Appendix A

Supporting Data

2008 PLOO Stations

Oceanographic Conditions

Appendix A.1

Summary of temperature, salinity, density, dissolved oxygen, pH, transmissivity, and chlorophyll *a* at all PLOO stations during 2008. Values are expressed as averages over the entire water column for each survey; data are organized by depth contour, with stations listed north to south.

		Temperature (°C)						Salinity (ppt)			
Contour	**Station**	**Jan**	**Apr**	**Jul**	**Oct**	**Contour**	**Station**	**Jan**	**Apr**	**Jul**	**Oct**
9-m	C6	13.5	13.0	19.1	19.7	**9-m**	C6	33.37	33.92	33.68	33.45
	C5	13.4	13.3	18.4	19.4		C5	33.39	33.92	33.69	33.53
	C4	13.5	12.6	18.1	18.4		C4	33.42	33.89	33.69	33.44
18-m	F03	13.2	13.7	15.2	16.6	**18-m**	F03	33.44	33.80	33.62	33.37
	F02	13.2	12.6	15.1	15.2		F02	33.22	33.84	33.63	33.35
	C8	13.4	11.6	17.7	18.0		C8	33.44	33.91	33.63	33.46
	C7	13.3	11.9	17.0	18.3		C7	33.43	33.97	33.64	33.46
	A6	13.2	11.6	18.0	19.0		A6	33.45	33.94	33.69	33.49
	A7	13.1	12.1	17.2	18.1		A7	33.49	33.92	33.68	33.47
	A1	13.2	11.7	16.2	18.5		A1	33.49	33.89	33.71	33.47
	F01	13.3	12.5	14.6	14.3		F01	33.43	33.86	33.64	33.33
60-m	F14	12.9	10.9	12.7	14.6	**60-m**	F14	33.52	33.91	33.64	33.35
	F13	12.9	10.8	12.6	14.4		F13	33.52	33.91	33.64	33.35
	F12	13.0	10.7	12.7	14.2		F12	33.51	33.90	33.61	33.34
	F11	13.1	10.7	12.7	13.9		F11	33.50	33.89	33.61	33.34
	F10	13.2	10.6	12.8	14.2		F10	33.52	33.88	33.60	33.36
	F09	13.2	10.9	12.6	14.0		F09	33.52	33.88	33.61	33.37
	F08	13.2	10.8	12.4	13.9		F08	33.52	33.89	33.62	33.38
	F07	13.2	10.9	13.4	13.8		F07	33.49	33.87	33.60	33.36
	F06	12.5	11.3	12.7	13.7		F06	33.60	33.87	33.59	33.40
	F05	12.5	11.0	12.9	13.5		F05	33.59	33.86	33.61	33.37
	F04	12.5	10.9	13.3	13.7		F04	33.59	33.84	33.60	33.37
80-m	F15	12.2	11.2	12.2	13.6	**80-m**	F15	33.62	33.85	33.57	33.39
	F16	12.2	11.2	12.4	13.6		F16	33.62	33.85	33.60	33.40
	F17	12.2	11.1	12.4	13.4		F17	33.62	33.86	33.59	33.42
	F18	12.2	11.1	12.4	13.3		F18	33.64	33.87	33.59	33.41
	F19	12.9	10.7	12.3	13.6		F19	33.56	33.88	33.60	33.39
	F20	12.8	10.7	12.5	13.9		F20	33.57	33.89	33.62	33.39
	F21	12.7	10.9	12.6	13.9		F21	33.57	33.89	33.61	33.39
	F22	12.6	10.6	12.6	13.9		F22	33.58	33.91	33.62	33.38
	F23	12.6	10.5	12.2	14.2		F23	33.59	33.98	33.67	33.38
	F24	12.6	10.7	12.2	14.3		F24	33.59	33.97	33.68	33.39
	F25	12.4	10.7	12.2	14.4		F25	33.60	33.99	33.69	33.39
98-m	F36	12.1	10.7	11.4	14.0	**98-m**	F36	33.67	34.00	33.73	33.39
	F35	12.1	10.4	11.5	13.9		F35	33.66	34.00	33.73	33.40
	F34	12.3	10.6	11.4	13.7		F34	33.63	33.97	33.73	33.40
	F33	12.3	10.5	11.7	13.5		F33	33.63	33.91	33.66	33.40
	F32	12.5	10.6	11.7	13.6		F32	33.61	33.91	33.64	33.42
	F31	12.7	10.6	11.7	13.7		F31	33.60	33.90	33.64	33.42
	F30	12.7	10.6	11.9	13.8		F30	33.58	33.89	33.64	33.41
	F29	12.1	10.9	11.8	13.4		F29	33.68	33.86	33.57	33.42
	F28	12.2	11.1	11.8	13.4		F28	33.67	33.84	33.58	33.42
	F27	12.2	10.9	11.7	13.2		F27	33.68	33.84	33.58	33.42
	F26	12.1	10.9	11.8	13.3		F26	33.68	33.86	33.59	33.41

