20	77.7	1022.26	10.67	87.9
22/07/2011 23:38:10.000'	-0.98	27.20	77.7	1022.27	10.67	87.9
23/07/2011 00:38:10.000'	-0.98	27.20	77.6	1022.26	10.69	88.0
23/07/2011 01:38:10.000'	-0.98	27.20	77.6	1022.26	10.67	87.9
23/07/2011 02:38:10.000'	-0.98	27.20	77.5	1022.26	10.68	88.0
23/07/2011 03:38:10.000'	-0.98	27.20	77.5	1022.26	10.67	87.9
23/07/2011 04:38:10.000'	-0.98	27.20	77.4	1022.26	10.68	87.9
23/07/2011 05:38:10.000'	-0.98	27.20	77.4	1022.26	10.68	87.9
23/07/2011 06:38:10.000'	-0.99	27.20	77.4	1022.26	10.68	87.9
23/07/2011 07:38:10.000'	-0.99	27.20	77.4	1022.26	10.68	87.9
23/07/2011 08:38:10.000'	-0.99	27.20	77.4	1022.26	10.68	87.9
23/07/2011 09:38:10.000'	-0.99	27.20	77.5	1022.26	10.63	87.5

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
23/07/2011 10:38:10.000'	-0.96	27.20	77.5	1022.26	10.58	87.1
23/07/2011 11:38:10.000'	-0.97	27.20	77.5	1022.26	10.58	87.1
23/07/2011 12:38:10.000'	-0.97	27.20	77.5	1022.26	10.58	87.1
23/07/2011 13:38:10.000'	-0.97	27.20	77.5	1022.26	10.63	87.6
23/07/2011 14:38:10.000'	-0.98	27.20	77.5	1022.26	10.64	87.6
23/07/2011 15:38:10.000'	-0.98	27.20	77.5	1022.27	10.64	87.6
23/07/2011 16:38:10.000'	-0.98	27.20	77.6	1022.27	10.67	87.8
23/07/2011 17:38:10.000'	-0.98	27.20	77.6	1022.26	10.67	87.8
23/07/2011 18:38:10.000'	-0.98	27.20	77.6	1022.26	10.67	87.8
23/07/2011 19:38:10.000'	-0.98	27.20	77.6	1022.26	10.66	87.8
23/07/2011 20:38:10.000'	-0.98	27.20	77.6	1022.26	10.67	87.8
23/07/2011 21:38:10.000'	-0.98	27.20	77.6	1022.26	10.67	87.8
23/07/2011 22:38:10.000'	-0.99	27.20	77.6	1022.27	10.72	88.2
23/07/2011 23:38:10.000'	-0.99	27.20	77.6	1022.27	10.73	88.3
24/07/2011 00:38:10.000'	-0.99	27.20	77.5	1022.27	10.72	88.2
24/07/2011 01:38:10.000'	-0.99	27.20	77.5	1022.26	10.71	88.1
24/07/2011 02:38:10.000'	-0.99	27.20	77.4	1022.26	10.71	88.1
24/07/2011 03:38:10.000'	-0.99	27.20	77.4	1022.26	10.71	88.1
24/07/2011 04:38:10.000'	-0.99	27.20	77.4	1022.26	10.72	88.2
24/07/2011 05:38:10.000'	-1.00	27.20	77.4	1022.26	10.74	88.4
24/07/2011 06:38:10.000'	-1.00	27.20	77.4	1022.26	10.74	88.4
24/07/2011 07:38:10.000'	-1.00	27.20	77.4	1022.26	10.75	88.5
24/07/2011 08:38:10.000'	-0.99	27.20	77.4	1022.26	10.70	88.1
24/07/2011 09:38:10.000'	-0.99	27.20	77.5	1022.26	10.70	88.0
24/07/2011 10:38:10.000'	-0.99	27.20	77.5	1022.26	10.69	88.0
24/07/2011 11:38:10.000'	-0.99	27.20	77.5	1022.26	10.69	88.0
24/07/2011 12:38:10.000'	-0.98	27.20	77.5	1022.26	10.68	87.9
24/07/2011 13:38:10.000'	-0.98	27.20	77.5	1022.26	10.68	87.9
24/07/2011 14:38:10.000'	-0.98	27.20	77.6	1022.26	10.68	87.9
24/07/2011 15:38:10.000'	-0.97	27.19	77.6	1022.26	10.62	87.5
24/07/2011 16:38:10.000'	-0.99	27.20	77.6	1022.26	10.68	87.9
24/07/2011 17:38:10.000'	-0.99	27.20	77.6	1022.26	10.68	87.9
24/07/2011 18:38:10.000'	-0.99	27.20	77.6	1022.26	10.69	88.0
24/07/2011 19:38:10.000'	-0.99	27.20	77.6	1022.26	10.68	87.9
24/07/2011 20:38:10.000'	-0.99	27.20	77.6	1022.26	10.68	87.9
24/07/2011 21:38:10.000'	-0.99	27.20	77.6	1022.26	10.72	88.3
24/07/2011 22:38:10.000'	-1.00	27.20	77.6	1022.26	10.72	88.2
24/07/2011 23:38:10.000'	-1.00	27.20	77.6	1022.26	10.75	88.4
25/07/2011 00:38:10.000'	-1.00	27.20	77.5	1022.26	10.74	88.4
25/07/2011 01:38:10.000'	-1.00	27.20	77.5	1022.26	10.77	88.6
25/07/2011 02:38:10.000'	-1.03	27.20	77.5	1022.27	10.93	89.9
25/07/2011 03:38:10.000'	-1.03	27.21	77.4	1022.27	10.93	89.8
25/07/2011 04:38:10.000'	-1.04	27.20	77.4	1022.27	10.93	89.9
25/07/2011 05:38:10.000'	-1.04	27.21	77.4	1022.27	10.93	89.8
25/07/2011 06:38:10.000'	-1.03	27.20	77.4	1022.27	10.92	89.8
25/07/2011 07:38:10.000'	-1.03	27.21	77.4	1022.27	10.89	89.5

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
25/07/2011 08:38:10.000'	-1.03	27.21	77.4	1022.27	10.88	89.4
25/07/2011 09:38:10.000'	-1.03	27.21	77.5	1022.27	10.89	89.5
25/07/2011 10:38:10.000'	-1.03	27.21	77.5	1022.28	10.88	89.4
25/07/2011 11:38:10.000'	-1.03	27.22	77.5	1022.28	10.88	89.4
25/07/2011 12:38:10.000'	-1.03	27.22	77.6	1022.28	10.86	89.3
25/07/2011 13:38:10.000'	-1.04	27.21	77.6	1022.27	10.87	89.4
25/07/2011 14:38:10.000'	-1.04	27.21	77.6	1022.28	10.88	89.4
25/07/2011 15:38:10.000'	-1.04	27.21	77.6	1022.28	10.88	89.4
25/07/2011 16:38:10.000'	-1.04	27.22	77.6	1022.28	10.88	89.4
25/07/2011 17:38:10.000'	-1.03	27.21	77.6	1022.28	10.87	89.4
25/07/2011 18:38:10.000'	-1.03	27.21	77.6	1022.28	10.85	89.2
25/07/2011 19:38:10.000'	-1.03	27.21	77.7	1022.28	10.85	89.2
25/07/2011 20:38:10.000'	-1.02	27.21	77.7	1022.27	10.85	89.2
25/07/2011 21:38:10.000'	-1.03	27.21	77.7	1022.28	10.85	89.2
25/07/2011 22:38:10.000'	-1.04	27.22	77.7	1022.28	10.87	89.4
25/07/2011 23:38:10.000'	-1.04	27.22	77.7	1022.28	10.87	89.4
26/07/2011 00:38:10.000'	-1.04	27.22	77.7	1022.28	10.88	89.4
26/07/2011 01:38:10.000'	-1.03	27.22	77.7	1022.28	10.86	89.3
26/07/2011 02:38:10.000'	-1.03	27.21	77.6	1022.28	10.86	89.3
26/07/2011 03:38:10.000'	-1.03	27.21	77.6	1022.28	10.86	89.3
26/07/2011 04:38:10.000'	-1.03	27.21	77.6	1022.28	10.86	89.3
26/07/2011 05:38:10.000'	-1.03	27.21	77.5	1022.28	10.86	89.3
26/07/2011 06:38:10.000'	-1.03	27.21	77.5	1022.27	10.85	89.2
26/07/2011 07:38:10.000'	-1.03	27.21	77.5	1022.27	10.82	89.0
26/07/2011 08:38:10.000'	-1.02	27.21	77.5	1022.27	10.82	89.0
26/07/2011 09:38:10.000'	-1.02	27.21	77.6	1022.27	10.82	89.0
26/07/2011 10:38:10.000'	-1.02	27.21	77.6	1022.27	10.83	89.1
26/07/2011 11:38:10.000'	-1.02	27.21	77.7	1022.28	10.84	89.1
26/07/2011 12:38:10.000'	-1.02	27.21	77.7	1022.28	10.84	89.1
26/07/2011 13:38:10.000'	-1.03	27.21	77.8	1022.28	10.90	89.6
26/07/2011 14:38:10.000'	-1.03	27.21	77.8	1022.28	10.90	89.6
26/07/2011 15:38:10.000'	-1.03	27.22	77.8	1022.28	10.90	89.6
26/07/2011 16:38:10.000'	-1.03	27.22	77.8	1022.28	10.90	89.7
26/07/2011 17:38:10.000'	-1.03	27.22	77.8	1022.28	10.89	89.5
26/07/2011 18:38:10.000'	-1.03	27.22	77.8	1022.28	10.90	89.6
26/07/2011 19:38:10.000'	-1.03	27.22	77.8	1022.28	10.88	89.4
26/07/2011 20:38:10.000'	-1.03	27.22	77.7	1022.28	10.90	89.6
26/07/2011 21:38:10.000'	-1.03	27.22	77.7	1022.28	10.89	89.5
26/07/2011 22:38:10.000'	-1.03	27.22	77.7	1022.28	10.88	89.5
26/07/2011 23:38:10.000'	-1.03	27.22	77.7	1022.28	10.88	89.5
27/07/2011 00:38:10.000'	-1.03	27.22	77.7	1022.28	10.86	89.3
27/07/2011 01:38:10.000'	-1.03	27.22	77.7	1022.28	10.86	89.3
27/07/2011 02:38:10.000'	-1.03	27.21	77.6	1022.27	10.86	89.3
27/07/2011 03:38:10.000'	-1.03	27.21	77.6	1022.27	10.85	89.2
27/07/2011 04:38:10.000'	-1.03	27.21	77.6	1022.27	10.85	89.2
27/07/2011 05:38:10.000'	-1.03	27.21	77.5	1022.27	10.85	89.2

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
27/07/2011 06:38:10.000'	-1.03	27.21	77.5	1022.28	10.87	89.4
27/07/2011 07:38:10.000'	-1.03	27.21	77.5	1022.28	10.86	89.3
27/07/2011 08:38:10.000'	-1.03	27.21	77.6	1022.28	10.86	89.3
27/07/2011 09:38:10.000'	-1.03	27.21	77.6	1022.28	10.83	89.1
27/07/2011 10:38:10.000'	-1.02	27.21	77.6	1022.28	10.83	89.1
27/07/2011 11:38:10.000'	-1.03	27.21	77.7	1022.27	10.83	89.0
27/07/2011 12:38:10.000'	-1.03	27.21	77.8	1022.27	10.85	89.2
27/07/2011 13:38:10.000'	-1.03	27.21	77.8	1022.27	10.85	89.2
27/07/2011 14:38:10.000'	-1.03	27.21	77.8	1022.28	10.85	89.2
27/07/2011 15:38:10.000'	-1.03	27.21	77.8	1022.28	10.84	89.1
27/07/2011 16:38:10.000'	-1.02	27.21	77.8	1022.28	10.84	89.2
27/07/2011 17:38:10.000'	-1.03	27.21	77.8	1022.28	10.85	89.2
27/07/2011 18:38:10.000'	-1.03	27.21	77.8	1022.28	10.85	89.2
27/07/2011 19:38:10.000'	-1.03	27.21	77.8	1022.28	10.86	89.3
27/07/2011 20:38:10.000'	-1.03	27.21	77.7	1022.27	10.85	89.2
27/07/2011 21:38:10.000'	-1.02	27.21	77.7	1022.27	10.85	89.2
27/07/2011 22:38:10.000'	-1.02	27.21	77.7	1022.27	10.83	89.1
27/07/2011 23:38:10.000'	-1.02	27.21	77.7	1022.27	10.83	89.1
28/07/2011 00:38:10.000'	-1.02	27.21	77.7	1022.27	10.83	89.1
28/07/2011 01:38:10.000'	-1.02	27.21	77.6	1022.27	10.81	88.9
28/07/2011 02:38:10.000'	-1.02	27.21	77.6	1022.27	10.80	88.8
28/07/2011 03:38:10.000'	-1.02	27.21	77.6	1022.27	10.80	88.8
28/07/2011 04:38:10.000'	-1.02	27.21	77.5	1022.27	10.81	88.9
28/07/2011 05:38:10.000'	-1.02	27.21	77.5	1022.27	10.81	88.9
28/07/2011 06:38:10.000'	-1.02	27.21	77.5	1022.27	10.82	89.0
28/07/2011 07:38:10.000'	-1.02	27.21	77.5	1022.27	10.81	88.9
28/07/2011 08:38:10.000'	-1.02	27.21	77.5	1022.27	10.82	89.0
28/07/2011 09:38:10.000'	-1.02	27.21	77.5	1022.27	10.82	89.0
28/07/2011 10:38:10.000'	-1.02	27.21	77.5	1022.27	10.81	88.9
28/07/2011 11:38:10.000'	-1.02	27.21	77.6	1022.27	10.81	88.9
28/07/2011 12:38:10.000'	-1.02	27.21	77.7	1022.27	10.80	88.9
28/07/2011 13:38:10.000'	-1.02	27.21	77.7	1022.27	10.81	89.0
28/07/2011 14:38:10.000'	-1.02	27.21	77.8	1022.27	10.80	88.9
28/07/2011 15:38:10.000'	-1.02	27.21	77.8	1022.28	10.82	89.0
28/07/2011 16:38:10.000'	-1.02	27.21	77.8	1022.28	10.82	89.0
28/07/2011 17:38:10.000'	-1.02	27.21	77.8	1022.28	10.82	89.0
28/07/2011 18:38:10.000'	-1.02	27.21	77.8	1022.28	10.82	89.0
28/07/2011 19:38:10.000'	-1.02	27.21	77.7	1022.28	10.81	88.9
28/07/2011 20:38:10.000'	-1.02	27.21	77.7	1022.28	10.82	89.0
28/07/2011 21:38:10.000'	-1.03	27.22	77.6	1022.28	10.82	88.9
28/07/2011 22:38:10.000'	-1.03	27.22	77.6	1022.28	10.82	88.9
28/07/2011 23:38:10.000'	-1.03	27.22	77.6	1022.28	10.80	88.8
29/07/2011 00:38:10.000'	-1.03	27.22	77.6	1022.28	10.81	88.9
29/07/2011 01:38:10.000'	-1.03	27.22	77.6	1022.28	10.80	88.8
29/07/2011 02:38:10.000'	-1.03	27.22	77.6	1022.28	10.82	89.0
29/07/2011 03:38:10.000'	-1.03	27.22	77.6	1022.28	10.83	89.1

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
29/07/2011 04:38:10.000'	-1.03	27.22	77.5	1022.28	10.83	89.1
29/07/2011 05:38:10.000'	-1.03	27.22	77.5	1022.28	10.83	89.1
29/07/2011 06:38:10.000'	-1.03	27.21	77.5	1022.28	10.83	89.1
29/07/2011 07:38:10.000'	-1.03	27.22	77.5	1022.28	10.81	88.9
29/07/2011 08:38:10.000'	-1.03	27.21	77.5	1022.28	10.81	88.9
29/07/2011 09:38:10.000'	-1.03	27.22	77.5	1022.28	10.80	88.8
29/07/2011 10:38:10.000'	-1.03	27.22	77.5	1022.28	10.80	88.8
29/07/2011 11:38:10.000'	-1.03	27.22	77.6	1022.28	10.82	89.0
29/07/2011 12:38:10.000'	-1.03	27.22	77.6	1022.28	10.82	89.0
29/07/2011 13:38:10.000'	-1.03	27.21	77.7	1022.28	10.81	88.9
29/07/2011 14:38:10.000'	-1.03	27.22	77.8	1022.28	10.81	88.9
29/07/2011 15:38:10.000'	-1.03	27.22	77.8	1022.28	10.81	88.9
29/07/2011 16:38:10.000'	-1.03	27.22	77.8	1022.29	10.87	89.4
29/07/2011 17:38:10.000'	-1.03	27.22	77.8	1022.28	10.89	89.5
29/07/2011 18:38:10.000'	-1.04	27.23	77.8	1022.29	10.92	89.8
29/07/2011 19:38:10.000'	-1.04	27.22	77.8	1022.29	10.91	89.7
29/07/2011 20:38:10.000'	-1.04	27.23	77.7	1022.29	10.93	89.8
29/07/2011 21:38:10.000'	-1.04	27.23	77.7	1022.29	10.92	89.8
29/07/2011 22:38:10.000'	-1.04	27.23	77.6	1022.29	10.92	89.8
29/07/2011 23:38:10.000'	-1.04	27.23	77.6	1022.29	10.91	89.7
30/07/2011 00:38:10.000'	-1.04	27.23	77.6	1022.29	10.90	89.6
30/07/2011 01:38:10.000'	-1.04	27.22	77.6	1022.29	10.90	89.7
30/07/2011 02:38:10.000'	-1.04	27.23	77.6	1022.29	10.88	89.4
30/07/2011 03:38:10.000'	-1.04	27.23	77.6	1022.29	10.84	89.1
30/07/2011 04:38:10.000'	-1.04	27.23	77.5	1022.29	10.82	89.0
30/07/2011 05:38:10.000'	-1.04	27.23	77.5	1022.29	10.82	89.0
30/07/2011 06:38:10.000'	-1.04	27.23	77.5	1022.29	10.82	89.0
30/07/2011 07:38:10.000'	-1.04	27.23	77.5	1022.29	10.82	89.0
30/07/2011 08:38:10.000'	-1.03	27.23	77.4	1022.29	10.87	89.4
30/07/2011 09:38:10.000'	-1.03	27.22	77.4	1022.28	10.88	89.5
30/07/2011 10:38:10.000'	-1.04	27.23	77.4	1022.29	10.90	89.6
30/07/2011 11:38:10.000'	-1.04	27.23	77.5	1022.29	10.89	89.6
30/07/2011 12:38:10.000'	-1.04	27.23	77.6	1022.29	10.90	89.6
30/07/2011 13:38:10.000'	-1.04	27.23	77.6	1022.29	10.89	89.6
30/07/2011 14:38:10.000'	-1.04	27.23	77.7	1022.29	10.89	89.6
30/07/2011 15:38:10.000'	-1.04	27.23	77.8	1022.29	10.89	89.5
30/07/2011 16:38:10.000'	-1.04	27.23	77.8	1022.29	10.90	89.6
30/07/2011 17:38:10.000'	-1.04	27.23	77.8	1022.29	10.90	89.6
30/07/2011 18:38:10.000'	-1.04	27.23	77.8	1022.29	10.92	89.8
30/07/2011 19:38:10.000'	-1.04	27.23	77.8	1022.29	10.91	89.7
30/07/2011 20:38:10.000'	-1.04	27.23	77.7	1022.29	10.91	89.7
30/07/2011 21:38:10.000'	-1.04	27.23	77.6	1022.29	10.90	89.6
30/07/2011 22:38:10.000'	-1.04	27.23	77.6	1022.29	10.90	89.6
30/07/2011 23:38:10.000'	-1.04	27.23	77.5	1022.29	10.89	89.6
31/07/2011 00:38:10.000'	-1.04	27.23	77.5	1022.29	10.90	89.6
31/07/2011 01:38:10.000'	-1.04	27.23	77.5	1022.29	10.90	89.6

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
31/07/2011 02:38:10.000'	-1.04	27.23	77.5	1022.29	10.90	89.6
31/07/2011 03:38:10.000'	-1.04	27.23	77.5	1022.29	10.90	89.6
31/07/2011 04:38:10.000'	-1.04	27.23	77.5	1022.29	10.90	89.6
31/07/2011 05:38:10.000'	-1.04	27.23	77.5	1022.29	10.90	89.6
31/07/2011 06:38:10.000'	-1.04	27.23	77.5	1022.29	10.90	89.6
31/07/2011 07:38:10.000'	-1.04	27.23	77.5	1022.29	10.90	89.6
31/07/2011 08:38:10.000'	-1.04	27.23	77.4	1022.29	10.90	89.6
31/07/2011 09:38:10.000'	-1.04	27.23	77.4	1022.29	10.90	89.6
31/07/2011 10:38:10.000'	-1.04	27.23	77.4	1022.29	10.90	89.6
31/07/2011 11:38:10.000'	-1.04	27.24	77.5	1022.29	10.90	89.6
31/07/2011 12:38:10.000'	-1.04	27.23	77.5	1022.29	10.90	89.6
31/07/2011 13:38:10.000'	-1.04	27.23	77.6	1022.29	10.90	89.6
31/07/2011 14:38:10.000'	-1.04	27.23	77.7	1022.29	10.90	89.6
31/07/2011 15:38:10.000'	-1.04	27.23	77.7	1022.29	10.90	89.6
31/07/2011 16:38:10.000'	-1.04	27.23	77.8	1022.29	10.89	89.5
31/07/2011 17:38:10.000'	-1.04	27.23	77.8	1022.29	10.88	89.5
31/07/2011 18:38:10.000'	-1.04	27.23	77.8	1022.29	10.88	89.5
31/07/2011 19:38:10.000'	-1.04	27.23	77.8	1022.29	10.88	89.4
31/07/2011 20:38:10.000'	-1.04	27.23	77.7	1022.29	10.89	89.6
31/07/2011 21:38:10.000'	-1.04	27.23	77.6	1022.29	10.89	89.5
31/07/2011 22:38:10.000'	-1.04	27.23	77.5	1022.29	10.90	89.6
31/07/2011 23:38:10.000'	-1.04	27.23	77.5	1022.29	10.89	89.5
01/08/2011 00:38:10.000'	-1.04	27.23	77.4	1022.29	10.86	89.3
01/08/2011 01:38:10.000'	-1.04	27.23	77.4	1022.29	10.86	89.3
01/08/2011 02:38:10.000'	-1.04	27.23	77.4	1022.29	10.86	89.3
01/08/2011 03:38:10.000'	-1.04	27.23	77.4	1022.29	10.85	89.2
01/08/2011 04:38:10.000'	-1.04	27.23	77.4	1022.29	10.86	89.3
01/08/2011 05:38:10.000'	-1.04	27.23	77.4	1022.29	10.88	89.5
01/08/2011 06:38:10.000'	-1.04	27.23	77.4	1022.29	10.88	89.4
01/08/2011 07:38:10.000'	-1.04	27.23	77.4	1022.29	10.88	89.5
01/08/2011 08:38:10.000'	-1.04	27.23	77.4	1022.29	10.88	89.4
01/08/2011 09:38:10.000'	-1.04	27.23	77.3	1022.29	10.91	89.7
01/08/2011 10:38:10.000'	-1.04	27.23	77.3	1022.29	10.91	89.7
01/08/2011 11:38:10.000'	-1.04	27.23	77.3	1022.29	10.91	89.7
01/08/2011 12:38:10.000'	-1.04	27.23	77.4	1022.29	10.88	89.5
01/08/2011 13:38:10.000'	-1.04	27.23	77.4	1022.29	10.89	89.6
01/08/2011 14:38:10.000'	-1.04	27.23	77.5	1022.29	10.89	89.6
01/08/2011 15:38:10.000'	-1.04	27.23	77.6	1022.29	10.89	89.6
01/08/2011 16:38:10.000'	-1.04	27.23	77.7	1022.29	10.88	89.5
01/08/2011 17:38:10.000'	-1.04	27.23	77.7	1022.29	10.86	89.3
01/08/2011 18:38:10.000'	-1.04	27.23	77.7	1022.29	10.86	89.3
01/08/2011 19:38:10.000'	-1.04	27.23	77.7	1022.29	10.87	89.4
01/08/2011 20:38:10.000'	-1.04	27.23	77.7	1022.29	10.85	89.2
01/08/2011 21:38:10.000'	-1.04	27.23	77.6	1022.29	10.86	89.3
01/08/2011 22:38:10.000'	-1.04	27.23	77.5	1022.29	10.85	89.2
01/08/2011 23:38:10.000'	-1.04	27.23	77.5	1022.29	10.86	89.3

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
02/08/2011 00:38:10.000'	-1.04	27.23	77.4	1022.29	10.85	89.3
02/08/2011 01:38:10.000'	-1.04	27.23	77.4	1022.29	10.86	89.3
02/08/2011 02:38:10.000'	-1.04	27.23	77.4	1022.29	10.85	89.2
02/08/2011 03:38:10.000'	-1.04	27.23	77.4	1022.29	10.85	89.2
02/08/2011 04:38:10.000'	-1.04	27.23	77.4	1022.29	10.83	89.0
02/08/2011 05:38:10.000'	-1.04	27.23	77.4	1022.29	10.84	89.1
02/08/2011 06:38:10.000'	-1.04	27.23	77.4	1022.29	10.83	89.1
02/08/2011 07:38:10.000'	-1.04	27.23	77.4	1022.29	10.83	89.1
02/08/2011 08:38:10.000'	-1.04	27.23	77.4	1022.29	10.85	89.2
02/08/2011 09:38:10.000'	-1.04	27.23	77.4	1022.29	10.85	89.2
02/08/2011 10:38:10.000'	-1.04	27.23	77.4	1022.29	10.85	89.2
02/08/2011 11:38:10.000'	-1.04	27.23	77.4	1022.29	10.83	89.1
02/08/2011 12:38:10.000'	-1.04	27.23	77.4	1022.29	10.83	89.1
02/08/2011 13:38:10.000'	-1.04	27.23	77.4	1022.29	10.82	89.0
02/08/2011 14:38:10.000'	-1.04	27.23	77.5	1022.29	10.85	89.2
02/08/2011 15:38:10.000'	-1.04	27.23	77.6	1022.29	10.84	89.1
02/08/2011 16:38:10.000'	-1.04	27.23	77.7	1022.29	10.85	89.2
02/08/2011 17:38:10.000'	-1.04	27.23	77.8	1022.29	10.84	89.1
02/08/2011 18:38:10.000'	-1.03	27.23	77.8	1022.29	10.84	89.1
02/08/2011 19:38:10.000'	-1.04	27.23	77.8	1022.29	10.84	89.1
02/08/2011 20:38:10.000'	-1.03	27.23	77.8	1022.29	10.84	89.1
02/08/2011 21:38:10.000'	-1.03	27.23	77.7	1022.29	10.84	89.1
02/08/2011 22:38:10.000'	-1.03	27.23	77.7	1022.29	10.84	89.1
02/08/2011 23:38:10.000'	-1.03	27.23	77.6	1022.29	10.83	89.1
03/08/2011 00:38:10.000'	-1.04	27.23	77.5	1022.29	10.83	89.0
03/08/2011 01:38:10.000'	-1.03	27.23	77.5	1022.29	10.82	88.9
03/08/2011 02:38:10.000'	-1.03	27.23	77.5	1022.29	10.83	89.1
03/08/2011 03:38:10.000'	-1.03	27.23	77.5	1022.29	10.83	89.1
03/08/2011 04:38:10.000'	-1.03	27.23	77.5	1022.29	10.82	89.0
03/08/2011 05:38:10.000'	-1.03	27.23	77.5	1022.29	10.82	89.0
03/08/2011 06:38:10.000'	-1.03	27.23	77.5	1022.29	10.82	89.0
03/08/2011 07:38:10.000'	-1.03	27.23	77.5	1022.29	10.82	89.0
03/08/2011 08:38:10.000'	-1.03	27.23	77.5	1022.29	10.83	89.1
03/08/2011 09:38:10.000'	-1.03	27.23	77.5	1022.29	10.83	89.0
03/08/2011 10:38:10.000'	-1.03	27.23	77.5	1022.29	10.81	88.9
03/08/2011 11:38:10.000'	-1.03	27.23	77.5	1022.29	10.80	88.8
03/08/2011 12:38:10.000'	-1.03	27.23	77.5	1022.29	10.80	88.8
03/08/2011 13:38:10.000'	-1.03	27.23	77.5	1022.29	10.84	89.2
03/08/2011 14:38:10.000'	-1.03	27.23	77.5	1022.29	10.85	89.2
03/08/2011 15:38:10.000'	-1.03	27.23	77.6	1022.29	10.84	89.1
03/08/2011 16:38:10.000'	-1.03	27.23	77.6	1022.29	10.84	89.2
03/08/2011 17:38:10.000'	-1.03	27.23	77.7	1022.29	10.83	89.1
03/08/2011 18:38:10.000'	-1.03	27.23	77.8	1022.29	10.83	89.0
03/08/2011 19:38:10.000'	-1.03	27.23	77.8	1022.29	10.83	89.1
03/08/2011 20:38:10.000'	-1.02	27.23	77.8	1022.29	10.84	89.2
03/08/2011 21:38:10.000'	-1.02	27.23	77.7	1022.29	10.84	89.1

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
03/08/2011 22:38:10.000'	-1.02	27.23	77.7	1022.29	10.84	89.1
03/08/2011 23:38:10.000'	-1.02	27.23	77.6	1022.29	10.83	89.1
04/08/2011 00:38:10.000'	-1.02	27.23	77.5	1022.29	10.84	89.2
04/08/2011 01:38:10.000'	-1.02	27.23	77.4	1022.29	10.83	89.1
04/08/2011 02:38:10.000'	-1.02	27.23	77.4	1022.29	10.83	89.1
04/08/2011 03:38:10.000'	-1.03	27.23	77.4	1022.29	10.83	89.1
04/08/2011 04:38:10.000'	-1.03	27.23	77.4	1022.29	10.83	89.1
04/08/2011 05:38:10.000'	-1.03	27.23	77.4	1022.29	10.83	89.1
04/08/2011 06:38:10.000'	-1.03	27.23	77.5	1022.29	10.82	89.0
04/08/2011 07:38:10.000'	-1.03	27.23	77.5	1022.29	10.83	89.1
04/08/2011 08:38:10.000'	-1.03	27.23	77.5	1022.29	10.83	89.1
04/08/2011 09:38:10.000'	-1.03	27.23	77.5	1022.29	10.82	89.0
04/08/2011 10:38:10.000'	-1.03	27.23	77.5	1022.29	10.82	89.0
04/08/2011 11:38:10.000'	-1.03	27.23	77.5	1022.29	10.83	89.1
04/08/2011 12:38:10.000'	-1.02	27.23	77.5	1022.29	10.82	89.0
04/08/2011 13:38:10.000'	-1.02	27.23	77.5	1022.29	10.82	89.0
04/08/2011 14:38:10.000'	-1.02	27.23	77.5	1022.29	10.82	89.0
04/08/2011 15:38:10.000'	-1.02	27.23	77.5	1022.29	10.83	89.1
04/08/2011 16:38:10.000'	-1.02	27.23	77.6	1022.29	10.84	89.1
04/08/2011 17:38:10.000'	-1.03	27.23	77.7	1022.29	10.83	89.1
04/08/2011 18:38:10.000'	-1.03	27.23	77.7	1022.29	10.82	89.0
04/08/2011 19:38:10.000'	-1.03	27.23	77.7	1022.29	10.82	88.9
04/08/2011 20:38:10.000'	-1.03	27.23	77.7	1022.29	10.81	88.9
04/08/2011 21:38:10.000'	-1.03	27.23	77.7	1022.29	10.81	88.9
04/08/2011 22:38:10.000'	-1.03	27.22	77.7	1022.29	10.80	88.8
04/08/2011 23:38:10.000'	-1.03	27.23	77.6	1022.29	10.80	88.8
05/08/2011 00:38:10.000'	-1.04	27.23	77.5	1022.29	10.78	88.7
05/08/2011 01:38:10.000'	-1.03	27.23	77.5	1022.29	10.81	88.9
05/08/2011 02:38:10.000'	-1.03	27.23	77.4	1022.29	10.80	88.8
05/08/2011 03:38:10.000'	-1.04	27.23	77.4	1022.29	10.78	88.6
05/08/2011 04:38:10.000'	-1.03	27.23	77.4	1022.29	10.77	88.5
05/08/2011 05:38:10.000'	-1.03	27.23	77.4	1022.29	10.76	88.5
05/08/2011 06:38:10.000'	-1.03	27.22	77.4	1022.28	10.77	88.5
05/08/2011 07:38:10.000'	-1.03	27.22	77.5	1022.28	10.79	88.7
05/08/2011 08:38:10.000'	-1.03	27.22	77.5	1022.28	10.79	88.7
05/08/2011 09:38:10.000'	-1.03	27.23	77.5	1022.29	10.77	88.5
05/08/2011 10:38:10.000'	-1.03	27.23	77.5	1022.29	10.77	88.5
05/08/2011 11:38:10.000'	-1.03	27.23	77.5	1022.29	10.76	88.5
05/08/2011 12:38:10.000'	-1.02	27.22	77.5	1022.28	10.64	87.5
05/08/2011 13:38:10.000'	-1.02	27.23	77.5	1022.29	10.64	87.5
05/08/2011 14:38:10.000'	-1.02	27.23	77.5	1022.29	10.62	87.4
05/08/2011 15:38:10.000'	-1.02	27.23	77.5	1022.29	10.62	87.4
05/08/2011 16:38:10.000'	-1.02	27.22	77.5	1022.28	10.62	87.4
05/08/2011 17:38:10.000'	-1.02	27.22	77.6	1022.28	10.64	87.5
05/08/2011 18:38:10.000'	-1.02	27.22	77.6	1022.29	10.64	87.5
05/08/2011 19:38:10.000'	-1.02	27.22	77.7	1022.28	10.75	88.4

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
05/08/2011 20:38:10.000'	-1.02	27.22	77.7	1022.29	10.77	88.6
05/08/2011 21:38:10.000'	-1.02	27.23	77.7	1022.29	10.79	88.8
05/08/2011 22:38:10.000'	-1.02	27.23	77.7	1022.29	10.80	88.8
05/08/2011 23:38:10.000'	-1.02	27.23	77.6	1022.29	10.80	88.8
06/08/2011 00:38:10.000'	-1.02	27.23	77.6	1022.29	10.81	88.9
06/08/2011 01:38:10.000'	-1.02	27.23	77.5	1022.29	10.81	88.9
06/08/2011 02:38:10.000'	-1.02	27.23	77.4	1022.29	10.83	89.1
06/08/2011 03:38:10.000'	-1.02	27.24	77.4	1022.29	10.82	89.0
06/08/2011 04:38:10.000'	-1.02	27.23	77.4	1022.29	10.84	89.2
06/08/2011 05:38:10.000'	-1.02	27.23	77.4	1022.29	10.85	89.3
06/08/2011 06:38:10.000'	-1.02	27.23	77.4	1022.29	10.85	89.3
06/08/2011 07:38:10.000'	-1.02	27.23	77.4	1022.29	10.85	89.2
06/08/2011 08:38:10.000'	-1.02	27.23	77.5	1022.29	10.85	89.2
06/08/2011 09:38:10.000'	-1.02	27.23	77.5	1022.29	10.83	89.1
06/08/2011 10:38:10.000'	-1.02	27.23	77.6	1022.29	10.83	89.1
06/08/2011 11:38:10.000'	-1.02	27.23	77.6	1022.29	10.80	88.9
06/08/2011 12:38:10.000'	-1.02	27.23	77.6	1022.29	10.78	88.7
06/08/2011 13:38:10.000'	-1.02	27.23	77.6	1022.29	10.79	88.8
06/08/2011 14:38:10.000'	-1.02	27.23	77.5	1022.29	10.79	88.8
06/08/2011 15:38:10.000'	-1.02	27.23	77.5	1022.29	10.82	89.0
06/08/2011 16:38:10.000'	-1.02	27.23	77.5	1022.29	10.82	89.0
06/08/2011 17:38:10.000'	-1.02	27.23	77.6	1022.29	10.82	89.0
06/08/2011 18:38:10.000'	-1.02	27.23	77.6	1022.29	10.81	88.9
06/08/2011 19:38:10.000'	-1.02	27.23	77.6	1022.29	10.81	88.9
06/08/2011 20:38:10.000'	-1.02	27.23	77.7	1022.29	10.80	88.9
06/08/2011 21:38:10.000'	-1.02	27.23	77.7	1022.29	10.81	88.9
06/08/2011 22:38:10.000'	-1.02	27.24	77.7	1022.29	10.80	88.9
06/08/2011 23:38:10.000'	-1.02	27.23	77.7	1022.29	10.81	88.9
07/08/2011 00:38:10.000'	-1.02	27.23	77.6	1022.29	10.82	89.0
07/08/2011 01:38:10.000'	-1.02	27.23	77.5	1022.29	10.83	89.1
07/08/2011 02:38:10.000'	-1.02	27.23	77.5	1022.29	10.81	88.9
07/08/2011 03:38:10.000'	-1.02	27.23	77.4	1022.29	10.81	88.9
07/08/2011 04:38:10.000'	-1.02	27.23	77.4	1022.29	10.80	88.8
07/08/2011 05:38:10.000'	-1.02	27.23	77.4	1022.29	10.77	88.6
07/08/2011 06:38:10.000'	-1.02	27.23	77.4	1022.29	10.77	88.6
07/08/2011 07:38:10.000'	-1.02	27.23	77.4	1022.29	10.77	88.6
07/08/2011 08:38:10.000'	-1.02	27.23	77.5	1022.29	10.77	88.6
07/08/2011 09:38:10.000'	-1.02	27.23	77.5	1022.29	10.74	88.3
07/08/2011 10:38:10.000'	-1.02	27.23	77.6	1022.29	10.74	88.3
07/08/2011 11:38:10.000'	-1.02	27.23	77.6	1022.29	10.73	88.3
07/08/2011 12:38:10.000'	-1.02	27.23	77.6	1022.29	10.74	88.3
07/08/2011 13:38:10.000'	-1.02	27.23	77.6	1022.29	10.74	88.3
07/08/2011 14:38:10.000'	-1.02	27.23	77.6	1022.29	10.74	88.3
07/08/2011 15:38:10.000'	-1.02	27.23	77.6	1022.29	10.74	88.3
07/08/2011 16:38:10.000'	-1.02	27.23	77.6	1022.29	10.74	88.4
07/08/2011 17:38:10.000'	-1.02	27.23	77.6	1022.29	10.77	88.6

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
07/08/2011 18:38:10.000'	-1.02	27.23	77.6	1022.29	10.79	88.7
07/08/2011 19:38:10.000'	-1.02	27.23	77.6	1022.29	10.79	88.8
07/08/2011 20:38:10.000'	-1.02	27.23	77.6	1022.29	10.80	88.9
07/08/2011 21:38:10.000'	-1.02	27.24	77.6	1022.29	10.85	89.2
07/08/2011 22:38:10.000'	-1.02	27.24	77.6	1022.29	10.85	89.2
07/08/2011 23:38:10.000'	-1.02	27.24	77.6	1022.29	10.86	89.3
08/08/2011 00:38:10.000'	-1.02	27.24	77.5	1022.29	10.85	89.2
08/08/2011 01:38:10.000'	-1.02	27.24	77.5	1022.30	10.85	89.2
08/08/2011 02:38:10.000'	-1.02	27.24	77.4	1022.30	10.83	89.1
08/08/2011 03:38:10.000'	-1.02	27.24	77.4	1022.29	10.82	89.0
08/08/2011 04:38:10.000'	-1.01	27.24	77.3	1022.30	10.83	89.1
08/08/2011 05:38:10.000'	-1.02	27.24	77.3	1022.30	10.85	89.3
08/08/2011 06:38:10.000'	-1.02	27.24	77.3	1022.30	10.85	89.3
08/08/2011 07:38:10.000'	-1.02	27.24	77.3	1022.30	10.85	89.2
08/08/2011 08:38:10.000'	-1.02	27.24	77.4	1022.30	10.85	89.3
08/08/2011 09:38:10.000'	-1.02	27.24	77.4	1022.30	10.84	89.2
08/08/2011 10:38:10.000'	-1.02	27.24	77.5	1022.30	10.84	89.2
08/08/2011 11:38:10.000'	-1.02	27.24	77.5	1022.30	10.85	89.2
08/08/2011 12:38:10.000'	-1.02	27.24	77.5	1022.30	10.84	89.2
08/08/2011 13:38:10.000'	-1.02	27.25	77.5	1022.30	10.85	89.3
08/08/2011 14:38:10.000'	-1.02	27.25	77.5	1022.30	10.87	89.5
08/08/2011 15:38:10.000'	-1.02	27.25	77.5	1022.30	10.87	89.4
08/08/2011 16:38:10.000'	-1.02	27.25	77.5	1022.30	10.92	89.8
08/08/2011 17:38:10.000'	-1.02	27.25	77.5	1022.30	10.92	89.8
08/08/2011 18:38:10.000'	-1.02	27.25	77.5	1022.30	10.92	89.8
08/08/2011 19:38:10.000'	-1.02	27.25	77.5	1022.30	10.91	89.7
08/08/2011 20:38:10.000'	-1.02	27.25	77.5	1022.30	10.87	89.4
08/08/2011 21:38:10.000'	-1.02	27.25	77.5	1022.30	10.88	89.5
08/08/2011 22:38:10.000'	-1.02	27.25	77.5	1022.30	10.88	89.5
08/08/2011 23:38:10.000'	-1.02	27.25	77.5	1022.30	10.87	89.4
09/08/2011 00:38:10.000'	-1.01	27.25	77.5	1022.31	10.92	89.8
09/08/2011 01:38:10.000'	-1.01	27.25	77.5	1022.31	10.91	89.8
09/08/2011 02:38:10.000'	-1.01	27.25	77.5	1022.31	10.91	89.8
09/08/2011 03:38:10.000'	-1.01	27.25	77.4	1022.31	10.89	89.6
09/08/2011 04:38:10.000'	-1.01	27.25	77.4	1022.31	10.89	89.6
09/08/2011 05:38:10.000'	-1.01	27.25	77.4	1022.31	10.89	89.6
09/08/2011 06:38:10.000'	-1.01	27.26	77.4	1022.31	10.89	89.6
09/08/2011 07:38:10.000'	-1.01	27.25	77.4	1022.31	10.91	89.8
09/08/2011 08:38:10.000'	-1.01	27.25	77.4	1022.31	10.92	89.9
09/08/2011 09:38:10.000'	-1.01	27.26	77.5	1022.31	10.94	90.0
09/08/2011 10:38:10.000'	-1.01	27.25	77.6	1022.31	10.93	90.0
09/08/2011 11:38:10.000'	-1.01	27.25	77.6	1022.31	10.91	89.8
09/08/2011 12:38:10.000'	-1.01	27.26	77.7	1022.31	10.89	89.6
09/08/2011 13:38:10.000'	-1.01	27.26	77.7	1022.31	10.90	89.7
09/08/2011 14:38:10.000'	-1.01	27.26	77.7	1022.31	10.87	89.5
09/08/2011 15:38:10.000'	-1.01	27.26	77.7	1022.31	10.88	89.5

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
09/08/2011 16:38:10.000'	-1.01	27.26	77.7	1022.31	10.86	89.4
09/08/2011 17:38:10.000'	-1.01	27.25	77.6	1022.31	10.85	89.3
09/08/2011 18:38:10.000'	-1.01	27.26	77.6	1022.31	10.85	89.3
09/08/2011 19:38:10.000'	-1.01	27.26	77.6	1022.31	10.84	89.2
09/08/2011 20:38:10.000'	-1.01	27.25	77.5	1022.31	10.85	89.3
09/08/2011 21:38:10.000'	-1.01	27.25	77.5	1022.31	10.88	89.6
09/08/2011 22:38:10.000'	-1.01	27.25	77.5	1022.31	10.89	89.6
09/08/2011 23:38:10.000'	-1.01	27.25	77.5	1022.31	10.90	89.7
10/08/2011 00:38:10.000'	-1.01	27.25	77.5	1022.31	10.89	89.7
10/08/2011 01:38:10.000'	-1.01	27.26	77.5	1022.31	10.90	89.7
10/08/2011 02:38:10.000'	-1.01	27.26	77.5	1022.31	10.89	89.7
10/08/2011 03:38:10.000'	-1.01	27.26	77.5	1022.31	10.89	89.6
10/08/2011 04:38:10.000'	-1.01	27.26	77.4	1022.31	10.91	89.8
10/08/2011 05:38:10.000'	-1.01	27.26	77.4	1022.31	10.89	89.6
10/08/2011 06:38:10.000'	-1.01	27.25	77.4	1022.31	10.89	89.6
10/08/2011 07:38:10.000'	-1.01	27.26	77.4	1022.31	10.88	89.6
10/08/2011 08:38:10.000'	-1.01	27.26	77.4	1022.31	10.89	89.6
10/08/2011 09:38:10.000'	-1.01	27.26	77.5	1022.31	10.89	89.6
10/08/2011 10:38:10.000'	-1.01	27.26	77.5	1022.31	10.88	89.5
10/08/2011 11:38:10.000'	-1.01	27.26	77.6	1022.31	10.88	89.6
10/08/2011 12:38:10.000'	-1.01	27.26	77.7	1022.31	10.87	89.5
10/08/2011 13:38:10.000'	-1.01	27.26	77.7	1022.31	10.87	89.4
10/08/2011 14:38:10.000'	-1.01	27.26	77.7	1022.32	10.87	89.5
10/08/2011 15:38:10.000'	-1.01	27.26	77.7	1022.32	10.85	89.3
10/08/2011 16:38:10.000'	-1.01	27.26	77.7	1022.32	10.86	89.4
10/08/2011 17:38:10.000'	-1.01	27.26	77.7	1022.32	10.86	89.4
10/08/2011 18:38:10.000'	-1.01	27.26	77.7	1022.32	10.87	89.4
10/08/2011 19:38:10.000'	-1.01	27.26	77.6	1022.32	10.87	89.5
10/08/2011 20:38:10.000'	-1.01	27.26	77.6	1022.32	10.88	89.5
10/08/2011 21:38:10.000'	-1.01	27.26	77.5	1022.32	10.87	89.5
10/08/2011 22:38:10.000'	-1.01	27.26	77.5	1022.31	10.87	89.5
10/08/2011 23:38:10.000'	-1.01	27.26	77.5	1022.31	10.86	89.4
11/08/2011 00:38:10.000'	-1.01	27.26	77.5	1022.32	10.90	89.7
11/08/2011 01:38:10.000'	-1.01	27.26	77.5	1022.31	10.90	89.7
11/08/2011 02:38:10.000'	-1.00	27.26	77.5	1022.31	10.89	89.7
11/08/2011 03:38:10.000'	-1.01	27.26	77.5	1022.31	10.89	89.7
11/08/2011 04:38:10.000'	-1.00	27.26	77.5	1022.32	10.89	89.7
11/08/2011 05:38:10.000'	-1.00	27.26	77.5	1022.31	10.92	89.9
11/08/2011 06:38:10.000'	-1.00	27.26	77.5	1022.31	10.90	89.8
11/08/2011 07:38:10.000'	-1.01	27.26	77.5	1022.31	10.92	89.9
11/08/2011 08:38:10.000'	-1.01	27.26	77.5	1022.31	10.93	90.0
11/08/2011 09:38:10.000'	-1.00	27.26	77.5	1022.31	10.92	89.9
11/08/2011 10:38:10.000'	-1.01	27.26	77.5	1022.31	10.92	89.9
11/08/2011 11:38:10.000'	-1.01	27.26	77.6	1022.31	10.91	89.8
11/08/2011 12:38:10.000'	-1.00	27.26	77.7	1022.31	10.91	89.8
11/08/2011 13:38:10.000'	-1.00	27.26	77.7	1022.32	10.90	89.8

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
11/08/2011 14:38:10.000'	-1.00	27.26	77.8	1022.32	10.89	89.7
11/08/2011 15:38:10.000'	-1.00	27.26	77.8	1022.32	10.90	89.7
11/08/2011 16:38:10.000'	-1.00	27.26	77.8	1022.31	10.91	89.8
11/08/2011 17:38:10.000'	-1.00	27.26	77.8	1022.32	10.90	89.7
11/08/2011 18:38:10.000'	-1.00	27.26	77.7	1022.31	10.91	89.8
11/08/2011 19:38:10.000'	-1.00	27.26	77.7	1022.32	10.91	89.8
11/08/2011 20:38:10.000'	-1.00	27.26	77.6	1022.31	10.92	89.9
11/08/2011 21:38:10.000'	-1.00	27.26	77.6	1022.31	10.91	89.8
11/08/2011 22:38:10.000'	-1.00	27.26	77.5	1022.31	10.91	89.8
11/08/2011 23:38:10.000'	-1.01	27.26	77.5	1022.31	10.88	89.5
12/08/2011 00:38:10.000'	-1.01	27.26	77.5	1022.31	10.88	89.5
12/08/2011 01:38:10.000'	-1.00	27.26	77.5	1022.31	10.88	89.5
12/08/2011 02:38:10.000'	-1.00	27.26	77.5	1022.31	10.89	89.6
12/08/2011 03:38:10.000'	-1.00	27.27	77.5	1022.32	10.90	89.7
12/08/2011 04:38:10.000'	-1.00	27.26	77.5	1022.32	10.90	89.7
12/08/2011 05:38:10.000'	-1.00	27.26	77.5	1022.32	10.90	89.7
12/08/2011 06:38:10.000'	-1.00	27.27	77.5	1022.32	10.89	89.7
12/08/2011 07:38:10.000'	-0.99	27.27	77.5	1022.32	10.93	90.0
12/08/2011 08:38:10.000'	-0.99	27.27	77.5	1022.32	10.93	90.0
12/08/2011 09:38:10.000'	-0.99	27.27	77.5	1022.32	10.93	90.0
12/08/2011 10:38:10.000'	-0.99	27.27	77.5	1022.32	10.93	90.0
12/08/2011 11:38:10.000'	-0.99	27.27	77.5	1022.32	10.94	90.1
12/08/2011 12:38:10.000'	-0.99	27.27	77.6	1022.32	10.92	89.9
12/08/2011 13:38:10.000'	-0.99	27.27	77.7	1022.32	10.91	89.9
12/08/2011 14:38:10.000'	-0.99	27.27	77.8	1022.32	10.90	89.8
12/08/2011 15:38:10.000'	-0.99	27.27	77.8	1022.32	10.90	89.8
12/08/2011 16:38:10.000'	-0.99	27.27	77.8	1022.32	10.90	89.8
12/08/2011 17:38:10.000'	-0.99	27.27	77.8	1022.32	10.92	89.9
12/08/2011 18:38:10.000'	-1.00	27.26	77.8	1022.32	10.91	89.8
12/08/2011 19:38:10.000'	-1.00	27.26	77.8	1022.32	10.91	89.8
12/08/2011 20:38:10.000'	-1.00	27.27	77.7	1022.32	10.90	89.8
12/08/2011 21:38:10.000'	-0.99	27.27	77.6	1022.32	10.91	89.8
12/08/2011 22:38:10.000'	-0.99	27.27	77.6	1022.32	10.91	89.8
12/08/2011 23:38:10.000'	-0.99	27.27	77.5	1022.32	10.91	89.8
13/08/2011 00:38:10.000'	-0.99	27.27	77.5	1022.32	10.92	89.9
13/08/2011 01:38:10.000'	-0.99	27.26	77.5	1022.32	10.92	89.9
13/08/2011 02:38:10.000'	-0.99	27.27	77.5	1022.32	10.90	89.8
13/08/2011 03:38:10.000'	-1.00	27.27	77.5	1022.32	10.89	89.7
13/08/2011 04:38:10.000'	-1.00	27.27	77.5	1022.32	10.91	89.8
13/08/2011 05:38:10.000'	-0.99	27.27	77.5	1022.32	10.90	89.8
13/08/2011 06:38:10.000'	-0.99	27.27	77.5	1022.32	10.92	89.9
13/08/2011 07:38:10.000'	-0.99	27.27	77.5	1022.32	10.94	90.1
13/08/2011 08:38:10.000'	-0.99	27.27	77.5	1022.32	10.95	90.2
13/08/2011 09:38:10.000'	-0.98	27.27	77.5	1022.32	10.94	90.1
13/08/2011 10:38:10.000'	-0.99	27.27	77.5	1022.32	10.94	90.1
13/08/2011 11:38:10.000'	-0.99	27.27	77.5	1022.32	10.94	90.1

