

APPENDICES

APPENDIX A - FIGURES

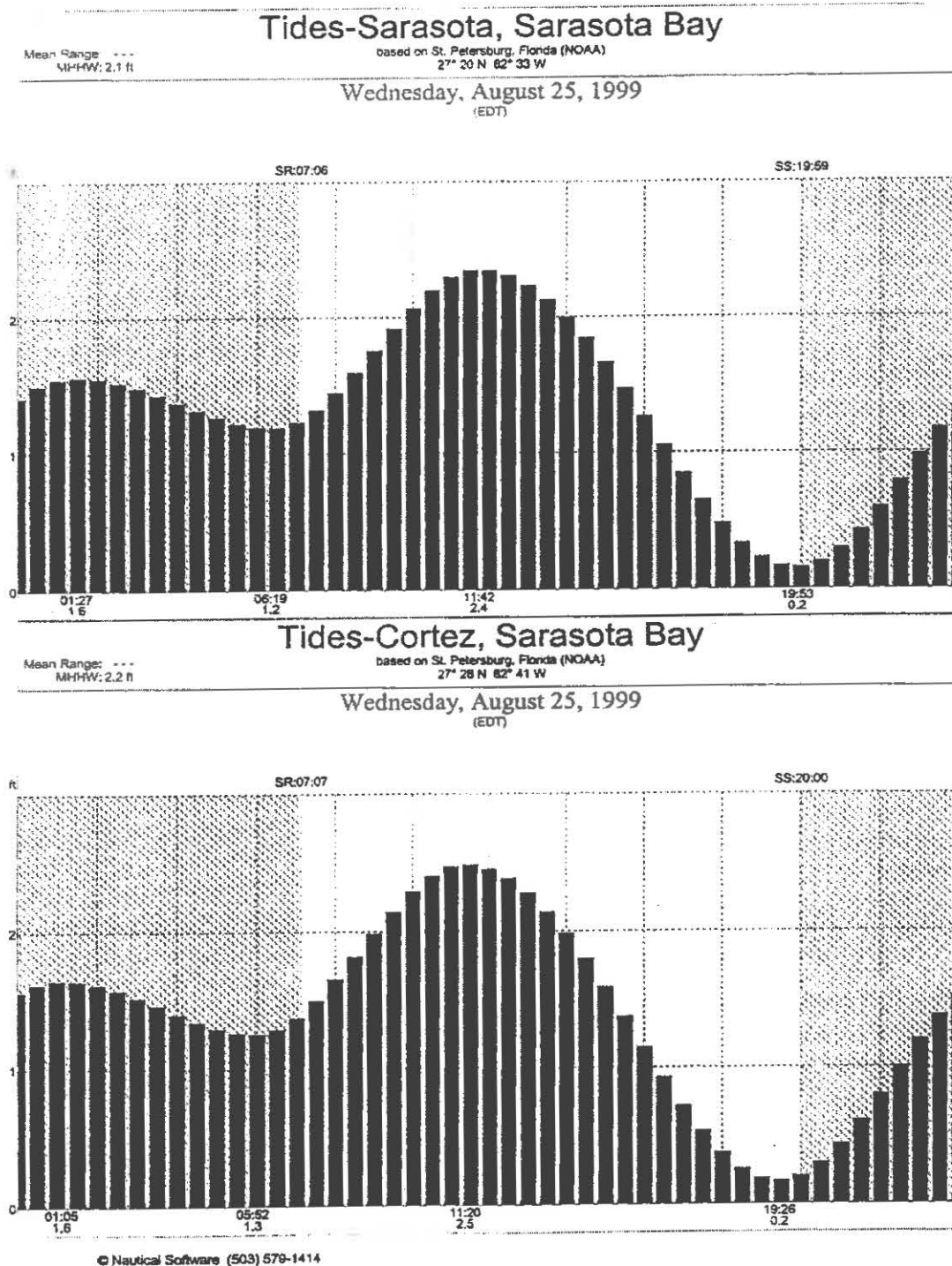
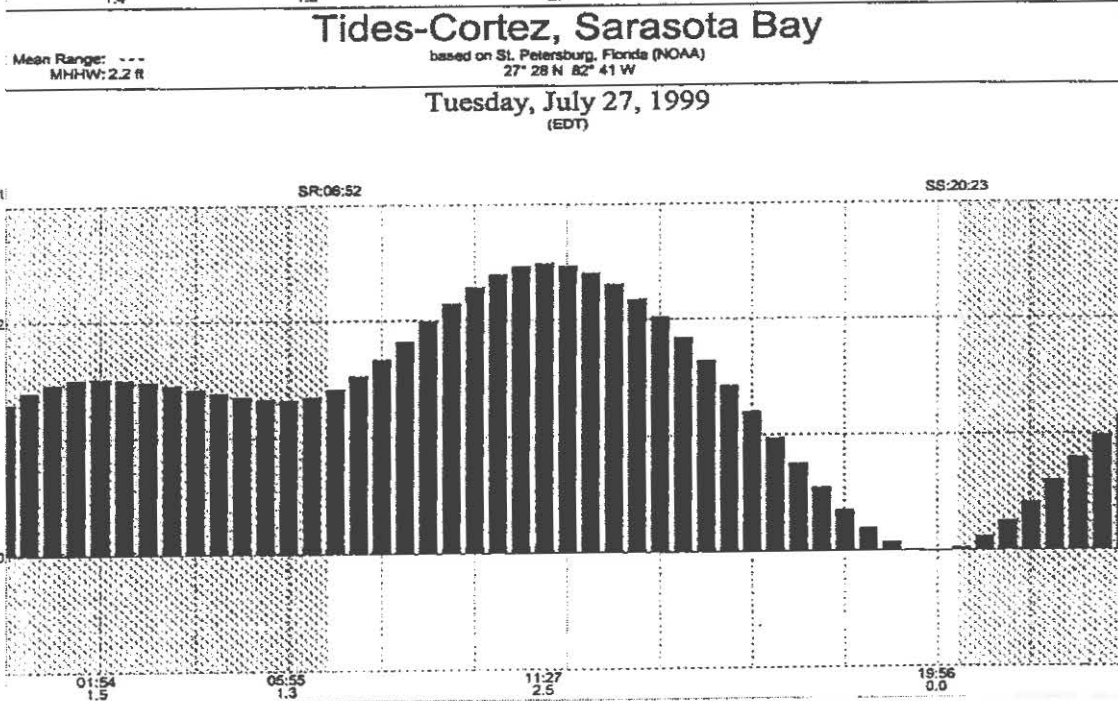
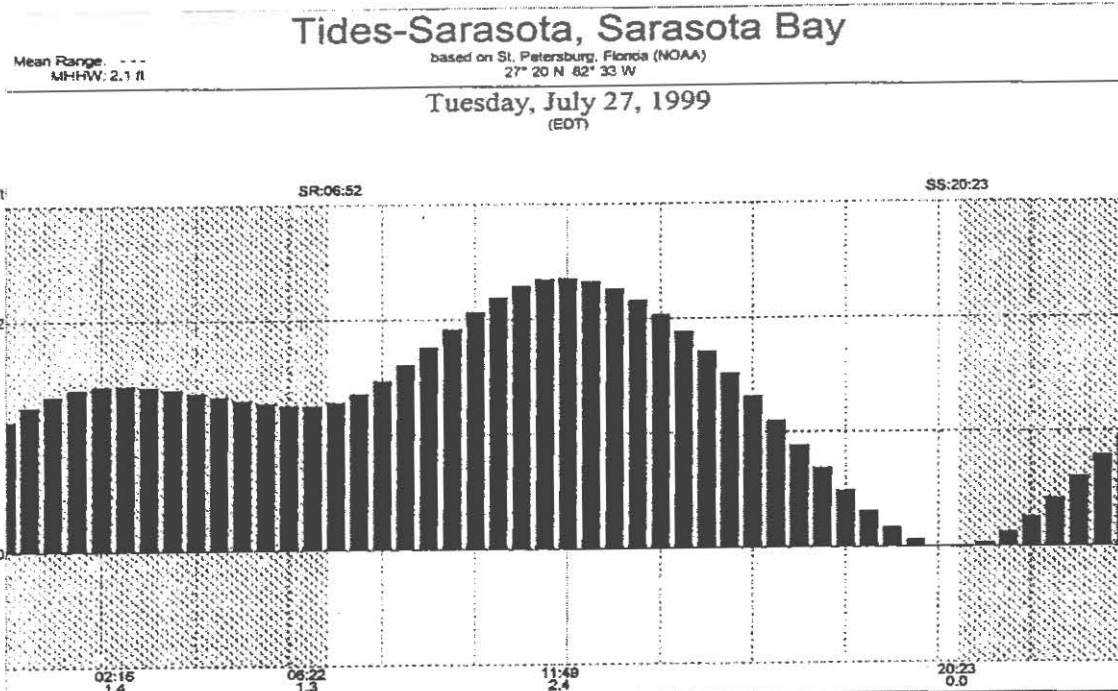
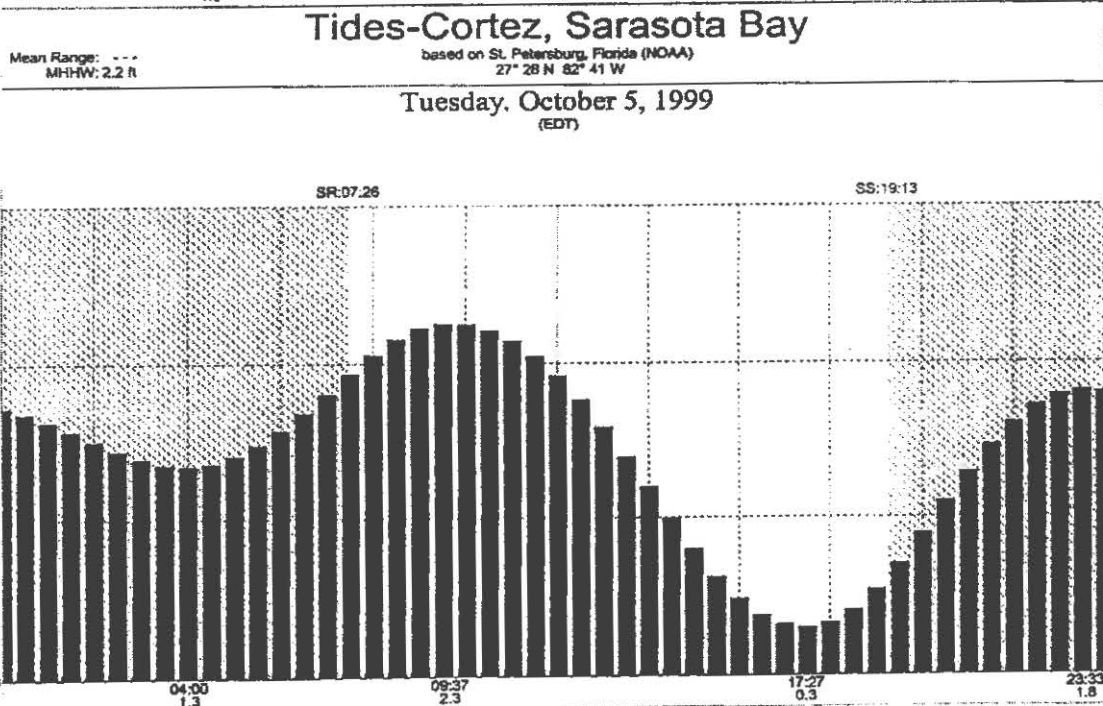
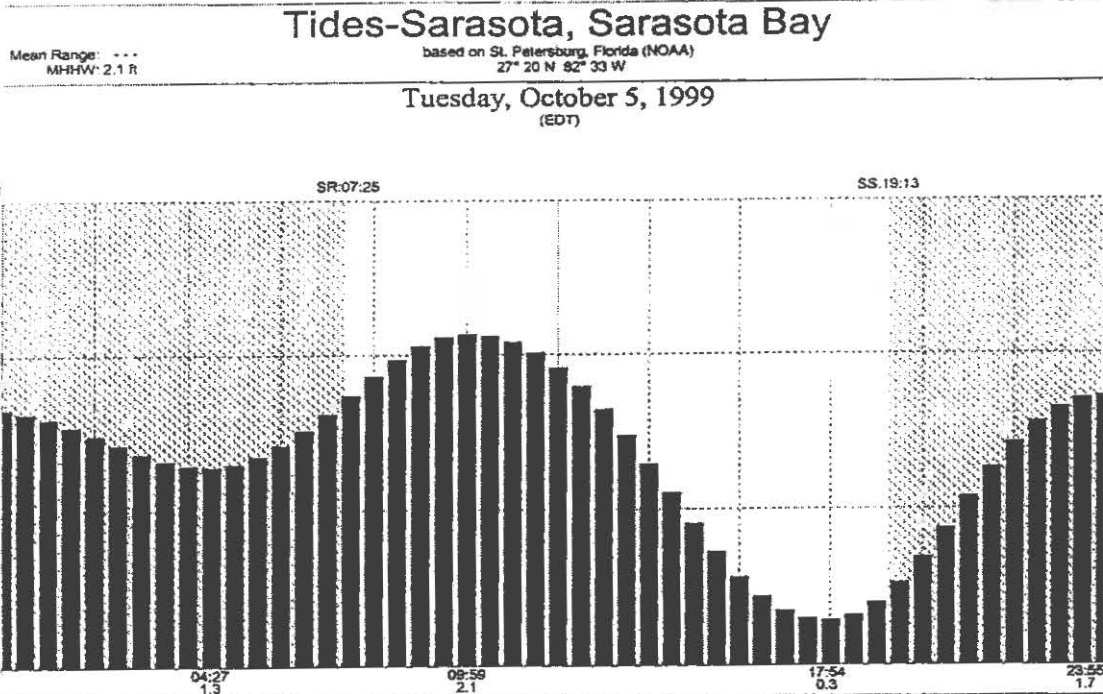


Figure 1. Predicted tides at Sarasota and Cortez, Sarasota Bay, on August 25, 1999.



