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HYDROGRAPHIC DATA FROM
THE INSHORE BAYS AND
ESTUARIES OF EVERGLADES
NATIONAL PARK
FLORIDA, 1957 – 1959

by

Durbin Tabb, David Dubrow
and Raymond Manning

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HYDROGRAPHIC DATA FROM THE INSHORE BAYS
AND ESTUARIES OF EVERGLADES NATIONAL PARK, FLORIDA, 1957 -- 1959.

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A study of the ecology of the estuarine waters of northern Florida Bay was initiated by The Marine Laboratory, University of Miami, during the summer of 1957, with the support of the Florida State Board of Conservation. During the course of this study, a large amount of hydrographic data was accumulated from the area, which lies at the southern extremity of the Florida peninsula (Figure 1).

In response to many requests for information on the hydrography of this relatively unknown area, the accompanying tables of data from selected stations have been prepared. The location of these stations is shown in Figure 2. For a large-scale chart of the area, the reader is referred to U. S. Coast and Geodetic Survey chart No. 598.

The data presented here include station number, date, time, surface and bottom temperatures, surface and bottom salinities in parts per thousand, ml/L of dissolved oxygen, percent saturation of dissolved oxygen, pH and tide stage. All values for oxygen and pH are from bottom samples unless otherwise indicated in the tables. B or S refer to bottom or surface samples respectively. Salinities and temperatures were taken with a hydrometer kit and centigrade thermometer in the field; the salinities were subsequently corrected for temperature. Dissolved oxygen was determined by the Winkler method. Percent oxygen saturation was computed from the nomogram given by Richards and Corwin (1956). All pH values were determined with a Beckman Model N pH meter.

In the first series of tables (Part I, pp. 5 to 27), hydrographic data are presented for representative stations over a two year period. The second series of tables (Part II, pp. 28 to 33) consists of diurnal observations at several stations between May, 1958, and June, 1959.

In the tables, stations prefixed by FB indicate Florida Bay stations, those prefixed by CB indicate Coot Bay stations, and those prefixed by WWB indicate Whitewater Bay stations. Station BW IV is located at the juncture of the Buttonwood (Coot Bay-Flamingo) Canal with Coot Bay.

Hydrographic data have been gathered in this area by the U. S. Fish and Wildlife Service in their "red tide" studies. Stations visited by that organization are shown in Figure 2 as USFWS "D" stations. (Finucane and Dragovich, 1959)

The last table (Part III, p. 35) is a summary of climatological data recorded by the personnel of the Cape Sable Ranger Station between July, 1957 and June, 1959. Included in these data are monthly maximum, minimum, and average temperatures, and precipitation. We are indebted to the U. S. National Park Service for placing this information at our disposal.

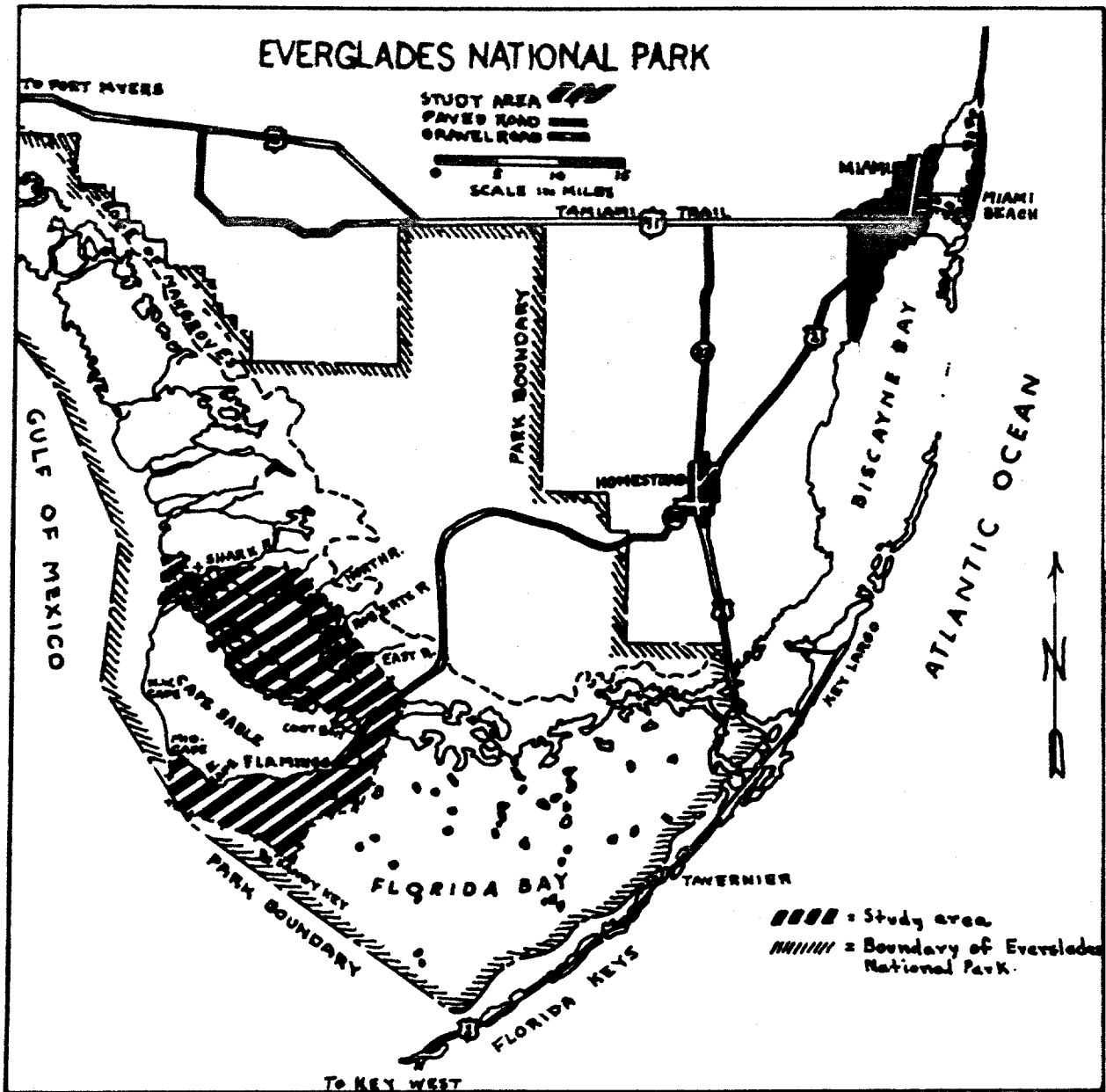


Figure 1: Map of south Florida from the Tamiami Trail, U.S.41, to the southern boundary of Everglades National Park, showing extent of sampling area.

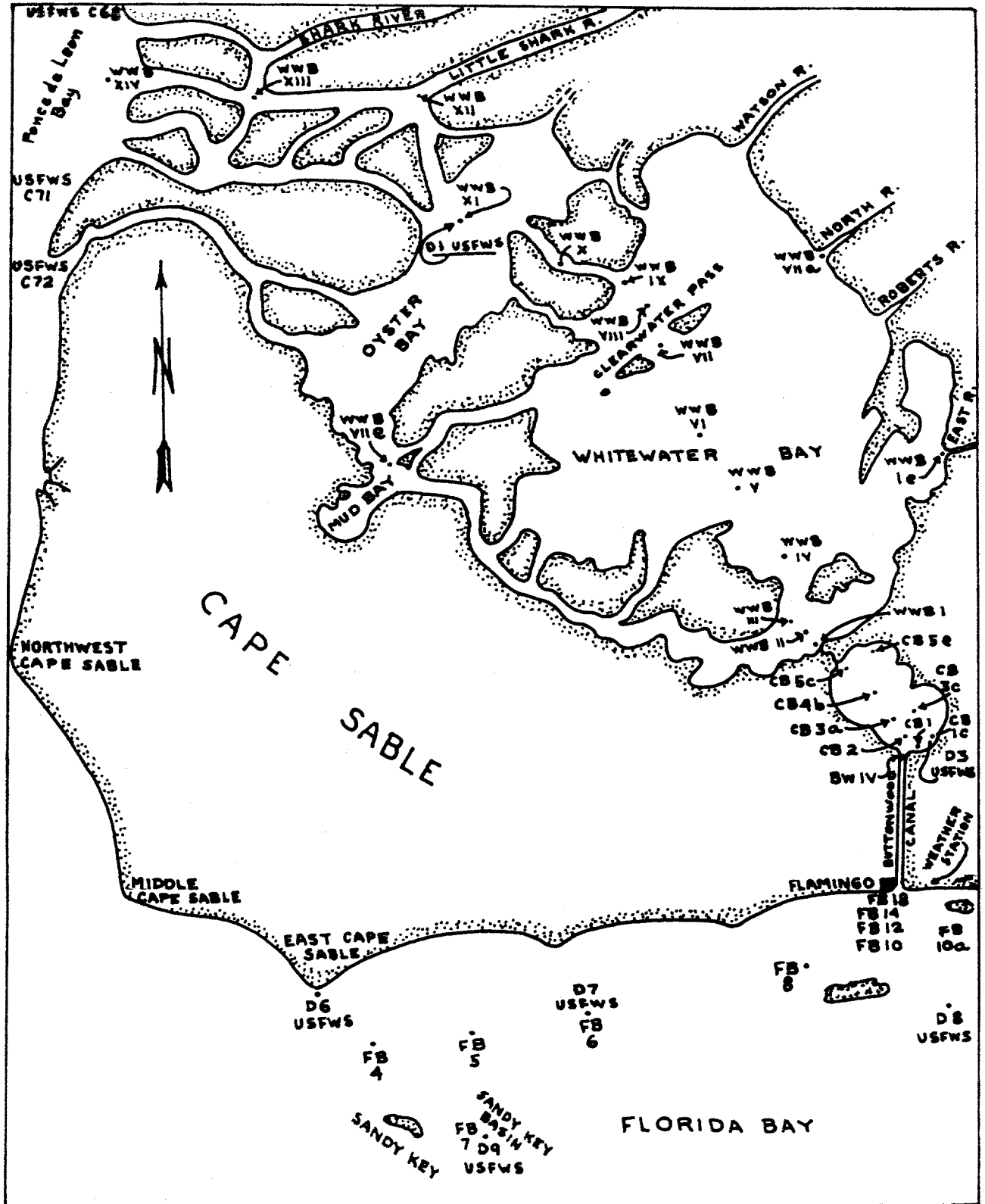


Figure 2: Cape Sable and adjacent inshore waters, showing location of sampling stations. FB = Florida Bay; CB = Coot Bay; WWB = Whitewater Bay; D-USFWS = U.S. Fish and Wildlife Service, Red Tide Investigation stations.

Part I: Hydrographic data from representative stations in the study area, covering the period Sept., 1957 through June, 1959.

