

DENSITY OF SEA WATER
AT TIDE STATIONS
ATLANTIC COAST
NORTH AND SOUTH AMERICA

C&GS PUBLICATION 31-2
FIFTH EDITION
(WITH DATA THROUGH 1956)

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
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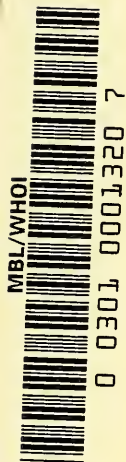
U. S. DEPARTMENT OF COMMERCE
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Contents

	Page
Introduction-----	1
Index map-----	2
List of stations-----	4
Table 1. Density of sea water - monthly and yearly means and extremes-----	6
Mean salinity curves-----	68
Table 2. Corresponding densities and salinities----	71
Sea water density at various temperatures-----	72

Introduction

The summaries of sea water densities presented in this publication are based on observations made in Atlantic harbor and coastal waters through the year 1956. The densities were observed primarily at tide stations which, in the United States, were maintained by the Coast and Geodetic Survey, often with the cooperation of other organizations. Final results for places in Venezuela were supplied by the Ministerio de Obras Publicas, Estados Unidos de Venezuela. For other countries, the Coast and Geodetic Survey derived the data from observations made by organizations in the countries concerned. In Latin America the observations were obtained through the cooperation of the Inter American Geodetic Survey.

Table 1 presents monthly means and annual mean and extremes for each year of observations. Maximum and minimum densities are shown for each year in which observations were made, whether or not the observations covered the whole year. In all cases the yearly extremes are from the months of the year for which means are given. If they are from an incomplete year, they are followed by an asterisk.

For each station at which the series of observations covered two or more years, there are given also the following monthly values for the series: the mean of the monthly means together with its corresponding salinity, the maximum density observed, the mean of the monthly maxima, the mean of the monthly minima, and minimum observed.

Following the table of densities are graphs of monthly mean salinities showing the seasonal variations for many places listed in Table 1.

The observations are made by drawing a sample of water from near the surface and observing its density by means of a hydrometer. They are usually made once each weekday at whatever time the observer attends the tide gage. It may be assumed that in the course of a month or a year the distribution of observations is fairly uniform over all phases of the tide. At some stations situated within or near the entrance of an estuary, the density varies with the stage of the tide or with the direction of the tidal current.

The densities in Table 1 are given with respect to the density of pure water at a temperature of 4°C (39.2°F) as unity. The actual density of the water may vary from a little less than unity for fresh water at a temperature other than 4°C to approximately 1.0310 for the heaviest sea water. Since the density of sea water, as observed, depends not only upon the amount of soluble matter contained in a unit volume but also upon the temperature of the water at the time the reading was made, it is necessary to reduce the observed densities to some standard temperature in order that they may be comparable. In this publication the observed densities have been reduced to a standard temperature of 15°C (59°F). The density of pure water free from air at a temperature of 15°C is 0.9991.

The salinity of sea water, denoted by the symbol σ_{t} , is defined as the number of grams of salts contained in 1000 grams of sea water. Salinity can be determined by several different methods, one of the simplest being based upon the density of the water as obtained from the use of the hydrometer. Table 2 gives the salinity corresponding to different values of density at the standard temperature of 59°F . (15°C .) to which all densities in this publication are referred.

For some practical uses of density data, it is more important to know the density at the temperature apt to be encountered than at the standard temperature. The graph, Sea Water Density at Various Temperatures, provides for converting density at 59°F (15°C) to density at other temperatures.

List of Stations

Station	Lat.	Long.	Page
	o '	o '	
Amuay, Venezuela-----	11 45N.	70 13W.	59
Annapolis, Md.-----	38 59N.	76 29W.	29,69
Asbury Park, N. J.-----	40 13N.	74 00W.	19
Ashley River, Charleston, S. C.-----	32 50N.	79 58W.	34
Atlantic City, N. J.-----	39 21N.	74 25W.	19,68
Baltimore, Md.-----	39 16N.	76 35W.	29,69
Barahona, Dominican Republic-----	18 12N.	71 05W.	56
Bar Harbor, Me.-----	44 23N.	68 12W.	7,68
Battery, The, New York, N. Y.-----	40 42N.	74 01W.	15,68
Belém, Brazil-----	1 27S.	48 30W.	62,70
Bermuda (Ferry Reach, St. Georges Island)-----	32 22N.	64 42W.	52,70
Boston, Mass.-----	42 21N.	71 03W.	10,68
Brazosport, Freeport Harbor, Tex.-----	28 57N.	95 19W.	46
Breakwater Harbor, Del.-----	38 47N.	75 05W.	21,68
Cainhoy, Wando River, S. C.-----	32 55N.	79 50W.	34
Cambridge, Md.-----	38 34N.	76 04W.	28,69
Canavieiras, Brazil-----	15 41S.	38 59W.	65
Canova Beach, Fla.-----	28 08N.	80 35W.	38,69
Cape Charles (town), Va.-----	37 16N.	76 01W.	23
Cape Cod Canal (east entrance), Mass.-----	41 46N.	70 30W.	11
Cape Cod Canal (west entrance), Mass.-----	41 44N.	70 37W.	12
Carenero, Venezuela-----	10 32N.	66 07W.	60
Cartagena, Colombia-----	10 24N.	75 33W.	59,70
Carúpano, Venezuela-----	10 40N.	63 15W.	62
Casilda, Cuba-----	21 45N.	79 59W.	54
Cedar Keys, Fla.-----	29 08N.	83 02W.	41,69
Charleston (Customhouse Wharf), S. C.-----	32 47N.	79 55W.	32,33,69
Charleston (Ashley River), S. C.-----	32 50N.	79 58W.	34
Ciudad Trujillo, Dominican Republic-----	18 28N.	69 53W.	56
Coatzacoalcos (Puerto Mexico), Mexico-----	18 09N.	94 25W.	48,70
Colombo, Isla de Pinos, Cuba-----	21 54N.	82 45W.	55
Cristobal, Canal Zone-----	9 21N.	79 55W.	51,70
Cumaná, Venezuela-----	10 28N.	64 11W.	61,70
Daytona Beach (Halifax River), Fla.-----	29 13N.	81 01W.	38
Daytona Beach (ocean), Fla.-----	29 14N.	81 00W.	37,69
Diamond Shoal Lightship-----	35 05N.	75 20W.	31,69
Eastport, Me.-----	44 54N.	66 59W.	6,68
Eugene Island, La.-----	29 22N.	91 23W.	44,70
Fernandina Beach, Fla.-----	30 40N.	81 28W.	35,69
Fortaleza (Mucuripe), Brazil-----	3 43S.	38 29W.	63,70
Fort Hamilton, New York, N. Y.-----	40 37N.	74 02W.	17
Fort Pulaski, Savannah River, Ga.-----	32 02N.	80 54W.	34,69
Galveston, Tex.-----	29 19N.	94 48W.	45,70
Gibara, Cuba-----	21 07N.	76 07W.	53
Gloucester Point, Va.-----	37 15N.	76 30W.	26
Grand Isle, 8 miles SE. of, La.-----	29 10N.	89 55W.	44,69
Guantánamo Bay, Cuba-----	19 54N.	75 09W.	54,70
Habana, Cuba-----	23 09N.	82 20W.	52,70
Halifax River, Daytona Beach, Fla.-----	29 13N.	81 01W.	38
Imbituba, Brazil-----	28 17S.	48 40W.	66
Ivigutut, Greenland-----	61 12N.	48 11W.	6,68

List of Stations -Continued

5

Station	Lat. o ,	Long. o ,	Page
Jacksonville, Fla.-----	30 21N.	81 37W.	37
Key West, Fla.-----	24 33N.	81 48W	39,69
Kiptopeke Beach, Va.-----	37 10N.	75 59W.	23,68
La Guaira, Venezuela-----	10 36N.	66 56W.	60,70
Little Creek, Va.-----	36 55N.	76 11W.	24
Long Branch, N. J.-----	40 18N.	73 59W.	18,68
Mayport, Fla.-----	30 24N.	81 26W.	36,69
Miami Beach, Fla.-----	25 46N.	80 08W.	39,69
Monrovia, Liberia-----	6 20N.	10 48W.	67
Montauk, Fort Pond Bay, L. I., N.Y.-----	41 03N.	71 58W.	14,68
Nantucket Shoals Lightship-----	40 37N.	69 37W.	13
New London, Conn.-----	41 22N.	72 06W.	13,68
Newport, R.I.-----	41 30N.	71 20W.	13
New York (Fort Hamilton), N.Y.-----	40 37N.	74 02W.	17
New York (The Battery), N.Y.-----	40 42N.	74 01W	15,68
New York (Willets Point), N.Y.-----	40 48N.	73 47W.	14,68
North Charleston Terminals, Cooper River, S.C.-----	32 54N.	79 58W.	34
Old Point Comfort, Va.-----	37 00N.	76 18W.	24,68
Palm Beach, Fla.-----	26 43N.	80 02W.	39
Pensacola, Fla.-----	30 24N.	87 13W.	42,69
Philadelphia, Pa.-----	39 57N.	75 08W.	22 68
Port-au-Prince, Haiti-----	18 33N.	72 21W.	55,70
Port Isabel, Tex.-----	26 04N.	97 13W.	47,70
Portland, Me.-----	43 40N.	70 15W.	8,68
Port Royal, Jamaica-----	17 56N.	76 51W.	55
Portsmouth, N. H.-----	43 05N.	70 45W.	9,68
Progreso, Mexico-----	21 17N.	89 40W.	49
Puerto Cabezas, Nicaragua-----	14 01N.	83 23W.	50
Puerto Castilla, Honduras-----	16 00N.	86 02W.	50
Puerto Cortés, Honduras-----	15 50N.	87 57W.	50
Puerto Limón, Costa Rica-----	10 00N.	83 02W.	51
Puerto Mexico (Coatzacoalcos), Mexico-----	18 09N.	94 25W.	48,70
Puerto Plata, Dominican Republic-----	19 49N.	70 42W.	57 70
Pulpit Harbor, Me.-----	44 09N.	68 53W.	8
Recife, Brazil -----	8 03S.	34 52W	64,70
Richmond, Va.-----	37 32N.	77 25W.	25,68
Rio de Janeiro (Fortaleza de Santa Cruz), Brazil-----	22 56S.	43 08W.	65,70
Ríohacha, Colombia-----	11 34N.	72 55W.	59
Rockport, Tex.-----	28 01N.	97 03W.	47,70
St. Lucia (Castries), B.W.I.-----	14 01N.	61 00W.	57
St. Lucia (Vieux Fort), B.W.I.-----	13 44N.	60 58W.	58
St. Petersburg, Fla.-----	27 46N.	82 38W.	41,69
Salinópolis, Brazil-----	0 37S.	47 23W.	63
Salvador, Brazil-----	12 58S.	38 31W.	64,70
Sandy Hook, N.J.-----	40 28N.	74 01W.	17,68
Solomons, Md.-----	38 19N.	76 27W.	27,68
Southport, N. C.-----	33 55N.	78 01W.	31,69
Trinidad (Carenage Bay), B.W.I.-----	10 41N.	61 36W.	58,70
Veracruz, Mexico-----	19 11N.	96 07W.	48
Washington, D. C.-----	38 52N.	77 01W.	26,68
Willets Point, New York, N.Y.-----	40 48N.	73 47W.	14,68
Woods Hole, Mass.-----	41 31N.	70 40W.	12,68

Table 1. Density of Sea Water
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
IVIGTUT, GREENLAND															
1945	---	---	---	---	---	---	1.0160	1.0137	1.0178	1.0200	1.0240	1.0242	---	1.0247*	1.0076*
1946	1.0245	1.0247	1.0248	1.0250	1.0223	1.0211	181	170	204	231	240	247	1.0225	258	157
1947	256	258	249	251	242	224	204	174	208	226	241	246	232	274	131
1948	249	250	248	246	237	204	178	145	197	227	241	249	223	262	127
1949	247	252	249	255	252	217	184	196	185	222	243	246	229	260	156
1950	249	256	---	---	231	210	185	153	193	227	246	247	---	263*	122*
1951	245	248	251	246	220	187	162	143	158	222	241	244	214	256	101
1952	248	242	247	246	228	182	155	151	150	---	---	223	---	252*	116*
Mean Density	1.0248	1.0250	1.0249	1.0249	1.0233	1.0205	1.0176	1.0159	1.0184	1.0222	1.0242	1.0243	1.0222		
Salinity	33.5	33.7	33.6	33.6	31.5	27.8	24.1	21.8	25.1	30.1	32.7	32.8	30.1		
Max.	1.0274	1.0264	1.0260	1.0260	1.0262	1.0242	1.0224	1.0213	1.0241	1.0243	1.0258	1.0263		1.0274	
Mean Max.	1.0256	1.0257	1.0256	1.0254	1.0252	1.0230	1.0202	1.0185	1.0213	1.0240	1.0250	1.0252			
Mean Min.	1.0238	1.0226	1.0221	1.0242	1.0199	1.0177	1.0148	1.0128	1.0146	1.0191	1.0227	1.0231			1.0076
Min.	1.0219	1.0173	1.0156	1.0235	1.0145	1.0142	1.0096	1.0076	1.0106	1.0132	1.0205	1.0213			
EASTPORT, ME.															
1930	1.0236	1.0235	1.0230	1.0230	1.0230	1.0232	1.0236	1.0240	1.0239	1.0239	1.0236	1.0237	1.0235	1.0244	1.0215
1931	237	236	233	227	225	227	230	233	235	236	238	240	233	244	220
1932	239	236	235	---	---	234	236	237	239	237	234	236	---	245*	229*
1933	236	236	235	229	228	230	234	235	---	237	236	236	---	241*	219*
1934	236	234	234	228	228	230	234	236	237	237	238	237	234	242	218
1935	236	234	233	230	228	230	233	236	238	239	239	232	234	243	215
1936	232	234	230	228	223	231	234	235	238	238	238	235	233	244	213
1937	234	233	234	232	228	229	234	235	237	239	239	237	234	243	222
1938	236	234	233	228	227	230	232	234	233	236	235	234	233	240	216
1939	235	235	233	231	228	230	232	235	236	237	238	236	234	241	223