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Figure 2. Predicted tides at Sarasota and Cortez, Sarasota Bay, on July 27, 1999.



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Figure 3. Predicted tides at Sarasota and Cortez, Sarasota Bay, on October 5, 1999.

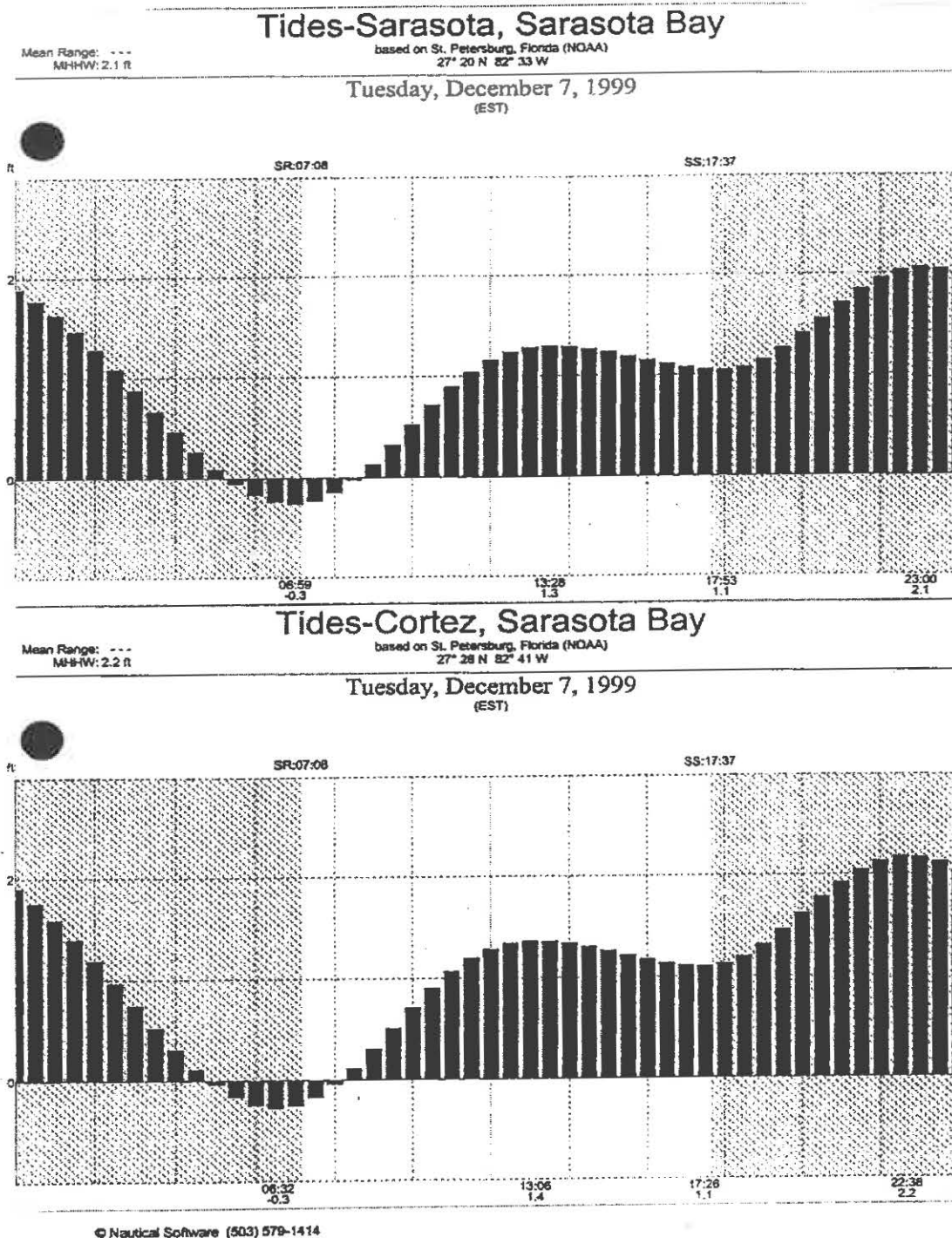


Figure 4. Predicted tides at Sarasota and Cortez, Sarasota Bay, on December 7, 1999.

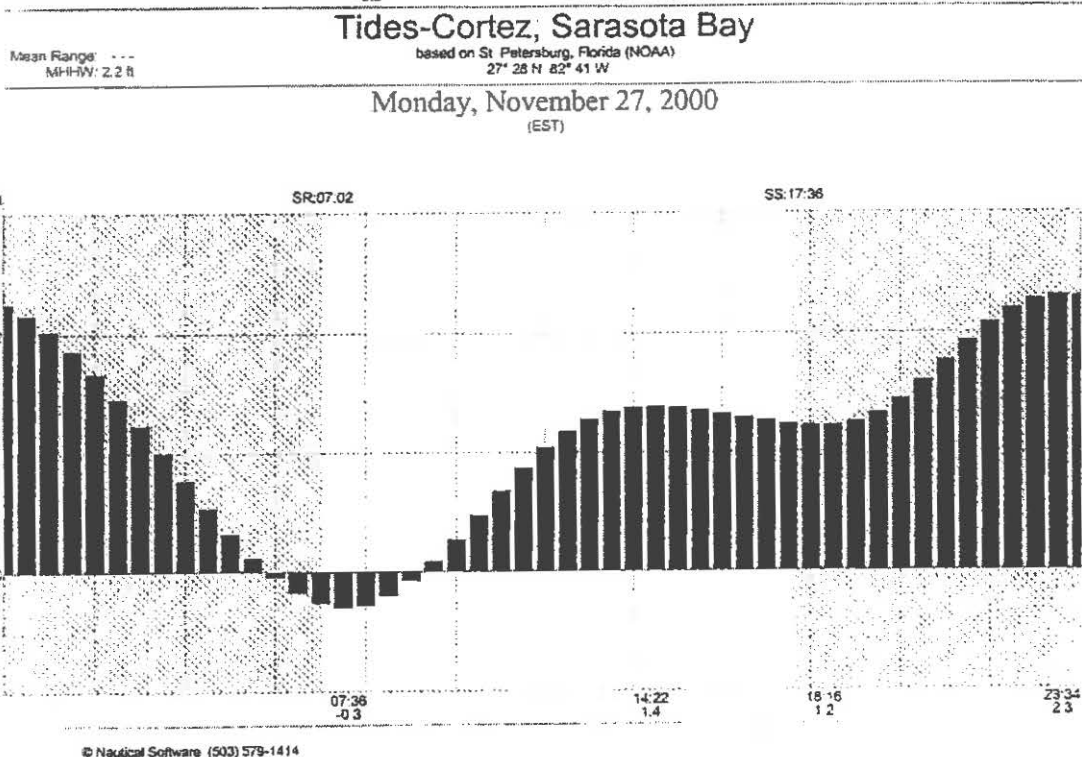
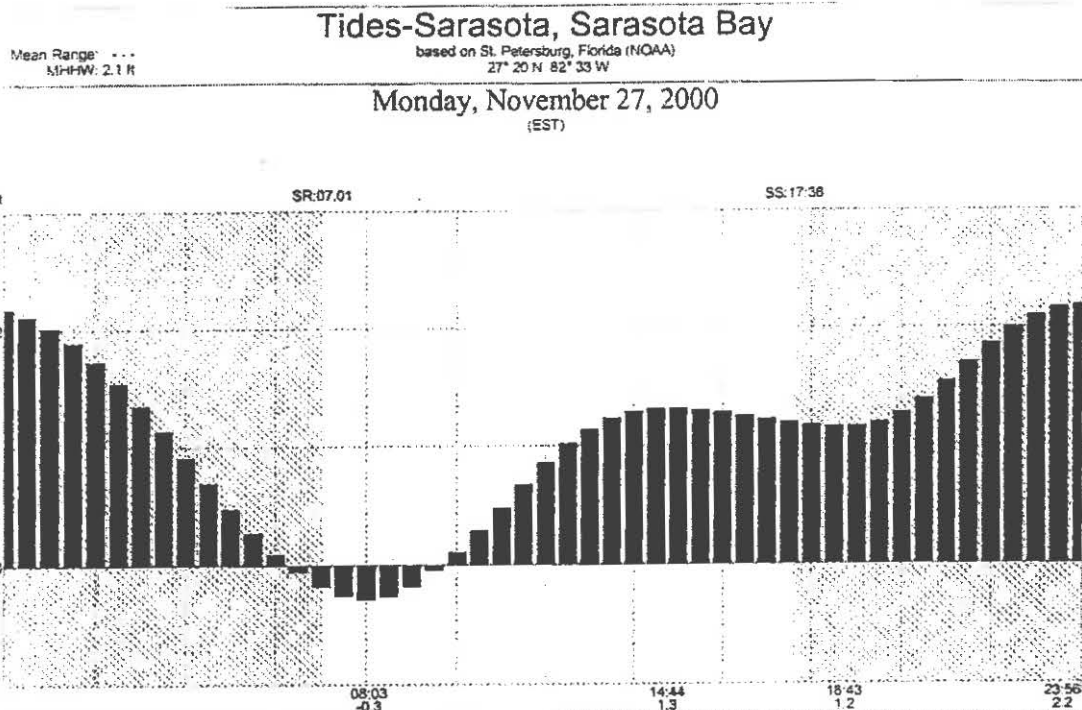


Figure 5. Predicted tides at Sarasota and Cortez, Sarasota Bay, on November 27, 2000.

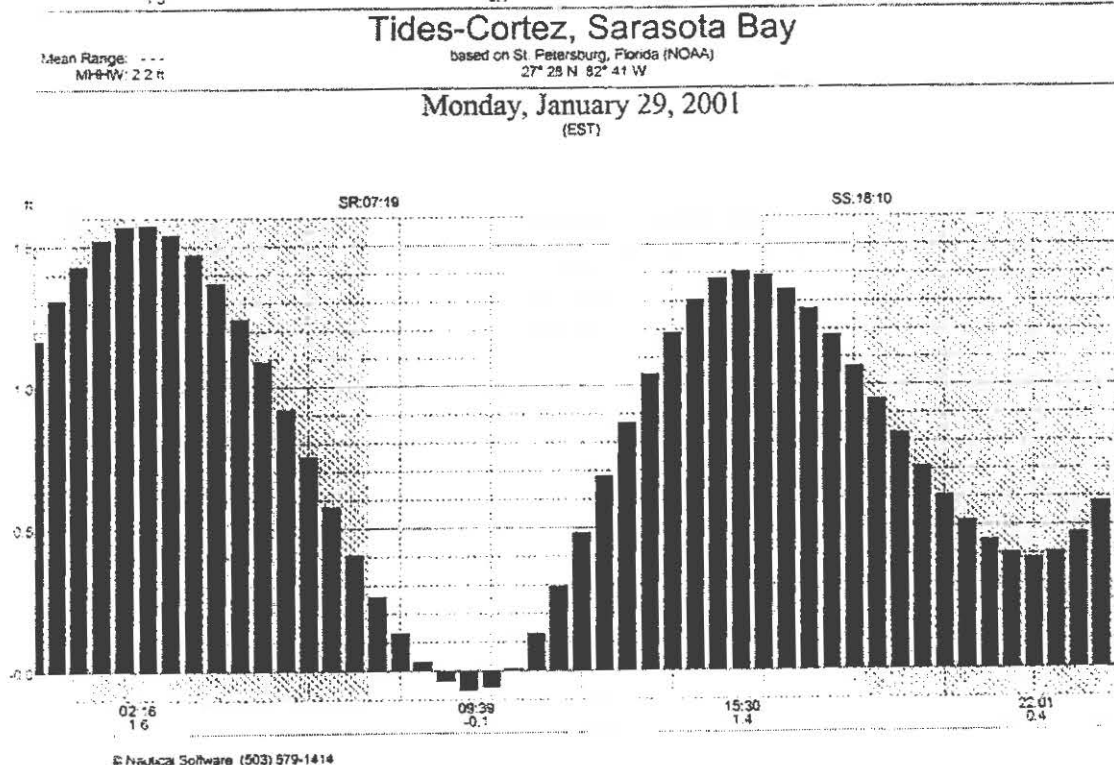
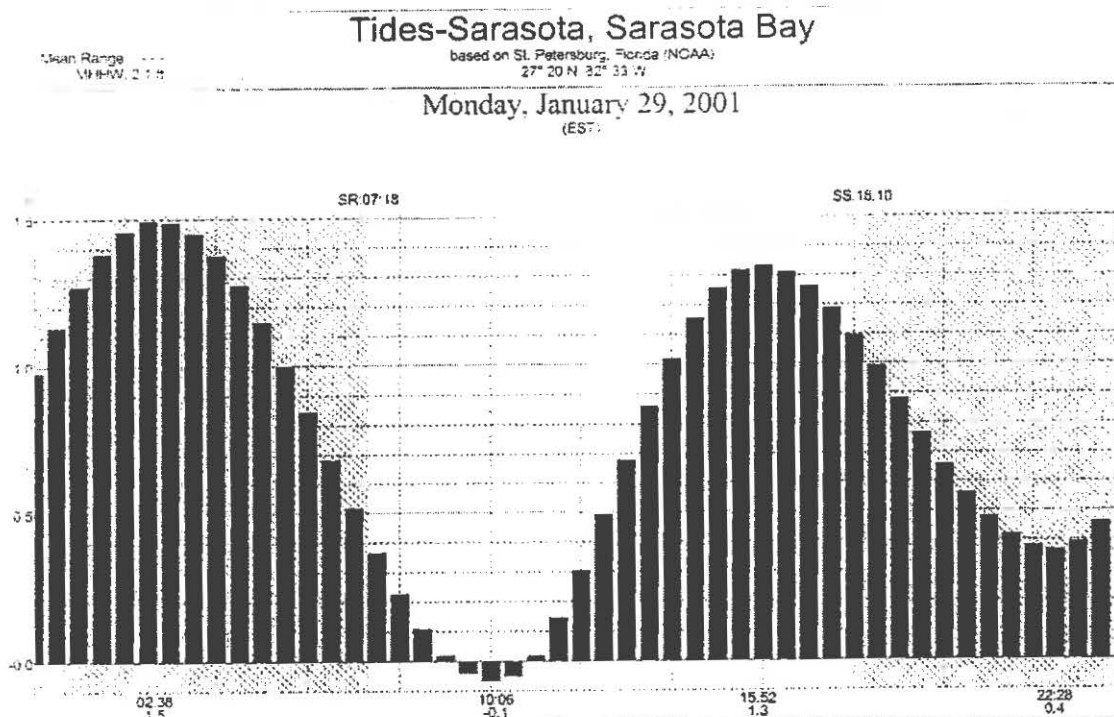


Figure 6. Predicted tides at Sarasota and Cortez, Sarasota Bay, on January 29, 2001.