Station No.	Depth	Date	Time	S. Temp. C°	S. Salin. ppt.	B. Temp. C°	B. Salin. ppt.	O ₂ ML/L	O ₂ % Sat.	pH	Tide
FB #4	7 ft.	9/25/57	1110	30.0	43.1	30.2	43.2	-	-	-	-
		12/18/57	-	17.4	32.1	18.1	32.7	-	-	-	low
		7/18/58	1225	30.0	36.2	30.0	37.1	4.82	114.7	8.1	flood
		8/22/58	1020	32.5	38.0	33.0	38.2	4.50	112.5	7.9	flood
		10/24/58	1155	25.1	32.2	25.8	32.3	4.65	100.0	7.9	flood
		1/13/59	1430	16.1	32.7	16.8	32.9	-	-	-	flood
		6/3/59	1015	28.5	38.7	28.0	38.8	4.03	93.7	8.1	flood
FB #5	7 ft.	9/25/57	1140	29.8	42.9	30.0	42.8	-	-	-	-
		11/5/57	1244	23.3	37.7	23.3	37.7	4.62	97.7	7.87	flood
		7/18/58	1150	30.0	32.9	30.2	32.6	4.79	110.4	8.13	flood
		7/18/58	1235	30.0	34.5	-	-	-	-	-	flood
		10/24/58	1140	25.5	32.6	25.5	33.0	4.52	97.2	7.87	flood
		6/3/59	1000	28.5	39.3	28.0	39.1	-	-	-	flood
FB #6	7 ft.	9/25/57	1200	29.9	43.1	30.0	43.0	-	-	-	ebb
		11/5/57	1100	23.0	34.5	23.0	34.5	4.49	93.7	7.8	flood
		11/5/57	1221	23.3	36.5	23.3	36.6	-	-	-	flood
		1/15/58	1030	18.4	31.0	-	-	-	-	-	-
		7/18/58	1125	29.9	30.7	29.8	30.7	4.29	97.1	8.2	flood
		7/18/58	1300	30.0	31.1	-	-	-	-	-	flood
		8/22/58	0955	32.5	38.1	32.2	38.0	4.50	111.0	7.98	flood
		10/16/58	0720	25.0	38.3	24.8	38.1	-	-	-	ebb
		11/11/58	1015	27.3	31.4	-	-	-	-	-	ebb
		1/13/59	1440	16.6	32.9	-	-	-	-	-	flood
6/3/59	0930	28.5	40.9	29.0	40.9	3.65	88.0	8.2	flood		
FB #7	7 ft.	12/15/58	1350	22.0	32.1	22.0	32.3	-	-	-	low
		12/15/58	1445	22.0	32.1	-	-	-	-	-	flood
		1/13/59	0815	15.4	32.8	15.5	33.3	-	-	-	-
		1/13/59	-	15.0	32.4	15.0	32.2	-	-	-	-
		1/13/59	1240	16.4	32.5	-	-	-	-	-	flood
FB #8	5 ft.	9/25/57	1220	30.2	43.1	30.2	43.0	-	-	-	flood
		11/5/57	1233	23.1	36.3	23.5	36.7	-	-	-	flood
		4/24/58	-	27.9	32.0	27.6	32.3	-	-	-	-

Station No.	Depth	Date	Time	S. Temp. C°	S. Salin ppt.	B. Temp. C°	B Salin ppt.	O ₂ ML/L	O ₂ % Sat.	pH	Tide	
FB #8 (Contd.)		5/8/58	1435	26.7	33.4	26.5	33.7	-	-	-	ebb	
		7/18/58	1110	29.6	29.8	30.0	29.7	4.16	93.9	8.1	ebb	
		7/18/58	1305	30.1	30.4	-	-	-	-	-	flood	
		8/22/58	0940	32.2	37.8	32.3	37.9	4.55	112.0	7.92	flood	
		10/16/58	0920	27.0	37.7	25.4	37.2	-	-	-	ebb	
		10/24/58	1120	25.2	34.7	25.2	34.9	4.42	96.2	7.87	flood	
		1/13/59	1450	17.0	32.7	-	-	-	-	-	flood	
		6/3/59	0910	29.0	40.5	29.0	40.5	3.71	88.6	8.3	flood	
		6/3/59	1145	29.0	41.9	-	-	-	-	-	flood	
	FB #10 6 ft.		9/25/57	1240	30.6	44.7	30.2	44.9	-	-	-	flood
			1/15/58	1155	20.0	31.1	-	-	-	-	-	flood
			2/26/58	1425	21.9	30.9	22.3	31.8	3.78	76.5	7.85	ebb
			4/24/58	-	27.3	31.7	27.0	31.1	-	-	-	-
		6/26/58	-	31.5	31.4	31.0	29.8	4.37	100.0	8.2	ebb	
		7/18/58	1050	29.3	26.8	29.5	27.0	3.34	73.6	8.16	ebb	
		7/18/58	1315	30.0	28.8	-	-	-	-	-	flood	
		8/10/58	1445	28.8	36.0	28.8	36.0	-	-	-	ebb	
		8/22/58	0930	32.2	37.6	-	-	-	-	-	ebb	
		9/8/58	1445	30.9	38.2	30.9	37.8	-	-	-	ebb	
		9/18/58	1400	31.8	36.9	31.8	35.5	4.90	120.0	8.18	ebb	
		10/20/58	1330	25.8	36.0	25.7	36.0	4.42	97.7	7.88	ebb	
		10/24/58	1105	25.4	35.2	25.6	34.2	4.34	93.8	7.85	flood	
		12/1/58	1345	24.0	30.9	24.5	31.1	-	-	-	ebb	
		12/2/58	1000	24.4	31.6	24.4	31.6	-	-	-	ebb	
		12/18/58	1100	19.0	31.0	19.0	31.2	-	-	-	ebb	
		1/13/59	1455	16.5	31.7	-	-	-	-	-	flood	
		4/8/59	0830	24.0	36.6	24.0	36.5	4.20	90.3	8.0	flood	
		5/13/59	0800	26.4	40.0	-	-	-	-	-	flood	
		6/3/59	0900	29.0	41.1	28.5	40.9	3.50	84.3	8.6	flood	
		6/3/59	1200	29.0	40.9	-	-	-	-	-	flood	
	6/3/59	1120	30.0	42.4	30.0	42.6	-	-	-	flood		
FB #10 A 5 ft.		9/25/57	1245	31.8	46.0	31.2	45.5				flood	
		11/5/57	1256	23.3	39.1	23.8	39.7				flood	
		2/10/58	1420	17.0	31.8	16.9	31.8				ebb	
		2/10/58	1426	16.2	31.8	15.6	31.4				ebb	
		8/10/58	1450	28.7	33.8	28.8	35.6				ebb	
		5/13/58	0720	26.3	47.7	-	-				flood	
FB #12 4 ft.		9/12/57	1210	30.5	45.0	-	-	-	-	-	ebb	
		9/25/57	1315	31.1	45.4	30.9	45.8	-	-	-	flood	
		12/19/57	1236	20.9	32.8	20.6	32.7	-	-	-	flood	

Station No.	Depth	Date	Time	S. Temp. C°	S. Salin ppt.	B. Temp. C°	B. Salin ppt.	O ₂ ML/L	O ₂ % Sat.	pH	Tide
FB #12 (Contd.)		3/12/58	1115	24.3	32.0	24.3	32.0	-	-	-	ebb
		10/15/58	0800	24.5	32.4	24.8	32.5	-	-	-	-
		11/11/58	1120	27.7	31.2	-	-	-	-	-	flood
		12/17/58	1435	19.6	27.6	-	-	-	-	-	ebb
		12/18/58	1045	-	-	18.8	29.2	-	-	-	ebb
FB #14	5 ft.	9/12/57	1200	29.2	44.7	31.5	45.2	-	-	-	ebb
		9/29/57	1325	31.4	42.8	29.7	45.9	-	-	-	flood
		3/20/59	1305	23.5	33.8	23.5	34.0	-	-	-	-
FB #18	5 ft.	9/10/57	1105	32.1	41.2	32.4	42.9	2.52	64.9	7.9	-
		9/11/57	1200	30.9	37.5	31.1	37.9	2.02	48.9	7.8	ebb
		9/13/57	1155	30.2	43.5	31.0	44.0	-	-	-	-
		9/25/57	1345	31.4	35.6	30.6	46.0	-	-	-	high
		10/7/57	1500	29.4	39.7	29.2	40.4	4.25	101.4	-	flood
		10/21/57	1443	26.4	32.0	36.3	37.7	-	-	-	low
		11/5/57	1322	-	-	25.2	41.5	4.47	101.6	8.0	flood
		11/19/57	0930	25.7	31.5	25.9	35.0	3.35	73.6	7.7	ebb
		11/21/57	1016	25.3	21.6	25.7	26.3	-	-	-	ebb
		12/2/57	1445	18.8	25.0	18.9	27.3	-	-	-	-
		12/4/57	1005	19.7	26.9	20.3	33.9	4.50	89.3	7.98	ebb
		12/5/57	1155	17.2	23.5	17.3	28.0	4.43	80.0	7.90	ebb
		12/18/57	1425	19.5	24.1	20.5	25.4	-	-	-	flood
		1/27/58	1515	21.3	23.8	22.0	31.4	-	-	7.6	low
		1/30/58	-	18.8	21.5	18.5	31.2	-	-	-	flood
		2/10/58	1445	16.5	19.5	16.6	26.6	-	-	-	ebb
		2/26/58	-	22.3	30.7	22.5	30.8	-	-	7.85	ebb
		3/26/58	1435	22.5	20.3	21.8	27.6	-	-	-	-
		3/26/58	1442	22.5	21.7	22.0	30.6	-	-	-	-
		4/10/58	1333	30.5	28.7	27.0	29.0	-	-	-	-
		4/24/58	-	29.5	28.7	28.6	30.1	-	-	-	-
		4/24/58	-	27.7	28.7	26.8	29.0	-	-	-	-
		5/5/58	-	-	-	29.5	30.2	-	-	8.2	-
		5/30/58	1145	28.5	36.2	29.0	36.5	-	-	-	flood
		6/26/58	1535	32.0	27.8	30.7	28.4	-	-	-	ebb
		7/18/58	1330	30.5	26.1	30.4	26.3	-	-	-	flood
		8/10/58	1430	28.7	32.9	28.4	33.2	-	-	-	ebb
		8/18/58	1320	32.3	23.8	32.1	31.1	-	-	-	ebb
		8/22/58	0920	31.6	36.2	32.2	38.8	4.50	112.0	7.9	flood
		10/24/58	1007	25.0	19.6	24.3	35.5	4.28	91.0	7.75	flood
		12/1/58	1335	25.0	16.7	26.0	30.1	-	-	-	ebb
		1/13/59	1500	16.9	19.0	16.0	31.3	-	-	-	flood
		2/18/59	1010	26.9	34.0	25.6	34.2	-	-	-	flood
		4/8/59	0840	24.5	34.4	24.0	34.4	-	-	-	-
		5/13/59	0805	27.2	43.2	27.0	44.0	-	-	-	flood
		5/14/59	0840	27.0	43.9	22.3	42.0	-	-	-	flood

Station No.	Depth	Date	Time	S Temp. C°	S Salin. ppt.	B Temp. C°	B Salin. ppt.	O ₂ ML/L	O ₂ % Sat.	pH	Tide		
FB #18 (Contd.)		6/3/59	0845	28.5	40.1	29.0	40.1	-	-	-	low		
		6/3/59	1205	29.5	40.8	-	-	-	-	-	flood		
BW IV	5 ft.	9/10/57	1225	31.3	37.4	31.6	37.6	2.69	65.6	7.9	ebb		
		9/11/57	1330	31.2	37.8	31.6	39.1	3.36	83.0	7.8	low		
		9/13/57	1030	29.5	36.9	29.7	38.0	-	-	-	ebb		
		9/25/57	1455	31.2	35.1	30.9	35.7	-	-	-	flood		
		10/7/57	1330	29.0	28.8	29.5	29.3	2.71	60.6	-	flood		
		10/21/57	1447	-	-	26.1	39.2	-	-	-	flood		
		10/25/57	1546	26.1	27.4	25.9	27.8	-	-	-	flood		
		11/19/57	1025	26.0	27.2	26.3	27.2	3.75	78.6	7.70	ebb		
		11/21/57	1055	25.3	23.9	25.3	23.5	-	-	-	ebb		
		12/2/57	1450	19.5	26.0	19.0	25.8	-	-	-	-		
		12/4/57	1050	20.3	23.1	20.3	23.1	4.84	89.6	8.1	ebb		
		12/5/57	1235	17.5	24.0	17.5	24.6	5.06	89.7	7.95	ebb		
		12/18/57	1445	18.8	21.9	19.4	22.2	-	-	-	flood		
				1/27/58	-	20.6	20.1	20.3	20.4	-	-	7.65	low
				2/26/58	-	22.2	21.0	22.5	21.4	-	-	7.98	ebb
				3/26/58	1400	23.0	21.9	22.5	23.3	-	-	-	-
				4/24/58	-	29.4	21.5	29.5	21.7	-	-	-	-
				4/24/58	-	28.0	21.0	27.4	23.0	-	-	-	-
				5/5/58	-	-	-	29.5	30.2	-	-	8.15	-
				5/21/58	-	28.3	33.9	28.2	34.9	-	-	-	flood
				5/21/58	1835	27.6	35.3	27.6	35.6	-	-	-	flood
				5/21/58	-	32.1	26.4	32.4	28.7	-	-	-	-
				5/21/58	-	30.5	26.4	30.0	26.5	-	-	-	-
				5/30/58	1210	28.5	36.2	29.0	36.5	-	-	7.7	flood
				6/23/58	2300	30.6	19.0	-	-	-	-	-	high
				7/14/58	1530	30.4	35.1	-	-	-	-	-	high
				7/14/58	2330	29.3	14.7	29.2	14.7	-	-	-	ebb
				7/15/58	0530	29.0	15.5	29.0	15.5	-	-	-	high
				7/15/58	1345	31.0	17.0	31.0	16.6	-	-	-	ebb
				7/18/58	1400	32.2	16.2	32.3	16.4	-	-	-	ebb
				8/10/58	1400	28.7	31.8	28.7	31.8	-	-	-	-
				8/12/58	1900	27.9	16.0	28.0	25.0	-	-	-	-
				8/18/58	1300	33.0	15.7	32.5	30.7	-	-	-	-
				9/8/58	1530	32.4	18.6	31.2	32.5	-	-	-	low
				10/13/58	1840	27.2	18.4	-	-	-	-	-	ebb
				10/13/58	1930	27.0	18.2	-	-	-	-	-	ebb
				10/20/58	1700	-	-	25.5	16.2	-	-	-	ebb
				10/23/58	1505	26.0	17.2	25.3	31.4	-	-	-	ebb
				10/23/58	1535	26.0	17.3	25.3	31.5	-	-	-	ebb
				10/23/58	1710	26.0	15.8	26.0	17.7	-	-	-	ebb
		10/24/58	0940	24.7	15.1	24.8	14.6	-	-	-	low		
		11/10/58	1815	29.5	14.2	-	-	-	-	-	ebb		
		11/10/58	1930	29.0	14.4	-	-	-	-	-	ebb		
		11/24/58	1630	-	-	25.4	24.6	-	-	-	flood		