1940	236	236	227	228	230	234	233	237	238	237	238	237	233	233	242	218
1941	235	235	228	231	233	238	237	239	238	239	238	239	235	235	244	223
1942	238	236	230	230	232	237	239	240	239	240	239	240	235	244	244	222
1943	242	239	237	239	242	241	242	240	234	237	237	240	240	246	246	226
1944	240	240	237	239	243	246	247	248	244	247	243	247	241	251	230	
1945	237	240	234	239	245	246	249	248	241	241	241	237	241	255	228	
1946	238	236	233	236	240	245	249	251	249	249	249	245	241	253	227	
1947	243	239	233	232	240	241	244	247	244	247	247	244	240	249	214	
1948	242	241	231	231	234	237	240	239	237	240	237	236	237	245	226	
1949	233	235	233	237	244	247	248	246	244	244	244	241	240	250	221	
1950	241	239	235	237	239	242	242	243	241	241	241	233	239	246	217	
1951	238	237	235	235	239	242	242	243	240	243	240	240	238	249	217	
1952	236	233	232	234	239	241	242	242	242	242	242	240	237	245	215	
1953	237	234	233	237	239	242	243	244	241	244	241	236	238	247	228	
1954	236	235	232	237	239	241	242	242	243	242	243	240	237	246	213	
1955	242	242	235	237	238	240	243	247	247	247	247	247	241	251	228	
1956	247	244	239	238	241	244	244	245	245	245	245	242	242	253	230	
Mean	257	257	248	246	247	247	248	250	251	251	251	254	257			
Density	1.0238	1.0237	1.0231	1.0233	1.0237	1.0239	1.0241	1.0241	1.0240	1.0241	1.0240	1.0238	1.0237			
Salinity	32.1	32.0	31.2	31.5	32.0	32.3	32.5	32.5	32.4	32.5	32.4	32.1	32.0			
Max.	1.0248	1.0248	1.0245	1.0244	1.0249	1.0250	1.0255	1.0252	1.0253	1.0252	1.0253	1.0250		1.0255		
Mean Max.	1.0241	1.0240	1.0236	1.0237	1.0239	1.0242	1.0244	1.0244	1.0244	1.0244	1.0244	1.0242				
Mean Min.	1.0233	1.0232	1.0225	1.0229	1.0233	1.0236	1.0237	1.0238	1.0236	1.0237	1.0236	1.0234				
Min.	1.0213	1.0213	1.0213	1.0214	1.0226	1.0230	1.0230	1.0232	1.0226	1.0232	1.0226	1.0217			1.0213	
BAR HARBOR, ME.																
1947	---	---	---	---	---	---	1.0239	1.0242	---	1.0243	---	1.0243	---			
1948	1.0242	1.0241	1.0238	1.0234	1.0230	1.0232	237	238	1.0238	238	1.0238	238	1.0235	245	220	
1949	234	235	233	232	236	239	242	244	242	242	242	241	237	247	220	
1950	239	241	238	234	237	238	240	244	244	244	244	234	239	250	224	
1951	235	236	232	234	237	238	238	241	236	241	236	238	236	246	216	
1952	235	233	231	230	233	234	237	239	239	239	239	236	234	246	214	
1953	234	230	231	224	232	235	234	237	236	237	236	232	232	244	210	
1954	232	230	228	226	225	232	233	236	235	233	235	230	231	246	207	

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
BAR HARBOR, ME. —Continued															
1955	1.0232	1.0234	1.0230	1.0228	1.0229	1.0229	1.0231	1.0232	1.0236	1.0239	1.0236	1.0240	1.0233	1.0246	1.0209
1956	233	236	233	226	229	230	231	232	233	236	237	234	232	245	212
Mean Density	1.0235	1.0235	1.0233	1.0230	1.0231	1.0231	1.0233	1.0235	1.0237	1.0240	1.0238	1.0237	1.0235		
Salinity	31.8	31.8	31.5	31.1	31.2	31.2	31.5	31.8	32.0	32.4	32.1	32.0	31.8		
Max.	1.0245	1.0248	1.0245	1.0242	1.0246	1.0239	1.0242	1.0244	1.0247	1.0248	1.0250	1.0246	1.0250		
Mean Max.	1.0241	1.0242	1.0239	1.0236	1.0237	1.0235	1.0238	1.0239	1.0242	1.0244	1.0243	1.0242			
Mean Min.	1.0225	1.0225	1.0224	1.0219	1.0227	1.0227	1.0227	1.0229	1.0230	1.0233	1.0227	1.0230			
Min.	1.0213	1.0207	1.0212	1.0209	1.0208	1.0220	1.0216	1.0220	1.0216	1.0218	1.0215	1.0221	1.0207		
1945	---	---	---	---	---	---	---	---	---	---	---	---	---	1.0234*	1.0218*
1946	1.0223	1.0216	---	1.0208	1.0203	1.0218	1.0225	231	232	232	233	232	---	240*	189*
PULPIT HARBOR, PENOBSCOT BAY, ME.															
PORTLAND, ME.															
1922	1.0236	1.0230	1.0212	1.0212	1.0206	---	1.0204	1.0219	1.0220	1.0220	1.0224	1.0225	---	1.0244*	1.0137*
1923	223	224	216	206	197	1.0215	222	223	224	229	227	222	1.0219	239	134
1924	225	225	223	214	205	223	230	230	222	228	230	223	223	236	157
1925	228	218	218	199	217	224	223	226	224	229	226	223	221	246	114
1926	224	225	227	214	220	224	225	224	225	228	223	221	223	235	202
1927	218	214	212	214	215	218	221	221	218	219	216	209	216	232	192
1928	210	209	212	207	---	---	---	---	---	---	---	213	---	230*	197*
1929	211	214	230	224	---	---	234	236	237	226	215	217	---	253*	181*
1930	215	---	213	219	222	230	234	234	231	226	228	215	---	254*	204*
1931	222	220	211	212	226	220	232	230	230	225	222	227	223	248	155
1932	219	227	225	220	226	236	240	235	232	222	221	218	227	250	178
1933	222	224	224	222	222	231	241	233	229	216	224	223	226	248	146
1934	---	---	217	190	219	212	231	222	232	---	---	---	---	237*	116*

1935	---	---	204	208	---	227	218	226	232	223	213	---	252*	169*
1936	219	216	163	175	228	227	224	224	226	---	216	---	238*	100*
1937	219	213	220	198	166	222	226	230	228	220	220	213	238	104
1938	225	214	215	204	208	219	222	223	222	225	215	217	236	167
1939	225	225	216	188	194	219	218	226	228	228	229	218	241	126
1940	229	227	221	186	196	200	227	228	228	224	224	218	242	127
1941	224	220	223	220	223	231	235	235	238	237	234	230	245	189
1942	232	231	211	213	212	210	223	223	227	223	227	221	242	126
1943	226	227	215	220	201	217	224	222	218	211	224	219	235	171
1944	225	223	214	203	208	222	230	224	227	218	216	220	238	158
1945	221	220	194	207	182	188	222	221	222	210	215	210	239	129
1956	---	---	---	---	---	---	---	---	224	226	222	---	234*	200*
Mean	1.0223	1.0221	1.0214	1.0207	1.0209	1.0218	1.0226	1.0226	1.0226	1.0223	1.0220	1.0220	1.0254	
Density	30.2	29.9	29.0	28.1	28.4	29.5	30.6	30.6	30.6	30.2	29.8	29.8		
Salinity	1.0244	1.0246	1.0236	1.0237	1.0245	1.0246	1.0252	1.0254	1.0244	1.0239	1.0242			
Max.	1.0232	1.0231	1.0228	1.0225	1.0226	1.0231	1.0237	1.0236	1.0235	1.0232	1.0231			
Mean Max.	1.0209	1.0205	1.0187	1.0176	1.0175	1.0191	1.0203	1.0209	1.0209	1.0206	1.0206			
Mean Min.	1.0194	1.0175	1.0100	1.0114	1.0104	1.0126	1.0126	1.0182	1.0166	1.0169	1.0172			1.0100
Min.														
PORTSMOUTH, N.H.														
1944	1.0233	1.0230	1.0209	1.0178	1.0204	1.0221	1.0217	1.0238	1.0227	1.0231	1.0226	1.0218	1.0241	1.0136
1945	211	220	176	196	176	196	210	224	229	222	202	208	238	102
1946	210	215	184	194	197	---	224	212	219	228	229	---	236*	125*
1947	228	208	193	191	190	198	211	218	236	232	235	214	241	156
1948	248	247	199	198	188	183	212	224	230	226	221	217	253	098
1949	202	203	192	191	208	224	231	234	238	234	231	219	241	153
1950	221	218	212	180	210	228	236	237	234	225	196	219	242	117
1951	210	184	182	168	201	208	223	221	225	180	198	202	236	091
1952	188	184	188	157	176	191	220	224	231	233	207	202	236	070
1953	198	186	161	146	---	213	227	228	233	227	204	---	236*	066*
1954	220	210	185	180	140	195	218	225	209	195	193	196	235	068

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
PORTSMOUTH, N.H. — Continued															
1955	1.0205	1.0210	1.0191	1.0191	1.0196	1.0210	1.0225	1.0226	1.0231	1.0226	1.0192	1.0222	1.0210	1.0237	1.0151
1956	190	214	210	162	189	205	225	231	232	230	227	208	210	240	091
Mean Density	1.0213	1.0210	1.0191	1.0179	1.0190	1.0206	1.0221	1.0226	1.0225	1.0229	1.0219	1.0211	1.0210		
Salinity	28.9	28.5	26.0	24.4	25.9	28.0	29.9	30.6	30.4	31.0	29.7	28.6	28.5		
Max.	1.0251	1.0253	1.0239	1.0228	1.0231	1.0238	1.0240	1.0242	1.0238	1.0241	1.0241	1.0241		1.0253	
Mean Max.	1.0234	1.0233	1.0227	1.0219	1.0219	1.0227	1.0232	1.0233	1.0234	1.0235	1.0232	1.0232			
Mean Min.	1.0181	1.0179	1.0138	1.0125	1.0149	1.0174	1.0207	1.0216	1.0211	1.0221	1.0198	1.0183			1.0066
Min.	1.0113	1.0124	1.0072	1.0066	1.0068	1.0126	1.0180	1.0192	1.0105	1.0198	1.0137	1.0146			
BOSTON, MASS.															
1922	1.0228	1.0227	1.0206	1.0206	1.0204	1.0199	1.0194	1.0220	1.0214	1.0225	1.0228	1.0230	1.0215	1.0236	1.0128
1923	211	219	204	197	204	219	224	227	230	229	225	209	216	234	140
1924	213	220	211	197	201	218	224	223	212	223	227	229	216	234	160
1925	229	214	208	207	220	225	230	229	228	231	227	217	222	237	167
1926	225	224	209	210	215	226	230	226	231	232	227	226	223	238	165
1927	222	216	206	217	220	234	227	216	208	215	219	206	217	232	166
1928	217	215	219	220	201	206	215	225	221	226	226	226	216	234	167
1929	222	221	209	194	210	222	228	232	231	231	230	226	221	235	143
1930	221	223	223	218	223	228	229	228	233	230	226	227	226	238	202
1931	224	216	187	203	207	186	211	219	222	229	229	227	213	232	117
1932	217	220	214	205	220	228	233	230	225	209	196	220	218	236	140
1933	202	222	185	170	208	223	224	226	210	211	222	221	210	230	141
1934	205	227	194	187	212	217	227	227	221	220	222	223	215	233	159

1935	209	216	201	182	209	206	220	227	224	231	225	224	215	234	131
1936	220	221	171	185	215	224	226	228	219	223	228	219	213	233	129
1937	205	215	215	201	199	205	218	226	221	227	219	203	213	233	152
1938	212	201	213	208	205	210	192	189	203	198	214	196	203	233	132
1939	215	210	192	166	192	219	229	230	229	229	222	228	213	235	102
1940	223	228	199	169	191	202	220	228	229	229	224	210	214	238	101
1941	215	216	225	213	219	223	232	231	234	234	233	231	226	243	175
1942	224	219	172	200	214	216	222	222	229	227	223	216	215	235	098
1943	203	216	191	217	192	216	229	230	230	226	226	229	217	257	118
1944	229	228	217	197	206	225	---	232	222	224	219	210	---	237*	160*
1945	220	217	176	213	192	198	210	219	226	230	215	177	208	237	112
1946	188	206	181	211	204	192	226	199	205	224	229	228	208	233	123
1947	212	224	212	211	196	217	220	219	218	233	219	228	217	238	149
1948	229	223	171	187	191	175	202	221	227	219	217	221	207	239	117
1949	213	212	212	195	209	226	231	231	215	228	223	230	219	236	140
1950	226	221	206	210	209	230	231	233	231	232	222	219	222	239	139
1951	214	180	171	175	196	191	224	221	225	218	189	204	201	231	091
1952	195	184	171	173	188	200	226	214	227	228	227	223	205	234	062
1953	211	203	176	154	153	210	224	227	228	222	202	198	201	236	089
1954	214	207	199	188	141	189	214	221	165	206	193	195	194	232	068
1955	204	204	198	185	193	204	214	169	178	176	173	211	192	229	029
1956	177	189	178	147	188	200	217	222	210	213	218	199	196	228	085
Mean	232	237	216	208	207	210	213	213	214	217	216	214	222	222	
Density	1.0214	1.0214	1.0198	1.0195	1.0201	1.0212	1.0221	1.0222	1.0219	1.0223	1.0219	1.0217	1.0213	1.0213	
Salinity	29.0	29.0	26.9	26.5	27.3	28.8	29.9	30.1	29.7	30.2	29.7	29.4	28.9	28.9	
Max.	1.0238	1.0239	1.0235	1.0257	1.0230	1.0237	1.0243	1.0239	1.0238	1.0246	1.0236	1.0237	1.0237	1.0257	
Mean Max.	1.0228	1.0228	1.0224	1.0221	1.0221	1.0226	1.0231	1.0231	1.0230	1.0232	1.0229	1.0228	1.0228	1.0237	
Mean Min.	1.0183	1.0183	1.0152	1.0153	1.0165	1.0178	1.0201	1.0199	1.0198	1.0201	1.0195	1.0190	1.0213	1.0213	
Min.	1.0103	1.0062	1.0089	1.0084	1.0068	1.0101	1.0118	1.0029	1.0105	1.0091	1.0116	1.0085	1.0029	1.0029	
1955	---	---	---	---	---	---	---	1.0228	1.0227	1.0231	1.0228	1.0229	---	1.0237	1.0221*
1956	1.0232	1.0231	1.0231	1.0230	1.0229	1.0229	1.0229	230	231	232	233	231	1.0231	243	220

CAPE COD CANAL (east entrance), MASS.