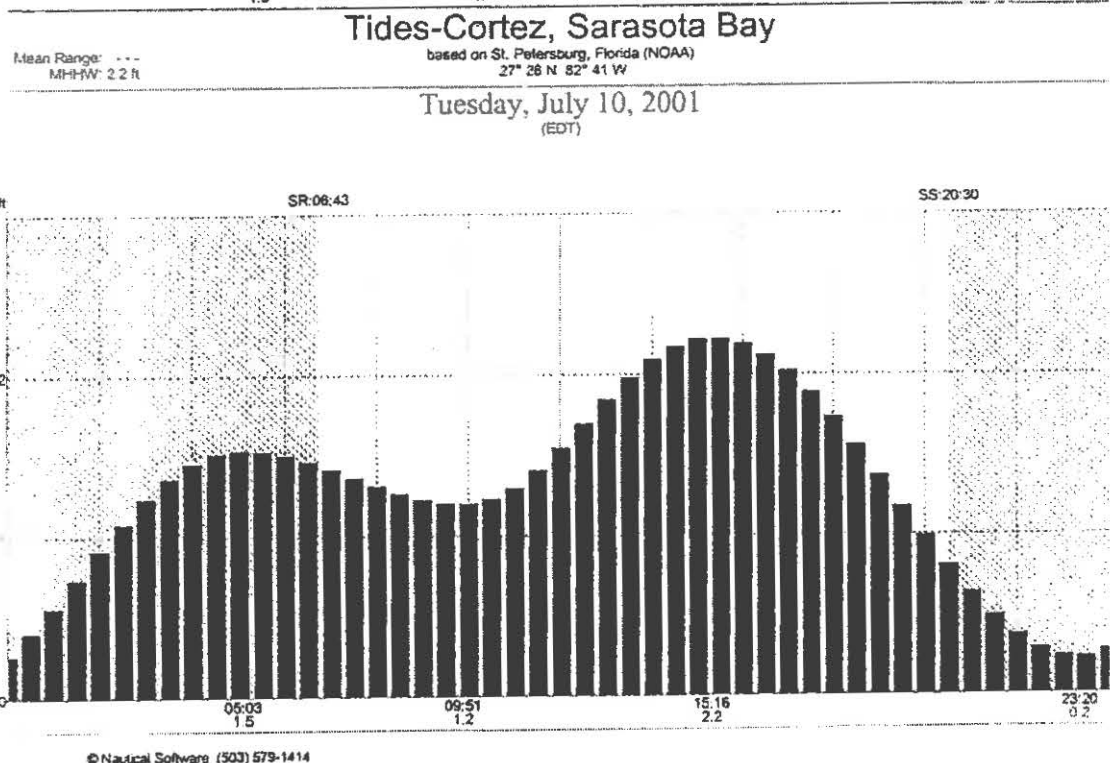
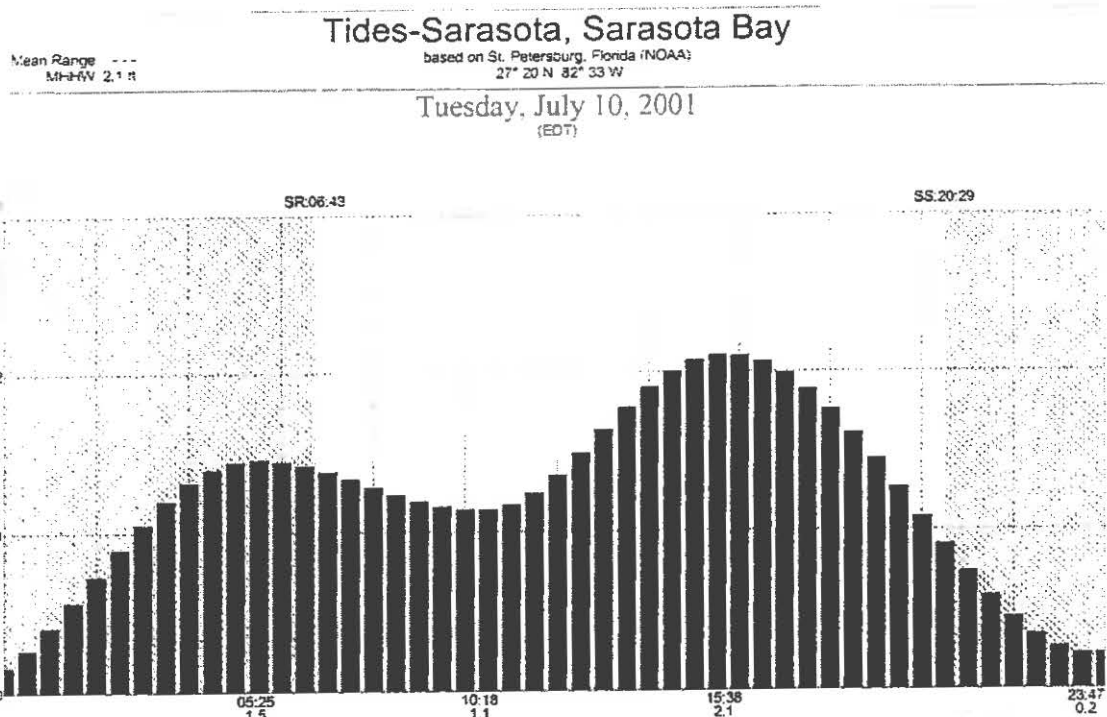
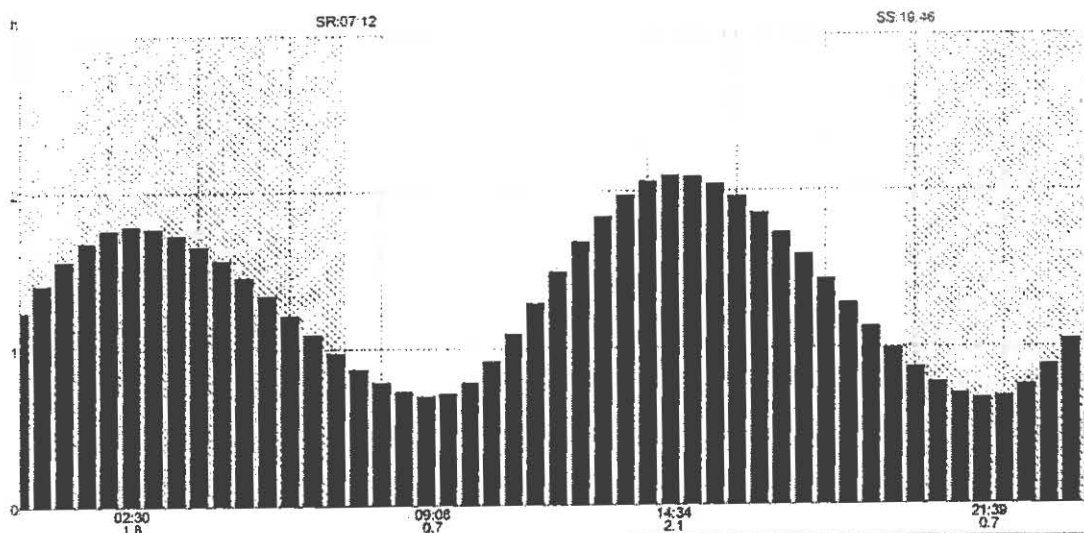


Figure 7. Predicted tides at Sarasota and Cortez, Sarasota Bay, on July 10 , 2001.

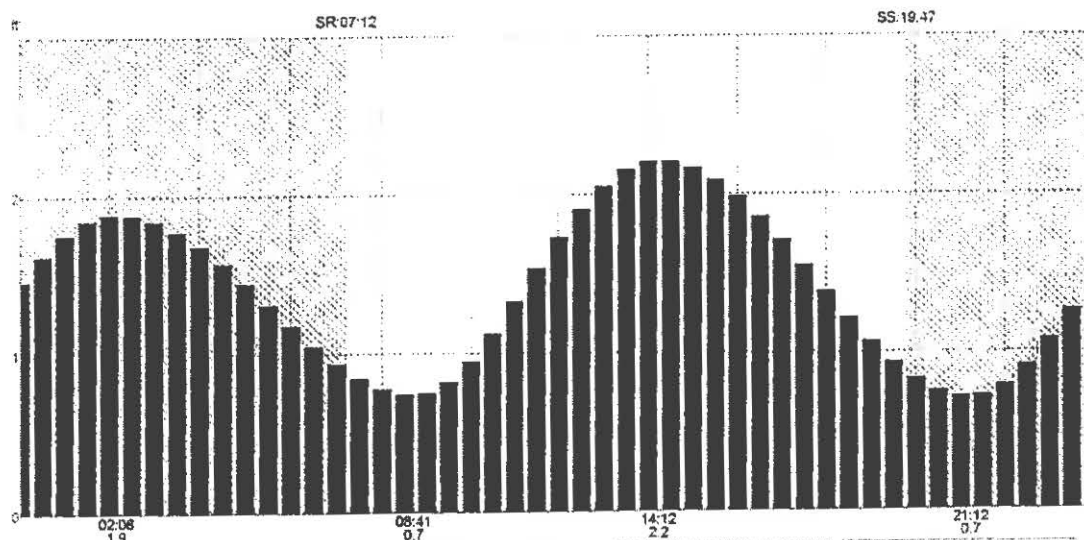
Tides-Sarasota, Sarasota Bay
 based on St. Petersburg, Florida (NOAA)
 27° 20' N 82° 33' W

Wednesday, September 5, 2001
 (ECT)



Tides-Cortez, Sarasota Bay
 based on St. Petersburg, Florida (NOAA)
 27° 28' N 82° 41' W

Wednesday, September 5, 2001
 (EDT)



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Figure 8. Predicted tides at Sarasota and Cortez, Sarasota Bay, on September 5, 2001.

Mean Range: ---
M-HW 2.1 ft

Tides-Sarasota, Sarasota Bay

based on St. Petersburg, Florida (NOAA)
27° 20' N 82° 33' W

Thursday, September 6, 2001
(EDT)

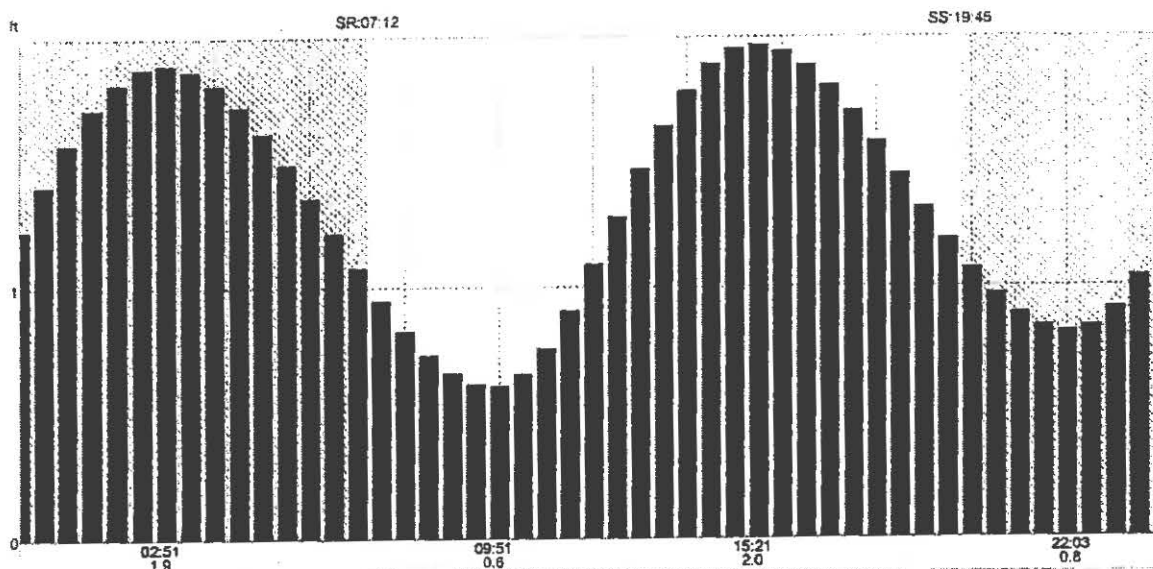


Figure 9. Predicted tides at Sarasota, Sarasota Bay, on September 6, 2001.