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
13/08/2011 12:38:10.000'	-0.99	27.27	77.6	1022.32	10.93	90.0
13/08/2011 13:38:10.000'	-0.99	27.26	77.6	1022.32	10.92	89.9
13/08/2011 14:38:10.000'	-0.99	27.27	77.7	1022.32	10.92	89.9
13/08/2011 15:38:10.000'	-0.99	27.27	77.8	1022.32	10.91	89.8
13/08/2011 16:38:10.000'	-0.99	27.27	77.8	1022.32	10.90	89.7
13/08/2011 17:38:10.000'	-0.99	27.26	77.8	1022.32	10.89	89.7
13/08/2011 18:38:10.000'	-0.99	27.27	77.8	1022.32	10.89	89.7
13/08/2011 19:38:10.000'	-0.99	27.26	77.8	1022.32	10.89	89.7
13/08/2011 20:38:10.000'	-0.99	27.27	77.7	1022.32	10.89	89.7
13/08/2011 21:38:10.000'	-0.99	27.27	77.6	1022.32	10.93	90.0
13/08/2011 22:38:10.000'	-0.99	27.26	77.5	1022.32	10.92	89.9
13/08/2011 23:38:10.000'	-0.99	27.27	77.5	1022.32	10.92	89.9
14/08/2011 00:38:10.000'	-0.99	27.26	77.5	1022.32	10.91	89.8
14/08/2011 01:38:10.000'	-0.99	27.26	77.5	1022.32	10.90	89.8
14/08/2011 02:38:10.000'	-0.99	27.26	77.5	1022.32	10.90	89.8
14/08/2011 03:38:10.000'	-0.99	27.27	77.5	1022.32	10.90	89.8
14/08/2011 04:38:10.000'	-0.99	27.27	77.5	1022.32	10.91	89.8
14/08/2011 05:38:10.000'	-0.99	27.26	77.5	1022.32	10.91	89.8
14/08/2011 06:38:10.000'	-0.99	27.27	77.5	1022.32	10.91	89.9
14/08/2011 07:38:10.000'	-0.99	27.26	77.5	1022.32	10.90	89.8
14/08/2011 08:38:10.000'	-0.99	27.26	77.5	1022.32	10.90	89.8
14/08/2011 09:38:10.000'	-0.99	27.26	77.5	1022.32	10.90	89.7
14/08/2011 10:38:10.000'	-0.99	27.26	77.5	1022.32	10.90	89.7
14/08/2011 11:38:10.000'	-0.99	27.26	77.5	1022.32	10.91	89.8
14/08/2011 12:38:10.000'	-0.99	27.27	77.5	1022.32	10.90	89.8
14/08/2011 13:38:10.000'	-0.99	27.26	77.6	1022.32	10.92	89.9
14/08/2011 14:38:10.000'	-0.99	27.26	77.6	1022.32	10.92	89.9
14/08/2011 15:38:10.000'	-0.99	27.26	77.7	1022.32	10.92	89.9
14/08/2011 16:38:10.000'	-0.99	27.26	77.8	1022.32	10.92	89.9
14/08/2011 17:38:10.000'	-0.99	27.27	77.8	1022.32	10.91	89.8
14/08/2011 18:38:10.000'	-0.99	27.26	77.8	1022.32	10.92	89.9
14/08/2011 19:38:10.000'	-0.99	27.26	77.8	1022.32	10.90	89.8
14/08/2011 20:38:10.000'	-0.99	27.27	77.7	1022.32	10.91	89.9
14/08/2011 21:38:10.000'	-0.99	27.27	77.6	1022.32	10.91	89.8
14/08/2011 22:38:10.000'	-0.99	27.27	77.6	1022.32	10.90	89.8
14/08/2011 23:38:10.000'	-0.99	27.26	77.5	1022.32	10.90	89.8
15/08/2011 00:38:10.000'	-0.99	27.27	77.5	1022.32	10.90	89.8
15/08/2011 01:38:10.000'	-0.99	27.27	77.4	1022.32	10.90	89.8
15/08/2011 02:38:10.000'	-0.99	27.27	77.4	1022.32	10.91	89.8
15/08/2011 03:38:10.000'	-0.99	27.27	77.4	1022.32	10.92	89.9
15/08/2011 04:38:10.000'	-0.98	27.27	77.4	1022.32	10.92	90.0
15/08/2011 05:38:10.000'	-0.98	27.27	77.4	1022.32	10.92	89.9
15/08/2011 06:38:10.000'	-0.98	27.27	77.4	1022.32	10.92	90.0
15/08/2011 07:38:10.000'	-0.98	27.27	77.4	1022.32	10.92	89.9
15/08/2011 08:38:10.000'	-0.98	27.27	77.4	1022.32	10.93	90.0
15/08/2011 09:38:10.000'	-0.98	27.27	77.4	1022.32	10.92	89.9

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
15/08/2011 10:38:10.000'	-0.98	27.27	77.4	1022.32	10.91	89.9
15/08/2011 11:38:10.000'	-0.98	27.27	77.4	1022.32	10.91	89.9
15/08/2011 12:38:10.000'	-0.98	27.27	77.4	1022.32	10.91	89.9
15/08/2011 13:38:10.000'	-0.98	27.27	77.4	1022.32	10.91	89.9
15/08/2011 14:38:10.000'	-0.98	27.27	77.5	1022.32	10.91	89.9
15/08/2011 15:38:10.000'	-0.98	27.27	77.6	1022.32	10.92	90.0
15/08/2011 16:38:10.000'	-0.98	27.27	77.6	1022.32	10.92	90.0
15/08/2011 17:38:10.000'	-0.98	27.27	77.7	1022.32	10.93	90.1
15/08/2011 18:38:10.000'	-0.98	27.27	77.7	1022.32	10.93	90.0
15/08/2011 19:38:10.000'	-0.98	27.27	77.7	1022.32	10.93	90.0
15/08/2011 20:38:10.000'	-0.98	27.27	77.6	1022.32	10.91	89.9
15/08/2011 21:38:10.000'	-0.98	27.28	77.6	1022.33	10.88	89.7
15/08/2011 22:38:10.000'	-0.98	27.28	77.5	1022.32	10.89	89.7
15/08/2011 23:38:10.000'	-0.98	27.28	77.5	1022.32	10.90	89.8
16/08/2011 00:38:10.000'	-0.98	27.28	77.4	1022.32	10.91	89.8
16/08/2011 01:38:10.000'	-0.98	27.27	77.4	1022.32	10.91	89.8
16/08/2011 02:38:10.000'	-0.98	27.27	77.4	1022.32	10.91	89.8
16/08/2011 03:38:10.000'	-0.98	27.27	77.4	1022.32	10.91	89.9
16/08/2011 04:38:10.000'	-0.98	27.27	77.4	1022.32	10.91	89.8
16/08/2011 05:38:10.000'	-0.98	27.28	77.4	1022.32	10.92	90.0
16/08/2011 06:38:10.000'	-0.97	27.28	77.4	1022.33	10.93	90.0
16/08/2011 07:38:10.000'	-0.97	27.29	77.4	1022.33	10.96	90.3
16/08/2011 08:38:10.000'	-0.97	27.29	77.4	1022.33	10.97	90.4
16/08/2011 09:38:10.000'	-0.97	27.28	77.4	1022.33	10.96	90.3
16/08/2011 10:38:10.000'	-0.97	27.28	77.4	1022.33	10.97	90.4
16/08/2011 11:38:10.000'	-0.97	27.29	77.4	1022.33	10.96	90.3
16/08/2011 12:38:10.000'	-0.97	27.29	77.4	1022.33	10.95	90.2
16/08/2011 13:38:10.000'	-0.97	27.29	77.4	1022.33	10.96	90.3
16/08/2011 14:38:10.000'	-0.97	27.29	77.4	1022.34	10.95	90.3
16/08/2011 15:38:10.000'	-0.97	27.29	77.5	1022.34	10.95	90.2
16/08/2011 16:38:10.000'	-0.97	27.29	77.6	1022.33	10.94	90.1
16/08/2011 17:38:10.000'	-0.97	27.29	77.6	1022.34	10.94	90.2
16/08/2011 18:38:10.000'	-0.96	27.29	77.6	1022.34	10.93	90.1
16/08/2011 19:38:10.000'	-0.96	27.29	77.6	1022.34	10.94	90.2
16/08/2011 20:38:10.000'	-0.96	27.29	77.6	1022.34	10.94	90.2
16/08/2011 21:38:10.000'	-0.96	27.29	77.6	1022.34	10.94	90.2
16/08/2011 22:38:10.000'	-0.96	27.29	77.5	1022.34	10.94	90.2
16/08/2011 23:38:10.000'	-0.96	27.29	77.5	1022.34	10.95	90.2
17/08/2011 00:38:10.000'	-0.96	27.29	77.4	1022.34	10.95	90.2
17/08/2011 01:38:10.000'	-0.96	27.29	77.4	1022.34	10.95	90.3
17/08/2011 02:38:10.000'	-0.96	27.29	77.4	1022.34	10.95	90.2
17/08/2011 03:38:10.000'	-0.96	27.29	77.4	1022.34	10.95	90.3
17/08/2011 04:38:10.000'	-0.96	27.29	77.4	1022.34	10.95	90.3
17/08/2011 05:38:10.000'	-0.96	27.29	77.4	1022.34	10.94	90.2
17/08/2011 06:38:10.000'	-0.96	27.29	77.4	1022.34	10.95	90.3
17/08/2011 07:38:10.000'	-0.96	27.29	77.4	1022.34	10.95	90.3

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
17/08/2011 08:38:10.000'	-0.96	27.29	77.4	1022.34	10.95	90.3
17/08/2011 09:38:10.000'	-0.95	27.30	77.4	1022.34	10.95	90.3
17/08/2011 10:38:10.000'	-0.95	27.30	77.4	1022.34	10.95	90.3
17/08/2011 11:38:10.000'	-0.95	27.30	77.4	1022.34	10.95	90.3
17/08/2011 12:38:10.000'	-0.95	27.30	77.4	1022.34	10.96	90.3
17/08/2011 13:38:10.000'	-0.95	27.30	77.4	1022.34	10.96	90.4
17/08/2011 14:38:10.000'	-0.95	27.30	77.5	1022.34	10.96	90.3
17/08/2011 15:38:10.000'	-0.95	27.30	77.5	1022.34	10.97	90.4
17/08/2011 16:38:10.000'	-0.94	27.30	77.6	1022.35	10.99	90.6
17/08/2011 17:38:10.000'	-0.94	27.30	77.6	1022.35	11.00	90.7
17/08/2011 18:38:10.000'	-0.93	27.31	77.6	1022.35	11.00	90.8
17/08/2011 19:38:10.000'	-0.93	27.31	77.6	1022.35	11.02	90.9
17/08/2011 20:38:10.000'	-0.93	27.31	77.6	1022.35	11.02	90.9
17/08/2011 21:38:10.000'	-0.93	27.31	77.6	1022.35	11.02	90.9
17/08/2011 22:38:10.000'	-0.93	27.31	77.5	1022.35	11.02	90.9
17/08/2011 23:38:10.000'	-0.93	27.31	77.5	1022.35	11.02	90.9
18/08/2011 00:38:10.000'	-0.92	27.31	77.4	1022.35	11.03	91.0
18/08/2011 01:38:10.000'	-0.92	27.31	77.4	1022.35	11.02	90.9
18/08/2011 02:38:10.000'	-0.92	27.31	77.4	1022.35	11.04	91.1
18/08/2011 03:38:10.000'	-0.92	27.31	77.4	1022.35	11.02	91.0
18/08/2011 04:38:10.000'	-0.92	27.31	77.4	1022.35	11.02	91.0
18/08/2011 05:38:10.000'	-0.92	27.31	77.4	1022.36	11.00	90.8
18/08/2011 06:38:10.000'	-0.91	27.32	77.4	1022.36	11.00	90.8
18/08/2011 07:38:10.000'	-0.91	27.32	77.5	1022.36	11.01	90.9
18/08/2011 08:38:10.000'	-0.91	27.32	77.5	1022.36	11.01	90.9
18/08/2011 09:38:10.000'	-0.91	27.32	77.5	1022.36	11.01	91.0
18/08/2011 10:38:10.000'	-0.90	27.32	77.5	1022.36	11.02	91.0
18/08/2011 11:38:10.000'	-0.91	27.32	77.5	1022.36	11.04	91.2
18/08/2011 12:38:10.000'	-0.90	27.33	77.4	1022.37	11.04	91.1
18/08/2011 13:38:10.000'	-0.90	27.32	77.4	1022.36	11.03	91.1
18/08/2011 14:38:10.000'	-0.89	27.33	77.4	1022.37	11.03	91.1
18/08/2011 15:38:10.000'	-0.89	27.33	77.5	1022.37	11.04	91.2
18/08/2011 16:38:10.000'	-0.87	27.34	77.5	1022.37	11.06	91.4
18/08/2011 17:38:10.000'	-0.86	27.35	77.6	1022.38	11.09	91.7
18/08/2011 18:38:10.000'	-0.86	27.34	77.6	1022.38	11.08	91.6
18/08/2011 19:38:10.000'	-0.86	27.35	77.6	1022.38	11.08	91.6
18/08/2011 20:38:10.000'	-0.87	27.34	77.6	1022.38	11.06	91.5
18/08/2011 21:38:10.000'	-0.86	27.34	77.6	1022.38	11.07	91.5
18/08/2011 22:38:10.000'	-0.87	27.33	77.6	1022.37	11.06	91.4
18/08/2011 23:38:10.000'	-0.87	27.33	77.5	1022.37	11.04	91.2
19/08/2011 00:38:10.000'	-0.88	27.33	77.4	1022.37	11.05	91.3
19/08/2011 01:38:10.000'	-0.88	27.33	77.4	1022.37	11.04	91.3
19/08/2011 02:38:10.000'	-0.88	27.33	77.4	1022.37	11.03	91.2
19/08/2011 03:38:10.000'	-0.89	27.33	77.4	1022.36	11.03	91.1
19/08/2011 04:38:10.000'	-0.90	27.32	77.4	1022.36	11.03	91.1
19/08/2011 05:38:10.000'	-0.90	27.32	77.4	1022.36	11.03	91.1

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
19/08/2011 06:38:10.000'	-0.91	27.32	77.5	1022.36	11.01	90.9
19/08/2011 07:38:10.000'	-0.93	27.31	77.5	1022.35	10.99	90.6
19/08/2011 08:38:10.000'	-0.94	27.30	77.5	1022.35	10.97	90.5
19/08/2011 09:38:10.000'	-0.94	27.30	77.5	1022.35	10.97	90.5
19/08/2011 10:38:10.000'	-0.94	27.30	77.5	1022.35	10.95	90.3
19/08/2011 11:38:10.000'	-0.94	27.30	77.5	1022.35	10.96	90.4
19/08/2011 12:38:10.000'	-0.94	27.30	77.5	1022.35	10.94	90.2
19/08/2011 13:38:10.000'	-0.94	27.30	77.5	1022.35	10.94	90.2
19/08/2011 14:38:10.000'	-0.94	27.30	77.5	1022.35	10.94	90.2
19/08/2011 15:38:10.000'	-0.94	27.31	77.5	1022.35	10.94	90.2
19/08/2011 16:38:10.000'	-0.94	27.30	77.6	1022.35	10.94	90.2
19/08/2011 17:38:10.000'	-0.94	27.30	77.6	1022.35	10.94	90.2
19/08/2011 18:38:10.000'	-0.95	27.30	77.7	1022.34	10.93	90.1
19/08/2011 19:38:10.000'	-0.96	27.29	77.7	1022.34	10.87	89.6
19/08/2011 20:38:10.000'	-0.96	27.29	77.7	1022.34	10.87	89.6
19/08/2011 21:38:10.000'	-0.96	27.29	77.7	1022.34	10.87	89.6
19/08/2011 22:38:10.000'	-0.94	27.31	77.7	1022.35	10.93	90.2
19/08/2011 23:38:10.000'	-0.90	27.33	77.6	1022.37	10.99	90.8
20/08/2011 00:38:10.000'	-0.89	27.33	77.5	1022.37	11.01	91.0
20/08/2011 01:38:10.000'	-0.87	27.34	77.5	1022.38	11.03	91.2
20/08/2011 02:38:10.000'	-0.87	27.34	77.5	1022.38	11.03	91.2
20/08/2011 03:38:10.000'	-0.88	27.34	77.5	1022.38	11.03	91.2
20/08/2011 04:38:10.000'	-0.88	27.34	77.5	1022.37	11.02	91.1
20/08/2011 05:38:10.000'	-0.88	27.34	77.5	1022.37	11.03	91.2
20/08/2011 06:38:10.000'	-0.88	27.34	77.5	1022.38	11.02	91.1
20/08/2011 07:38:10.000'	-0.88	27.35	77.5	1022.38	11.04	91.3
20/08/2011 08:38:10.000'	-0.87	27.35	77.6	1022.38	11.05	91.3
20/08/2011 09:38:10.000'	-0.86	27.35	77.6	1022.38	11.05	91.4
20/08/2011 10:38:10.000'	-0.85	27.35	77.6	1022.39	11.06	91.4
20/08/2011 11:38:10.000'	-0.85	27.36	77.6	1022.39	11.06	91.5
20/08/2011 12:38:10.000'	-0.83	27.37	77.5	1022.40	11.08	91.7
20/08/2011 13:38:10.000'	-0.82	27.37	77.5	1022.40	11.08	91.8
20/08/2011 14:38:10.000'	-0.82	27.37	77.5	1022.40	11.09	91.8
20/08/2011 15:38:10.000'	-0.81	27.38	77.5	1022.41	11.10	91.9
20/08/2011 16:38:10.000'	-0.80	27.38	77.5	1022.41	11.11	92.0
20/08/2011 17:38:10.000'	-0.79	27.39	77.6	1022.41	11.12	92.1
20/08/2011 18:38:10.000'	-0.79	27.39	77.6	1022.41	11.13	92.3
20/08/2011 19:38:10.000'	-0.79	27.39	77.6	1022.41	11.13	92.3
20/08/2011 20:38:10.000'	-0.78	27.39	77.6	1022.42	11.14	92.3
20/08/2011 21:38:10.000'	-0.77	27.40	77.6	1022.42	11.14	92.4
20/08/2011 22:38:10.000'	-0.77	27.40	77.6	1022.42	11.14	92.3
20/08/2011 23:38:10.000'	-0.77	27.40	77.5	1022.42	11.15	92.5
21/08/2011 00:38:10.000'	-0.76	27.40	77.5	1022.42	11.15	92.5
21/08/2011 01:38:10.000'	-0.77	27.40	77.4	1022.42	11.15	92.5
21/08/2011 02:38:10.000'	-0.75	27.40	77.4	1022.42	11.18	92.7
21/08/2011 03:38:10.000'	-0.75	27.40	77.3	1022.42	11.18	92.7

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
21/08/2011 04:38:10.000'	-0.75	27.40	77.3	1022.42	11.17	92.7
21/08/2011 05:38:10.000'	-0.75	27.40	77.3	1022.42	11.18	92.8
21/08/2011 06:38:10.000'	-0.75	27.40	77.3	1022.42	11.17	92.7
21/08/2011 07:38:10.000'	-0.75	27.40	77.4	1022.42	11.18	92.8
21/08/2011 08:38:10.000'	-0.75	27.40	77.4	1022.42	11.17	92.7
21/08/2011 09:38:10.000'	-0.75	27.40	77.4	1022.42	11.16	92.6
21/08/2011 10:38:10.000'	-0.75	27.40	77.4	1022.42	11.16	92.6
21/08/2011 11:38:10.000'	-0.75	27.40	77.4	1022.42	11.15	92.5
21/08/2011 12:38:10.000'	-0.76	27.39	77.4	1022.42	11.14	92.4
21/08/2011 13:38:10.000'	-0.77	27.39	77.4	1022.42	11.15	92.5
21/08/2011 14:38:10.000'	-0.77	27.39	77.3	1022.42	11.15	92.5
21/08/2011 15:38:10.000'	-0.77	27.40	77.3	1022.42	11.15	92.5
21/08/2011 16:38:10.000'	-0.76	27.40	77.3	1022.42	11.15	92.5
21/08/2011 17:38:10.000'	-0.76	27.40	77.3	1022.42	11.15	92.5
21/08/2011 18:38:10.000'	-0.76	27.40	77.4	1022.42	11.16	92.5
21/08/2011 19:38:10.000'	-0.77	27.39	77.4	1022.42	11.15	92.5
21/08/2011 20:38:10.000'	-0.77	27.39	77.4	1022.42	11.14	92.4
21/08/2011 21:38:10.000'	-0.77	27.39	77.4	1022.42	11.14	92.4
21/08/2011 22:38:10.000'	-0.77	27.39	77.4	1022.41	11.14	92.4
21/08/2011 23:38:10.000'	-0.77	27.39	77.4	1022.42	11.14	92.4
22/08/2011 00:38:10.000'	-0.77	27.39	77.3	1022.41	11.14	92.4
22/08/2011 01:38:10.000'	-0.77	27.39	77.3	1022.41	11.14	92.4
22/08/2011 02:38:10.000'	-0.77	27.39	77.3	1022.41	11.15	92.5
22/08/2011 03:38:10.000'	-0.77	27.39	77.2	1022.42	11.14	92.4
22/08/2011 04:38:10.000'	-0.77	27.39	77.2	1022.41	11.15	92.5
22/08/2011 05:38:10.000'	-0.77	27.39	77.2	1022.41	11.14	92.4
22/08/2011 06:38:10.000'	-0.78	27.39	77.3	1022.41	11.15	92.4
22/08/2011 07:38:10.000'	-0.78	27.39	77.3	1022.41	11.14	92.3
22/08/2011 08:38:10.000'	-0.79	27.38	77.3	1022.41	11.13	92.2
22/08/2011 09:38:10.000'	-0.79	27.38	77.3	1022.41	11.13	92.2
22/08/2011 10:38:10.000'	-0.81	27.37	77.3	1022.40	11.09	91.9
22/08/2011 11:38:10.000'	-0.81	27.37	77.3	1022.40	11.08	91.7
22/08/2011 12:38:10.000'	-0.81	27.37	77.3	1022.39	11.07	91.6
22/08/2011 13:38:10.000'	-0.81	27.37	77.3	1022.39	11.07	91.7
22/08/2011 14:38:10.000'	-0.81	27.37	77.3	1022.39	11.07	91.7
22/08/2011 15:38:10.000'	-0.81	27.37	77.3	1022.39	11.07	91.7
22/08/2011 16:38:10.000'	-0.81	27.37	77.3	1022.40	11.08	91.8
22/08/2011 17:38:10.000'	-0.83	27.36	77.4	1022.39	11.08	91.7
22/08/2011 18:38:10.000'	-0.83	27.36	77.4	1022.39	11.08	91.7
22/08/2011 19:38:10.000'	-0.83	27.36	77.4	1022.39	11.08	91.7
22/08/2011 20:38:10.000'	-0.83	27.36	77.4	1022.39	11.08	91.7
22/08/2011 21:38:10.000'	-0.82	27.37	77.4	1022.40	11.09	91.8
22/08/2011 22:38:10.000'	-0.82	27.37	77.4	1022.40	11.09	91.9
22/08/2011 23:38:10.000'	-0.80	27.38	77.4	1022.41	11.11	92.0
23/08/2011 00:38:10.000'	-0.80	27.38	77.4	1022.40	11.10	92.0
23/08/2011 01:38:10.000'	-0.80	27.38	77.4	1022.40	11.10	91.9

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
23/08/2011 02:38:10.000'	-0.80	27.38	77.4	1022.40	11.08	91.8
23/08/2011 03:38:10.000'	-0.80	27.38	77.4	1022.40	11.09	91.9
23/08/2011 04:38:10.000'	-0.80	27.38	77.4	1022.40	11.10	92.0
23/08/2011 05:38:10.000'	-0.80	27.38	77.4	1022.41	11.09	91.9
23/08/2011 06:38:10.000'	-0.80	27.38	77.4	1022.41	11.09	91.9
23/08/2011 07:38:10.000'	-0.80	27.38	77.5	1022.41	11.06	91.7
23/08/2011 08:38:10.000'	-0.84	27.36	77.5	1022.39	11.04	91.3
23/08/2011 09:38:10.000'	-0.86	27.34	77.5	1022.38	11.03	91.2
23/08/2011 10:38:10.000'	-0.86	27.35	77.6	1022.38	11.02	91.1
23/08/2011 11:38:10.000'	-0.87	27.34	77.6	1022.38	11.00	91.0
23/08/2011 12:38:10.000'	-0.87	27.34	77.6	1022.38	11.00	90.9
23/08/2011 13:38:10.000'	-0.88	27.34	77.6	1022.37	10.96	90.6
23/08/2011 14:38:10.000'	-0.88	27.34	77.6	1022.37	10.93	90.3
23/08/2011 15:38:10.000'	-0.88	27.33	77.6	1022.37	10.94	90.4
23/08/2011 16:38:10.000'	-0.90	27.32	77.6	1022.36	10.92	90.2
23/08/2011 17:38:10.000'	-0.90	27.32	77.6	1022.36	10.89	89.9
23/08/2011 18:38:10.000'	-0.90	27.32	77.6	1022.36	10.90	90.0
23/08/2011 19:38:10.000'	-0.90	27.32	77.6	1022.36	10.90	90.0
23/08/2011 20:38:10.000'	-0.89	27.33	77.6	1022.37	10.92	90.2
23/08/2011 21:38:10.000'	-0.87	27.34	77.6	1022.38	10.95	90.5
23/08/2011 22:38:10.000'	-0.86	27.34	77.6	1022.38	10.98	90.8
23/08/2011 23:38:10.000'	-0.86	27.34	77.5	1022.38	10.97	90.7
24/08/2011 00:38:10.000'	-0.85	27.35	77.5	1022.38	10.97	90.7
24/08/2011 01:38:10.000'	-0.85	27.35	77.5	1022.38	10.99	90.9
24/08/2011 02:38:10.000'	-0.85	27.35	77.4	1022.38	10.98	90.8
24/08/2011 03:38:10.000'	-0.85	27.35	77.4	1022.38	10.99	90.9
24/08/2011 04:38:10.000'	-0.85	27.35	77.4	1022.38	10.98	90.8
24/08/2011 05:38:10.000'	-0.85	27.35	77.4	1022.38	11.00	91.0
24/08/2011 06:38:10.000'	-0.84	27.36	77.4	1022.39	11.01	91.1
24/08/2011 07:38:10.000'	-0.83	27.36	77.5	1022.39	11.01	91.1
24/08/2011 08:38:10.000'	-0.83	27.36	77.5	1022.39	11.01	91.1
24/08/2011 09:38:10.000'	-0.83	27.36	77.6	1022.39	11.01	91.1
24/08/2011 10:38:10.000'	-0.84	27.36	77.6	1022.39	11.00	91.0
24/08/2011 11:38:10.000'	-0.84	27.35	77.6	1022.39	10.98	90.8
24/08/2011 12:38:10.000'	-0.84	27.35	77.7	1022.39	10.97	90.7
24/08/2011 13:38:10.000'	-0.84	27.35	77.7	1022.39	10.97	90.7
24/08/2011 14:38:10.000'	-0.84	27.35	77.7	1022.39	10.97	90.7
24/08/2011 15:38:10.000'	-0.84	27.36	77.7	1022.39	10.97	90.7
24/08/2011 16:38:10.000'	-0.84	27.35	77.6	1022.39	10.97	90.7
24/08/2011 17:38:10.000'	-0.84	27.36	77.6	1022.39	10.99	91.0
24/08/2011 18:38:10.000'	-0.84	27.36	77.6	1022.39	10.99	91.0
24/08/2011 19:38:10.000'	-0.84	27.36	77.6	1022.39	11.01	91.1
24/08/2011 20:38:10.000'	-0.83	27.36	77.5	1022.39	11.01	91.1
24/08/2011 21:38:10.000'	-0.80	27.38	77.5	1022.41	11.03	91.4
24/08/2011 22:38:10.000'	-0.80	27.38	77.5	1022.41	11.03	91.4
24/08/2011 23:38:10.000'	-0.79	27.39	77.5	1022.41	11.04	91.5

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
25/08/2011 00:38:10.000'	-0.78	27.40	77.5	1022.42	11.04	91.5
25/08/2011 01:38:10.000'	-0.77	27.40	77.5	1022.42	11.05	91.7
25/08/2011 02:38:10.000'	-0.76	27.41	77.5	1022.43	11.04	91.6
25/08/2011 03:38:10.000'	-0.76	27.41	77.4	1022.43	11.04	91.6
25/08/2011 04:38:10.000'	-0.76	27.41	77.4	1022.43	11.03	91.5
25/08/2011 05:38:10.000'	-0.76	27.41	77.4	1022.43	11.04	91.6
25/08/2011 06:38:10.000'	-0.76	27.41	77.4	1022.43	11.04	91.6
25/08/2011 07:38:10.000'	-0.76	27.41	77.4	1022.43	11.04	91.6
25/08/2011 08:38:10.000'	-0.77	27.40	77.5	1022.42	11.05	91.6
25/08/2011 09:38:10.000'	-0.77	27.40	77.5	1022.42	11.05	91.6
25/08/2011 10:38:10.000'	-0.77	27.40	77.6	1022.42	11.05	91.6
25/08/2011 11:38:10.000'	-0.77	27.40	77.6	1022.42	11.05	91.6
25/08/2011 12:38:10.000'	-0.77	27.40	77.7	1022.42	11.04	91.6
25/08/2011 13:38:10.000'	-0.77	27.40	77.7	1022.42	11.05	91.6
25/08/2011 14:38:10.000'	-0.77	27.40	77.7	1022.42	11.04	91.6
25/08/2011 15:38:10.000'	-0.77	27.40	77.7	1022.42	11.04	91.6
25/08/2011 16:38:10.000'	-0.77	27.40	77.7	1022.43	11.04	91.5
25/08/2011 17:38:10.000'	-0.76	27.40	77.7	1022.43	11.04	91.5
25/08/2011 18:38:10.000'	-0.76	27.40	77.6	1022.43	11.04	91.6
25/08/2011 19:38:10.000'	-0.77	27.40	77.6	1022.42	11.03	91.5
25/08/2011 20:38:10.000'	-0.77	27.40	77.6	1022.42	11.06	91.7
25/08/2011 21:38:10.000'	-0.77	27.40	77.5	1022.42	11.05	91.7
25/08/2011 22:38:10.000'	-0.77	27.40	77.5	1022.42	11.05	91.7
25/08/2011 23:38:10.000'	-0.76	27.40	77.5	1022.42	11.06	91.7
26/08/2011 00:38:10.000'	-0.76	27.40	77.5	1022.42	11.05	91.6
26/08/2011 01:38:10.000'	-0.76	27.40	77.5	1022.42	11.05	91.6
26/08/2011 02:38:10.000'	-0.76	27.40	77.5	1022.42	11.04	91.6
26/08/2011 03:38:10.000'	-0.76	27.40	77.5	1022.42	11.04	91.6
26/08/2011 04:38:10.000'	-0.76	27.40	77.5	1022.42	11.03	91.5
26/08/2011 05:38:10.000'	-0.76	27.40	77.5	1022.42	11.04	91.6
26/08/2011 06:38:10.000'	-0.77	27.40	77.5	1022.42	11.06	91.7
26/08/2011 07:38:10.000'	-0.77	27.39	77.5	1022.42	11.06	91.7
26/08/2011 08:38:10.000'	-0.78	27.39	77.5	1022.42	11.06	91.7
26/08/2011 09:38:10.000'	-0.78	27.39	77.6	1022.41	11.05	91.6
26/08/2011 10:38:10.000'	-0.78	27.39	77.6	1022.41	11.05	91.6
26/08/2011 11:38:10.000'	-0.79	27.39	77.7	1022.41	11.05	91.6
26/08/2011 12:38:10.000'	-0.79	27.38	77.7	1022.41	11.04	91.5
26/08/2011 13:38:10.000'	-0.79	27.38	77.8	1022.41	11.04	91.5
26/08/2011 14:38:10.000'	-0.79	27.38	77.8	1022.41	11.03	91.4
26/08/2011 15:38:10.000'	-0.80	27.38	77.8	1022.41	11.03	91.4
26/08/2011 16:38:10.000'	-0.80	27.38	77.8	1022.41	11.02	91.3
26/08/2011 17:38:10.000'	-0.80	27.38	77.8	1022.41	11.03	91.4
26/08/2011 18:38:10.000'	-0.80	27.38	77.7	1022.41	11.03	91.4
26/08/2011 19:38:10.000'	-0.80	27.38	77.6	1022.41	11.00	91.2
26/08/2011 20:38:10.000'	-0.80	27.38	77.6	1022.41	11.01	91.2
26/08/2011 21:38:10.000'	-0.79	27.38	77.5	1022.41	11.00	91.1

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
26/08/2011 22:38:10.000'	-0.80	27.38	77.5	1022.41	10.98	91.0
26/08/2011 23:38:10.000'	-0.81	27.37	77.5	1022.40	11.00	91.1
27/08/2011 00:38:10.000'	-0.81	27.37	77.5	1022.40	11.00	91.1
27/08/2011 01:38:10.000'	-0.81	27.37	77.5	1022.40	11.01	91.2
27/08/2011 02:38:10.000'	-0.80	27.37	77.5	1022.40	11.00	91.2
27/08/2011 03:38:10.000'	-0.80	27.38	77.5	1022.41	11.00	91.1
27/08/2011 04:38:10.000'	-0.80	27.38	77.5	1022.41	11.00	91.2
27/08/2011 05:38:10.000'	-0.80	27.38	77.4	1022.41	11.00	91.1
27/08/2011 06:38:10.000'	-0.81	27.37	77.4	1022.40	10.99	91.0
27/08/2011 07:38:10.000'	-0.81	27.37	77.4	1022.40	10.98	90.9
27/08/2011 08:38:10.000'	-0.82	27.37	77.4	1022.40	10.98	90.9
27/08/2011 09:38:10.000'	-0.82	27.37	77.5	1022.40	10.95	90.7
27/08/2011 10:38:10.000'	-0.82	27.37	77.5	1022.40	10.95	90.7
27/08/2011 11:38:10.000'	-0.82	27.37	77.6	1022.40	10.95	90.7
27/08/2011 12:38:10.000'	-0.83	27.37	77.6	1022.40	10.95	90.7
27/08/2011 13:38:10.000'	-0.83	27.36	77.7	1022.39	10.94	90.6
27/08/2011 14:38:10.000'	-0.83	27.36	77.7	1022.39	10.93	90.5
27/08/2011 15:38:10.000'	-0.83	27.36	77.7	1022.39	10.92	90.4
27/08/2011 16:38:10.000'	-0.83	27.36	77.7	1022.39	10.93	90.5
27/08/2011 17:38:10.000'	-0.84	27.36	77.7	1022.39	10.93	90.4
27/08/2011 18:38:10.000'	-0.84	27.36	77.7	1022.39	10.93	90.5
27/08/2011 19:38:10.000'	-0.84	27.36	77.6	1022.39	10.93	90.4
27/08/2011 20:38:10.000'	-0.84	27.36	77.6	1022.39	10.93	90.5
27/08/2011 21:38:10.000'	-0.84	27.36	77.5	1022.39	10.92	90.4
27/08/2011 22:38:10.000'	-0.83	27.36	77.5	1022.39	10.93	90.5
27/08/2011 23:38:10.000'	-0.83	27.36	77.5	1022.39	10.94	90.6
28/08/2011 00:38:10.000'	-0.83	27.36	77.5	1022.39	10.94	90.6
28/08/2011 01:38:10.000'	-0.83	27.36	77.5	1022.39	10.93	90.5
28/08/2011 02:38:10.000'	-0.83	27.36	77.5	1022.39	10.92	90.4
28/08/2011 03:38:10.000'	-0.83	27.36	77.5	1022.39	10.91	90.3
28/08/2011 04:38:10.000'	-0.82	27.37	77.5	1022.40	10.92	90.4
28/08/2011 05:38:10.000'	-0.82	27.37	77.5	1022.40	10.92	90.4
28/08/2011 06:38:10.000'	-0.82	27.37	77.5	1022.39	10.91	90.3
28/08/2011 07:38:10.000'	-0.81	27.37	77.5	1022.40	10.92	90.4
28/08/2011 08:38:10.000'	-0.81	27.37	77.5	1022.40	10.92	90.4
28/08/2011 09:38:10.000'	-0.81	27.37	77.5	1022.40	10.90	90.3
28/08/2011 10:38:10.000'	-0.81	27.37	77.5	1022.40	10.87	90.0
28/08/2011 11:38:10.000'	-0.81	27.37	77.6	1022.40	10.88	90.1
28/08/2011 12:38:10.000'	-0.81	27.37	77.6	1022.40	10.88	90.1
28/08/2011 13:38:10.000'	-0.81	27.37	77.7	1022.40	10.89	90.2
28/08/2011 14:38:10.000'	-0.82	27.37	77.8	1022.40	10.89	90.2
28/08/2011 15:38:10.000'	-0.82	27.37	77.8	1022.40	10.88	90.1
28/08/2011 16:38:10.000'	-0.82	27.37	77.8	1022.40	10.90	90.3
28/08/2011 17:38:10.000'	-0.82	27.37	77.8	1022.40	10.90	90.2
28/08/2011 18:38:10.000'	-0.82	27.37	77.8	1022.40	10.91	90.3
28/08/2011 19:38:10.000'	-0.82	27.37	77.7	1022.40	10.92	90.4

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
28/08/2011 20:38:10.000'	-0.82	27.37	77.7	1022.40	10.91	90.3
28/08/2011 21:38:10.000'	-0.82	27.37	77.6	1022.40	10.91	90.3
28/08/2011 22:38:10.000'	-0.82	27.37	77.6	1022.39	10.91	90.3
28/08/2011 23:38:10.000'	-0.82	27.37	77.5	1022.40	10.90	90.3
29/08/2011 00:38:10.000'	-0.82	27.37	77.5	1022.40	10.89	90.2
29/08/2011 01:38:10.000'	-0.82	27.37	77.5	1022.40	10.90	90.3
29/08/2011 02:38:10.000'	-0.82	27.37	77.5	1022.40	10.91	90.3
29/08/2011 03:38:10.000'	-0.82	27.37	77.6	1022.40	10.90	90.3
29/08/2011 04:38:10.000'	-0.82	27.36	77.6	1022.39	10.90	90.3
29/08/2011 05:38:10.000'	-0.81	27.37	77.6	1022.40	10.90	90.3
29/08/2011 06:38:10.000'	-0.81	27.38	77.5	1022.40	10.89	90.2
29/08/2011 07:38:10.000'	-0.81	27.37	77.5	1022.40	10.89	90.2
29/08/2011 08:38:10.000'	-0.81	27.37	77.5	1022.40	10.89	90.2
29/08/2011 09:38:10.000'	-0.81	27.38	77.5	1022.40	10.89	90.2
29/08/2011 10:38:10.000'	-0.82	27.37	77.5	1022.40	10.90	90.2
29/08/2011 11:38:10.000'	-0.82	27.36	77.5	1022.39	10.90	90.2
29/08/2011 12:38:10.000'	-0.82	27.36	77.5	1022.39	10.91	90.3
29/08/2011 13:38:10.000'	-0.82	27.36	77.6	1022.39	10.91	90.3
29/08/2011 14:38:10.000'	-0.82	27.37	77.7	1022.40	10.89	90.2
29/08/2011 15:38:10.000'	-0.82	27.37	77.8	1022.40	10.90	90.2
29/08/2011 16:38:10.000'	-0.82	27.36	77.8	1022.40	10.90	90.2
29/08/2011 17:38:10.000'	-0.82	27.37	77.8	1022.40	10.91	90.3
29/08/2011 18:38:10.000'	-0.82	27.36	77.8	1022.40	10.91	90.3
29/08/2011 19:38:10.000'	-0.81	27.37	77.7	1022.40	10.91	90.4
29/08/2011 20:38:10.000'	-0.82	27.37	77.6	1022.40	10.91	90.3
29/08/2011 21:38:10.000'	-0.81	27.37	77.5	1022.40	10.91	90.3
29/08/2011 22:38:10.000'	-0.82	27.37	77.5	1022.40	10.90	90.3
29/08/2011 23:38:10.000'	-0.82	27.37	77.4	1022.40	10.91	90.3
30/08/2011 00:38:10.000'	-0.82	27.36	77.4	1022.39	10.92	90.4
30/08/2011 01:38:10.000'	-0.82	27.37	77.4	1022.39	10.91	90.4
30/08/2011 02:38:10.000'	-0.82	27.37	77.5	1022.40	10.91	90.3
30/08/2011 03:38:10.000'	-0.82	27.37	77.5	1022.40	10.91	90.3
30/08/2011 04:38:10.000'	-0.81	27.37	77.5	1022.40	10.89	90.2
30/08/2011 05:38:10.000'	-0.82	27.37	77.5	1022.40	10.88	90.1
30/08/2011 06:38:10.000'	-0.82	27.37	77.5	1022.40	10.88	90.1
30/08/2011 07:38:10.000'	-0.82	27.37	77.5	1022.40	10.88	90.1
30/08/2011 08:38:10.000'	-0.82	27.37	77.5	1022.40	10.86	89.9
30/08/2011 09:38:10.000'	-0.82	27.37	77.5	1022.40	10.87	90.0
30/08/2011 10:38:10.000'	-0.82	27.37	77.5	1022.40	10.86	90.0
30/08/2011 11:38:10.000'	-0.81	27.37	77.5	1022.40	10.91	90.4
30/08/2011 12:38:10.000'	-0.81	27.37	77.5	1022.40	10.91	90.4
30/08/2011 13:38:10.000'	-0.81	27.37	77.5	1022.40	10.93	90.5
30/08/2011 14:38:10.000'	-0.81	27.37	77.6	1022.40	10.92	90.5
30/08/2011 15:38:10.000'	-0.80	27.38	77.7	1022.40	10.93	90.6
30/08/2011 16:38:10.000'	-0.80	27.38	77.8	1022.41	10.92	90.5
30/08/2011 17:38:10.000'	-0.80	27.38	77.8	1022.41	10.92	90.5

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
30/08/2011 18:38:10.000'	-0.80	27.38	77.8	1022.41	10.92	90.5
30/08/2011 19:38:10.000'	-0.81	27.37	77.7	1022.40	10.91	90.3
30/08/2011 20:38:10.000'	-0.81	27.37	77.7	1022.40	10.91	90.4
30/08/2011 21:38:10.000'	-0.81	27.37	77.6	1022.40	10.91	90.4
30/08/2011 22:38:10.000'	-0.81	27.37	77.5	1022.40	10.91	90.4
30/08/2011 23:38:10.000'	-0.81	27.37	77.5	1022.40	10.91	90.3
31/08/2011 00:38:10.000'	-0.81	27.37	77.4	1022.40	10.91	90.3
31/08/2011 01:38:10.000'	-0.81	27.37	77.4	1022.40	10.89	90.2
31/08/2011 02:38:10.000'	-0.81	27.37	77.4	1022.40	10.89	90.2
31/08/2011 03:38:10.000'	-0.81	27.37	77.5	1022.40	10.89	90.2
31/08/2011 04:38:10.000'	-0.81	27.37	77.5	1022.40	10.90	90.2
31/08/2011 05:38:10.000'	-0.81	27.37	77.5	1022.40	10.90	90.3
31/08/2011 06:38:10.000'	-0.81	27.37	77.5	1022.40	10.89	90.2
31/08/2011 07:38:10.000'	-0.81	27.37	77.5	1022.40	10.91	90.3
31/08/2011 08:38:10.000'	-0.81	27.37	77.5	1022.40	10.88	90.1
31/08/2011 09:38:10.000'	-0.81	27.37	77.5	1022.40	10.90	90.2
31/08/2011 10:38:10.000'	-0.81	27.37	77.5	1022.40	10.90	90.2
31/08/2011 11:38:10.000'	-0.81	27.37	77.5	1022.40	10.90	90.3
31/08/2011 12:38:10.000'	-0.81	27.37	77.5	1022.40	10.91	90.3
31/08/2011 13:38:10.000'	-0.81	27.37	77.5	1022.40	10.91	90.3
31/08/2011 14:38:10.000'	-0.81	27.37	77.6	1022.40	10.90	90.3
31/08/2011 15:38:10.000'	-0.81	27.37	77.6	1022.40	10.90	90.3
31/08/2011 16:38:10.000'	-0.81	27.37	77.7	1022.40	10.90	90.3
31/08/2011 17:38:10.000'	-0.81	27.37	77.8	1022.40	10.90	90.3
31/08/2011 18:38:10.000'	-0.81	27.37	77.8	1022.40	10.90	90.3
31/08/2011 19:38:10.000'	-0.81	27.37	77.8	1022.40	10.90	90.3
31/08/2011 20:38:10.000'	-0.80	27.38	77.7	1022.40	10.92	90.4
31/08/2011 21:38:10.000'	-0.80	27.37	77.6	1022.40	10.92	90.4
31/08/2011 22:38:10.000'	-0.80	27.37	77.6	1022.40	10.92	90.4
31/08/2011 23:38:10.000'	-0.81	27.37	77.5	1022.40	10.92	90.4
01/09/2011 00:38:10.000'	-0.81	27.37	77.4	1022.40	10.91	90.4
01/09/2011 01:38:10.000'	-0.81	27.37	77.4	1022.40	10.91	90.4
01/09/2011 02:38:10.000'	-0.81	27.37	77.4	1022.40	10.90	90.3
01/09/2011 03:38:10.000'	-0.81	27.37	77.4	1022.40	10.94	90.6
01/09/2011 04:38:10.000'	-0.80	27.38	77.5	1022.40	10.94	90.7
01/09/2011 05:38:10.000'	-0.80	27.38	77.5	1022.40	10.95	90.7
01/09/2011 06:38:10.000'	-0.80	27.38	77.5	1022.40	10.95	90.8
01/09/2011 07:38:10.000'	-0.79	27.38	77.5	1022.40	10.95	90.8
01/09/2011 08:38:10.000'	-0.80	27.37	77.5	1022.40	10.95	90.7
01/09/2011 09:38:10.000'	-0.81	27.37	77.5	1022.40	10.95	90.7
01/09/2011 10:38:10.000'	-0.81	27.37	77.5	1022.40	10.93	90.5
01/09/2011 11:38:10.000'	-0.81	27.37	77.4	1022.40	10.93	90.5
01/09/2011 12:38:10.000'	-0.81	27.37	77.4	1022.40	10.91	90.4
01/09/2011 13:38:10.000'	-0.81	27.37	77.4	1022.40	10.91	90.4
01/09/2011 14:38:10.000'	-0.80	27.37	77.4	1022.40	10.91	90.4
01/09/2011 15:38:10.000'	-0.80	27.38	77.5	1022.40	10.93	90.5

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
01/09/2011 16:38:10.000'	-0.80	27.37	77.6	1022.40	10.93	90.5
01/09/2011 17:38:10.000'	-0.81	27.37	77.6	1022.40	10.91	90.4
01/09/2011 18:38:10.000'	-0.81	27.37	77.7	1022.40	10.92	90.5
01/09/2011 19:38:10.000'	-0.81	27.37	77.7	1022.40	10.91	90.3
01/09/2011 20:38:10.000'	-0.81	27.37	77.7	1022.40	10.91	90.3
01/09/2011 21:38:10.000'	-0.80	27.37	77.6	1022.40	10.90	90.3
01/09/2011 22:38:10.000'	-0.80	27.37	77.6	1022.40	10.90	90.3
01/09/2011 23:38:10.000'	-0.80	27.37	77.5	1022.40	10.90	90.3
02/09/2011 00:38:10.000'	-0.80	27.37	77.4	1022.40	10.90	90.3
02/09/2011 01:38:10.000'	-0.81	27.37	77.4	1022.40	10.90	90.3
02/09/2011 02:38:10.000'	-0.81	27.37	77.4	1022.40	10.90	90.3
02/09/2011 03:38:10.000'	-0.81	27.37	77.4	1022.40	10.91	90.4
02/09/2011 04:38:10.000'	-0.80	27.37	77.4	1022.40	10.92	90.4
02/09/2011 05:38:10.000'	-0.80	27.37	77.5	1022.40	10.91	90.4
02/09/2011 06:38:10.000'	-0.80	27.37	77.5	1022.40	10.90	90.3
02/09/2011 07:38:10.000'	-0.80	27.38	77.5	1022.40	10.91	90.4
02/09/2011 08:38:10.000'	-0.80	27.37	77.5	1022.40	10.91	90.4
02/09/2011 09:38:10.000'	-0.80	27.37	77.5	1022.40	10.92	90.5
02/09/2011 10:38:10.000'	-0.80	27.37	77.5	1022.40	10.93	90.6
02/09/2011 11:38:10.000'	-0.79	27.37	77.5	1022.40	10.92	90.5
02/09/2011 12:38:10.000'	-0.79	27.37	77.4	1022.40	10.91	90.4
02/09/2011 13:38:10.000'	-0.79	27.38	77.4	1022.40	10.91	90.4
02/09/2011 14:38:10.000'	-0.79	27.38	77.4	1022.40	10.90	90.4
02/09/2011 15:38:10.000'	-0.79	27.38	77.5	1022.40	10.94	90.6
02/09/2011 16:38:10.000'	-0.79	27.38	77.5	1022.41	10.92	90.5
02/09/2011 17:38:10.000'	-0.79	27.38	77.6	1022.40	10.93	90.6
02/09/2011 18:38:10.000'	-0.78	27.38	77.6	1022.40	10.92	90.5
02/09/2011 19:38:10.000'	-0.78	27.38	77.6	1022.40	10.91	90.4
02/09/2011 20:38:10.000'	-0.78	27.38	77.6	1022.40	10.92	90.5
02/09/2011 21:38:10.000'	-0.78	27.38	77.6	1022.40	10.93	90.6
02/09/2011 22:38:10.000'	-0.78	27.38	77.6	1022.41	10.93	90.6
02/09/2011 23:38:10.000'	-0.78	27.38	77.5	1022.41	10.93	90.6
03/09/2011 00:38:10.000'	-0.77	27.38	77.4	1022.41	10.93	90.6
03/09/2011 01:38:10.000'	-0.75	27.39	77.4	1022.41	10.95	90.8
03/09/2011 02:38:10.000'	-0.75	27.39	77.4	1022.41	10.96	91.0
03/09/2011 03:38:10.000'	-0.75	27.39	77.4	1022.41	10.99	91.2
03/09/2011 04:38:10.000'	-0.75	27.39	77.4	1022.41	10.97	91.0
03/09/2011 05:38:10.000'	-0.76	27.39	77.4	1022.41	10.97	91.0
03/09/2011 06:38:10.000'	-0.76	27.39	77.5	1022.41	10.97	91.0
03/09/2011 07:38:10.000'	-0.76	27.38	77.5	1022.41	10.97	91.0
03/09/2011 08:38:10.000'	-0.75	27.39	77.5	1022.41	10.97	91.0
03/09/2011 09:38:10.000'	-0.75	27.39	77.5	1022.41	10.98	91.1
03/09/2011 10:38:10.000'	-0.75	27.39	77.5	1022.41	10.99	91.2
03/09/2011 11:38:10.000'	-0.75	27.39	77.5	1022.41	10.98	91.1
03/09/2011 12:38:10.000'	-0.76	27.39	77.5	1022.41	10.99	91.2
03/09/2011 13:38:10.000'	-0.77	27.38	77.4	1022.41	10.87	90.1

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
03/09/2011 14:38:10.000'	-0.78	27.39	77.4	1022.41	10.86	90.0
03/09/2011 15:38:10.000'	-0.78	27.39	77.4	1022.41	10.86	90.0
03/09/2011 16:38:10.000'	-0.78	27.38	77.5	1022.41	10.86	90.0
03/09/2011 17:38:10.000'	-0.78	27.39	77.5	1022.41	10.87	90.1
03/09/2011 18:38:10.000'	-0.78	27.38	77.6	1022.41	10.90	90.3
03/09/2011 19:38:10.000'	-0.78	27.38	77.6	1022.41	10.90	90.3
03/09/2011 20:38:10.000'	-0.79	27.38	77.6	1022.41	10.90	90.3
03/09/2011 21:38:10.000'	-0.79	27.38	77.6	1022.41	10.89	90.2
03/09/2011 22:38:10.000'	-0.79	27.38	77.5	1022.41	10.88	90.2
03/09/2011 23:38:10.000'	-0.78	27.39	77.5	1022.41	10.88	90.2
04/09/2011 00:38:10.000'	-0.78	27.39	77.4	1022.41	10.88	90.2
04/09/2011 01:38:10.000'	-0.78	27.38	77.3	1022.41	10.88	90.2
04/09/2011 02:38:10.000'	-0.76	27.39	77.3	1022.41	10.89	90.3
04/09/2011 03:38:10.000'	-0.76	27.39	77.3	1022.41	10.98	91.1
04/09/2011 04:38:10.000'	-0.75	27.39	77.3	1022.41	10.96	91.0
04/09/2011 05:38:10.000'	-0.75	27.39	77.4	1022.41	10.99	91.1
04/09/2011 06:38:10.000'	-0.75	27.39	77.4	1022.41	10.98	91.1
04/09/2011 07:38:10.000'	-0.75	27.39	77.5	1022.41	10.96	91.0
04/09/2011 08:38:10.000'	-0.74	27.39	77.5	1022.42	10.95	90.9
04/09/2011 09:38:10.000'	-0.74	27.39	77.5	1022.42	10.95	90.9
04/09/2011 10:38:10.000'	-0.74	27.39	77.5	1022.42	10.94	90.8
04/09/2011 11:38:10.000'	-0.74	27.40	77.5	1022.42	10.94	90.8
04/09/2011 12:38:10.000'	-0.74	27.40	77.5	1022.42	10.94	90.8
04/09/2011 13:38:10.000'	-0.74	27.40	77.5	1022.42	10.94	90.8
04/09/2011 14:38:10.000'	-0.74	27.40	77.4	1022.42	10.94	90.8
04/09/2011 15:38:10.000'	-0.75	27.39	77.4	1022.41	10.95	90.8
04/09/2011 16:38:10.000'	-0.75	27.39	77.4	1022.42	10.95	90.9
04/09/2011 17:38:10.000'	-0.75	27.39	77.4	1022.42	10.95	90.8
04/09/2011 18:38:10.000'	-0.74	27.39	77.4	1022.42	10.95	90.9
04/09/2011 19:38:10.000'	-0.73	27.40	77.5	1022.42	10.94	90.8
04/09/2011 20:38:10.000'	-0.74	27.39	77.5	1022.42	10.94	90.8
04/09/2011 21:38:10.000'	-0.73	27.40	77.5	1022.42	10.94	90.8
04/09/2011 22:38:10.000'	-0.73	27.40	77.5	1022.42	10.95	90.9
04/09/2011 23:38:10.000'	-0.73	27.40	77.4	1022.42	10.95	90.9
05/09/2011 00:38:10.000'	-0.73	27.40	77.4	1022.42	10.96	91.0
05/09/2011 01:38:10.000'	-0.73	27.40	77.3	1022.42	10.95	90.9
05/09/2011 02:38:10.000'	-0.73	27.40	77.3	1022.42	10.95	90.9
05/09/2011 03:38:10.000'	-0.73	27.40	77.3	1022.42	10.95	90.9
05/09/2011 04:38:10.000'	-0.73	27.40	77.3	1022.42	10.96	91.0
05/09/2011 05:38:10.000'	-0.73	27.40	77.3	1022.42	10.96	91.0
05/09/2011 06:38:10.000'	-0.73	27.41	77.3	1022.42	10.96	91.0
05/09/2011 07:38:10.000'	-0.73	27.40	77.4	1022.42	10.96	91.0
05/09/2011 08:38:10.000'	-0.73	27.40	77.5	1022.42	10.92	90.6
05/09/2011 09:38:10.000'	-0.73	27.40	77.5	1022.42	10.92	90.6
05/09/2011 10:38:10.000'	-0.74	27.40	77.6	1022.42	10.92	90.6
05/09/2011 11:38:10.000'	-0.74	27.40	77.6	1022.42	10.92	90.6