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
CAPE COD CANAL (west entrance), MASS.															
1955	---	---	---	---	---	---	---	1.0231	1.0229	1.0231	1.0227	1.0229	---	1.0238*	1.0222*
1956	1.0233	1.0230	1.0231	1.0228	1.0228	1.0230	1.0230	231	232	232	234	232	1.0231	240	220
WOODS HOLE, MASS.															
1944	---	---	1.0237	1.0236	1.0238	1.0240	1.0240	1.0240	1.0241	1.0240	1.0238	1.0237	---	1.0254*	1.0223*
1945	1.0237	1.0240	237	239	238	241	239	237	240	239	238	233	1.0238	264	230
1946	231	232	236	234	235	235	238	237	241	240	241	242	237	248	227
1947	241	239	239	239	240	243	244	241	242	244	240	240	241	258	234
1948	238	234	237	238	240	238	237	237	237	235	234	232	236	249	125
1949	233	232	---	230	235	240	241	241	245	244	243	241	---	256*	217*
1950	240	239	238	238	240	241	242	243	243	244	242	239	241	247	233
1951	238	237	235	236	239	239	240	239	240	240	238	237	238	242	234
1952	236	235	233	236	239	238	239	234	239	239	239	238	237	244	181
1953	235	234	230	229	228	231	233	232	236	235	234	230	232	239	225
1954	229	233	234	236	234	235	236	235	235	234	233	229	234	246	226
1955	229	231	231	234	234	235	238	234	233	232	229	229	232	243	226
1956	229	229	229	229	232	235	234	234	235	237	235	235	233	240	226
Mean Density	1.0235	1.0235	1.0235	1.0235	1.0236	1.0238	1.0239	1.0237	1.0239	1.0239	1.0237	1.0236	1.0237		
Salinity	31.8	31.8	31.8	31.8	31.9	32.1	32.3	32.0	32.3	32.3	32.0	31.9	32.0		
Max.	1.0254	1.0242	1.0245	1.0264	1.0255	1.0253	1.0258	1.0247	1.0248	1.0249	1.0256	1.0254		1.0264	
Mean Max.	1.0238	1.0237	1.0238	1.0240	1.0240	1.0242	1.0244	1.0241	1.0243	1.0242	1.0242	1.0240			
Mean Min.	1.0232	1.0222	1.0231	1.0230	1.0233	1.0235	1.0235	1.0229	1.0235	1.0235	1.0234	1.0232			
Min.	1.0226	1.0125	1.0223	1.0217	1.0225	1.0228	1.0228	1.0181	1.0225	1.0230	1.0227	1.0226			1.0125

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
MONTAUK, FORT POND BAY, L.I., N.Y.															
1947	---	---	---	---	---	---	---	---	1.0231	1.0233	1.0230	1.0228	---	1.0238*	1.0224*
1948	1.0240	1.0229	1.0223	1.0219	1.0223	1.0220	1.0222	---	231	233	233	228	---	245*	203*
1949	221	220	217	215	219	222	225	1.0230	231	234	233	234	1.0225	236	202
1950	231	229	228	223	225	227	230	231	234	235	233	227	229	239	218
1951	225	224	222	214	218	224	225	226	229	231	224	224	224	234	198
1952	222	220	221	213	213	215	220	223	---	---	233	229	---	237*	202*
1953	226	219	217	205	210	215	222	225	228	231	231	226	221	236	197
1954	227	228	223	222	215	221	222	223	225	224	226	220	223	232	209
1955	220	224	219	217	216	225	226	222	223	223	213	216	220	232	188
1956	218	218	218	216	214	215	221	227	229	230	228	228	222	236	207
Mean Density	1.0226	1.0223	1.0221	1.0216	1.0217	1.0220	1.0224	1.0226	1.0229	1.0230	1.0228	1.0226	1.0224		
Salinity	30.6	30.2	29.9	29.3	29.4	29.8	30.3	30.6	31.0	31.1	30.8	30.6	30.3		
Max.	1.0245	1.0232	1.0231	1.0232	1.0233	1.0232	1.0235	1.0235	1.0238	1.0240	1.0241	1.0236		1.0245	
Mean Max.	1.0229	1.0228	1.0226	1.0224	1.0223	1.0225	1.0230	1.0231	1.0234	1.0235	1.0234	1.0230			
Mean Min.	1.0220	1.0218	1.0216	1.0207	1.0211	1.0216	1.0218	1.0216	1.0223	1.0226	1.0223	1.0221			
Min.	1.0210	1.0212	1.0209	1.0197	1.0201	1.0208	1.0202	1.0188	1.0216	1.0214	1.0205	1.0213			1.0188
NEW YORK (Willetts Point), N. Y.															
1932	1.0189	1.0186	1.0192	1.0184	1.0184	1.0193	1.0191	1.0202	1.0203	1.0196	1.0188	1.0192	1.0192	1.0215	1.0169
1933	192	193	190	174	173	180	185	190	184	184	184	189	185	198	160
1934	186	---	---	173	177	182	187	192	187	185	187	190	---	201*	161*
1935	192	176	176	185	186	193	196	204	195	188	188	188	189	214	164
1936	192	---	183	182	---	186	187	193	196	193	190	190	---	204*	151*
1937	180	175	176	174	171	176	178	185	180	182	178	178	178	192	158
1938	178	174	176	174	178	181	180	185	---	177	174	163	---	191*	149*
1939	168	167	163	157	163	171	183	190	191	191	189	191	177	200	148

1940	194	195	186	170	171	167	178	184	184	185	186	187	182	204	158
1941	184	183	188	184	186	190	191	201	201	203	200	203	193	209	162
1942	200	200	191	185	188	186	186	184	187	182	181	179	187	208	153
1943	179	181	171	173	166	171	183	190	190	191	188	193	181	200	156
1944	194	195	186	177	179	185	187	194	---	---	197	189	---	210*	165*
1945	192	192	179	182	163	177	178	176	183	182	182	176	180	200	158
1946	174	178	172	173	179	170	184	185	184	186	197	184	180	200	160
1947	183	183	181	175	175	176	184	187	188	191	189	---	---	200*	162*
1948	---	192	181	173	172	171	180	188	193	193	195	190	---	198*	159*
1949	173	177	179	176	179	182	191	194	195	196	196	197	186	203	158
1950	197	193	191	190	184	189	190	192	194	194	195	187	191	201	180
1951	187	188	185	168	177	177	182	---	---	192	186	181	---	198*	159*
1952	178	174	177	166	166	---	178	---	185	189	192	187	---	196*	158*
1953	187	180	176	163	165	172	179	184	192	192	193	190	181	210	152
1954	194	191	188	183	172	179	187	192	189	192	184	182	186	200	165
1955	183	184	175	178	180	184	192	183	183	173	164	171	179	200	144
1956	176	172	170	162	166	175	182	186	188	189	185	193	179	197	148
Mean	1.0186	1.0184	1.0180	1.0175	1.0175	1.0180	1.0185	1.0190	1.0190	1.0189	1.0188	1.0186	1.0184		
Density	25.4	25.1	24.6	23.9	23.9	24.6	25.2	25.9	25.9	25.8	25.6	25.4	25.1		
Salinity														1.0215	
Max.	1.0208	1.0206	1.0204	1.0201	1.0200	1.0210	1.0207	1.0214	1.0215	1.0210	1.0207	1.0209			
Mean Max.	1.0191	1.0188	1.0189	1.0184	1.0182	1.0188	1.0192	1.0197	1.0196	1.0195	1.0194	1.0192			
Mean Min.	1.0178	1.0175	1.0170	1.0166	1.0168	1.0173	1.0176	1.0181	1.0183	1.0181	1.0179	1.0178			
Min.	1.0157	1.0148	1.0150	1.0148	1.0156	1.0156	1.0164	1.0157	1.0158	1.0144	1.0147	1.0149			1.0144
NEW YORK (The Battery), N. Y.															
1927	1.0160	1.0143	1.0106	1.0137	1.0132	---	---	1.0171	1.0168	1.0153	1.0113	1.0113	---	1.0195*	1.0056*
1928	139	142	140	128	143	1.0145	1.0133	144	154	179	181	175	1.0150	196	103
1929	163	167	127	108	124	161	170	182	186	178	172	166	159	196	076
1930	148	159	128	142	165	162	180	185	186	187	181	182	167	198	103
1931	179	181	167	131	140	151	158	171	177	175	168	156	163	195	102
1932	139	144	158	122	145	172	177	179	184	162	133	153	156	201	056
1933	160	150	140	105	146	171	175	175	158	172	171	169	158	201	065
1934	158	173	149	120	152	170	183	191	181	175	175	157	165	203	074

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
NEW YORK (The Battery), N. Y. —Continued															
1935	1.0159	1.0165	1.0142	1.0155	1.0159	1.0181	1.0159	1.0177	1.0186	1.0191	1.0171	1.0156	1.0167	1.0203	1.0101
1936	159	180	106	110	154	176	188	199	191	186	160	160	163	204	024
1937	133	142	153	134	138	162	167	176	169	173	152	153	154	192	080
1938	156	128	141	131	157	165	152	155	138	144	152	113	144	182	035
1939	148	138	112	088	134	163	179	181	182	180	165	169	153	197	063
1940	174	180	162	084	123	130	157	171	166	174	155	144	152	196	052
1941	144	141	148	122	160	177	183	190	194	192	177	170	166	220	094
1942	158	164	128	124	154	151	153	163	166	146	132	141	148	193	062
1943	141	141	098	120	086	130	165	170	177	179	147	154	142	206	046
1944	173	173	137	101	125	152	166	180	178	177	171	153	157	206	063
1945	158	164	098	122	090	126	135	134	148	126	126	123	129	187	043
1946	126	150	111	141	138	121	169	169	170	166	167	168	150	199	068
1947	161	143	136	109	099	115	152	164	175	182	159	165	147	193	035
1948	179	176	112	116	126	139	156	168	177	183	179	165	156	199	052
1949	110	133	137	138	147	166	180	181	183	184	177	162	158	199	035
1950	143	147	136	118	143	152	173	179	169	178	164	133	153	198	048
1951	141	126	123	091	144	158	152	161	162	166	135	137	141	194	041
1952	127	134	129	088	118	130	158	169	165	178	179	147	144	207	053
1953	136	128	110	091	099	156	176	177	185	182	176	147	147	201	053
1954	163	149	130	125	113	142	177	184	175	175	142	139	151	201	022
1955	147	162	117	114	151	166	183	154	166	123	120	149	146	205	049
1956	164	151	128	091	120	141	170	179	168	172	167	147	150	195	035
Mean	167	167	147	128	137	159	159	153	158	161	163	165	167		
Density	1.0152	1.0152	1.0130	1.0117	1.0134	1.0153	1.0166	1.0173	1.0173	1.0171	1.0159	1.0152	1.0153		
Salinity	20.9	20.9	18.0	16.3	18.6	21.0	22.7	23.7	23.7	23.4	21.8	20.9	21.0		
Max.	1.0197	1.0197	1.0195	1.0179	1.0187	1.0201	1.0200	1.0205	1.0220	1.0206	1.0207	1.0199		1.0220	
Mean Max.	1.0177	1.0177	1.0167	1.0149	1.0163	1.0175	1.0185	1.0189	1.0191	1.0191	1.0184	1.0180			
Mean Min.	1.0118	1.0115	1.0084	1.0080	1.0096	1.0122	1.0142	1.0150	1.0150	1.0146	1.0127	1.0113			
Min.	1.0035	1.0072	1.0024	1.0035	1.0035	1.0022	1.0079	1.0081	1.0037	1.0049	1.0069	1.0035			1.0022

NEW YORK (Fort Hamilton), N.Y.

1911	1.0183	1.0189	1.0175	1.0129	1.0166	1.0181	1.0197	1.0207	1.0194	1.0168	1.0159	1.0158	1.0176	1.0224	1.0084
1912	184	190	150	099	135	172	201	211	206	197	164	157	172	223	008
1913	132	173	132	128	169	178	200	209	207	198	167	175	172	226	017
1914	187	172	164	096	139	184	191	202	203	209	210	198	180	226	048
1915	165	158	161	167	182	199	174	164	175	181	184	160	172	213	075
1916	130	146	157	110	140	153	166	180	188	193	185	156	159	214	058
1917	168	179	138	123	148	144	166	190	191	158	162	179	162	222	044
1918	---	---	123	118	147	170	184	221	201	152	167	164	---	242*	088*
1919	160	174	140	124	144	171	177	175	169	166	144	151	158	215	083
1920	176	187	138	104	141	163	174	175	177	169	167	---	---	218*	060*
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1927	182	176	142	164	161	174	190	184	163	166	120	126	162	216	054
1928	156	160	155	134	148	149	151	164	167	193	193	187	163	209	078

Mean

Density

Salinity

Max.