Station No.	Depth	Date	Time	S. Temp. C°	S. Salin. ppt.	B. Temp. C°	B. Salin. ppt.	O ₂ ML/L	O ₂ % Sat.	pH	Tide
BW IV											
(Contd.)											
		12/1/58	1200	24.0	15.7	24.5	15.9	4.58	85.1	7.9	ebb
		12/1/58	1415	25.0	15.5	25.0	15.5	4.70	88.7	8.1	ebb
		12/2/58	-	-	-	24.0	27.9	-	-	-	flood
		2/9/59	1930	26.2	31.9	-	-	-	-	-	flood
		2/18/59	0915	25.5	27.1	26.0	28.7	-	-	-	flood
		2/18/59	1020	26.0	27.5	26.0	28.4	-	-	-	flood
		2/18/59	1115	26.5	28.3	26.5	27.7	-	-	-	flood
		2/18/59	1225	26.5	28.7	27.0	28.5	-	-	-	flood
		4/6/59	1200	-	-	26.5	27.0	-	-	-	low
		4/6/59	1400	-	-	28.5	27.3	-	-	-	flood
		4/6/59	1600	-	-	27.0	29.0	-	-	-	flood
		4/6/59	1800	-	-	27.0	28.6	-	-	-	ebb
		4/6/59	2000	-	-	25.0	27.8	-	-	-	ebb
		4/6/59	2200	-	-	25.5	27.5	-	-	-	ebb
		4/6/59	2400	-	-	25.0	27.1	-	-	-	ebb
		4/7/59	0200	-	-	25.0	27.1	-	-	-	flood
		4/7/59	0400	-	-	25.0	27.8	-	-	-	flood
		4/7/59	0600	-	-	24.0	31.2	-	-	-	ebb
		4/7/59	0800	-	-	25.0	27.7	-	-	-	ebb
		4/7/59	1000	-	-	26.0	28.1	-	-	-	ebb
		4/8/59	1000	-	-	25.0	27.7	-	-	-	ebb
		4/13/59	1945	27.5	37.9	27.2	37.6	-	-	-	flood
		4/13/59	2250	27.0	30.1	26.4	30.1	-	-	-	ebb
		4/15/59	2120	20.3	29.2	20.5	29.5	-	-	-	flood
		5/14/59	0855	27.6	40.2	27.7	40.0	-	-	-	flood
		6/3/59	0810	30.0	36.6	29.5	37.6	-	-	-	low ebb
		6/3/59	1220	30.0	36.8	-	-	-	-	-	high
CB #1 3 ft. =											
		8/28/57	1620	28.4	34.3	28.3	35.1	-	-	-	ebb
		9/10/57	1230	-	-	31.6	37.8	-	-	7.95	ebb
		9/24/57	-	-	-	30.2	34.8	-	-	-	high
		10/8/57	0920	28.6	29.2	28.2	29.9	-	-	-	ebb
		10/9/57	1514	30.2	29.9	30.0	31.1	2.96	67.3	-	flood
		10/10/57	0940	28.1	28.9	27.7	29.0	2.65	57.5	7.7	ebb
		11/21/57	1110	25.6	25.0	25.6	24.7	4.17	85.3	7.75	ebb
		12/4/57	1220	21.0	24.0	20.5	23.5	-	-	-	-
		12/6/57	1015	16.0	23.9	16.1	24.5	4.95	85.6	8.0	flood
		3/25/58	1435	24.4	21.9	23.4	23.8	3.67	71.8	7.9	-
		4/10/58	1315	28.4	20.5	27.5	24.0	4.23	88.4	7.85	-
		5/6/58	0855	28.4	27.0	28.5	29.1	2.71	59.5	8.2	-
CB # 1C 3 ft.											
		8/29/57	1530	33.0	18.5	30.7	33.4	-	-	-	flood
		9/10/57	-	32.1	37.7	31.8	38.3	3.25	77.9	7.95	high
		9/24/57	-	30.7	34.4	30.6	34.7	-	-	-	ebb
		10/10/57	0950	28.1	29.5	28.2	29.5	2.71	59.6	7.78	ebb
		11/21/57	1130	26.3	25.1	26.0	25.2	2.74	56.6	7.7	ebb
		12/6/57	0955	16.0	23.7	16.3	24.5	4.50	78.0	7.9	flood

Station No.	Depth	Date	Time	S. Temp. C°	S. Salin. ppt.	B. Temp. C°	B. Salin. ppt.	O ₂ MI/L	O ₂ % Sat.	pH	Tide
CB #1C 3 ft. (Contd.)											
		3/25/58	1455	24.5	21.9	24.0	22.3	3.64	71.4	7.95	ebb
		4/10/58	1325	29.2	21.0	28.2	20.5	4.69	96.9	7.9	-
		4/22/58	0830	25.5	21.2	-	-	-	-	7.8	ebb
		4/23/58	0845	27.0	21.3	27.0	21.7	1.47	30.1	-	flood
		4/23/58	1310	30.0	22.6	30.5	22.2	2.80	60.7	-	-
		4/23/58	1630	31.0	22.3	31.0	23.1	2.70	59.3	-	flood
		4/23/58	2015	28.7	21.5	28.5	21.7	2.34	49.1	-	flood
		4/24/58	0010	-	-	26.0	21.9	1.92	38.9	-	ebb
		5/6/58	0840	27.6	25.6	27.9	25.6	3.46	73.5	8.17	flood
		5/22/58		(Diurnal station - see part II)							
		6/24/58	1625	32.4	14.7	32.0	16.4	3.21	68.4	8.1	ebb
		6/26/58	-	32.3	15.4	31.7	17.3	3.02	64.5	7.72	flood
CB #2 4 ft.											
		8/27/57	0800	-	-	31.0	36.8	-	-	-	flood
		8/28/57	1600	28.2	34.8	28.2	34.5	-	-	-	ebb
		9/10/57	1240	31.3	37.6	31.7	37.9	-	-	7.9	ebb
		9/24/57	-	31.0	33.9	30.8	33.7	-	-	-	-
		10/8/57	0925	28.1	29.6	28.3	31.0	-	-	-	ebb
		10/9/57	1520	30.0	29.9	29.3	30.6	3.19	71.7	-	flood
		10/10/57	1023	28.3	28.7	28.8	29.5	3.09	68.4	7.72	ebb
		11/11/57	1030	26.5	27.4	26.2	27.7	-	-	-	ebb
		11/21/57	1141	26.0	24.6	26.0	25.1	4.20	86.5	7.6	ebb
		12/4/57	1100	20.0	22.8	20.3	23.3	-	-	-	-
		12/5/57	1240	14.4	24.9	17.4	24.8	5.13	91.0	8.0	ebb
		12/6/57	1025	16.0	23.5	16.7	24.2	5.15	89.7	8.1	flood
		1/30/58	-	18.5	19.1	18.2	19.2	-	-	-	flood
		2/10/58	1515	17.0	19.6	16.8	19.6	-	-	-	ebb
		3/25/58	1530	23.7	21.9	23.5	23.7	3.58	69.9	7.9	-
		3/27/58	1740	22.2	20.7	22.0	20.6	-	-	-	-
		4/10/58	1525	29.0	20.6	27.5	26.7	-	-	-	-
		4/10/58	1300	28.2	20.0	27.5	26.7	4.23	90.0	7.85	flood
		4/22/58	0840	25.0	19.3	25.2	20.1	-	-	-	ebb
		5/5/58	-	-	-	28.9	31.7	-	-	8.15	-
		5/6/58	0905	27.9	26.4	27.5	32.0	3.68	81.1	-	-
		6/26/58	1215	31.1	17.3	30.8	17.2	2.98	62.9	7.70	flood
CB #3A 4 ft.											
		8/27/57	1000	-	-	31.3	38.8	-	-	-	high
		8/28/57	1510	28.2	35.9	28.0	35.0	-	-	-	ebb
		9/10/57	1250	31.5	38.0	31.8	38.4	-	-	7.9	low
		9/24/57	-	31.2	34.2	31.2	34.4	-	-	-	-
		10/8/57	0930	28.3	29.1	28.2	29.9	-	-	-	ebb
		10/9/57	1530	30.0	30.3	29.6	31.1	3.16	71.3	-	-
		10/10/57	1038	28.2	29.1	28.1	28.8	3.06	66.7	7.81	-
		11/11/57	1037	26.1	26.6	26.1	25.4	-	-	-	-
		11/21/57	1254	25.9	23.3	25.8	23.0	-	-	-	flood

Station No.	Depth	Date	Time	S. Temp. C°	S. Salin. ppt.	B. Temp. C°	B. Salin. ppt.	O ₂ ML/L	O ₂ % Sat.	pH	Tide
CB # 3A 4 ft.											
(Contd.)											
		12/4/57	1110	20.6	24.4	20.5	24.4	-	-	-	-
		12/5/57	1251	17.7	22.4	17.1	22.4	5.02	87.3	8.1	ebb
		12/6/57	1128	16.5	22.4	16.5	22.7	-	-	-	flood
		2/10/58	1522	17.0	18.6	-	-	-	-	-	ebb
		2/26/58	1530	22.1	19.8	22.2	19.8	4.40	82.4	8.0	ebb
		3/25/58	1555	23.5	21.6	23.0	22.0	4.01	77.1	-	-
		4/10/58	0842	27.4	21.0	27.3	22.0	-	-	-	ebb
		5/6/58	1000	28.2	23.6	28.0	28.3	3.14	68.0	-	-
		5/30/58	1220	29.5	25.9	29.0	26.7	-	-	7.75	-
CB #3C 4 ft.											
		8/27/57	-	-	-	30.6	39.1	3.37	72.5	-	-
		8/28/57	1425	28.5	36.9	28.4	36.5	-	-	-	high
		9/24/57	-	31.1	33.7	31.1	34.0	-	-	-	-
		11/21/57	1237	26.0	23.3	25.9	24.8	-	-	-	low
		12/6/57	1116	16.8	23.0	17.0	23.9	-	-	-	flood
		5/6/58	0940	27.8	24.2	27.8	25.0	3.98	84.3	8.2	ebb
		7/14/58	(Diurnal station - see part II)								
		7/16/58	1435	32.8	15.4	33.0	15.1	4.26	91.6	7.87	high
		7/17/58	0955	30.6	14.6	30.6	14.6	4.39	91.1	7.79	ebb
		7/17/58	1445	32.3	14.3	32.2	14.7	4.29	91.3	7.90	flood
		8/18/58	1420	34.0	25.9	34.0	25.9	5.21	122.2	8.07	ebb
		8/19/58	0340	30.4	14.6	31.0	26.5	3.48	78.0	7.90	ebb
		8/20/58	1000	32.6	15.3	33.5	25.2	3.70	85.5	7.9	ebb
		9/8/58	1700	32.1	16.3	31.8	26.5	-	-	-	-
		9/16/58	1320	-	-	30.4	21.5	-	-	-	ebb
		9/16/58	0940	30.0	19.8	30.0	19.8	4.17	88.4	8.05	ebb
		9/18/58	1305	31.4	16.5	31.6	17.8	4.25	91.0	8.09	ebb
		10/20/58	(Diurnal station - see part II)								
		10/22/58	1020	26.0	16.0	26.0	16.5	-	-	7.88	ebb
		10/23/58	1235	25.8	15.8	25.4	15.3	-	-	8.19	flood
		10/23/58	1509	-	-	27.2	15.9	-	-	-	ebb
		11/12/58	1110	26.7	15.9	27.1	17.1	-	-	-	ebb
		11/26/58	0940	26.2	13.9	26.0	16.9	3.68	71.8	7.8	ebb
		12/2/58	1035	24.5	17.9	24.5	17.9	-	-	-	ebb
		12/8/58	1325	25.6	15.9	26.2	20.3	3.12	62.8	7.8	-
		12/9/58	1010	25.8	17.1	26.1	23.6	3.34	68.5	7.76	ebb
		1/15/59	1250	18.0	18.1	-	-	-	-	-	-
		1/19/59	1223	16.0	20.3	-	-	-	-	-	-
		1/19/59	(Diurnal station - see part II)								
		1/21/59	0840	19.0	21.1	19.0	20.3	-	-	-	ebb
		1/22/59	1130	23.8	22.5	23.8	22.5	4.70	92.0	7.9	ebb
		2/17/59	0845	25.5	23.4	27.0	28.9	-	-	-	flood
		2/18/59	1030	26.0	25.5	26.0	26.0	-	-	-	flood
		2/20/59	1100	26.0	15.0	26.0	15.2	4.55	88.3	7.9	ebb
		3/20/59	0900	24.0	27.0	24.0	26.9	-	-	7.95	flood
		3/17/59	1155	26.0	26.7	26.0	28.1	4.12	86.7	8.0	flood
		4/6/59	(Diurnal station - see part II)								