Appendix A.1 *continued*

		Density (δ/θ)						Dissolved Oxygen (mg/L)			
Contour	**Station**	**Jan**	**Apr**	**Jul**	**Oct**	**Contour**	**Station**	**Jan**	**Apr**	**Jul**	**Oct**
9-m	C6	25.04	25.54	23.98	23.66	**9-m**	C6	7.6	6.8	7.8	7.3
	C5	25.06	25.48	24.16	23.80		C5	7.4	7.0	7.9	7.0
	C4	25.07	25.60	24.23	23.97		C4	7.6	7.3	7.9	6.4
18-m	F03	25.15	25.31	24.83	24.34	**18-m**	F03	7.9	8.4	8.5	8.4
	F02	24.97	25.56	24.85	24.64		F02	7.8	7.1	8.1	7.9
	C8	25.11	25.80	24.29	24.06		C8	7.7	5.8	8.8	7.4
	C7	25.12	25.79	24.44	24.01		C7	7.4	5.8	8.0	6.0
	A6	25.16	25.83	24.26	23.85		A6	7.3	5.5	7.6	7.1
	A7	25.20	25.73	24.43	24.05		A7	7.0	6.3	7.6	7.1
	A1	25.18	25.78	24.68	23.96		A1	7.2	5.6	7.5	7.1
	F01	25.11	25.59	24.98	24.82		F01	7.8	6.9	7.7	7.7
60-m	F14	25.27	25.93	25.36	24.75	**60-m**	F14	7.0	4.4	7.0	8.0
	F13	25.26	25.96	25.38	24.79		F13	7.1	4.2	6.9	7.9
	F12	25.24	25.96	25.36	24.84		F12	7.2	4.2	7.1	7.8
	F11	25.22	25.95	25.34	24.91		F11	7.4	4.2	7.2	7.6
	F10	25.21	25.98	25.32	24.84		F10	7.4	3.6	7.3	7.9
	F09	25.21	25.91	25.37	24.89		F09	7.3	4.0	6.9	7.6
	F08	25.20	25.94	25.41	24.93		F08	7.5	3.9	6.8	7.6
	F07	25.18	25.91	25.19	24.93		F07	7.6	4.2	7.4	7.6
	F06	25.40	25.81	25.34	24.97		F06	6.3	5.0	7.0	7.4
	F05	25.39	25.88	25.32	25.00		F05	6.4	4.6	7.0	7.7
	F04	25.40	25.88	25.21	24.95		F04	6.3	4.7	7.4	7.8
80-m	F15	25.47	25.82	25.43	25.00	**80-m**	F15	5.9	4.9	6.6	7.5
	F16	25.47	25.83	25.39	24.99		F16	5.9	4.9	6.5	7.6
	F17	25.48	25.85	25.40	25.07		F17	5.9	4.9	6.5	7.3
	F18	25.50	25.86	25.39	25.06		F18	5.8	4.8	6.6	7.3
	F19	25.29	25.94	25.43	24.99		F19	6.7	4.2	6.6	7.6
	F20	25.32	25.95	25.39	24.93		F20	6.7	4.2	6.5	7.6
	F21	25.34	25.91	25.35	24.94		F21	6.6	4.4	6.8	7.5
	F22	25.37	25.98	25.38	24.91		F22	6.4	4.0	6.8	7.6
	F23	25.37	26.05	25.49	24.85		F23	6.2	3.8	6.5	7.6
	F24	25.37	26.00	25.49	24.83		F24	6.2	4.0	6.4	7.6
	F25	25.41	26.02	25.49	24.83		F25	6.0	4.3	6.4	7.8
98-m	F36	25.54	26.04	25.69	24.91	**98-m**	F36	5.4	4.0	5.8	7.8
	F35	25.52	26.09	25.68	24.93		F35	5.5	3.8	5.9	7.6
	F34	25.46	26.03	25.69	24.97		F34	5.7	3.9	5.8	7.4
	F33	25.46	26.00	25.58	25.02		F33	5.7	3.9	6.1	7.6
	F32	25.40	25.99	25.57	25.00		F32	6.1	4.0	6.2	7.4
	F31	25.37	25.98	25.57	24.99		F31	6.3	4.0	6.1	7.5
	F30	25.34	25.97	25.53	24.97		F30	6.2	4.1	6.1	7.5
	F29	25.54	25.88	25.50	25.05		F29	5.5	4.6	6.3	7.3
	F28	25.50	25.84	25.51	25.05		F28	5.6	4.9	6.4	7.3
	F27	25.51	25.87	25.52	25.09		F27	5.5	4.7	6.3	7.2
	F26	25.54	25.88	25.51	25.08		F26	5.3	4.8	6.3	7.2