Mean Max.

Mean Min.

Min.

1.0167
22.9

1.0242

1.0008

SANDY HOOK, N.J.

1887	---	---	---	1.0125	1.0149	1.0179	1.0181	1.0171	1.0183	1.0194	1.0193	1.0187	---	1.0217*	1.0088*
1888	1.0153	1.0161	1.0147	120	151	176	194	198	180	175	166	157	1.0165	209	081
1889	144	170	172	162	168	174	176	161	183	177	149	146	165	214	102
1890	164	173	152	154	160	166	187	199	181	170	167	182	171	220	116
1891	157	143	140	141	182	194	202	200	191	199	202	188	178	216	104
1892	150	189	178	164	184	177	193	201	194	199	188	171	182	227	116
1893	175	155	150	150	137	181	---	---	---	---	---	---	---	205*	072*

*Observations for the year are incomplete; extremes are for the months shown.

1950	1.0237	1.0232	229	236	243	254	260	261	257	242	247	231	1.0244	282	210
1951	234	234	230	240	240	244	247	239	254	247	231	232	239	269	207
1952	229	230	233	240	238	259	242	239	248	231	233	231	238	277	213
1953	228	230	231	242	240	249	237	239	258	234	233	233	238	278	213
1954	232	228	231	235	234	236	254	264	256	249	240	228	241	281	210
1955	228	227	230	232	233	242	247	240	260	255	235	229	238	275	206
Mean	1.0231	1.0230	1.0230	1.0237	1.0233	1.0240	1.0242	1.0242	1.0249	1.0239	1.0236	1.0231	1.0237		
Density	31.2	31.1	31.1	32.0	31.5	32.4	32.7	32.7	33.6	32.3	31.9	31.2	32.0		
Salinity														1.0282	
Max.	1.0253	1.0256	1.0258	1.0263	1.0260	1.0277	1.0278	1.0282	1.0281	1.0270	1.0258	1.0250			
Mean Max.	1.0246	1.0246	1.0245	1.0255	1.0253	1.0257	1.0264	1.0258	1.0265	1.0252	1.0247	1.0245			
Mean Min.	1.0220	1.0219	1.0214	1.0216	1.0209	1.0220	1.0220	1.0223	1.0229	1.0221	1.0224	1.0218			
Min.	1.0217	1.0217	1.0205	1.0206	1.0150	1.0156	1.0181	1.0201	1.0201	1.0212	1.0221	1.0215		1.0150	
ASBURY PARK, N.J.															
1945	---	---	---	---	---	---	---	---	---	---	---	1.0214	---	1.0228*	1.0194*
1946	1.0220	---	---	---	---	1.0216	1.0219	1.0215	1.0220	1.0224	1.0230	235	---	246*	193*
1947	231	1.0231	1.0233	1.0216	1.0222	211	223	---	---	---	---	---	---	244*	147*
ATLANTIC CITY, N.J.															
1912	1.0232	1.0239	1.0231	1.0233	1.0234	1.0240	1.0239	1.0239	1.0238	1.0237	1.0237	1.0237	1.0236	1.0247	1.0211
1913	232	238	238	231	225	231	242	238	239	235	233	236	235	245	202
1914	240	238	237	234	221	234	232	232	236	237	237	237	235	247	210
1915	236	227	230	234	235	233	237	235	232	233	236	235	234	244	212
1916	232	232	230	---	232	229	230	230	233	236	233	229	---	239*	219*
1917	231	231	228	224	225	231	231	230	230	231	228	229	229	239	212
1918	---	233	226	224	230	229	231	231	233	231	233	230	---	240*	210*
1919	228	230	225	226	225	229	232	230	230	228	226	227	228	240	212
1920	231	229	226	228	223	219	230	229	229	235	233	228	228	239	214
1923	231	229	229	228	235	237	233	232	232	230	228	227	231	242	210
1924	225	226	227	226	222	225	230	231	229	227	230	229	227	238	199

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
ATLANTIC CITY, N.J. —Continued															
1925	1.0234	1.0233	1.0230	1.0224	1.0235	1.0243	1.0241	1.0236	1.0239	1.0236	1.0232	1.0234	1.0235	1.0247	1.0205
1926	237	237	237	236	236	242	240	237	236	241	242	235	238	247	217
1927	237	237	232	231	242	239	238	238	231	229	226	222	234	250	209
1928	227	229	231	236	227	238	241	233	226	237	244	251	235	251	208
1929	238	238	238	230	236	240	242	242	241	238	236	235	238	250	210
1930	232	233	233	237	243	243	245	242	244	244	241	240	240	257	223
1931	238	239	236	235	239	236	232	229	234	238	239	238	236	247	207
1932	234	232	229	231	232	243	248	245	244	242	235	232	237	256	213
1933	232	241	245	237	241	244	242	236	236	237	236	234	238	260	210
1934	227	232	228	223	231	235	235	230	227	232	234	236	231	248	212
1935	232	231	232	226	235	234	235	236	223	231	228	234	231	243	206
1936	231	230	230	228	239	237	234	235	234	233	235	227	233	249	205
1937	223	222	229	227	235	235	228	233	231	232	232	230	230	247	207
1938	230	231	234	235	237	235	235	236	232	222	234	228	232	244	204
1939	230	229	230	231	224	237	239	229	230	237	237	240	233	246	204
1940	237	237	235	225	227	229	231	237	234	237	234	232	233	244	202
1941	231	235	237	236	242	241	243	242	247	247	246	242	241	253	221
1942	240	238	239	237	240	239	237	232	232	230	234	229	236	254	220
1943	228	230	229	230	233	236	239	243	239	241	240	244	236	251	211
1944	246	246	238	228	237	237	243	239	238	232	229	228	237	256	207
1945	229	236	228	236	239	237	232	224	230	230	230	220	231	242	206
1946	221	224	220	227	233	229	228	231	231	231	238	237	229	245	205
1947	235	235	237	235	236	235	239	233	234	242	240	234	236	248	221
1948	237	236	229	231	227	221	235	226	232	230	233	231	231	245	197
1949	224	226	223	230	234	237	238	240	241	237	233	231	233	247	199
1950	238	233	234	237	231	243	244	242	238	239	239	234	238	251	216
1951	235	225	228	229	236	228	234	236	237	236	230	234	232	243	202
1952	228	235	228	231	224	230	235	226	230	235	235	234	231	245	201

1953	230	228	225	222	226	225	229	227	234	235	230	228	228	209
1954	235	237	238	237	223	236	235	238	232	235	228	225	233	212
1955	226	229	232	227	230	234	235	233	229	230	226	224	230	207
1956	228	228	222	223	231	230	233	231	232	226	224	226	228	203
Mean	250	251	248	242	238	242	221	217	220	231	242	248	239	
Density	1.0232	1.0233	1.0231	1.0230	1.0232	1.0234	1.0236	1.0234	1.0234	1.0234	1.0234	1.0232	1.0233	
Salinity	31.4	31.5	31.2	31.1	31.4	31.6	31.9	31.6	31.6	31.6	31.6	31.4	31.5	
Max.	1.0256	1.0253	1.0249	1.0254	1.0257	1.0260	1.0257	1.0253	1.0253	1.0252	1.0253	1.0249	1.0260	
Mean Max.	1.0239	1.0239	1.0239	1.0240	1.0241	1.0242	1.0243	1.0241	1.0240	1.0241	1.0240	1.0238		
Mean Min.	1.0223	1.0224	1.0221	1.0217	1.0220	1.0225	1.0228	1.0226	1.0226	1.0227	1.0226	1.0224		
Min.	1.0199	1.0202	1.0205	1.0201	1.0199	1.0197	1.0211	1.0210	1.0207	1.0204	1.0206	1.0206	1.0197	
BREAKWATER HARBOR, DEL.														
1921	---	---	---	---	---	---	1.0222	1.0225	1.0228	1.0231	1.0225	1.0214	---	1.0235*1.0203*
1922	1.0203	1.0209	---	1.0205	1.0209	1.0208	214	220	218	219	220	214	---	241* 187*
1923	216	209	1.0206	198	---	---	---	---	---	---	---	---	---	226* 166*
1947	---	---	---	---	208	215	219	219	219	220	217	215	---	239* 168*
1948	207	218	211	200	202	200	211	212	214	206	219	211	1.0209	233 154
1949	194	184	190	208	205	210	220	223	224	227	219	220	210	234 159
1950	218	208	220	---	---	---	---	---	---	---	---	---	---	229* 180*
1952	---	---	---	---	---	196	214	220	219	215	219	201	---	231* 145*
1953	203	196	197	194	200	204	212	216	223	224	218	217	209	230 157
1954	203	216	209	208	207	217	226	233	227	229	226	214	218	239 169
1955	206	213	211	209	212	---	228	215	209	209	201	204	---	233* 162*
1956	199	219	203	195	199	203	211	216	218	216	211	211	208	234 150
Mean	1.0205	1.0208	1.0206	1.0202	1.0205	1.0207	1.0218	1.0220	1.0220	1.0220	1.0218	1.0212	1.0212	
Density	27.8	28.2	28.0	27.5	27.8	28.1	29.5	29.8	29.8	29.8	29.5	28.8	28.8	
Salinity														
Max.	1.0229	1.0233	1.0232	1.0241	1.0228	1.0230	1.0234	1.0239	1.0234	1.0239	1.0238	1.0230		
Mean Max.	1.0223	1.0222	1.0219	1.0220	1.0218	1.0219	1.0227	1.0229	1.0229	1.0228	1.0227	1.0222		
Mean Min.	1.0182	1.0190	1.0177	1.0182	1.0189	1.0185	1.0205	1.0206	1.0208	1.0205	1.0202	1.0198		
Min.	1.0150	1.0157	1.0157	1.0154	1.0176	1.0145	1.0187	1.0162	1.0186	1.0168	1.0182	1.0185		1.0145

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
PHILADELPHIA, PA.															
1923	0.9995	0.9995	0.9996	0.9996	0.9996	1.0001	0.9999	1.0000	0.9999	0.9997	0.9995	0.9995	0.9997	1.0012	0.9990
1924	0.9996	0.9996	0.9994	0.9996	0.9999	---	0.9994	0.9997	0.9995	0.9992	0.9991	0.9990	---	1.0002*	0.9988*
1925	0.9991	0.9992	0.9992	0.9994	0.9996	0.9996	0.9996	0.9997	0.9996	0.9994	0.9992	0.9991	0.9994	1.0005	0.9989
1926	0.9992	0.9992	0.9991	0.9991	0.9995	0.9995	0.9997	0.9996	0.9995	0.9993	0.9992	0.9992	0.9993	1.0000	0.9990
1927	0.9992	0.9992	0.9991	0.9992	0.9994	0.9997	0.9999	0.9996	0.9997	0.9995	0.9992	0.9992	0.9994	1.0004	0.9990
1928	0.9993	0.9994	0.9992	0.9996	0.9999	1.0000	0.9999	1.0001	0.9999	0.9999	0.9997	0.9996	0.9997	1.0009	0.9989
1929	0.9995	0.9996	0.9998	0.9997	0.9998	0.9999	1.0000	1.0001	1.0000	1.0001	1.0000	0.9997	0.9999	1.0007	0.9991
1930	0.9997	0.9996	0.9998	0.9999	1.0002	1.0003	1.0003	0.9999	0.9999	0.9998	0.9998	0.9997	0.9999	1.0009	0.9992
1931	0.9996	0.9997	0.9996	0.9999	1.0001	1.0001	1.0002	1.0002	1.0003	1.0001	1.0000	0.9999	1.0000	1.0011	0.9993
1932	0.9999	0.9999	0.9999	0.9999	0.9999	1.0000	0.9999	0.9999	1.0001	1.0002	1.0000	0.9997	0.9999	1.0007	0.9992
1933	0.9998	0.9998	0.9999	0.9996	1.0000	1.0000	1.0003	1.0002	1.0003	1.0001	1.0001	0.9999	1.0000	1.0008	0.9991
1934	0.9999	0.9996	0.9998	1.0000	1.0001	1.0002	1.0001	1.0001	1.0000	1.0000	0.9998	0.9997	0.9999	1.0007	0.9985
1935	0.9998	0.9996	0.9999	1.0000	1.0002	1.0003	1.0001	1.0000	1.0000	1.0002	0.9998	0.9995	1.0000	1.0008	0.9992
1936	0.9995	0.9996	0.9995	0.9997	0.9999	0.9997	0.9998	0.9999	0.9999	0.9995	0.9994	0.9994	0.9997	1.0011	0.9989
1937	0.9994	0.9995	0.9995	0.9994	0.9996	1.0000	1.0000	0.9996	1.0000	0.9997	0.9995	0.9995	0.9996	1.0006	0.9989
1938	0.9996	0.9995	0.9996	0.9998	1.0003	1.0000	1.0000	1.0001	1.0000	0.9998	0.9998	0.9993	0.9998	1.0008	0.9992
1939	0.9993	0.9993	0.9992	0.9993	0.9995	0.9995	0.9997	0.9996	0.9997	0.9994	0.9993	0.9993	0.9995	1.0001	0.9988
1940	0.9992	0.9993	0.9993	0.9992	0.9995	0.9996	0.9996	0.9996	0.9994	0.9993	0.9996	0.9993	0.9994	1.0005	0.9987
1941	0.9993	0.9993	0.9993	0.9994	0.9996	0.9996	0.9996	0.9998	0.9998	0.9997	0.9994	0.9995	0.9995	1.0002	0.9987
1942	0.9993	0.9993	0.9994	0.9994	0.9997	0.9997	1.0000	0.9997	0.9998	0.9998	0.9996	0.9995	0.9996	1.0007	0.9989
1943	0.9994	0.9994	0.9994	0.9995	0.9998	0.9999	0.9997	0.9998	0.9997	0.9996	0.9994	0.9994	0.9996	1.0005	0.9991
1944	0.9992	0.9992	0.9990	0.9991	0.9998	0.9998	0.9997	0.9996	0.9995	0.9993	0.9994	0.9993	0.9994	1.0002	0.9988
1945	0.9991	0.9991	0.9991	0.9995	0.9994	0.9995	0.9995	0.9996	0.9995	0.9993	0.9992	0.9992	0.9993	1.0003	0.9987
1946	0.9992	0.9994	0.9994	0.9996	0.9997	0.9999	0.9998	0.9999	0.9997	0.9995	0.9996	0.9996	0.9996	1.0007	0.9991
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1954	---	---	---	---	---	---	0.9998	1.0000	0.9995	0.9996	0.9992	0.9989	---	1.0002*	0.9988*