Station No.	Depth	Date	Time	S. Temp. C°	S. Salin. ppt.	B. Temp. C°	B. Salin. ppt.	O2 ML/L	O2 % Sat.	pH	Tide
CB #3C											
(Contd.)		6/2/59	1245	30.0	36.4	30.0	36.2	-	-	-	-
		6/3/59	1230	31.0	35.7	31.0	35.8	-	-	-	-
		6/4/59	1015	30.5	35.0	31.0	36.9	3.37	79.3	8.35	-
		6/5/59	1320	31.5	33.9	31.5	34.7	-	-	-	-
CB #4 B	4 ft.	9/10/57	1225	31.4	37.9	31.5	37.6	-	-	7.9	-
		9/24/57	-	30.9	34.7	30.9	34.7	-	-	-	ebb
		10/8/57	0934	28.4	29.8	28.1	30.0	-	-	-	ebb
		10/9/57	1537	29.6	29.4	29.2	30.0	3.59	80.1	-	flood
		10/10/57	1200	28.7	28.8	28.6	29.0	3.22	70.8	7.75	ebb
		11/11/57	1042	26.1	23.3	26.0	24.3	-	-	-	-
		11/21/57	1330	26.4	23.5	26.1	24.0	-	-	7.65	flood
		12/4/57	1113	20.8	23.4	20.8	23.6	-	-	-	-
		12/5/57	1305	18.0	23.5	17.4	23.9	5.42	95.4	8.1	ebb
		12/6/57	1153	16.5	22.7	17.1	23.1	5.13	89.4	8.05	flood
		1/30/58	-	18.7	19.2	18.4	20.0	-	-	-	flood
		2/10/58	1528	16.8	18.5	-	-	-	-	-	ebb
		3/25/58	1630	23.0	20.6	22.8	21.0	-	-	-	-
		3/27/58	1730	22.5	19.8	22.5	19.8	-	-	-	-
		5/5/58	-	-	-	29.2	23.3	-	-	8.25	-
		5/6/58	1010	27.8	22.1	27.5	21.7	4.07	84.2	-	-
		5/30/58	1225	29.5	25.7	29.0	26.4	-	-	7.72	-
CB #5C	3.5 ft.	9/24/57	-	31.0	33.3	31.0	34.0	-	-	-	flood
		10/8/57	0940	28.4	29.4	28.2	30.0	-	-	-	ebb
		10/9/57	1545	30.0	29.9	29.7	29.8	3.38	76.0	-	-
		10/10/57	1230	30.1	29.8	30.6	30.4	2.46	56.2	7.85	ebb
		11/11/57	1050	26.1	22.4	26.1	22.6	-	-	-	-
		11/21/57	1405	25.8	24.9	25.8	26.8	3.81	79.0	7.67	flood
		12/4/57	1123	21.5	24.3	21.1	25.0	-	-	-	-
		12/5/57	1315	17.6	22.2	17.1	23.2	5.42	94.8	8.1	ebb
		12/6/57	1235	17.7	23.5	17.6	23.3	-	-	-	-
		2/10/58	1530	16.8	18.5	-	-	-	-	-	ebb
		2/26/58	1540	22.1	18.3	22.1	18.3	4.44	82.5	7.90	-
		3/25/58	1700	23.0	19.1	23.0	19.1	3.46	65.6	8.0	-
		3/27/58	1730	22.6	19.5	22.8	20.9	-	-	-	-
		4/10/58	1450	28.0	20.0	28.0	20.5	4.00	82.5	7.8	-
		4/10/58	-	27.6	19.0	27.5	19.0	-	-	-	-
		5/5/58	-	-	-	29.0	19.9	-	-	8.15	-
		5/6/58	1045	28.3	20.3	27.8	22.0	3.96	82.4	-	-
		5/30/58	1230	29.5	24.7	29.5	26.1	-	-	7.70	-
CB #5E	2 ft.	9/24/57	-	31.0	33.5	31.0	33.7	-	-	-	-
		10/10/57	1242	30.4	30.0	29.6	30.2	2.73	61.3	7.75	ebb
		11/21/57	1430	26.8	28.0	26.2	27.8	3.53	74.5	7.50	flood
		12/4/57	1200	21.7	24.6	21.9	24.6	-	-	-	flood

Station No.	Depth	Date	Time	S. Temp. C°	S. Salin. ppt.	B. Temp. C°	B. Salin. ppt.	O2 ML/L	O2 % Sat.	pH	Tide
CB #5E	2 ft.										
(Contd.)		12/6/57	1245	17.6	23.5	17.8	24.1	5.09	90.4	8.1	flood
		3/25/58	1715	23.6	19.1	23.5	19.5	3.75	71.6	8.1	-
		4/10/58	1505	28.5	20.3	28.5	20.3	4.36	90.6	7.9	-
		5/5/58	1455	-	-	29.4	20.2	-	-	8.1	flood
		5/6/58	1055	28.4	21.2	28.3	21.2	3.98	83.0	8.35	-
		5/9/58	0045	-	-	24.2	22.9	-	-	-	ebb
		6/26/58	1250	31.5	14.2	31.5	13.9	3.75	78.3	7.80	flood
		7/15/58	1420	31.8	11.9	31.5	12.3	4.29	88.8	7.92	-
		9/8/58	1650	32.0	12.0	32.5	12.6	-	-	-	-
		9/18/58	1330	32.8	15.4	33.2	17.4	4.02	88.0	8.02	-
		10/20/58	1600	26.5	15.2	27.0	25.5	-	-	-	flood
		10/23/58	1240	27.3	16.2	27.3	18.8	-	-	-	flood
		12/8/58	1340	26.4	15.3	26.3	15.5	4.82	94.1	7.9	-
		1/19/59									(Diurnal station - see part II)
		1/21/59	0845	19.0	17.3	19.5	17.6	-	-	-	ebb
		2/17/59	0830	26.0	22.0	26.0	22.1	-	-	-	-
		3/20/59	1210	24.0	21.8	24.5	22.0	-	-	8.05	-
WWB #I	4 ft.	8/29/57	1420	30.7	36.6	30.3	36.1	3.02	71.4	-	low
		9/11/57	1400	31.5	35.1	31.8	36.4	-	-	-	low
		9/12/57	1710	30.5	34.4	30.1	34.5	3.36	78.3	7.87	flood
		9/26/57	1100	29.5	28.2	29.9	31.1	-	-	-	ebb
		10/8/57	1000	28.2	26.3	28.2	27.4	3.40	73.4	7.7	ebb
		10/22/57	0930	24.5	23.5	24.5	23.7	3.56	71.2	7.9	ebb
		11/19/57	1630	27.5	17.6	27.1	18.4	4.00	80.3	7.76	flood
		12/3/57	0915	17.8	18.8	18.2	20.1	4.79	83.7	7.95	flood
		12/4/57	1137	20.6	17.7	20.8	18.1	-	-	-	-
		1/14/58	1653	20.0	16.7	-	-	-	-	-	-
		1/30/58	-	20.5	15.2	19.5	15.8	4.70	81.9	7.95	flood
		2/10/58	1550	17.0	16.1	-	-	-	-	-	ebb
		2/27/58	1110	23.2	18.7	23.1	19.0	4.08	77.4	8.0	ebb
		3/11/58	1130	25.0	16.3	24.7	16.0	4.17	79.8	8.0	ebb
		3/25/58	1730	22.5	16.7	22.0	17.5	-	-	-	-
		3/27/58	1720	22.5	16.2	22.0	16.3	-	-	-	flood
		4/8/58	0930	24.4	15.0	24.3	15.0	4.54	90.7	8.1	flood
		4/10/58	-	27.2	14.5	27.1	17.2	-	-	-	ebb
		4/22/58	0852	25.0	13.6	25.0	13.8	-	-	8.0	ebb
		5/6/58	1115	28.6	16.4	28.6	16.4	-	-	-	-
		5/9/58	1020	26.0	14.6	25.9	14.8	3.65	70.4	-	ebb
		5/30/58	1240	30.2	18.6	29.8	19.0	-	-	7.8	flood
		5/30/58	1535	30.0	18.0	-	-	-	-	-	-
		6/24/58	1030	30.5	11.1	30.0	13.2	-	-	-	-
		6/24/58	1830	31.3	9.5	32.0	13.8	-	-	7.95	ebb
		6/27/58	0845	30.5	9.6	30.3	14.0	3.02	62.3	7.80	ebb

Station No.	Depth	Date	Time	S. Temp. C°	S. Salin. ppt.	B. Temp. C°	B. Salin. ppt.	O ₂ ML/L	O ₂ % Sat.	pH	Tide
WWB #I 4 ft.											
(Contd)											
		7/14/58	1645	30.8	9.4	30.8	9.4	-	-	-	-
		7/16/58	1550	31.5	9.1	31.6	9.3	4.67	95.3	7.92	-
		7/17/58	1015	30.7	9.6	30.4	10.8	3.68	74.3	7.79	ebb
		7/17/58	1425	32.2	9.7	31.9	11.4	-	-	-	-
		8/10/58	1340	28.8	9.1	28.4	9.6	-	-	-	flood
		8/20/58	1020	32.0	9.3	32.8	10.9	4.55	93.9	8.2	flood
		8/18/19/58 (Diurnal station - see part II)									
		9/8/58	1550	31.5	9.2	31.8	11.8	-	-	-	-
		9/16/58	0950	28.9	9.4	29.5	9.8	4.25	84.2	8.18	-
		10/17/58	0645	24.2	8.2	-	-	-	-	-	-
		10/20/58	1630	26.2	8.1	26.0	8.5	-	-	-	-
		10/22/58	1035	26.0	8.2	26.0	8.7	-	-	8.10	-
		10/23/58	1340	25.8	7.6	26.0	7.7	-	-	8.15	flood
		11/12/58	1125	27.0	10.1	26.5	15.1	-	-	-	ebb
		11/13/58	0835	25.5	9.2	25.4	9.3	-	-	-	flood
		11/24/58 (Diurnal station - see part II)									
		11/26/58	1000	26.1	10.0	26.5	13.2	3.68	70.9	7.78	ebb
		11/26/58	1335	28.5	10.0	28.0	11.4	-	-	-	ebb
		12/1/58	1420	24.5	11.3	25.0	15.0	-	-	-	ebb
		12/8/58	1350	26.2	11.2	-	-	-	-	-	-
		12/9/58	1050	26.2	10.2	25.8	14.0	4.29	104.2	7.99	ebb
		1/15/59	1235	17.8	12.8	17.7	12.8	-	-	-	high
		1/19/59	1615	16.0	12.2	16.0	18.7	-	-	-	-
		1/21/59	0945	19.0	12.0	19.0	14.0	5.07	86.7	8.03	ebb
		1/22/59	1145	23.2	14.0	22.9	14.7	5.32	98.0	7.9	ebb
		2/16/59 (Diurnal station - see part II)									
		2/18/59	1045	26.5	16.2	26.5	18.7	-	-	-	flood
		2/20/59	1120	27.0	15.2	26.0	17.4	4.74	93.1	7.88	flood
		3/17/59	0920	25.0	18.5	26.0	20.1	5.04	100.1	8.25	flood
		3/20/59	1220	25.0	19.3	23.5	20.7	-	-	-	-
		4/8/59	1215	26.0	22.9	25.0	24.7	4.62	93.3	8.2	-
		5/14/59	0910	28.5	25.4	28.5	25.8	-	-	-	flood
		5/14/59	1313	30.0	25.6	29.4	27.9	-	-	-	-
		6/2/59	1230	30.0	26.4	30.0	28.8	-	-	-	-
		6/4/59	1040	31.0	25.1	31.5	31.6	3.50	77.8	8.5	flood
		6/5/59	1300	31.5	25.6	31.5	25.8	-	-	-	flood
WWB #IE 3 ft.											
		7/16/58	1630	33.2	7.6	32.8	8.2	4.30	88.7	7.9	-
		7/17/58	1410	32.8	5.8	32.8	7.7	3.81	78.1	7.80	-
		7/31/58	-	32.5	7.1	32.2	8.7	-	-	-	-
		8/11/58	1200	30.3	6.3	29.4	7.1	-	-	-	-
		10/17/58	-	26.3	7.7	-	-	-	-	-	-
		10/23/58	1400	25.8	6.9	26.2	7.6	-	-	7.65	-
		10/23/58	1430	26.3	7.0	-	-	-	-	7.53	-
		1/14/59	1115	16.5	9.4	16.0	10.0	-	-	-	-