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
05/09/2011 12:38:10.000'	-0.75	27.39	77.6	1022.42	10.90	90.4
05/09/2011 13:38:10.000'	-0.78	27.38	77.6	1022.41	10.85	90.0
05/09/2011 14:38:10.000'	-0.79	27.38	77.5	1022.41	10.85	89.9
05/09/2011 15:38:10.000'	-0.79	27.38	77.5	1022.41	10.85	89.9
05/09/2011 16:38:10.000'	-0.79	27.38	77.5	1022.41	10.85	89.9
05/09/2011 17:38:10.000'	-0.79	27.37	77.5	1022.40	10.85	89.9
05/09/2011 18:38:10.000'	-0.79	27.38	77.5	1022.40	10.83	89.7
05/09/2011 19:38:10.000'	-0.79	27.38	77.5	1022.40	10.85	89.9
05/09/2011 20:38:10.000'	-0.79	27.38	77.5	1022.41	10.85	89.9
05/09/2011 21:38:10.000'	-0.79	27.38	77.5	1022.40	10.83	89.7
05/09/2011 22:38:10.000'	-0.80	27.38	77.5	1022.40	10.83	89.7
05/09/2011 23:38:10.000'	-0.80	27.38	77.5	1022.40	10.83	89.7
06/09/2011 00:38:10.000'	-0.80	27.38	77.5	1022.41	10.83	89.7
06/09/2011 01:38:10.000'	-0.80	27.38	77.5	1022.41	10.83	89.8
06/09/2011 02:38:10.000'	-0.77	27.39	77.4	1022.41	10.83	89.8
06/09/2011 03:38:10.000'	-0.75	27.39	77.4	1022.42	10.88	90.3
06/09/2011 04:38:10.000'	-0.75	27.39	77.4	1022.42	10.88	90.3
06/09/2011 05:38:10.000'	-0.75	27.40	77.4	1022.42	10.90	90.4
06/09/2011 06:38:10.000'	-0.75	27.40	77.4	1022.42	10.90	90.4
06/09/2011 07:38:10.000'	-0.74	27.39	77.5	1022.42	10.89	90.4
06/09/2011 08:38:10.000'	-0.74	27.40	77.5	1022.42	10.90	90.5
06/09/2011 09:38:10.000'	-0.74	27.40	77.6	1022.42	10.91	90.5
06/09/2011 10:38:10.000'	-0.74	27.40	77.6	1022.42	10.91	90.5
06/09/2011 11:38:10.000'	-0.74	27.40	77.6	1022.42	10.91	90.5
06/09/2011 12:38:10.000'	-0.74	27.40	77.6	1022.42	10.91	90.6
06/09/2011 13:38:10.000'	-0.74	27.40	77.6	1022.42	10.91	90.5
06/09/2011 14:38:10.000'	-0.72	27.40	77.6	1022.43	10.91	90.6
06/09/2011 15:38:10.000'	-0.72	27.41	77.6	1022.43	10.91	90.6
06/09/2011 16:38:10.000'	-0.72	27.41	77.5	1022.43	10.91	90.6
06/09/2011 17:38:10.000'	-0.72	27.41	77.5	1022.43	10.91	90.6
06/09/2011 18:38:10.000'	-0.72	27.41	77.4	1022.43	10.91	90.6
06/09/2011 19:38:10.000'	-0.72	27.41	77.4	1022.43	10.91	90.6
06/09/2011 20:38:10.000'	-0.72	27.40	77.4	1022.42	10.92	90.7
06/09/2011 21:38:10.000'	-0.72	27.40	77.4	1022.42	10.92	90.7
06/09/2011 22:38:10.000'	-0.72	27.40	77.4	1022.42	10.92	90.7
06/09/2011 23:38:10.000'	-0.72	27.40	77.3	1022.42	10.93	90.8
07/09/2011 00:38:10.000'	-0.72	27.40	77.3	1022.42	10.92	90.7
07/09/2011 01:38:10.000'	-0.72	27.40	77.3	1022.42	10.93	90.8
07/09/2011 02:38:10.000'	-0.71	27.41	77.3	1022.43	10.91	90.7
07/09/2011 03:38:10.000'	-0.70	27.42	77.3	1022.43	10.91	90.7
07/09/2011 04:38:10.000'	-0.70	27.42	77.2	1022.43	10.91	90.7
07/09/2011 05:38:10.000'	-0.70	27.42	77.2	1022.43	10.91	90.7
07/09/2011 06:38:10.000'	-0.71	27.41	77.2	1022.43	10.91	90.7
07/09/2011 07:38:10.000'	-0.71	27.41	77.3	1022.43	10.91	90.7
07/09/2011 08:38:10.000'	-0.72	27.41	77.3	1022.42	10.91	90.6
07/09/2011 09:38:10.000'	-0.72	27.40	77.3	1022.42	10.91	90.6

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
07/09/2011 10:38:10.000'	-0.72	27.41	77.4	1022.42	10.92	90.7
07/09/2011 11:38:10.000'	-0.71	27.41	77.5	1022.43	10.91	90.6
07/09/2011 12:38:10.000'	-0.71	27.41	77.5	1022.43	10.92	90.7
07/09/2011 13:38:10.000'	-0.71	27.41	77.5	1022.43	10.92	90.7
07/09/2011 14:38:10.000'	-0.71	27.41	77.6	1022.43	10.93	90.8
07/09/2011 15:38:10.000'	-0.72	27.41	77.6	1022.43	10.91	90.6
07/09/2011 16:38:10.000'	-0.73	27.40	77.6	1022.42	10.91	90.6
07/09/2011 17:38:10.000'	-0.75	27.39	77.6	1022.42	10.90	90.5
07/09/2011 18:38:10.000'	-0.76	27.39	77.5	1022.41	10.87	90.2
07/09/2011 19:38:10.000'	-0.83	27.36	77.5	1022.39	10.85	89.8
07/09/2011 20:38:10.000'	-0.83	27.36	77.5	1022.39	10.83	89.7
07/09/2011 21:38:10.000'	-0.83	27.36	77.5	1022.39	10.83	89.7
07/09/2011 22:38:10.000'	-0.83	27.36	77.5	1022.39	10.79	89.3
07/09/2011 23:38:10.000'	-0.83	27.36	77.4	1022.39	10.76	89.1
08/09/2011 00:38:10.000'	-0.84	27.35	77.4	1022.38	10.76	89.0
08/09/2011 01:38:10.000'	-0.85	27.34	77.4	1022.38	10.72	88.7
08/09/2011 02:38:10.000'	-0.85	27.34	77.4	1022.38	10.76	89.0
08/09/2011 03:38:10.000'	-0.85	27.34	77.4	1022.38	10.80	89.3
08/09/2011 04:38:10.000'	-0.81	27.35	77.5	1022.38	10.81	89.5
08/09/2011 05:38:10.000'	-0.80	27.35	77.5	1022.39	10.81	89.6
08/09/2011 06:38:10.000'	-0.80	27.36	77.5	1022.39	10.83	89.7
08/09/2011 07:38:10.000'	-0.80	27.37	77.5	1022.40	10.83	89.8
08/09/2011 08:38:10.000'	-0.80	27.37	77.6	1022.40	10.86	90.0
08/09/2011 09:38:10.000'	-0.77	27.38	77.6	1022.41	10.89	90.3
08/09/2011 10:38:10.000'	-0.77	27.39	77.6	1022.41	10.91	90.5
08/09/2011 11:38:10.000'	-0.73	27.40	77.7	1022.42	10.93	90.7
08/09/2011 12:38:10.000'	-0.73	27.41	77.7	1022.43	10.93	90.8
08/09/2011 13:38:10.000'	-0.72	27.41	77.7	1022.43	10.94	90.9
08/09/2011 14:38:10.000'	-0.71	27.41	77.7	1022.43	10.94	90.9
08/09/2011 15:38:10.000'	-0.71	27.41	77.7	1022.43	10.94	90.9
08/09/2011 16:38:10.000'	-0.71	27.41	77.7	1022.43	10.95	91.0
08/09/2011 17:38:10.000'	-0.70	27.42	77.6	1022.43	10.95	91.0
08/09/2011 18:38:10.000'	-0.68	27.42	77.6	1022.44	10.97	91.2
08/09/2011 19:38:10.000'	-0.64	27.45	77.5	1022.46	11.00	91.6
08/09/2011 20:38:10.000'	-0.63	27.44	77.5	1022.45	11.00	91.6
08/09/2011 21:38:10.000'	-0.63	27.45	77.5	1022.46	11.01	91.7
08/09/2011 22:38:10.000'	-0.62	27.45	77.4	1022.46	11.01	91.7
08/09/2011 23:38:10.000'	-0.62	27.45	77.4	1022.46	11.04	92.0
09/09/2011 00:38:10.000'	-0.62	27.45	77.4	1022.46	11.05	92.1
09/09/2011 01:38:10.000'	-0.62	27.44	77.3	1022.45	11.04	92.0
09/09/2011 02:38:10.000'	-0.64	27.44	77.3	1022.45	11.01	91.6
09/09/2011 03:38:10.000'	-0.65	27.43	77.3	1022.44	10.98	91.3
09/09/2011 04:38:10.000'	-0.66	27.43	77.3	1022.45	10.98	91.3
09/09/2011 05:38:10.000'	-0.65	27.43	77.3	1022.45	10.98	91.3
09/09/2011 06:38:10.000'	-0.65	27.43	77.3	1022.45	10.98	91.3
09/09/2011 07:38:10.000'	-0.65	27.43	77.3	1022.45	10.98	91.4

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
09/09/2011 08:38:10.000'	-0.65	27.43	77.3	1022.45	10.98	91.4
09/09/2011 09:38:10.000'	-0.65	27.44	77.4	1022.45	10.98	91.4
09/09/2011 10:38:10.000'	-0.64	27.44	77.4	1022.45	11.01	91.6
09/09/2011 11:38:10.000'	-0.64	27.44	77.5	1022.45	11.00	91.6
09/09/2011 12:38:10.000'	-0.64	27.44	77.5	1022.45	11.00	91.6
09/09/2011 13:38:10.000'	-0.66	27.43	77.5	1022.45	10.96	91.2
09/09/2011 14:38:10.000'	-0.66	27.43	77.6	1022.44	10.93	90.9
09/09/2011 15:38:10.000'	-0.69	27.42	77.6	1022.43	10.92	90.8
09/09/2011 16:38:10.000'	-0.72	27.40	77.6	1022.42	10.91	90.6
09/09/2011 17:38:10.000'	-0.74	27.39	77.5	1022.41	10.91	90.6
09/09/2011 18:38:10.000'	-0.74	27.39	77.5	1022.41	10.91	90.5
09/09/2011 19:38:10.000'	-0.75	27.39	77.4	1022.41	10.91	90.5
09/09/2011 20:38:10.000'	-0.75	27.38	77.3	1022.41	10.91	90.5
09/09/2011 21:38:10.000'	-0.75	27.38	77.3	1022.41	10.87	90.2
09/09/2011 22:38:10.000'	-0.77	27.37	77.3	1022.40	10.88	90.2
09/09/2011 23:38:10.000'	-0.77	27.37	77.3	1022.40	10.87	90.1
10/09/2011 00:38:10.000'	-0.77	27.37	77.3	1022.40	10.86	90.1
10/09/2011 01:38:10.000'	-0.77	27.37	77.3	1022.40	10.87	90.2
10/09/2011 02:38:10.000'	-0.76	27.37	77.3	1022.40	10.87	90.1
10/09/2011 03:38:10.000'	-0.76	27.38	77.3	1022.40	10.87	90.2
10/09/2011 04:38:10.000'	-0.76	27.38	77.3	1022.40	10.87	90.2
10/09/2011 05:38:10.000'	-0.75	27.38	77.3	1022.41	10.90	90.4
10/09/2011 06:38:10.000'	-0.72	27.39	77.3	1022.42	10.90	90.5
10/09/2011 07:38:10.000'	-0.71	27.40	77.3	1022.42	10.94	90.9
10/09/2011 08:38:10.000'	-0.71	27.40	77.3	1022.42	10.94	90.9
10/09/2011 09:38:10.000'	-0.71	27.39	77.4	1022.42	10.94	90.9
10/09/2011 10:38:10.000'	-0.71	27.39	77.4	1022.42	10.92	90.7
10/09/2011 11:38:10.000'	-0.71	27.40	77.4	1022.42	10.92	90.7
10/09/2011 12:38:10.000'	-0.71	27.40	77.5	1022.42	10.92	90.7
10/09/2011 13:38:10.000'	-0.71	27.40	77.6	1022.42	10.91	90.6
10/09/2011 14:38:10.000'	-0.71	27.40	77.7	1022.42	10.91	90.6
10/09/2011 15:38:10.000'	-0.71	27.40	77.7	1022.42	10.91	90.6
10/09/2011 16:38:10.000'	-0.71	27.40	77.7	1022.42	10.91	90.6
10/09/2011 17:38:10.000'	-0.72	27.39	77.7	1022.42	10.91	90.6
10/09/2011 18:38:10.000'	-0.73	27.38	77.7	1022.41	10.88	90.3
10/09/2011 19:38:10.000'	-0.73	27.38	77.7	1022.41	10.88	90.3
10/09/2011 20:38:10.000'	-0.73	27.38	77.6	1022.41	10.87	90.2
10/09/2011 21:38:10.000'	-0.71	27.40	77.5	1022.42	10.88	90.4
10/09/2011 22:38:10.000'	-0.71	27.40	77.5	1022.42	10.88	90.4
10/09/2011 23:38:10.000'	-0.70	27.40	77.5	1022.42	10.88	90.4
11/09/2011 00:38:10.000'	-0.70	27.40	77.5	1022.42	10.88	90.4
11/09/2011 01:38:10.000'	-0.70	27.41	77.4	1022.43	10.88	90.4
11/09/2011 02:38:10.000'	-0.69	27.41	77.4	1022.43	10.91	90.7
11/09/2011 03:38:10.000'	-0.70	27.41	77.4	1022.43	10.91	90.7
11/09/2011 04:38:10.000'	-0.70	27.41	77.4	1022.42	10.90	90.6
11/09/2011 05:38:10.000'	-0.70	27.40	77.4	1022.42	10.91	90.6

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
11/09/2011 06:38:10.000'	-0.70	27.40	77.4	1022.42	10.90	90.6
11/09/2011 07:38:10.000'	-0.70	27.40	77.4	1022.42	10.90	90.5
11/09/2011 08:38:10.000'	-0.70	27.40	77.4	1022.42	10.89	90.5
11/09/2011 09:38:10.000'	-0.70	27.41	77.4	1022.43	10.90	90.6
11/09/2011 10:38:10.000'	-0.70	27.41	77.4	1022.43	10.91	90.7
11/09/2011 11:38:10.000'	-0.70	27.41	77.5	1022.43	10.91	90.7
11/09/2011 12:38:10.000'	-0.70	27.41	77.5	1022.43	10.90	90.6
11/09/2011 13:38:10.000'	-0.70	27.41	77.6	1022.43	10.90	90.6
11/09/2011 14:38:10.000'	-0.69	27.41	77.7	1022.43	10.90	90.6
11/09/2011 15:38:10.000'	-0.69	27.41	77.8	1022.43	10.90	90.6
11/09/2011 16:38:10.000'	-0.68	27.42	77.8	1022.43	10.92	90.8
11/09/2011 17:38:10.000'	-0.68	27.42	77.8	1022.43	10.92	90.8
11/09/2011 18:38:10.000'	-0.68	27.42	77.8	1022.43	10.92	90.8
11/09/2011 19:38:10.000'	-0.69	27.41	77.8	1022.43	10.92	90.8
11/09/2011 20:38:10.000'	-0.69	27.41	77.8	1022.43	10.89	90.5
11/09/2011 21:38:10.000'	-0.70	27.40	77.7	1022.42	10.89	90.5
11/09/2011 22:38:10.000'	-0.70	27.40	77.6	1022.42	10.89	90.5
11/09/2011 23:38:10.000'	-0.70	27.40	77.6	1022.42	10.89	90.4
12/09/2011 00:38:10.000'	-0.70	27.41	77.6	1022.43	10.89	90.5
12/09/2011 01:38:10.000'	-0.70	27.41	77.6	1022.42	10.89	90.4
12/09/2011 02:38:10.000'	-0.70	27.41	77.6	1022.43	10.89	90.4
12/09/2011 03:38:10.000'	-0.70	27.41	77.6	1022.43	10.89	90.5
12/09/2011 04:38:10.000'	-0.70	27.41	77.6	1022.43	10.88	90.4
12/09/2011 05:38:10.000'	-0.70	27.41	77.6	1022.43	10.89	90.5
12/09/2011 06:38:10.000'	-0.69	27.41	77.6	1022.43	10.89	90.5
12/09/2011 07:38:10.000'	-0.69	27.41	77.6	1022.43	10.89	90.5
12/09/2011 08:38:10.000'	-0.69	27.41	77.6	1022.43	10.89	90.5
12/09/2011 09:38:10.000'	-0.69	27.41	77.6	1022.43	10.89	90.5
12/09/2011 10:38:10.000'	-0.69	27.41	77.6	1022.43	10.88	90.5
12/09/2011 11:38:10.000'	-0.69	27.41	77.6	1022.43	10.87	90.4
12/09/2011 12:38:10.000'	-0.69	27.41	77.6	1022.43	10.87	90.3
12/09/2011 13:38:10.000'	-0.69	27.41	77.7	1022.43	10.87	90.3
12/09/2011 14:38:10.000'	-0.69	27.41	77.7	1022.43	10.88	90.4
12/09/2011 15:38:10.000'	-0.69	27.41	77.8	1022.43	10.85	90.2
12/09/2011 16:38:10.000'	-0.69	27.41	77.8	1022.43	10.87	90.3
12/09/2011 17:38:10.000'	-0.71	27.40	77.8	1022.43	10.86	90.3
12/09/2011 18:38:10.000'	-0.73	27.39	77.8	1022.42	10.81	89.7
12/09/2011 19:38:10.000'	-0.74	27.39	77.8	1022.41	10.80	89.7
12/09/2011 20:38:10.000'	-0.74	27.39	77.7	1022.41	10.81	89.7
12/09/2011 21:38:10.000'	-0.74	27.39	77.7	1022.41	10.80	89.7
12/09/2011 22:38:10.000'	-0.73	27.39	77.6	1022.41	10.81	89.7
12/09/2011 23:38:10.000'	-0.73	27.39	77.6	1022.42	10.85	90.1
13/09/2011 00:38:10.000'	-0.71	27.40	77.5	1022.42	10.85	90.1
13/09/2011 01:38:10.000'	-0.71	27.40	77.5	1022.42	10.86	90.2
13/09/2011 02:38:10.000'	-0.70	27.40	77.5	1022.42	10.86	90.3
13/09/2011 03:38:10.000'	-0.70	27.40	77.6	1022.42	10.88	90.4

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
13/09/2011 04:38:10.000'	-0.70	27.41	77.6	1022.43	10.88	90.4
13/09/2011 05:38:10.000'	-0.70	27.41	77.6	1022.43	10.88	90.4
13/09/2011 06:38:10.000'	-0.70	27.41	77.6	1022.43	10.87	90.3
13/09/2011 07:38:10.000'	-0.70	27.40	77.6	1022.42	10.87	90.3
13/09/2011 08:38:10.000'	-0.70	27.40	77.5	1022.42	10.87	90.3
13/09/2011 09:38:10.000'	-0.70	27.40	77.5	1022.42	10.86	90.2
13/09/2011 10:38:10.000'	-0.70	27.40	77.5	1022.42	10.86	90.2
13/09/2011 11:38:10.000'	-0.70	27.40	77.5	1022.42	10.86	90.2
13/09/2011 12:38:10.000'	-0.70	27.40	77.5	1022.42	10.87	90.3
13/09/2011 13:38:10.000'	-0.70	27.41	77.6	1022.43	10.87	90.3
13/09/2011 14:38:10.000'	-0.70	27.41	77.6	1022.43	10.87	90.3
13/09/2011 15:38:10.000'	-0.70	27.40	77.7	1022.42	10.87	90.3
13/09/2011 16:38:10.000'	-0.70	27.41	77.7	1022.43	10.86	90.3
13/09/2011 17:38:10.000'	-0.70	27.40	77.7	1022.42	10.85	90.1
13/09/2011 18:38:10.000'	-0.70	27.40	77.7	1022.42	10.85	90.1
13/09/2011 19:38:10.000'	-0.70	27.40	77.7	1022.42	10.84	90.1
13/09/2011 20:38:10.000'	-0.70	27.41	77.6	1022.43	10.83	90.0
13/09/2011 21:38:10.000'	-0.70	27.41	77.6	1022.43	10.85	90.2
13/09/2011 22:38:10.000'	-0.70	27.41	77.5	1022.43	10.85	90.2
13/09/2011 23:38:10.000'	-0.69	27.41	77.5	1022.43	10.86	90.3
14/09/2011 00:38:10.000'	-0.69	27.41	77.4	1022.43	10.86	90.3
14/09/2011 01:38:10.000'	-0.69	27.41	77.4	1022.43	10.86	90.3
14/09/2011 02:38:10.000'	-0.68	27.41	77.4	1022.43	10.88	90.5
14/09/2011 03:38:10.000'	-0.68	27.41	77.5	1022.43	10.88	90.4
14/09/2011 04:38:10.000'	-0.68	27.41	77.5	1022.43	10.87	90.4
14/09/2011 05:38:10.000'	-0.68	27.41	77.5	1022.43	10.88	90.4
14/09/2011 06:38:10.000'	-0.68	27.41	77.5	1022.43	10.88	90.4
14/09/2011 07:38:10.000'	-0.67	27.41	77.5	1022.43	10.88	90.5
14/09/2011 08:38:10.000'	-0.67	27.42	77.4	1022.43	10.86	90.3
14/09/2011 09:38:10.000'	-0.67	27.41	77.4	1022.43	10.85	90.2
14/09/2011 10:38:10.000'	-0.68	27.41	77.4	1022.43	10.86	90.3
14/09/2011 11:38:10.000'	-0.68	27.41	77.4	1022.43	10.81	89.9
14/09/2011 12:38:10.000'	-0.70	27.41	77.4	1022.43	10.81	89.8
14/09/2011 13:38:10.000'	-0.70	27.41	77.4	1022.43	10.81	89.8
14/09/2011 14:38:10.000'	-0.70	27.41	77.5	1022.43	10.83	90.0
14/09/2011 15:38:10.000'	-0.70	27.41	77.5	1022.43	10.81	89.8
14/09/2011 16:38:10.000'	-0.70	27.41	77.6	1022.43	10.79	89.6
14/09/2011 17:38:10.000'	-0.71	27.41	77.6	1022.43	10.75	89.3
14/09/2011 18:38:10.000'	-0.70	27.41	77.6	1022.43	10.75	89.3
14/09/2011 19:38:10.000'	-0.71	27.41	77.6	1022.43	10.74	89.3
14/09/2011 20:38:10.000'	-0.71	27.41	77.6	1022.43	10.74	89.3
14/09/2011 21:38:10.000'	-0.70	27.41	77.6	1022.43	10.80	89.7
14/09/2011 22:38:10.000'	-0.71	27.41	77.5	1022.43	10.82	89.9
14/09/2011 23:38:10.000'	-0.69	27.41	77.5	1022.43	10.86	90.3
15/09/2011 00:38:10.000'	-0.69	27.41	77.5	1022.43	10.87	90.3
15/09/2011 01:38:10.000'	-0.69	27.41	77.5	1022.43	10.86	90.3

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
15/09/2011 02:38:10.000'	-0.68	27.41	77.5	1022.43	10.87	90.4
15/09/2011 03:38:10.000'	-0.69	27.41	77.6	1022.43	10.86	90.3
15/09/2011 04:38:10.000'	-0.68	27.41	77.6	1022.43	10.87	90.4
15/09/2011 05:38:10.000'	-0.69	27.41	77.7	1022.43	10.86	90.3
15/09/2011 06:38:10.000'	-0.68	27.41	77.7	1022.43	10.85	90.2
15/09/2011 07:38:10.000'	-0.67	27.41	77.7	1022.43	10.85	90.3
15/09/2011 08:38:10.000'	-0.67	27.42	77.7	1022.43	10.85	90.3
15/09/2011 09:38:10.000'	-0.67	27.41	77.7	1022.43	10.85	90.3
15/09/2011 10:38:10.000'	-0.67	27.42	77.7	1022.43	10.86	90.3
15/09/2011 11:38:10.000'	-0.67	27.41	77.7	1022.43	10.85	90.2
15/09/2011 12:38:10.000'	-0.68	27.41	77.7	1022.43	10.86	90.3
15/09/2011 13:38:10.000'	-0.68	27.41	77.8	1022.43	10.87	90.4
15/09/2011 14:38:10.000'	-0.68	27.41	77.8	1022.43	10.86	90.3
15/09/2011 15:38:10.000'	-0.68	27.41	77.9	1022.43	10.86	90.3
15/09/2011 16:38:10.000'	-0.68	27.41	78.0	1022.43	10.86	90.3
15/09/2011 17:38:10.000'	-0.67	27.41	78.0	1022.43	10.86	90.3
15/09/2011 18:38:10.000'	-0.67	27.41	78.0	1022.43	10.85	90.2
15/09/2011 19:38:10.000'	-0.67	27.41	77.9	1022.43	10.85	90.2
15/09/2011 20:38:10.000'	-0.68	27.41	77.9	1022.43	10.85	90.2
15/09/2011 21:38:10.000'	-0.68	27.41	77.8	1022.43	10.84	90.1
15/09/2011 22:38:10.000'	-0.68	27.41	77.7	1022.43	10.84	90.1
15/09/2011 23:38:10.000'	-0.68	27.41	77.7	1022.43	10.84	90.1
16/09/2011 00:38:10.000'	-0.67	27.41	77.7	1022.43	10.83	90.1
16/09/2011 01:38:10.000'	-0.67	27.41	77.6	1022.43	10.83	90.1
16/09/2011 02:38:10.000'	-0.67	27.42	77.6	1022.43	10.83	90.1
16/09/2011 03:38:10.000'	-0.67	27.42	77.6	1022.43	10.83	90.1
16/09/2011 04:38:10.000'	-0.67	27.42	77.7	1022.43	10.81	89.9
16/09/2011 05:38:10.000'	-0.67	27.42	77.7	1022.43	10.81	89.9
16/09/2011 06:38:10.000'	-0.67	27.42	77.7	1022.43	10.81	89.9
16/09/2011 07:38:10.000'	-0.67	27.42	77.7	1022.43	10.81	89.9
16/09/2011 08:38:10.000'	-0.67	27.42	77.6	1022.44	10.81	89.9
16/09/2011 09:38:10.000'	-0.67	27.42	77.6	1022.43	10.81	89.9
16/09/2011 10:38:10.000'	-0.67	27.41	77.6	1022.43	10.80	89.8
16/09/2011 11:38:10.000'	-0.67	27.41	77.6	1022.43	10.79	89.7
16/09/2011 12:38:10.000'	-0.67	27.41	77.6	1022.43	10.80	89.8
16/09/2011 13:38:10.000'	-0.67	27.41	77.6	1022.43	10.80	89.8
16/09/2011 14:38:10.000'	-0.66	27.41	77.6	1022.43	10.85	90.2
16/09/2011 15:38:10.000'	-0.66	27.41	77.6	1022.43	10.84	90.2
16/09/2011 16:38:10.000'	-0.66	27.42	77.7	1022.43	10.85	90.2
16/09/2011 17:38:10.000'	-0.66	27.42	77.7	1022.43	10.86	90.4
16/09/2011 18:38:10.000'	-0.66	27.42	77.7	1022.43	10.86	90.4
16/09/2011 19:38:10.000'	-0.66	27.42	77.7	1022.43	10.87	90.4
16/09/2011 20:38:10.000'	-0.66	27.42	77.7	1022.43	10.87	90.4
16/09/2011 21:38:10.000'	-0.66	27.42	77.6	1022.43	10.79	89.7
16/09/2011 22:38:10.000'	-0.66	27.42	77.6	1022.43	10.75	89.4
16/09/2011 23:38:10.000'	-0.66	27.42	77.6	1022.43	10.75	89.4

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
17/09/2011 00:38:10.000'	-0.66	27.42	77.5	1022.43	10.79	89.8
17/09/2011 01:38:10.000'	-0.66	27.42	77.5	1022.44	10.82	90.0
17/09/2011 02:38:10.000'	-0.65	27.42	77.5	1022.44	10.82	90.0
17/09/2011 03:38:10.000'	-0.65	27.42	77.5	1022.44	10.82	90.0
17/09/2011 04:38:10.000'	-0.65	27.42	77.5	1022.44	10.82	90.0
17/09/2011 05:38:10.000'	-0.65	27.43	77.6	1022.44	10.81	89.9
17/09/2011 06:38:10.000'	-0.66	27.42	77.6	1022.44	10.82	90.0
17/09/2011 07:38:10.000'	-0.65	27.42	77.6	1022.44	10.82	90.0
17/09/2011 08:38:10.000'	-0.66	27.42	77.6	1022.44	10.82	90.0
17/09/2011 09:38:10.000'	-0.65	27.42	77.6	1022.44	10.81	89.9
17/09/2011 10:38:10.000'	-0.65	27.43	77.6	1022.44	10.81	89.9
17/09/2011 11:38:10.000'	-0.65	27.43	77.6	1022.44	10.80	89.8
17/09/2011 12:38:10.000'	-0.65	27.43	77.6	1022.44	10.78	89.7
17/09/2011 13:38:10.000'	-0.66	27.42	77.6	1022.44	10.78	89.7
17/09/2011 14:38:10.000'	-0.65	27.42	77.6	1022.43	10.78	89.7
17/09/2011 15:38:10.000'	-0.65	27.42	77.6	1022.43	10.85	90.2
17/09/2011 16:38:10.000'	-0.65	27.42	77.6	1022.44	10.89	90.6
17/09/2011 17:38:10.000'	-0.64	27.42	77.7	1022.44	10.89	90.6
17/09/2011 18:38:10.000'	-0.64	27.42	77.7	1022.44	10.89	90.6
17/09/2011 19:38:10.000'	-0.64	27.42	77.7	1022.44	10.90	90.7
17/09/2011 20:38:10.000'	-0.64	27.42	77.7	1022.44	10.90	90.7
17/09/2011 21:38:10.000'	-0.63	27.42	77.7	1022.44	10.90	90.7
17/09/2011 22:38:10.000'	-0.62	27.42	77.6	1022.44	10.90	90.7
17/09/2011 23:38:10.000'	-0.63	27.43	77.6	1022.44	10.90	90.7
18/09/2011 00:38:10.000'	-0.63	27.42	77.6	1022.44	10.88	90.6
18/09/2011 01:38:10.000'	-0.63	27.43	77.5	1022.44	10.88	90.6
18/09/2011 02:38:10.000'	-0.63	27.43	77.5	1022.44	10.88	90.6
18/09/2011 03:38:10.000'	-0.62	27.43	77.5	1022.44	10.87	90.5
18/09/2011 04:38:10.000'	-0.62	27.43	77.6	1022.44	10.87	90.5
18/09/2011 05:38:10.000'	-0.62	27.43	77.6	1022.44	10.89	90.7
18/09/2011 06:38:10.000'	-0.60	27.43	77.6	1022.45	10.93	91.0
18/09/2011 07:38:10.000'	-0.60	27.44	77.7	1022.45	10.93	91.0
18/09/2011 08:38:10.000'	-0.59	27.43	77.7	1022.45	10.93	91.1
18/09/2011 09:38:10.000'	-0.59	27.44	77.7	1022.45	10.93	91.1
18/09/2011 10:38:10.000'	-0.59	27.44	77.7	1022.45	10.93	91.1
18/09/2011 11:38:10.000'	-0.59	27.44	77.6	1022.45	10.93	91.1
18/09/2011 12:38:10.000'	-0.58	27.44	77.6	1022.45	10.92	91.0
18/09/2011 13:38:10.000'	-0.58	27.44	77.6	1022.45	10.92	91.0
18/09/2011 14:38:10.000'	-0.59	27.44	77.6	1022.45	10.93	91.1
18/09/2011 15:38:10.000'	-0.58	27.44	77.6	1022.45	10.94	91.2
18/09/2011 16:38:10.000'	-0.58	27.44	77.6	1022.45	10.93	91.1
18/09/2011 17:38:10.000'	-0.58	27.44	77.6	1022.45	10.93	91.1
18/09/2011 18:38:10.000'	-0.57	27.45	77.6	1022.46	10.93	91.2
18/09/2011 19:38:10.000'	-0.56	27.45	77.6	1022.46	10.96	91.4
18/09/2011 20:38:10.000'	-0.55	27.45	77.6	1022.46	10.98	91.6
18/09/2011 21:38:10.000'	-0.55	27.45	77.6	1022.46	10.98	91.6

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
18/09/2011 22:38:10.000'	-0.55	27.45	77.6	1022.46	10.98	91.6
18/09/2011 23:38:10.000'	-0.55	27.45	77.5	1022.46	10.98	91.7
19/09/2011 00:38:10.000'	-0.55	27.45	77.5	1022.46	10.98	91.7
19/09/2011 01:38:10.000'	-0.55	27.45	77.5	1022.46	10.97	91.6
19/09/2011 02:38:10.000'	-0.55	27.45	77.5	1022.46	10.98	91.6
19/09/2011 03:38:10.000'	-0.55	27.46	77.5	1022.46	10.97	91.6
19/09/2011 04:38:10.000'	-0.55	27.45	77.5	1022.46	10.98	91.6
19/09/2011 05:38:10.000'	-0.54	27.46	77.6	1022.46	10.99	91.7
19/09/2011 06:38:10.000'	-0.54	27.46	77.6	1022.46	10.99	91.8
19/09/2011 07:38:10.000'	-0.54	27.46	77.6	1022.47	10.99	91.8
19/09/2011 08:38:10.000'	-0.54	27.46	77.7	1022.47	10.98	91.7
19/09/2011 09:38:10.000'	-0.54	27.46	77.7	1022.46	10.97	91.6
19/09/2011 10:38:10.000'	-0.54	27.46	77.7	1022.46	10.97	91.6
19/09/2011 11:38:10.000'	-0.54	27.45	77.7	1022.46	10.96	91.5
19/09/2011 12:38:10.000'	-0.55	27.45	77.6	1022.46	10.96	91.5
19/09/2011 13:38:10.000'	-0.55	27.45	77.6	1022.46	10.98	91.6
19/09/2011 14:38:10.000'	-0.55	27.45	77.6	1022.46	10.96	91.5
19/09/2011 15:38:10.000'	-0.55	27.45	77.6	1022.46	10.98	91.6
19/09/2011 16:38:10.000'	-0.56	27.45	77.6	1022.45	10.98	91.6
19/09/2011 17:38:10.000'	-0.56	27.45	77.6	1022.46	10.97	91.5
19/09/2011 18:38:10.000'	-0.57	27.45	77.6	1022.45	10.97	91.5
19/09/2011 19:38:10.000'	-0.57	27.44	77.6	1022.45	10.98	91.6
19/09/2011 20:38:10.000'	-0.58	27.44	77.6	1022.45	10.99	91.6
19/09/2011 21:38:10.000'	-0.58	27.44	77.6	1022.45	10.96	91.4
19/09/2011 22:38:10.000'	-0.61	27.43	77.6	1022.44	10.91	90.9
19/09/2011 23:38:10.000'	-0.61	27.43	77.5	1022.44	10.91	90.9
20/09/2011 00:38:10.000'	-0.61	27.43	77.5	1022.44	10.90	90.8
20/09/2011 01:38:10.000'	-0.60	27.43	77.5	1022.44	10.89	90.7
20/09/2011 02:38:10.000'	-0.60	27.44	77.5	1022.45	10.89	90.7
20/09/2011 03:38:10.000'	-0.60	27.44	77.5	1022.45	10.89	90.7
20/09/2011 04:38:10.000'	-0.59	27.44	77.5	1022.45	10.89	90.8
20/09/2011 05:38:10.000'	-0.60	27.44	77.5	1022.45	10.91	90.9
20/09/2011 06:38:10.000'	-0.60	27.44	77.6	1022.45	10.92	91.0
20/09/2011 07:38:10.000'	-0.60	27.44	77.6	1022.45	10.92	91.0
20/09/2011 08:38:10.000'	-0.59	27.44	77.6	1022.45	10.91	90.9
20/09/2011 09:38:10.000'	-0.59	27.44	77.7	1022.45	10.92	91.0
20/09/2011 10:38:10.000'	-0.59	27.43	77.7	1022.45	10.91	90.9
20/09/2011 11:38:10.000'	-0.59	27.44	77.7	1022.45	10.92	91.0
20/09/2011 12:38:10.000'	-0.58	27.44	77.6	1022.45	10.94	91.2
20/09/2011 13:38:10.000'	-0.57	27.45	77.6	1022.46	10.94	91.3
20/09/2011 14:38:10.000'	-0.57	27.45	77.5	1022.46	10.94	91.2
20/09/2011 15:38:10.000'	-0.58	27.44	77.5	1022.45	10.93	91.1
20/09/2011 16:38:10.000'	-0.57	27.45	77.5	1022.45	10.94	91.2
20/09/2011 17:38:10.000'	-0.57	27.44	77.5	1022.45	10.93	91.2
20/09/2011 18:38:10.000'	-0.57	27.44	77.5	1022.45	10.93	91.2
20/09/2011 19:38:10.000'	-0.58	27.44	77.4	1022.45	10.92	91.1

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
20/09/2011 20:38:10.000'	-0.58	27.44	77.4	1022.45	10.92	91.0
20/09/2011 21:38:10.000'	-0.58	27.44	77.4	1022.45	10.91	91.0
20/09/2011 22:38:10.000'	-0.57	27.45	77.4	1022.45	10.92	91.1
20/09/2011 23:38:10.000'	-0.57	27.45	77.4	1022.46	10.93	91.1
21/09/2011 00:38:10.000'	-0.56	27.45	77.3	1022.46	10.93	91.2
21/09/2011 01:38:10.000'	-0.56	27.45	77.3	1022.45	10.92	91.1
21/09/2011 02:38:10.000'	-0.56	27.45	77.3	1022.46	10.91	91.0
21/09/2011 03:38:10.000'	-0.56	27.45	77.3	1022.45	10.91	91.0
21/09/2011 04:38:10.000'	-0.56	27.45	77.3	1022.46	10.91	91.0
21/09/2011 05:38:10.000'	-0.57	27.45	77.3	1022.45	10.91	91.0
21/09/2011 06:38:10.000'	-0.57	27.45	77.3	1022.45	10.91	91.0
21/09/2011 07:38:10.000'	-0.57	27.45	77.4	1022.46	10.92	91.1
21/09/2011 08:38:10.000'	-0.57	27.45	77.4	1022.46	10.93	91.2
21/09/2011 09:38:10.000'	-0.57	27.45	77.5	1022.46	10.92	91.1
21/09/2011 10:38:10.000'	-0.56	27.45	77.5	1022.46	10.92	91.1
21/09/2011 11:38:10.000'	-0.57	27.45	77.5	1022.46	10.89	90.9
21/09/2011 12:38:10.000'	-0.57	27.45	77.5	1022.46	10.86	90.5
21/09/2011 13:38:10.000'	-0.58	27.44	77.5	1022.45	10.84	90.4
21/09/2011 14:38:10.000'	-0.59	27.44	77.5	1022.45	10.85	90.4
21/09/2011 15:38:10.000'	-0.59	27.44	77.5	1022.45	10.82	90.2
21/09/2011 16:38:10.000'	-0.60	27.44	77.5	1022.45	10.79	89.9
21/09/2011 17:38:10.000'	-0.61	27.43	77.5	1022.44	10.79	89.9
21/09/2011 18:38:10.000'	-0.62	27.43	77.5	1022.44	10.80	89.9
21/09/2011 19:38:10.000'	-0.64	27.42	77.5	1022.44	10.81	90.0
21/09/2011 20:38:10.000'	-0.65	27.42	77.4	1022.43	10.81	89.9
21/09/2011 21:38:10.000'	-0.65	27.42	77.4	1022.43	10.81	89.9
21/09/2011 22:38:10.000'	-0.65	27.42	77.4	1022.43	10.77	89.6
21/09/2011 23:38:10.000'	-0.66	27.41	77.4	1022.43	10.77	89.6
22/09/2011 00:38:10.000'	-0.66	27.42	77.3	1022.43	10.72	89.1
22/09/2011 01:38:10.000'	-0.66	27.41	77.3	1022.43	10.72	89.1
22/09/2011 02:38:10.000'	-0.66	27.41	77.2	1022.43	10.72	89.1
22/09/2011 03:38:10.000'	-0.66	27.42	77.2	1022.43	10.79	89.7
22/09/2011 04:38:10.000'	-0.65	27.41	77.2	1022.43	10.79	89.8
22/09/2011 05:38:10.000'	-0.63	27.42	77.2	1022.44	10.81	90.0
22/09/2011 06:38:10.000'	-0.63	27.42	77.2	1022.44	10.82	90.1
22/09/2011 07:38:10.000'	-0.63	27.42	77.2	1022.44	10.83	90.2
22/09/2011 08:38:10.000'	-0.61	27.43	77.3	1022.45	10.83	90.2
22/09/2011 09:38:10.000'	-0.61	27.43	77.4	1022.44	10.83	90.2
22/09/2011 10:38:10.000'	-0.61	27.43	77.4	1022.44	10.83	90.2
22/09/2011 11:38:10.000'	-0.61	27.43	77.5	1022.44	10.81	90.1
22/09/2011 12:38:10.000'	-0.62	27.43	77.5	1022.44	10.82	90.2
22/09/2011 13:38:10.000'	-0.62	27.43	77.5	1022.44	10.80	90.0
22/09/2011 14:38:10.000'	-0.62	27.43	77.5	1022.44	10.80	90.0
22/09/2011 15:38:10.000'	-0.62	27.43	77.5	1022.44	10.81	90.1
22/09/2011 16:38:10.000'	-0.62	27.43	77.5	1022.44	10.81	90.0
22/09/2011 17:38:10.000'	-0.62	27.43	77.5	1022.44	10.81	90.0

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
22/09/2011 18:38:10.000'	-0.62	27.43	77.5	1022.44	10.82	90.1
22/09/2011 19:38:10.000'	-0.62	27.43	77.5	1022.44	10.82	90.1
22/09/2011 20:38:10.000'	-0.62	27.43	77.5	1022.44	10.81	90.1
22/09/2011 21:38:10.000'	-0.62	27.43	77.5	1022.44	10.81	90.0
22/09/2011 22:38:10.000'	-0.62	27.43	77.5	1022.44	10.81	90.1
22/09/2011 23:38:10.000'	-0.61	27.43	77.5	1022.44	10.81	90.1
23/09/2011 00:38:10.000'	-0.61	27.43	77.5	1022.44	10.82	90.1
23/09/2011 01:38:10.000'	-0.61	27.43	77.5	1022.44	10.81	90.1
23/09/2011 02:38:10.000'	-0.60	27.43	77.5	1022.45	10.81	90.0
23/09/2011 03:38:10.000'	-0.61	27.43	77.4	1022.45	10.82	90.1
23/09/2011 04:38:10.000'	-0.61	27.44	77.4	1022.45	10.81	90.0
23/09/2011 05:38:10.000'	-0.63	27.43	77.4	1022.44	10.78	89.7
23/09/2011 06:38:10.000'	-0.64	27.42	77.4	1022.44	10.78	89.7
23/09/2011 07:38:10.000'	-0.64	27.42	77.5	1022.44	10.74	89.4
23/09/2011 08:38:10.000'	-0.64	27.42	77.6	1022.44	10.75	89.5
23/09/2011 09:38:10.000'	-0.64	27.42	77.6	1022.44	10.75	89.5
23/09/2011 10:38:10.000'	-0.63	27.43	77.7	1022.44	10.80	89.9
23/09/2011 11:38:10.000'	-0.62	27.43	77.7	1022.44	10.79	89.9
23/09/2011 12:38:10.000'	-0.62	27.42	77.7	1022.44	10.79	89.9
23/09/2011 13:38:10.000'	-0.61	27.43	77.7	1022.44	10.79	89.9
23/09/2011 14:38:10.000'	-0.61	27.43	77.7	1022.44	10.79	89.9
23/09/2011 15:38:10.000'	-0.61	27.43	77.7	1022.44	10.80	90.0
23/09/2011 16:38:10.000'	-0.59	27.44	77.7	1022.45	10.81	90.1
23/09/2011 17:38:10.000'	-0.59	27.44	77.6	1022.45	10.81	90.1
23/09/2011 18:38:10.000'	-0.59	27.44	77.6	1022.45	10.81	90.1
23/09/2011 19:38:10.000'	-0.59	27.44	77.6	1022.45	10.80	90.0
23/09/2011 20:38:10.000'	-0.61	27.43	77.6	1022.44	10.80	89.9
23/09/2011 21:38:10.000'	-0.61	27.43	77.6	1022.44	10.79	89.9
23/09/2011 22:38:10.000'	-0.61	27.43	77.6	1022.44	10.79	89.9
23/09/2011 23:38:10.000'	-0.61	27.43	77.6	1022.44	10.80	90.0
24/09/2011 00:38:10.000'	-0.61	27.43	77.6	1022.44	10.80	89.9
24/09/2011 01:38:10.000'	-0.62	27.43	77.6	1022.44	10.77	89.7
24/09/2011 02:38:10.000'	-0.64	27.42	77.6	1022.44	10.74	89.4
24/09/2011 03:38:10.000'	-0.65	27.42	77.6	1022.43	10.72	89.2
24/09/2011 04:38:10.000'	-0.65	27.42	77.6	1022.43	10.72	89.2
24/09/2011 05:38:10.000'	-0.65	27.42	77.6	1022.43	10.71	89.1
24/09/2011 06:38:10.000'	-0.65	27.42	77.6	1022.43	10.70	89.1
24/09/2011 07:38:10.000'	-0.65	27.42	77.6	1022.43	10.71	89.1
24/09/2011 08:38:10.000'	-0.65	27.42	77.6	1022.44	10.71	89.1
24/09/2011 09:38:10.000'	-0.65	27.42	77.6	1022.44	10.71	89.1
24/09/2011 10:38:10.000'	-0.65	27.42	77.7	1022.44	10.71	89.1
24/09/2011 11:38:10.000'	-0.64	27.42	77.7	1022.44	10.72	89.2
24/09/2011 12:38:10.000'	-0.64	27.42	77.8	1022.44	10.72	89.2
24/09/2011 13:38:10.000'	-0.64	27.42	77.8	1022.44	10.70	89.1
24/09/2011 14:38:10.000'	-0.64	27.42	77.8	1022.44	10.69	89.0
24/09/2011 15:38:10.000'	-0.63	27.42	77.8	1022.44	10.70	89.1

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
24/09/2011 16:38:10.000'	-0.61	27.43	77.8	1022.44	10.79	89.9
24/09/2011 17:38:10.000'	-0.61	27.43	77.8	1022.44	10.78	89.8
24/09/2011 18:38:10.000'	-0.60	27.43	77.7	1022.44	10.78	89.8
24/09/2011 19:38:10.000'	-0.59	27.44	77.7	1022.45	10.79	89.9
24/09/2011 20:38:10.000'	-0.59	27.43	77.6	1022.45	10.80	90.0
24/09/2011 21:38:10.000'	-0.59	27.43	77.6	1022.44	10.81	90.1
24/09/2011 22:38:10.000'	-0.59	27.43	77.6	1022.44	10.80	90.0
24/09/2011 23:38:10.000'	-0.60	27.43	77.6	1022.44	10.78	89.8
25/09/2011 00:38:10.000'	-0.63	27.42	77.6	1022.44	10.73	89.3
25/09/2011 01:38:10.000'	-0.63	27.42	77.6	1022.44	10.61	88.4
25/09/2011 02:38:10.000'	-0.63	27.42	77.6	1022.44	10.60	88.3
25/09/2011 03:38:10.000'	-0.65	27.42	77.6	1022.43	10.58	88.0
25/09/2011 04:38:10.000'	-0.66	27.42	77.6	1022.43	10.58	88.0
25/09/2011 05:38:10.000'	-0.67	27.41	77.6	1022.43	10.51	87.4
25/09/2011 06:38:10.000'	-0.66	27.42	77.6	1022.43	10.47	87.1
25/09/2011 07:38:10.000'	-0.66	27.42	77.6	1022.43	10.47	87.1
25/09/2011 08:38:10.000'	-0.66	27.41	77.6	1022.43	10.47	87.1
25/09/2011 09:38:10.000'	-0.66	27.41	77.6	1022.43	10.51	87.4
25/09/2011 10:38:10.000'	-0.66	27.42	77.7	1022.43	10.60	88.2
25/09/2011 11:38:10.000'	-0.64	27.42	77.7	1022.44	10.68	88.9
25/09/2011 12:38:10.000'	-0.63	27.42	77.8	1022.44	10.71	89.2
25/09/2011 13:38:10.000'	-0.62	27.42	77.8	1022.44	10.74	89.4
25/09/2011 14:38:10.000'	-0.61	27.42	77.8	1022.44	10.76	89.7
25/09/2011 15:38:10.000'	-0.61	27.42	77.8	1022.44	10.76	89.6
25/09/2011 16:38:10.000'	-0.61	27.42	77.8	1022.44	10.76	89.6
25/09/2011 17:38:10.000'	-0.61	27.42	77.8	1022.44	10.76	89.7
25/09/2011 18:38:10.000'	-0.60	27.43	77.7	1022.44	10.77	89.8
25/09/2011 19:38:10.000'	-0.59	27.43	77.6	1022.44	10.79	90.0
25/09/2011 20:38:10.000'	-0.58	27.43	77.6	1022.44	10.80	90.0
25/09/2011 21:38:10.000'	-0.58	27.43	77.5	1022.45	10.80	90.1
25/09/2011 22:38:10.000'	-0.58	27.43	77.5	1022.45	10.80	90.0
25/09/2011 23:38:10.000'	-0.58	27.43	77.5	1022.45	10.79	90.0
26/09/2011 00:38:10.000'	-0.58	27.43	77.5	1022.44	10.78	89.9
26/09/2011 01:38:10.000'	-0.59	27.43	77.5	1022.44	10.79	89.9
26/09/2011 02:38:10.000'	-0.59	27.43	77.5	1022.44	10.80	90.0
26/09/2011 03:38:10.000'	-0.60	27.43	77.5	1022.44	10.79	89.9
26/09/2011 04:38:10.000'	-0.60	27.42	77.5	1022.44	10.77	89.7
26/09/2011 05:38:10.000'	-0.61	27.42	77.5	1022.44	10.74	89.4
26/09/2011 06:38:10.000'	-0.61	27.42	77.5	1022.44	10.72	89.3
26/09/2011 07:38:10.000'	-0.61	27.42	77.4	1022.44	10.73	89.4
26/09/2011 08:38:10.000'	-0.61	27.42	77.4	1022.44	10.74	89.5
26/09/2011 09:38:10.000'	-0.60	27.43	77.4	1022.44	10.74	89.5
26/09/2011 10:38:10.000'	-0.58	27.43	77.4	1022.44	10.76	89.7
26/09/2011 11:38:10.000'	-0.59	27.43	77.4	1022.44	10.76	89.7
26/09/2011 12:38:10.000'	-0.59	27.43	77.5	1022.44	10.77	89.8
26/09/2011 13:38:10.000'	-0.59	27.43	77.5	1022.44	10.76	89.7