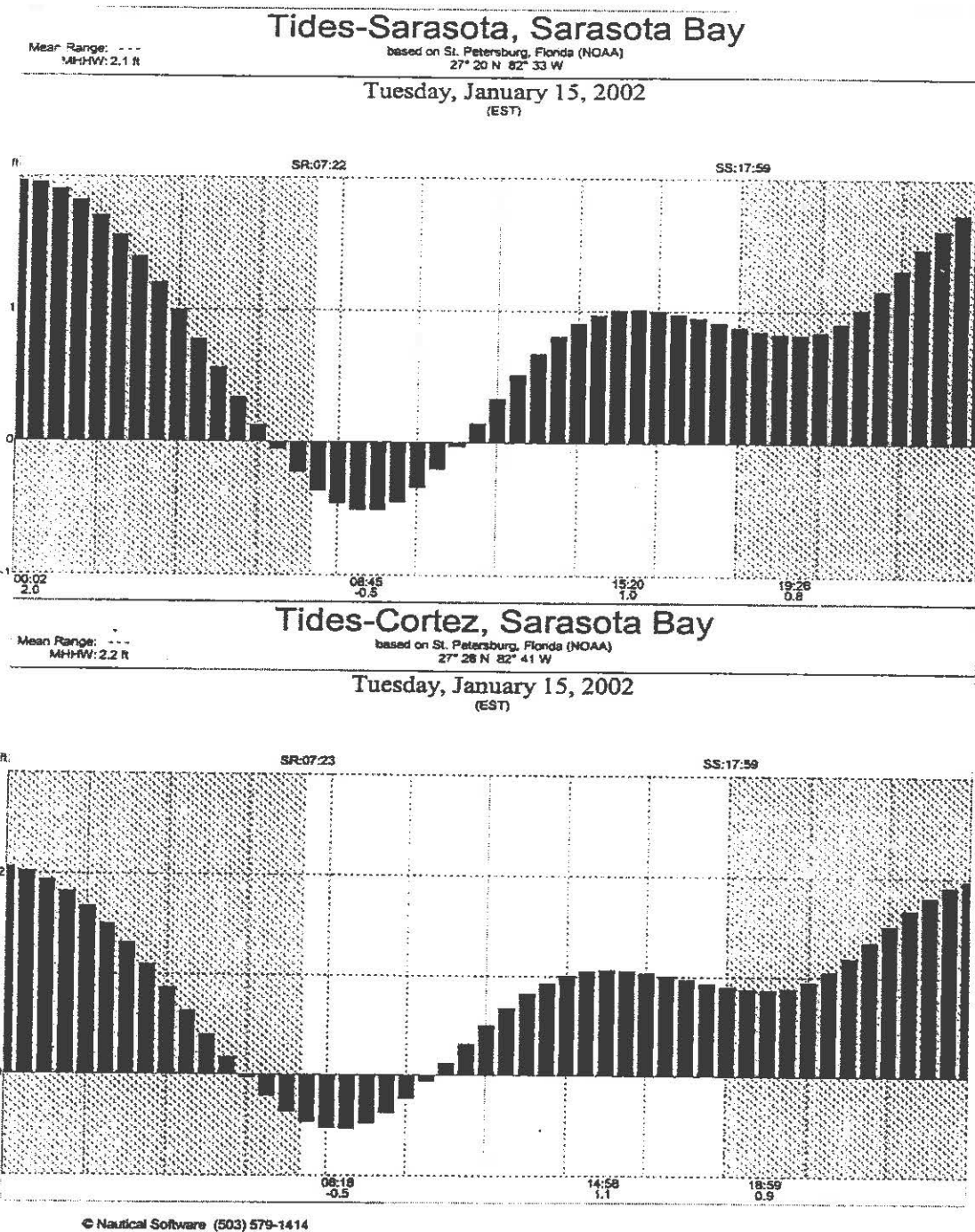
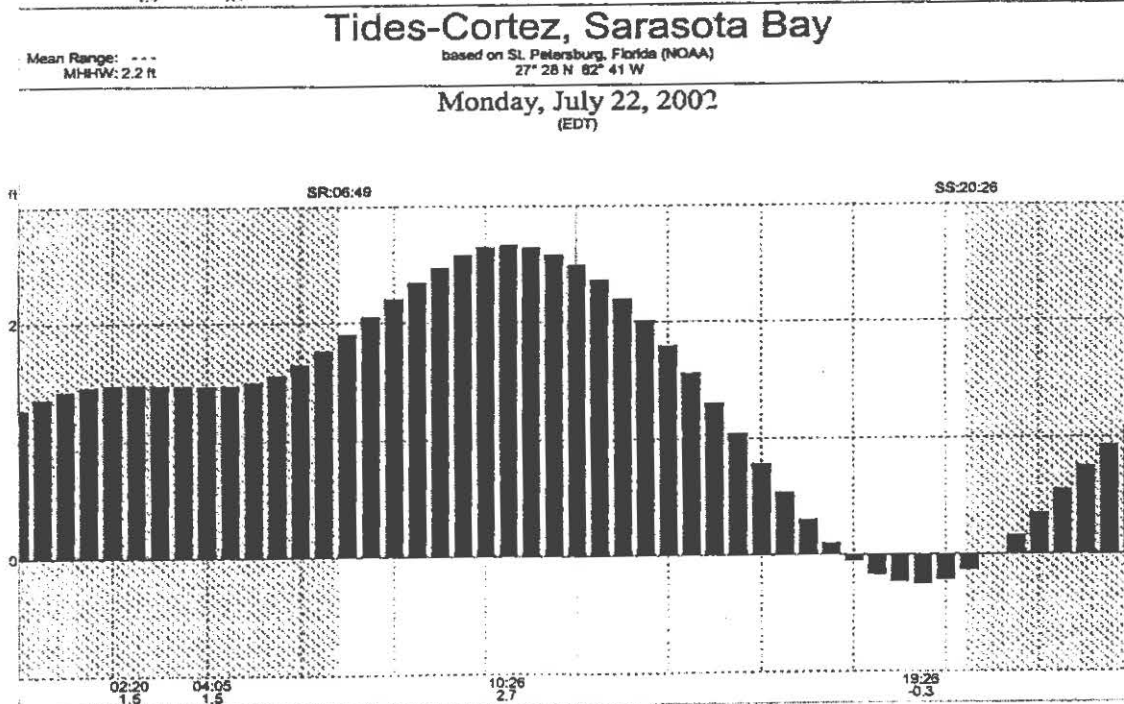
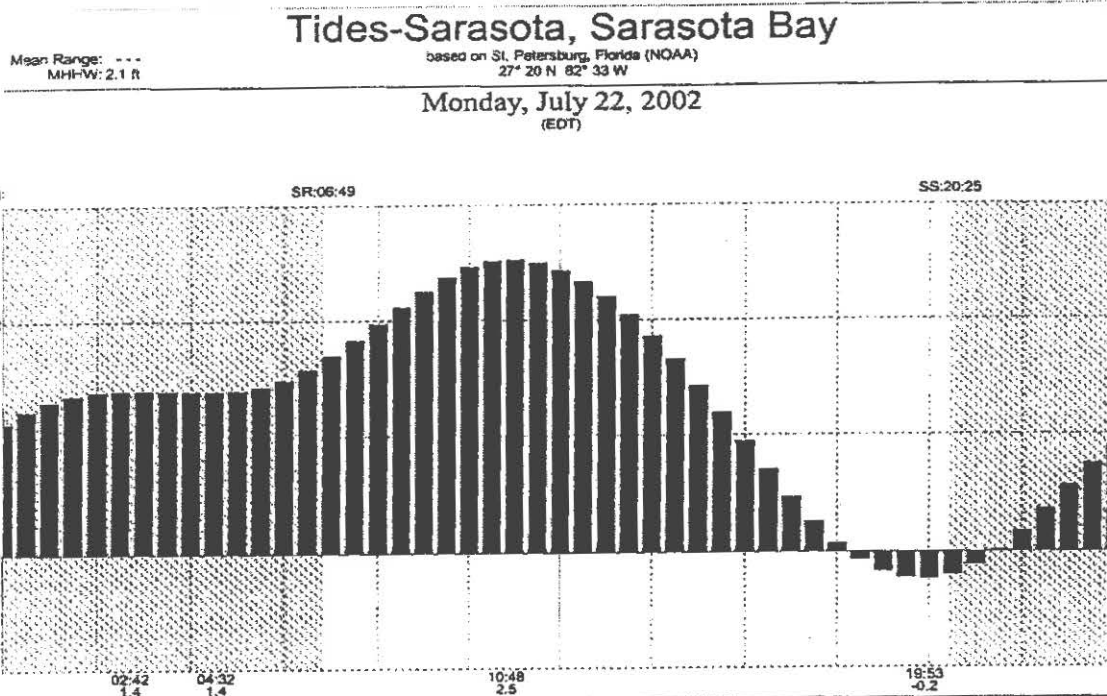


Figure 10. Predicted tides at Sarasota, Sarasota Bay, on January 15, 2002.



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Figure 11. Predicted tides at Sarasota, Sarasota Bay, on July 22, 2002.

APPENDIX B - TABLES

Table 1. Field data from the July 27, 1999 sampling.

Station	Depth	Time EST	Date	Latitude Deg Min		Longitude Deg Min		Dissolved Oxygen mg/L	pH SU	Salinity Field PSU	Salinity Lab PSU	Temperature °C	Flow CFS
HC-1	DS	1459	07/27/99	27	20.855	82	32.675	10.3	6.98	0.5	0.4	34.3	5.2
HC-2	DS	1349	07/27/99	27	20.838	82	32.774	6.0	6.52	13.5	10.7	29.4	
HC-3	DS	1039	07/27/99	27	20.892	82	32.789	6.0	6.58	14.8	12.7	29.8	
HC-4	DS	1035	07/27/99	27	20.894	82	32.931	5.8	7.64	33.0	12.0	31.7	
HC-5	DS	1216	07/27/99	27	20.860	82	32.976	6.2	7.52	33.6	25.0	32.4	
PS-1	DS	0905	07/27/99	27	28.301	82	38.330	1.6	6.95	0.5	0.4	27.3	2.4
PS-1 REP	DS	0905	07/27/99	27	28.301	82	38.330	NA	NA	NA	NA	NA	
PS-2	DS	0739	07/27/99	27	28.324	82	38.361	1.0	7.28	13.5	2.6	28.1	
PS-3	DS	0647	07/27/99	27	28.364	82	38.380	0.5	7.45	23.1	18.2	29.2	

DS = Deep Surface
NA = Not Applicable

Laboratory Supervisor: ANISSANKA

Table 2. Major ion and analytical data from the July 27, 1999 sampling.

Station	Depth	Time EST	Date	Alkalinity Total mg/L	Chloride mg/L	Fluoride mg/L	H ₂ S _{total} mg/L	TSS mg/L	TRCl ₂ mg/L	Cl:SO ₄ mg:mg	Turbidity NTU
HC-1	DS	1459	07/27/99	309	51	0.83	U1	5	U0.08	0.4	4.7
HC-2	DS	1349	07/27/99	117	5871	1.7	U1	2	0.19	3.7	3.0
HC-3	DS	1039	07/27/99	114	6977	1.7	U1	3	0.14	4.1	2.6
HC-4	DS	1035	07/27/99	127	6190	1.7	U1	2	0.14	4.1	2.2
HC-5	DS	1216	07/27/99	124	13954	1.1	U1	5	0.18	7.8	2.9
PS-1	DS	0905	07/27/99	197	108	0.34	U1	U2	U0.08	1.2	1.6
PS-1 REP	DS	0905	07/27/99	195	106	0.33	U1	U2	U0.08	1.4	1.8
PS-2	DS	0739	07/27/99	187	1343	0.48	U1	U2	U0.08	4.3	2.6
PS-3	DS	0647	07/27/99	186	10465	0.40	U1	8	U0.08	19.0	5.1
EQP BLK		1609	07/27/99	U 1.0	U 2	U0.04	U1	U2	U0.08	-	U0.2

DS = Deep Surface

U = <MDL

Laboratory Supervisor: AWB Sankar

Table 3. Nutrient, trace metals, and radiological data from the July 27, 1999 sampling.

Station	Depth	Time EST	Date	TKN mg/L	NH ₄ N mg/L	NO ₃ N mg/L	Total-P mg/L	Ortho-P mg/L	Copper µg/L	Iron mg/L	Gross Alpha pCi/L	²²⁶ Ra pCi/L	²²⁸ Ra pCi/L
HC-1	DS	1459	07/27/99	1.91	U0.005	U0.005	1.20	0.289	2.0	0.44	U2.0	1.1	1.0
HC-2	DS	1349	07/27/99	0.71	0.624	0.102	2.67	0.137	3.5	1.5	33.4	23.1	0.8
HC-3	DS	1039	07/27/99	0.89	0.738	0.087	2.87	0.143	3.8	1.7	29.6	24.0	1.1
HC-4	DS	1035	07/27/99	0.50	0.274	0.132	2.19	0.254	3.4	1.1	13.9	13.3	U0.8
HC-5	DS	1216	07/27/99	0.33	0.131	0.096	0.98	0.136	3.0	1.7	5.9	2.6	U0.8
PS-1	DS	0905	07/27/99	1.05	0.156	0.326	0.47	0.460	2.1	0.22	3.1	0.7	U0.7
PS-1 REP	DS	0905	07/27/99	1.10	0.165	0.348	0.48	0.457	1.8	0.22	1.6	1.0	U0.8
PS-2	DS	0739	07/27/99	1.09	0.205	0.298	0.51	0.449	1.7	0.85	U3.8	1.2	U0.7
PS-3	DS	0647	07/27/99	1.02	0.211	0.289	0.50	0.219	2.2	1.4	3.7	2.3	1.2
EQP BLK		1609	07/27/99	U0.05	U0.005	U0.005	U0.05	U0.005	0.88J	U0.018	U0.6	U0.3	U0.7

DS = Deep Surface

U = <MDL

Laboratory Supervisor: ANWISANKA

Table 4. Field data from the August 25, 1999 sampling.