1955	0.9990	0.9991	0.9992	0.9993	0.9996	0.9996	0.9994	0.9990	0.9989	0.9989	0.9988	0.9992	1.0000	0.9987
1956	0.9989	0.9988	0.9989	0.9993	0.9993	0.9994	0.9996	0.9995	0.9993	0.9993	0.9995	0.9992	0.9998	0.9986
Mean Density	0.9994	0.9994	0.9995	0.9998	0.9998	0.9998	0.9998	0.9998	0.9996	0.9995	0.9994	0.9996		
Salinity	0.3	0.3	0.4	0.8	0.8	0.8	0.8	0.8	0.6	0.4	0.3	0.6		
Max.	1.0002	1.0002	1.0005	1.0008	1.0012	1.0009	1.0011	1.0011	1.0009	1.0005	1.0004	1.0012		
Mean Max.	0.9997	0.9997	0.9999	1.0002	1.0003	1.0003	1.0003	1.0002	1.0001	0.9998	0.9997			
Mean Min.	0.9992	0.9991	0.9992	0.9993	0.9994	0.9994	0.9993	0.9994	0.9992	0.9992	0.9992			
Min.	0.9988	0.9985	0.9986	0.9988	0.9990	0.9988	0.9990	0.9988	0.9987	0.9987	0.9988			0.9985
KIPTOPEKE BEACH, VA.														
1951	---	---	---	---	---	---	---	1.0196	1.0211	1.0199	1.0197	---	1.0234*1.0156*	
1952	1.0194	1.0182	1.0176	1.0162	1.0152	1.0167	1.0180	1.0191	199	195	193	1.0182	240	095
1953	186	174	169	159	160	169	188	194	201	202	194	183	234	125
1954	194	199	182	186	173	186	191	206	204	---	208	---	241*	121*
1955	208	204	181	196	189	203	210	213	198	195	195	198	240	158
1956	199	185	181	166	---	193	199	213	205	206	190	---	229*	152*
Mean Density	1.0196	1.0189	1.0178	1.0174	1.0168	1.0184	1.0194	1.0203	1.0200	1.0202	1.0197	1.0190		
Salinity	26.7	25.8	24.3	23.8	23.0	25.1	26.4	27.6	27.2	27.5	26.8	25.9		
Max.	1.0231	1.0241	1.0224	1.0222	1.0206	1.0224	1.0238	1.0240	1.0240	1.0234	1.0233	1.0235	1.0241	
Mean Max.	1.0227	1.0225	1.0213	1.0210	1.0199	1.0212	1.0225	1.0227	1.0226	1.0227	1.0223	1.0224		
Mean Min.	1.0170	1.0165	1.0150	1.0149	1.0128	1.0155	1.0158	1.0177	1.0174	1.0179	1.0172	1.0170		
Min.	1.0162	1.0150	1.0136	1.0132	1.0095	1.0125	1.0140	1.0163	1.0154	1.0173	1.0161	1.0161		1.0095
CAPE CHARLES (town), VA.														
1947	---	---	---	---	---	---	1.0171	1.0175	1.0178	1.0179	1.0177	1.0171	1.0208*1.0154*	
1948	1.0166	1.0169	1.0167	1.0158	1.0145	1.0150	168	167	174	167	177	159	196	115
1949	148	141	143	145	153	164	171	171	179	188	182	182	199	124
1950	179	174	163	155	157	168	175	182	182	175	171	153	200	137
1951	146	148	144	142	147	154	168	172	179	186	173	175	209	118
1952	162	148	141	140	130	147	162	174	176	168	---	---	196*	101*

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
CAPE CHARLES (town), VA. — Continued															
Mean Density	1.0160	1.0156	1.0152	1.0148	1.0146	1.0157	1.0169	1.0174	1.0178	1.0177	1.0176	1.0168	1.0163		
Salinity	22.0	21.4	20.9	20.4	20.1	21.6	23.1	23.8	24.3	24.2	24.1	23.0	22.4		
Max.	1.0188	1.0196	1.0191	1.0175	1.0183	1.0198	1.0199	1.0195	1.0200	1.0209	1.0208	1.0204		1.0209	
Mean Max.	1.0172	1.0175	1.0180	1.0164	1.0169	1.0175	1.0190	1.0189	1.0193	1.0192	1.0197	1.0183			
Mean Min.	1.0149	1.0138	1.0134	1.0130	1.0122	1.0135	1.0146	1.0154	1.0160	1.0163	1.0160	1.0156			
Min.	1.0133	1.0124	1.0124	1.0109	1.0101	1.0124	1.0136	1.0150	1.0150	1.0154	1.0152	1.0137			1.0101
LITTLE CREEK, VA.															
1954	1.0163	1.0167	---	---	1.0160	1.0164	1.0175	1.0190	1.0191	1.0201	1.0192	1.0173	---	1.0208*	1.0125*
1955	168	171	1.0151	1.0156	154	172	---	173	146	166	168	160	---	192*	133*
1956	163	153	165	152	149	154	172	169	179	170	152	162	1.0162	189	114
Mean Density	1.0165	1.0164	1.0158	1.0154	1.0154	1.0163	1.0174	1.0177	1.0172	1.0179	1.0171	1.0165	1.0166		
Salinity	22.6	22.5	21.7	21.2	21.2	22.4	23.8	24.2	23.5	24.4	23.4	22.6	22.7		
Max.	1.0175	1.0182	1.0186	1.0170	1.0174	1.0183	1.0184	1.0203	1.0199	1.0208	1.0201	1.0183		1.0203	
Mean Max.	1.0173	1.0171	1.0176	1.0168	1.0168	1.0175	1.0183	1.0190	1.0181	1.0192	1.0179	1.0177			
Mean Min.	1.0149	1.0156	1.0136	1.0139	1.0145	1.0154	1.0158	1.0158	1.0164	1.0165	1.0154	1.0153			
Min.	1.0125	1.0147	1.0133	1.0134	1.0141	1.0145	1.0156	1.0134	1.0138	1.0145	1.0114	1.0145			1.0114
OLD POINT COMFORT, VA.															
1943	---	---	---	---	---	---	---	---	---	1.0167	1.0166	1.0170	---	1.0186*	1.0149*
1944	1.0158	1.0157	1.0117	1.0125	1.0144	1.0145	1.0164	1.0182	1.0169	1.0153	1.0167	1.0157	1.0153	192	068
1945	144	148	134	150	144	144	138	130	141	136	153	---	---	169*	106*
1948	---	121	119	107	120	129	155	149	154	147	146	102	---	174*	029*
1949	105	097	113	113	111	136	142	146	143	159	140	151	130	180	074

142
137
132
131
130

1950	150	134	135	138	129	131	154	162	154	147	144	145	175	104
1951	144	134	119	105	118	120	143	152	158	164	157	139	188	086
1952	127	108	103	112	107	130	149	167	161	157	141	135	178	058
1953	132	113	109	107	134	141	151	153	164	164	161	142	176	079
1954	154	156	131	143	142	146	161	171	178	182	154	157	193	107
1955	147	155	117	134	---	152	---	---	---	---	---	---	194*	080*
Mean	153	147	129	128	120	117	121	120	137	150	161	140		
Density	1.0140	1.0132	1.0120	1.0123	1.0128	1.0137	1.0151	1.0157	1.0158	1.0158	1.0149	1.0143		
Salinity	19.3	18.3	16.7	17.1	17.8	19.0	20.8	21.6	21.7	21.7	20.5	19.7		
Max.	1.0175	1.0188	1.0164	1.0171	1.0163	1.0194	1.0189	1.0192	1.0188	1.0193	1.0185		1.0194	
Mean Max.	1.0159	1.0156	1.0145	1.0145	1.0143	1.0158	1.0166	1.0170	1.0173	1.0172	1.0171			
Mean Min.	1.0118	1.0101	1.0098	1.0096	1.0105	1.0115	1.0135	1.0142	1.0137	1.0143	1.0122			
Min.	1.0086	1.0058	1.0079	1.0043	1.0066	1.0092	1.0111	1.0106	1.0110	1.0116	1.0119		1.0029	
RICHMOND, VA.														
1947	----	----	0.9990	0.9991	0.9993	0.9994	0.9992	0.9994	0.9994	0.9994	0.9990	----	0.9999*0.9985*	
1948	0.9991	0.9990	0.9990	0.9991	0.9993	0.9995	0.9995	0.9994	0.9992	0.9990	0.9990	0.9992	1.0001	0.9986
1949	0.9990	0.9989	0.9993	0.9993	0.9993	0.9995	0.9997	0.9995	0.9993	0.9993	0.9992	0.9993	1.0003	0.9986
1950	0.9992	0.9990	0.9990	0.9994	0.9997	0.9997	0.9998	0.9997	0.9996	0.9995	0.9994	0.9995	1.0006	0.9988
1951	0.9995	0.9992	0.9995	0.9997	0.9999	1.0000	1.0001	0.9999	0.9999	0.9995	0.9995	0.9997	1.0006	0.9988
1952	0.9994	0.9993	0.9991	0.9994	0.9998	0.9995	0.9997	0.9999	0.9995	0.9992	0.9991	0.9994	1.0006	0.9983
1953	0.9993	0.9992	0.9992	0.9992	0.9997	0.9996	0.9996	0.9995	0.9996	0.9994	0.9993	0.9992	1.0007	0.9987
1954	0.9992	0.9994	0.9994	0.9993	0.9994	0.9995	0.9994	0.9994	0.9994	0.9994	0.9996	0.9994	1.0005	0.9989
1955	0.9995	0.9994	0.9996	0.9996	0.9996	0.9993	0.9994	0.9993	0.9994	----	0.9994	----	1.0003*0.9987*	
1956	0.9997	0.9997	0.9996	0.9998	0.9997	0.9999	0.9998	0.9999	0.9998	0.9999	0.9997	0.9997	1.0007	0.9992
Mean	0.9993	0.9992	0.9993	0.9994	0.9996	0.9996	0.9996	0.9996	0.9995	0.9994	0.9993	0.9994		
Density	0.2	0.0	0.2	0.3	0.6	0.6	0.6	0.6	0.4	0.3	0.2	0.3		
Salinity	1.0000	1.0000	1.0003	1.0002	1.0004	1.0007	1.0005	1.0006	1.0007	1.0004	1.0003		1.0007	
Max.	0.9997	0.9996	0.9997	0.9999	1.0000	1.0002	1.0001	1.0000	1.0002	0.9999	0.9998			
Mean Max.	0.9990	0.9990	0.9990	0.9990	0.9992	0.9991	0.9992	0.9991	0.9990	0.9989	0.9990			
Mean Min.	0.9986	0.9986	0.9988	0.9987	0.9989	0.9986	0.9989	0.9989	0.9989	0.9983	0.9985		0.9983	
Min.														

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
GLOUCESTER POINT, VA.															
1950	---	---	---	---	---	1.0133	1.0151	1.0155	1.0152	1.0145	1.0164	1.0148	---	1.0193*	1.0115*
1951	1.0143	1.0134	1.0124	1.0119	1.0120	131	147	152	156	163	159	157	1.0142	170	110
1952	142	124	121	114	108	126	134	160	156	155	155	142	136	201	074
1953	137	120	119	109	116	126	132	134	148	151	153	154	133	161	079
1954	153	150	146	145	140	144	155	169	175	177	175	168	158	184	129
1955	162	157	138	139	133	153	163	133	120	143	144	143	144	171	059
1956	151	141	138	131	125	126	139	145	154	148	130	139	139	161	113
Mean	1.0148	1.0138	1.0131	1.0126	1.0124	1.0134	1.0146	1.0150	1.0152	1.0155	1.0154	1.0150	1.0142		
Density	20.4	19.1	18.2	17.5	17.3	18.6	20.1	20.6	20.9	21.3	21.2	20.6	19.6		
Salinity															
Max.	1.0168	1.0164	1.0155	1.0153	1.0150	1.0165	1.0169	1.0186	1.0201	1.0184	1.0193	1.0175		1.0201	
Mean Max.	1.0159	1.0147	1.0144	1.0141	1.0134	1.0148	1.0156	1.0164	1.0165	1.0164	1.0165	1.0160			
Mean Min.	1.0134	1.0125	1.0116	1.0111	1.0112	1.0122	1.0234	1.0132	1.0141	1.0147	1.0140	1.0136			
Min.	1.0114	1.0108	1.0100	1.0079	1.0074	1.0104	1.0118	1.0059	1.0101	1.0130	1.0113	1.0121			1.0059
WASHINGTON, D.C.															
1944	0.9994	0.9994	0.9994	0.9993	0.9997	0.9996	0.9997	0.9997	0.9997	0.9996	0.9995	0.9995	0.9995	1.0007	0.9988
1945	0.9993	0.9994	0.9994	0.9996	0.9994	0.9995	0.9993	0.9994	0.9994	0.9992	0.9991	0.9989	0.9993	1.0006	0.9986
1946	0.9987	0.9988	0.9988	0.9989	0.9991	0.9994	0.9994	0.9994	0.9993	0.9992	0.9991	0.9990	0.9991	1.0000	0.9985
1947	0.9988	0.9987	0.9988	0.9992	0.9995	0.9996	0.9996	0.9997	0.9995	0.9994	0.9992	0.9990	0.9992	1.0005	0.9985
1948	0.9990	0.9990	0.9994	---	---	---	0.9998	0.9997	0.9997	0.9993	0.9992	0.9992	---	1.0007*	0.9988*
1949	0.9992	0.9992	0.9993	0.9993	0.9996	0.9999	0.9998	0.9998	0.9995	0.9995	0.9993	0.9993	0.9995	1.0010	0.9989
1950	0.9992	0.9992	0.9992	0.9993	0.9999	0.9998	0.9999	0.9999	0.9997	0.9996	0.9995	0.9995	0.9996	1.0007	0.9990
1951	0.9994	0.9995	0.9996	0.9996	0.9998	0.9997	0.9999	0.9998	0.9997	0.9996	0.9996	0.9995	0.9996	1.0006	0.9992
1952	0.9995	0.9995	0.9995	0.9997	0.9997	0.9998	0.9998	0.9997	0.9996	0.9996	0.9997	0.9994	0.9996	1.0007	0.9992
1953	0.9994	0.9994	0.9997	0.9997	0.9996	0.9998	0.9996	0.9992	0.9992	0.9993	0.9992	0.9992	0.9994	1.0003	0.9986
1954	0.9991	0.9989	0.9990	0.9993	0.9992	0.9992	0.9992	0.9993	0.9993	0.9992	0.9990	0.9990	0.9991	1.0000	0.9987