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
26/09/2011 14:38:10.000'	-0.58	27.43	77.5	1022.44	10.77	89.8
26/09/2011 15:38:10.000'	-0.58	27.43	77.5	1022.44	10.76	89.7
26/09/2011 16:38:10.000'	-0.58	27.43	77.5	1022.44	10.77	89.8
26/09/2011 17:38:10.000'	-0.58	27.43	77.5	1022.44	10.78	89.9
26/09/2011 18:38:10.000'	-0.58	27.43	77.5	1022.44	10.79	90.0
26/09/2011 19:38:10.000'	-0.58	27.43	77.4	1022.44	10.80	90.0
26/09/2011 20:38:10.000'	-0.58	27.43	77.3	1022.44	10.79	89.9
26/09/2011 21:38:10.000'	-0.58	27.43	77.3	1022.44	10.78	89.9
26/09/2011 22:38:10.000'	-0.58	27.43	77.3	1022.44	10.78	89.8
26/09/2011 23:38:10.000'	-0.58	27.43	77.3	1022.44	10.77	89.8
27/09/2011 00:38:10.000'	-0.58	27.43	77.3	1022.44	10.76	89.7
27/09/2011 01:38:10.000'	-0.58	27.43	77.3	1022.44	10.76	89.7
27/09/2011 02:38:10.000'	-0.58	27.43	77.4	1022.44	10.75	89.6
27/09/2011 03:38:10.000'	-0.58	27.43	77.4	1022.44	10.76	89.7
27/09/2011 04:38:10.000'	-0.58	27.43	77.4	1022.44	10.75	89.6
27/09/2011 05:38:10.000'	-0.57	27.43	77.4	1022.45	10.75	89.7
27/09/2011 06:38:10.000'	-0.57	27.44	77.5	1022.45	10.76	89.7
27/09/2011 07:38:10.000'	-0.57	27.44	77.5	1022.45	10.77	89.8
27/09/2011 08:38:10.000'	-0.57	27.44	77.5	1022.45	10.77	89.8
27/09/2011 09:38:10.000'	-0.57	27.44	77.5	1022.45	10.76	89.7
27/09/2011 10:38:10.000'	-0.57	27.44	77.5	1022.45	10.77	89.8
27/09/2011 11:38:10.000'	-0.56	27.44	77.5	1022.45	10.75	89.7
27/09/2011 12:38:10.000'	-0.56	27.44	77.6	1022.45	10.77	89.8
27/09/2011 13:38:10.000'	-0.56	27.44	77.7	1022.45	10.77	89.8
27/09/2011 14:38:10.000'	-0.56	27.44	77.8	1022.45	10.78	90.0
27/09/2011 15:38:10.000'	-0.55	27.44	77.8	1022.45	10.78	90.0
27/09/2011 16:38:10.000'	-0.55	27.44	77.8	1022.45	10.81	90.2
27/09/2011 17:38:10.000'	-0.55	27.44	77.8	1022.45	10.80	90.1
27/09/2011 18:38:10.000'	-0.55	27.44	77.8	1022.45	10.80	90.1
27/09/2011 19:38:10.000'	-0.56	27.44	77.8	1022.45	10.80	90.1
27/09/2011 20:38:10.000'	-0.57	27.44	77.7	1022.45	10.77	89.8
27/09/2011 21:38:10.000'	-0.57	27.44	77.7	1022.45	10.77	89.8
27/09/2011 22:38:10.000'	-0.57	27.43	77.7	1022.45	10.77	89.8
27/09/2011 23:38:10.000'	-0.57	27.43	77.7	1022.45	10.75	89.7
28/09/2011 00:38:10.000'	-0.57	27.43	77.7	1022.44	10.77	89.8
28/09/2011 01:38:10.000'	-0.57	27.43	77.7	1022.45	10.76	89.7
28/09/2011 02:38:10.000'	-0.57	27.43	77.8	1022.45	10.78	89.9
28/09/2011 03:38:10.000'	-0.57	27.43	77.8	1022.44	10.76	89.7
28/09/2011 04:38:10.000'	-0.57	27.43	77.8	1022.45	10.75	89.7
28/09/2011 05:38:10.000'	-0.58	27.43	77.8	1022.45	10.76	89.7
28/09/2011 06:38:10.000'	-0.58	27.43	77.8	1022.44	10.75	89.7
28/09/2011 07:38:10.000'	-0.58	27.43	77.8	1022.44	10.73	89.4
28/09/2011 08:38:10.000'	-0.58	27.43	77.8	1022.44	10.74	89.5
28/09/2011 09:38:10.000'	-0.58	27.43	77.8	1022.45	10.73	89.5
28/09/2011 10:38:10.000'	-0.58	27.43	77.8	1022.45	10.73	89.5
28/09/2011 11:38:10.000'	-0.58	27.43	77.8	1022.45	10.73	89.4

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
28/09/2011 12:38:10.000'	-0.58	27.43	77.8	1022.45	10.73	89.4
28/09/2011 13:38:10.000'	-0.58	27.43	77.9	1022.44	10.72	89.4
28/09/2011 14:38:10.000'	-0.58	27.43	77.9	1022.45	10.71	89.3
28/09/2011 15:38:10.000'	-0.58	27.43	77.9	1022.44	10.71	89.3
28/09/2011 16:38:10.000'	-0.58	27.43	77.9	1022.45	10.71	89.3
28/09/2011 17:38:10.000'	-0.58	27.43	77.9	1022.45	10.71	89.3
28/09/2011 18:38:10.000'	-0.58	27.43	77.9	1022.44	10.71	89.3
28/09/2011 19:38:10.000'	-0.59	27.43	77.8	1022.44	10.69	89.1
28/09/2011 20:38:10.000'	-0.59	27.43	77.8	1022.44	10.69	89.1
28/09/2011 21:38:10.000'	-0.59	27.43	77.7	1022.44	10.67	89.0
28/09/2011 22:38:10.000'	-0.59	27.43	77.7	1022.44	10.63	88.6
28/09/2011 23:38:10.000'	-0.60	27.43	77.6	1022.44	10.61	88.4
29/09/2011 00:38:10.000'	-0.60	27.43	77.6	1022.44	10.63	88.5
29/09/2011 01:38:10.000'	-0.60	27.43	77.6	1022.44	10.62	88.5
29/09/2011 02:38:10.000'	-0.60	27.43	77.6	1022.44	10.63	88.6
29/09/2011 03:38:10.000'	-0.61	27.42	77.6	1022.44	10.66	88.8
29/09/2011 04:38:10.000'	-0.61	27.42	77.6	1022.44	10.66	88.8
29/09/2011 05:38:10.000'	-0.61	27.42	77.7	1022.44	10.66	88.8
29/09/2011 06:38:10.000'	-0.61	27.42	77.7	1022.44	10.57	88.0
29/09/2011 07:38:10.000'	-0.62	27.42	77.7	1022.44	10.57	88.0
29/09/2011 08:38:10.000'	-0.62	27.43	77.6	1022.44	10.57	88.0
29/09/2011 09:38:10.000'	-0.62	27.42	77.6	1022.44	10.65	88.7
29/09/2011 10:38:10.000'	-0.62	27.42	77.6	1022.44	10.65	88.7
29/09/2011 11:38:10.000'	-0.62	27.42	77.6	1022.44	10.65	88.7
29/09/2011 12:38:10.000'	-0.62	27.42	77.6	1022.43	10.68	88.9
29/09/2011 13:38:10.000'	-0.62	27.42	77.6	1022.43	10.69	89.1
29/09/2011 14:38:10.000'	-0.62	27.42	77.6	1022.43	10.69	89.1
29/09/2011 15:38:10.000'	-0.62	27.42	77.7	1022.43	10.68	88.9
29/09/2011 16:38:10.000'	-0.62	27.41	77.7	1022.43	10.67	88.9
29/09/2011 17:38:10.000'	-0.62	27.41	77.7	1022.43	10.70	89.1
29/09/2011 18:38:10.000'	-0.62	27.41	77.7	1022.43	10.79	89.8
29/09/2011 19:38:10.000'	-0.62	27.41	77.6	1022.43	10.78	89.8
29/09/2011 20:38:10.000'	-0.62	27.41	77.6	1022.42	10.78	89.8
29/09/2011 21:38:10.000'	-0.63	27.41	77.5	1022.42	10.74	89.4
29/09/2011 22:38:10.000'	-0.61	27.40	77.5	1022.42	10.74	89.4
29/09/2011 23:38:10.000'	-0.62	27.40	77.4	1022.42	10.74	89.4
30/09/2011 00:38:10.000'	-0.62	27.41	77.4	1022.42	10.74	89.4
30/09/2011 01:38:10.000'	-0.62	27.41	77.4	1022.42	10.76	89.6
30/09/2011 02:38:10.000'	-0.62	27.41	77.4	1022.42	10.76	89.6
30/09/2011 03:38:10.000'	-0.62	27.41	77.4	1022.42	10.72	89.3
30/09/2011 04:38:10.000'	-0.62	27.41	77.5	1022.42	10.72	89.3
30/09/2011 05:38:10.000'	-0.62	27.41	77.5	1022.42	10.77	89.7
30/09/2011 06:38:10.000'	-0.62	27.41	77.5	1022.42	10.76	89.6
30/09/2011 07:38:10.000'	-0.60	27.41	77.5	1022.42	10.77	89.7
30/09/2011 08:38:10.000'	-0.59	27.41	77.5	1022.42	10.76	89.7
30/09/2011 09:38:10.000'	-0.59	27.40	77.5	1022.42	10.75	89.6

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
30/09/2011 10:38:10.000'	-0.59	27.41	77.4	1022.42	10.75	89.6
30/09/2011 11:38:10.000'	-0.59	27.40	77.4	1022.42	10.75	89.5
30/09/2011 12:38:10.000'	-0.59	27.40	77.4	1022.42	10.75	89.6
30/09/2011 13:38:10.000'	-0.59	27.40	77.4	1022.42	10.73	89.4
30/09/2011 14:38:10.000'	-0.59	27.41	77.4	1022.42	10.74	89.5
30/09/2011 15:38:10.000'	-0.59	27.40	77.4	1022.42	10.73	89.4
30/09/2011 16:38:10.000'	-0.59	27.40	77.4	1022.42	10.74	89.5
30/09/2011 17:38:10.000'	-0.59	27.41	77.4	1022.42	10.74	89.5
30/09/2011 18:38:10.000'	-0.59	27.40	77.4	1022.42	10.73	89.5
30/09/2011 19:38:10.000'	-0.59	27.41	77.4	1022.42	10.73	89.5
30/09/2011 20:38:10.000'	-0.59	27.41	77.4	1022.42	10.72	89.3
30/09/2011 21:38:10.000'	-0.59	27.41	77.4	1022.42	10.73	89.4
30/09/2011 22:38:10.000'	-0.59	27.41	77.3	1022.42	10.73	89.4
30/09/2011 23:38:10.000'	-0.59	27.41	77.3	1022.42	10.73	89.4
01/10/2011 00:38:10.000'	-0.59	27.41	77.3	1022.42	10.73	89.4
01/10/2011 01:38:10.000'	-0.59	27.41	77.3	1022.42	10.73	89.4
01/10/2011 02:38:10.000'	-0.59	27.41	77.3	1022.42	10.72	89.4
01/10/2011 03:38:10.000'	-0.58	27.41	77.3	1022.42	10.73	89.4
01/10/2011 04:38:10.000'	-0.58	27.41	77.4	1022.43	10.74	89.6
01/10/2011 05:38:10.000'	-0.57	27.41	77.5	1022.43	10.76	89.7
01/10/2011 06:38:10.000'	-0.56	27.42	77.6	1022.43	10.76	89.7
01/10/2011 07:38:10.000'	-0.56	27.41	77.6	1022.43	10.76	89.7
01/10/2011 08:38:10.000'	-0.54	27.43	77.6	1022.44	10.76	89.8
01/10/2011 09:38:10.000'	-0.53	27.43	77.6	1022.44	10.76	89.8
01/10/2011 10:38:10.000'	-0.54	27.43	77.6	1022.44	10.76	89.8
01/10/2011 11:38:10.000'	-0.55	27.42	77.6	1022.44	10.75	89.7
01/10/2011 12:38:10.000'	-0.55	27.42	77.6	1022.44	10.75	89.7
01/10/2011 13:38:10.000'	-0.56	27.42	77.6	1022.43	10.71	89.3
01/10/2011 14:38:10.000'	-0.57	27.41	77.6	1022.43	10.71	89.3
01/10/2011 15:38:10.000'	-0.57	27.41	77.6	1022.43	10.71	89.3
01/10/2011 16:38:10.000'	-0.56	27.42	77.7	1022.43	10.71	89.4
01/10/2011 17:38:10.000'	-0.55	27.42	77.7	1022.44	10.73	89.5
01/10/2011 18:38:10.000'	-0.54	27.43	77.7	1022.44	10.73	89.6
01/10/2011 19:38:10.000'	-0.52	27.44	77.7	1022.45	10.74	89.7
01/10/2011 20:38:10.000'	-0.52	27.43	77.7	1022.45	10.74	89.7
01/10/2011 21:38:10.000'	-0.52	27.43	77.7	1022.45	10.74	89.7
01/10/2011 22:38:10.000'	-0.53	27.43	77.7	1022.45	10.70	89.3
01/10/2011 23:38:10.000'	-0.54	27.43	77.6	1022.44	10.70	89.3
02/10/2011 00:38:10.000'	-0.54	27.44	77.6	1022.45	10.70	89.3
02/10/2011 01:38:10.000'	-0.53	27.44	77.6	1022.45	10.71	89.4
02/10/2011 02:38:10.000'	-0.52	27.44	77.6	1022.45	10.71	89.4
02/10/2011 03:38:10.000'	-0.52	27.44	77.6	1022.45	10.75	89.8
02/10/2011 04:38:10.000'	-0.52	27.44	77.6	1022.45	10.76	89.9
02/10/2011 05:38:10.000'	-0.52	27.44	77.7	1022.45	10.77	90.0
02/10/2011 06:38:10.000'	-0.52	27.44	77.7	1022.45	10.77	90.0
02/10/2011 07:38:10.000'	-0.52	27.43	77.8	1022.44	10.79	90.1

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
02/10/2011 08:38:10.000'	-0.47	27.44	77.8	1022.45	10.79	90.3
02/10/2011 09:38:10.000'	-0.45	27.45	77.8	1022.46	10.81	90.4
02/10/2011 10:38:10.000'	-0.45	27.45	77.8	1022.46	10.82	90.5
02/10/2011 11:38:10.000'	-0.45	27.45	77.7	1022.46	10.81	90.4
02/10/2011 12:38:10.000'	-0.45	27.45	77.7	1022.46	10.81	90.4
02/10/2011 13:38:10.000'	-0.48	27.45	77.6	1022.46	10.81	90.4
02/10/2011 14:38:10.000'	-0.49	27.45	77.6	1022.46	10.77	90.0
02/10/2011 15:38:10.000'	-0.49	27.44	77.6	1022.45	10.77	90.0
02/10/2011 16:38:10.000'	-0.50	27.44	77.6	1022.45	10.76	89.9
02/10/2011 17:38:10.000'	-0.55	27.43	77.6	1022.44	10.72	89.4
02/10/2011 18:38:10.000'	-0.55	27.42	77.6	1022.43	10.72	89.4
02/10/2011 19:38:10.000'	-0.56	27.41	77.6	1022.43	10.72	89.4
02/10/2011 20:38:10.000'	-0.56	27.42	77.6	1022.43	10.71	89.4
02/10/2011 21:38:10.000'	-0.55	27.42	77.6	1022.43	10.73	89.5
02/10/2011 22:38:10.000'	-0.55	27.42	77.5	1022.43	10.73	89.5
02/10/2011 23:38:10.000'	-0.56	27.42	77.5	1022.43	10.74	89.5
03/10/2011 00:38:10.000'	-0.56	27.42	77.4	1022.43	10.74	89.6
03/10/2011 01:38:10.000'	-0.57	27.41	77.4	1022.43	10.75	89.6
03/10/2011 02:38:10.000'	-0.57	27.41	77.4	1022.43	10.75	89.6
03/10/2011 03:38:10.000'	-0.58	27.41	77.4	1022.42	10.74	89.5
03/10/2011 04:38:10.000'	-0.58	27.41	77.5	1022.42	10.74	89.5
03/10/2011 05:38:10.000'	-0.58	27.41	77.6	1022.42	10.72	89.3
03/10/2011 06:38:10.000'	-0.58	27.41	77.6	1022.42	10.73	89.4
03/10/2011 07:38:10.000'	-0.59	27.41	77.7	1022.42	10.72	89.3
03/10/2011 08:38:10.000'	-0.60	27.40	77.7	1022.42	10.73	89.4
03/10/2011 09:38:10.000'	-0.62	27.40	77.7	1022.42	10.65	88.7
03/10/2011 10:38:10.000'	-0.63	27.39	77.7	1022.41	10.58	88.1
03/10/2011 11:38:10.000'	-0.64	27.39	77.7	1022.41	10.58	88.1
03/10/2011 12:38:10.000'	-0.66	27.39	77.6	1022.41	10.53	87.5
03/10/2011 13:38:10.000'	-0.66	27.39	77.6	1022.41	10.52	87.5
03/10/2011 14:38:10.000'	-0.66	27.39	77.5	1022.41	10.52	87.5
03/10/2011 15:38:10.000'	-0.65	27.39	77.5	1022.41	10.52	87.5
03/10/2011 16:38:10.000'	-0.64	27.39	77.5	1022.41	10.57	88.0
03/10/2011 17:38:10.000'	-0.63	27.39	77.5	1022.41	10.63	88.5
03/10/2011 18:38:10.000'	-0.61	27.39	77.5	1022.41	10.70	89.2
03/10/2011 19:38:10.000'	-0.58	27.40	77.5	1022.42	10.70	89.2
03/10/2011 20:38:10.000'	-0.58	27.40	77.5	1022.42	10.72	89.3
03/10/2011 21:38:10.000'	-0.58	27.41	77.5	1022.42	10.72	89.3
03/10/2011 22:38:10.000'	-0.58	27.40	77.5	1022.42	10.73	89.4
03/10/2011 23:38:10.000'	-0.58	27.41	77.5	1022.42	10.70	89.2
04/10/2011 00:38:10.000'	-0.58	27.41	77.5	1022.43	10.70	89.2
04/10/2011 01:38:10.000'	-0.58	27.41	77.5	1022.43	10.70	89.2
04/10/2011 02:38:10.000'	-0.58	27.41	77.5	1022.43	10.69	89.1
04/10/2011 03:38:10.000'	-0.58	27.40	77.5	1022.42	10.68	89.0
04/10/2011 04:38:10.000'	-0.59	27.40	77.5	1022.42	10.69	89.1
04/10/2011 05:38:10.000'	-0.61	27.40	77.5	1022.42	10.64	88.6

Table A3-3.6. Temperature, Salinity, Density, and Dissolved Oxygen Time Series Data at 77 m Depth in Roberts Bay, Doris North Project, July-October 2011

Date/Time	Temperature (°C)	Salinity	Depth (m)	Density (kg/m ³)	Dissolved Oxygen (mg/L)	Oxygen Saturation (%)
04/10/2011 06:38:10.000'	-0.61	27.40	77.6	1022.42	10.60	88.3
04/10/2011 07:38:10.000'	-0.61	27.40	77.6	1022.42	10.60	88.3
04/10/2011 08:38:10.000'	-0.62	27.40	77.7	1022.42	10.60	88.2
04/10/2011 09:38:10.000'	-0.62	27.40	77.7	1022.42	10.56	87.9
04/10/2011 10:38:10.000'	-0.61	27.40	77.7	1022.42	10.56	87.9

3-3.2 ROBERTS BAY CURRENTS DATA

This section provides a general overview of the current dataset collected within Roberts Bay during the 2011 sampling season. Representative data bins were selected from each of the ADCP datasets for analysis and plotting. In the case of the 38 m deep site, three depth levels were chosen for processing. In the case of the 85 m deep site, four levels were chosen.

3-3.2.1 QA/QC Procedures

The current meters were configured with the settings summarized in Table A3-3.7.

Due to the proximity of the earth's magnetic pole, the magnetic field vector actually dips at an angle of approximately 85° from horizontal, reducing the horizontal component to only 4,924 nT. This is calculated from a Canadian government magnetic field model (http://geomag.nrcan.gc.ca/apps/mfcal_e.php) that does not account for magnetic storms and nearby anomalies. Due to the weak horizontal component of the magnetic field, the fluxgate compass in the ADCP is not as reliable as at more southerly latitudes. Therefore, the ADCP was carefully calibrated on site to best compensate for the effect of the battery and other nearby disturbances.

During the ice-covered winter months, it was possible to bypass the ADCP's compass altogether. This involved recording directions in instrument XYZ coordinates and subsequently re-orienting the ADCP from the surface. The directions could then be modified during processing. This was the procedure undertaken for the initial ice-based deployment, where an aluminum mast was used to suspend the ADCP just beneath the ice, looking downward. The mast/ADCP heading was determined after the ADCP was deployed.

Table A3-3.7. ADCP Configurations

February 10 - April 21 Deployment at 38 m Site and April 21 - May 22 Deployment at 85 m Site	
ADCP Frequency (kHz)	300
ADCP Serial Number	11162
Vertical Resolution / Bin Size (m)	3
Ensemble Interval (min)	20
Number of Pings per Ensemble	380
May 22 - July 17 Deployment	
ADCP Frequency (kHz)	300
ADCP Serial Number	11162
Vertical Resolution / Bin Size (m)	3
Ensemble Interval (min)	30
Number of Pings per Ensemble	370
July 17 - October 4 Deployment: ADCP	
ADCP Frequency (kHz)	600
ADCP Serial Number	7806
Vertical Resolution / Bin Size (m)	2
Ensemble Interval (min)	10
Number of Pings per Ensemble	108

Table A3-3.7. ADCP Configurations (continued)

July 17 - October 4 Deployment: AQD	
AQD Frequency (kHz)	600
AQD Serial Number	0643
Vertical Resolution / Bin Size (m)	2
Ensemble Interval (min)	20

For the February 10 to April 19 period when the ADCP was at the shallow 38 m depth site, the bearing of the pole and the ADCP beam #3 was 13° true. This was determined using two methods:

1. Using a Furuno SC-30 satellite compass. The SC-30 used two DGPS units to measure heading in degrees true. The ADCP beam #3 heading using the SC-30 was 11.8° true ($\pm 2^\circ$). This was corroborated by the second method:
2. Two GPS positions 50 m apart along the axis of the pole gave a heading of 13.9° true ($\pm 2^\circ$).

When the ADCP was re-located on April 19-21 to the deeper site (again suspended from the ice), the beam #3 heading was 172° true. This was determined using two GPS positions 50 m apart along the axis of the pole.

This method was not possible to use for the open-water deployments, so the internal ADCP compass had to be used with the magnetic declination correction. Table A3-3.8 and Table A3-3.9 list the rotations and magnetic declinations applied to each dataset.

Table A3-3.8. Rotations Applied during Deployments where the ADCP Recorded in XYZ Coordinates, Suspended from the Ice Looking Downward

Date	Water Depth (m)	Rotation
Feb 10 - Feb 22	38	13°
Feb 22 - Apr 16	38	13°
Apr 21 - May 22	85	172°

Table A3-3.9. Magnetic Declination Applied to the Bottom Taut-line Mooring Deployments, where the ADCP was Configured in Geographic Coordinates

Date	Water Depth (m)	Magnetic Declination
May 22 - Jul 17	85	11.93° E
Jul 17 - Oct 04	85	11.93° E

Once the moorings were retrieved and the datasets downloaded, each specific time series data set was subjected to quality control procedures. The steps in the error detection and removal procedures were applied as follows:

1. Plots of all the raw data sets were prepared and reviewed, including the ADCP vertical and error velocities.
2. Values of measured horizontal components of current that had absolute values exceeding 25 cm/s were selected;

3. Values of measured horizontal components of current with accompanying error velocities that exceeded 10 cm/s were selected;
4. Single point 'spikes' in each component of the horizontal velocities were identified. A single point spike consisted of two successive first difference values exceeding 4 cm/s and opposite in sign. A 6 cm/s threshold was used in processing the Aquadopp ADCP dataset, which had a higher standard deviations and consisted of two bins averaged together.
5. 'Double spikes' exceeding a double spike threshold of 5 cm/s (8 cm/s for the Aquadopp) in each component of the horizontal velocities were identified. A double spike consisted of two consecutive points, both of which were either larger or smaller than the preceding and following points by more than the double spike threshold.
6. 'Triple spikes' exceeding a triple spike threshold of 6 cm/s (10 cm/s for the Aquadopp) in each component of the horizontal velocities were identified. A triple spike consisted of three consecutive points that were smaller than the preceding and following points by more than the triple spike threshold, but whose middle points could not change by more than one third of the triple spike threshold from their respective leading neighbours.
7. 'Quadruple spikes' exceeding a quadruple spike threshold of 7 cm/s (12 cm/s for the Aquadopp) in each component of the horizontal velocities were identified. A quadruple spike consisted of four consecutive points which were smaller than the preceding and following points by more than the quadruple spike threshold, but whose middle points could not change by more than one third of the quadruple spike threshold from their respective leading neighbours.
8. For all suspect values found as above in items 2 to 7, the values were replaced by linear interpolation over all individual segments with durations of less than two and a half hours. For longer segments of erroneous or suspect data, the values were replaced with flag values (-9999) and reviewed again in step 9.
9. Plots of the edited data sets (following step 8) were prepared and manually reviewed. Any remaining suspect values were manually edited. These suspect values were generally determined as being anomalous from adjoining values at nearby times or at adjacent bins above and below.

Following quality control, the datasets were converted to true coordinates. During the deployments suspended from the ice, the instrument recorded in XYZ coordinates and a rotation was applied during processing to correct for the ADCP beam #3 heading. The ADCP heading was 13° true at the 38 m site, and 172° true at the 85 m site, when suspended from ice. The taut-line moorings were configured in geographic coordinates, and a magnetic declination of 11.93° E was applied during processing to convert from magnetic to true coordinates.

3-3.2.2 February 10 - April 16 Deployment

Current bins corresponding to 9 m, 21 m, and 30 m depths were selected for processing.

The number of points edited using the quality control procedures described in Section 3-3.2.1 is listed in Table A3-3.10 and Table A3-3.11. A time series plot of each velocity component at each depth is shown in Figure A3-3.3 through Figure A3-3.14.

Summary statistics computed for each depth are shown in Table A3-3.12 and Table A3-3.13. Speed and direction joint frequency tables are presented in Table A3-3.14 through Table A3-3.19 and are further illustrated with compass plots in Figure A3-3.16 through Figure A3-3.20. The color of each segment in the compass plots denotes its speed interval. The radial length of each segment denotes the proportion of

measurements within the illustrated speed and direction interval. The maximum and mean are illustrated through the second radial scale as the red and light green lines respectively for clear viewing.

Measurement Statistics

Table A3-3.10. Summary of Points Edited at each Depth for February 10-22 at the 38 m Site

	Veast			Vnorth		
	9 m	21 m	30 m	9 m	21 m	30 m
Out of Range	0	0	0	0	0	0
Single Spike	0	0	0	0	0	0
Double Spike	0	0	0	0	0	0
Triple Spike	0	0	0	0	0	0
Quad. Spike	0	0	0	0	0	0
Manual Edit	0	0	0	0	0	0
Verror >10	0	0	0	0	0	0
% Edit	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
Total Pts	847			847		

Table A3-3.11. Summary of Points Edited at each Depth for February 22 - April 16 at the 38 m Site

	Veast			Vnorth		
	9 m	21 m	30 m	9 m	21 m	30 m
Out of Range	0	0	0	0	0	0
Single Spike	0	0	0	0	0	0
Double Spike	0	0	0	0	0	0
Triple Spike	0	0	0	0	0	0
Quad. Spike	0	0	0	0	0	0
Manual Edit	0	0	1	0	0	0
Verror >10	0	0	0	0	0	0
% Edit	0.00 %	0.00 %	0.03 %	0.00 %	0.00 %	0.00 %
Total Pts	3,827			3,827		

Current Time-Series

Figure A3-3.3. Time-series Plot of the East Velocity Component at 9 m Depth for February 10 - 22 at the 38 m Site

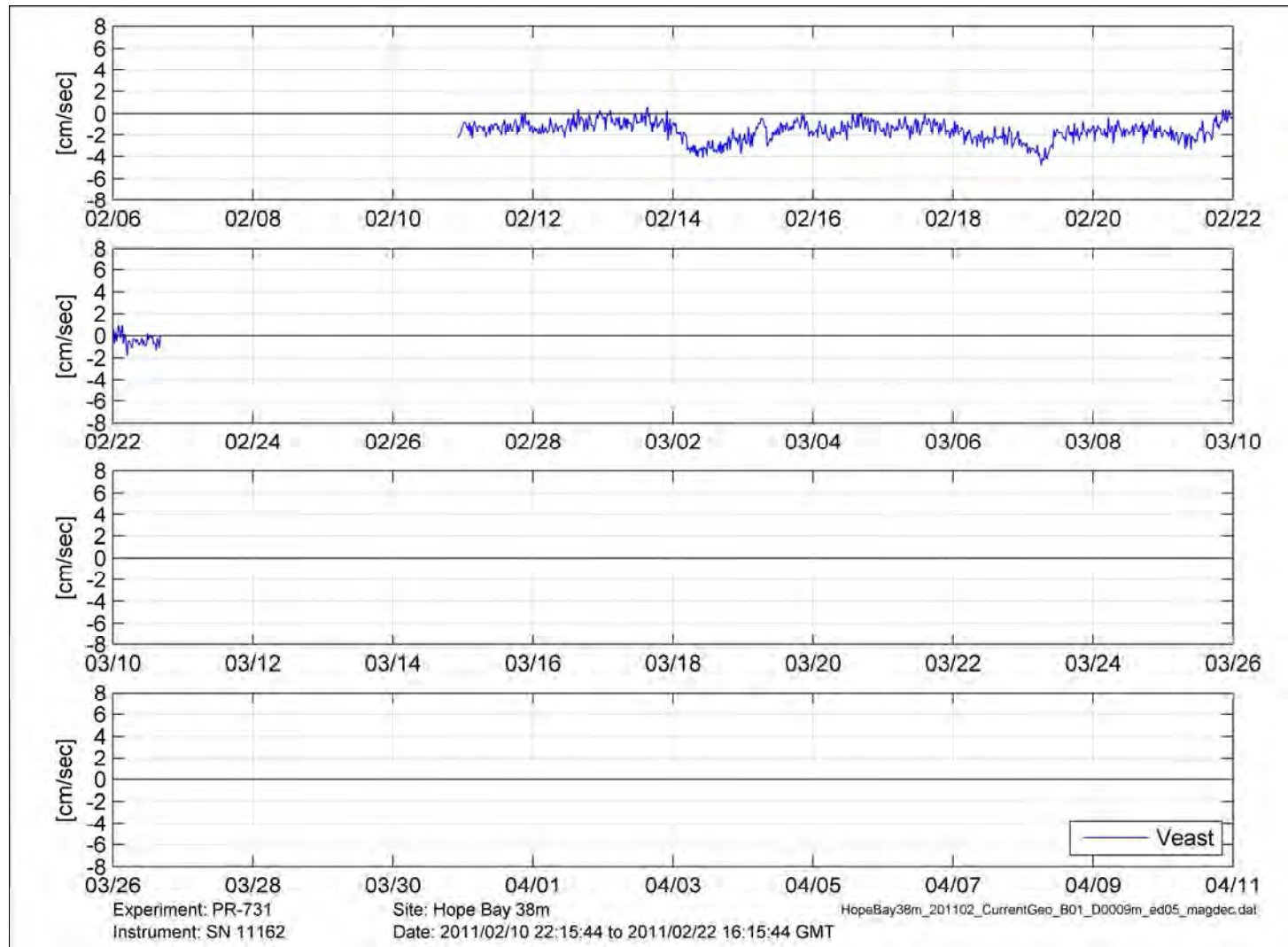


Figure A3-3.4. Time-series Plot of the North Velocity Component at 9 m Depth for February 10 - 22 at the 38 m Site

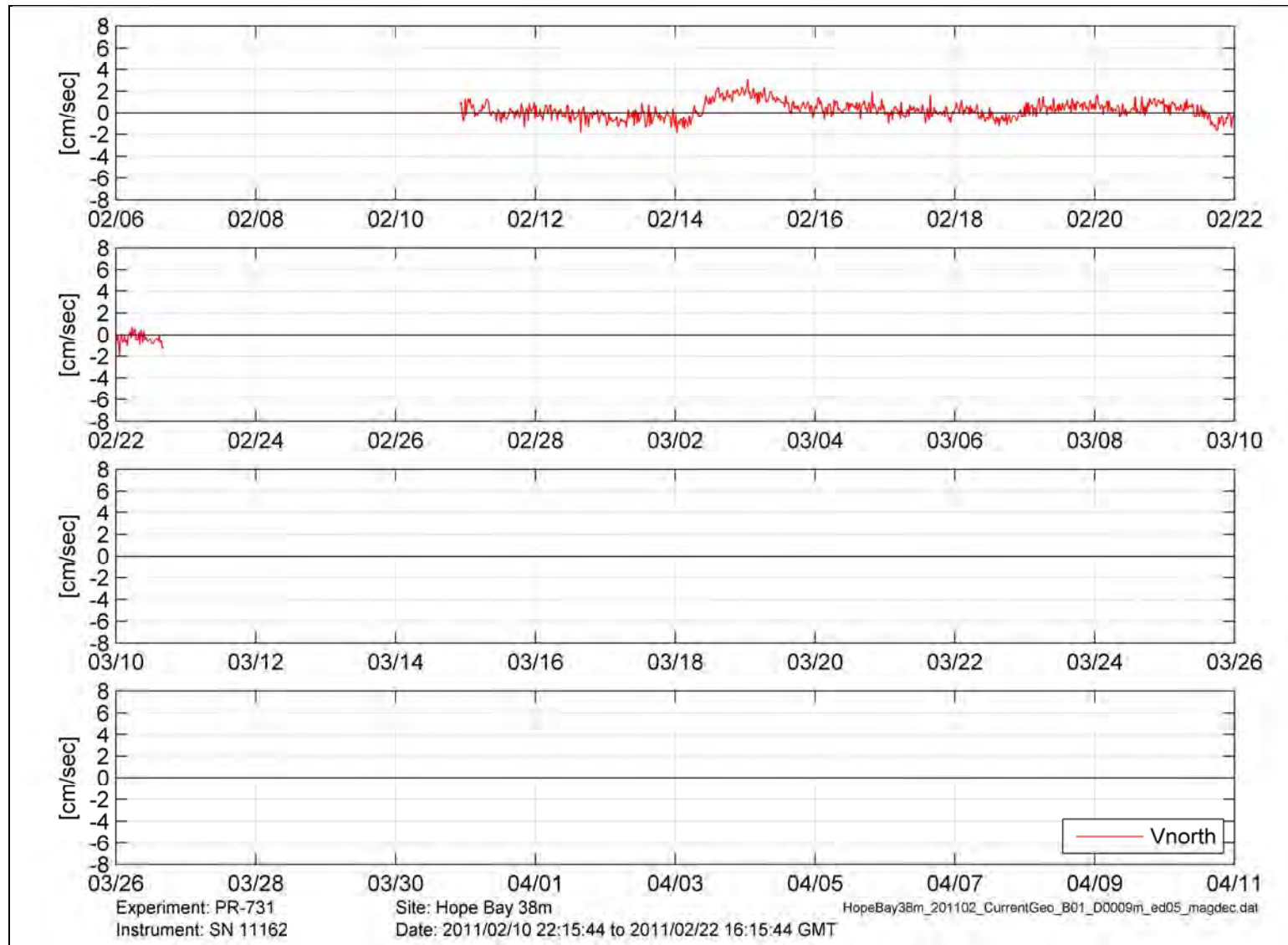


Figure A3-3.5. Time-series Plot of the East Velocity Component at 21 m depth for February 10 - 22 at the 38 m Site

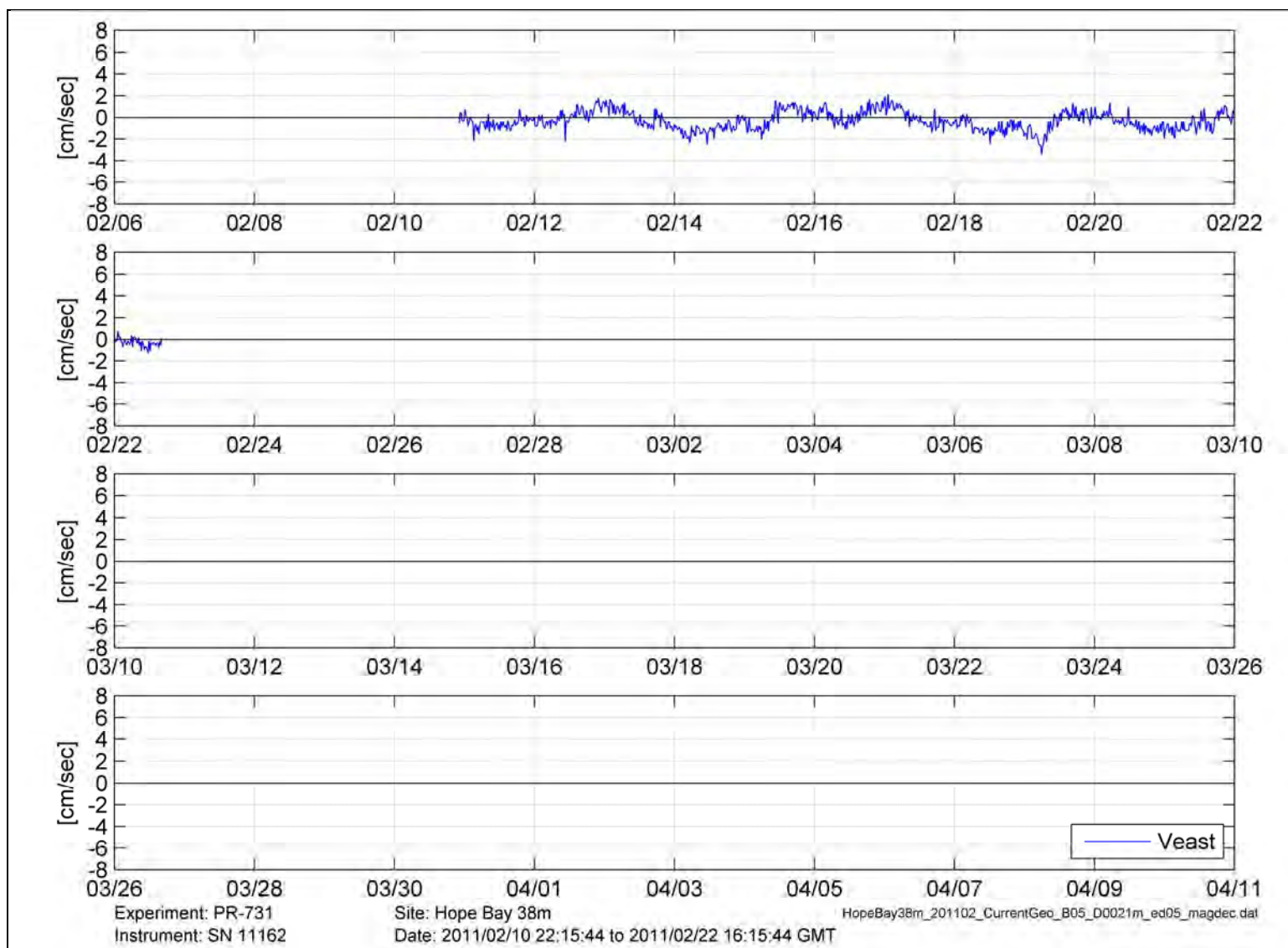


Figure A3-3.6. Time-series Plot of the North Velocity Component at 21 m Depth for February 10 - 22 at the 38 m Site

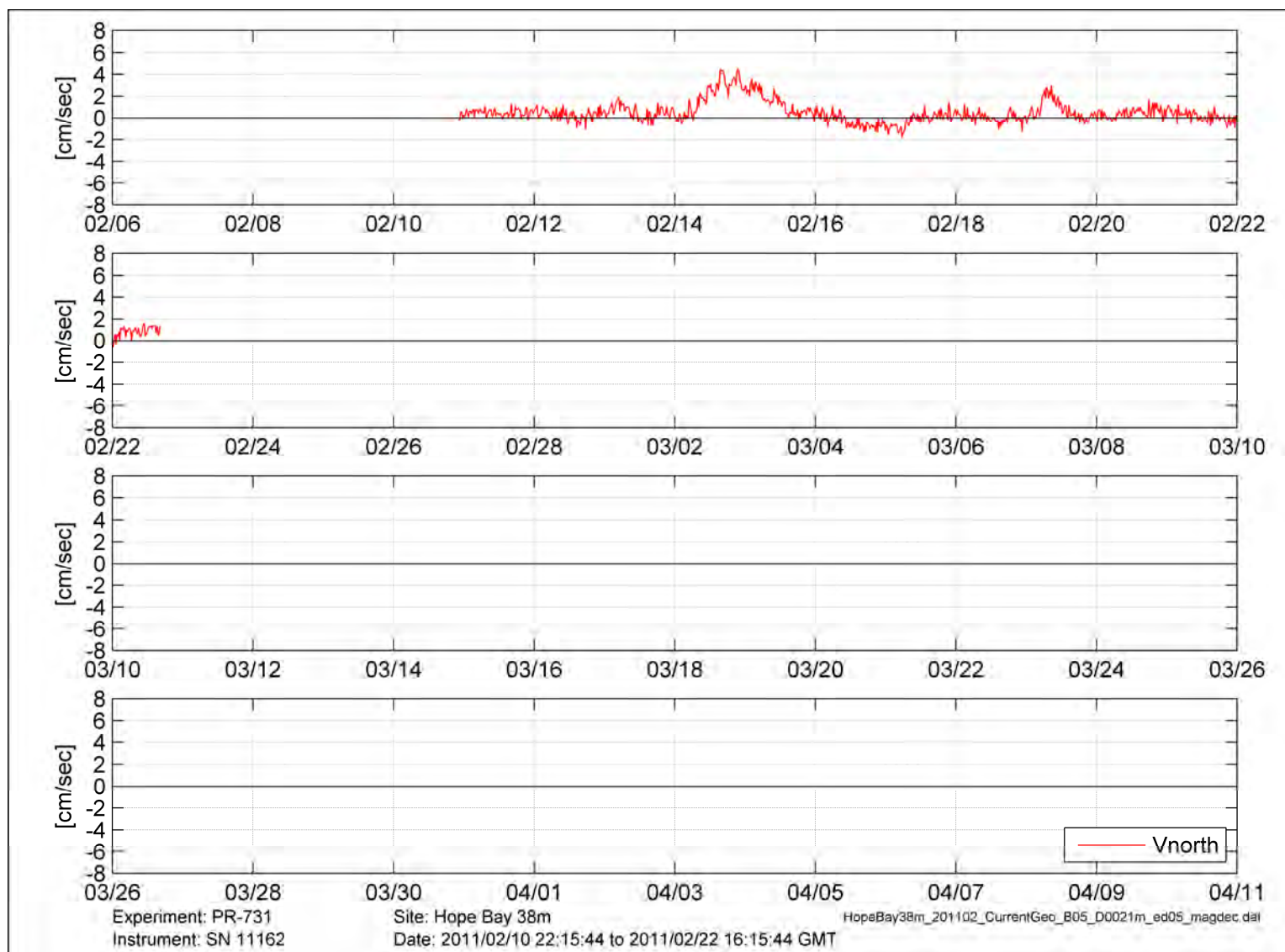


Figure A3-3.7. Time-series Plot of the East Velocity Component at 30 m Depth for February 10 - 22 at the 38 m Site

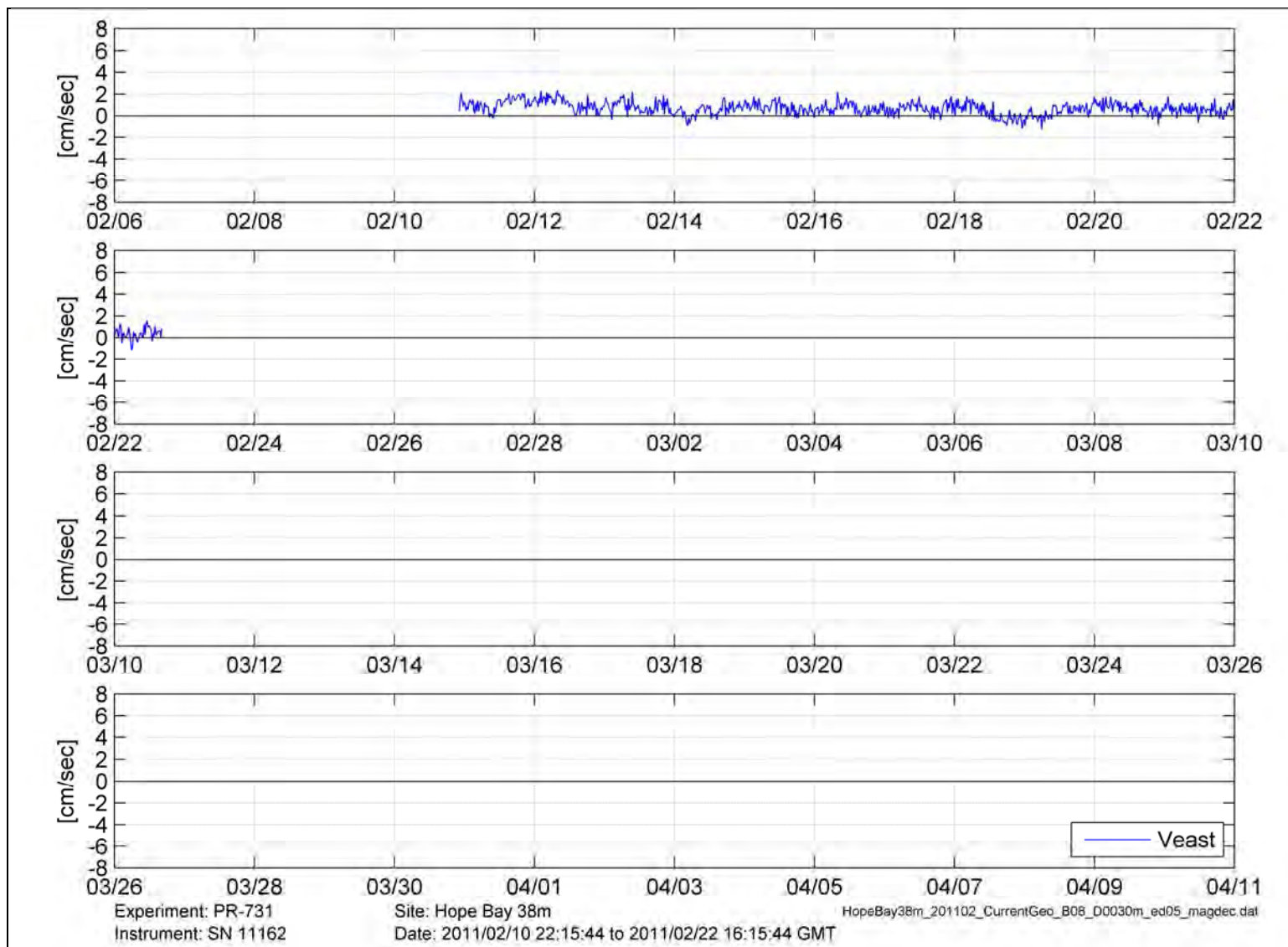


Figure A3-3.8. Time-series Plot of the North Velocity Component at 30 m Depth for February 10 - 22 at the 38 m Site

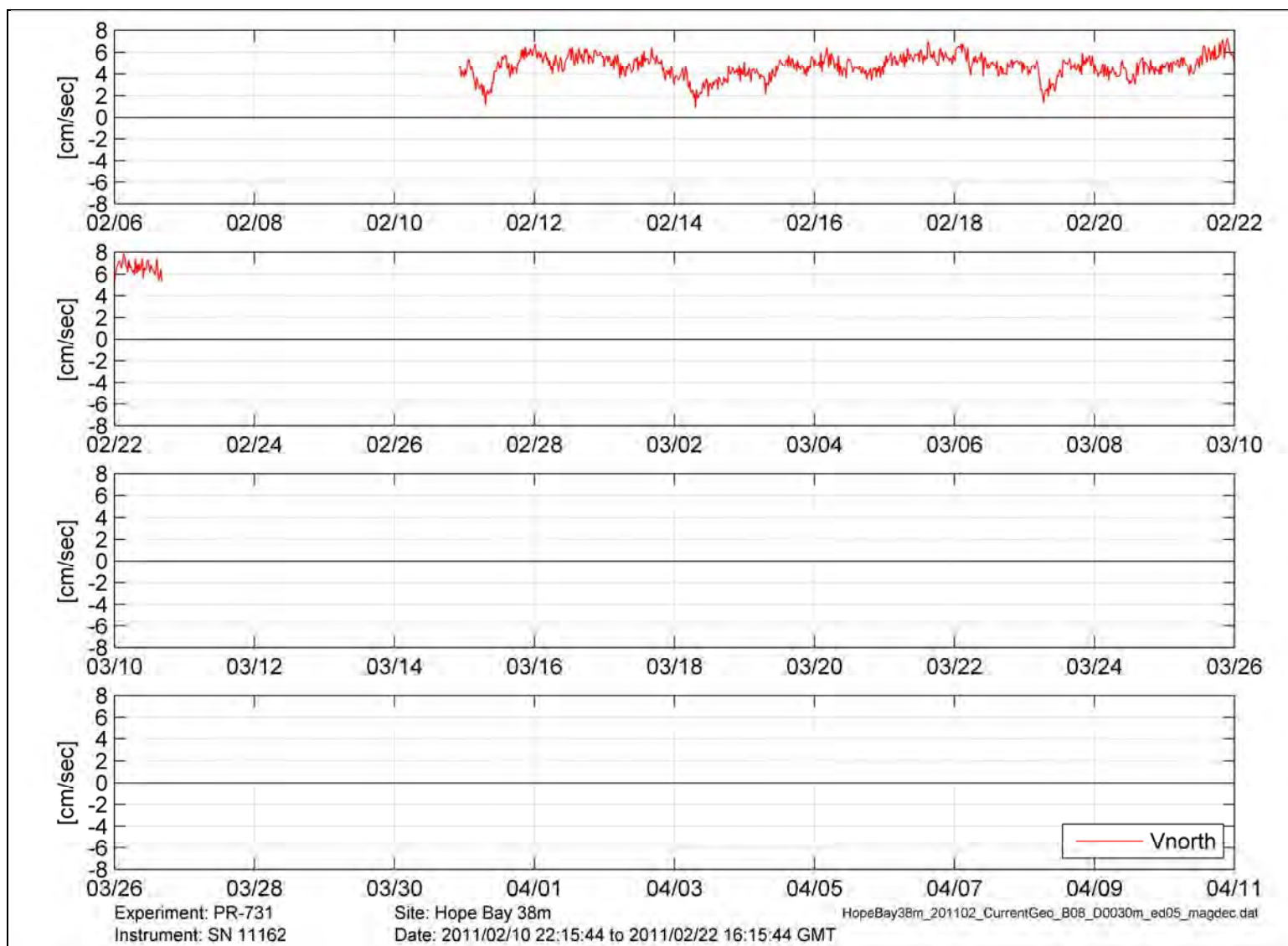


Figure A3-3.9. Time-series Plot of the East Velocity Component at 9 m Depth for February 22 - April 16 at the 38 m Site

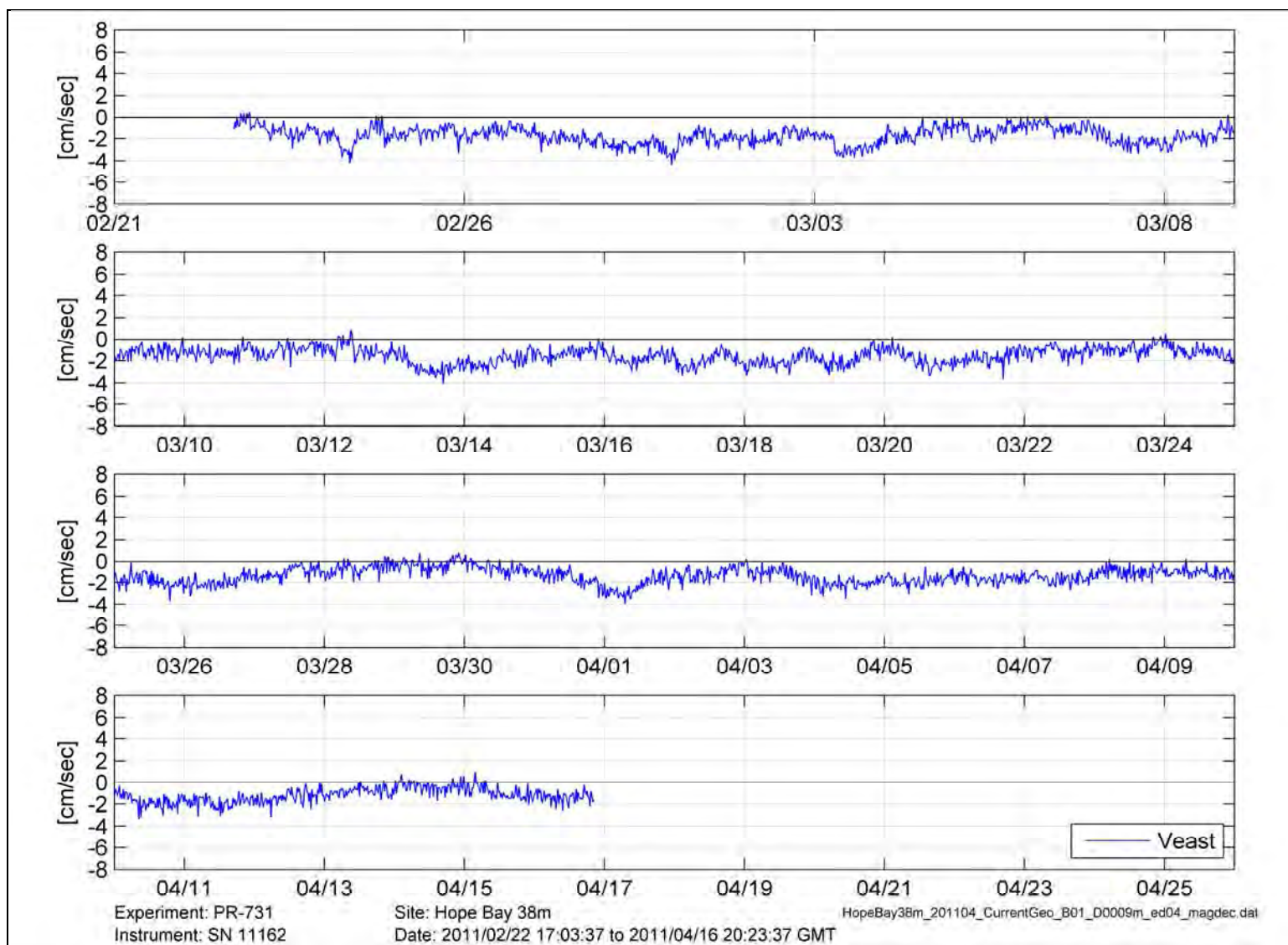


Figure A3-3.10. Time-series Plot of the North Velocity Component at 9 m Depth for February 22 - April 16 at the 38 m Site