Station	Depth	Time EST	Date	Latitude		Longitude		Dissolved Oxygen mg/L	pH SU	Salinity Field PSU	Salinity Lab PSU	Temperature °C	Flow CFS
HC-1	DS	1155	08/25/99	27	20.860	82	32.703	6.6	6.92	0.5	0.4	30.4	
HC-1 REP	DS	1200	08/25/99	27	20.860	82	32.703	NA	NA	NA	NA	NA	
HC-2	DS	1217	08/25/99	27	20.887	82	32.732	6.0	6.56	11.1	10.8	28.9	8.8
HC-3	DS	1250	08/25/99	27	20.862	82	32.801	5.5	6.55	10.1	4.0	29.4	
HC-4	DS	1310	08/25/99	27	20.894	82	32.931	5.4	6.60	10.5	9.9	29.2	
HC-5	DS	0800	08/25/99	27	20.843	82	32.955	4.8	7.66	29.8	19.7	29.4	
PS-1	DS	0938	08/25/99	27	28.258	82	38.198	3.3	6.97	0.4	0.3	27.0	6.6
PS-2	DS	1038	08/25/99	27	28.372	82	38.382	2.3	6.99	10.1	8.2	28.0	
PS-3	DS	1020	08/25/99	27	28.319	82	38.416	2.5	7.00	14.1	11.3	29.2	

DS = Deep Surface

NA = Not Applicable

Laboratory Supervisor: AWISSanka

Table 5. Major ion and analytical data from the August 25, 1999 sampling.

Station	Depth	Time EST	Date	Alkalinity Total mg/L	Chloride mg/L	Fluoride mg/L	H ₂ S _{total} mg/L	TSS mg/L	TRCl ₂ mg/L	Cl:SO ₄ mg:mg	Turbidity NTU
HC-1	DS	1155	08/25/99	237	43	0.60	U1	U2	U0.08	0.4	3.6
HC-1 REP	DS	1200	08/25/99	239	41	0.61	U1	6	U0.08	0.4	6.0
HC-2	DS	1217	08/25/99	109	5994	1.8	U1	2	0.09	2.2	3.1
HC-3	DS	1250	08/25/99	126	1621	2.1	U1	U2	0.09	0.9	2.3
HC-4	DS	1310	08/25/99	116	5257	1.9	U1	2	0.09	4.4	2.1
HC-5	DS	0800	08/25/99	119	11104	1.2	U1	5	0.09	5.0	3.1
PS-1	DS	0938	08/25/99	160	93	0.26	U1	7	U0.08	2.3	5.5
PS-2	DS	1038	08/25/99	158	5429	0.42	U1	2	U0.08	11.6	2.6
PS-3	DS	1020	08/25/99	166	7591	0.47	U1	3	U0.08	15.2	3.0
EQP BLK		1230	08/25/99	U 1.0	U 2	U0.20	U1	U2	U0.08	-	U0.2

DS = Deep Surface

U = <MDL

Laboratory Supervisor: ANR Sanka

Table 6. Nutrient, trace metals, and radiological data from the August 25, 1999 sampling.

Station	Depth	Time EST	Date	TKN mg/L	NH ₄ N mg/L	NO ₃ N mg/L	Total-P mg/L	Ortho-P mg/L	Copper µg/L	Iron mg/L	Gross Alpha pCi/L	²²⁶ Ra pCi/L	²²⁸ Ra pCi/L
HC-1	DS	1155	08/25/99	0.79	0.129	1.773	0.28	0.293	5.2	0.41	5.5	0.9	U0.7
HC-1 REP	DS	1200	08/25/99	0.89	0.132	1.713	0.28	0.292	5.3	0.38	2.2	0.4	U0.7
HC-2	DS	1217	08/25/99	0.84	0.607	0.026	2.67	0.111	5.1	0.70	19.8	11.7	0.9
HC-3	DS	1250	08/25/99	0.43	0.482	0.053	2.75	0.131	4.0	0.64	16.9	9.1	U1.1
HC-4	DS	1310	08/25/99	0.60	0.592	0.099	2.81	0.261	5.6	0.99	22.5	16.2	0.8
HC-5	DS	0800	08/25/99	0.27	0.087	0.011	0.49	0.134	4.0	1.7	U3.1	0.5	0.8
PS-1	DS	0938	08/25/99	1.06	0.177	0.250	0.49	0.374	13	0.34	3.0	0.4	0.7
PS-2	DS	1038	08/25/99	0.71	0.122	0.205	0.39	0.298	4.3	0.67	4.4	1.0	U0.7
PS-3	DS	1020	08/25/99	0.81	0.189	0.642	0.34	0.260	4.3	0.76	U3.2	1.2	U0.7
EQP BLK		1230	08/25/99	U0.05	0.010	U0.005	U0.05	U0.005	4.1	0.026J	U0.4	U0.2	U0.7

I = <Reporting Limit

DS = Deep Surface

U = <MDL

Laboratory Supervisor: AWissauka

Table 7. Field data from the October 5, 1999 sampling.

Station	Depth	Time EST	Date	Latitude		Longitude		Dissolved Oxygen mg/L	pH	Salinity Field PSU	Salinity Lab PSU	Temperature °C	Flow CFS
HC-1	DS	0939	10/05/99	27	20.871	82	32.707	4.3	7.19	0.4	0.2	27.2	15.1
HC-2	DS	0956	10/05/99	27	20.842	82	32.766	6.4	6.87	3.4	3.0	28.4	
HC-2 REP	DS	0956	10/05/99	27	20.842	82	32.766	NA	NA	NA	NA	NA	
HC-3	DS	0900	10/05/99	27	20.864	82	32.829	5.9	6.87	11.0	7.7	28.4	
HC-4	DS	0840	10/05/99	27	20.875	82	32.963	4.5	7.08	29.6	9.0	28.0	
HC-5	DS	0724	10/05/99	27	20.878	82	32.993	4.4	7.95	33.0	32.9	27.6	8.7
PS-1	DS	1257	10/05/99	27	28.258	82	38.198	3.7	7.22	0.4	0.3	26.3	
PS-2	DS	1404	10/05/99	27	28.343	82	38.455	2.7	7.44	10.8	1.9	26.9	
PS-3	DS	1335	10/05/99	27	28.349	82	38.433	3.5	7.20	2.0	1.6	26.3	

DS = Deep Surface
NA = Not Applicable

Laboratory Supervisor: Adriana

Table 8. Major ion and analytical data from the October 5, 1999 sampling.

Station	Depth	Time EST	Date	Alkalinity Total mg/L	Chloride mg/L	Fluoride mg/L	H ₂ S _{total} mg/L	TSS mg/L	TRCl ₂ mg/L	Cl:SO ₄ mg:mg	Turbidity NTU
HC-1	DS	0939	10/05/99	166	35	0.45	U1	3	U0.08	0.3	3.9
HC-2	DS	0956	10/05/99	96	1071	2.1	U1	U2	U0.08	0.8	4.3
HC-2 REP	DS	0956	10/05/99	105	1592	2.0	U1	U2	U0.08	0.4	2.3
HC-3	DS	0900	10/05/99	105	3931	1.8	U1	3	U0.08	1.9	1.7
HC-4	DS	0840	10/05/99	105	5208	1.7	U1	3	U0.08	1.3	1.7
HC-5	DS	0724	10/05/99	117	17885	0.93	U1	5	0.10	4.8	3.6
PS-1	DS	1257	10/05/99	150	177	0.26	U1	9	U0.08	6.6	11
PS-2	DS	1404	10/05/99	164	904	0.32	U1	5	U0.08	7.5	7.6
PS-3	DS	1335	10/05/99	153	884	0.32	U1	5	U0.08	6.8	6.0
EQP BLK		1100	10/05/99	U 1.0	U1	0.076	U1	U2	U0.08	-	U0.2

DS = Deep Surface

U = <MDL

Laboratory Supervisor: AWissauka

Table 9. Nutrient, trace metals, and radiological data from the October 5, 1999 sampling.

Station	Depth	Time EST	Date	TKN mg/L	NH ₄ N mg/L	NO ₃ N mg/L	Total-P mg/L	Ortho-P mg/L	Copper µg/L	Iron mg/L	Gross Alpha pCi/L	²²⁶ Ra pCi/L	²²⁸ Ra pCi/L
HC-1	DS	0939	10/05/99	0.57	0.103	0.376	0.21	0.217	U1.0	0.67	2.4	1.4	U0.8
HC-2	DS	0956	10/05/99	0.61	0.467	0.057	2.71	0.254	U1.0	0.84	19.2	15.3	U0.9
HC-2 REP	DS	0956	10/05/99	0.54	0.442	0.051	2.55	0.221	U1.0	0.85	14.6	15.2	U0.9
HC-3	DS	0900	10/05/99	0.61	0.427	0.094	2.40	0.273	U1.0	1.4	27.5	14.8	1.2
HC-4	DS	0840	10/05/99	0.54	0.333	0.092	2.14	0.303	U1.0	1.1	12.7	12.4	U0.9
HC-5	DS	0724	10/05/99	0.42	0.024	0.010	0.24	0.033	1.2	2.5	U3.4	1.0	U0.9
PS-1	DS	1257	10/05/99	1.31	0.289	0.291	0.48	0.389	7.7	0.27	3.2	0.8	U0.9
PS-2	DS	1404	10/05/99	1.14	0.269	0.298	0.46	0.408	11	0.44	U3.4	0.6	U0.8
PS-3	DS	1335	10/05/99	1.15	0.250	0.242	0.45	0.414	6.3	0.41	U3.6	0.4	U0.9
EQP BLK		1100	10/05/99	U0.05	U0.005	U0.005	U0.05	U0.005	U1.0	0.024J	U0.5	U0.3	U1.0

J = < Reporting Limit

DS = Deep Surface

U = <MDL

Laboratory Supervisor: Awissanka

Table 10. Field data from the December 7, 1999 sampling.

Station	Depth	Time EST	Date	Latitude		Longitude		Dissolved Oxygen mg/L	pH SU	Salinity Field PSU	Salinity Lab PSU	Temperature °C	Flow CFS
HC-1	DS	1139	12/07/99	27	20.854	82	32.695	1.1	7.04	0.5	0.3	20.9	11.4
HC-2	DS	1045	12/07/99	27	20.880	82	32.758	6.8	6.98	8.4	5.2	25.4	
HC-2 REP	DS	1055	12/07/99	27	20.880	82	32.758	NA	NA	NA	3.0	NA	
HC-3	DS	1014	12/07/99	27	20.848	82	32.829	6.8	6.88	10.4	7.7	26.3	
HC-4	DS	0947	12/07/99	27	20.868	82	32.937	6.2	6.99	9.6	7.9	25.5	
HC-5	DS	0835	12/07/99	27	20.872	82	32.996	6.9	7.83	37.5	32.7	18.8	
PS-1	DS	1517	12/07/99	27	28.275	82	38.222	4.2	7.36	0.6	0.5	21.5	1.4
PS-2	DS	1437	12/07/99	27	28.342	82	38.403	5.3	7.50	12.1	3.0	20.4	
PS-3	DS	1415	12/07/99	27	28.309	82	38.399	7.0	7.77	31.2	3.9	21.1	
EQP BLK		1700	12/07/99					NA	NA	NA	U0.2	NA	

DS = Deep Surface

NA = Not Applicable

Laboratory Supervisor: AWissauka

Table 11. Major ion and analytical data from the December 7, 1999 sampling.

Station	Depth	Time EST	Date	Alkalinity Total mg/L	Chloride mg/L	Fluoride mg/L	H ₂ S _{total} mg/L	TSS mg/L	TRCl ₂ mg/L	Cl:SO ₄ mg:mg	Turbidity NTU
HC-1	DS	1139	12/07/99	181	50	0.56	U1	4	U0.08	0.6	5.5
HC-2	DS	1045	12/07/99	123	2237	2.3	U1	2	0.10	1.3	2.1
HC-2 REP	DS	1055	12/07/99	120	993	2.3	U1	U2	0.08	0.8	1.6
HC-3	DS	1014	12/07/99	108	3712	2.0	U1	3	0.11	2.1	2.0
HC-4	DS	0947	12/07/99	107	4194	2.0	U1	6	U0.08	2.3	1.9
HC-5	DS	0835	12/07/99	125	19284	0.90	U1	25	0.14	4.7	12
PS-1	DS	1517	12/07/99	200	163	0.46	U1	U2	U0.08	1.3	2.2
PS-2	DS	1437	12/07/99	206	1581	0.05	U1	3	U0.08	4.7	3.3
PS-3	DS	1415	12/07/99	204	2130	0.51	U1	7	U0.08	5.2	4.3
EQP BLK		1700	12/07/99	U 1.0	2	0.047	U1	U2	U0.08	-	U0.2

DS = Deep Surface

U = <MDL

Laboratory Supervisor: Arissanka

Table 12. Nutrient, trace metals, and radiological data from the December 7, 1999 sampling.