Station No.	Depth	Date	Time	S. Temp. C°	S. Salin. ppt.	B. Temp. C°	B. Salin. ppt.	O ₂ Ml/L	O ₂ % Sat.	pH	Tide
WWB #IE 3 ft.											
(Contd.)		1/21/59	1010	20.0	9.7	20.0	9.9	5.31	90.4	8.01	ebb
		4/8/59	1100	26.0	17.2	26.0	16.0	4.08	86.2	8.0	-
		5/14/59	1325	30.0	25.0	29.7	25.0	-	-	-	-
		6/1/59	1210	-	-	30.0	18.5	-	-	-	-
		6/1/2/59									(Diurnal station - see part II)
WWB #II 5 ft.											
		8/29/57	1400	30.5	35.2	30.2	35.8	2.72	64.0	-	low
		9/12/57	1655	30.1	32.2	30.1	32.5	3.67	84.4	-	flood
		10/8/57	1010	28.0	25.2	28.0	26.0	3.55	75.7	7.9	ebb
		11/19/57	1614	26.6	17.2	26.7	17.2	-	-	-	flood
		12/3/57	0930	17.9	18.7	18.0	19.0	-	-	-	-
		12/17/57	0907	16.5	17.1	16.8	17.2	-	-	-	ebb
		1/14/58	1645	20.0	14.6	-	-	-	-	-	-
		1/30/58	-	20.9	13.2	18.7	14.0	-	-	-	flood
		2/27/58	1125	22.8	15.2	22.8	14.7	-	-	-	-
		3/11/58	1145	24.7	15.4	24.6	14.9	-	-	-	ebb
		3/26/58	1355	22.8	21.3	22.5	24.8	-	-	-	-
		4/8/58	0940	24.2	14.0	24.1	14.0	-	-	-	flood
WWB #III 4 ft.											
		8/29/57	1330	30.1	35.0	30.0	35.2	3.77	88.3	-	low
		9/12/57	1645	31.0	32.7	30.7	32.4	3.94	91.6	7.96	flood
		9/26/57	1115	29.9	27.9	29.7	27.7	-	-	-	ebb
		10/8/57	1020	28.2	25.5	28.0	25.9	3.76	81.2	7.7	ebb
		11/19/57	1600	26.7	16.6	26.8	17.1	4.73	94.0	7.85	flood
		12/3/57	0937	18.0	18.4	18.0	17.6	5.25	89.9	8.0	-
		12/17/57	0913	16.8	16.8	16.9	16.9	-	-	-	ebb
		1/14/58	1640	20.0	14.5	-	-	-	-	-	-
		1/30/58	-	20.5	13.2	19.0	13.4	4.67	79.5	7.92	flood
		2/27/58	1130	23.0	14.0	22.9	14.4	4.86	89.2	8.00	-
		3/11/58	1200	24.5	14.9	24.5	14.9	4.85	91.5	8.05	ebb
		3/26/58	1350	22.5	21.2	22.5	21.5	-	-	-	-
		4/8/58	0945	24.0	13.0	23.5	13.0	4.76	87.7	8.1	flood
		4/22/58	0915	25.6	13.1	25.0	12.9	-	-	8.0	-
		5/9/58	1030	25.8	14.8	25.3	14.8	3.72	71.2	-	ebb
		5/30/58	1250	30.0	18.6	29.0	19.1	-	-	7.81	flood
		5/30/58	1530	30.0	16.7	-	-	-	-	-	-
		6/27/58	0850	30.5	8.4	30.4	8.1	3.70	73.3	8.02	ebb
		7/17/58	1035	30.0	8.3	30.0	8.2	4.51	82.0	7.97	ebb
		9/8/58	1600	31.8	8.3	31.2	8.4	-	-	-	-
		10/17/58	0700	23.9	6.3	24.0	7.1	-	-	-	flood
		11/12/58	1130	26.5	9.1	26.0	8.9	-	-	-	ebb
		11/26/58	1010	26.5	8.9	26.5	9.6	4.80	91.0	8.10	ebb
		12/9/58	1100	25.8	9.7	25.3	9.5	5.14	95.5	8.30	ebb
		1/22/59	1155	23.0	11.4	22.8	11.5	5.38	97.0	8.15	ebb

Station No.	Depth	Date	Time	S. Temp. C°	S. Salin. opt.	B. Temp. C°	B. Salin. opt.	O ₂ ML/L	O ₂ % Sat.	pH	Tide
WVB #III (Contd.)	4 ft.	5/14/59	0920	28.7	24.9	-	-	-	-	-	-
WVB #IV	4 ft.	8/29/57	1300	29.9	33.4	30.0	33.6	3.79	87.7	-	low
		9/12/57	1625	31.3	29.4	31.0	29.0	3.86	87.9	-	flood
		9/26/57	1130	30.0	23.9	30.1	26.3	-	-	-	ebb
		10/8/57	1035	29.1	22.2	28.4	24.1	3.58	75.8	7.6	ebb
		11/19/57	1540	27.1	15.1	26.9	15.2	4.84	95.1	8.05	flood
		12/17/57	0922	17.0	15.8	17.3	15.9	-	-	-	ebb
		1/14/58	1632	20.4	14.0	-	-	-	-	-	-
		1/30/58	-	19.5	12.4	19.1	12.3	-	-	-	flood
		2/27/58	1145	23.2	12.8	23.2	12.8	-	-	8.15	-
		3/11/58	1210	24.4	13.4	24.4	13.4	-	-	-	ebb
		3/26/58	1345	22.6	20.3	22.5	20.3	-	-	-	-
		4/8/58	1000	24.0	12.5	24.0	12.6	-	-	8.15	-
		5/9/59	1040	26.0	13.1	25.7	13.1	-	-	-	ebb
WVB #V	4 ft.	8/29/57	1245	29.7	32.0	29.8	32.4	3.66	83.4	-	low
		9/12/57	1600	31.0	29.0	30.6	28.4	3.94	88.9	7.96	flood
		9/26/57	1135	30.4	26.0	30.1	25.9	-	-	-	ebb
		10/8/57	1050	29.3	22.7	29.0	24.0	4.17	89.3	7.80	ebb
		11/19/57	1526	27.0	14.7	26.7	15.1	4.94	96.9	7.90	flood
		12/3/57	0953	18.0	14.4	18.1	14.3	5.33	89.7	8.05	-
		12/17/57	0928	16.7	15.5	16.5	15.7	-	-	-	ebb
		1/12/58	1628	19.9	14.9	-	-	-	-	-	-
		1/30/58	-	19.8	12.2	18.5	12.6	5.35	89.9	8.10	flood
		3/11/58	1220	24.4	13.4	24.4	13.4	4.93	92.1	8.10	ebb
		3/26/58	1335	23.0	18.9	22.5	19.3	-	-	-	-
		4/8/58	1008	24.0	12.5	24.0	12.5	4.92	91.1	8.15	-
		4/22/58	0925	25.5	12.0	25.2	12.4	-	-	8.05	-
		5/9/58	1047	25.4	14.2	25.2	14.3	4.22	80.5	-	ebb
		5/30/58	1300	30.5	16.3	29.7	17.3	-	-	7.87	flood
		5/30/58	1520	30.0	15.9	-	-	-	-	-	-
		6/27/58	0905	30.5	6.6	30.5	6.6	3.81	74.7	8.10	ebb
		7/17/58	1050	30.5	5.6	30.4	5.4	4.70	92.2	8.05	-
		8/18/58	-	33.5	4.5	33.2	6.8	-	-	-	-
		8/20/58	1040	31.6	6.1	31.8	6.5	4.60	92.5	8.20	-
		9/8/58	1615	31.1	6.8	31.2	6.6	-	-	-	-
		9/16/58	0950	28.8	6.3	29.2	6.3	4.53	87.5	8.22	-
		10/17/58	0725	24.1	6.2	-	-	-	-	-	flood
		10/22/58	1055	26.0	7.5	26.0	7.5	-	-	8.05	flood
		11/12/58	1145	26.8	7.4	26.9	7.5	-	-	-	-
		11/26/58	1030	26.3	7.7	25.8	8.0	4.66	86.9	8.00	ebb
		12/9/58	1115	26.8	8.6	26.2	8.7	4.73	88.9	8.03	ebb