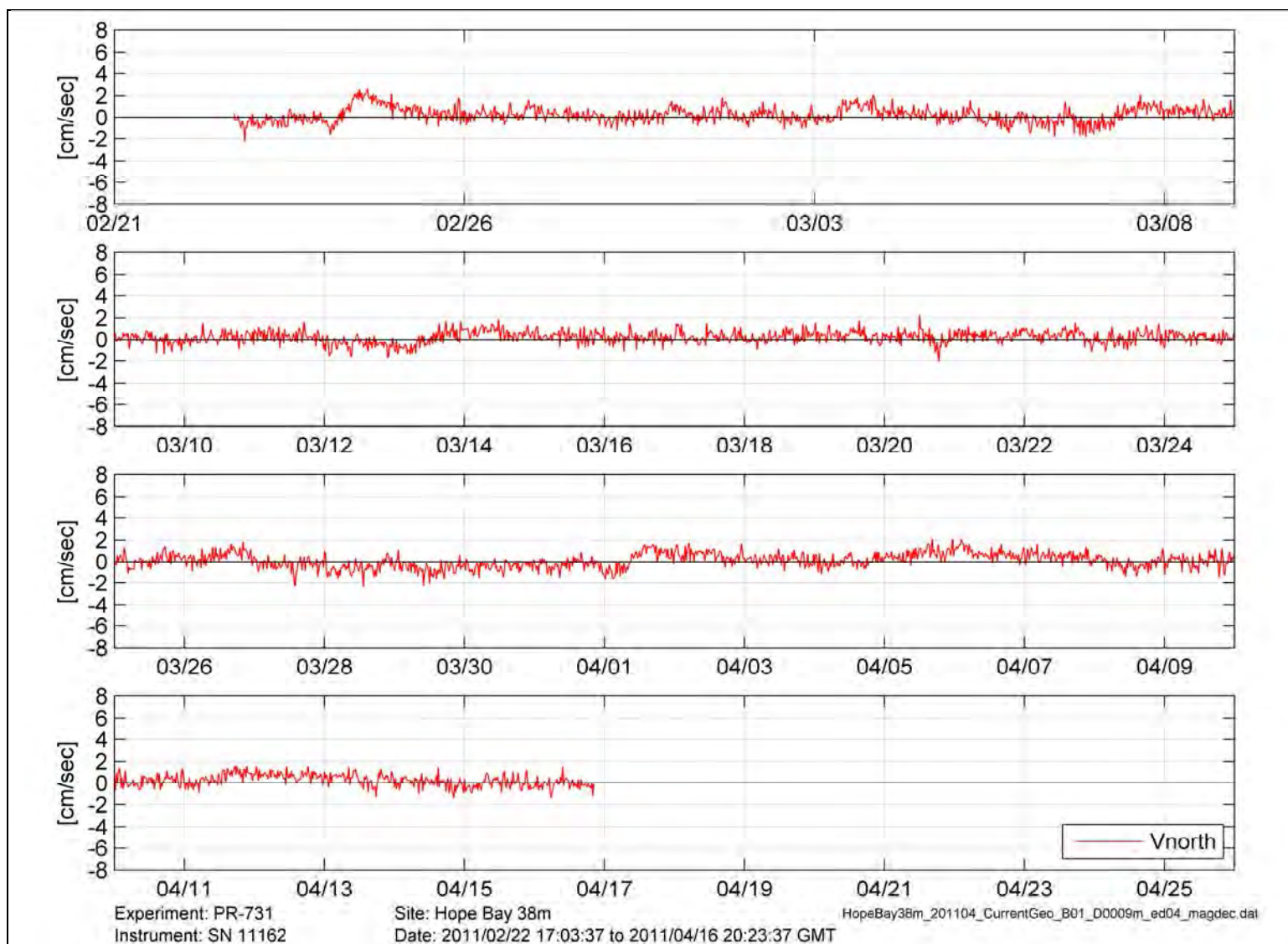


Figure A3-3.11. Time-series Plot of the East Velocity Component at 21 m Depth for February 22 - April 16 at the 38 m Site

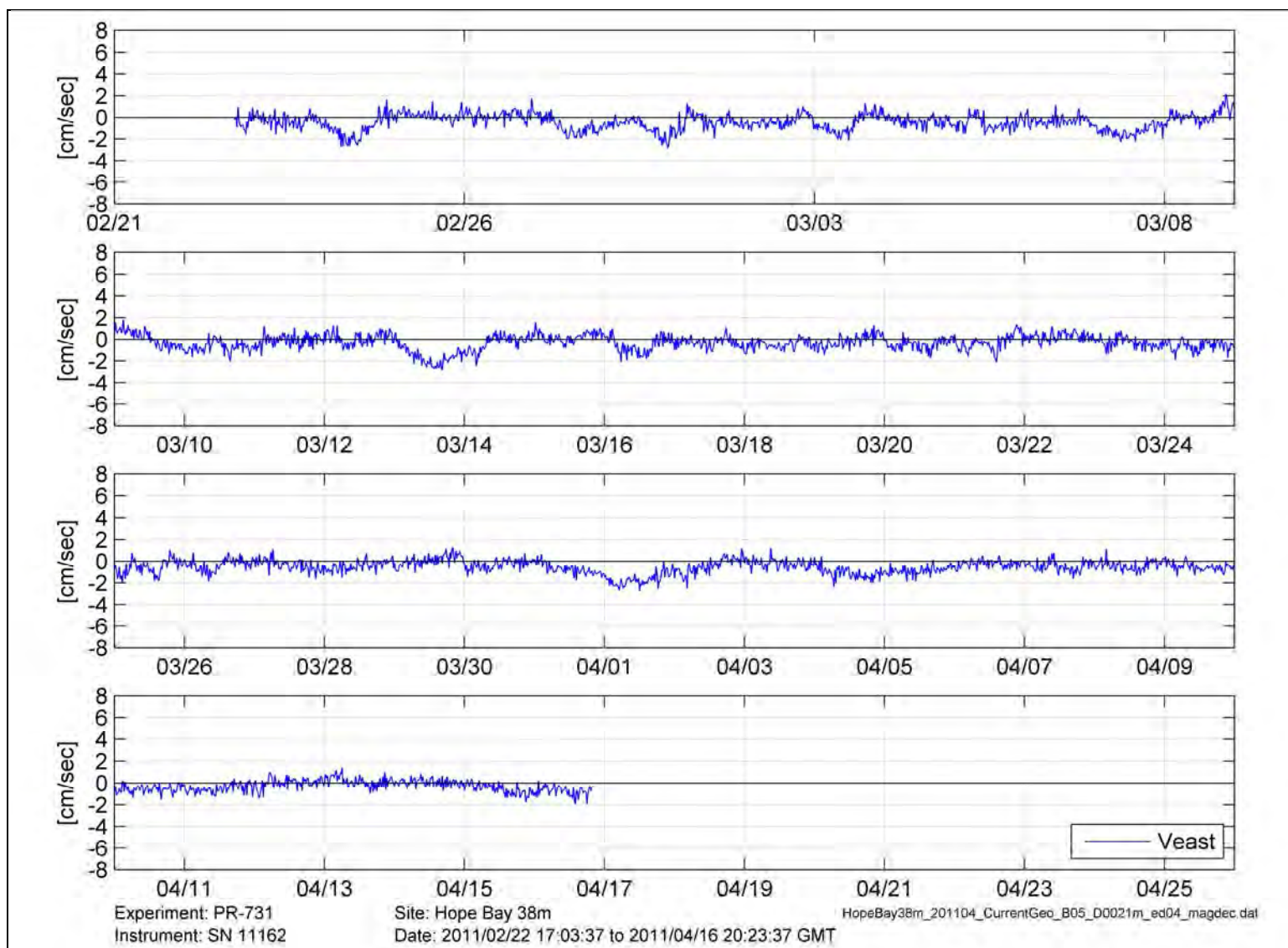


Figure A3-3.12. Time-series Plot of the North Velocity Component at 21 m Depth for February 22 - April 16 at the 38 m Site

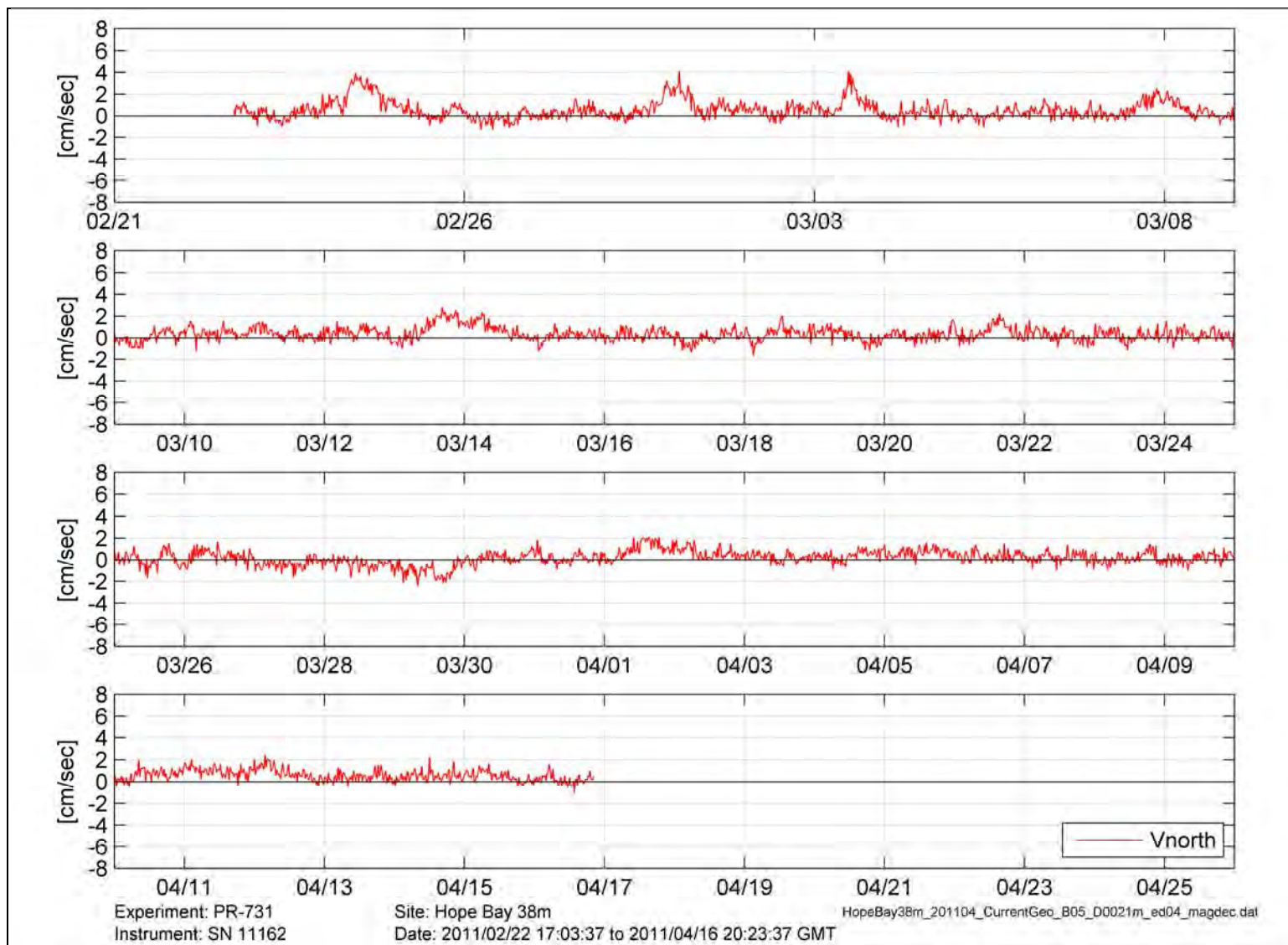


Figure A3-3.13. Time-series Plot of the East Velocity Component at 30 m Depth for February 22 - April 16 at the 38 m Site

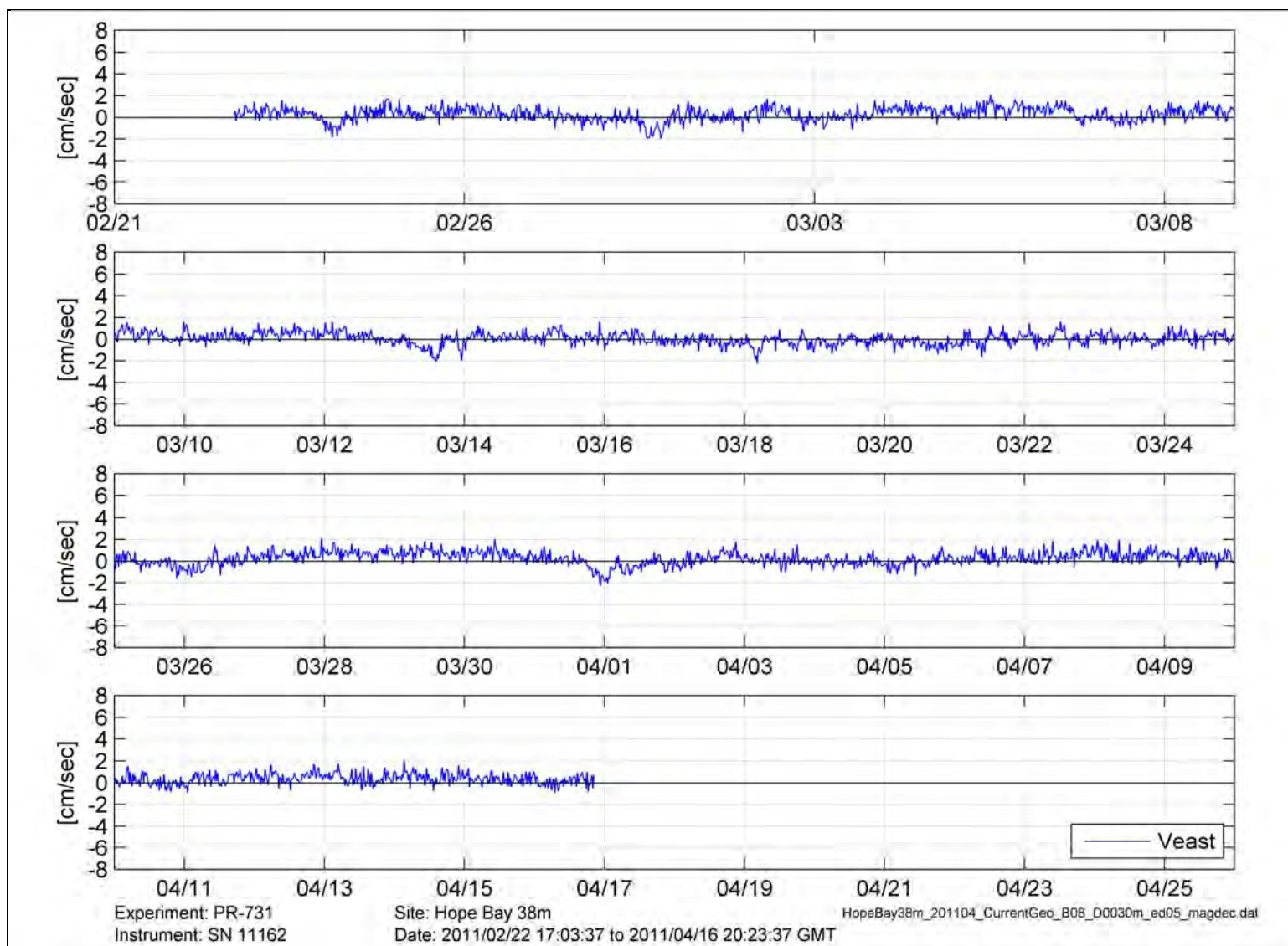


Figure A3-3.14. Time-series Plot of the North Velocity Component at 30 m Depth for February 22 - April 16 at the 38 m Site

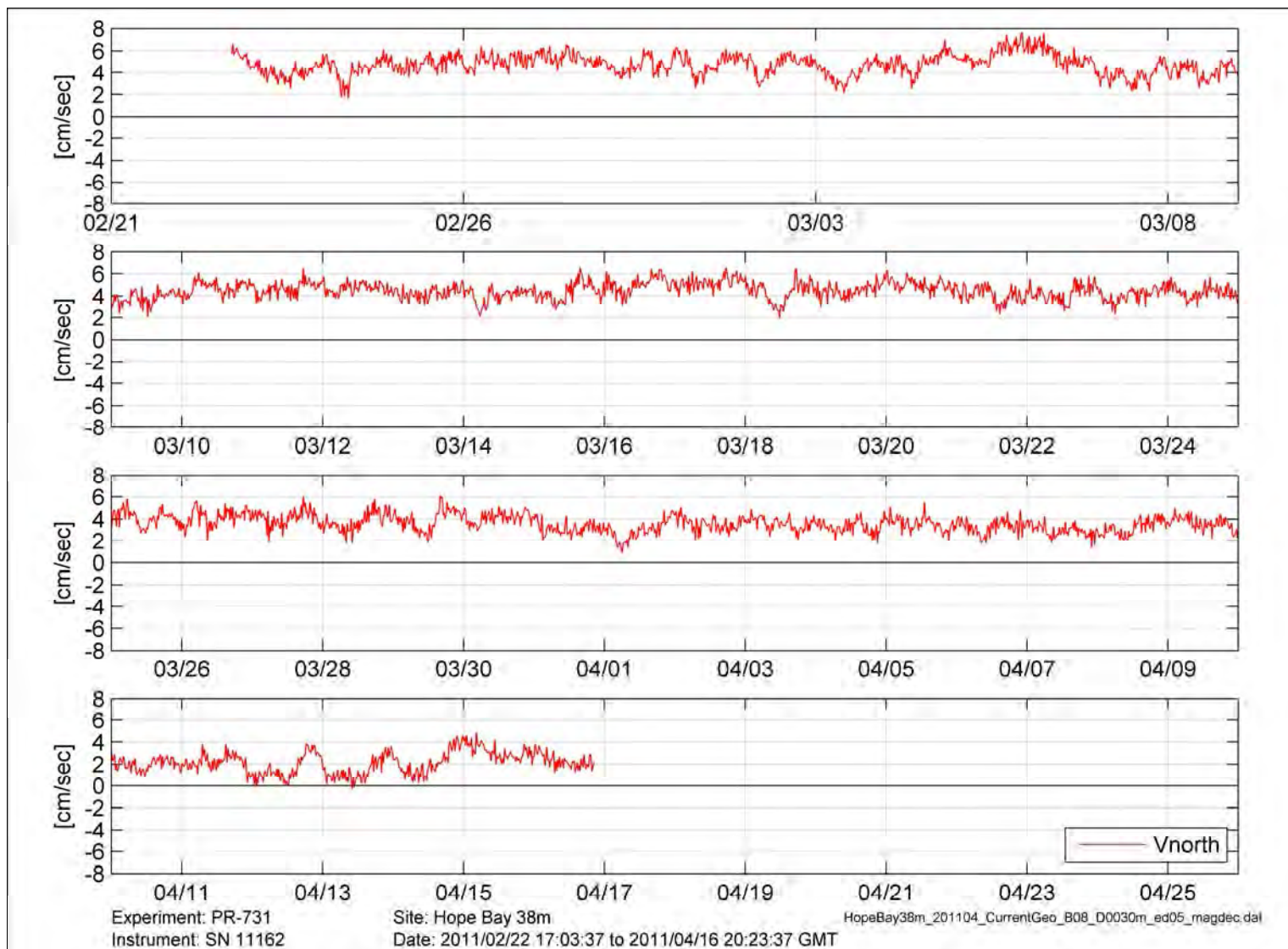


Table A3-3.12. Summary Statistics for Data Measured at each Depth for February 10 - 22 at the 38 m Site

Depth (m)		Min	1%	5%	25%	50%	Mean	75%	95%	99%	Std	Max	# Valid	Total #
9	Veast	-4.78	-4.09	-3.32	-2.14	-1.48	-1.57	-0.91	-0.13	0.38	0.94	0.96	847	847
	Vnorth	-1.93	-1.41	-1.03	-0.34	0.18	0.20	0.71	1.58	2.17	0.78	3.10		
	Speed	0.14	0.30	0.58	1.14	1.68	1.80	2.26	3.51	4.20	0.88	5.02		
21	Veast	-3.41	-2.38	-1.63	-0.95	-0.40	-0.34	0.26	1.16	1.54	0.86	2.13	847	847
	Vnorth	-1.83	-1.30	-0.76	-0.08	0.37	0.51	0.87	2.59	3.67	0.97	4.47		
	Speed	0.00	0.14	0.28	0.64	1.02	1.19	1.49	2.96	3.94	0.79	4.56		
30	Veast	-1.24	-0.88	-0.35	0.25	0.68	0.66	1.08	1.66	2.06	0.61	2.34	847	847
	Vnorth	0.94	1.93	2.74	4.14	4.84	4.79	5.49	6.51	7.27	1.09	7.89		
	Speed	1.06	2.01	2.85	4.26	4.91	4.88	5.60	6.55	7.33	1.08	7.91		

Table A3-3.13. Summary Statistics for Data Measured at each Depth for February 22 - April 16 at the 38 m Site

Depth (m)		Min	1%	5%	25%	50%	Mean	75%	95%	99%	Std	Max	# Valid	Total #
9	Veast	-4.37	-3.36	-2.86	-2.07	-1.50	-1.52	-0.97	-0.23	0.25	0.79	0.97	3,827	3,827
	Vnorth	-2.36	-1.45	-0.94	-0.27	0.20	0.17	0.62	1.24	1.68	0.67	2.63		
	Speed	0.00	0.22	0.57	1.17	1.65	1.69	2.19	2.98	3.49	0.73	4.63		
21	Veast	-2.84	-2.31	-1.66	-0.86	-0.41	-0.43	0.05	0.70	1.10	0.71	2.16	3,827	3,827
	Vnorth	-2.42	-1.30	-0.71	-0.07	0.32	0.37	0.75	1.63	2.59	0.73	4.09		
	Speed	0.00	0.10	0.22	0.54	0.85	0.98	1.27	2.16	3.06	0.62	4.61		
30	Veast	-2.28	-1.42	-0.86	-0.18	0.23	0.21	0.64	1.16	1.56	0.63	2.09	3,827	3,827
	Vnorth	-0.29	0.64	1.73	3.21	4.07	3.96	4.80	5.76	6.42	1.21	7.64		
	Speed	0.14	0.91	1.84	3.28	4.12	4.02	4.83	5.79	6.50	1.18	7.72		

Joint Frequency Tab

Table A3-3.14. Joint Frequency Table for Data Measured at 9 m Depth for February 10 - 22 at the 38 m Site

Location: Hope Bay 38m
Instrument: SN 11162
For period: 2011/02/10 22:15:44 to 2011/02/22 16:15:44
Sample interval: 20 min

			Speed (cm/s)							Row Total (%)
			0.0 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	
Direction (deg)										
11.25	33.75	NNE	0.35							0.35
33.75	56.25	NE	0.12							0.12
56.25	78.75	ENE								0.00
78.75	101.25	E	0.12							0.12
101.25	123.75	ESE	0.12							0.12
123.75	146.25	SE	0.47	0.12						0.59
146.25	168.75	SSE	0.59	0.35						0.94
168.75	191.25	S	0.83	1.06						1.89
191.25	213.75	SSW	2.01	1.65	0.24					3.90
213.75	236.25	SW	1.06	3.66	0.35					5.08
236.25	258.75	WSW	3.78	6.26	4.49	0.47				14.99
258.75	281.25	W	2.24	14.05	8.26	3.78	0.83			29.16
281.25	303.75	WNW	3.31	12.63	7.67	4.25	0.83	0.12		28.81
303.75	326.25	NW	1.42	6.38	1.77	1.65	0.24			11.45
326.25	348.75	NNW	0.71	0.83	0.35					1.89
348.75	11.25	N	0.59							0.59
Column Total (%)			17.71	46.99	23.14	10.15	1.89	0.12	0.00	

Filename: HopeBay38m_201102_CurrentGeo_B01_D0009m_ed05_magdec.dat
Max Speed: 5.02 cm/s # non-flagged records: 847
Mean Speed: 1.80 cm/s # flagged records: 0
Vector-averaged Speed: 1.58 cm/s at 277.29 deg

Table A3-3.15. Joint Frequency Table for Data Measured at 21 m Depth for February 10 - 22 at the 38 m Site

Location: Hope Bay 38m
Instrument: SN 11162
For period: 2011/02/10 22:15:44 to 2011/02/22 16:15:44
Sample interval: 20 min

			Speed (cm/s)							Row Total (%)
			0.0 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	
Direction (deg)										
11.25	33.75	NNE	3.78	2.48	0.24					6.49
33.75	56.25	NE	2.13	2.13	0.24					4.49
56.25	78.75	ENE	2.24	2.60	0.12					4.96
78.75	101.25	E	2.48	0.94						3.42
101.25	123.75	ESE	3.19	2.01	0.24					5.43
123.75	146.25	SE	1.77	1.65	0.12					3.54
146.25	168.75	SSE	1.65	0.94	0.12					2.72
168.75	191.25	S	0.71	0.12						0.83
191.25	213.75	SSW	1.53	0.47						2.01
213.75	236.25	SW	0.94	0.59						1.53
236.25	258.75	WSW	3.90	2.83	0.12					6.85
258.75	281.25	W	3.66	5.55	0.47					9.68
281.25	303.75	WNW	5.90	7.08	0.83		0.12			13.93
303.75	326.25	NW	4.96	5.90	1.53	0.47				12.87
326.25	348.75	NNW	5.19	4.37	2.36	2.83	0.47			15.23
348.75	11.25	N	2.72	1.65	0.83	0.47	0.35			6.02
Column Total (%)			46.75	41.32	7.20	3.78	0.94	0.00	0.00	0.00

Filename: HopeBay38m_201102_CurrentGeo_B05_D0021m_ed05_magdec.dat
Max Speed: 4.56 cm/s # non-flagged records: 847
Mean Speed: 1.19 cm/s # flagged records: 0
Vector-averaged Speed: 0.62 cm/s at 326.69 deg

Table A3-3.16. Joint Frequency Table for Data Measured at 30 m Depth for February 10 - 22 at the 38 m Site

Location: Hope Bay 38m
Instrument: SN 11162
For period: 2011/02/10 22:15:44 to 2011/02/22 16:15:44
Sample interval: 20 min

			Speed (cm/s)								Row Total (%)
			0.0 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	
Direction (deg)											
11.25	33.75	NNE		0.12	1.89	4.25	13.11	11.33	2.24	0.24	33.18
33.75	56.25	NE		0.12							0.12
56.25	78.75	ENE									0.00
78.75	101.25	E									0.00
101.25	123.75	ESE									0.00
123.75	146.25	SE									0.00
146.25	168.75	SSE									0.00
168.75	191.25	S									0.00
191.25	213.75	SSW									0.00
213.75	236.25	SW									0.00
236.25	258.75	WSW									0.00
258.75	281.25	W									0.00
281.25	303.75	WNW									0.00
303.75	326.25	NW									0.00
326.25	348.75	NNW		0.12	0.35	0.24	0.47				1.18
348.75	11.25	N		0.47	2.36	7.67	21.61	22.55	9.33	1.53	65.53
Column Total (%)			0.00	0.83	4.60	12.16	35.18	33.88	11.57	1.77	

Filename: HopeBay38m_201102_CurrentGeo_B08_D0030m_ed05_magdec.dat
Max Speed: 7.91 cm/s # non-flagged records: 847
Mean Speed: 4.88 cm/s # flagged records: 0
Vector-averaged Speed: 4.84 cm/s at 7.87 deg

Table A3-3.17. Joint Frequency Table for Data Measured at 9 m Depth for February 22 - April 16 at the 38 m Site

Location: Hope Bay 38m
 Instrument: SN 11162
 For period: 2011/02/22 17:03:37 to 2011/04/16 20:23:37
 Sample interval: 20 min

			Speed (cm/s)							Row Total (%)
			0.0 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	
Direction (deg)										
11.25	33.75	NNE	0.44	0.03						0.47
33.75	56.25	NE	0.13							0.13
56.25	78.75	ENE	0.18							0.18
78.75	101.25	E	0.05							0.05
101.25	123.75	ESE	0.24	0.03						0.26
123.75	146.25	SE	0.18	0.03						0.21
146.25	168.75	SSE	0.52	0.26						0.78
168.75	191.25	S	0.47	0.31	0.08					0.86
191.25	213.75	SSW	1.33	1.38	0.05					2.77
213.75	236.25	SW	1.46	3.14	0.44	0.03				5.07
236.25	258.75	WSW	3.00	8.26	2.77	0.60				14.63
258.75	281.25	W	2.74	15.21	12.65	1.91	0.05			32.56
281.25	303.75	WNW	3.61	14.27	10.30	2.06	0.10			30.34
303.75	326.25	NW	1.86	5.10	1.88	0.21				9.04
326.25	348.75	NNW	0.91	1.02	0.18					2.12
348.75	11.25	N	0.34	0.13	0.05					0.52
Column Total (%)			17.48	49.15	28.40	4.81	0.16	0.00	0.00	0.00

Filename: HopeBay38m_201104_CurrentGeo_B01_D0009m_ed04_magdec.dat
 Max Speed: 4.63 cm/s # non-flagged records: 3827
 Mean Speed: 1.69 cm/s # flagged records: 0
 Vector-averaged Speed: 1.53 cm/s at 276.44 deg

Table A3-3.18. Joint Frequency Table for Data Measured at 21 m Depth for February 22 - April 16 at the 38 m Site

Location: Hope Bay 38m
Instrument: SN 11162
For period: 2011/02/22 17:03:37 to 2011/04/16 20:23:37
Sample interval: 20 min

			Speed (cm/s)							Row Total (%)
			0.0 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	
Direction (deg)										
11.25	33.75	NNE	4.76	1.54	0.18					6.48
33.75	56.25	NE	2.38	0.84	0.03					3.24
56.25	78.75	ENE	3.24	0.52						3.76
78.75	101.25	E	1.57	0.37	0.03					1.96
101.25	123.75	ESE	2.53	0.42						2.95
123.75	146.25	SE	1.38	0.55						1.93
146.25	168.75	SSE	2.17	0.52	0.08					2.77
168.75	191.25	S	1.57	0.65	0.08					2.30
191.25	213.75	SSW	2.98	0.73						3.71
213.75	236.25	SW	2.51	1.02	0.03					3.55
236.25	258.75	WSW	4.29	1.91	0.03					6.22
258.75	281.25	W	4.63	4.49	0.52					9.64
281.25	303.75	WNW	9.67	6.66	1.28	0.03				17.64
303.75	326.25	NW	5.20	6.74	1.72	0.57	0.08			14.32
326.25	348.75	NNW	6.66	3.97	1.18	0.31	0.16			12.28
348.75	11.25	N	3.79	3.00	0.39	0.03	0.03			7.24
Column Total (%)			59.32	33.94	5.54	0.94	0.26	0.00	0.00	0.00

Filename: HopeBay38m_201104_CurrentGeo_B05_D0021m_ed04_magdec.dat
Max Speed: 4.61 cm/s # non-flagged records: 3827
Mean Speed: 0.98 cm/s # flagged records: 0
Vector-averaged Speed: 0.57 cm/s at 310.58 deg

Table A3-3.19. Joint Frequency Table for Data Measured at 30 m Depth for February 22 - April 16 at the 38 m Site

Location: Hope Bay 38m
Instrument: SN 11162
For period: 2011/02/22 17:03:37 to 2011/04/16 20:23:37
Sample interval: 20 min

			Speed (cm/s)							Row Total (%)
			0.0 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	
Direction (deg)										
11.25	33.75	NNE	0.26	1.52	3.84	6.58	4.13	1.25	0.47	18.06
33.75	56.25	NE	0.21	0.78	0.13	0.05				1.18
56.25	78.75	ENE	0.18	0.21	0.03					0.42
78.75	101.25	E	0.03	0.08						0.10
101.25	123.75	ESE	0.03							0.03
123.75	146.25	SE	0.03							0.03
146.25	168.75	SSE								0.00
168.75	191.25	S								0.00
191.25	213.75	SSW								0.00
213.75	236.25	SW								0.00
236.25	258.75	WSW								0.00
258.75	281.25	W	0.03							0.03
281.25	303.75	WNW	0.03							0.03
303.75	326.25	NW	0.05	0.05	0.05	0.05				0.21
326.25	348.75	NNW	0.13	0.55	1.05	1.70	1.83	0.91	0.08	6.25
348.75	11.25	N	0.24	1.62	7.26	18.55	28.35	14.76	2.61	73.69
Column Total (%)			1.20	4.81	12.36	26.94	34.31	16.93	3.16	0.29

Filename: HopeBay38m_201104_CurrentGeo_B08_D0030m_ed05_magdec.dat
Max Speed: 7.72 cm/s # non-flagged records: 3827
Mean Speed: 4.02 cm/s # flagged records: 0
Vector-averaged Speed: 3.96 cm/s at 2.99 deg

Compass Plots

Figure A3-3.15. Compass Plot at 9 m Depth for February 10 - 22 at the 38 m Site

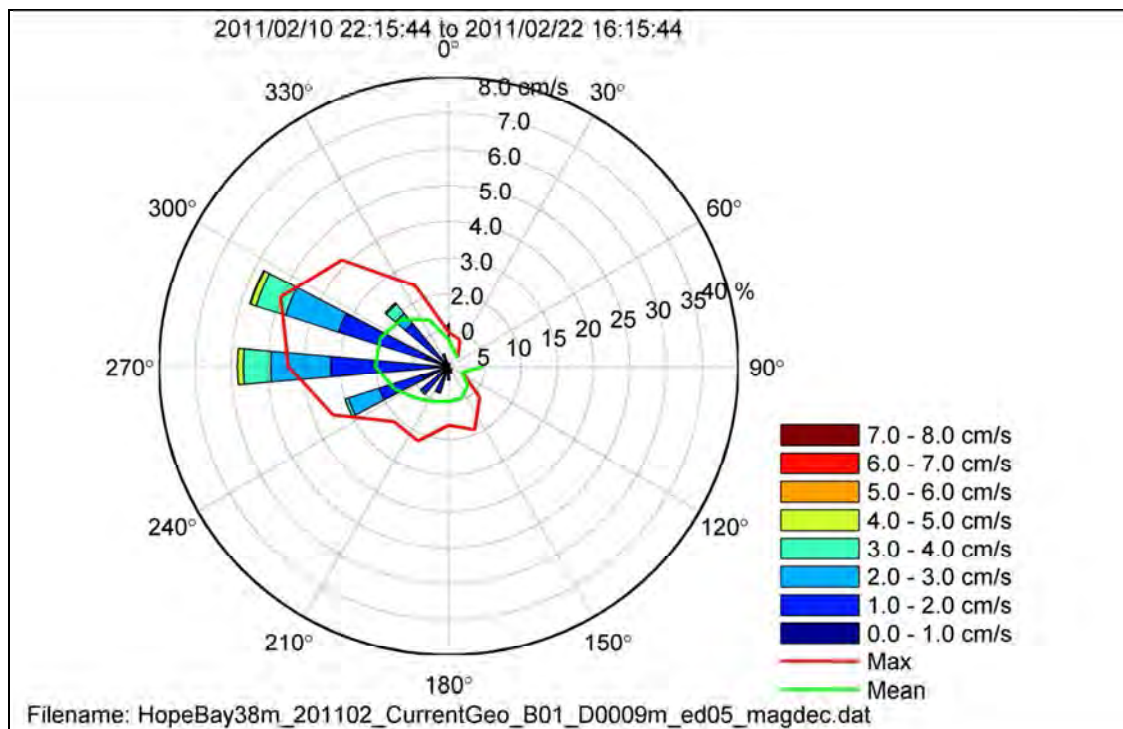


Figure A3-3.16. Compass Plot at 21 m Depth for February 10 - 22 at the 38 m Site

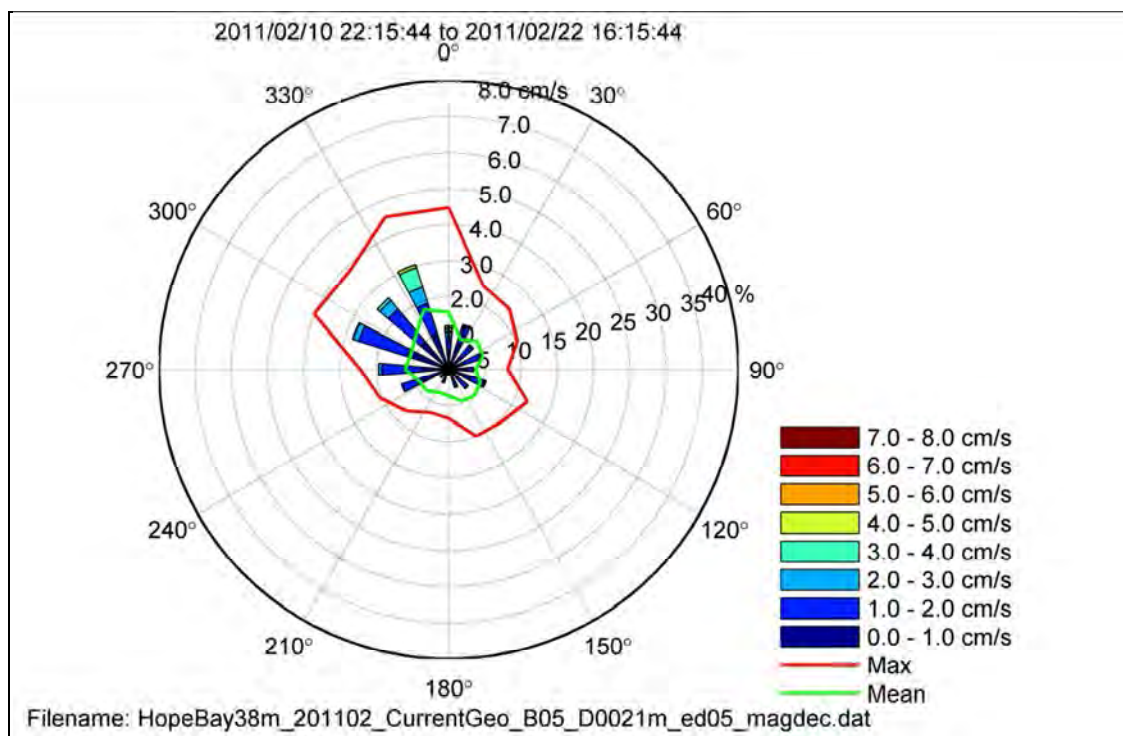


Figure A3-3.17. Compass Plot at 30 m Depth for February 10 - 22 at the 38 m Site

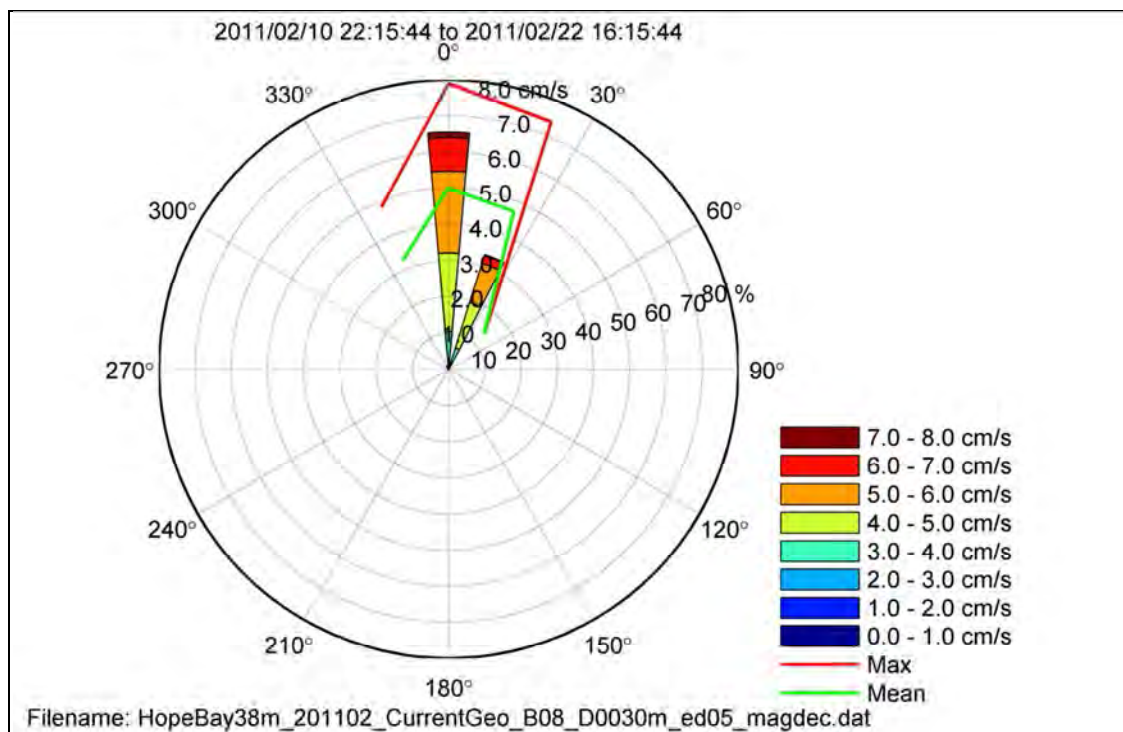


Figure A3-3.18. Compass Plot at 9 m Depth for February 22 - April 16 at the 38 m Site

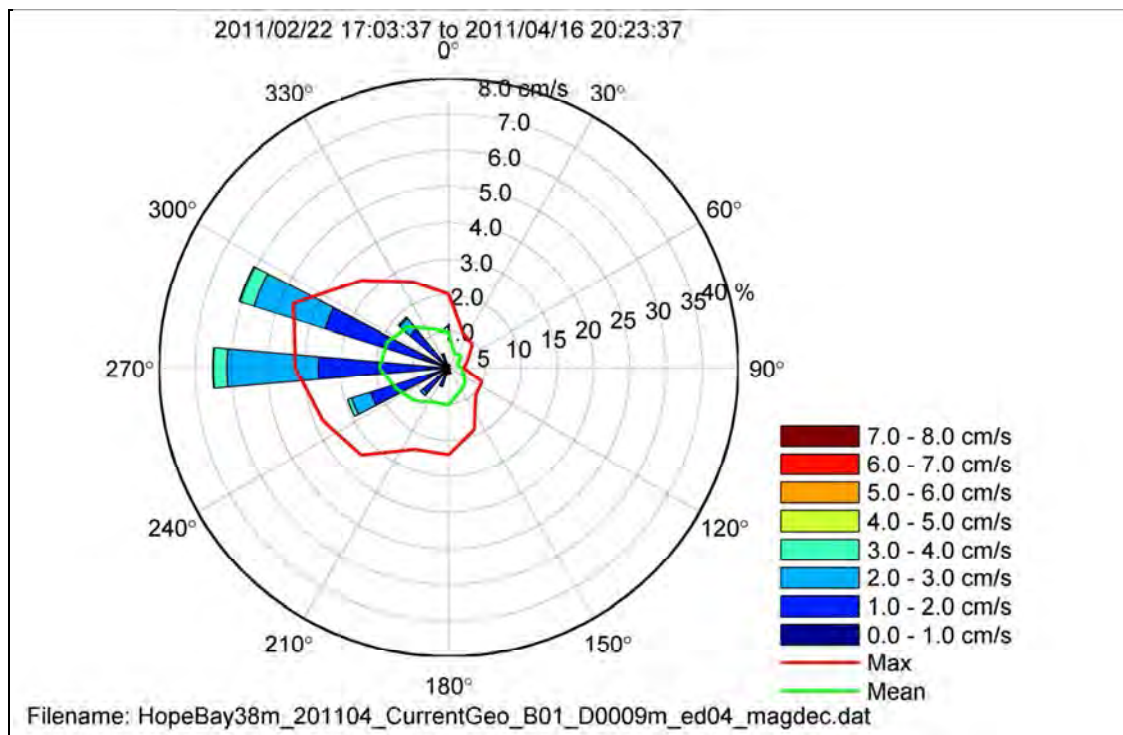


Figure A3-3.19. Compass Plot at 21 m Depth for February 22 - April 16 at the 38 m Site

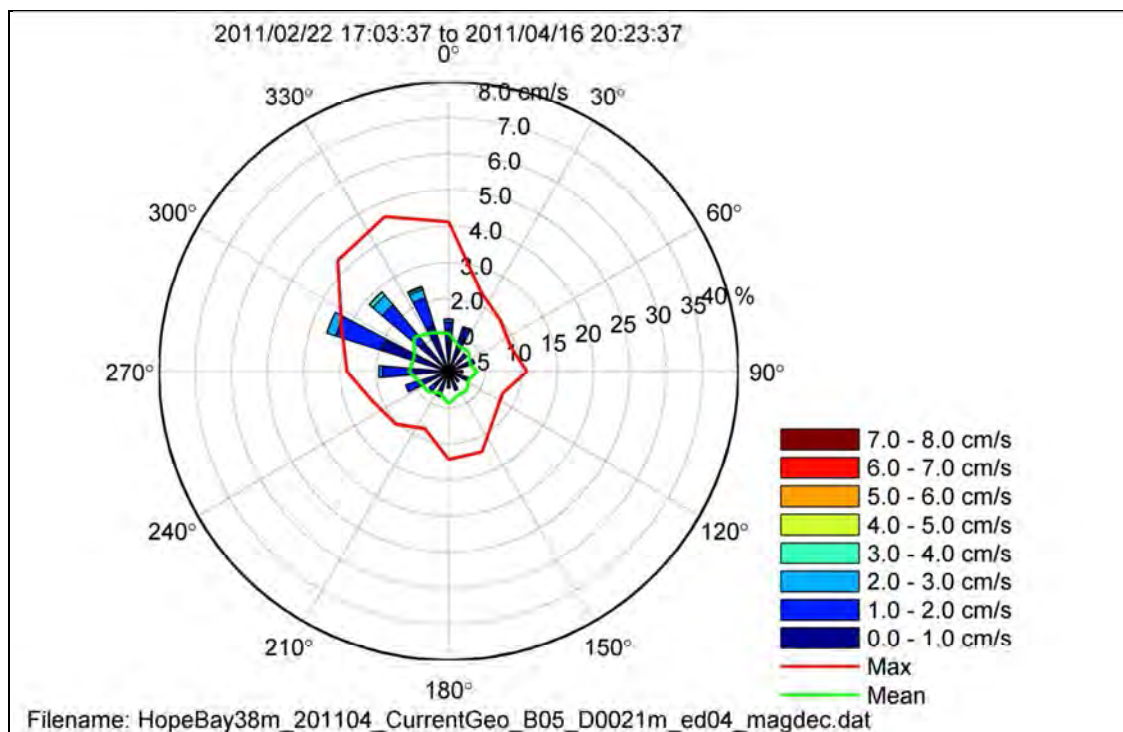
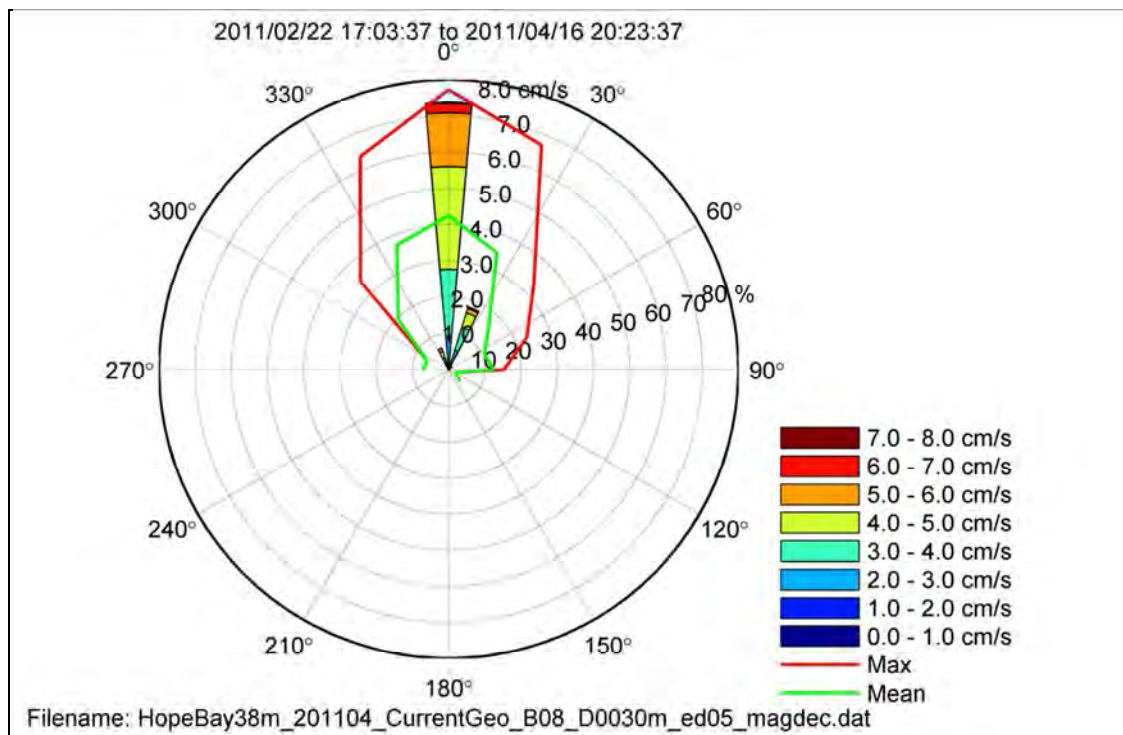


Figure A3-3.20. Compass Plot at 30 m Depth for February 22 - April 16 at the 38 m Site



3-3.2.3 April 21 - May 11 Deployment

Current bins corresponding to 12 m, 36 m, 66 m and 78 m depths were selected for processing.

The number of points edited using the quality control procedures described in Section 3-3.2.1 is listed in Table A3-3.20. A time series plot of each velocity component at each depth is shown in Figure A3-3.21 through Figure A3-3.28.

Summary statistics computed for each depth are shown in Table A3-3.21. Speed and direction joint frequency tables are presented in Table A3-3.22 through Table A3-3.25 and are further illustrated with compass plots in Figure A3-3.29 through Figure A3-3.32. The color of each segment in the compass plots denotes its speed interval. The radial length of each segment denotes the proportion of measurements within the illustrated speed and direction interval. The maximum and mean are illustrated through the second radial scale as the red and light green lines respectively for clear viewing.