Station	Depth	Time EST	Date	TKN mg/L	NH ₄ N mg/L	NO ₃ N mg/L	Total-P mg/L	Ortho-P mg/L	Copper µg/L	Iron mg/L	Gross Alpha pCi/L	²²⁶ Ra pCi/L	²²⁸ Ra pCi/L
HC-1	DS	1139	12/07/99	1.26	0.093	0.064	0.59	0.473	1.7	0.43	U3.3	1.2	U0.7
HC-2	DS	1045	12/07/99	0.63	0.420	0.043	2.79	0.195	U1.0	0.050	12.3	12.7	U0.6
HC-2 REP	DS	1055	12/07/99	0.56	0.400	0.041	2.80	0.198	U1.0	0.047	14.7	11.9	0.8
HC-3	DS	1014	12/07/99	0.65	0.429	0.131	2.99	0.255	U1.0	U0.018	20.6	19.1	0.9
HC-4	DS	0947	12/07/99	0.55	0.358	0.128	2.78	0.306	U1.0	0.037	13.9	14.3	1.0
HC-5	DS	0835	12/07/99	0.47	0.046	0.007	0.42	0.045	2.0	U0.018	U3.3	1.0	U0.8
PS-1	DS	1517	12/07/99	1.11	0.270	0.605	0.50	0.500	1.0	0.14	U3.3	1.3	U0.7
PS-2	DS	1437	12/07/99	1.21	0.355	0.543	0.56	0.517	U1.0	0.088	U3.1	1.1	U0.7
PS-3	DS	1415	12/07/99	1.33	0.364	0.413	0.55	0.507	U1.0	0.045	7.4	1.9	0.7
EQP BLK		1700	12/07/99	U0.05	U0.005	U0.005	U0.05	U0.005	U1.0	U0.018	U1.3	0.2	U0.6

DS = Deep Surface

NA = Not Applicable

U = <MDL

Laboratory Supervisor: AWissamka

Mote Marine Laboratory
Water and Sediment Sample Collection and Analyses

Table 13. Field data from the November 27, 2000 sampling.

Station	Depth	Time EST	Date	Latitude		Longitude		Dissolved Oxygen mg/L	pH	Salinity Field PSU	Salinity Lab PSU	Temperature °C	Flow CFS
Deg	Min	Deg	Min										
HC-2	DS	0948	11/27/00	27	20.847	82	32.754	7.06	7.01	11.52	7.2	25.8	10.1
HC-2 REP	DS	0948	11/27/00	27	20.847	82	32.754	NA	NA	NA	9.4	NA	
HC-3	DS	0918	11/27/00	27	20.834	82	32.809	6.93	7.23	6.47	5.5	25.5	
HC-4	DS	0901	11/27/00	27	20.856	82	32.940	6.33	7.01	7.63	6.3	25.0	
HC-5	DS	1529	11/27/00	27	20.846	82	32.992	8.03	7.96	35.98	33.2	20.7	
PS-1	DS	1236	11/27/00	27	28.258	82	38.222	4.01	7.22	0.66	0.5	21.1	2.4
PS-2	DS	1342	11/27/00	27	28.340	82	38.435	6.33	7.01	7.63	3.7	25.0	
PS-3	DS	1315	11/27/00	27	28.340	82	38.420	5.56	7.41	4.93	0.9	21.5	

DS = Deep Surface

NA = Not Applicable

Laboratory Supervisor: ANVISAUKA

Table 14. Major ion and analytical data from the November 27, 2000 sampling.

Station	Depth	Time EST	Container	Date	Alkalinity Total mg/L	Chloride mg/L	Fluoride mg/L	H ₂ S _{total} mg/L	TSS mg/L	TRCl ₂ mg/L	Cl:SO ₄ mg:mg	Turbidity NTU
HC-2	DS	0948	001573	11/27/00	82	3939	1.6	U1	U2	U0.08	2.2	1.4
HC-2 REP	DS	0948	001577	11/27/00	79	5236	1.6	U1	U2	U0.08	2.8	1.7
HC-3	DS	0918	001571	11/27/00	88	2719	1.6	U1	U2	0.10	1.7	1.7
HC-4	DS	0901	001574	11/27/00	85	3372	1.6	U1	3	0.10	1.8	2.6
HC-5	DS	1529	001570	11/27/00	125	20417	0.69	U1	8	U0.08	9.7	6.4
PS-1	DS	1236	001575	11/27/00	199	178	0.34	U1	25	U0.08	1.0	11
PS-2	DS	1342	001578	11/27/00	193	2257	0.41	U1	6	U0.08	9.0	9.1
PS-3	DS	1315	001572	11/27/00	195	451	0.32	U1	6	U0.08	1.7	9.0
EQP BLK		1130	001579	11/27/00	U1	U1	U0.044	U1	U2	U0.08	-	U0.2

DS = Deep Surface

U = <MDL

Laboratory Supervisor: ANISSANKA

Table 15. Nutrient, trace metals, and radiological data from the November 27, 2000 sampling.

Station	Depth	Time EST	Date	TKN mg/L	NH ₄ N mg/L	NO ₃ N mg/L	Total-P mg/L	Ortho-P mg/L	Copper μg/L	Iron mg/L	Gross Alpha pCi/L	²²⁶ Ra pCi/L	²²⁸ Ra pCi/L
HC-2	DS	0948	11/27/00	0.37	0.347	0.061	2.42	0.613	0.81J	0.019J	17.9	12.2	U0.9
HC-2 REP	DS	0948	11/27/00	0.35	0.325	0.064	2.42	0.578	1.3	0.040J	12.8	13.8	U1.0
HC-3	DS	0918	11/27/00	0.32	0.318	0.068	2.32	0.717	1.2	0.039J	13.6	11.3	U0.9
HC-4	DS	0901	11/27/00	0.37	0.300	0.109	2.31	0.745	1.4	0.067	17.5	14.4	0.9
HC-5	DS	1529	11/27/00	0.17	U0.005	U0.005	0.22	0.114	1.6	0.042J	U2.1	0.8	U0.9
PS-1	DS	1236	11/27/00	1.36	0.357	0.593	0.51	0.495	1.9	0.19	U2.1	1.2	U0.9
PS-2	DS	1342	11/27/00	1.19	0.439	0.480	0.44	0.445	3.0	0.45	U2.1	0.7	U0.9
PS-3	DS	1315	11/27/00	1.20	0.443	0.491	0.55	0.457	2.2	0.19	U2.1	0.7	U0.9
EQP BLK		1130	11/27/00	U0.05	U0.005	U0.005	0.07	U0.005	U0.74	U0.018	U0.5	0.1	U0.9

J = < Reporting Limit

DS = Deep Surface

U = <MDL

Laboratory Supervisor: AWissauka

Mote Marine Laboratory
Water and Sediment Sample Collection and Analyses

Table 16. Field data from the January 29, 2001 sampling.

Station	Depth	Time EST	Date	Latitude		Longitude		Dissolved Oxygen mg/L	pH SU	Salinity Field PSU	Salinity Lab PSU	Temperature °C	Flow CFS
HC-2	DS	1116	01/29/01	27	20.846	82	32.753	7.45	7.26	11.95	7.0	24.64	10.4
HC-2 REP	DS	1125	01/29/01	27	20.846	82	32.753	NA	NA	NA	4.2	NA	
HC-3	DS	1047	01/29/01	27	20.841	82	32.832	7.79	7.33	8.08	7.1	25.11	
HC-4	DS	1023	01/29/01	27	20.857	82	32.943	7.70	7.29	9.69	8.3	24.41	
HC-5	DS	0854	01/29/01	27	20.863	82	33.003	7.93	7.82	35.01	33.9	13.94	
PS-1	DS	1418	01/29/01	27	28.268	82	38.224	7.73	7.56	0.90	0.5	20.58	2.1
PS-2	DS	1528	01/29/01	27	28.316	82	38.345	7.24	8.00	11.75	1.1	22.15	
PS-3	DS	1457	01/29/01	27	28.338	82	38.416	8.77	7.96	33.78	17.1	23.54	

DS = Deep Surface

NA = Not Applicable

Laboratory Supervisor: AW 13 Sankar

Table 17. Major ion and analytical data from the January 29, 2001 sampling.

Station	Depth	Time EST	Container	Date	Alkalinity Total mg/L	Chloride mg/L	Fluoride mg/L	H ₂ S_total mg/L	TSS mg/L	TRCl ₂ mg/L	Cl:SO ₄ mg:mg	Turbidity NTU
HC-2	DS	1116	010112	01/29/01	83.2	3775	2.0	U1	3	0.10	2.7	1.2
HC-2 REP	DS	1125	010113	01/29/01	106.2	1930	2.2	U1	U2	0.11	1.4	1.2
HC-3	DS	1047	010110	01/29/01	90.7	3513	2.0	U1	4	0.11	2.1	3.0
HC-4	DS	1023	010111	01/29/01	87.2	4722	1.9	U1	7	0.10	3.1	5.0
HC-5	DS	0854	010108	01/29/01	240.1	20308	0.79	U1	6	0.14	8.8	1.9
PS-1	DS	1418	010107	01/29/01	202.4	260	0.38	U1	U2	U0.08	2.4	1.0
PS-2	DS	1528	010114	01/29/01	205.0	760	0.39	U1	3	U0.08	6.3	1.2
PS-3	DS	1457	010109	01/29/01	177.2	10087	0.58	U1	5	U0.08	9.2	2.8
EQP BLK		1235	010115	01/29/01	U1	U1	U0.044	U1	U2	U0.08	-	U0.2

DS = Deep Surface

U = <MDL

Laboratory Supervisor: AWissamka

Table 18. Nutrient, trace metals, and radiological data from the January 29, 2001 sampling.

Station	Depth	Time EST	Date	TKN mg/L	NH ₄ N mg/L	NO ₃ N mg/L	Total-P mg/L	Ortho-P mg/L	Copper µg/L	Iron mg/L	Gross Alpha pCi/L	²²⁶ Ra pCi/L	²²⁸ Ra pCi/L
HC-2	DS	1116	01/29/01	0.41	0.366	0.133	2.26	0.591	2.4	U0.018	17.0	16.9	1.1
HC-2 REP	DS	1125	01/29/01	0.25	0.256	0.110	2.07	0.508	3.6	U0.018	10.9	8.8	U0.9
HC-3	DS	1047	01/29/01	0.37	0.348	0.144	2.17	0.620	1.3	0.041J	20.1	15.6	U0.9
HC-4	DS	1023	01/29/01	0.44	0.366	0.194	2.26	0.715	1.5	0.13	20.3	12.2	U0.9
HC-5	DS	0854	01/29/01	0.20	U0.005	U0.005	0.21	0.018	2.4	U0.018	U2.3	0.5	U0.9
PS-1	DS	1418	01/29/01	0.76	0.124	0.450	0.47	0.474	2.6	0.083	U2.3	0.6	2.1
PS-2	DS	1528	01/29/01	0.86	0.176	0.429	0.40	0.490	2.9	0.093	2.5	0.6	1.4
PS-3	DS	1457	01/29/01	0.80	0.105	0.212	0.41	0.349	2.4	0.073	U2.8	0.7	2.3
EQP BLK		1235	01/29/01	U0.05	U0.005	U0.005	U0.05	U0.005	1.1	U0.018	U2.5	U0.1	1.7

J = < Reporting Limit

DS = Deep Surface

U = <MDL

Laboratory Supervisor: Arissanka

Table 19. Field data from the July 10, 2001 sampling.

Station	Depth	Time EST	Date	Latitude Deg Min	Longitude Deg Min	Dissolved Oxygen mg/L	pH SU	Salinity Field PSU	Salinity Lab PSU	Temperature °C	Flow CFS
HC-1	DS	0959	07/10/01	27 20.872	82 20.872	5.84	7.43	0.40	0.3	28.82	
HC-2	DS	1031	07/10/01	27 20.850	82 32.756	6.74	7.26	12.79	6.8	29.25	7.5
HC-2 REP	DS	1046	07/10/01	27 20.850	82 32.756	NA	NA	NA	4.5	NA	
HC-3	DS	0902	07/10/01	27 20.845	82 32.831	5.98	7.16	8.07	7.9	29.13	
HC-4	DS	0824	07/10/01	27 20.851	82 32.940	5.47	7.11	8.25	7.9	28.83	
HC-5	DS	0654	07/10/01	27 20.849	82 32.444	3.69	7.69	26.28	18.4	28.58	
PS-1	DS	1324	07/10/01	27 28.266	82 38.224	3.16	7.22	0.50	0.4	29.69	4.8
PS-2	DS	1453	07/10/01	27 28.328	82 38.375	5.67	7.41	12.97	12.4	30.23	
PS-3	DS	1413	07/10/01	27 28.331	82 38.407	8.12	7.92	23.98	22.4	31.13	

DS = Deep Surface
NA = Not Applicable

Laboratory Supervisor: Anissaunka

Table 20. Major ion and analytical data from the July 10, 2001 sampling.