Appendix A.1 *continued*

		pH						Transmissivity (%)			
Contour	Station	Jan	Apr	Jul	Oct	Contour	Station	Jan	Apr	Jul	Oct
9-m	C6	8.1	8.2	8.2	8.1	**9-m**	C6	74	63	81	82
	C5	8.1	8.1	8.2	8.1		C5	77	55	81	80
	C4	8.1	8.1	8.2	8.1		C4	77	65	79	83
18-m	F03	8.1	8.2	8.1	8.2	**18-m**	F03	77	70	78	84
	F02	8.1	8.1	8.1	8.2		F02	74	67	79	77
	C8	8.1	8.0	8.2	8.1		C8	77	73	83	87
	C7	8.1	8.0	8.1	8.0		C7	78	73	83	83
	A6	8.1	8.0	8.1	8.1		A6	80	76	83	88
	A7	8.0	8.0	8.1	8.1		A7	81	73	82	87
	A1	8.0	8.0	8.1	8.1		A1	81	73	83	88
	F01	8.1	8.1	8.0	8.1		F01	79	77	80	87
60-m	F14	8.1	7.9	7.9	8.2	**60-m**	F14	81	86	86	87
	F13	8.1	7.9	7.9	8.2		F13	82	87	86	87
	F12	8.1	7.9	7.9	8.1		F12	82	87	85	87
	F11	8.1	7.9	7.9	8.1		F11	82	87	86	87
	F10	8.1	7.8	8.0	8.1		F10	84	85	87	88
	F09	8.1	7.8	7.9	8.1		F09	84	84	87	88
	F08	8.1	7.8	7.9	8.1		F08	84	85	88	88
	F07	8.1	7.8	8.0	8.1		F07	83	83	86	89
	F06	8.0	7.9	7.9	8.1		F06	84	83	87	90
	F05	8.0	8.0	7.9	8.1		F05	85	85	86	90
	F04	8.0	8.0	8.0	8.1		F04	86	87	87	90
80-m	F15	8.0	7.9	7.9	8.1	**80-m**	F15	87	86	89	90
	F16	8.0	7.9	7.9	8.1		F16	87	86	89	89
	F17	8.0	7.9	7.9	8.1		F17	87	86	89	89
	F18	8.0	7.9	7.9	8.1		F18	88	85	89	89
	F19	8.1	7.9	7.9	8.1		F19	87	88	90	90
	F20	8.1	7.8	7.9	8.1		F20	87	88	89	90
	F21	8.1	7.8	7.9	8.1		F21	88	88	89	90
	F22	8.1	7.8	7.9	8.1		F22	88	88	89	90
	F23	8.0	7.9	7.9	8.1		F23	87	89	88	88
	F24	8.0	7.8	7.9	8.2		F24	87	89	88	88
	F25	8.0	7.9	7.9	8.2		F25	88	87	88	89
98-m	F36	8.0	7.8	7.9	8.1	**98-m**	F36	88	88	90	90
	F35	8.0	7.8	7.9	8.1		F35	88	88	90	90
	F34	8.0	7.8	7.9	8.1		F34	88	89	89	90
	F33	8.0	7.8	7.9	8.1		F33	88	88	90	90
	F32	8.0	7.8	7.9	8.1		F32	88	89	90	90
	F31	8.0	7.8	7.9	8.1		F31	88	89	90	89
	F30	8.0	7.8	7.9	8.1		F30	88	89	90	89
	F29	8.0	7.9	7.9	8.1		F29	88	87	90	90
	F28	8.0	7.9	7.9	8.1		F28	88	87	90	90
	F27	8.0	7.9	7.9	8.1		F27	88	88	90	90
	F26	8.0	7.9	7.9	8.1		F26	88	87	90	90