Station No.	Depth	Date	Time	S. Temp. °C	S. Salin. ppt.	B. Temp. °C	B. Salin. ppt.	O ₂ ML/L	O ₂ % Sat.	pH	Tide
WWB #V (Contd)											
		1/22/59	1205	22.7	10.2	22.6	10.3	5.20	92.7	8.12	-
		2/12/59	0830	25.0	12.4	25.0	12.4	-	-	-	ebb
		2/20/59	1135	27.0	14.1	27.0	15.0	4.85	95.5	8.20	flood
		3/17/59	1000	25.5	18.3	25.5	18.5	4.82	94.8	8.25	-
		4/10/59	1050	25.0	19.5	25.0	20.1	-	-	-	-
		5/14/59	0930	28.5	24.8	27.8	24.5	-	-	-	ebb
		6/4/59	1055	30.5	23.4	30.5	23.4	4.55	98.9	8.70	flood
WWB # VI 4 ft.											
		8/29/57	1225	29.0	32.5	28.9	33.2	3.96	89.8	-	low
		9/12/57	1545	31.2	30.5	31.2	29.0	4.37	99.8	-	flood
		9/26/57	1150	30.5	25.9	30.2	26.9	-	-	-	ebb
		10/8/57	1108	29.2	24.5	28.6	25.0	4.39	94.2	7.70	ebb
		11/19/57	1500	26.5	17.9	26.6	18.3	5.15	103.0	7.85	flood
		12/3/57	1010	17.7	16.7	18.3	16.6	5.28	90.4	8.05	-
		12/17/57	0938	16.3	17.3	16.5	17.4	-	-	8.20	ebb
		1/14/58	1610	19.1	17.6	-	-	-	-	-	flood
		1/30/58	-	21.1	12.0	18.6	13.6	5.52	93.4	8.10	high
		3/11/58	1235	24.4	15.9	24.5	16.1	-	-	-	ebb
		4/8/58	1020	23.9	14.5	24.0	15.0	4.65	87.5	8.15	-
		5/9/58	1100	25.9	16.5	26.0	17.2	-	-	-	ebb
WWB # VII 4 ft.											
		8/29/57	1200	29.0	34.0	29.1	33.3	4.03	91.6	-	low
		9/12/57	1520	30.5	30.7	30.8	30.4	4.96	114.0	-	flood
		9/26/57	1200	29.9	24.4	30.2	27.8	-	-	-	low
		10/8/57	1123	29.6	25.7	29.0	25.0	4.65	100.0	7.85	ebb
		11/19/57	1443	26.5	19.2	27.0	19.4	5.11	103.2	7.82	flood
		12/3/57	1020	18.0	15.4	18.3	14.8	5.33	90.3	8.15	-
		12/17/57	0947	16.0	17.4	15.1	17.6	-	-	8.20	ebb
		1/14/58	1602	20.0	19.1	-	-	-	-	-	flood
		1/30/58	-	21.1	13.6	18.8	15.2	-	-	-	ebb
		3/11/58	1245	24.4	17.5	24.3	17.2	5.04	96.5	8.00	ebb
		3/27/58	1315	22.2	18.6	21.8	18.4	-	-	-	flood
		3/27/58	1455	22.5	16.4	22.0	18.0	-	-	-	flood
		4/8/58	1034	24.1	16.5	24.1	16.5	4.85	92.0	8.20	-
		4/22/58	0945	25.0	16.1	24.7	16.2	-	-	8.10	-
		5/9/58	1115	25.8	19.9	25.3	19.9	4.45	87.6	-	ebb
		5/30/58	1315	29.5	18.5	29.0	18.3	-	-	7.96	flood
		6/27/58	0925	30.2	9.5	30.3	9.5	3.86	77.2	8.17	ebb
		7/17/58	1115	30.3	7.2	30.3	7.2	4.79	85.5	8.01	-
		8/20/58	1110	32.6	12.8	32.3	12.9	3.83	80.5	7.80	-
		8/20/58	1435	33.2	11.1	32.9	11.7	5.17	108.8	7.98	-
		9/16/58	1030	28.7	8.1	29.3	8.1	4.43	87.0	8.16	-
		10/17/58	0740	24.5	11.2	-	-	-	-	-	-
		10/22/58	1120	26.0	13.3	26.0	13.2	-	-	7.89	flood

Station No.	Depth	Date	Time	S. Temp. C°	S. Salin. ppt.	B. Temp. C°	B. Salin. ppt.	O ₂ Ml/L	O ₂ % Sat.	pH	Tide	
WWB #VII (Contd)		11/12/58	1200	27.2	10.5	26.6	10.3	-	-	-	ebb	
		11/26/58	1050	26.2	10.4	26.0	10.3	4.92	92.9	8.15	-	
		11/26/58	1155	27.0	10.1	27.0	9.9	5.06	97.0	8.10	-	
		12/9/58	1135	26.7	10.6	26.1	10.8	5.49	104.2	8.20	ebb	
		1/22/59	1220	21.5	13.7	21.4	14.0	6.10	109.0	8.21	-	
		2/20/59	1155	27.5	20.2	26.0	22.9	5.65	115.1	8.00	flood	
		2/20/59	1450	26.0	24.7	26.0	24.7	-	-	-	flood	
		3/17/59	1020	25.5	25.0	26.5	25.3	4.82	100.0	8.20	-	
		4/9/59	0745	-	-	25.0	28.9	-	-	-	-	
		4/9/59		(Diurnal station - see part II)								
		4.10/59	1030	25.0	24.4	25.0	24.7	-	-	-	-	
		5/14/59	0950	28.3	31.6	28.0	31.5	-	-	-	low	
		5/14/59	1155	30.0	25.6	29.4	27.9	-	-	-	flood	
		6/4/59	1120	30.5	27.3	30.5	27.3	4.80	107.9	8.92	flood	
		6/4/59	1415	31.0	30.5	31.0	30.5	5.67	130.3	9.45	flood	
	WWB # VIIIA (North 5 ft. River)		8/20/58	1335	33.1	5.8	33.1	7.7	4.90	102.0	8.51	ebb
		11/26/58	1135	26.3	7.3	26.3	7.3	4.57	85.4	7.85	-	
		2/20/59	1430	27.0	19.7	26.0	21.6	4.91	99.2	7.90	flood	
		5/14/59	1135	29.9	30.3	29.8	30.5	-	-	-	-	
		6/4/59	1345	31.5	26.0	31.5	26.0	4.30	96.6	9.10	flood	
WWB#VII E (Joe 7 ft. River)		8/20/58	1530	33.6	17.4	33.4	17.7	3.86	82.7	7.70	flood	
		11/26/58	1225	27.0	15.3	26.5	15.5	3.70	72.5	7.70	ebb	
		2/20/59	1515	26.0	30.2	26.0	30.7	4.78	102.2	7.65	flood	
		5/14/59	1205	29.8	32.7	29.8	33.0	-	-	-	-	
		6/4/59	1445	31.5	33.2	31.5	33.4	4.12	96.9	9.10	flood	
WWV #VIII 5 ft. (Clearwater Pass)		8/29/57	1135	29.1	30.9	29.4	31.5	4.25	96.2	-	low	
		9/12/57	1455	30.9	28.1	30.6	27.7	5.27	119.0	8.20	high	
		9/26/57	1215	30.6	26.9	30.6	27.6	-	-	-	low	
		10/8/57	1145	29.9	24.9	29.5	25.8	5.30	116.7	8.00	low	
		11/19/57	1420	27.9	21.5	26.9	21.2	5.05	103.1	7.70	flood	
		12/3/57	1040	18.0	13.0	18.6	13.0	5.67	95.6	8.15	ebb	
		12/17/57	0956	16.6	16.3	16.5	16.3	-	-	8.10	ebb	
		12/20/57	1324	20.1	21.9	20.4	22.0	-	-	-	-	

Station No.	Depth	Date	Time	S. Temp. C°	S. Salin. ppt.	B. Temp. C°	B. Salin. ppt.	O ₂ ML/L	O ₂ % Sat.	pH	Tide
WWB # VIII											
	5 ft.	1/14/58	1558	20.0	20.0	-	-	-	-	-	flood
(Clearwater		1/30/58	-	20.2	17.9	19.4	18.6	5.42	95.9	8.00	ebb
Pass)		3/11/58	1320	24.5	19.1	24.5	19.0	5.30	102.7	7.90	ebb
Contd.		4/8/58	1055	24.5	19.3	24.1	19.6	4.65	89.8	7.80	-
		5/9/58	1130	26.5	22.5	25.9	23.5	4.35	83.7	-	ebb
		5/30/58	1325	29.4	20.8	29.0	20.8	-	-	7.90	flood
		6/27/58	0935	30.0	7.4	29.9	7.3	-	-	-	ebb
		7/17/58	1125	30.6	5.9	30.5	6.6	-	-	-	flood
		10/17/58	0748	24.5	17.2	24.6	17.6	-	-	-	-
		10/22/58	1130	26.0	13.3	-	-	-	-	-	flood
		12/9/58	1155	26.7	14.1	26.5	14.8	4.10	80.2	7.83	flood
		1/22/59	1235	22.3	19.4	22.2	19.5	4.95	92.6	7.90	flood
		2/20/59	1215	27.0	26.8	26.0	28.3	3.92	82.5	7.80	flood
		6/4/59	1135	30.0	32.1	30.5	32.3	4.73	110.0	8.90	flood
WWB #IX 4 ft.											
		8/29/57	1110	29.0	31.2	29.2	32.0	3.77	85.1	-	ebb
		9/12/57	1445	30.5	22.7	30.5	24.6	5.15	113.2	8.10	high
		9/26/57	1222	30.7	28.1	30.4	28.8	-	-	-	ebb
		11/19/57	1345	26.6	22.2	27.2	22.6	4.06	83.9	7.60	flood
		12/3/57	1055	18.3	13.5	18.6	13.8	5.27	89.3	8.10	ebb
		12/17/57	1004	16.4	17.0	16.6	17.3	-	-	8.05	flood
		1/14/58	1550	19.4	22.3	-	-	-	-	-	flood
		1/30/58	-	20.0	19.2	19.1	19.8	-	-	-	ebb
		3/11/58	1330	24.5	21.6	24.5	21.0	-	-	-	ebb
		4/8/58	1105	24.5	19.5	24.7	20.0	-	-	-	-
		4/22/58	1010	26.0	16.7	25.2	19.2	-	-	7.90	-
		5/9/58	1140	26.2	24.4	25.8	24.6	4.85	99.5	-	ebb
		9/16/58	1050	29.2	12.9	29.4	12.3	3.92	78.8	7.83	ebb
		10/17/58	0753	24.5	20.5	-	-	-	-	-	-
		11/12/58	1215	26.7	13.6	26.7	13.6	-	-	-	ebb
		2/12/59	-	26.1	20.7	-	-	-	-	-	-
		5/4/59	1005	29.0	35.8	28.5	35.1	-	-	-	low
WWB # X 5 ft.											
(Cormorant		8/29/57	1050	29.1	32.9	28.2	32.0	2.86	63.7	-	ebb
Pass)		9/12/57	1430	30.9	27.6	30.8	26.5	4.23	94.6	7.95	flood
		9/26/57	1237	31.1	31.2	30.5	31.7	-	-	-	ebb
		10/8/57	1240	29.0	27.2	29.1	25.6	4.76	103.0	7.75	flood
		11/19/57	1320	26.6	25.8	27.0	25.7	3.72	78.2	7.50	flood
		12/3/57	1113	18.8	18.3	19.0	18.3	5.80	101.8	8.05	flood
		12/17/57	1011	16.4	20.6	16.9	21.0	-	-	8.00	flood
		1/14/58	1542	19.6	24.8	-	-	-	-	-	flood
		1/30/58	-	20.0	21.0	19.0	20.7	4.67	82.9	7.85	ebb
		3/11/58	1335	24.7	24.5	24.7	24.0	4.05	81.2	7.80	ebb

Station No.	Depth	Date	Time	S. Temp. C°	S. Salin. ppt.	B. Temp. C°	B. Salin. ppt.	O ₂ MI/L	O ₂ % Sat.	pH	Tide
WWB #X (Cormorant Pass) Contd.	5 ft.	4/8/58	1115	24.5	21.5	24.5	22.0	3.88	76.8	7.80	-
		5/9/58	1150	26.3	25.8	26.1	26.5	3.72	77.5	-	ebb
		5/30/58	1340	29.0	23.0	28.9	23.1	-	-	7.47	ebb
		6/27/58	0945	30.7	10.4	30.6	10.1	4.01	80.2	8.01	flood
WWB #XI (Oyster Bay) USFWS #DI	5 ft.	8/29/57	1030	29.6	36.7	29.1	36.4	2.74	63.7	-	ebb
		9/12/57	1410	31.2	30.6	30.2	30.2	4.32	98.2	7.85	flood
		9/26/57	1250	30.9	33.8	31.0	36.0	-	-	-	flood
		10/8/57	1310	28.4	31.0	28.9	30.0	3.09	68.7	7.50	flood
		11/19/57	1302	25.9	29.0	26.2	29.0	3.01	63.6	7.50	flood
		12/3/57	1130	19.3	20.8	20.0	20.9	4.56	82.8	7.90	flood
		12/17/57	1021	16.4	23.8	16.7	24.2	-	-	7.90	flood
		1/14/58	1535	19.4	26.2	-	-	-	-	-	flood
		1/30/58	-	19.6	23.2	19.6	24.6	4.85	89.3	7.82	ebb
		3/11/58	1355	25.0	26.9	25.0	28.7	4.27	88.7	7.75	ebb
		4/8/58	1127	24.8	24.0	24.9	24.0	4.04	81.2	7.75	-
		4/22/58	1025	25.0	24.7	25.2	24.8	-	-	7.80	-
		5/9/58	1205	26.8	27.8	26.3	28.2	3.81	80.0	-	ebb
		5/30/58	1355	29.0	25.0	28.5	26.6	-	-	7.47	ebb
		6/27/58	0950	31.0	14.9	30.7	15.2	3.47	71.5	7.78	flood
		7/17/58	1200	31.2	19.2	31.2	19.6	4.32	92.9	7.77	flood
		9/16/58	1110	29.7	17.5	30.2	17.5	3.59	75.4	7.68	ebb
		10/17/58	0808	25.0	25.0	25.0	26.0	-	-	-	ebb
		10/22/58	1150	26.0	26.4	26.0	26.3	-	-	7.60	flood
11/12/58	1240	27.1	20.7	26.9	21.6	-	-	-	ebb		
12/9/58	1220	26.8	23.7	26.0	23.9	4.32	88.4	7.68	flood		
1/22/59	1255	21.7	26.4	21.3	26.6	4.96	95.5	7.69	flood		
2/20/59	1240	26.5	33.5	26.5	33.5	4.38	96.3	7.70	flood		
5/14/59	1015	28.9	35.4	28.3	36.0	-	-	-	low		
6/4/59	1205	30.0	34.5	30.0	34.5	3.62	84.2	8.55	-		
WWB #XII (Little Shark R)	8 ft.	8/29/57	1005	28.2	36.6	29.0	38.2	2.72	64.0	-	ebb
		9/12/57	1345	30.2	34.9	30.7	35.0	2.19	51.7	7.65	flood
		9/26/57	1305	30.4	37.8	30.6	38.1	-	-	-	flood
		10/8/57	1330	28.3	35.9	28.8	36.0	3.25	74.9	7.50	flood
		11/19/57	1242	25.4	31.0	25.6	31.2	2.80	59.6	7.50	flood
		12/3/57	1150	19.5	25.0	19.5	25.2	4.43	81.9	7.85	flood
		12/17/57	1037	16.2	28.6	16.6	28.4	-	-	7.85	flood
		12/20/57	1055	18.9	28.3	19.3	28.7	-	-	-	flood
		1/14/58	1530	18.9	27.6	18.5	27.6	-	-	-	ebb
		1/30/58	-	19.0	27.8	19.6	28.2	4.36	82.3	7.72	flood
		3/11/58	1407	25.2	29.1	25.0	29.3	4.47	93.2	7.80	flood
		4/8/58	1148	24.9	25.0	25.0	25.0	4.05	82.0	7.80	flood
		4/22/58	1033	24.7	26.3	25.0	26.4	-	-	-	-
		5/9/58	1220	26.6	28.8	26.2	28.4	3.82	80.5	-	ebb