Measurement Statistics

Table A3-3.20. Summary of Points Edited at Each Depth for April 21 - May 11 at the 85 m Site

	Veast				Vnorth			
	12 m	36 m	66 m	78 m	12 m	36 m	66 m	78 m
Out of Range	0	0	0	0	0	0	0	0
Single Spike	0	0	0	0	0	0	0	0
Double Spike	0	0	0	0	0	0	0	0
Triple Spike	0	0	0	0	0	0	0	0
Quad. Spike	0	0	0	0	0	0	0	0
Manual Edit	1	0	0	0	1	0	0	0
Verror >10	0	0	0	0	0	0	0	0
% Edit	0.07 %	0.00 %	0.00 %	0.00 %	0.07 %	0.00 %	0.00 %	0.00 %
Total Pts	1,404				1,404			

Current Time-Series

Figure A3-3.21. Time-series Plot of the East Velocity Component at 12 m Depth for April 21 - May 11 at the 85 m Site

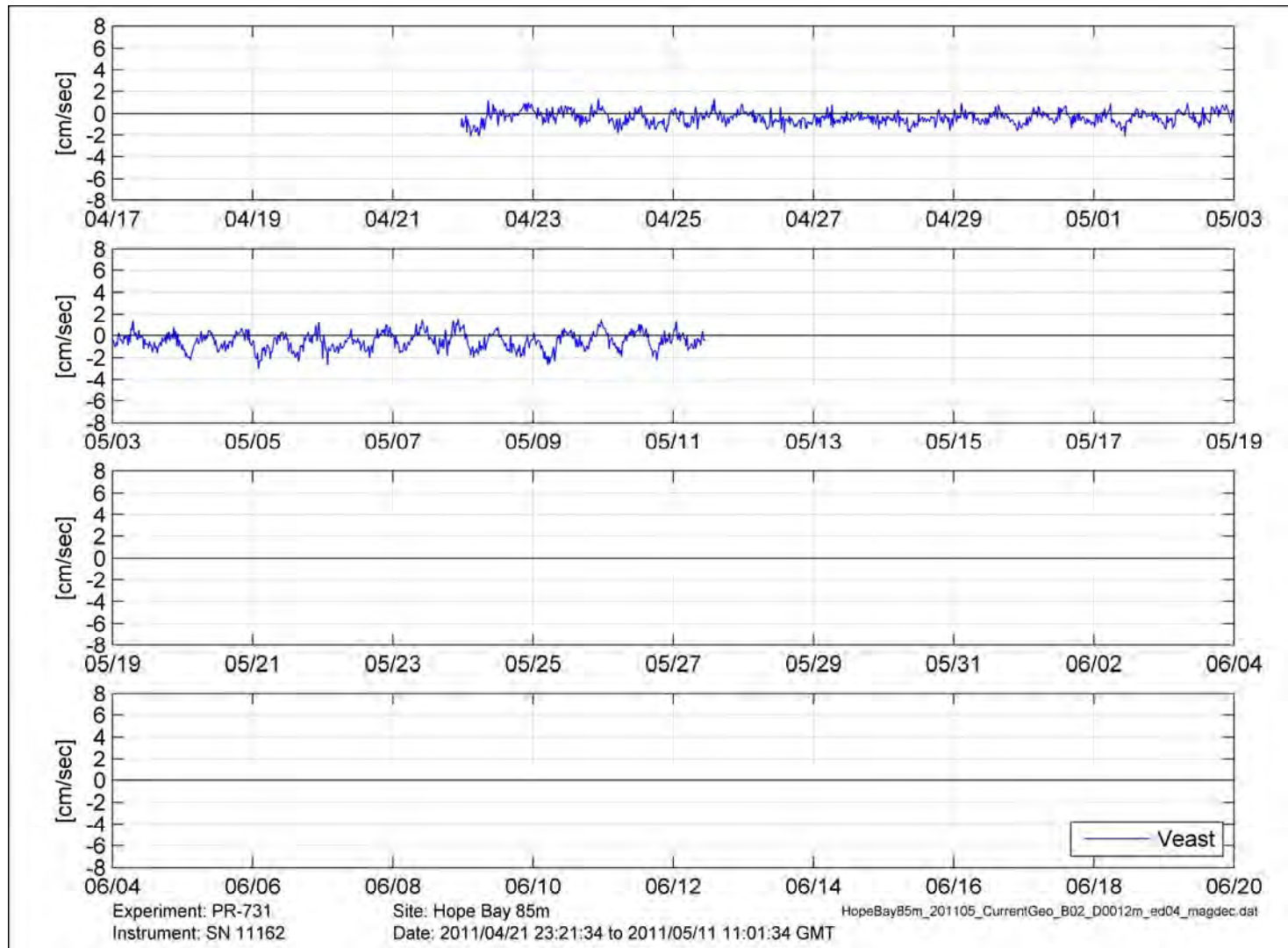


Figure A3-3.22. Time-series Plot of the North Velocity Component at 12 m Depth for April 21 - May 11 at the 85 m Site

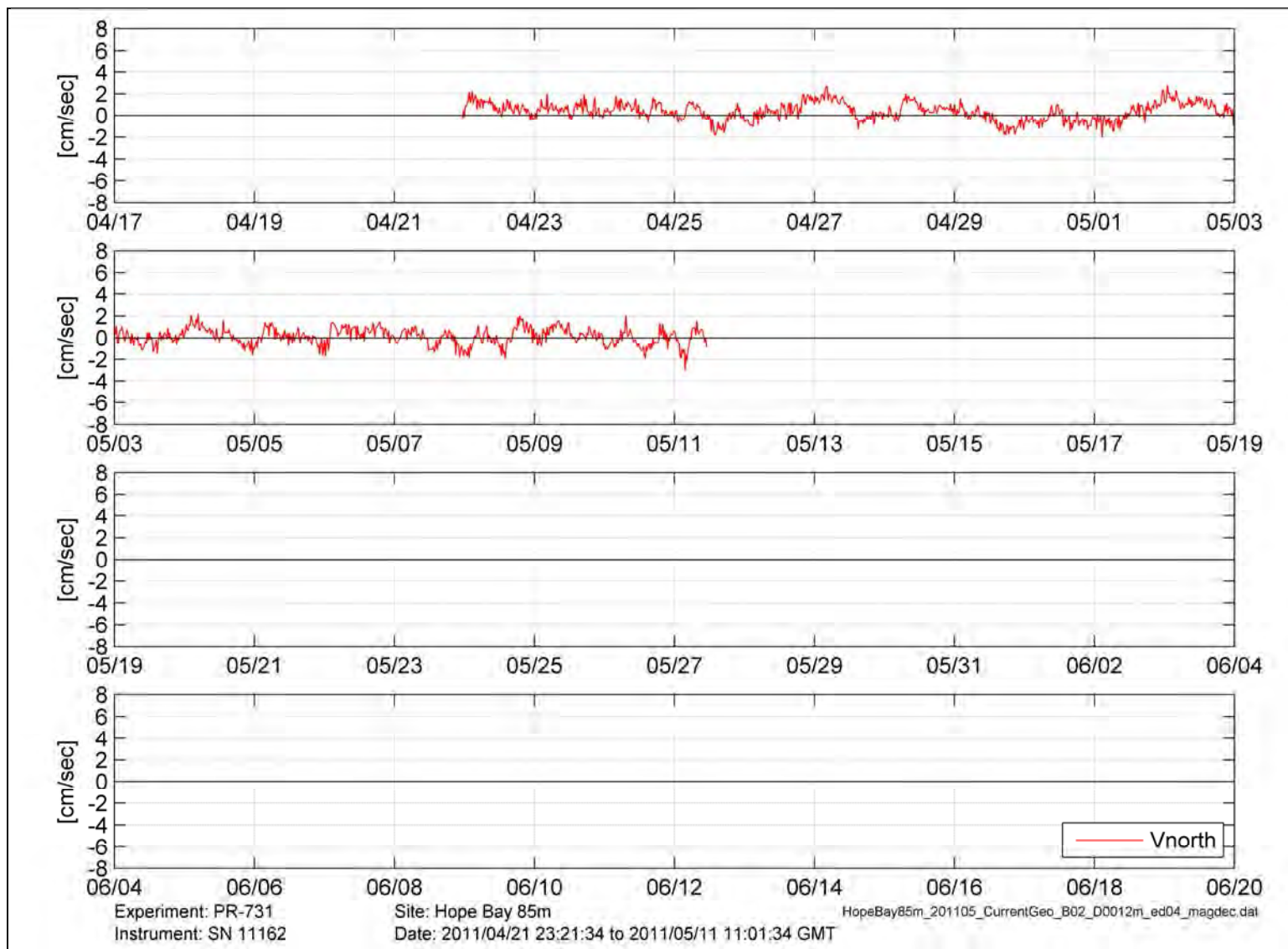


Figure A3-3.23. Time-series Plot of the East Velocity Component at 36 m Depth for April 21 - May 11 at the 85 m Site

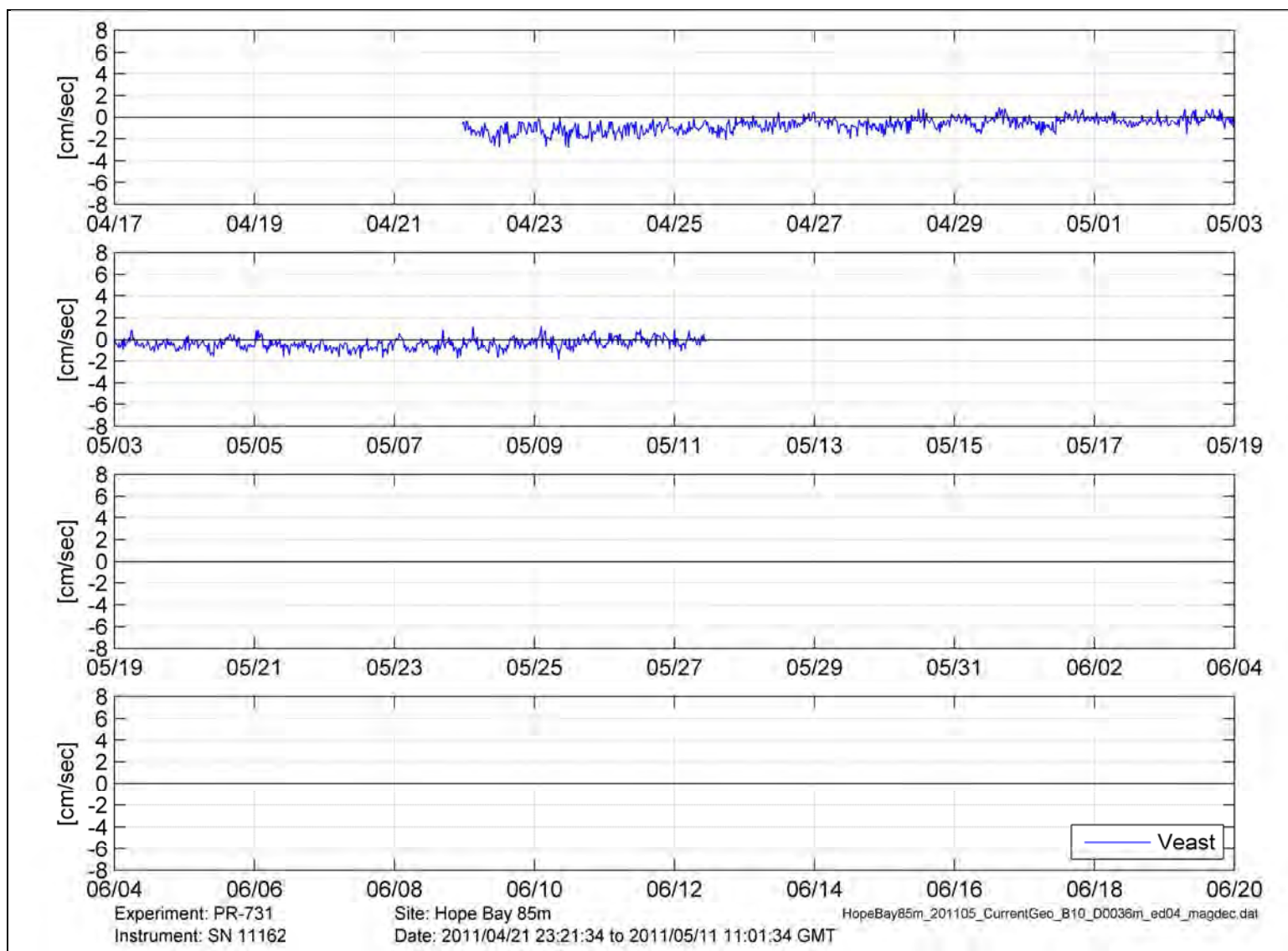


Figure A3-3.24. Time-series Plot of the North Velocity Component at 36 m Depth for April 21 - May 11 at the 85 m Site

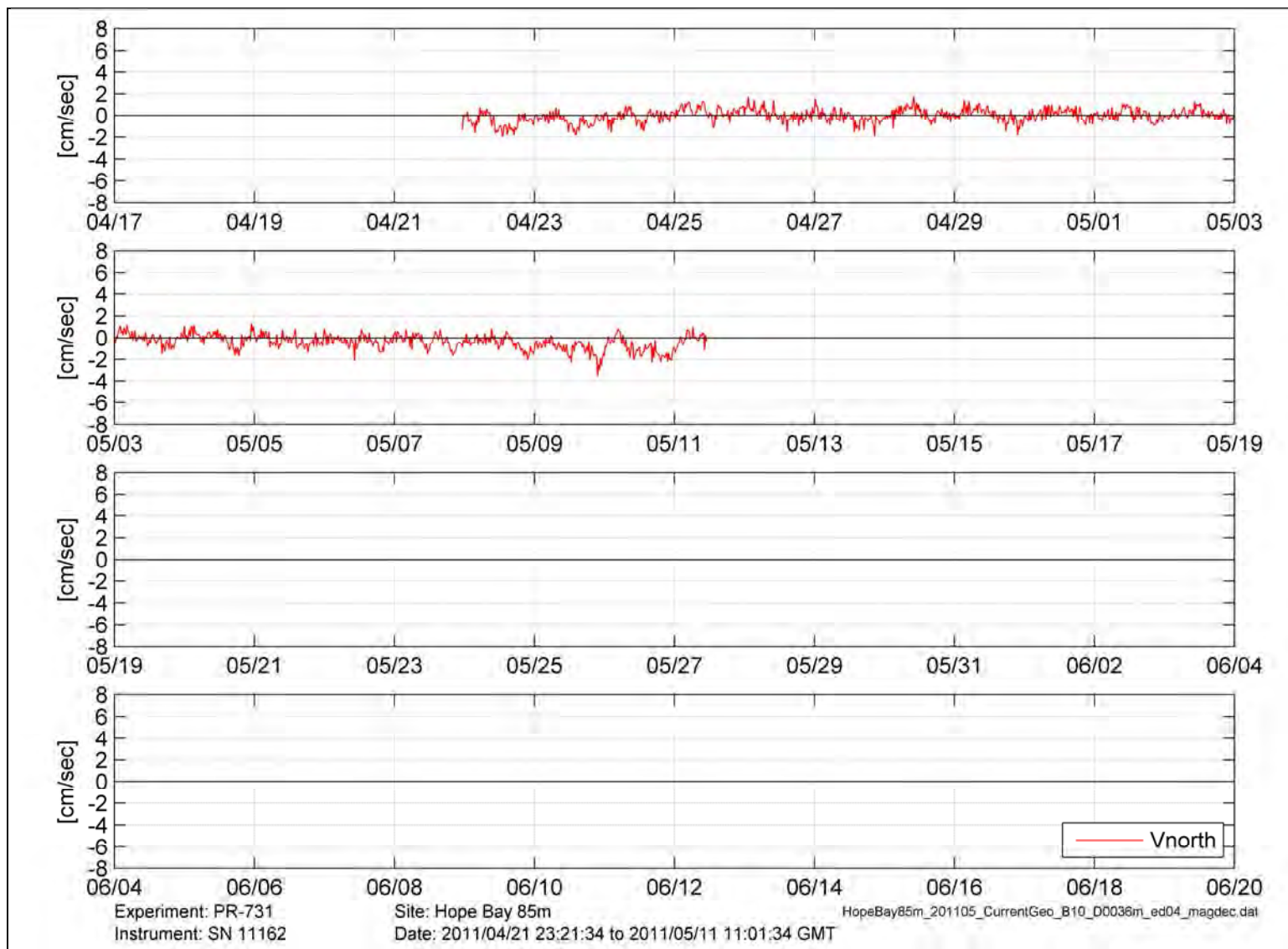


Figure A3-3.25. Time-series Plot of the East Velocity Component at 66 m Depth for April 21 - May 11 at the 85 m Site

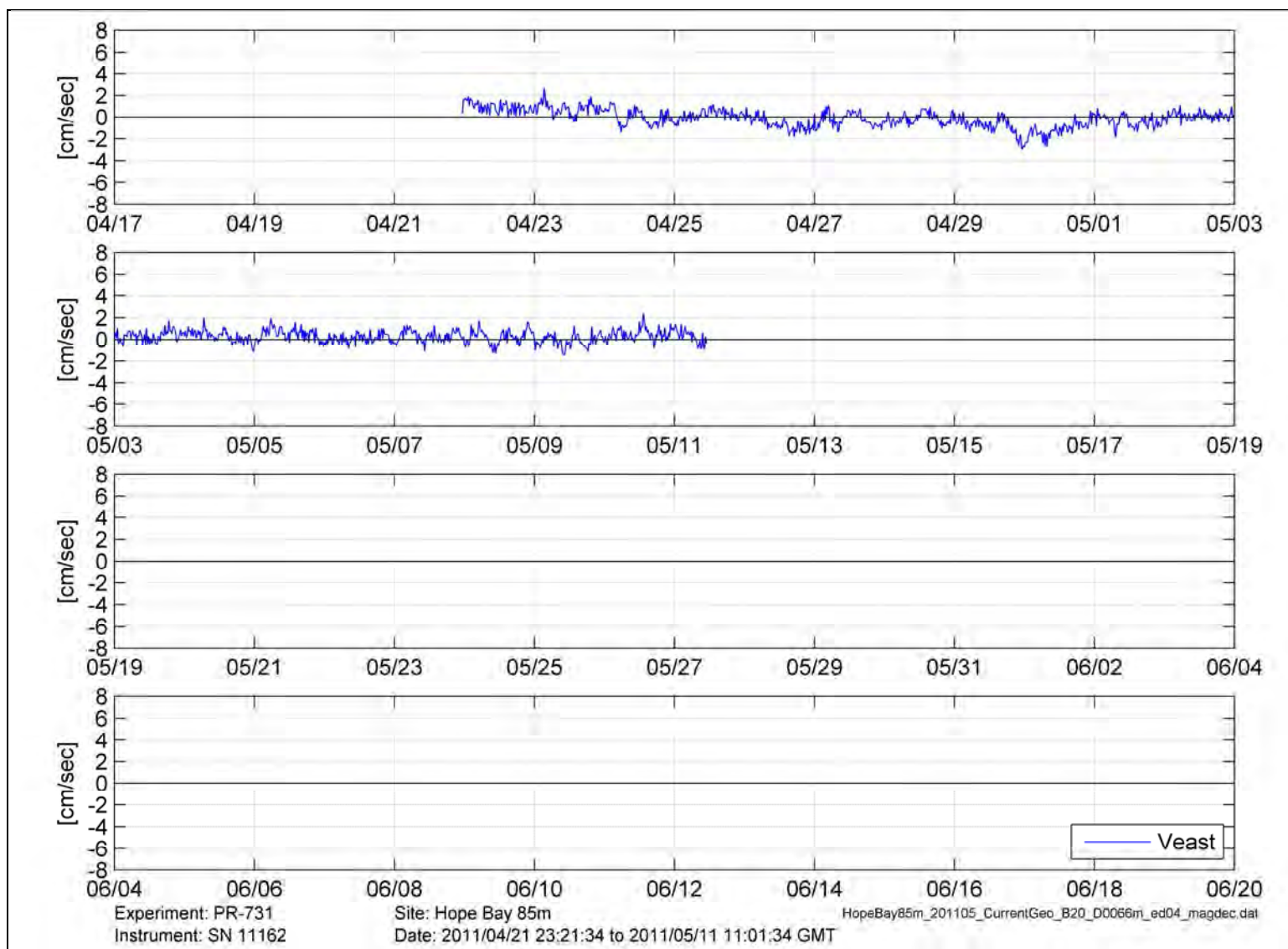


Figure A3-3.26. Time-series Plot of the North Velocity Component at 66 m Depth for April 21 - May 11 at the 85 m Site

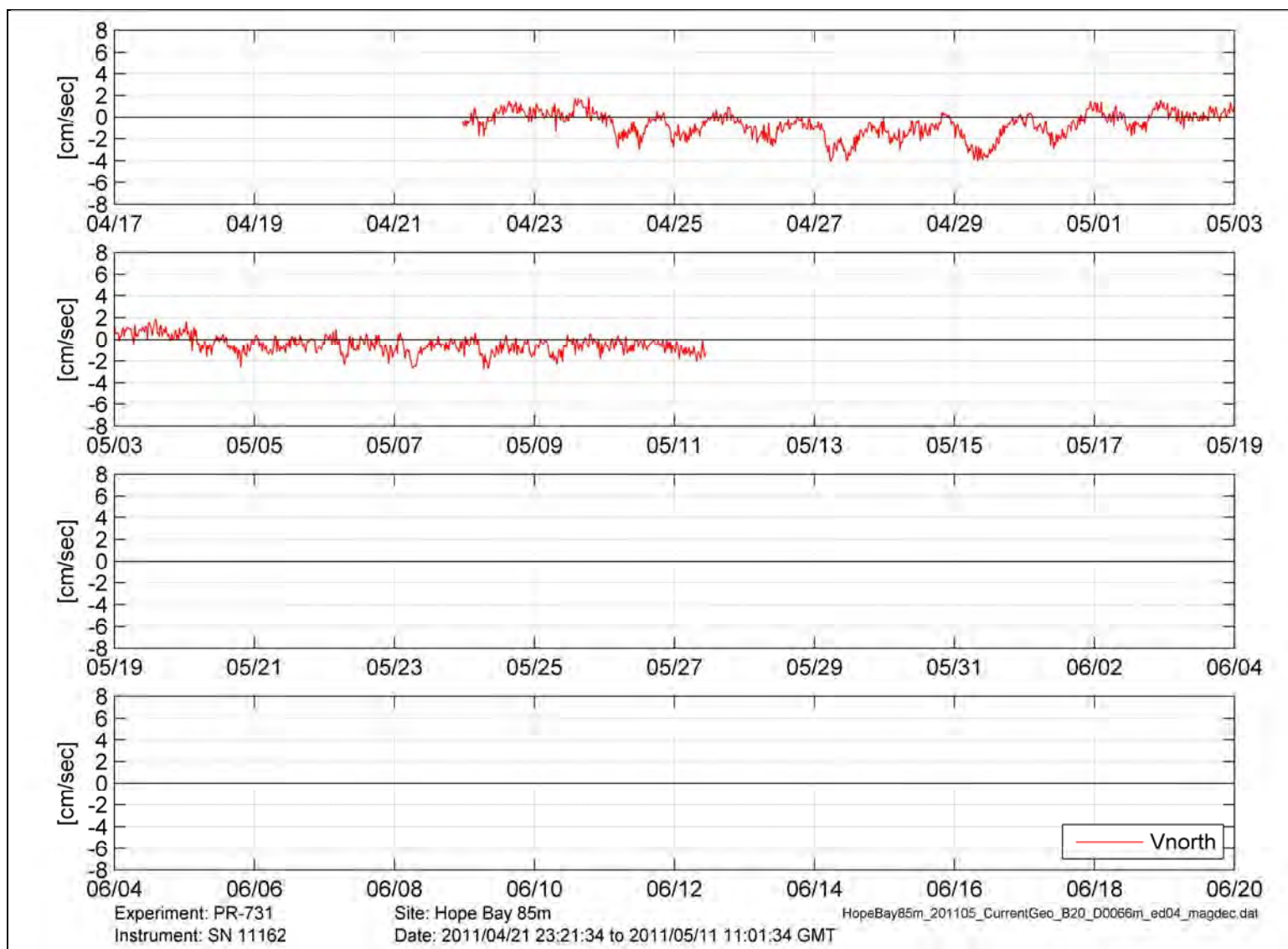


Figure A3-3.27. Time-series Plot of the East Velocity Component at 78 m Depth for April 21 - May 11 at the 85 m Site

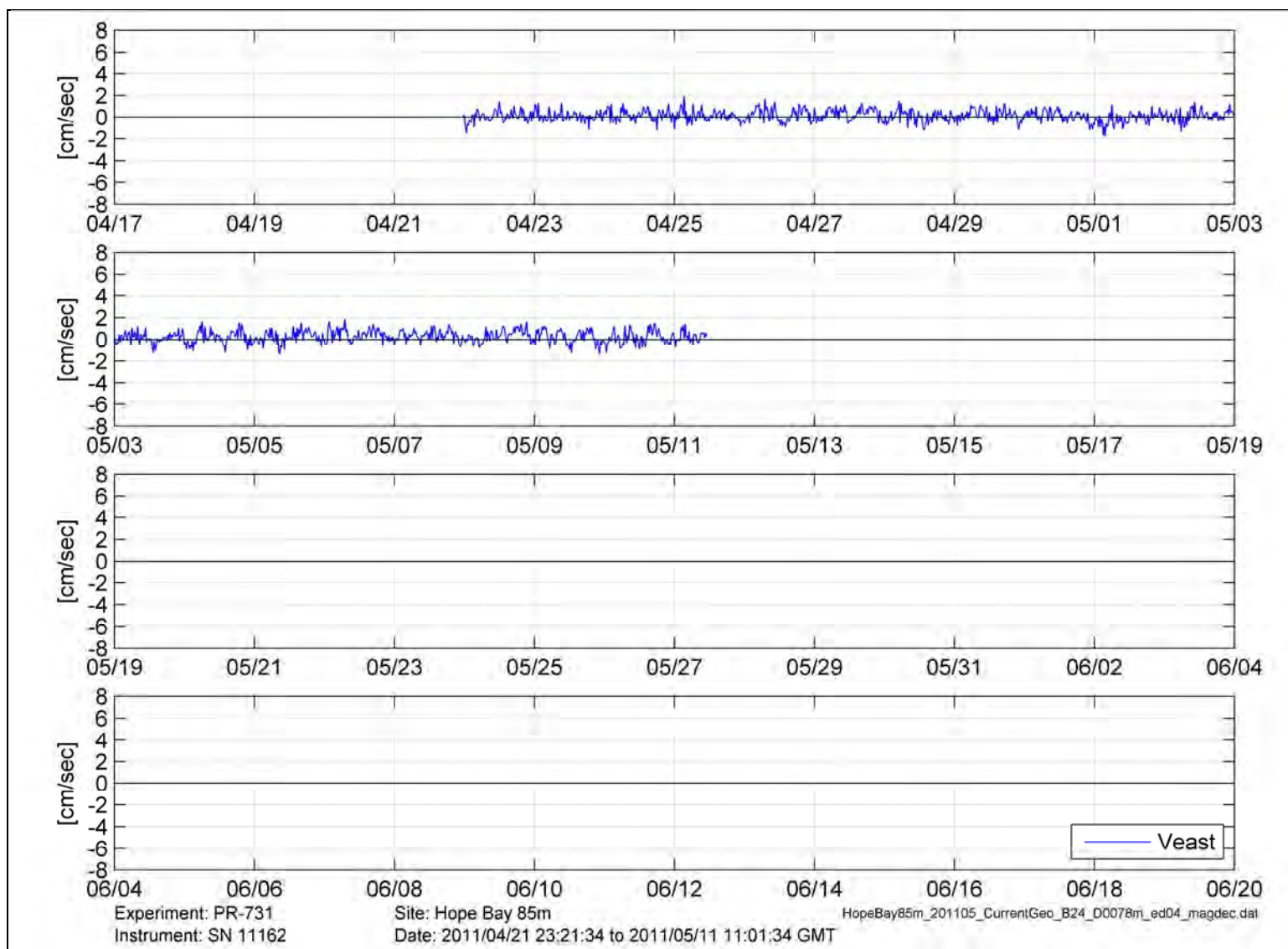


Figure A3-3.28. Time-series Plot of the North Velocity Component at 78 m depth for April 21 - May 11 at the 85 m Site

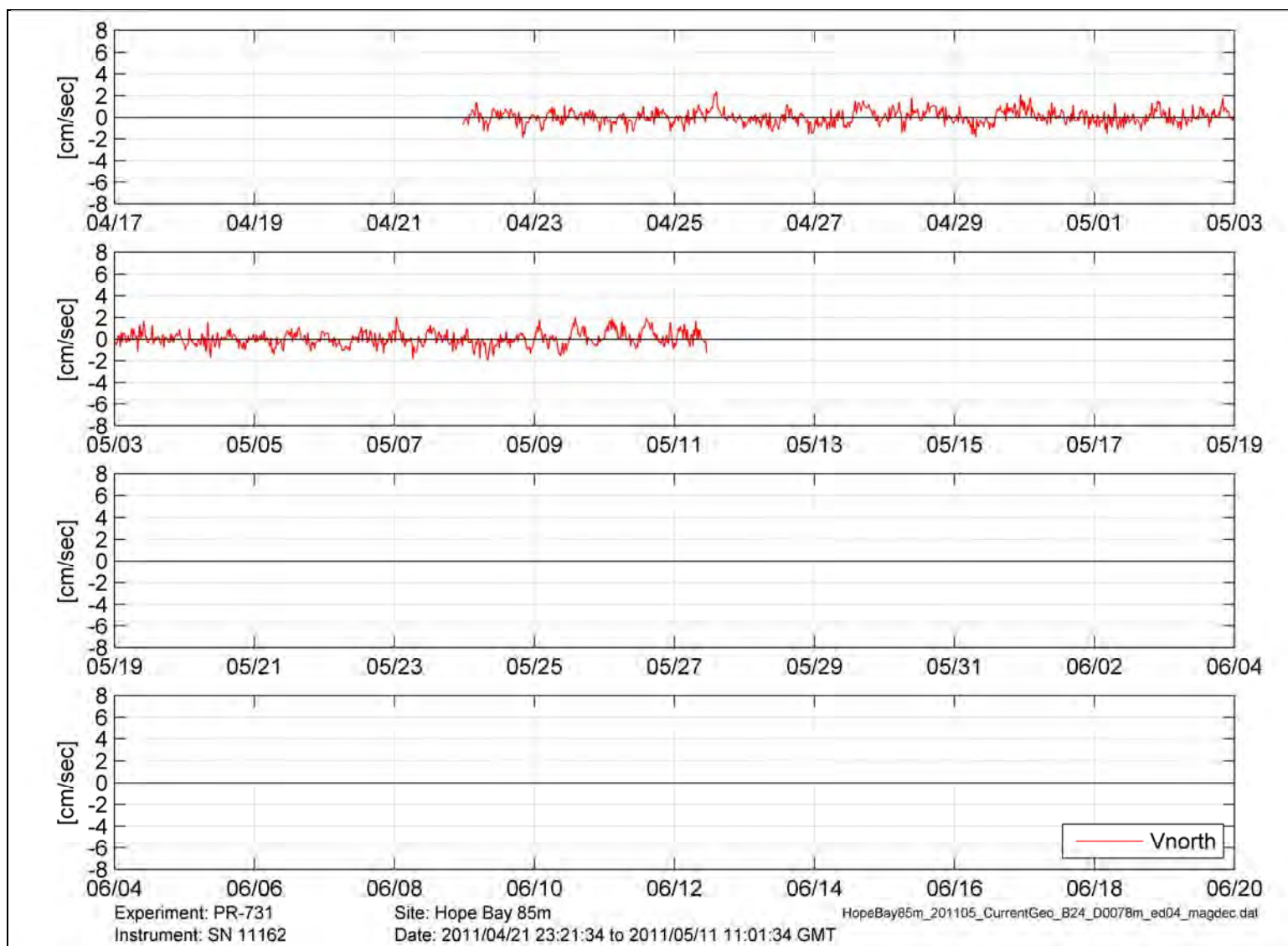


Table A3-3.21. Summary Statistics for Data Measured at Each Depth for April 21 - May 11 at the 85 m Site

Depth (m)		Min	1%	5%	25%	50%	Mean	75%	95%	99%	Std	Max	# Valid	Total #
12	Veast	-3.03	-2.14	-1.61	-0.92	-0.44	-0.47	-0.01	0.65	1.02	0.69	1.57	1,404	1,404
	Vnorth	-2.97	-1.75	-1.18	-0.30	0.27	0.24	0.82	1.54	2.01	0.82	2.80		
	Speed	0.00	0.10	0.28	0.63	0.99	1.05	1.43	2.06	2.55	0.56	3.08		
36	Veast	-2.82	-2.12	-1.68	-0.99	-0.58	-0.60	-0.17	0.40	0.77	0.62	1.24	1,404	1,404
	Vnorth	-3.55	-2.01	-1.47	-0.62	-0.16	-0.21	0.24	0.84	1.16	0.69	1.76		
	Speed	0.00	0.14	0.22	0.60	0.91	0.99	1.30	1.97	2.50	0.53	3.64		
66	Veast	-2.93	-2.01	-1.29	-0.46	0.09	0.04	0.58	1.22	1.65	0.77	2.64	1,404	1,404
	Vnorth	-4.09	-3.66	-2.53	-1.22	-0.57	-0.62	0.07	0.96	1.41	1.03	1.87		
	Speed	0.00	0.14	0.32	0.71	1.12	1.23	1.57	2.68	3.69	0.73	4.10		
78	Veast	-1.76	-1.20	-0.74	-0.20	0.16	0.17	0.54	1.10	1.43	0.56	1.91	1,404	1,404
	Vnorth	-2.01	-1.54	-1.08	-0.41	-0.02	0.02	0.44	1.12	1.68	0.67	2.40		
	Speed	0.00	0.10	0.20	0.45	0.71	0.78	1.03	1.58	2.00	0.43	2.41		

Joint Frequency Tables

Table A3-3.22. Joint Frequency Table for Data Measured at 12 m Depth for April 21 - May 11 at the 85 m Site

Location: Hope Bay 85m
Instrument: SN 11162
For period: 2011/04/21 23:21:34 to 2011/05/11 11:01:34
Sample interval: 20 min

			Speed (cm/s)								Row Total (%)
			0.0 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	
Direction (deg)											
11.25	33.75	NNE	2.21	1.57							3.77
33.75	56.25	NE	2.42	0.57	0.07						3.06
56.25	78.75	ENE	1.71	0.14							1.85
78.75	101.25	E	1.92	0.64							2.56
101.25	123.75	ESE	1.57	0.21							1.78
123.75	146.25	SE	1.85	0.93	0.14						2.92
146.25	168.75	SSE	1.64	1.21							2.85
168.75	191.25	S	3.35	2.21	0.07						5.63
191.25	213.75	SSW	2.85	2.78	0.36						5.98
213.75	236.25	SW	3.63	2.07							5.70
236.25	258.75	WSW	2.42	3.42	0.36						6.20
258.75	281.25	W	4.77	5.06	0.57	0.07					10.47
281.25	303.75	WNW	4.70	5.13	1.28						11.11
303.75	326.25	NW	6.20	7.98	2.07	0.07					16.31
326.25	348.75	NNW	4.06	6.84	1.00						11.89
348.75	11.25	N	4.91	2.42	0.57						7.91
Column Total (%)			50.21	43.16	6.48	0.14	0.00	0.00	0.00	0.00	

Filename: HopeBay85m_201105_CurrentGeo_B02_D0012m_ed04_magdec.dat
Max Speed: 3.08 cm/s # non-flagged records: 1404
Mean Speed: 1.05 cm/s # flagged records: 0
Vector-averaged Speed: 0.53 cm/s at 297.51 deg

Table A3-3.23. Joint Frequency Table for Data Measured at 36 m depth for April 21 - May 11 at the 85 m Site

Location: Hope Bay 85m
Instrument: SN 11162
For period: 2011/04/21 23:21:34 to 2011/05/11 11:01:34
Sample interval: 20 min

			Speed (cm/s)							Row Total (%)
			0.0 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	
Direction (deg)										
11.25	33.75	NNE	1.35							1.35
33.75	56.25	NE	1.99	0.28						2.28
56.25	78.75	ENE	0.78							0.78
78.75	101.25	E	1.42							1.42
101.25	123.75	ESE	0.85	0.07						0.93
123.75	146.25	SE	1.50	0.43						1.92
146.25	168.75	SSE	1.85	1.28						3.13
168.75	191.25	S	3.85	3.21	0.64	0.07				7.76
191.25	213.75	SSW	4.42	3.99	0.43	0.07				8.90
213.75	236.25	SW	6.05	5.56	0.93					12.54
236.25	258.75	WSW	6.41	7.41	1.28	0.07				15.17
258.75	281.25	W	9.12	7.34	0.78					17.24
281.25	303.75	WNW	5.56	5.20	0.21					10.97
303.75	326.25	NW	5.41	3.13						8.55
326.25	348.75	NNW	2.92	1.35						4.27
348.75	11.25	N	2.28	0.50						2.78
Column Total (%)			55.77	39.74	4.27	0.21	0.00	0.00	0.00	0.00

Filename: HopeBay85m_201105_CurrentGeo_B10_D0036m_ed04_magdec.dat
Max Speed: 3.64 cm/s # non-flagged records: 1404
Mean Speed: 0.99 cm/s # flagged records: 0
Vector-averaged Speed: 0.63 cm/s at 250.32 deg

Table A3-3.24. Joint Frequency Table for Data Measured at 66 m Depth for April 21 - May 11 at the 85 m Site

Location: Hope Bay 85m
Instrument: SN 11162
For period: 2011/04/21 23:21:34 to 2011/05/11 11:01:34
Sample interval: 20 min

			Speed (cm/s)							Row Total (%)
			0.0 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	
Direction (deg)										
11.25	33.75	NNE	2.85	2.07						4.91
33.75	56.25	NE	2.35	1.99	0.07					4.42
56.25	78.75	ENE	2.71	2.28						4.99
78.75	101.25	E	3.56	2.78	0.07					6.41
101.25	123.75	ESE	2.85	2.71	0.28					5.84
123.75	146.25	SE	4.06	4.06	0.07					8.19
146.25	168.75	SSE	4.27	5.91	1.28	0.07				11.54
168.75	191.25	S	3.63	5.84	3.06	1.50	0.28			14.32
191.25	213.75	SSW	3.77	5.63	3.77	1.00				14.17
213.75	236.25	SW	3.42	4.20	0.78					8.40
236.25	258.75	WSW	1.71	2.28	0.57	0.07				4.63
258.75	281.25	W	1.99	1.00	0.43					3.42
281.25	303.75	WNW	1.21	0.57	0.07					1.85
303.75	326.25	NW	2.07	0.43						2.49
326.25	348.75	NNW	0.64	0.93						1.57
348.75	11.25	N	1.57	1.28						2.85
Column Total (%)			42.66	43.95	10.47	2.64	0.28	0.00	0.00	0.00

Filename: HopeBay85m_201105_CurrentGeo_B20_D0066m_ed04_magdec.dat
Max Speed: 4.10 cm/s # non-flagged records: 1404
Mean Speed: 1.23 cm/s # flagged records: 0
Vector-averaged Speed: 0.62 cm/s at 176.53 deg

Table A3-3.25. Joint Frequency Table for Data Measured at 78 m depth for April 21 - May 11 at the 85 m Site

Location: Hope Bay 85m
Instrument: SN 11162
For period: 2011/04/21 23:21:34 to 2011/05/11 11:01:34
Sample interval: 20 min

			Speed (cm/s)							Row Total (%)
			0.0 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	
Direction (deg)										
11.25	33.75	NNE	5.06	2.42	0.21					7.69
33.75	56.25	NE	6.27	2.56	0.14					8.97
56.25	78.75	ENE	3.42	2.07						5.48
78.75	101.25	E	7.26	2.92						10.19
101.25	123.75	ESE	4.77	2.07	0.07					6.91
123.75	146.25	SE	5.20	2.64	0.07					7.91
146.25	168.75	SSE	3.28	2.14	0.21					5.63
168.75	191.25	S	6.34	1.50						7.83
191.25	213.75	SSW	3.42	1.50						4.91
213.75	236.25	SW	5.70	0.71						6.41
236.25	258.75	WSW	1.92	0.71	0.07					2.71
258.75	281.25	W	4.42	0.78						5.20
281.25	303.75	WNW	2.64	0.64						3.28
303.75	326.25	NW	3.13	0.50						3.63
326.25	348.75	NNW	2.35	1.21						3.56
348.75	11.25	N	6.48	2.92	0.28					9.69
Column Total (%)			71.65	27.28	1.07	0.00	0.00	0.00	0.00	

Filename: HopeBay85m_201105_CurrentGeo_B24_D0078m_ed04_magdec.dat
Max Speed: 2.41 cm/s # non-flagged records: 1404
Mean Speed: 0.78 cm/s # flagged records: 0
Vector-averaged Speed: 0.17 cm/s at 84.33 deg

Compass Plots

Figure A3-3.29. Compass Plot at 12 m Depth for April 21 - May 11 at the 85 m Site

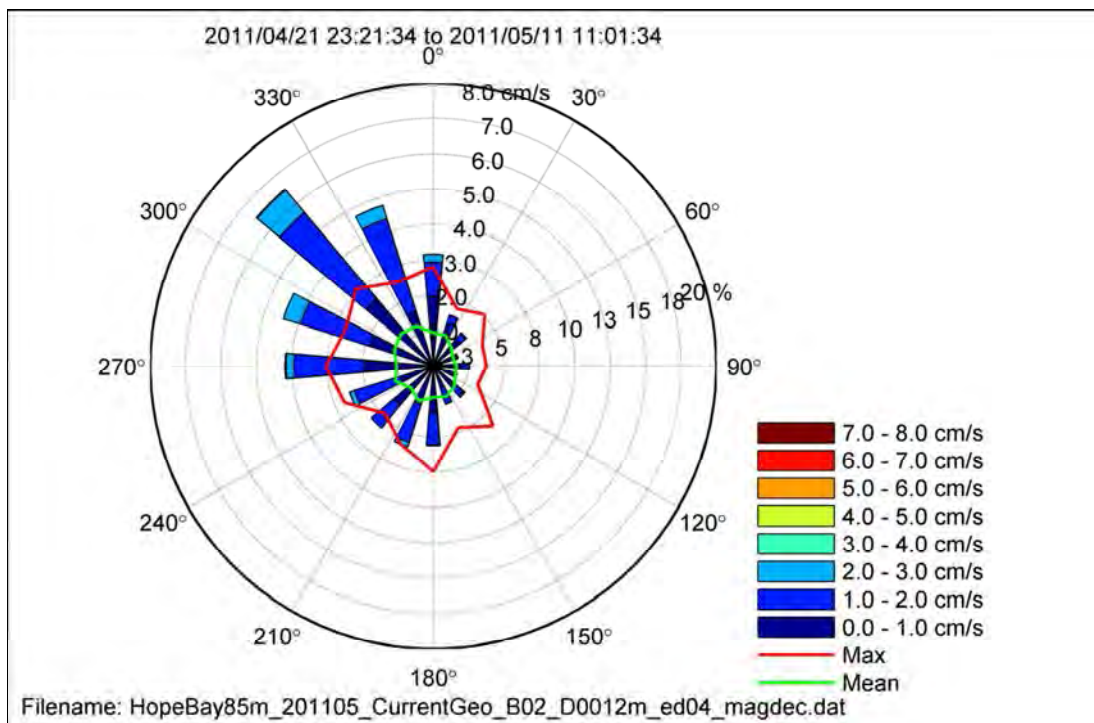


Figure A3-3.30. Compass Plot at 36 m Depth for April 21 - May 11 at the 85 m Site

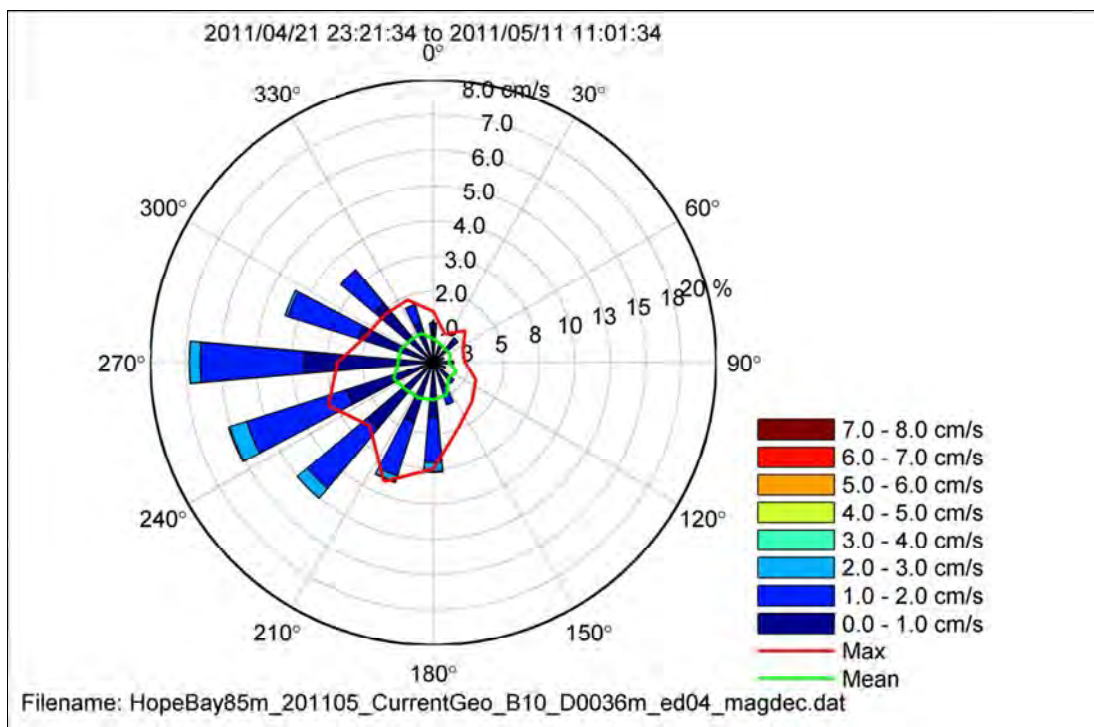


Figure A3-3.31. Compass Plot at 66 m Depth for April 21 - May 11 at the 85 m Site

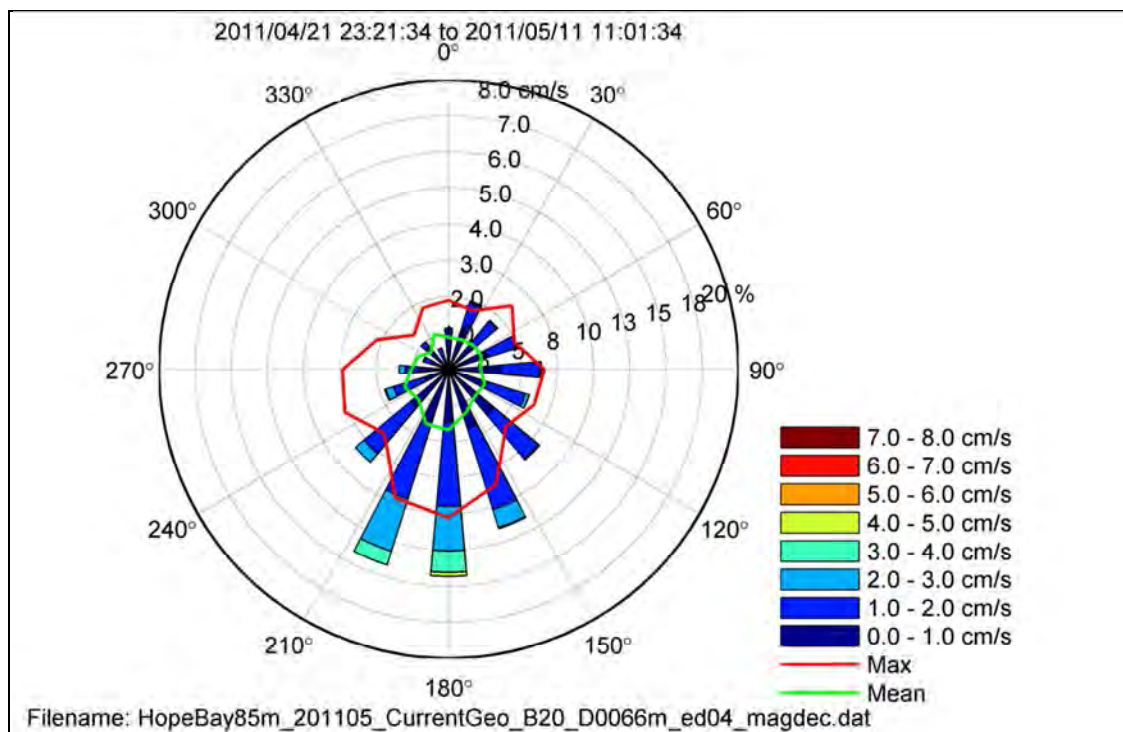
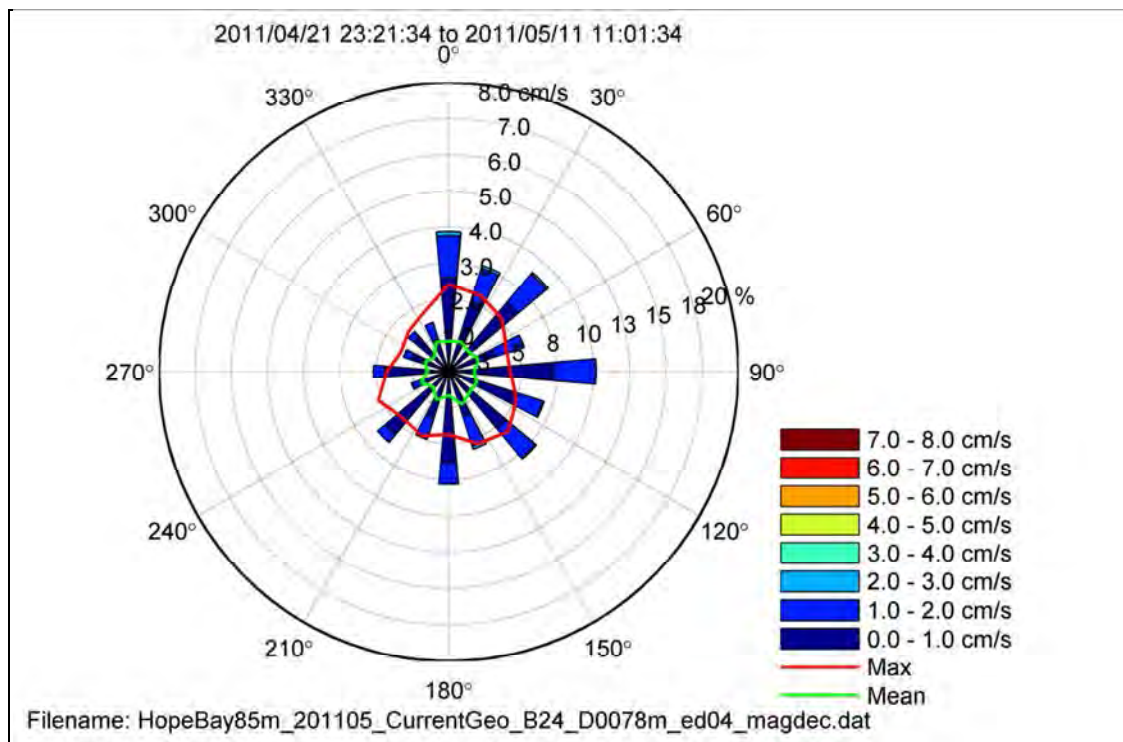


Figure A3-3.32. Compass Plot at 78 m Depth for April 21 - May 11 at the 85 m Site



3-3.2.4 May 22 - July 17 Deployment

Current bins corresponding to 16 m, 34 m, 58 m and 76 m depths were selected for processing.

The number of points edited using the quality control procedures described in Section 3-3.2.1 is listed in Table A3-3.26. A time series plot of each velocity component at each depth is shown in Figure A3-3.33 through Figure A3-3.40.

Statistics computed for each depth are shown in Table A3-3.27. Speed and direction joint frequency tables are presented in Table A3-3.28 through Table A3-3.31 and are further illustrated with compass plots in Figure A3-3.41 through Figure A3-3.44. The color of each segment denotes its speed interval. The radial length of each segment denotes the proportion of measurements within the illustrated speed and direction interval. The maximum and mean are illustrated through the second radial scale as the red and light green lines respectively for clear viewing.