Station	Depth	Time EST	Container	Date	Alkalinity Total mg/L	Chloride mg/L	Fluoride mg/L	H ₂ S _{total} mg/L	TSS mg/L	TRCl ₂ mg/L	Cl:SO ₄ mg:mg	Turbidity NTU
HC-1	DS	0959	011094	07/10/01	213.8	35	0.43	U1	2	U0.08	0.2	4.0
HC-2	DS	1031	011091	07/10/01	106.1	4381	1.9	U1	25	U0.08	3.4	18
HC-2 REP	DS	1046	011099	07/10/01	108.2	4625	1.9	U1	19	U0.08	3.9	17
HC-3	DS	0902	011095	07/10/01	90.1	4772	1.8	U1	3	U0.08	3.2	3.0
HC-4	DS	0824	011092	07/10/01	89.6	4195	1.7	U1	9	U0.08	2.6	3.4
HC-5	DS	0654	011096	07/10/01	106.6	10538	1.0	U1	9	U0.08	6.2	6.3
PS-1	DS	1324	011093	07/10/01	199.3	144	0.29	U1	U2	U0.08	1.2	1.3
PS-2	DS	1453	011098	07/10/01	170.5	7798	0.57	U1	14	U0.08	11.5	3.5
PS-3	DS	1413	011097	07/10/01	148.3	13680	0.7	U1	18	U0.08	9.8	7.7
EQP BLK		0745	011100	07/10/01	0.52	U1	U0.014	U1	U2	U0.08	-	U0.2

DS = Deep Surface

U = <MDL

Laboratory Supervisor: Adv B Sanka

Table 21. Nutrient, trace metals, and radiological data from the July 10, 2001 sampling.

Station	Depth	Time EST	Container	Date	TKN mg/L	NH ₄ N mg/L	NO ₃ N mg/L	Total- P mg/L	Ortho-P mg/L	Copper µg/L	Iron mg/L	Gross Alpha pCi/L	²²⁶ Ra pCi/L	²²⁸ Ra pCi/L
HC-1	DS	0959	011094	07/10/01	1.66	0.152	7.923	0.51	0.416	5.0	0.54	3.5	0.4	U0.8
HC-2	DS	1031	011091	07/10/01	0.81	0.228	0.193	2.30	0.528	2.4	0.92	49.4*	8.8	1.5
HC-2 REP	DS	1046	011099	07/10/01	0.59	0.217	0.146	1.85	0.493	2.2	0.53	27.0*	8.4	U0.8
HC-3	DS	0902	011095	07/10/01	0.74	0.410	0.229	2.26	0.669	2.4	0.87	25.3*	14.4	U0.8
HC-4	DS	0824	011092	07/10/01	0.63	0.328	0.234	2.50	0.763	3.4	0.98	31.2*	15.3	1.0
HC-5	DS	0654	011096	07/10/01	0.62	0.196	0.221	1.09	0.331	3.2	1.3	U57.9*	5.7	1.0
PS-1	DS	1324	011093	07/10/01	1.18	0.104	0.371	0.61	0.462	3.4	0.22	3.0	1.1	U0.8
PS-2	DS	1453	011098	07/10/01	1.10	0.072	0.253	0.36	0.269	3.0	0.86	41.8*	1.0	U0.9
PS-3	DS	1413	011097	07/10/01	1.05	0.025	0.043	0.36	0.104	3.0	1.4	U61.0*	0.8	U0.9
EQP BLK		0745	011100	07/10/01	U0.05	U0.005	U0.005	U0.05	U0.005	1.4	0.032	1.0	0.1	U1.0

DS = Deep Surface

U = <MDL

*= Elevated detection limits and/or counting errors due to low volume of sample used - method EPA 900.0 (Samples had high total dissolved solids).

See Appendix.

Laboratory Supervisor: AMB Sanka

Table 22. Field data from the September 5 and 6, 2001 sampling.

Station	Depth	Time EST	Date	Latitude Deg Min	Longitude Deg Min	Dissolved Oxygen mg/L	pH SU	Salinity Field PSU	Salinity Lab PSU	Temperature °C	Flow CFS
HC-1	DS	0729	09/05/01	27 20.873	82 32.695	4.71	6.94	0.53	0.4	27.97	
HC-2	DS	0744	09/05/01	27 20.846	82 32.755	6.81	7.45	7.95	2.9	29.43	6.6
HC-2 REP	DS	0744	09/05/01	27 20.846	82 32.755	NA	NA	NA	3.0	NA	
HC-3	DS	0835	09/05/01	27 20.836	82 32.806	6.40	7.36	9.34	8.4	29.17	
HC-4	DS	0858	09/05/01	27 20.857	82 32.941	5.80	7.33	8.95	8.6	29.10	
HC-5	DS	0900	09/06/01	27 20.859	82 33.002	5.38	8.14	34.51	27.6	31.14	
PS-1	DS	1109	09/05/01	27 28.258	82 38.236	1.75	7.26	0.54	0.4	27.47	<3.8*
PS-2	DS	1234	09/05/01	27 28.318	82 38.331	1.81	7.35	12.81	0.9	28.10	
PS-3	DS	1144	09/05/01	27 28.337	82 38.417	7.55	8.14	31.48	21.5	34.16	

DS = Deep Surface

NA = Not Applicable

* = Reported <3.8 CFS, since flow was measured from surface 'chip' float times and also approximate depths used in computing flow.

Laboratory Supervisor: Arbbsanka

Table 23. Major ion and analytical data from the September 5 and 6, 2001 sampling.

Station	Depth	Time EST	Container	Date	Alkalinity Total mg/L	Chloride mg/L	Fluoride mg/L	H ₂ S _{total} mg/L	TSS mg/L	TRCl ₂ mg/L	Cl:SO ₄ mg:mg	Turbidity NTU
HC-1	DS	0729	011494	09/05/01	294.2	75	0.60	U1	6	U0.08	0.5	9.1
HC-2	DS	0744	011490	09/05/01	102.5	1027	2.1	U1	U2	0.14	0.6	1.7
HC-2 REP	DS	0744	011491	09/05/01	103.6	1066	2.2	U1	U2	0.14	0.7	1.8
HC-3	DS	0835	011492	09/05/01	98.4	4428	1.8	U1	3	0.11	2.2	2.4
HC-4	DS	0858	011489	09/05/01	95.3	4428	1.8	U1	6	0.14	2.1	4.7
HC-5	DS	0900	011487	09/06/01	122.2	15570	0.98	U1	10	0.15	6.0	4.1
PS-1	DS	1109	011493	09/05/01	200.9	140	0.31	U1	U2	U0.08	2.5	0.8
PS-2	DS	1234	011488	09/05/01	191.6	406	0.36	U1	5	U0.08	2.1	2.4
PS-3	DS	1144	011495	09/05/01	151.2	12013	0.67	U1	20	U0.08	7.1	12
EQP BLK		0933	011496	09/05/01	U1	1	U0.20	U1	U2	U0.08	-	U0.2

DS = Deep Surface

U = <MDL

Laboratory Supervisor: AmBsaunka

Table 24. Nutrient, trace metals, and radiological data from the September 5 and 6, 2001 sampling.

Station	Depth	Time EST	Date	TKN mg/L	NH ₄ N mg/L	NO ₃ N mg/L	Total-P mg/L	Ortho-P mg/L	Copper µg/L	Iron mg/L	Gross Alpha pCi/L	Gross Alpha re-analyzed pCi/L	²²⁶ Ra pCi/L	²²⁸ Ra pCi/L
HC-1	DS	0729	09/05/01	1.69	0.762	0.196	0.31	0.368	1.7	0.73	2.1	-	0.7	U1.1
HC-2	DS	0744	09/05/01	0.31	0.201	0.189	2.44	0.426	3.3	0.38	24.2*	10.6	7.0	1.4
HC-2 REP	DS	0744	09/05/01	0.29	0.197	0.187	2.35	0.427	2.2	0.37	26.0*	12.3	6.5	1.2
HC-3	DS	0835	09/05/01	0.41	0.234	0.219	2.40	0.494	1.8	0.83	50.6*	13.0	14.0	1.5
HC-4	DS	0858	09/05/01	0.36	0.180	0.233	2.14	0.441	1.7	0.91	23.0*	16.5	8.8	U1.0
HC-5	DS	0900	09/06/01	0.39	0.096	0.092	0.95	0.032	2.7	1.7	U74.1*	1.5	4.1	U1.3
PS-1	DS	1109	09/05/01	0.99	0.223	0.401	0.41	0.421	1.2	0.17	3.0	-	0.9	U1.0
PS-2	DS	1234	09/05/01	1.17	0.316	0.265	0.42	0.434	2.7	0.19	3.6	-	0.7	U1.1
PS-3	DS	1144	09/05/01	1.48	0.097	0.051	0.36	0.163	3.4	1.3	U65.7*	2.2	0.4	U1.1
EQP BLK		0933	09/05/01	U0.05	U0.005	U0.005	U0.05	U0.005	1.6	U0.018	U0.6	-	U0.2	U1.0

DS = Deep Surface

U = <MDL

* = Elevated detection limits and/or counting errors due to low volume of sample used - method EPA 900.0 (Samples had high total dissolved solids).

Reanalyzed by method EPA 900.1 on 04/25/2002- See Appendix

Laboratory Supervisor: ANISSAUKA

Table 25. Field data from the January 15, 2002 sampling.

Station	Depth	Time EST	Date	Latitude		Longitude		Dissolved Oxygen mg/L	pH SU	Salinity Field PSU	Salinity Lab PSU	Temperature °C	Flow CFS
HC-1	DS	1157	01/15/02	27	20.874	82	32.695	8.15	8.25	0.07	U0.2	20.52	NA
HC-2	DS	1046	01/15/02	27	20.850	82	32.754	7.29	7.49	6.14	7.5	24.97	
HC-2 REP	DS	1050	01/15/02	27	20.850	82	32.754	NA	NA	NA	3.0	NA	
HC-3	DS	1016	01/15/02	27	20.839	82	32.836	6.74	7.34	6.98	7.6	24.13	
HC-4	DS	0945	01/15/02	27	20.857	82	32.942	6.41	7.21	7.18	7.1	23.36	
HC-5	DS	1230	01/15/02	27	20.853	82	32.996	6.84	7.75	32.8	31.2	17.44	NA
PS-1	DS	1505	01/15/02	27	28.294	82	38.217	4.78	7.19	0.58	0.5	21.35	
PS-2	DS	1645	01/15/02	27	28.351	82	38.450	4.68	7.38	0.87	0.9	20.05	
PS-3	DS	1552	01/15/02	27	28.354	82	38.414	5.39	7.38	0.91	0.8	20.43	

DS = Deep Surface
NA = Not Applicable

Laboratory Supervisor: AmBsewka

Table 26. Major ion and analytical data from the January 15, 2002 sampling.

Station	Depth	Time EST	Container	Date	Alkalinity Total mg/L	Chloride mg/L	Fluoride mg/L	H ₂ S _{total} mg/L	TSS mg/L	TRCl ₂ mg/L	Cl:SO ₄ mg:mg	Turbidity NTU
HC-1	DS	1157	020059	01/15/02	56	10	0.13J	U1	2	U0.08	0.5	4.2
HC-2	DS	1046	020054	01/15/02	105	2428	2.0	U1	7	0.16	1.5	5.8
HC-2 REP	DS	1050	020058	01/15/02	93	2295	2.6	U1	3	0.14	1.6	2.0
HC-3	DS	1016	020055	01/15/02	91	4247	1.9	U1	4	0.17	2.8	4.2
HC-4	DS	0945	020057	01/15/02	91	4223	1.7	U1	6	0.14	3.0	5.2
HC-5	DS	1230	020056	01/15/02	114	18791	0.91	U1	8	0.17	8.2	3.0
PS-1	DS	1505	020062	01/15/02	206	180	0.37	U1	3	U0.08	1.9	3.4
PS-2	DS	1645	020060	01/15/02	198	413	0.38	U1	8	U0.08	3.4	4.8
PS-3	DS	1552	020061	01/15/02	196	346	0.39	U1	62	U0.08	3.1	29
EQP BLK		0900	020063	01/15/02	U1	U1	U0.044	U1	U2	U0.08	-	U0.2

DS = Deep Surface
 NA = Not Applicable
 U = <MDL

Laboratory Supervisor: ANB Samka

Table 27. Nutrient, trace metals, and radiological data from the January 15, 2002 sampling.

Station	Depth	Time EST	Date	TKN mg/L	NH ₄ N mg/L	NO ₃ N mg/L	Total-P mg/L	Ortho-P mg/L	Copper μg/L	Iron mg/L	Gross Alpha pCi/L	Gross Alpha re-analyzed pCi/L	²²⁶ Ra pCi/L	²²⁸ Ra pCi/L
HC-1	DS	1157	01/15/02	0.42	0.022	0.049	0.27	0.154	2.8	0.13	1.9	-	0.4	U0.9
HC-2	DS	1046	01/15/02	0.43	0.220	0.094	2.23	0.612	5.2	0.19	15.2*	9.2	9.0	1.7
HC-2 REP	DS	1050	01/15/02	0.36	0.262	0.132	2.81	0.771	U2.0*	0.054	18.3*	10.9	11.3	1.3
HC-3	DS	1016	01/15/02	0.43	0.239	0.127	2.60	0.760	U2.0*	0.12	35.1*	8.7	13.2	1.5
HC-4	DS	0945	01/15/02	0.39	0.192	0.149	2.35	0.780	U2.0*	0.17	35.9*	12.3	11.1	1.4
HC-5	DS	1230	01/15/02	0.25	0.059	0.041	0.95	0.048	2.4	U0.090*	U75.7*	1.9	1.0	U1.0
PS-1	DS	1505	01/15/02	1.32	0.316	0.601	0.57	0.412	2.1	0.15	2.2	-	1.5	U1.0
PS-2	DS	1645	01/15/02	1.37	0.281	0.602	0.61	0.392	4.3	0.33	4.5	-	0.8	U0.9
PS-3	DS	1552	01/15/02	1.44	0.296	0.628	0.64	0.411	2.6	0.26	U2.8	-	0.8	U0.9
EQP BLK		0900	01/15/02	U0.05	U0.005	U0.005	U0.05	U0.005	3.5	U0.018	U0.7	-	U0.2	U0.9

DS = Deep Surface

U = <MDL

* = Elevated detection limits and/or counting errors due to low volume of sample used - method EPA 900.0 (Samples had high total dissolved solids).