Station No.	Depth	Date	Time	S. Temp. C°	S. Salin. ppt.	B. Temp. C°	B. Salin. ppt.	O ₂ MI/L	O ₂ % Sat.	pH	Tide
WWB #XII (Little Shark R.)	8 ft.	5/30/58	1405	29.0	28.9	28.9	29.8	-	-	7.52	ebb
		6/27/58	1015	30.9	27.1	30.7	27.1	3.70	83.1	7.82	flood
		7/17/58	1215	30.7	25.6	30.7	25.9	3.26	72.6	7.70	flood
		8/20/58	1140	31.5	28.3	32.8	27.8	3.90	90.6	7.70	ebb
		9/16/17/58			(Diurnal station - see part II)						
		10/17/58	0815	25.0	26.7	24.9	26.8	-	-	-	ebb
		10/22/58	1205	26.0	27.6	26.0	28.1	-	-	7.62	flood
		11/12/58	1250	27.4	23.6	27.2	23.6	-	-	-	ebb
		12/9/10/58			(Diurnal station - see part II)						
		1/22/59	1310	19.8	30.6	20.5	31.1	4.96	97.0	7.78	flood
		2/20/59	1300	26.5	34.9	26.5	35.0	3.80	84.1	7.62	flood
		3/17/59			(Diurnal station - see part II)						
		5/14/59	1025	28.0	36.2	28.0	35.6	-	-	-	-
		6/4/59	1220	30.0	36.4	29.5	36.1	3.89	91.5	8.68	flood
WWB # XIII 11 ft.		9/12/57	1335	30.3	34.9	30.8	35.0	2.17	51.3	7.61	flood
		9/26/57	1314	30.2	37.8	30.2	38.2	-	-	-	flood
		10/8/57	1345	28.5	37.5	28.6	37.4	3.50	81.4	7.50	flood
		11/19/57	1230	25.7	31.1	26.3	31.2	2.94	63.2	7.50	flood
		12/3/57	1225	19.5	24.6	19.5	26.9	4.58	85.6	7.85	flood
		12/17/57	1045	16.5	30.0	16.5	30.5	-	-	7.90	flood
		12/20/57	1050	19.4	28.5	20.2	29.0	-	-	-	flood
		1/14/58	1519	18.6	28.5	18.4	28.4	-	-	-	flood
		1/30/58	-	19.0	28.6	19.9	29.3	-	-	-	ebb
		3/11/58	1420	25.2	29.7	25.0	29.7	-	-	-	flood
		4/8/58	1155	25.3	26.0	25.0	26.0	-	-	-	-
		5/9/58	1230	26.4	28.3	26.4	28.4	-	-	-	ebb
		6/27/58	1030	31.0	26.4	30.7	29.2	-	-	-	flood
	WWB #XIV (Ponce de Leon Bay)	11 ft.	9/12/57	1305	30.6	38.9	30.6	38.5	2.19	52.9	7.60
		9/26/57	1325	29.9	39.4	29.9	39.8	-	-	-	flood
		10/18/57	1400	28.4	38.2	28.4	38.2	3.19	74.4	7.55	flood
		11/19/57	1207	26.1	32.6	26.1	32.8	3.37	73.1	7.50	flood
		12/3/57	1215	19.5	27.1	19.7	27.6	4.23	79.7	7.87	flood
		12/17/57	1053	16.1	30.9	15.4	30.6	-	-	7.90	flood
		1/14/58	1514	18.9	30.4	18.4	29.9	-	-	-	flood
		1/30/58	-	18.4	29.6	18.6	29.6	3.71	69.3	7.80	ebb
		3/11/58	1430	25.0	30.3	25.0	31.0	3.88	81.5	7.65	flood
		4/8/58	-	25.3	26.5	25.2	26.5	2.95	60.5	7.60	-
		4/22/58	1040	24.5	27.1	24.2	27.3	-	-	-	ebb
		5/9/58	1240	26.5	28.3	26.0	28.8	3.22	67.8	-	ebb
		5/30/58	1420	29.0	30.3	29.0	30.5	-	-	7.57	ebb
		6/27/58	1037	31.2	28.6	31.0	31.2	4.25	98.8	7.91	flood
	7/17/58	1230	30.4	31.4	30.6	31.3	4.07	93.6	7.82	flood	
	10/17/59	0842	25.0	27.0	25.0	27.5	-	-	-	ebb	
	5/14/59	1035	27.5	36.2	27.3	36.4	-	-	-	-	

Part II: Diurnal observations of the hydrography at several representative stations in the study area, covering the period May, 1958 through June, 1959.

Station No.	Date	Time	S. Temp. C°	S. Salin. ppt.	B. Temp. C°	B. Salin. ppt.	O ₂ ML/L	O ₂ % Sat.	pH	Tide
CB 1c	5/22-23/58	1220	28.8	25.6	30.0	27.8	4.95	109.0	8.47	ebb
		1420	30.1	25.3	30.3	27.4	6.21	138.0	8.60	flood
		1620	30.5	25.4	30.1	27.5	6.90	153.0	8.65	flood
		1820	29.7	26.2	29.9	27.4	5.40	119.7	8.10	flood
		2020	28.3	26.4	29.2	27.8	5.60	123.0	8.10	ebb
		2220	28.0	26.2	28.3	26.2	5.20	119.0	8.10	ebb
		0020	27.5	26.2	27.6	26.2	4.17	88.6	8.00	ebb
		0220	29.0	26.9	30.0	28.8	4.36	97.9	7.60	low
		0420	28.0	26.9	29.4	28.5	3.36	74.2	7.90	flood
		0620	26.2	25.1	26.5	25.1	3.34	69.2	7.93	flood
		0820	28.0	25.2	28.0	25.8	3.77	80.5	7.93	ebb
		1020	28.1	25.2	28.3	26.0	3.94	84.2	8.07	ebb
CB 2c	5/22-23/58	1220	28.7	25.6	29.3	26.3	3.60	78.5	8.40	ebb
		1420	29.2	24.7	29.5	29.0	5.15	114.2	8.40	flood
		1620	29.5	25.0	29.6	26.4	4.70	98.5	8.45	flood
		1820	29.3	25.2	29.5	25.9	4.82	106.0	8.10	flood
		2020	28.0	24.4	28.7	27.8	4.50	98.0	8.02	ebb
		2220	27.3	20.0	28.3	29.0	3.69	80.5	8.02	ebb
		0020	26.5	22.8	27.7	31.1	2.71	60.2	7.95	ebb
		0220	28.0	25.8	28.6	26.4	3.82	82.4	7.65	low
		0420	27.7	25.1	27.8	25.6	3.76	79.6	7.75	flood
		0620	26.5	24.4	27.0	26.5	3.53	74.5	7.96	flood
		0820	27.3	24.7	28.2	28.7	3.45	75.2	7.93	ebb
		1020	27.8	25.3	28.2	25.8	4.37	93.5	8.10	ebb
CB 3c	7/14-15/58	1510	31.4	14.1	31.4	13.8	4.65	97.7	8.40	-
		1710	31.5	14.1	31.6	14.1	4.26	89.7	8.43	ebb
		1910	31.0	14.4	31.0	14.5	4.24	88.3	8.37	ebb
		2140	30.1	12.2	29.9	13.2	4.44	90.2	8.37	ebb
		2315	29.9	13.2	29.7	14.5	3.90	79.8	7.85	low
		0110	29.4	12.1	29.2	13.8	3.96	80.0	7.92	flood
		0315	29.1	12.5	29.0	13.5	3.94	79.6	8.45	flood
		0520	28.8	12.9	28.8	13.6	4.13	83.3	8.40	high
		0750	29.4	13.1	29.5	14.7	3.45	70.4	8.35	ebb
		0915	29.8	13.9	29.6	13.9	3.93	79.7	7.80	ebb
		1100	30.5	14.5	30.6	14.4	4.17	86.2	7.90	ebb
		1325	31.3	14.8	31.8	14.5	4.51	94.9	7.95	-
CB 3c	10/20-21/58	1230	26.1	15.6	25.6	18.1	4.51	88.5	7.89	high
		1430	26.4	15.9	26.5	17.7	4.66	92.4	8.10	ebb
		1630	26.0	16.0	25.8	17.0	4.73	92.3	7.99	ebb
		1830	24.2	15.7	24.2	15.7	4.65	88.0	8.00	-
		2030	24.9	16.0	24.5	15.7	4.55	86.3	7.96	-