Measurement Statistics

Table A3-3.26. Summary of Points Edited at Each Depth for May 22 - July 17 at the 85 m Site

	Veast				Vnorth			
	16 m	34 m	58 m	76 m	16 m	34 m	58 m	76 m
Out of Range	0	0	0	0	0	0	0	0
Single Spike	1	1	0	0	0	0	0	0
Double Spike	1	0	0	0	0	0	0	0
Triple Spike	0	0	0	0	0	0	0	0
Quad. Spike	0	0	0	0	0	0	0	0
Manual Edit	17	0	0	0	14	0	0	0
Verror >10	3	2	0	0	3	2	0	0
% Edit	0.85 %	0.11 %	0.00 %	0.00 %	0.63%	0.07 %	0.00 %	0.00 %
Total Pts	2,691				2,691			

Current Time-Series

Figure A3-3.33. Time-series Plot of the East Velocity Component at 16 m Depth for May 22 - July 17 at the 85 m Site

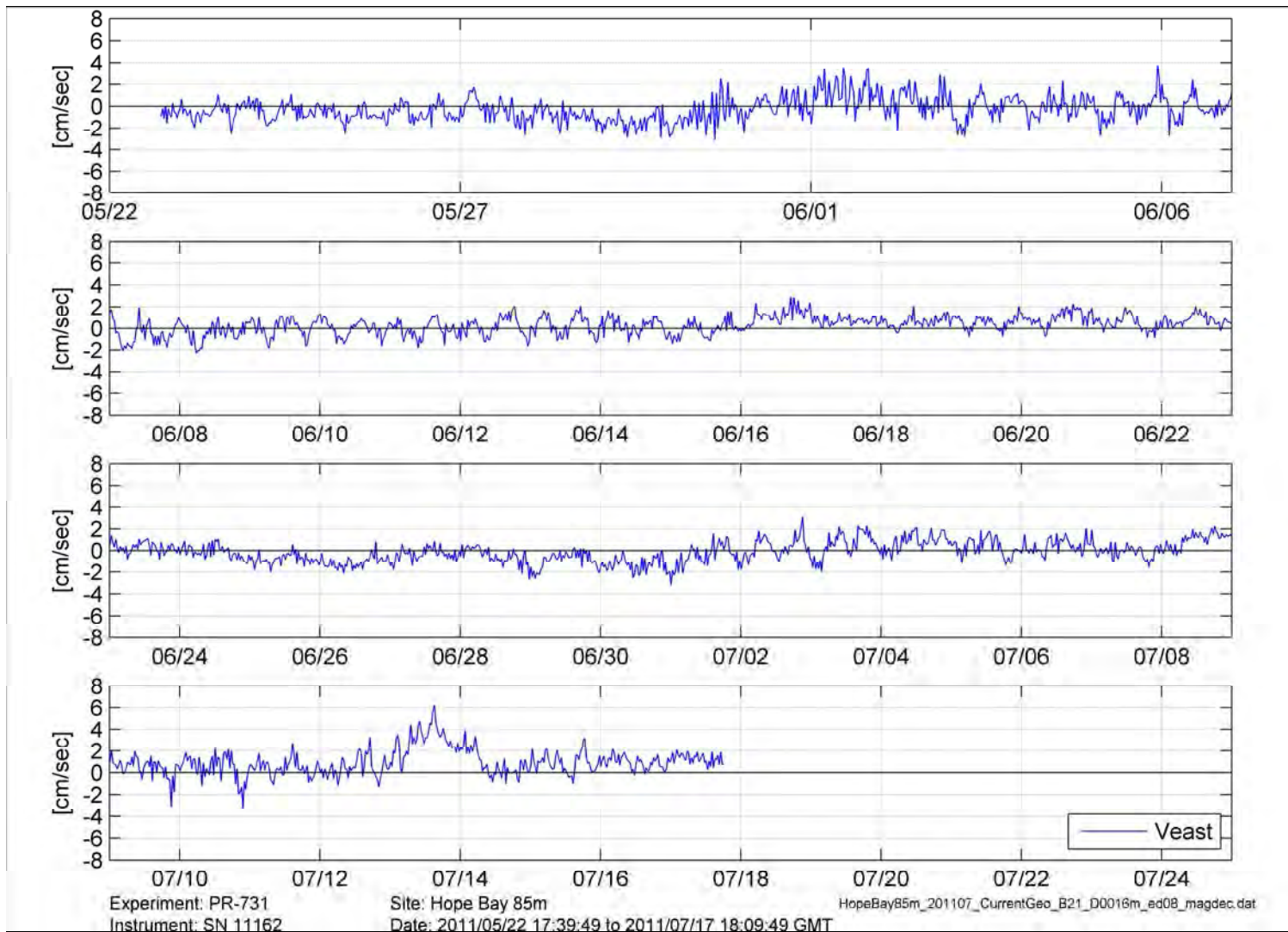


Figure A3-3.34. Time-series Plot of the North Velocity Component at 16 m Depth for May 22 - July 17 at the 85 m Site

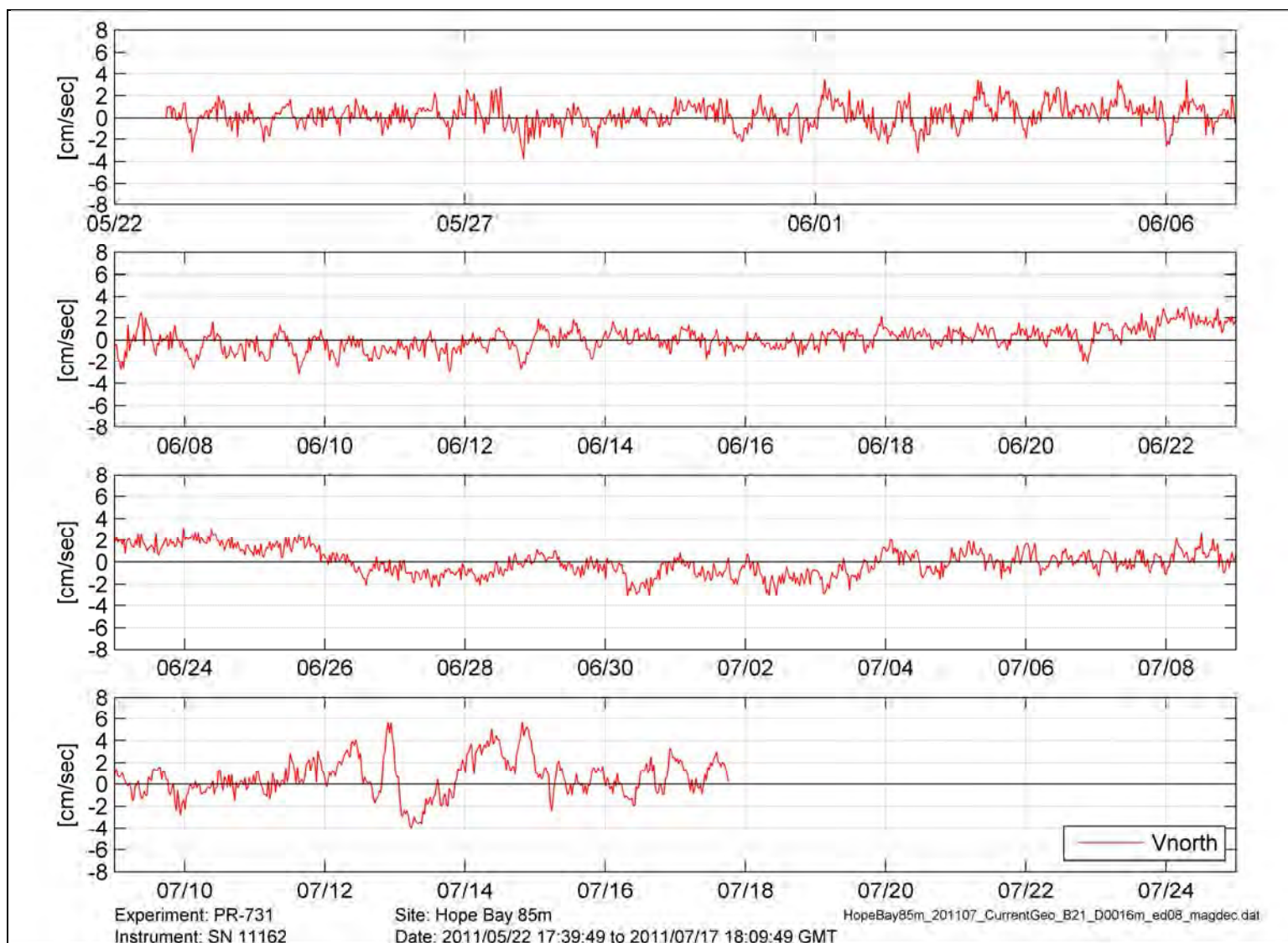


Figure A3-3.35. Time-series Plot of the East Velocity Component at 34 m Depth for May 22- July 17 at the 85 m Site

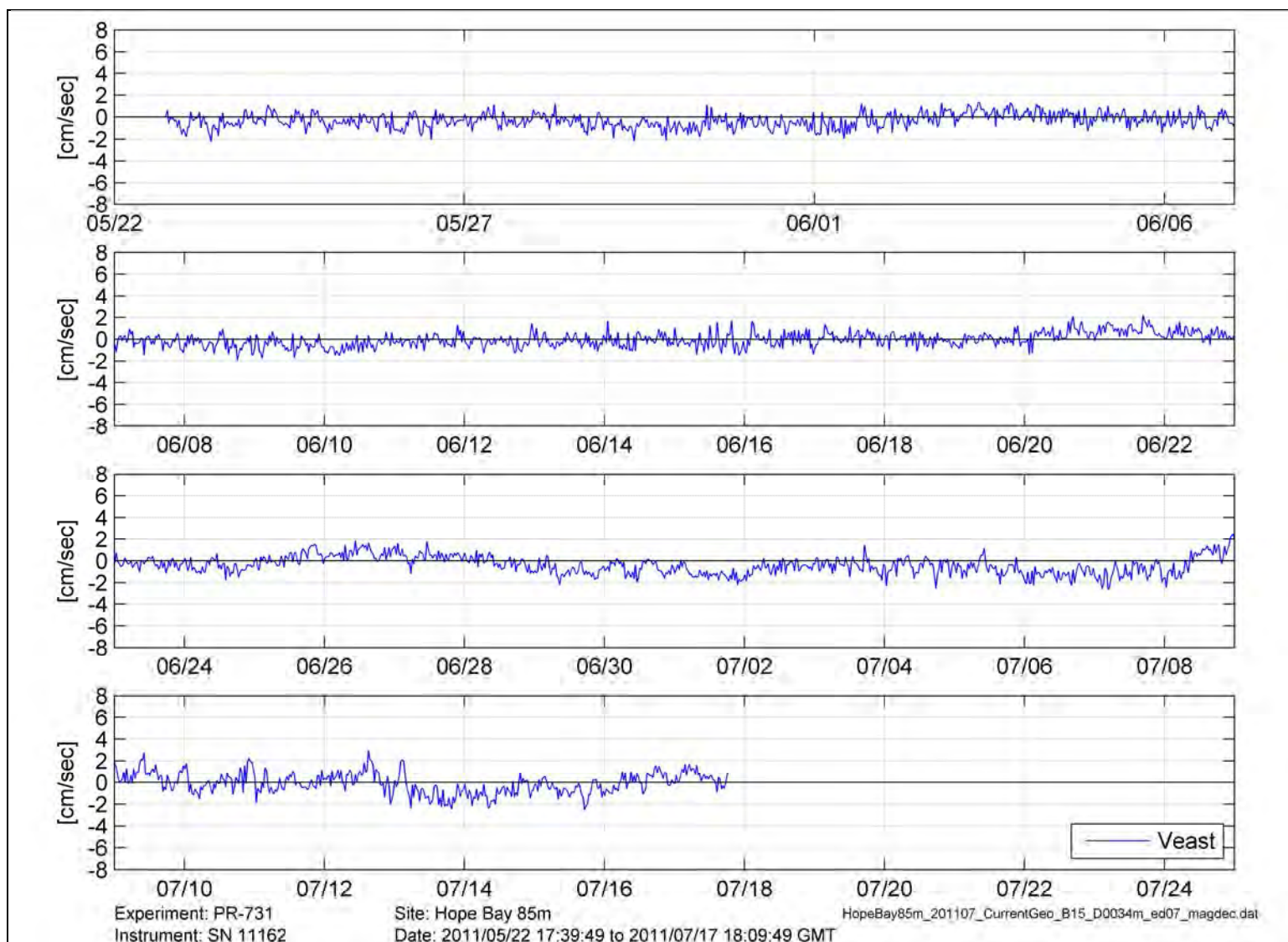


Figure A3-3.36. Time-series Plot of the North Velocity Component at 34 m Depth for May 22 - July 17 at the 85 m Site

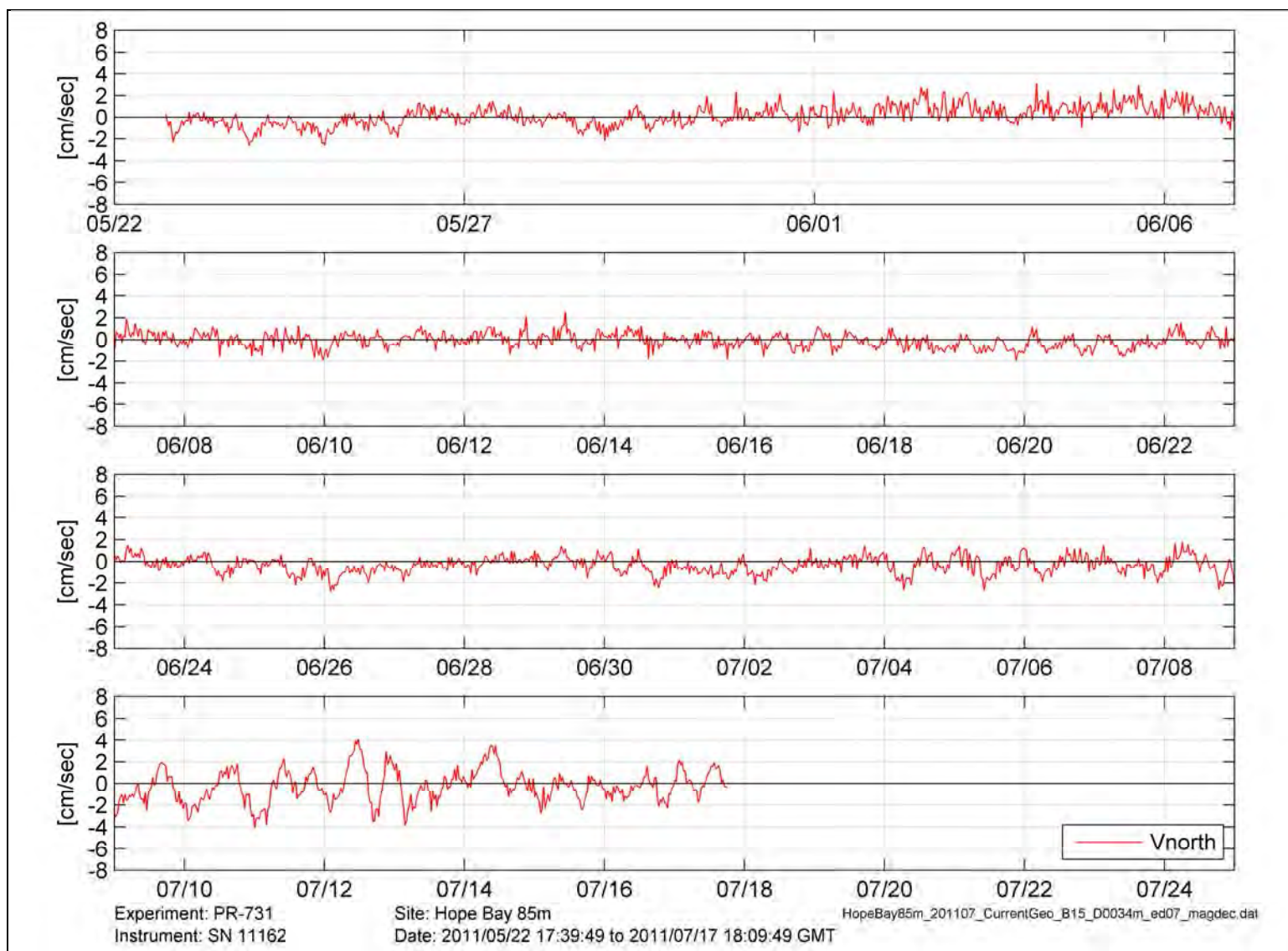


Figure A3-3.37. Time-series Plot of the East Velocity Component at 58 m Depth for May 22- July 17 at the 85 m Site

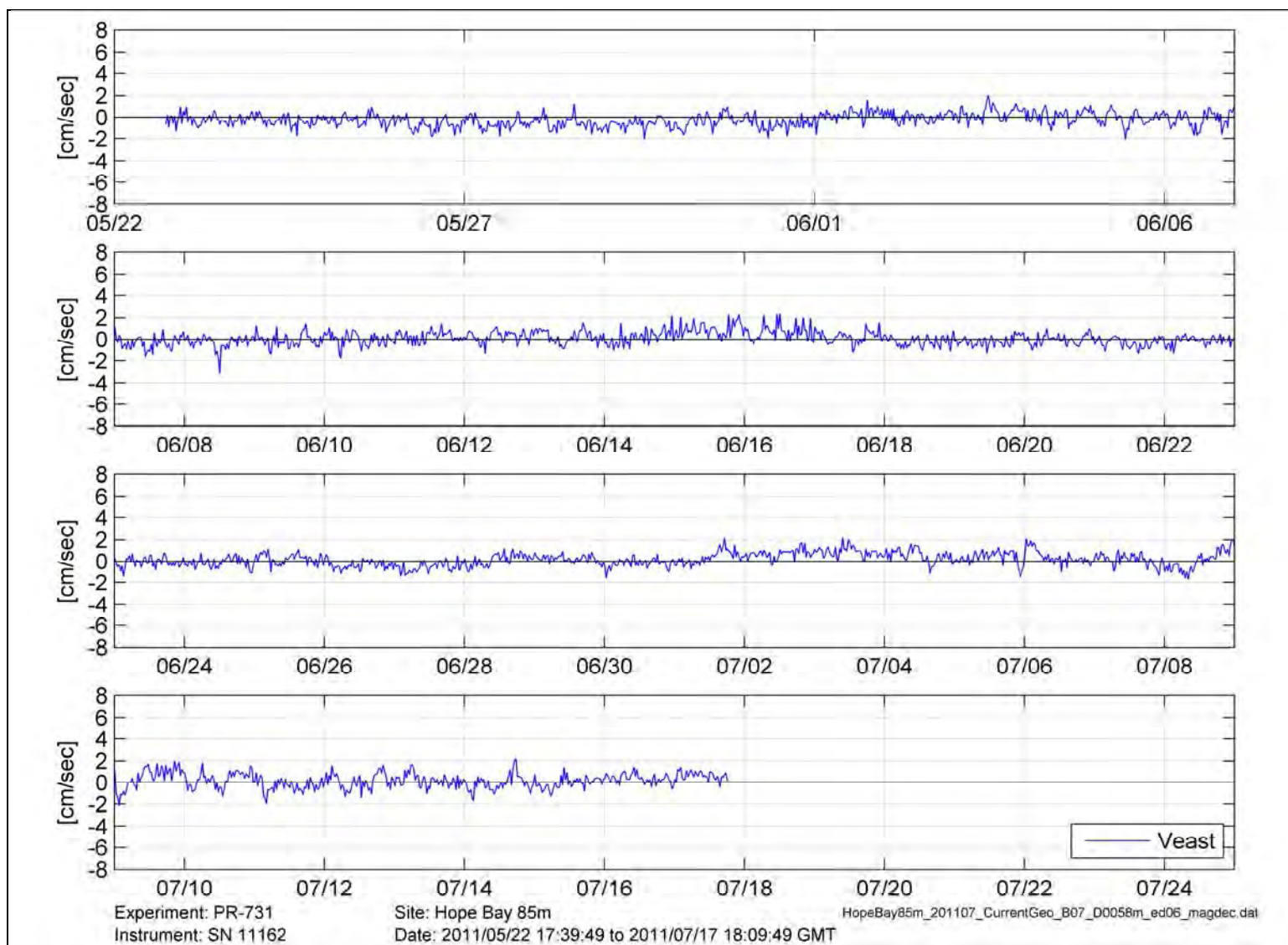


Figure A3-3.38. Time-series Plot of the North Velocity Component at 58 m Depth for May 22 - July 17 at the 85 m Site

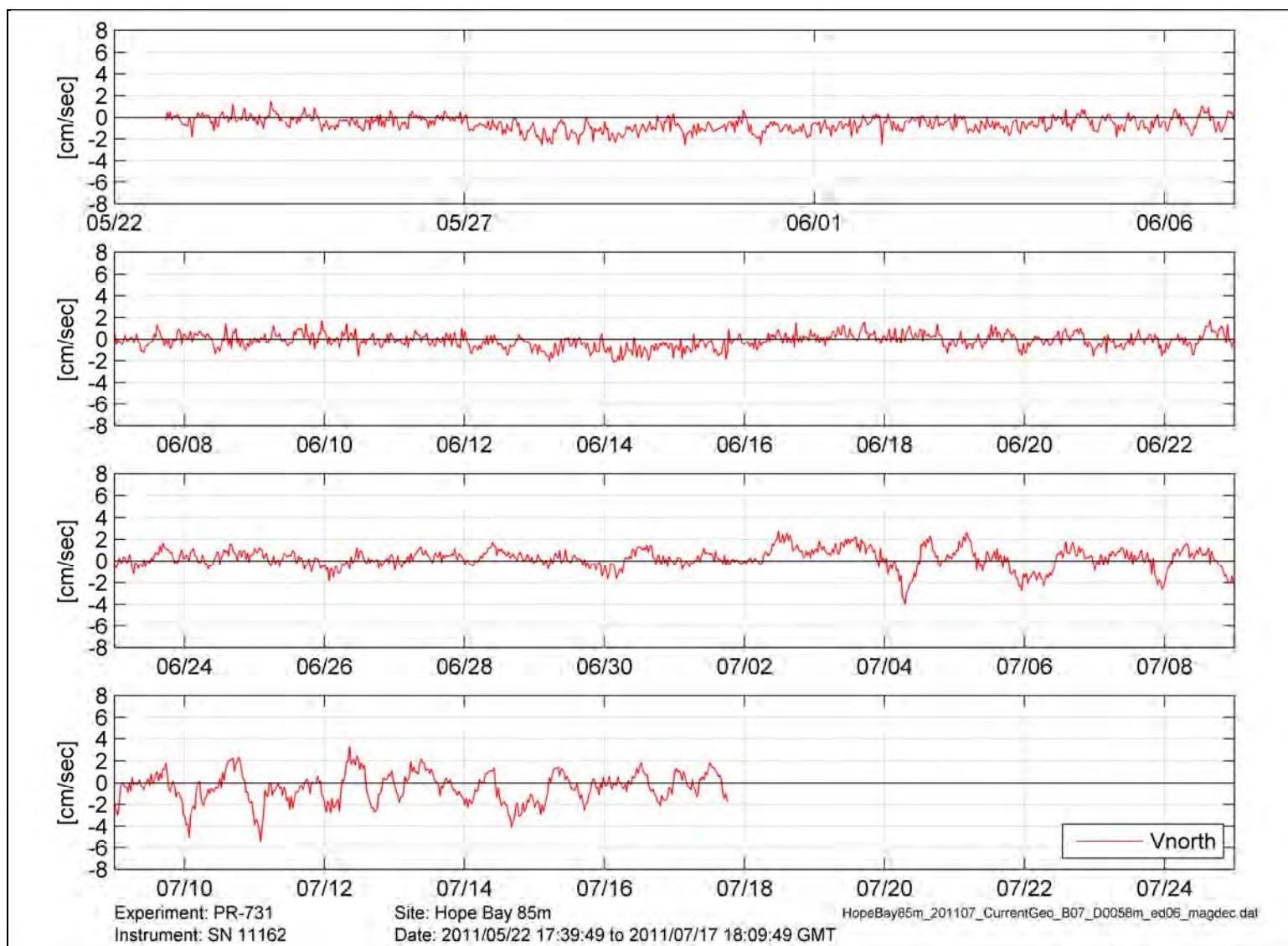


Figure A3-3.39. Time-series Plot of the East Velocity Component at 76 m Depth for May 22 - July 17 at the 85 m Site

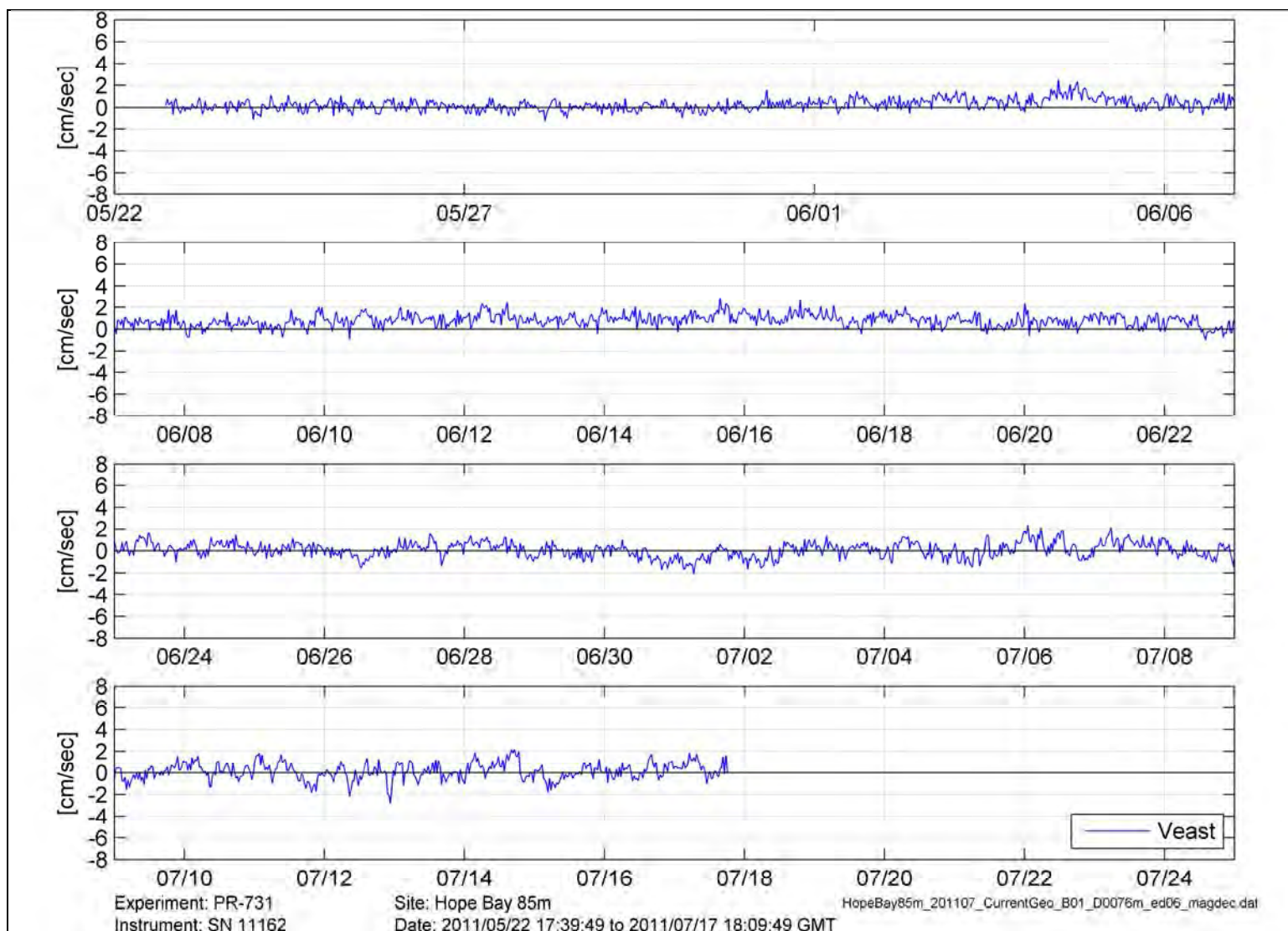


Figure A3-3.40. Time-series Plot of the North Velocity Component at 76 m Depth for May 22 - July 17 at the 85 m Site

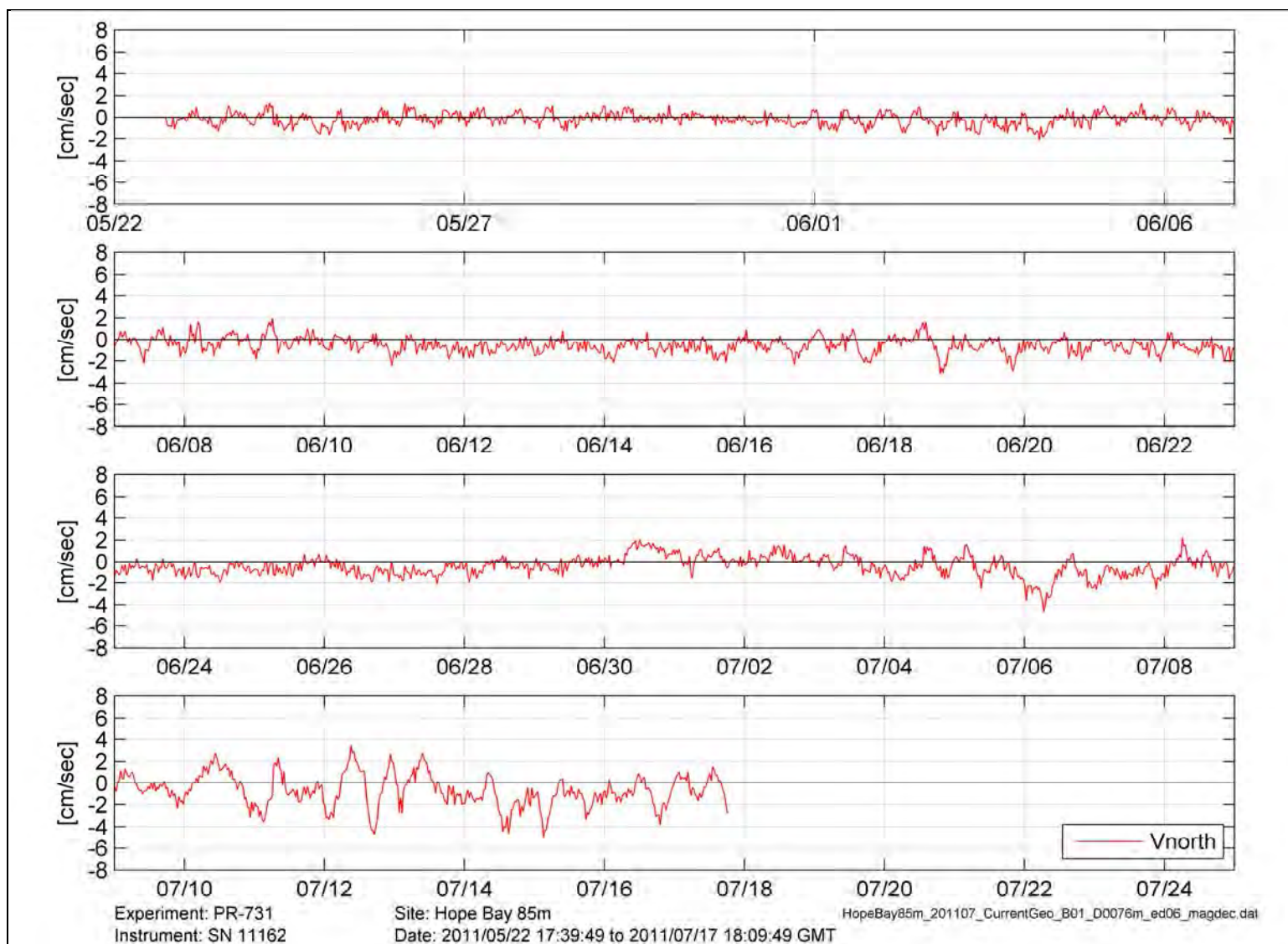


Table A3-3.27. Summary Statistics for Data Measured at each Depth for May 22 - July 17 at the 85 m Site

Depth (m)		Min	1%	5%	25%	50%	Mean	75%	95%	99%	Std	Max	# Valid	Total #
16	Veast	-3.24	-2.42	-1.64	-0.67	0.11	0.11	0.79	1.88	3.22	1.11	6.21	2,690	2,690
	Vnorth	-3.98	-2.81	-1.79	-0.63	0.11	0.17	0.94	2.22	3.64	1.26	5.66		
	Speed	0.00	0.14	0.36	0.86	1.33	1.46	1.90	3.00	4.42	0.85	6.24		
34	Veast	-2.64	-2.12	-1.50	-0.78	-0.27	-0.25	0.27	1.10	1.68	0.79	2.95	2,690	2,690
	Vnorth	-4.08	-2.64	-1.67	-0.73	-0.15	-0.15	0.41	1.39	2.40	0.96	4.05		
	Speed	0.00	0.10	0.28	0.63	1.00	1.10	1.43	2.34	3.18	0.65	4.11		
58	Veast	-3.11	-1.60	-1.07	-0.47	0.02	0.01	0.46	1.13	1.76	0.69	2.32	2,690	2,690
	Vnorth	-5.46	-2.84	-1.84	-0.81	-0.18	-0.23	0.35	1.25	1.94	0.95	3.29		
	Speed	0.00	0.10	0.22	0.58	0.90	1.02	1.33	2.20	3.01	0.63	5.50		
76	Veast	-2.82	-1.40	-0.81	-0.12	0.33	0.33	0.80	1.44	1.96	0.70	2.87	2,690	2,690
	Vnorth	-5.00	-3.30	-1.93	-0.98	-0.42	-0.45	0.10	1.01	1.80	0.94	3.39		
	Speed	0.00	0.10	0.22	0.63	1.00	1.11	1.43	2.33	3.38	0.68	5.03		

Joint Frequency Tables

Table A3-3.28. Joint Frequency Table for Data Measured at 16 m Depth for May 22 - July 17 at the 85 m Site

Location: Hope Bay 85m
 Instrument: SN 11162
 For period: 2011/05/22 17:39:49 to 2011/07/17 18:09:49
 Sample interval: 30 min

			Speed (cm/s)								Row Total (%)
			0.0 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	7.0 to 8.0	
Direction (deg)											
11.25	33.75	NNE	2.79	4.68	2.23	0.41	0.11	0.04			10.26
33.75	56.25	NE	1.90	3.90	1.41	0.26	0.15	0.04			7.66
56.25	78.75	ENE	2.71	3.20	0.93	0.19					7.03
78.75	101.25	E	1.56	2.49	0.78	0.19	0.04	0.04	0.04		5.13
101.25	123.75	ESE	2.34	2.68	0.86	0.45	0.22	0.04			6.58
123.75	146.25	SE	1.38	2.08	0.67	0.11	0.26	0.04			4.54
146.25	168.75	SSE	2.04	2.79	1.00	0.19	0.07				6.10
168.75	191.25	S	1.34	2.30	0.86	0.11					4.61
191.25	213.75	SSW	2.04	3.35	0.74	0.26	0.04				6.43
213.75	236.25	SW	1.64	2.71	1.00	0.26					5.61
236.25	258.75	WSW	2.19	2.64	0.56						5.39
258.75	281.25	W	1.75	3.27	0.82	0.07					5.91
281.25	303.75	WNW	2.16	3.61	0.97	0.04					6.77
303.75	326.25	NW	1.23	2.71	0.45	0.04					4.42
326.25	348.75	NNW	1.78	2.45	0.82	0.07	0.07				5.20
348.75	11.25	N	1.60	3.42	2.12	0.74	0.30	0.19			8.36
Column Total (%)			30.45	48.29	16.21	3.38	1.26	0.37	0.04	0.00	

Filename: HopeBay85m_201107_CurrentGeo_B21_D0016m_ed08_magdec.dat
 Max Speed: 6.24 cm/s # non-flagged records: 2690
 Mean Speed: 1.46 cm/s # flagged records: 0
 Vector-averaged Speed: 0.20 cm/s at 31.43 deg

Table A3-3.29. Joint Frequency Table for Data Measured at 34 m Depth for May 22 - July 17 at the 85 m Site

Location: Hope Bay 85m
Instrument: SN 11162
For period: 2011/05/22 17:39:49 to 2011/07/17 18:09:49
Sample interval: 30 min

			Speed (cm/s)							Row Total (%)
			0.0 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	
Direction (deg)										
11.25	33.75	NNE	3.01	2.27	0.52	0.11				5.91
33.75	56.25	NE	1.60	1.08	0.11					2.79
56.25	78.75	ENE	2.16	0.93	0.04					3.12
78.75	101.25	E	1.41	1.00	0.07					2.49
101.25	123.75	ESE	2.94	1.64	0.26	0.04				4.87
123.75	146.25	SE	2.71	1.97	0.41	0.07				5.17
146.25	168.75	SSE	3.53	2.60	0.86	0.30				7.29
168.75	191.25	S	2.42	2.90	0.78	0.22	0.04			6.36
191.25	213.75	SSW	4.57	4.46	0.97	0.11				10.11
213.75	236.25	SW	2.71	4.01	0.67	0.07				7.47
236.25	258.75	WSW	4.87	4.98	0.56					10.41
258.75	281.25	W	3.05	2.83	0.41					6.28
281.25	303.75	WNW	5.35	3.79	0.56					9.70
303.75	326.25	NW	3.05	2.86	0.30	0.11				6.32
326.25	348.75	NNW	3.75	2.53	0.63	0.15	0.04			7.10
348.75	11.25	N	1.97	1.86	0.63	0.07	0.07			4.61
Column Total (%)			49.11	41.71	7.77	1.26	0.15	0.00	0.00	0.00

Filename: HopeBay85m_201107_CurrentGeo_B15_D0034m_ed07_magdec.dat
Max Speed: 4.11 cm/s # non-flagged records: 2690
Mean Speed: 1.10 cm/s # flagged records: 0
Vector-averaged Speed: 0.28 cm/s at 239.28 deg

Table A3-3.30. Joint Frequency Table for Data Measured at 58 m Depth for May 22 - July 17 at the 85 m Site

Location: Hope Bay 85m
Instrument: SN 11162
For period: 2011/05/22 17:39:49 to 2011/07/17 18:09:49
Sample interval: 30 min

			Speed (cm/s)							Row Total (%)
			0.0 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	
Direction (deg)										
11.25	33.75	NNE	3.94	2.60	0.89					7.43
33.75	56.25	NE	2.90	2.12	0.37					5.39
56.25	78.75	ENE	4.57	1.41	0.26					6.25
78.75	101.25	E	2.04	1.04	0.19					3.27
101.25	123.75	ESE	4.80	1.78	0.15					6.73
123.75	146.25	SE	3.09	2.04	0.45	0.04				5.61
146.25	168.75	SSE	5.50	3.61	0.78	0.30				10.19
168.75	191.25	S	2.12	3.61	1.04	0.33	0.11	0.07		7.29
191.25	213.75	SSW	5.24	5.32	1.56	0.11				12.23
213.75	236.25	SW	2.94	2.86	0.48					6.28
236.25	258.75	WSW	4.57	2.04	0.15	0.04				6.80
258.75	281.25	W	2.64	1.34						3.98
281.25	303.75	WNW	3.75	1.08						4.83
303.75	326.25	NW	2.38	1.38	0.11					3.87
326.25	348.75	NNW	3.61	2.04	0.15	0.04				5.84
348.75	11.25	N	1.82	2.01	0.19					4.01
Column Total (%)			55.91	36.28	6.77	0.86	0.11	0.07	0.00	0.00

Filename: HopeBay85m_201107_CurrentGeo_B07_D0058m_ed06_magdec.dat
Max Speed: 5.50 cm/s # non-flagged records: 2690
Mean Speed: 1.02 cm/s # flagged records: 0
Vector-averaged Speed: 0.23 cm/s at 177.54 deg

Table A3-3.31. Joint Frequency Table for Data Measured at 76 m Depth for May 22 - July 17 at the 85 m Site

Location: Hope Bay 85m
Instrument: SN 11162
For period: 2011/05/22 17:39:49 to 2011/07/17 18:09:49
Sample interval: 30 min

			Speed (cm/s)							Row Total (%)
			0.0 to 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	5.0 to 6.0	6.0 to 7.0	
Direction (deg)										
11.25	33.75	NNE	3.98	0.93	0.11					5.02
33.75	56.25	NE	2.04	1.26	0.04					3.35
56.25	78.75	ENE	3.46	1.38	0.04					4.87
78.75	101.25	E	3.57	3.01	0.22					6.80
101.25	123.75	ESE	6.32	6.06	0.74	0.04				13.16
123.75	146.25	SE	4.39	7.03	1.49	0.19				13.09
146.25	168.75	SSE	5.95	7.06	1.52	0.45	0.15			15.13
168.75	191.25	S	3.46	4.61	1.30	0.59	0.26	0.04		10.26
191.25	213.75	SSW	4.87	3.05	0.52	0.11	0.04			8.59
213.75	236.25	SW	1.60	1.49	0.15					3.23
236.25	258.75	WSW	1.86	0.48	0.04					2.38
258.75	281.25	W	1.15	0.26	0.04					1.45
281.25	303.75	WNW	2.42	0.86	0.04					3.31
303.75	326.25	NW	1.56	0.82	0.19	0.07				2.64
326.25	348.75	NNW	1.93	1.38	0.33	0.04				3.68
348.75	11.25	N	1.41	1.38	0.26					3.05
Column Total (%)			49.96	41.04	7.03	1.49	0.45	0.04	0.00	0.00

Filename: HopeBay85m_201107_CurrentGeo_B01_D0076m_ed06_magdec.dat
Max Speed: 5.02 cm/s # non-flagged records: 2690
Mean Speed: 1.11 cm/s # flagged records: 0
Vector-averaged Speed: 0.56 cm/s at 143.87 deg

Compass Plots

Figure A3-3.41. Compass Plot at 16 m Depth for May 22 - July 17 at the 85 m Site

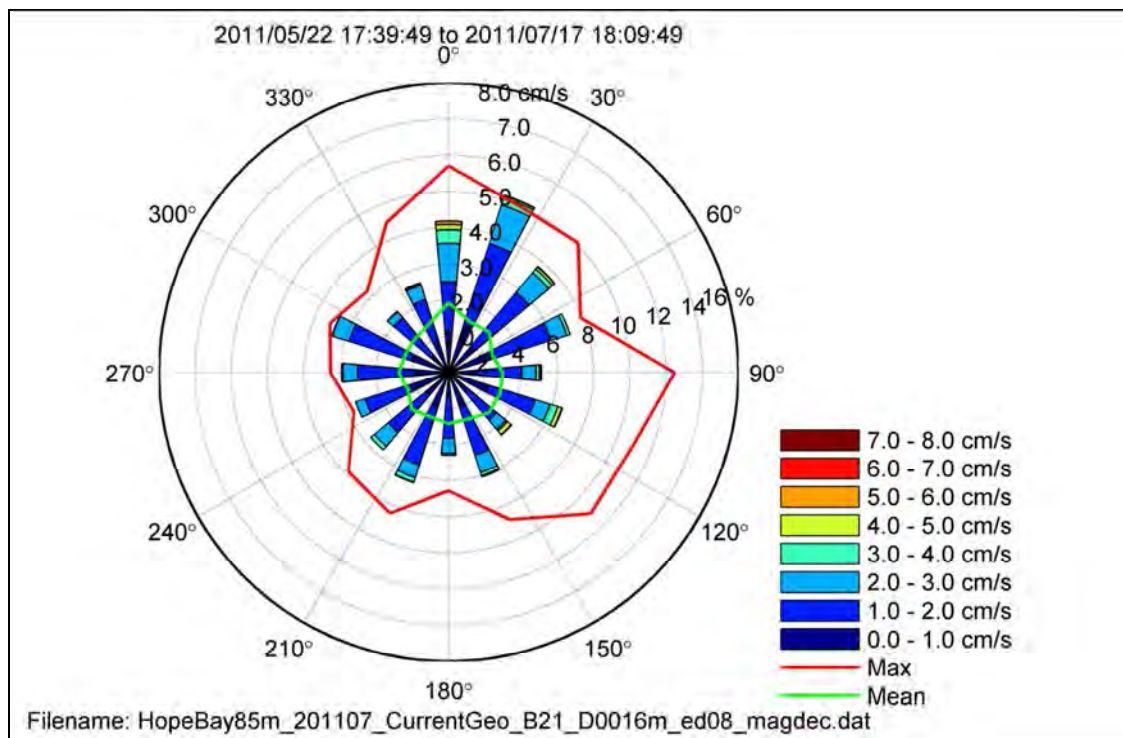


Figure A3-3.42. Compass Plot at 34 m Depth for May 22 - July 17 at the 85 m Site

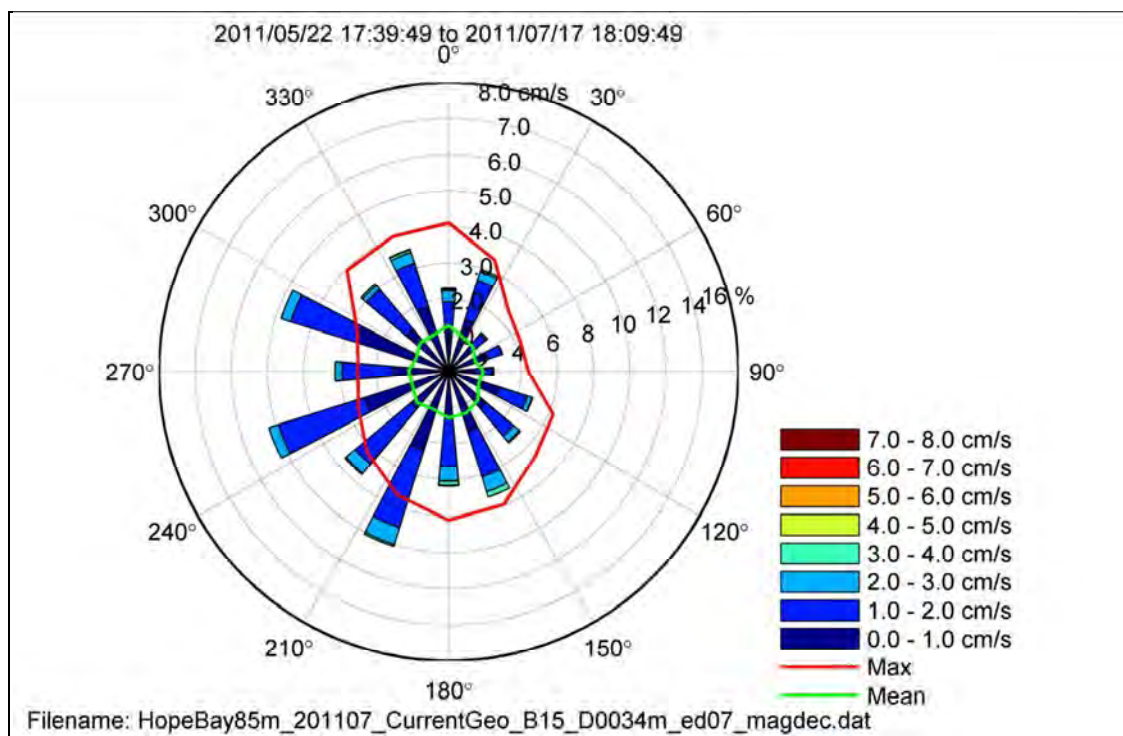


Figure A3-3.43. Compass Plot at 58 m Depth for May 22 - July 17 at the 85 m Site

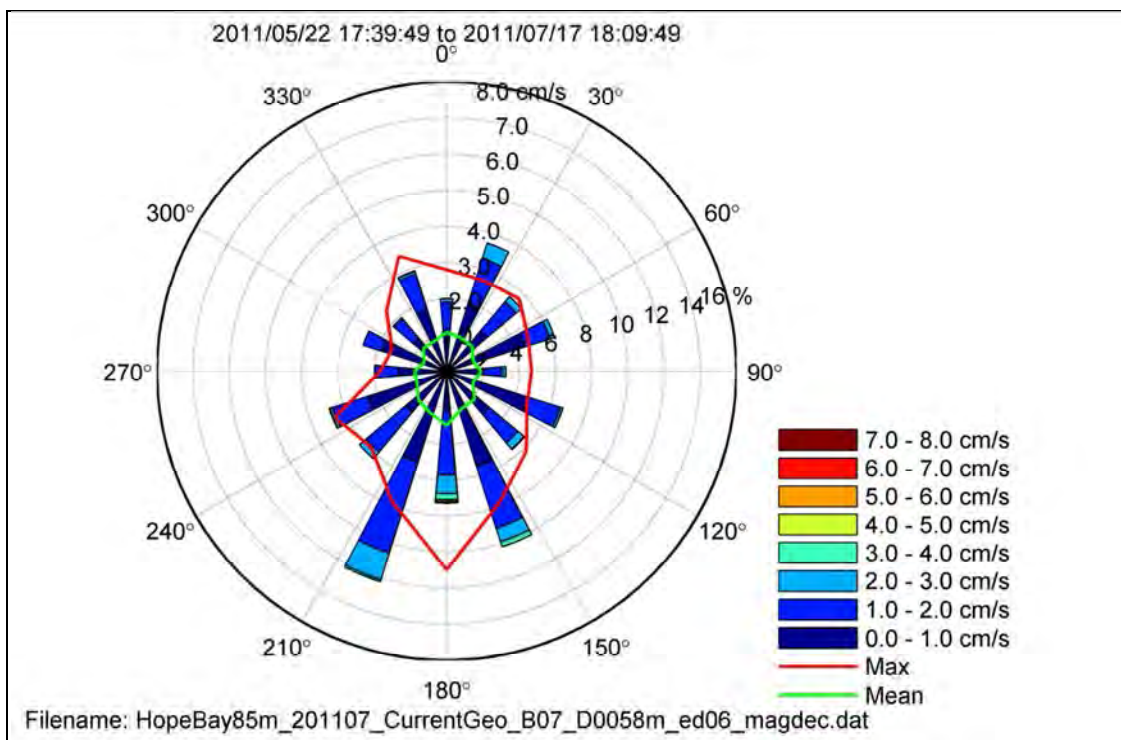
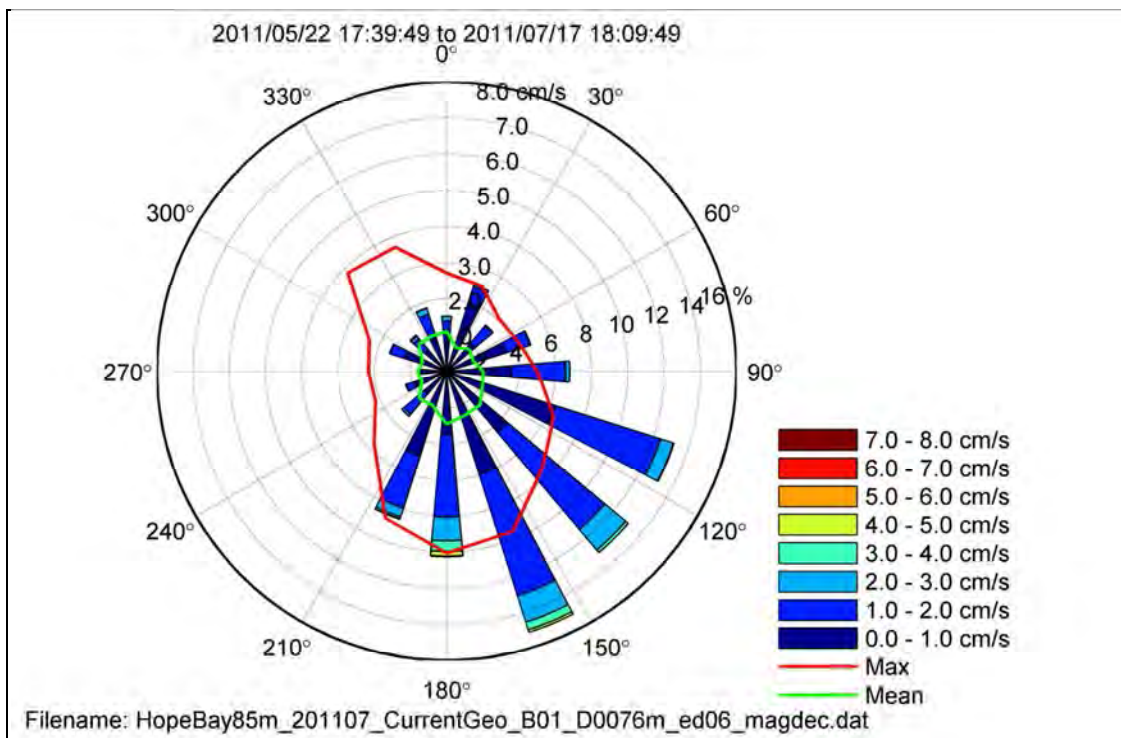


Figure A3-3.44. Compass Plot at 76 m Depth for May 22 - July 17 at the 85 m Site



3-3.2.5 July 17 - October 4 Deployment

Current bins corresponding to 17 m, 34 m and 58 m depths were selected for processing. Near the bottom of the water column, a lack of scatterers prevented the ADCP from obtaining reliable current velocities. Bins of variable depths (between 66-72 m) were chosen to capture significant events nearest the bottom whenever possible. Figure A3-3.45 presents a time-series of the variability in depth chosen for the near bottom current processing.

The number of points edited using the quality control procedures described in Section 3-3.2.1 is listed in Table A3-3.32. A time series plot of each velocity component at each depth is shown in Figure A3-3.46 through Figure A3-3.53.

Statistics computed for each depth are shown in Table A3.3-33. Speed and direction joint frequency tables are presented in Table A3-3.34 through Table A3-3.37 and are further illustrated with compass plots in Figure A3-3.54 through Figure A3-3.57. The color of each segment in the compass plots denotes its speed interval. The radial length of each segment denotes the proportion of measurements within the illustrated speed and direction interval. The maximum and mean are illustrated through the second radial scale as the red and light green lines respectively for clear viewing.