Appendix A.1 *continued*

Contour	Station	Chlorophyll *a* (µg/L) Jan	Apr	Jul	Oct
9-m	C6	1.83	8.96	3.31	3.50
	C5	1.25	10.56	3.23	1.78
	C4	1.67	14.89	3.12	1.83
18-m	F03	3.8	16.4	10.8	2.3
	F02	4.5	13.6	8.8	2.8
	C8	4.4	20.3	3.2	1.7
	C7	3.8	10.9	4.0	2.4
	A6	2.7	11.2	3.7	1.9
	A7	3.4	11.0	5.0	2.1
	A1	4.0	20.8	5.0	1.7
	F01	3.1	8.2	9.5	2.9
60-m	F14	2.8	2.4	4.4	2.6
	F13	2.9	2.2	4.8	2.7
	F12	3.0	2.4	5.8	2.6
	F11	3.1	2.3	5.0	2.7
	F10	2.9	3.2	4.6	2.3
	F09	2.7	4.0	3.6	2.3
	F08	3.0	4.0	3.3	2.3
	F07	3.2	5.4	4.7	2.8
	F06	3.1	6.1	3.5	1.3
	F05	2.9	4.4	4.1	2.8
	F04	2.6	3.6	4.1	2.9
80-m	F15	2.2	3.1	3.1	2.6
	F16	2.2	3.6	2.2	2.7
	F17	2.4	4.1	2.0	2.0
	F18	2.2	4.4	2.2	2.1
	F19	2.8	2.9	2.8	2.2
	F20	2.7	3.1	2.4	2.1
	F21	2.6	3.0	2.4	2.1
	F22	2.4	2.6	2.7	2.1
	F23	2.3	1.8	3.1	2.9
	F24	2.3	2.0	2.7	2.6
	F25	2.1	4.2	2.7	2.7
98-m	F36	2.1	2.7	2.1	2.6
	F35	2.2	2.8	1.9	2.1
	F34	2.0	2.3	1.8	2.0
	F33	2.4	3.0	1.7	2.4
	F32	2.3	3.0	1.8	2.2
	F31	2.2	2.7	1.9	2.4
	F30	2.1	2.6	2.0	2.5
	F29	1.8	2.9	1.5	2.2
	F28	1.8	2.8	1.4	2.2
	F27	1.8	2.8	1.4	2.1
	F26	1.5	2.7	1.7	2.3