Station No.	Date	Time	S. Temp. C°	S. Salin. ppt.	B. Temp. C°	B. Salin. ppt.	O ₂ ML/L	O ₂ % Sat.	pH	Tide
CB 3c (Contd.)	10/20-21/58	2230	24.6	15.0	24.0	15.6	4.51	85.0	7.93	-
		0030	24.0	15.6	24.0	15.6	4.47	82.8	7.90	-
		0230	24.0	15.6	24.4	16.3	4.47	85.1	7.88	ebb
		0430	23.5	15.4	23.0	15.8	4.27	79.4	7.88	ebb
		0630	23.5	15.4	23.0	15.8	4.37	81.1	7.90	low
		0830	23.8	15.8	23.2	15.9	4.24	79.0	7.84	flood
		1030	24.5	15.7	24.2	16.0	4.61	87.5	7.90	flood
CB 3c	1/19-20/59	1400	17.0	19.7	19.0	19.1	5.66	99.7	8.00	low
		1600	17.0	19.3	17.0	19.9	5.78	98.6	8.01	flood
		1800	16.5	19.6	17.0	19.4	5.80	98.6	7.97	flood
		2000	16.0	18.9	16.0	18.9	5.87	97.7	8.02	flood
		2200	16.0	19.2	16.0	18.7	5.64	93.5	8.00	high
		2400	16.0	18.7	16.0	19.5	5.46	91.4	8.00	high
		0200	16.0	18.7	16.0	19.5	5.50	92.0	8.00	ebb
		0400	16.0	19.2	16.0	19.2	5.38	89.5	7.97	ebb
		0600	16.0	19.2	16.0	19.5	5.40	90.2	7.97	ebb
		0800	16.0	19.6	16.0	23.0	4.47	76.5	7.80	ebb
		1000	16.5	19.8	17.0	20.7	5.45	93.1	8.04	low
		1200	17.5	19.6	18.0	19.8	5.68	98.7	8.05	low
CB 3c	5/6-7/59	1200	26.0	27.0	26.0	27.0	4.37	91.0	8.05	low
		1400	28.0	27.3	27.0	26.8	4.76	100.8	8.05	flood
		1600	27.0	26.8	27.0	26.8	4.68	99.3	8.05	flood
		1800	27.0	27.2	26.5	27.0	4.70	98.7	8.05	ebb
		2000	26.0	27.1	26.0	27.1	4.57	95.6	8.00	ebb
		2200	25.5	26.9	25.0	26.7	4.58	94.1	8.00	ebb
		2400	25.0	27.1	25.0	27.1	4.33	89.0	8.00	ebb
		0200	24.5	26.9	24.5	26.9	4.32	87.9	8.00	flood
		0400	24.5	27.1	24.0	26.9	4.02	81.3	8.00	flood
		0600	24.0	26.9	24.0	26.9	4.06	82.0	8.00	high
		0800	24.5	27.3	24.5	27.1	4.14	84.3	8.00	ebb
1000	26.0	27.5	27.0	27.7	4.43	94.2	8.00	ebb		
CB 5e	1/19-20/59	1400	16.0	18.4	17.0	18.7	5.91	100.0	8.01	low
		1600	17.0	18.6	17.0	20.5	5.95	102.0	8.06	flood
		1800	16.5	18.4	16.5	18.4	5.90	98.9	8.08	flood
		2000	16.5	18.4	16.5	18.4	5.82	97.5	8.06	flood
		2200	16.0	17.6	16.0	18.4	5.57	92.6	8.13	high
		2400	16.0	17.7	16.0	18.4	5.68	94.2	8.10	high
		0200	16.0	18.3	15.5	18.2	5.60	91.7	8.00	ebb
		0400	15.0	18.1	15.0	18.1	5.65	91.7	8.16	ebb
		0600	16.0	18.3	16.0	18.4	5.50	91.2	8.02	ebb
		0800	16.0	19.1	16.0	18.7	5.67	94.6	8.05	ebb
		1000	16.5	18.4	17.0	18.6	5.66	96.0	8.10	low
		1200	18.0	18.2	18.0	18.8	5.75	98.2	8.16	low

Station No.	Date	Time	S. Temp. C°	S. Salin. ppt.	B. Temp. C°	B. Salin. ppt.	O ₂ ML/L	O ₂ % Sat.	pH	Tide	
WWB IE	6/1-2/59	1400	31.0	23.1	30.2	22.3	4.13	90.8	8.40	ebb	
		1600	31.0	22.4	30.0	22.8	5.55	120.7	8.53	ebb	
		1800	30.0	22.2	30.0	22.8	4.19	90.1	8.40	ebb	
		2030	29.5	19.5	29.5	23.2	3.25	69.9	8.37	ebb	
		2230	29.0	15.4	29.5	22.8	4.11	87.4	8.46	low	
		0230	28.0	20.3	29.0	23.3	3.61	76.8	8.28	flood	
		0400	27.0	19.9	28.0	22.3	3.52	73.3	8.40	flood	
		0600	27.5	19.1	28.5	22.3	3.57	76.2	8.50	ebb	
		0830	29.0	19.2	29.0	21.9	2.97	62.5	8.30	ebb	
		1030	29.5	20.3	29.0	21.0	3.57	75.2	8.45	flood	
		1200	31.0	18.1	30.0	21.6	3.81	81.6	8.40	flood	
		WWBI	8/18-19/58	1230	32.9	9.5	32.9	14.8	3.41	72.6	8.00
1435	33.2			9.7	33.5	14.6	4.01	86.5	8.09	ebb	
1635	33.6			9.8	33.5	10.1	4.34	91.4	8.12	flood	
1835	32.2			9.4	31.8	10.4	4.60	94.4	8.20	flood	
2045	31.8			9.5	31.8	10.4	4.49	92.0	8.20	flood	
2230	31.8			9.1	31.2	10.2	4.07	83.0	8.20	ebb	
0045	31.5			8.7	31.4	15.5	3.67	77.2	8.02	ebb	
0235	31.2			10.0	30.9	16.3	3.72	78.1	7.98	ebb	
0435	30.6			8.7	30.2	9.8	4.22	84.5	8.19	ebb	
0645	31.2			8.7	31.1	9.6	4.55	92.5	8.18	flood	
0835	31.7			10.0	32.6	10.8	4.38	91.3	8.15	flood	
1055	32.1			9.4	32.1	9.2	4.57	93.8	8.22	flood	
WWBI	11/24/25/58			1400	25.5	9.9	26.0	10.7	4.50	79.8	8.10
		1600	25.6	9.6	26.0	10.3	4.77	84.6	8.16	flood	
		1800	25.0	9.8	25.1	10.0	4.88	85.1	8.15	ebb	
		2000	25.1	10.7	25.2	11.8	4.07	71.4	8.00	ebb	
		2200	25.0	10.1	25.5	14.7	3.80	68.1	7.88	ebb	
		2400	25.0	10.2	25.3	14.4	3.61	64.4	7.85	ebb	
		0200	24.6	9.7	24.5	9.8	5.22	89.5	8.13	flood	
		0400									
		0600									
		0800	25.0	9.4	25.0	13.7	3.74	66.2	7.85	ebb	
		1000	25.8	9.7	26.0	13.5	4.07	73.1	7.85	ebb	
		1200	26.4	10.9	26.5	13.1	4.18	75.4	8.05	ebb	
		WWB-I	2/16/17/59	1400	27.0	15.3	27.0	17.3	4.43	88.4	8.00
1600	28.0			15.1	28.5	18.9	4.31	89.0	7.99	ebb	
1800	27.0			15.0	27.0	17.4	4.78	97.3	7.99	low	
2000	27.0			15.2	26.0	14.9	4.50	87.3	8.00	flood	
2200	26.0			14.8	26.5	15.1	5.03	98.8	8.05	flood	
2400	26.0			15.0	25.5	15.0	4.94	95.0	8.05	high	
0200	26.0			15.0	25.5	14.8	4.78	91.8	8.00	ebb	
0400	-			-	24.5	15.0	4.31	81.8	8.00	ebb	
0600	25.0			15.2	24.5	21.8	4.46	88.0	7.98	ebb	
0800	27.0			16.0	26.0	21.6	4.39	78.2	7.95	ebb	

Station No.	Date	Time	S. Temp. C°	S. Salin ppt.	B. Temp. C°	B. Salin ppt.	O ₂ ML/L	O ₂ % Sat.	pH	Tide
WWB-I (Contd.)	2/16-17/59	1000	27.0	15.8	26.5	21.1	4.63	94.2	8.00	ebb
		1200	27.5	16.2	27.0	21.4	5.10	104.4	7.99	flood
WWB-VII	4/9-10/59	1200	27.0	25.1	26.5	25.2	5.49	114.2	8.20	ebb
		1400	26.5	25.8	26.5	25.8	5.86	122.3	8.20	flood
		1600	27.0	26.4	27.0	26.4	6.26	132.0	8.30	-
		1800	26.0	26.4	26.0	26.3	6.31	130.9	8.20	-
		2000	26.0	26.3	26.0	26.3	5.77	119.5	8.20	-
		2200	26.0	26.4	26.0	26.4	5.12	106.1	8.20	-
		2400	25.0	25.1	25.0	25.1	4.52	91.9	8.20	-
		0200	25.0	25.6	25.0	25.5	4.42	90.0	8.20	-
		0400	24.5	26.0	24.5	26.0	4.22	85.5	8.15	-
		0600	24.0	26.3	24.0	26.3	4.11	82.7	8.10	-
		0800	24.0	26.1	24.0	26.3	4.20	84.5	8.10	-
		1000	25.0	25.9	25.0	26.0	4.48	91.4	8.10	-
		WWB-XII	9/16-17/58	1130	29.8	19.9	30.6	20.2	3.67	78.5
1330	30.8			18.4	31.2	18.2	3.94	84.2	7.70	low
1530	30.8			22.3	30.9	22.4	3.83	83.5	7.69	flood
1730	29.9			26.3	29.7	26.2	4.23	93.0	7.80	flood
1930	28.8			23.7	29.1	26.5	4.28	93.1	7.88	ebb
2130	28.9			22.4	28.4	22.7	3.81	80.6	7.77	ebb
2330	28.0			18.8	28.0	19.2	3.49	71.5	7.80	ebb
0130	28.0			22.4	28.3	23.4	3.49	73.7	7.70	flood
0330	27.8			24.3	28.3	24.5	3.64	77.5	7.82	flood
0530	28.2			28.2	27.6	28.0	4.35	93.5	7.97	flood
0730	29.0			27.7	29.0	27.9	4.15	91.3	7.96	ebb
0930	29.7	25.8	30.4	26.3	3.78	83.9	7.83	ebb		
WWB-XII	12/9-10/58	1230	25.7	26.7	25.4	28.2	3.76	78.4	7.72	flood
		1430	25.8	27.2	25.4	28.4	3.93	82.1	7.63	high
		1630	25.9	26.8	25.2	27.3	3.79	78.2	7.61	ebb
		1830	25.0	26.5	24.8	26.5	3.87	79.0	7.70	ebb
		2030	24.6	25.4	24.7	25.6	3.75	75.9	7.60	ebb
		2230	24.3	26.5	24.4	26.6	3.80	77.2	7.65	flood
		0030	24.0	28.9	24.0	29.1	3.95	81.0	7.69	flood
		0230	23.8	27.7	23.6	29.5	4.10	83.5	7.74	flood
		0430	23.8	27.7	23.8	27.8	3.68	74.7	7.72	ebb
		0630	23.9	27.7	23.8	27.7	3.62	73.4	7.68	ebb
		0830	24.5	25.5	24.5	25.7	3.75	75.7	7.65	ebb
		1030	25.3	24.7	25.2	25.0	3.75	76.3	7.62	low
		WWB-XII	3/17-18/59	1200	24.0	33.0	24.0	34.0	4.29	90.6
1400	24.5			32.9	26.0	32.8	4.31	93.5	7.80	ebb
1600	24.5			32.6	24.5	32.6	4.29	90.7	7.60	flood
1800	25.0			33.6	24.0	33.2	4.44	93.5	7.70	flood
2000	23.5			33.8	24.0	33.8	4.69	99.0	7.80	flood
2200	23.5			33.7	23.5	34.0	4.59	96.4	7.75	ebb

Station No.	Date	Time	S. Temp. C°	S. Salin ppt.	B. Temp. C°	B. Salin ppt.	O ₂ ML/L	O ₂ % Sat.	pH	Tide
WWB-XII 3/17-18/59										
Contd.										
		2400	23.5	32.6	23.5	33.0	3.98	83.0	7.75	ebb
		0200	24.0	31.1	23.5	31.8	4.04	83.7	7.70	ebb
		0400	24.0	32.0	23.5	31.8	4.25	86.7	7.75	ebb
		0600	24.0	30.9	22.0	31.8	4.16	84.0	7.80	flood

Part III: Summary of climatological data from Cape Sable, Everglades National Park, during the period July, 1957 through June, 1959.

Year	Month	Average Temp. F°	Maximum Temp. F°	Minimum Temp. F°	Rainfall in inches
1957	July	80.9	93.0	71.0	9.36
	Aug.	82.4	94.0	70.0	8.39
	Sept.	81.9	93.0	71.0	6.76
	Oct.	76.0	92.0	51.0	4.97
	Nov.	74.7	83.4	68.3	0.88
	Dec.	66.0	82.0	37.0	1.76
1958	Jan.	62.0	79.0	38.0	5.72
	Feb.	59.7	82.0	37.0	1.55
	Mar.	70.0	85.0	41.0	8.05
	Apr.	73.8	89.0	57.0	0.82
	May	77.4	89.0	55.0	10.10
	June	80.6	91.0	71.0	15.49
	July	82.7	92.0	71.0	4.90
	Aug.	83.6	99.0	71.0	5.56
	Sept.	81.9	92.0	70.0	-
	Oct.	76.6	90.0	56.0	4.54
	Nov.	75.8	86.0	58.0	0.88
	Dec.	69.1	85.0	46.0	4.08
1959	Jan.	65.9	82.0	39.0	0.62
	Feb.	72.8	84.0	57.0	2.07
	Mar.	70.4	84.0	44.0	3.23
	Apr.	74.8	87.0	54.0	0.41
	May	77.1	89.0	58.0	6.86
	June	79.7	93.0	69.0	8.87

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