Measurement Statistics

Table A3-3.32. Summary of Points Edited at Each Depth for July 17 - Oct 4 at the 85 m Site

	Veast				Vnorth			
	17 m	34 m	58 m	** Near Bottom	17 m	34 m	58 m	** Near Bottom
Out of Range	0	0	0	-	0	0	0	-
Single Spike	26	0	0	-	18	0	0	-
Double Spike	0	0	0	-	0	0	0	-
Triple Spike	0	0	0	-	0	0	0	-
Quad. Spike	0	0	0	-	0	0	0	-
Manual Edit	13	2	0	-	9	0	0	-
Verror >1+0	0	0	0	-	0	0	0	-
% Edit	0.69 %	0.02 %	0.00 %	-	0.48 %	0.00 %	0.00 %	-
Total Pts	5,675		11,351		5,675		11,351	

Current Time-Series

Figure A3-3.45. Time-Series Plot of the Depths Used for the Near Bottom Current Processing for July 17 - October 4 at the 85 m Site

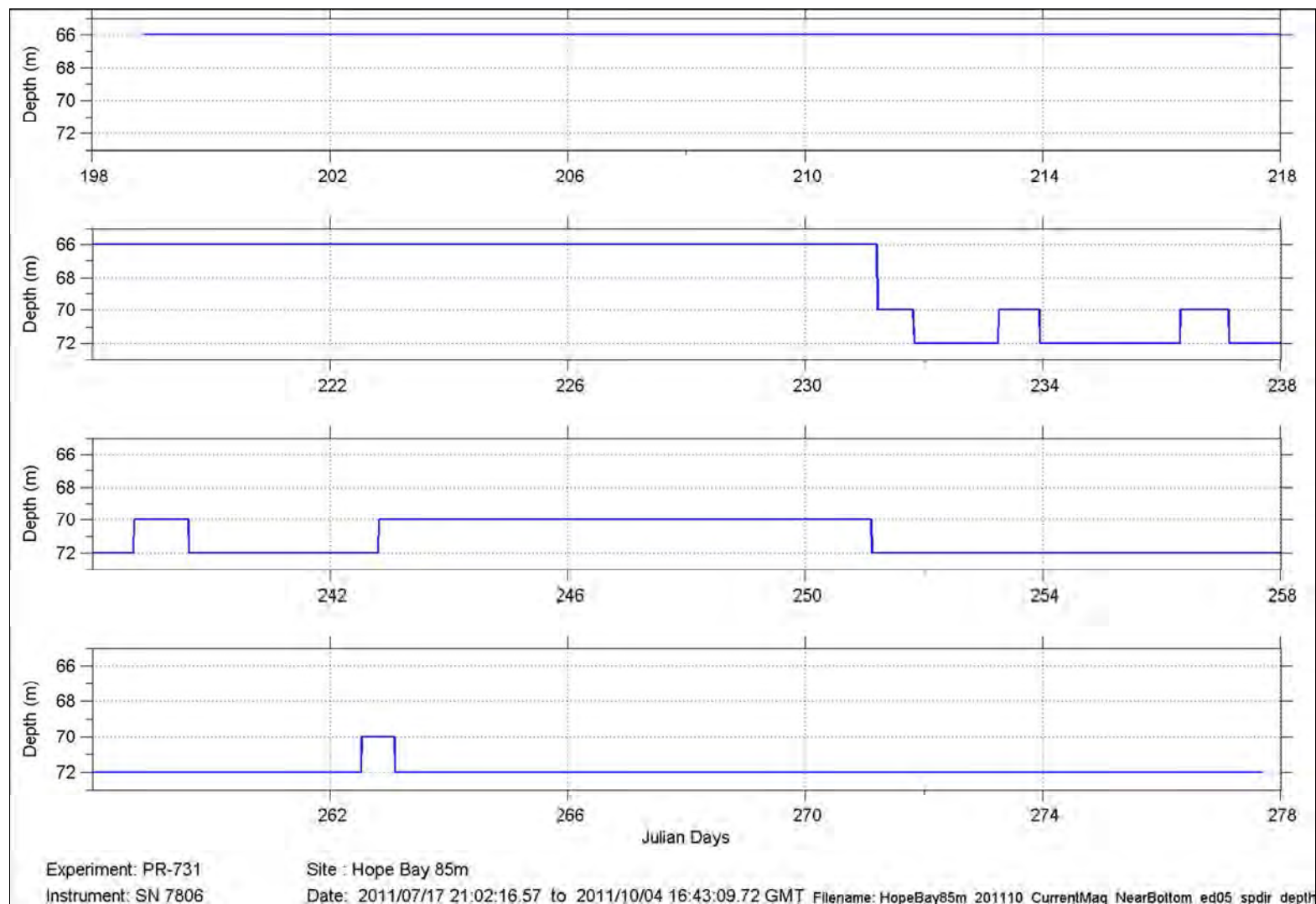


Figure A3-3.46. Time-series Plot of the East Velocity Component at 17 m Depth for July 17 - October 4 at the 85 m Site

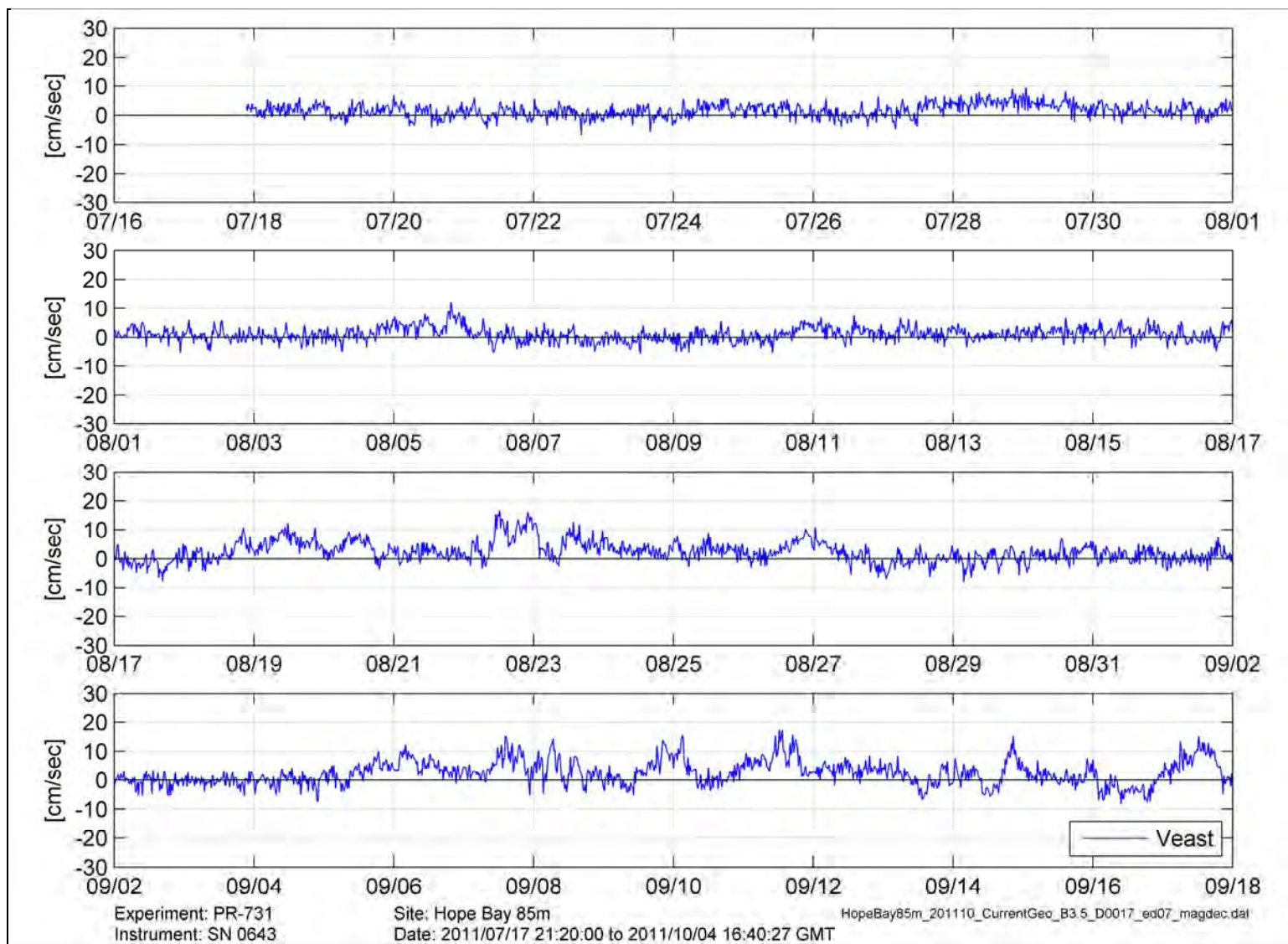


Figure A3-3.47. Time-series Plot of the North Velocity Component at 17 m Depth for July 17 - October 4 at the 85 m Site

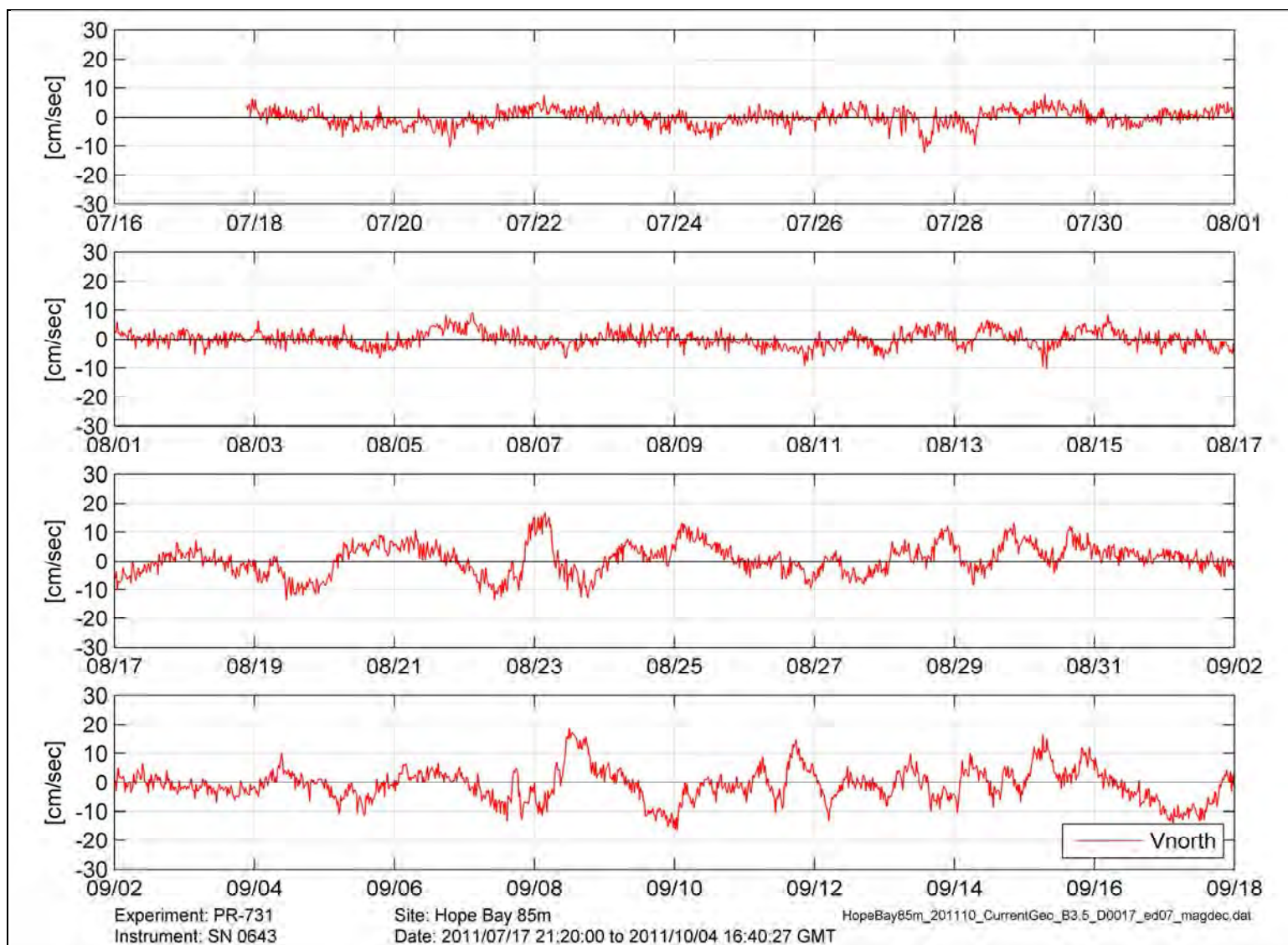


Figure A3-3.48. Time-series Plot of the East Velocity Component at 34 m Depth for July 17 - October 4 at the 85 m Site

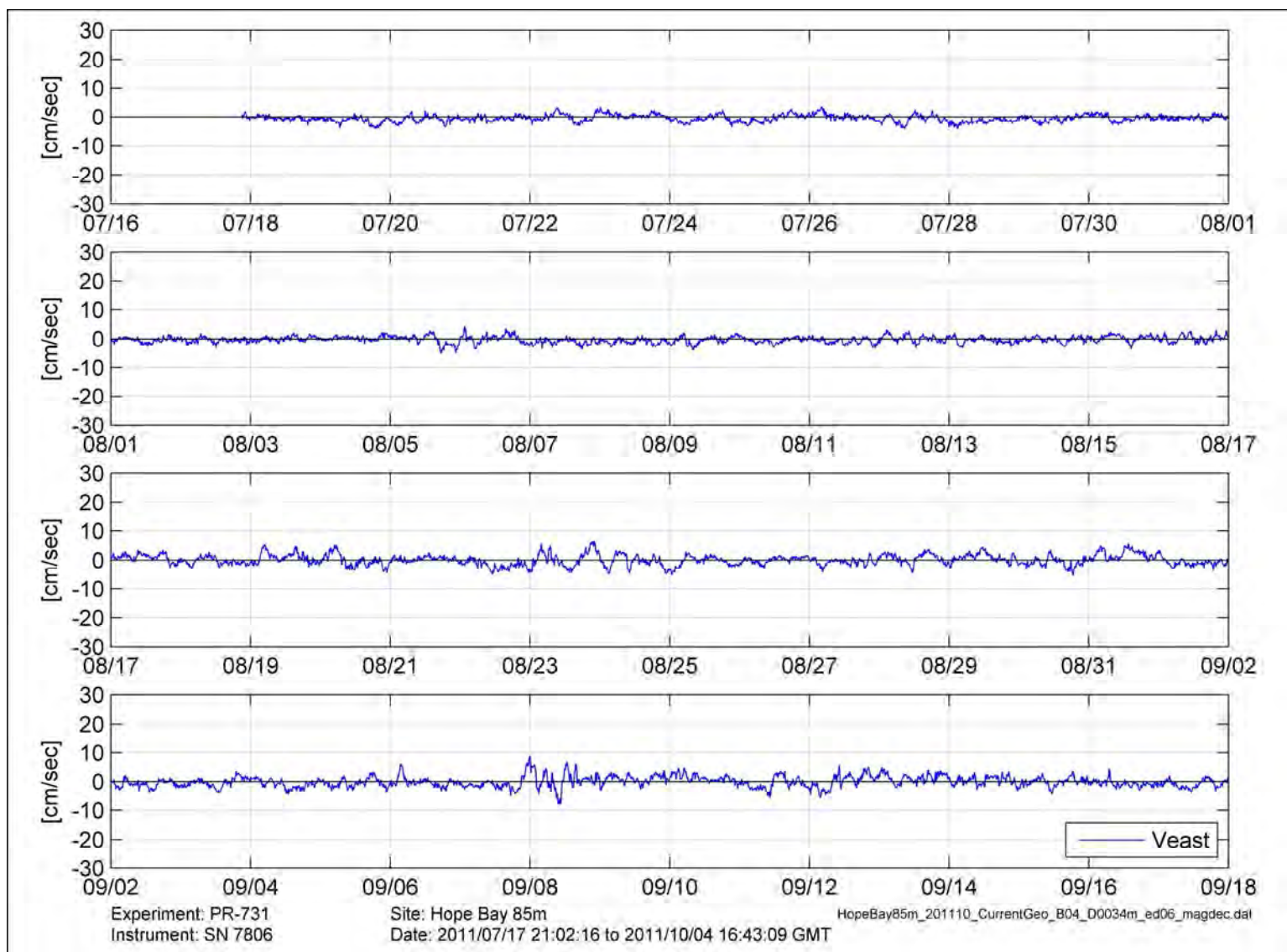


Figure A3-3.49. Time-series Plot of the North Velocity Component at 34 m Depth for July 17 - October 4 at the 85 m Site

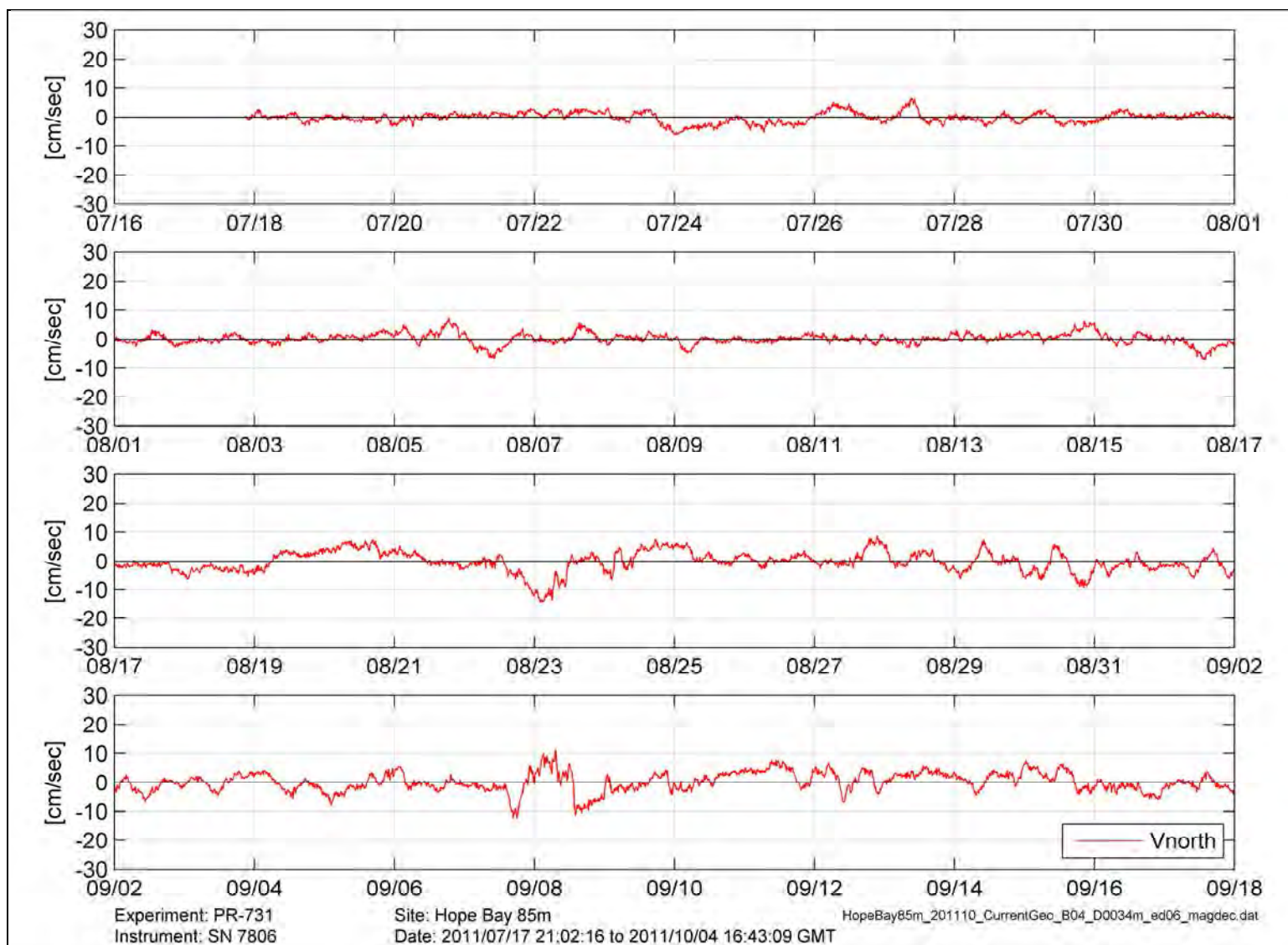


Figure A3-3.50. Time-series Plot of the East Velocity Component at 58 m Depth for July 17 - October 4 at the 85 m Site

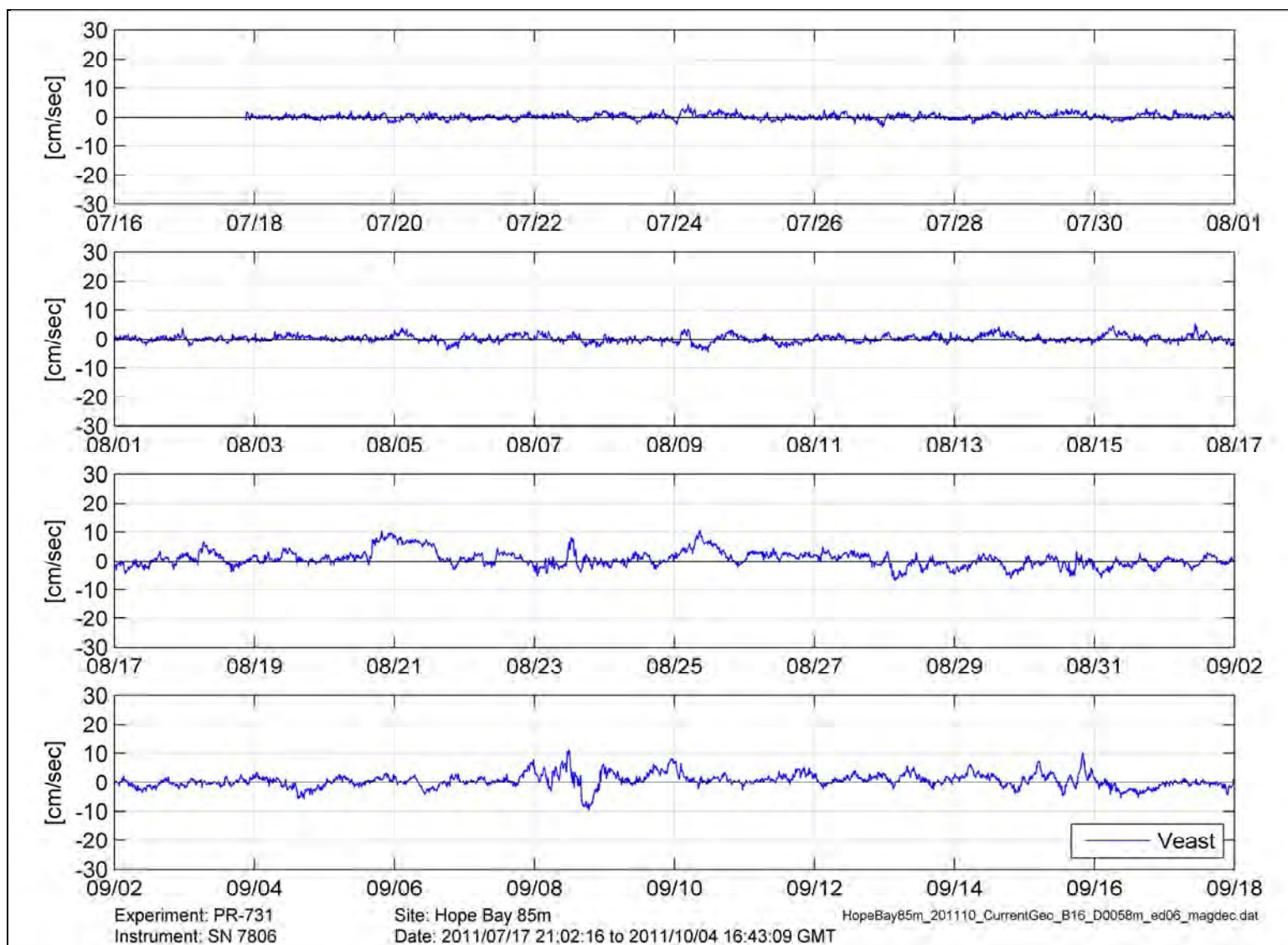


Figure A3-3.51. Time-series Plot of the North Velocity Component at 58 m Depth for July 17 - October 4 at the 85 m Site

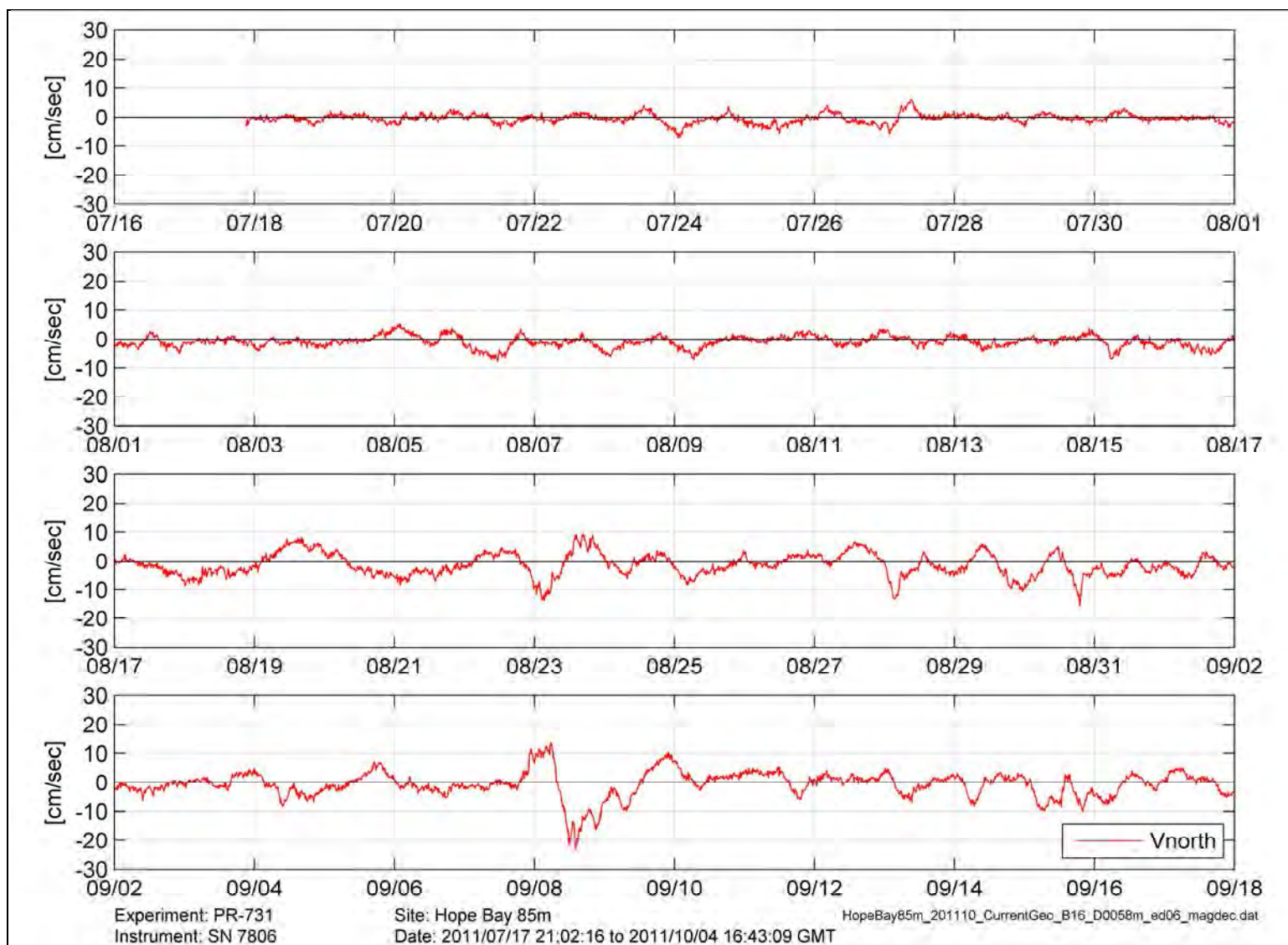


Figure A3-3.52. Time-series Plot of the East Velocity Component at Near Bottom Depth for July 17 - October 4 at the 85 m Site

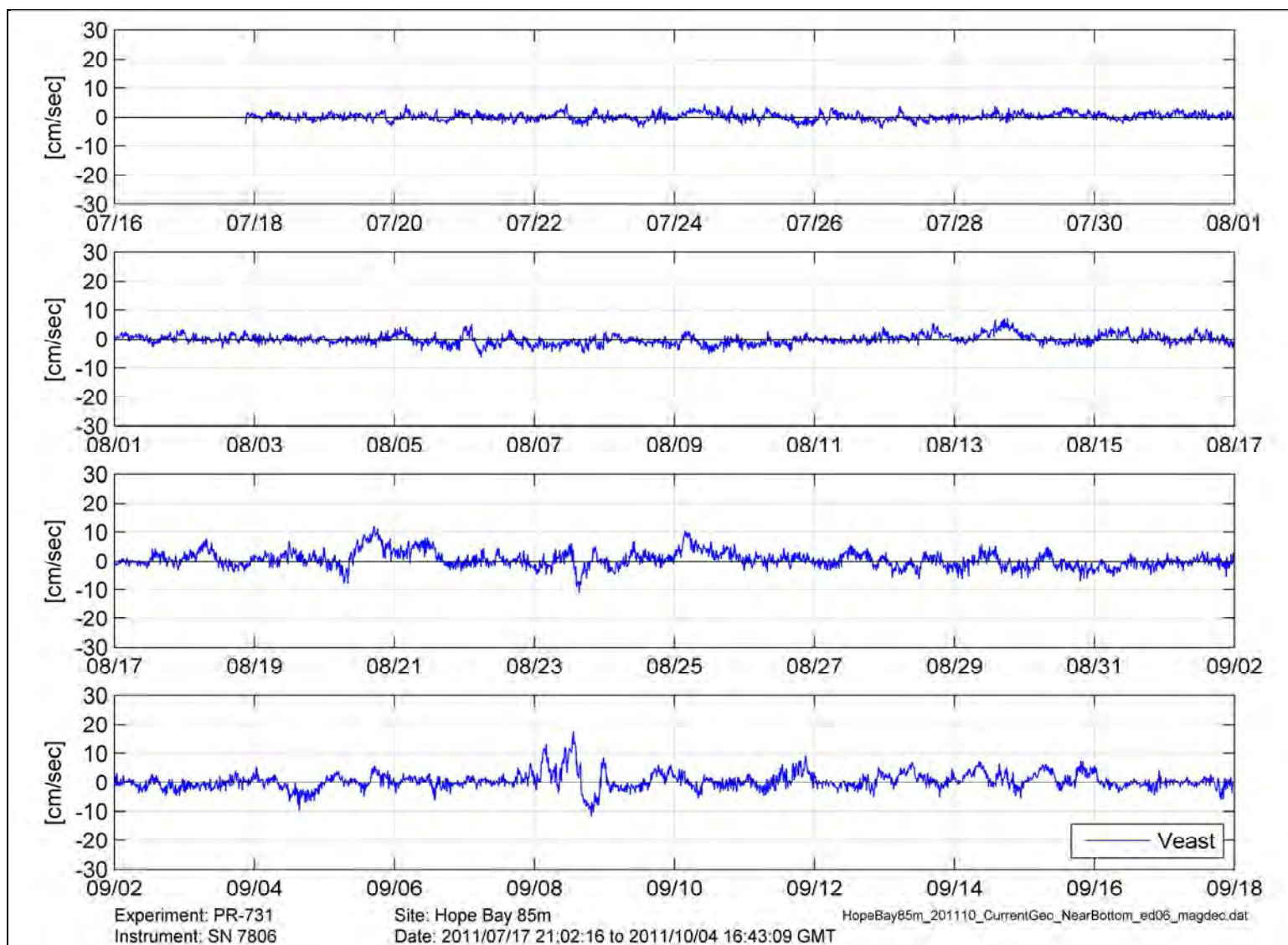
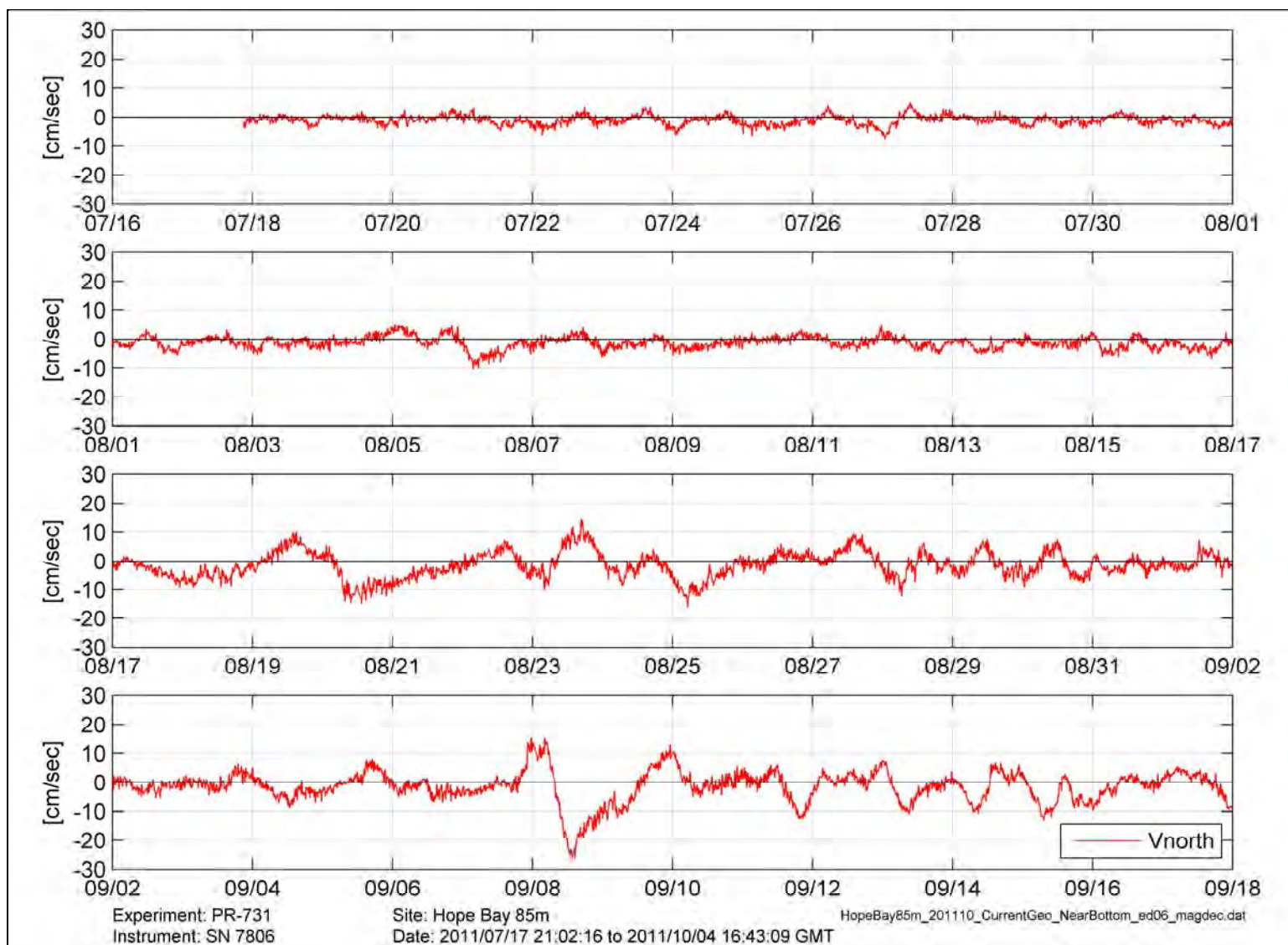


Figure A3-3.53. Time-series Plot of the North Velocity Component at Near Bottom Depth for July 17 - October 4 at the 85 m Site



Compass Plots

Figure A3-3.54. Compass Plot at 17 m Depth for July 17 - October 4 at the 85 m Site

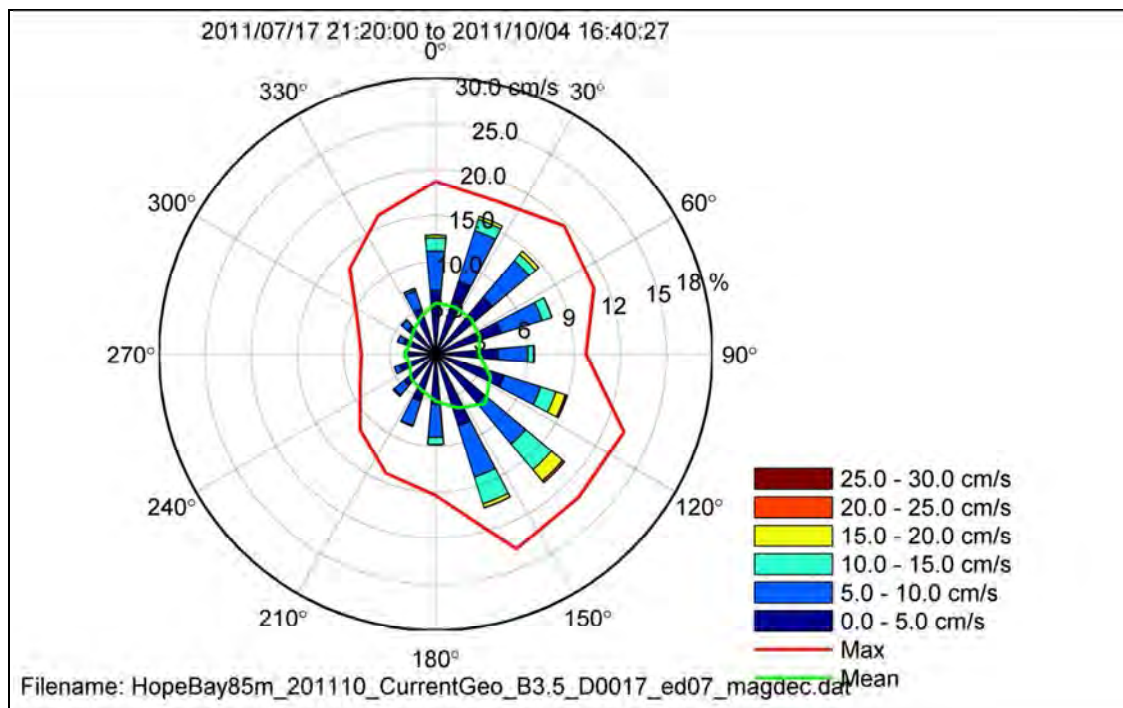


Figure A3-3.55. Compass Plot at 34 m Depth for July 17 - October 4 at the 85 m Site

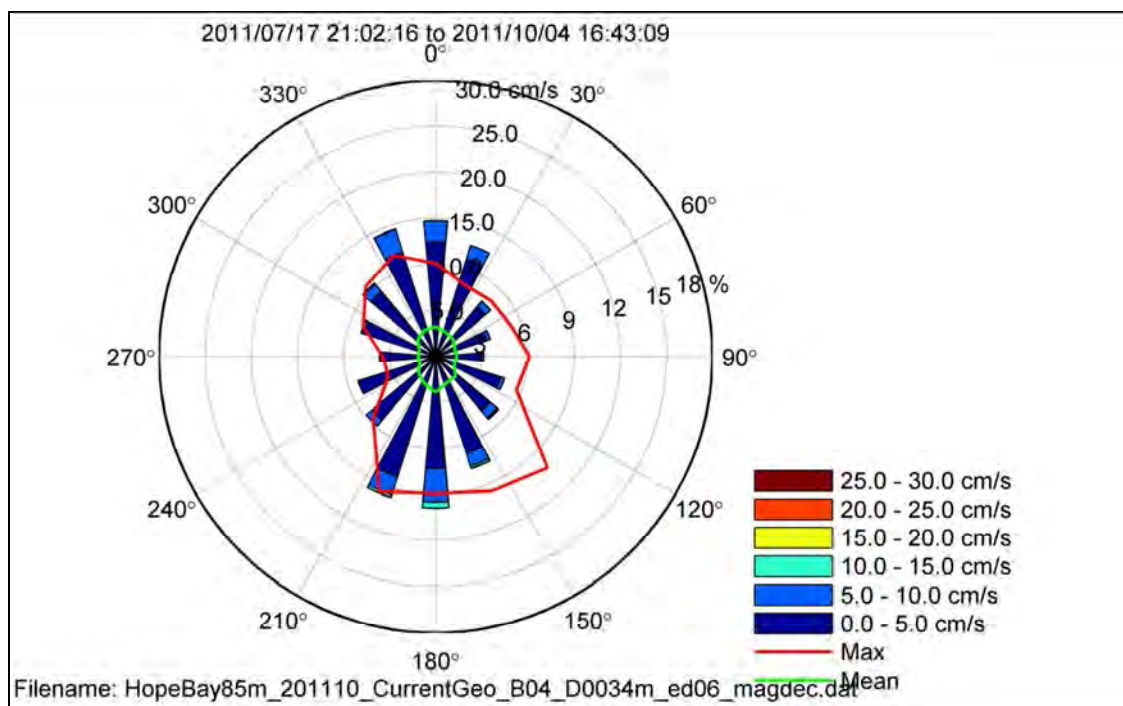


Figure A3-3.56. Compass Plot at 58 m Depth for July 17 - October 4 at the 85 m Site

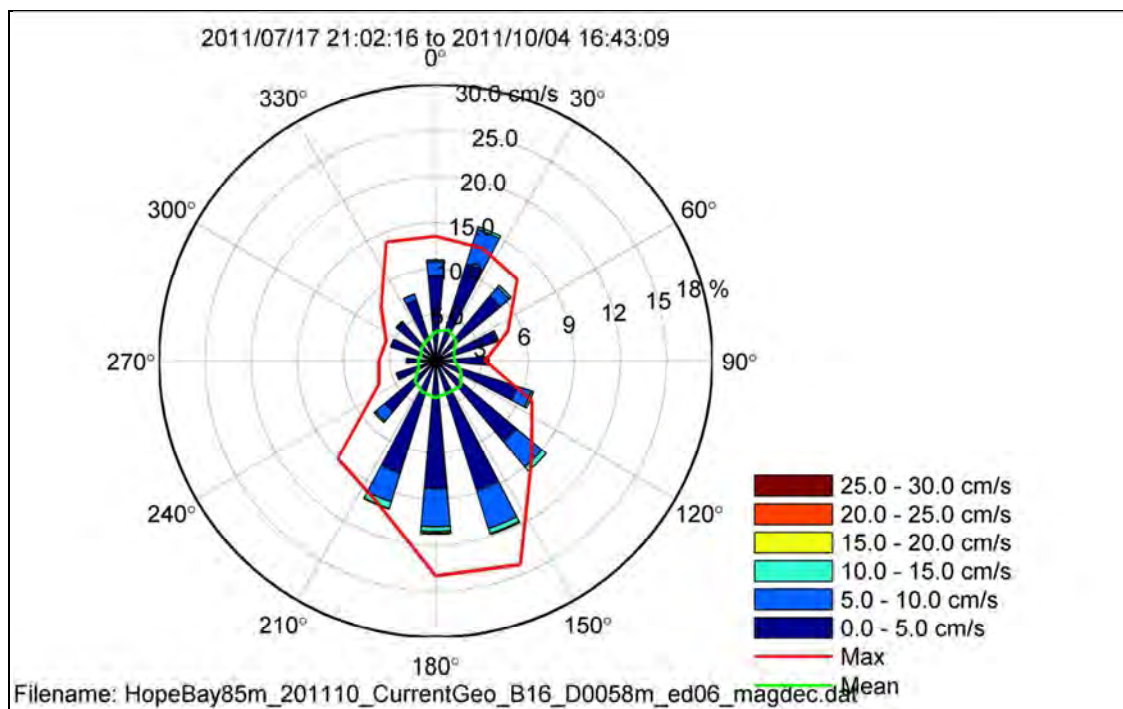


Figure A3-3.57. Compass Plot at Near Bottom Depth for July 17 - October 4 at the 85 m Site

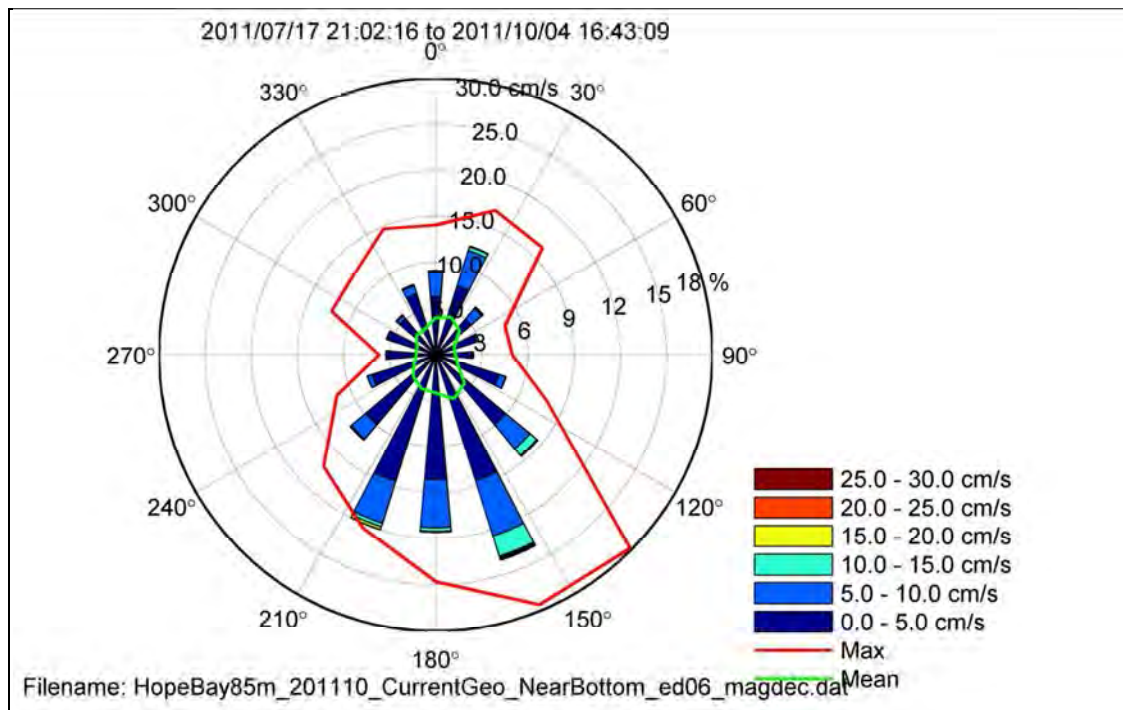


Table A3-3.33. Summary Statistics for Data Measured at Each Depth for July 17 - Oct 4 at the 85 m Site

Depth (m)		Min	1%	5%	25%	50%	Mean	75%	95%	99%	Std	Max	# Valid	Total #
17	Veast	-10.28	-5.48	-3.33	-0.39	1.65	2.07	3.93	9.22	14.26	3.82	20.37	5,675	5,675
	Vnorth	-19.61	-12.68	-9.10	-3.18	-0.19	-0.38	2.63	7.55	11.75	4.91	18.57		
	Speed	0.07	0.49	1.10	2.69	4.44	5.38	7.02	13.15	17.82	3.76	22.89		
34	Veast	-8.00	-4.08	-2.77	-1.18	-0.16	-0.07	0.92	2.93	4.86	1.80	12.96	11,351	11,351
	Vnorth	-15.47	-9.18	-5.07	-1.77	-0.11	-0.18	1.58	4.56	6.65	2.97	11.22		
	Speed	0.00	0.22	0.54	1.41	2.38	2.83	3.71	6.63	10.00	2.02	17.14		
58	Veast	-9.79	-4.37	-2.64	-0.61	0.40	0.55	1.60	4.00	7.27	2.09	11.17	11,351	11,351
	Vnorth	-23.21	-10.68	-6.44	-2.55	-0.64	-0.81	1.12	4.47	7.52	3.42	13.57		
	Speed	0.00	0.22	0.58	1.44	2.51	3.22	4.19	8.32	12.43	2.58	23.94		
Near Bottom	Veast	-11.57	-5.08	-3.25	-1.13	0.15	0.28	1.54	4.29	7.13	2.37	17.49	11,351	11,351
	Vnorth	-26.24	-12.07	-7.83	-3.22	-1.15	-1.26	0.82	5.14	8.48	3.93	15.41		
	Speed	0.00	0.30	0.70	1.73	2.96	3.74	4.84	9.31	14.07	2.96	29.81		

Joint Frequency Tables

Table A3-3.34. Joint Frequency Table for Data Measured at 17 m Depth for July 17 - October 4 at the 85 m Site

Location: Hope Bay 85m
Instrument: SN 0643
For period: 2011/07/17 21:20:00 to 2011/10/04 16:40:27
Sample interval: 2.000008e+001 min

			Speed (cm/s)						Row Total (%)
			0.0 to 5.0	5.0 to 10.0	10.0 to 15.0	15.0 to 20.0	20.0 to 25.0	25.0 to 30.0	
Direction (deg)									
11.25	33.75	NNE	4.97	3.45	0.76	0.21			9.39
33.75	56.25	NE	4.83	3.12	0.53	0.28			8.76
56.25	78.75	ENE	4.48	2.78	0.65	0.02			7.93
78.75	101.25	E	4.05	1.94	0.39	0.05			6.43
101.25	123.75	ESE	4.67	2.48	1.04	0.65	0.12		8.97
123.75	146.25	SE	4.16	3.47	2.20	0.95	0.16		10.94
146.25	168.75	SSE	4.90	3.51	1.81	0.26	0.02		10.50
168.75	191.25	S	3.24	2.17	0.48	0.02			5.90
191.25	213.75	SSW	3.21	1.66	0.07				4.93
213.75	236.25	SW	2.70	0.81	0.11				3.61
236.25	258.75	WSW	2.43	0.39					2.82
258.75	281.25	W	1.73	0.32					2.04
281.25	303.75	WNW	2.20	0.41					2.61
303.75	326.25	NW	2.36	0.51	0.05				2.93
326.25	348.75	NNW	3.07	1.23	0.14	0.04			4.48
348.75	11.25	N	4.11	2.61	0.86	0.18			7.75
Column Total (%)			57.09	30.85	9.09	2.66	0.30	0.00	

Filename: HopeBay85m_201110_CurrentGeo_B3.5_D0017_ed07_magdec.dat
Max Speed: 22.89 cm/s # non-flagged records: 5675
Mean Speed: 5.38 cm/s # flagged records: 0
Vector-averaged Speed: 2.11 cm/s at 100.30 deg

Table A3-3.35. Joint Frequency Table for Data Measured at 34 m Depth for July 17 - October 4 at the 85 m Site

Location: Hope Bay 85m
Instrument: SN 7806
For period: 2011/07/17 21:02:16 to 2011/10/04 16:43:09
Sample interval: 1.000008e+001 min

			Speed (cm/s)						Row Total (%)
			0.0 to 5.0	5.0 to 10.0	10.0 to 15.0	15.0 to 20.0	20.0 to 25.0	25.0 to 30.0	
Direction (deg)									
11.25	33.75	NNE	6.63	0.93					7.57
33.75	56.25	NE	4.20	0.46					4.66
56.25	78.75	ENE	3.47	0.26					3.73
78.75	101.25	E	2.94	0.19	0.01				3.14
101.25	123.75	ESE	4.44	0.26					4.70
123.75	146.25	SE	4.63	0.57	0.04	0.10			5.34
146.25	168.75	SSE	6.62	0.89	0.15	0.03			7.68
168.75	191.25	S	7.33	2.17	0.40				9.89
191.25	213.75	SSW	8.23	1.25	0.17	0.01			9.66
213.75	236.25	SW	5.42	0.48					5.89
236.25	258.75	WSW	5.27	0.03					5.29
258.75	281.25	W	3.64	0.01					3.65
281.25	303.75	WNW	4.95	0.14					5.09
303.75	326.25	NW	5.50	0.63	0.07				6.20
326.25	348.75	NNW	7.10	1.55	0.04				8.69
348.75	11.25	N	7.46	1.35	0.01				8.82
Column Total (%)			87.82	11.16	0.88	0.13	0.00	0.00	

Filename: HopeBay85m_201110_CurrentGeo_B04_D0034m_ed06_magdec.dat
Max Speed: 17.14 cm/s # non-flagged records: 11351
Mean Speed: 2.83 cm/s # flagged records: 0
Vector-averaged Speed: 0.19 cm/s at 201.35 deg

Table A3-3.36. Joint Frequency Table for Data Measured at 58 m Depth for July 17 - October 4 at the 85 m Site

Location: Hope Bay 85m
Instrument: SN 7806
For period: 2011/07/17 21:02:16 to 2011/10/04 16:43:09
Sample interval: 1.000008e+001 min

			Speed (cm/s)						Row Total (%)
			0.0 to 5.0	5.0 to 10.0	10.0 to 15.0	15.0 to 20.0	20.0 to 25.0	25.0 to 30.0	
Direction (deg)									
11.25	33.75	NNE	6.62	2.35	0.18				9.15
33.75	56.25	NE	5.48	0.77	0.16				6.40
56.25	78.75	ENE	4.13	0.15					4.28
78.75	101.25	E	3.43	0.04					3.46
101.25	123.75	ESE	5.55	0.96	0.15				6.66
123.75	146.25	SE	6.86	2.16	0.35				9.37
146.25	168.75	SSE	8.84	2.60	0.33	0.04	0.04		11.85
168.75	191.25	S	8.33	2.46	0.30	0.13	0.06		11.29
191.25	213.75	SSW	7.67	1.95	0.45	0.04			10.11
213.75	236.25	SW	4.32	0.78	0.12	0.01			5.23
236.25	258.75	WSW	2.58	0.11					2.70
258.75	281.25	W	1.88	0.02					1.89
281.25	303.75	WNW	3.04	0.03					3.07
303.75	326.25	NW	3.28	0.10					3.37
326.25	348.75	NNW	4.15	0.39	0.02				4.55
348.75	11.25	N	5.55	0.93	0.12				6.60
Column Total (%)			81.71	15.78	2.18	0.23	0.10	0.00	

Filename: HopeBay85m_201110_CurrentGeo_B16_D0058m_ed06_magdec.dat
Max Speed: 23.94 cm/s # non-flagged records: 11351
Mean Speed: 3.22 cm/s # flagged records: 0
Vector-averaged Speed: 0.98 cm/s at 145.84 deg

Table A3-3.37. Joint Frequency Table for Data Measured at Near Bottom Depth for July 17 - October 4 at the 85 m Site

Location: Hope Bay 85m
Instrument: SN 7806
For period: 2011/07/17 21:02:16 to 2011/10/04 16:43:09
Sample interval: 1.000008e+001 min

			Speed (cm/s)						Row Total (%)
			0.0 to 5.0	5.0 to 10.0	10.0 to 15.0	15.0 to 20.0	20.0 to 25.0	25.0 to 30.0	
Direction (deg)									
11.25	33.75	NNE	4.67	2.41	0.26	0.04			7.39
33.75	56.25	NE	3.01	0.90	0.07	0.04			4.03
56.25	78.75	ENE	2.78	0.16					2.93
78.75	101.25	E	2.40	0.06					2.46
101.25	123.75	ESE	4.33	0.46	0.02				4.80
123.75	146.25	SE	5.94	2.07	0.56	0.07	0.01	0.02	8.67
146.25	168.75	SSE	8.62	3.78	1.39	0.10	0.06	0.11	14.06
168.75	191.25	S	8.14	3.14	0.26	0.02	0.04		11.58
191.25	213.75	SSW	8.66	2.87	0.24	0.19	0.01		11.97
213.75	236.25	SW	5.92	1.23	0.05	0.06			7.27
236.25	258.75	WSW	4.33	0.33	0.01				4.67
258.75	281.25	W	3.22	0.03					3.24
281.25	303.75	WNW	3.21	0.13	0.02				3.36
303.75	326.25	NW	3.06	0.24	0.07				3.37
326.25	348.75	NNW	4.11	0.56	0.08				4.75
348.75	11.25	N	3.75	1.59	0.11				5.45
Column Total (%)			76.13	19.97	3.14	0.53	0.11	0.12	

Filename: HopeBay85m_201110_CurrentGeo_NearBottom_ed06_magdec.dat
Max Speed: 29.81 cm/s # non-flagged records: 11351
Mean Speed: 3.74 cm/s # flagged records: 0
Vector-averaged Speed: 1.29 cm/s at 167.38 deg