Table 1. Density of Sea Water - Continued

Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.	
SOLOMONS, MD. —Continued																
Mean Density	1.0103	1.0101	1.0089	1.0075	1.0073	1.0076	1.0086	1.0093	1.0104	1.0113	1.0118	1.0110	1.0095			
Salinity	14.5	14.2	12.7	10.8	10.6	11.0	12.3	13.2	14.6	15.8	16.5	15.4	13.5			
Max.	1.0145	1.0139	1.0130	1.0121	1.0111	1.0117	1.0117	1.0125	1.0133	1.0143	1.0142	1.0148		1.0148		
Mean Max.	1.0113	1.0109	1.0103	1.0090	1.0085	1.0089	1.0095	1.0104	1.0112	1.0120	1.0124	1.0119				
Mean Min.	1.0092	1.0090	1.0070	1.0060	1.0058	1.0063	1.0078	1.0083	1.0095	1.0105	1.0108	1.0099				
Min.	1.0046	1.0054	1.0043	1.0037	1.0039	1.0033	1.0051	1.0055	1.0076	1.0080	1.0082	1.0060			1.0033	
CAMBRIDGE, MD.																
1945	---	---	---	---	---	---	---	1.0039	1.0054	1.0058	1.0057	1.0043	---	1.0066*	1.0025*	
1946	1.0039	1.0048	1.0052	1.0053	1.0054	1.0053	1.0041	0.48	0.67	0.79	0.85	0.86	1.0059	0.92	0.29	
1947	0.82	0.78	0.76	0.75	0.67	0.60	0.57	0.57	0.66	0.80	0.94	0.93	0.74	1.02	0.41	
1948	0.60	0.63	0.76	0.62	0.50	0.46	0.51	0.45	0.65	0.82	0.82	0.63	0.62	0.95	0.06	
1949	0.49	0.42	0.43	0.44	0.50	0.58	0.62	0.68	0.83	0.92	0.95	0.96	0.65	1.04	0.33	
1950	0.97	0.90	0.83	0.73	0.63	0.64	0.64	0.71	0.79	0.88	0.95	0.80	0.79	1.05	0.57	
1951	0.70	0.60	0.60	0.58	0.57	0.64	0.69	0.72	0.79	0.84	0.86	0.75	0.70	1.03	0.43	
1952	0.64	0.45	0.48	0.42	0.41	0.46	0.59	0.56	0.66	0.78	0.81	0.73	0.58	0.87	0.23	
1953	0.65	0.59	0.48	0.40	0.36	0.35	0.44	0.56	0.68	0.77	---	---	---	0.85*	0.28*	
Mean Density	1.0066	1.0061	1.0061	1.0056	1.0052	1.0052	1.0056	1.0057	1.0070	1.0080	1.0084	1.0076	1.0064			
Salinity	9.7	9.0	9.0	8.4	7.9	7.9	8.4	8.5	10.2	11.5	12.0	11.0	9.4			
Max.	1.0105	1.0093	1.0093	1.0084	1.0079	1.0075	1.0076	1.0081	1.0091	1.0103	1.0102	1.0104		1.0105		
Mean Max.	1.0079	1.0072	1.0070	1.0064	1.0060	1.0060	1.0062	1.0066	1.0078	1.0090	1.0091	1.0088				
Mean Min.	1.0046	1.0047	1.0050	1.0044	1.0042	1.0045	1.0048	1.0048	1.0058	1.0070	1.0067	1.0062				
Min.	1.0006	1.0018	1.0037	1.0023	1.0027	1.0028	1.0033	1.0025	1.0041	1.0052	1.0050	1.0029			1.0006	

ANNAPOLIS, MD.

1947	1.0064	1.0080	1.0037	1.0037	1.0025	1.0040	1.0043	1.0057	1.0076	1.0092	1.0093	1.0060	1.0101	1.0011
1948	094	092	055	029	044	053	054	066	092	098	081	066	106	010
1949	032	043	053	050	042	050	061	086	099	111	103	066	118	008
1950	064	071	074	044	051	049	055	078	093	097	047	066	111	026
1951	051	037	048	036	040	060	058	079	090	102	089	063	107	019
1952	067	047	056	033	042	042	057	062	089	098	074	060	107	021
1953	078	058	055	039	029	027	037	075	081	097	101	061	107	019
1954	094	091	066	060	046	068	079	108	109	108	107	086	118	030
1955	082	091	056	059	072	082	086	080	077	062	068	075	100	023
1956	087	092	048	040	038	043	054	075	086	089	074	066	100	004

Mean

Density

Salinity

10.6

10.1

8.8

1.0059

1.0043

6.7

6.7

7.5

7.5

8.6

8.6

9.6

9.6

11.1

12.7

13.5

1.0084

1.0095

1.0089

1.0089

1.0089

1.0089

1.0089

1.0089

1.0089

1.0089

1.0089

1.0089

1.0089

1.0089

1.0089

1.0089

1.0089

Max.

Mean Max.

Mean Min.

Min.

1.0100

1.0087

1.0052

1.0008

1.0089

1.0076

1.0034

1.0010

1.0019

1.0086

1.0054

1.0032

1.0016

1.0086

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1.0086

BALTIMORE, MD.

1914	1.0076	1.0053	1.0062	1.0024	1.0026	1.0042	1.0051	1.0058	1.0066	1.0089	1.0100	1.0062	1.0109	1.0013
1915	065	050	074	074	061	052	047	048	058	067	076	060	108	021
1916	050	050	059	031	026	025	019	051	057	066	071	044	077	014
1917	062	061	047	031	045	039	024	047	070	063	077	050	083	020
1918	059	056	026	032	030	023	038	059	062	062	067	047	079	012
1919	062	080	060	046	031	018	028	049	055	058	047	047	090	013
1920	063	067	041	014	022	036	045	059	064	063	053	047	079	011
1921	050	058	035	026	031	040	047	063	073	073	064	051	080	017
1922	061	069	046	030	028	025	021	050	060	072	082	049	087	019
1923	080	074	050	028	036	033	053	057	079	087	074	059	089	019
1924	042	048	---	015	014	009	010	043	040	062	062	---	067*	007*

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
BALTIMORE, MD. - Continued															
1925	1.0069	1.0043	1.0031	1.0050	1.0056	1.0050	1.0051	1.0058	1.0071	1.0077	1.0072	1.0081	1.0059	1.0096	1.0014
1926	083	068	053	045	048	059	064	065	061	060	043	035	057	094	026
1927	063	044	042	034	036	027	043	047	071	064	045	034	046	081	016
1928	043	043	050	032	024	027	014	020	038	049	059	065	039	071	009
1929	070	080	044	023	012	022	037	050	062	065	063	061	049	088	008
1930	050	062	046	039	049	066	058	065	083	106	125	124	073	132	028
1931	123	122	125	067	051	041	054	062	083	086	094	091	083	132	022
1932	078	061	075	043	037	036	056	065	076	081	068	070	062	090	025
1933	070	070	060	030	023	042	051	053	047	059	071	068	053	080	015
1934	063	078	062	040	039	044	048	053	058	070	069	065	057	084	026
1935	062	064	043	042	045	049	042	044	061	070	072	073	056	089	024
1936	066	051	023	013	017	035	051	063	068	077	082	079	052	089	006
1937	050	058	063	053	026	028	048	049	064	079	057	059	053	091	016
1938	059	052	050	042	048	050	052	055	070	083	084	078	060	093	028
1939	077	053	033	030	035	042	052	062	081	083	089	100	061	105	016
1940	102	100	092	031	029	037	053	064	079	081	080	067	068	115	015
1941	078	085	080	045	070	069	059	081	085	093	100	106	079	111	028
1942	096	102	073	051	049	040	058	057	069	070	058	052	064	126	024
1943	035	046	033	040	019	019	030	050	082	101	078	086	052	107	012
1944	086	094	071	053	024	043	043	053	078	097	104	097	070	118	017
1945	078	095	033	023	031	028	029	030	046	040	044	043	043	105	014
1946	040	049	029	041	047	025	028	039	048	072	078	074	048	093	018
1947	068	053	072	042	038	023	028	027	040	068	073	081	051	093	011
1948	085	081	061	022	032	037	045	046	072	086	081	070	060	095	014
1949	034	039	045	042	032	044	048	061	079	088	095	080	057	102	004
1950	050	063	062	037	035	029	040	061	061	075	073	037	052	083	019
1951	033	033	---	---	---	---	039	048	064	075	083	---	---	089*	015*

1952	052	038	045	024	033	030	036	047	053	078	074	066	048	096	010
1953	062	044	038	030	015	016	031	054	061	072	088	074	049	092	003
1954	072	071	054	042	---	051	072	083	084	085	093	090	---	107*	025*
1955	081	076	047	045	056	065	069	056	060	058	048	059	060	103	025
1956	085	075	044	035	026	030	039	052	064	072	071	063	055	096	016
Mean	1.0066	1.0064	1.0053	1.0037	1.0035	1.0037	1.0043	1.0050	1.0063	1.0073	1.0074	1.0071	1.0056		
Density	9.7	9.4	8.0	5.9	5.6	5.9	6.7	7.6	9.3	10.6	10.7	10.3	8.4		
Salinity														1.0132	
Max.	1.0126	1.0130	1.0132	1.0114	1.0086	1.0082	1.0079	1.0091	1.0104	1.0128	1.0132	1.0127			
Mean Max.	1.0078	1.0078	1.0072	1.0051	1.0044	1.0046	1.0050	1.0060	1.0073	1.0081	1.0083	1.0082			
Mean Min.	1.0052	1.0049	1.0036	1.0024	1.0026	1.0028	1.0035	1.0040	1.0052	1.0062	1.0064	1.0058			
Min.	1.0019	1.0014	1.0007	1.0006	1.0008	1.0003	1.0007	1.0014	1.0023	1.0027	1.0026	1.0004			1.0003
DIAMOND SHOAL LIGHTSHIP															
1923	---	---	---	---	1.0272	1.0274	1.0261	1.0247	1.0239	---	---	1.0255	---	1.0285*	1.0221*
1924	---	---	1.0236	1.0242	239	244	256	267	260	1.0249	1.0247	267	---	293*	199*
1925	1.0254	1.0264	268	260	266	277	276	275	274	269	266	272	1.0268	286	229
1926	267	258	260	262	273	275	272	271	262	270	266	245	265	294	224
1927	259	259	249	253	272	253	255	265	252	253	254	255	257	291	213
1928	270	268	268	271	---	---	---	---	---	---	---	---	---	281*	227*
Mean															
Density	1.0262	1.0262	1.0256	1.0258	1.0264	1.0265	1.0264	1.0265	1.0257	1.0260	1.0258	1.0259	1.0261		
Salinity	35.3	35.3	34.5	34.8	35.5	35.7	35.5	35.7	34.6	35.0	34.8	34.9	35.1		
Max.	1.0284	1.0283	1.0280	1.0281	1.0294	1.0290	1.0284	1.0293	1.0287	1.0285	1.0288	1.0286		1.0294	
Mean Max.	1.0280	1.0278	1.0276	1.0279	1.0284	1.0282	1.0281	1.0284	1.0278	1.0281	1.0283	1.0276			
Mean Min.	1.0232	1.0234	1.0227	1.0225	1.0240	1.0237	1.0237	1.0238	1.0235	1.0230	1.0237	1.0240			
Min.	1.0224	1.0222	1.0215	1.0207	1.0222	1.0200	1.0204	1.0221	1.0222	1.0199	1.0217	1.0231			1.0199
SOUTHPORT, N. C.															
1946	---	---	1.0141	1.0145	1.0114	1.0146	1.0093	1.0114	1.0145	1.0146	1.0164	1.0173	---	1.0240*	1.0020*
1947	1.0113	1.0169	125	098	177	204	168	180	138	147	119	140	---	260	018
1948	132	064	091	121	171	159	197	200	224	194	155	103	1.0148	260	000
1949	135	126	136	151	126	161	138	165	132	193	165	183	151	249	016