Re-analyzed by method EPA 900.1 on 04/25/2002- See Appendix

Laboratory Supervisor: ANISSAUKA

Table 28. Field data from the July 22, 2002 sampling.

Station	Depth	Time EST	Date	Latitude		Longitude		Dissolved Oxygen mg/L	pH SU	Salinity Field PSU	Salinity Lab PSU	Temperature °C	Flow CFS
HC-1	DS	0817	07/22/02	27	20.868	82	32.695	3.04	7.04	0.43	0.3	26.81	NA
HC-2	DS	0858	07/22/02	27	20.865	82	32.697	6.79	7.39	7.66	8.4	28.73	
HC-2 REP	DS	0910	07/22/02	27	20.865	82	32.697	NA	NA	NA	9.4	NA	
HC-3	DS	1004	07/22/02	27	20.835	82	32.760	6.75	7.43	7.85	7.7	29.43	
HC-4	DS	1030	07/22/02	27	20.856	82	32.940	5.46	8.03	31.69	8.4	30.82	
HC-5	DS	1215	07/22/02	27	20.860	82	32.942	6.37	8.10	34.04	33.9	30.88	NA
PS-1	DS	1425	07/22/02	27	28.294	82	38.217	2.63	7.25	0.64	0.4	28.03	
PS-2	DS	1523	07/22/02	27	28.323	82	38.411	2.80	7.24	4.85	3.4	27.78	
PS-3	DS	1455	07/22/02	27	28.265	82	38.221	0.50	7.23	11.34	3.2	27.64	

DS = Deep Surface

NA = Not Applicable

Laboratory Supervisor: AWissanta

Table 29. Major ion and analytical data from the July 22, 2002 sampling.

Station	Depth	Time EST	Container	Date	Alkalinity Total mg/L	Chloride mg/L	Fluoride mg/L	H ₂ S _{total} mg/L	TSS mg/L	TRCl ₂ mg/L	Cl:SO ₄ mg:mg	Turbidity NTU
HC-1	DS	0817	021030	07/22/02	NA	55	0.74	U1	6	NA	NA	NA
HC-2	DS	0858	021034	07/22/02	NA	5119	2.2	U1	U2	NA	NA	NA
HC-2 REP	DS	0910	021031	07/22/02	NA	5143	2.2	U1	4	NA	NA	NA
HC-3	DS	1004	021037	07/22/02	NA	3999	2.2	U1	5	NA	NA	NA
HC-4	DS	1030	021033	07/22/02	NA	4360	2.2	U1	8	NA	NA	NA
HC-5	DS	1215	021036	07/22/02	NA	19392	1.1	U1	9	NA	NA	NA
PS-1	DS	1425	021029	07/22/02	NA	147	0.38	U1	8	NA	NA	NA
PS-2	DS	1523	021032	07/22/02	NA	1939	0.49	U1	3	NA	NA	NA
PS-3	DS	1455	021035	07/22/02	NA	2240	0.49	U1	2	NA	NA	NA
EQP BLK		0750	021104	07/23/02	NA	U1	U0.20	U1	U2	NA	NA	NA

DS = Deep Surface
 NA = Not Applicable
 U = <MDL

Laboratory Supervisor: AWissanka

Table 30. Nutrient, trace metals, and radiological data from the July 22, 2002 sampling.

Station	Depth	Time EST	Container	Date	TKN mg/L	NH ₄ N mg/L	NO ₃ N mg/L	Total-P mg/L	Ortho-P mg/L	Copper μg/L	Iron mg/L	Gross Alpha pCi/L	²²⁶ Ra pCi/L	²²⁸ Ra pCi/L
HC-1	DS	0817	021030	07/22/02	NA	NA	NA	0.40	NA	U1.0	1.0	3.4	1.0	U0.9
HC-2	DS	0858	021034	07/22/02	NA	NA	NA	2.55	NA	U1.0	0.053	22.0	15.4	U0.8
HC-2 REP	DS	0910	021031	07/22/02	NA	NA	NA	2.57	NA	1.3	0.053	19.8	14.5	U0.8
HC-3	DS	1004	021037	07/22/02	NA	NA	NA	2.36	NA	U1.0	0.060	12.2	9.8	0.9
HC-4	DS	1030	021033	07/22/02	NA	NA	NA	2.35	NA	U1.0	0.062	17.6	14.2	U0.9
HC-5	DS	1215	021036	07/22/02	NA	NA	NA	0.12	NA	1.2	U0.050	U1.9	0.4	0.9
PS-1	DS	1425	021029	07/22/02	NA	NA	NA	0.75	NA	2.8	0.29	1.8	0.4	U0.8
PS-2	DS	1523	021032	07/22/02	NA	NA	NA	0.57	NA	U1.0	0.15	U1.9	0.7	U0.8
PS-3	DS	1455	021035	07/22/02	NA	NA	NA	0.56	NA	1.7	0.15	3.3	0.4	U0.8
EQP BLK		0750	021104	07/23/02				U0.05		U1.0	U0.050	U1.8	0.2	U0.8

DS = Deep Surface
NA = Not Applicable
U = <MDL

Laboratory Supervisor: Anissa Anika

Table 31. Sediment trace metal and analytical data from the July 27, 1999 sampling.

Station	Date	Cadmium mg/kg dw	Arsenic mg/kg dw	Barium mg/kg dw	Chromium mg/kg dw	Silver mg/kg dw	Nickel mg/kg dw	Lead mg/kg dw	Selenium mg/kg dw	Copper mg/kg dw	Iron mg/kg dw	TOC mg/kg dw	H ₂ S mg/kg dw
HC-1	07/27/99	0.389	0.330	415	2.32	1.55	0.69	1.84	0.33	1.94	628	10400	82
HC-2	07/27/99	0.329	0.329	352	3.75	1.32	1.04	5.81	U0.04	5.36	870	2030	16J
HC-3	07/27/99	0.397	0.280	226	4.59	0.91	0.66	1.63	U0.04	3.14	748	6900	83
HC-4	07/27/99	0.374	11.2	439	7.85	1.74	4.79	0.482	0.24	7.51	3772	10800	110
HC-5	07/27/99	0.328	1.152	35.0	3.42	0.42	0.66	1.29	U0.04	1.99	1002	6210	120
PS-1	07/27/99	0.182	0.149	11.9	1.36	U0.10	0.61	0.565	U0.04	2.15	224	2060	25J
PS-1 REP	07/27/99	0.243	0.921	10.4	0.56	U0.10	U0.20	0.600	U0.04	1.29	223	1230	25J
PS-2	07/27/99	0.189	0.225	30.5	1.14	0.48	0.42	0.320	U0.04	1.11	233	2080	17J
PS-3	07/27/99	0.129	0.829	41.4	2.12	0.26	0.62	0.492	0.20	1.22	517	7270	31J

J = < Reporting Limit

U = <MDL

Laboratory Supervisor: AWissanta

Table 32. Sediment grain size data from the July 27, 1999 sampling.

Station	Date	% Solid	% Organic	% Sand	% Silt	% Clay	Mean µm	Median µm	Mode µm	Skewness	Kurtosis
HC-1	7/27/1999	74.4	3.0	97.5	2.1	0.3	582.60	681.20	2379.0	-1.13	2.84
HC-2	7/27/1999	81.9	0.9	99.6	0.3	0.1	867.20	933.70	2379.0	-1.14	4.32
HC-3	7/27/1999	78.4	1.8	99.1	0.7	0.2	616.10	641.80	905.10	-1.27	6.28
HC-4	7/27/1999	68.6	3.3	89.6	9.3	1.1	758.20	1841.0	2379.0	-1.58	1.84
HC-5	7/27/1999	69.1	2.4	81.9	15.4	2.7	126.30	165.20	168.80	-1.16	1.97
PS-1	7/27/1999	75.2	1.0	97.8	1.9	0.3	314.20	292.10	245.20	-1.24	8.07
PS-1 REP	7/27/1999	77.5	0.4	99.0	0.9	0.2	298.30	275.80	245.20	-1.03	9.29
PS-2	7/27/1999	76.3	0.7	99.0	0.8	0.2	473.20	461.60	390.90	-1.04	6.87
PS-3	7/27/1999	70.9	1.4	87.1	12.2	0.7	271.30	358.50	390.90	-1.51	2.40

Laboratory Supervisor: Adriana

Table 33. Sediment trace metal and analytical data from the July 10, 2001 sampling.

Station	Date	Cadmium mg/kg dw	Arsenic mg/kg dw	Barium mg/kg dw	Chromium mg/kg dw	Silver mg/kg dw	Nickel mg/kg dw	Lead mg/kg dw	Selenium mg/kg dw	Copper mg/kg dw	Iron mg/kg dw	TOC mg/kg dw	H ₂ S mg/kg dw
HC-1	07/10/01	0.14J	0.59J	7.6	2.1	U0.19	0.56J	13	U0.43	3.5	830	7840	69
HC-2	07/10/01	0.14J	1.1	5.4	4.7	U0.19	2.5J	5.9	U0.43	32	1800	15400	49
HC-2 REP	07/10/01	0.16J	1.3	6.5	2.8	U0.19	0.59J	4.3	U0.43	3.2	1100	5450	U2.5
HC-3	07/10/01	0.14J	1.9	8.7	3.8	U0.19	1.4J	11	U0.43	7.1	1800	15100	29
HC-4	07/10/01	0.35J	3.1	15	9.7	0.21J	3.7J	18	0.54J	13	2400	53800	33
HC-5	07/10/01	0.10J	1.3	4.2	4.9	U0.19	1.0J	6.2	U0.43	3.4	1100	9900	65
PS-1	07/10/01	U0.087	U0.45	2.8	0.73J	U0.19	U0.43	0.77	U0.43	1.3	200	1690	U2.6
PS-2	07/10/01	U0.087	U0.45	3.6	1.1	U0.19	U0.43	1.0	U0.43	1.1	190	1680	U2.6
PS-3	07/10/01	0.13J	1.4	5.7	4.7	U0.19	1.0J	5.2	0.48J	7.3	1300	16800	U3.4

J = < Reporting Limit

U = <MDL

Laboratory Supervisor: AW Bzianka

Table 34. Sediment grain size data from the July 10, 2001 sampling.

Station	Date	% Solid	% Organic	% Sand	% Silt	% Clay	Mean μm	Median μm	Mode μm	Skewness	Kurtosis
HC-1	7/10/2001	64.5	5.9	38.8	56.6	4.6	41.30	38.63	23.81	-0.06	-0.17
HC-2	7/10/2001	70.6	3.0	85.9	12.0	2.1	136.60	152.00	153.80	-1.10	2.62
HC-2 REP	7/10/2001	64.7	4.8	95.9	3.1	1.0	181.90	194.00	185.30	-3.06	15.30
HC-3	7/10/2001	73.6	1.0	40.2	55.2	4.7	41.19	40.85	23.81	-0.28	-0.19
HC-4	7/10/2001	81.8	2.5	85.9	12.0	2.1	136.60	152.00	153.80	-1.10	2.62
HC-5	7/10/2001	64.3	4.2	69.8	25.5	4.7	85.09	139.90	203.50	-0.89	0.11
PS-1	7/10/2001	87.4	1.6	93.5	5.4	1.1	166.70	181.20	185.30	-2.12	9.10
PS-2	7/10/2001	86.4	1.2	89.1	9.4	1.4	146.60	181.20	185.30	-2.36	6.45
PS-3	7/10/2001	62.2	2.2	93.0	5.7	1.3	165.90	189.80	185.30	-2.65	9.65

Laboratory Supervisor: ANWISSAUKA

Table 35. Sediment trace metal and analytical data from the July 22, 2002 sampling.

Station	Date	Cadmium mg/kg dw	Arsenic mg/kg dw	Barium mg/kg dw	Chromium mg/kg dw	Silver mg/kg dw	Nickel mg/kg dw	Lead mg/kg dw	Selenium mg/kg dw	Copper mg/kg dw	Iron mg/kg dw	TOC mg/kg dw	H ₂ S mg/kg dw
HC-1	07/22/02	0.66J	5.6	28	11	0.47J	5.8	46	U0.86*	27	3700	NA	U2.6J
HC-2	07/22/02	U0.087	0.83	6.5	14	U0.19	1.5J	13	U0.43	29	3100	NA	24J
HC-2 REP	07/22/02	U0.087	0.48J	6.5	3.2	U0.19	1.8J	9.9	U0.43	12	1400	NA	94
HC-3	07/22/02	U0.087	0.96	8.0	11	U0.19	3.3J	1100	U0.86*	11	3200	NA	22J
HC-4	07/22/02	0.21J	0.82	7.3	2.5J	U0.19	0.83J	6.4	U1.3*	1.7J	720	NA	U2.4J
HC-5	07/22/02	U0.087	2.2	6.7	9.9	0.25J	2.1J	6.3	U0.43	6.6	2200	NA	35
PS-1	07/22/02	U0.087	U0.45	5.1	1.5	U0.19	U0.43	1.3	U0.43	4.0	360	NA	U2.6J
PS-2	07/22/02	0.16J	3.2	20	19	0.38J	3.8J	12	1.1	24	4800	NA	330
PS-3	07/22/02	U0.087	2.5	11	11	0.23J	2.3J	7.3	0.62J	14	2700	NA	100

J = < Reporting Limit

NA = Not Applicable

* = Elevated detection limits due to sample matrix interference which required sample or extract dilution

U = <MDL

Laboratory Supervisor: AWB Sanka