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
SOUTHPORT, N.C. - Continued															
1950	1.0163	1.0170	1.0153	1.0190	1.0161	1.0182	1.0100	1.0168	1.0188	1.0203	1.0204	1.0187	1.0172	1.0268	0.9991
1951	193	195	172	145	191	219	200	184	223	234	208	188	196	256	1.0009
1952	183	133	089	137	159	199	219	202	171	206	206	177	173	256	015
1953	155	098	093	151	165	212	210	225	235	226	230	178	182	258	0.9992
1954	133	149	128	114	179	213	238	241	250	---	---	---	---	271*	1.0035*
Mean															
Density	1.0151	1.0138	1.0125	1.0139	1.0160	1.0188	1.0174	1.0187	1.0190	1.0194	1.0181	1.0166	1.0166		
Salinity	20.8	19.1	17.4	19.2	22.0	25.6	23.8	25.5	25.9	26.4	24.7	22.7	22.7		
Max.	1.0249	1.0255	1.0256	1.0238	1.0251	1.0252	1.0259	1.0271	1.0265	1.0268	1.0256	1.0255		1.0271	
Mean Max.	1.0240	1.0230	1.0235	1.0222	1.0232	1.0239	1.0231	1.0250	1.0251	1.0251	1.0249	1.0244			
Mean Min.	1.0062	1.0047	1.0046	1.0046	1.0080	1.0119	1.0100	1.0103	1.0126	1.0095	1.0103	1.0085			
Min.	1.0016	0.9992	1.0015	1.0009	1.0026	1.0025	1.0001	1.0021	1.0021	0.9991	1.0030	1.0009			0.9991
CHARLESTON (Customhouse Wharf), S. C. †															
1922	1.0239	1.0227	1.0203	1.0208	1.0219	1.0211	---	---	1.0217	1.0222	1.0224	1.0220	---	1.0244*	1.0185*
1923	203	208	207	197	209	206	1.0219	1.0214	200	220	237	226	1.0212	249	184
1924	206	201	199	171	198	220	200	208	207	134	198	210	196	240	023
1925	184	158	195	212	233	237	233	243	250	252	244	238	223	258	130
1926	214	179	174	187	216	224	228	234	241	249	247	246	220	255	147
1927	245	244	240	240	249	248	239	198	217	234	240	244	236	257	181
1928	240	232	182	198	197	222	214	210	169	162	215	227	205	248	070
1929	219	191	170	196	210	210	215	224	222	211	217	211	208	240	143
1930	202	199	209	195	218	229	230	245	246	244	241	238	225	262	166
1931	227	228	226	213	228	242	241	249	247	248	253	254	238	269	196
1932	250	243	240	246	243	222	221	240	229	217	206	219	231	255	130
1933	216	188	191	216	229	240	233	233	187	222	227	236	218	248	122
1934	240	235	239	242	243	241	251	253	248	237	241	236	242	259	220

200
187
242
209
195
197
214
207
217
205
207

1935	235	234	239	245	245	246	225	214	175	211	228	235	228	217	254	137
1936	223	201	191	184	195	229	237	238	239	225	217	223	217	217	251	161
1937	218	187	192	199	200	220	228	226	211	224	230	230	230	214	243	162
1938	222	230	234	238	239	236	241	240	244	238	239	243	239	237	257	215
1939	243	237	185	214	228	222	226	228	235	244	245	245	245	229	253	154
1940	244	227	215	222	234	241	242	218	216	234	245	241	245	232	256	160
1941	238	242	236	224	243	240	168	194	214	235	240	225	240	225	255	088
1942	200	205	---	---	---	---	---	---	---	---	---	---	---	---	264*	157*
Mean	1.0224	1.0214	1.0208	1.0212	1.0224	1.0229	1.0226	1.0227	1.0221	1.0223	1.0232	1.0232	1.0232	1.0223	1.0223	---
Density	30.3	29.0	28.2	28.8	30.3	31.0	30.6	30.7	29.9	30.2	31.4	31.4	31.4	30.2	30.2	---
Salinity	1.0264	1.0251	1.0249	1.0252	1.0256	1.0255	1.0259	1.0260	1.0264	1.0269	1.0256	1.0260	1.0256	1.0269	1.0269	---
Max.	1.0240	1.0232	1.0225	1.0228	1.0238	1.0241	1.0243	1.0245	1.0241	1.0241	1.0242	1.0244	1.0242	1.0244	1.0244	---
Mean Max.	1.0210	1.0194	1.0190	1.0197	1.0207	1.0213	1.0204	1.0202	1.0189	1.0203	1.0218	1.0218	1.0218	1.0218	1.0218	---
Mean Min.	1.0150	1.0130	1.0143	1.0146	1.0161	1.0159	1.0088	1.0160	1.0070	1.0023	1.0180	1.0173	1.0180	1.0173	1.0023	---
Min.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1942	---	---	1.0144	1.0139	1.0142	1.0108	1.0160	1.0175	1.0164	1.0166	1.0146	1.0135	1.0146	---	1.0248*	1.0035*
1943	1.0121	1.0109	101	098	099	117	112	121	137	154	138	155	138	1.0121	246	050
1944	147	117	084	085	086	110	114	116	135	132	153	132	153	118	216	034
1945	128	125	118	125	127	133	113	126	100	093	123	128	123	120	206	024
1946	107	094	112	089	074	103	137	112	133	131	115	130	115	111	227	030
1947	132	102	101	102	105	129	109	123	136	154	139	106	139	120	228	049
1948	092	086	061	070	089	103	114	125	144	137	127	091	127	103	228	025
1949	078	083	085	085	076	102	106	113	079	108	101	112	101	094	214	032
1950	113	125	124	111	109	111	116	150	128	152	151	133	123	127	229	038
1951	122	119	117	126	121	115	119	130	142	183	188	168	188	138	247	061
1952	162	141	078	079	111	111	125	151	134	123	141	129	141	124	237	039
1953	156	130	070	079	117	137	156	121	149	174	170	146	170	134	253	039
1954	126	105	098	104	122	112	124	196	206	207	190	182	190	148	262	051

CHARLESTON (Customhouse Wharf), S. C. - Second Series †

*Observations for the year are incomplete; extremes are for the months shown.

†A distinct change in the density of the water in Charleston Harbor took place when the hydro-electric plant near Moncks Corner, S. C. began diverting large quantities of water from the Santee River into the Cooper River. The plant began operation in January 1942 but did not reach average production before March 1942. Since lighter densities have persisted under the changed conditions, the observations have been separated at the end of February 1942 and are presented as two series.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
CHARLESTON (Customhouse Wharf), S.C. † - Continued															
1955	1.0150	1.0161	1.0130	1.0130	1.0124	1.0134	1.0177	1.0200	1.0156	1.0140	1.0160	1.0182	1.0154	1.0249	1.0073
1956	189	160	112	103	105	136	159	186	218	217	169	179	161	256	043
Mean Density	1.0130	1.0118	1.0102	1.0102	1.0107	1.0117	1.0129	1.0143	1.0144	1.0151	1.0147	1.0141	1.0128	1.0262	1.0024
Salinity	18.0	16.5	14.4	14.4	15.0	16.3	17.9	19.7	19.9	20.8	20.3	19.5	17.8	---	---
Max.	1.0227	1.0237	1.0195	1.0198	1.0213	1.0228	1.0228	1.0249	1.0256	1.0253	1.0262	1.0250	---	1.0148*	1.0084*
Mean Max.	1.0184	1.0174	1.0153	1.0153	1.0162	1.0185	1.0196	1.0211	1.0214	1.0224	1.0212	1.0201	---	135*	054*
Mean Min.	1.0080	1.0073	1.0063	1.0060	1.0066	1.0069	1.0071	1.0086	1.0086	1.0091	1.0089	1.0086	---	1.0137*	0.9992*
Min.	1.0034	1.0041	1.0025	1.0029	1.0030	1.0052	1.0034	1.0035	1.0024	1.0034	1.0047	1.0038	---	076*	0.9986*
CAINHOY, WANDO RIVER, S.C.															
1951	---	---	---	---	1.0104	1.0105	1.0097	1.0091	1.0109	1.0127	1.0138	1.0129	---	---	---
1952	1.0124	1.0105	1.0084	1.0064	078	---	---	---	---	---	---	---	---	---	---
NORTH CHARLESTON TERMINALS, COOPER RIVER, S.C.															
1951	---	---	---	---	---	1.0007	1.0015	1.0019	1.0028	1.0050	1.0057	1.0040	---	---	---
1952	1.0026	1.0017	1.0001	0.9998	1.0010	---	---	---	---	---	---	---	---	---	---
CHARLESTON (Virginia - Carolina Chemical Co. Wharf), ASHLEY R., S.C.															
1951	---	---	---	---	1.0129	1.0134	1.0131	1.0127	1.0139	1.0163	1.0172	1.0156	---	---	---
1952	1.0150	1.0112	1.0085	1.0089	124	---	---	---	---	---	---	---	---	---	---
FORT PULASKI, SAVANNAH RIVER, GA.															
1940	1.0114	1.0099	1.0083	1.0108	1.0122	1.0139	1.0139	1.0115	1.0101	1.0142	1.0140	1.0120	1.0118	1.0231	1.0013
1941	092	116	106	115	148	160	084	148	161	168	159	137	133	237	015
1942	087	091	049	074	123	114	154	146	139	157	168	139	120	234	001
1943	---	---	067	087	114	---	---	---	---	156	148	147	---	224*	027*
1944	094	118	052	029	062	119	142	124	144	152	160	160	113	211	0.9998

1945	156	101	094	113	097	154	159	132	116	123	134	107	124	227	0.9997
1946	046	067	062	054	066	098	126	139	135	114	114	140	097	224	1.0016
1947	094	082	063	052	106	110	124	145	157	130	072	074	101	221	009
1948	082	042	045	039	093	098	125	150	131	141	135	052	094	225	004
1949	073	066	068	070	063	095	101	116	105	104	102	116	090	232	025
1950	115	100	101	117	134	116	163	159	104	137	120	140	126	232	045
1951	126	113	111	097	113	144	162	161	173	170	165	138	139	229	043
1952	114	115	058	044	110	141	173	178	182	163	163	148	132	234	010
1953	145	129	075	083	098	128	138	140	130	128	146	127	122	203	023
1954	118	119	112	089	122	142	136	158	166	162	171	164	138	225	063
1955	143	143	140	123	129	155	153	157	157	142	165	153	147	215	072
1956	174	141	132	129	133	148	168	163	164	164	170	149	153	226	054
Mean	1.0111	1.0103	1.0083	1.0084	1.0108	1.0129	1.0140	1.0146	1.0142	1.0144	1.0143	1.0130	1.0122	1.0237	
Density	15.6	14.5	11.9	12.0	15.2	17.9	19.3	20.1	19.6	19.9	19.7	18.0	17.0		
Salinity	1.0220	1.0216	1.0221	1.0208	1.0237	1.0220	1.0231	1.0234	1.0227	1.0229	1.0230	1.0218			
Max.	1.0184	1.0172	1.0153	1.0147	1.0175	1.0199	1.0212	1.0216	1.0206	1.0205	1.0199	1.0189			
Mean Max.	1.0061	1.0052	1.0040	1.0035	1.0051	1.0067	1.0079	1.0084	1.0080	1.0086	1.0087	1.0077		0.9997	
Mean Min.	1.0009	0.9997	0.9998	1.0000	1.0012	1.0030	1.0024	1.0025	1.0032	1.0025	1.0025	1.0004			
Min.															
1944															
1945	1.0203	1.0209	1.0226	1.0243	1.0246	256	215	203	186	194	210	216	1.0217	275	134
1946	192	195	213	218	223	228	223	206	196	189	206	221	209	264	155
1947	226	215	194	185	214	227	222	---	218	148	146	153	---	261*	104*
1948	169	171	156	134	215	239	242	218	212	189	230	218	199	272	082
1949	199	177	193	211	216	227	236	239	193	190	216	225	210	268	147
1950	228	233	222	233	249	259	241	239	176	178	195	225	223	272	069
1951	220	220	227	247	242	254	261	260	258	221	214	223	237	276	176
1952	221	---	---	205	230	231	245	242	225	223	234	238	---	266*	063*
1953	237	230	221	213	234	252	245	211	182	144	192	196	213	262	081
1954	192	206	223	237	240	249	253	260	241	237	241	235	234	269	139

FERNANDINA BEACH, FLA.

†See footnote (†) on page 33.

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued

Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
FERNANDINA BEACH, FLA. - Continued															
1955	1.0240	1.0230	1.0238	1.0252	1.0254	1.0262	1.0266	1.0260	1.0229	1.0209	1.0233	1.0235	1.0242	1.0277	1.0156
1956	238	236	237	251	244	246	251	256	258	233	227	246	244	271	092
Mean Density	1.0214	1.0211	1.0214	1.0219	1.0234	1.0242	1.0239	1.0233	1.0212	1.0195	1.0211	1.0219	1.0220	1.0277	
Salinity	29.0	28.6	29.0	29.7	31.6	32.7	32.3	31.5	28.8	26.5	28.6	29.7	29.8		
Max.	1.0259	1.0249	1.0256	1.0272	1.0271	1.0275	1.0277	1.0273	1.0276	1.0265	1.0262	1.0259		1.0277	1.0063
Mean Max.	1.0238	1.0234	1.0239	1.0245	1.0256	1.0262	1.0263	1.0264	1.0255	1.0239	1.0241	1.0243			
Mean Min.	1.0179	1.0188	1.0178	1.0192	1.0200	1.0219	1.0205	1.0181	1.0165	1.0152	1.0168	1.0191			
Min.	1.0139	1.0147	1.0097	1.0082	1.0162	1.0173	1.0134	1.0063	1.0069	1.0081	1.0092	1.0112			
MAYPORT, FLA.															
1945	1.0154	1.0166	1.0185	1.0221	1.0215	1.0236	1.0116	1.0096	1.0089	1.0120	1.0128	1.0150	1.0156	1.0284	1.0020
1946	145	158	184	186	183	176	162	114	092	138	152	164	155	267	0.9999
1947	182	169	139	138	169	198	118	140	150	103	110	135	146	258	0.9998
1948	137	107	100	---	184	199	188	136	160	107	---	132	---	266*	1.0001*
1949	151	154	169	190	206	214	209	189	143	115	102	165	167	269	009
1950	141	187	183	217	241	232	206	243	175	129	109	148	184	270	014
1951	145	164	187	219	247	233	223	221	221	159	144	150	193	274	036
1952	156	160	133	154	200	207	221	227	212	143	114	161	174	267	060
1953	154	173	184	133	203	248	236	171	096	071	114	101	157	273	019
1954	128	150	161	216	230	234	223	227	220	201	164	183	195	281	041
1955	216	175	196	232	239	250	237	245	213	185	178	199	214	282	108
1956	206	174	199	236	236	238	211	243	245	209	138	148	207	274	077

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
1950	1.0257	1.0266	1.0265	1.0268	1.0271	1.0271	1.0266	1.0266	1.0264	---	---	---	---	1.0275*	1.0234*
Mean Density	1.0255	1.0256	1.0261	1.0263	1.0267	1.0269	1.0269	1.0268	1.0265	1.0253	1.0255	1.0253	1.0261		
Salinity	34.4	34.5	35.1	35.4	35.9	36.2	36.2	36.0	35.7	34.1	34.4	34.1	35.1		
Max.	1.0274	1.0278	1.0288	1.0286	1.0285	1.0293	1.0293	1.0278	1.0291	1.0289	1.0275	1.0273		1.0293	
Mean Max.	1.0263	1.0263	1.0269	1.0272	1.0274	1.0276	1.0275	1.0273	1.0273	1.0266	1.0264	1.0261			
Mean Min.	1.0245	1.0248	1.0251	1.0253	1.0256	1.0262	1.0261	1.0260	1.0250	1.0236	1.0246	1.0244			
Min.	1.0215	1.0213	1.0216	1.0230	1.0241	1.0238	1.0241	1.0247	1.0234	1.0184	1.0213	1.0212			1.0184
DAYTONA BEACH (Halifax River), FLA.															
1946	---	---	1.0096	1.0155	1.0190	1.0200	1.0161	1.0061	1.0040	1.0082	1.0125	1.0165	---	1.0213*	1.0015*
1947	1.0179	1.0178	104	041	082	101	015	---	094	069	085	136	---	186*	0.9999*
1948	153	---	---	---	---	---	---	---	---	---	---	---	---	172*	1.0097*
CANOVA BEACH, FLA.															
1951	---	---	---	---	---	1.0271	1.0269	1.0269	1.0269	1.0274	1.0263	1.0265	---	1.0304*	1.0246*
1952	1.0265	1.0266	1.0267	1.0269	1.0270	271	271	270	269	258	261	267	1.0267	284	244
1953	274	272	276	274	269	268	271	271	264	241	251	266	266	288	223
1954	267	269	270	272	271	273	269	269	270	270	271	269	270	288	260
1955	269	268	270	273	274	272	273	275	277	274	276	270	273	289	257
1956	265	267	270	273	272	273	268	268	---	267	260	265	---	282*	252*
Mean Density	1.0268	1.0268	1.0271	1.0272	1.0271	1.0271	1.0270	1.0270	1.0270	1.0264	1.0264	1.0267	1.0269		
Salinity	36.0	36.0	36.4	36.6	36.4	36.4	36.3	36.3	36.3	35.5	35.5	35.9	36.2		
Max.	1.0284	1.0284	1.0288	1.0287	1.0279	1.0288	1.0282	1.0281	1.0288	1.0304	1.0289	1.0281		1.0304	
Mean Max.	1.0277	1.0274	1.0278	1.0280	1.0277	1.0280	1.0276	1.0277	1.0277	1.0276	1.0275	1.0276			
Mean Min.	1.0262	1.0262	1.0264	1.0266	1.0266	1.0266	1.0266	1.0261	1.0259	1.0252	1.0254	1.0259			
Min.	1.0260	1.0257	1.0260	1.0264	1.0263	1.0262	1.0263	1.0257	1.0244	1.0223	1.0240	1.0257			1.0223

PALM BEACH, FLA.

1946	---	1.0274	1.0274	1.0275	1.0272	1.0273	1.0273	1.0269	1.0269	1.0271	1.0271	---	1.0286*	1.0258*
1940	1.0267	1.0269	1.0268	1.0270	1.0270	1.0267	1.0269	1.0269	1.0253	1.0260	1.0263	1.0265	1.0274	1.0229
1941	263	---	---	264	267	271	266	269	261	265	262	---	275*	255*
1942	266	270	272	269	267	269	271	279	274	278	---	---	287*	255*
1943	270	268	271	272	272	271	272	265	256	260	275	267	280	252
1944	261	263	---	270	267	272	271	266	266	259	264	---	278*	250*
1945	266	267	270	274	276	274	268	265	257	256	262	266	283	244
1946	262	266	270	274	277	278	269	274	266	263	259	268	303	252
1947	262	265	265	264	262	262	256	256	255	241	257	259	273	221
1948	262	261	265	265	266	268	272	271	---	249	261	---	275*	217*
1949	257	266	265	269	267	267	266	264	257	260	257	262	272	234
1950	252	264	269	269	274	274	---	262	266	---	---	---	278*	234*
1951	265	---	268	268	272	272	270	259	257	262	---	---	278*	243*
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1955	---	---	268	271	276	272	265	267	266	263	267	---	281*	254*
1956	270	270	274	277	275	276	277	275	262	265	270	272	283	255
Mean	²⁴⁷ 1.0263	²⁴⁸ 1.0266	²⁴⁹ 1.0269	²⁵⁰ 1.0270	²⁵¹ 1.0271	²⁵² 1.0271	²⁵³ 1.0269	²⁵⁴ 1.0267	²⁵⁵ 1.0261	²⁵⁶ 1.0258	²⁵⁷ 1.0263	²⁵⁸ 1.0266	²⁵⁹ 1.0266	²⁶⁰ 1.0266
Density	35.4	35.8	36.2	36.4	36.4	36.4	36.2	35.9	35.1	34.8	35.4	35.8	35.8	35.8
Salinity	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Max.	1.0283	1.0282	1.0283	1.0285	1.0290	1.0303	1.0288	1.0288	1.0283	1.0281	1.0286	1.0274	1.0303	---
Mean Max.	1.0271	1.0272	1.0275	1.0275	1.0277	1.0278	1.0276	1.0274	1.0269	1.0267	1.0270	1.0268	---	---
Mean Min.	1.0255	1.0261	1.0261	1.0264	1.0264	1.0263	1.0261	1.0260	1.0252	1.0249	1.0251	1.0254	---	---
Min.	1.0234	1.0254	1.0238	1.0257	1.0255	1.0247	1.0243	1.0229	1.0221	1.0217	1.0242	---	---	1.0217
1926	1.0272	1.0270	1.0274	1.0275	1.0272	1.0268	1.0268	1.0261	1.0264	1.0261	1.0261	1.0268	1.0279	1.0233
1927	270	271	274	276	278	276	275	273	265	270	275	272	284	235
1928	275	273	268	272	271	275	266	261	256	265	264	267	280	237
1929	261	268	271	274	277	272	269	274	270	258	258	268	283	242

KEY WEST, FLA.

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
KEY WEST, FLA. - Continued															
1930	1.0258	1.0257	1.0266	1.0266	1.0271	1.0253	1.0262	1.0265	1.0266	1.0267	1.0270	1.0264	1.0264	1.0279	1.0238
1931	257	259	264	264	264	269	267	269	263	260	264	266	263	274	246
1932	248	266	271	274	274	269	275	272	270	266	272	270	269	282	206
1933	270	271	273	272	273	271	277	275	275	254	255	255	268	285	214
1934	262	268	269	273	272	272	273	272	269	268	272	272	270	282	256
1935	270	271	275	274	282	284	277	278	264	263	266	266	272	289	253
1936	265	261	258	268	275	264	268	267	268	270	275	268	267	279	246
1937	271	270	270	272	269	278	274	272	269	267	278	274	272	289	247
1938	270	276	275	277	277	274	274	276	273	278	275	274	275	285	263
1939	272	274	277	274	278	272	277	274	269	261	275	273	273	289	242
1940	267	268	270	269	278	280	280	276	264	270	---	---	---	286*	253*
1946	---	---	275	277	275	269	270	274	272	272	273	276	---	286*	233*
1947	277	272	274	278	277	274	269	271	274	261	270	270	272	287	254
1948	268	261	268	270	272	280	278	279	269	263	270	269	271	286	255
1949	272	273	277	277	281	277	273	271	266	263	269	271	272	285	251
1950	270	271	272	270	275	277	273	270	269	263	272	273	271	281	257
1951	273	267	268	268	271	270	271	267	269	266	270	271	269	280	249
1952	270	264	271	277	273	270	267	270	271	268	269	271	270	283	243
1953	---	---	---	277	---	---	272	276	265	260	266	266	---	280*	251*
1954	262	266	262	270	272	269	271	274	270	269	262	261	267	276	241
1955	266	272	276	279	282	279	276	279	276	275	279	277	276	286	258
1956	274	274	280	280	281	279	279	278	272	274	280	279	278	288	266
Mean	247	247	247	247	247	247	247	247	247	247	247	247	247	247	247
Density	1.0268	1.0268	1.0273	1.0273	1.0275	1.0273	1.0272	1.0272	1.0268	1.0265	1.0270	1.0269	1.0270	1.0270	1.0270
Salinity	36.0	36.0	36.4	36.7	37.0	36.7	36.6	36.6	36.0	35.7	36.3	36.2	36.3	36.3	36.3

Max.	1.0279	1.0280	1.0285	1.0287	1.0288	1.0289	1.0284	1.0284	1.0280	1.0284	1.0289	1.0286
Mean Max.	1.0272	1.0273	1.0276	1.0278	1.0280	1.0280	1.0277	1.0274	1.0274	1.0273	1.0276	1.0274
Mean Min.	1.0261	1.0263	1.0266	1.0267	1.0267	1.0265	1.0264	1.0265	1.0261	1.0254	1.0262	1.0263
Min.	1.0206	1.0245	1.0246	1.0248	1.0247	1.0238	1.0233	1.0233	1.0250	1.0214	1.0246	1.0242
ST. PETERSBURG, FLA.												
1947	1.0218	1.0216	1.0209	1.0197	1.0204	1.0208	1.0187	1.0155	1.0141	---	---	---
1948	176	158	172	179	194	207	205	177	167	1.0165	1.0184	1.0187
1949	194	197	207	215	222	228	233	204	145	143	167	176
1950	186	199	204	210	218	223	218	201	168	173	185	191
1951	186	189	196	200	205	222	221	211	203	191	201	205
1952	209	211	209	200	208	218	---	---	---	---	---	199
1953	198	192	196	199	205	215	219	196	161	143	168	161
1954	160	168	183	188	198	207	204	182	182	178	188	194
1955	192	197	205	212	222	233	238	209	181	189	203	204
1956	216	217	224	236	240	257	255	253	245	235	239	240
Mean Density	1.0194	1.0194	1.0200	1.0204	1.0212	1.0222	1.0220	1.0199	1.0177	1.0177	1.0192	1.0195
Salinity	26.4	26.4	27.2	27.7	28.8	30.1	29.8	27.1	24.2	24.2	26.1	26.5
Max.	1.0227	1.0224	1.0230	1.0241	1.0252	1.0261	1.0260	1.0261	1.0254	1.0245	1.0245	1.0244
Mean Max.	1.0202	1.0200	1.0208	1.0209	1.0220	1.0229	1.0227	1.0214	1.0191	1.0190	1.0199	1.0201
Mean Min.	1.0185	1.0187	1.0193	1.0198	1.0204	1.0207	1.0209	1.0182	1.0162	1.0165	1.0183	1.0190
Min.	1.0156	1.0146	1.0159	1.0166	1.0188	1.0140	1.0170	1.0134	1.0129	1.0125	1.0155	1.0155
CEDAR KEYS, FLA.												
1922	1.0204	1.0214	1.0208	1.0213	1.0211	1.0206	1.0198	1.0192	1.0191	1.0206	1.0201	1.0207
1923	208	203	208	212	186	212	192	175	195	184	200	218
1924	207	188	160	160	171	172	177	189	205	196	206	215
1925	214	184	166	179	196	211	202	193	219	211	207	198
1926	201	160	152	151	166	188	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---	---	---	---
1944	---	---	---	---	212	204	200	209	213	180	193	181

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
CEDAR KEYS, FLA. - Continued															
1945	1.0194	1.0192	1.0207	1.0224	1.0200	1.0197	1.0214	1.0199	1.0181	1.0190	1.0205	1.0186	1.0199	1.0237	1.0138
1946	181	184	177	153	189	201	198	178	198	196	220	215	191	230	106
1947	223	186	180	184	180	209	199	193	186	181	181	175	190	235	119
1948	162	188	134	150	158	171	199	170	184	192	200	204	176	220	092
1949	167	186	175	168	187	203	205	169	156	170	185	200	181	226	099
1950	200	209	208	182	219	222	193	190	144	172	183	190	193	251	066
1951	202	205	207	170	185	190	201	199	188	196	191	181	193	235	102
---													---	244*	106*
1954	188	176	180	204	205	222	203	209	225	207	219	---	---	253	180
1955	212	213	241	234	225	227	233	226	221	227	225	221	225	255	175
1956	227	237	234	210	212	228	212	224	245	225	220	226	225		
Mean	1.0199	1.0195	1.0189	1.0186	1.0194	1.0204	1.0202	1.0194	1.0197	1.0196	1.0202	1.0201	1.0197	1.0255	1.0066
Density	27.1	26.5	25.8	25.4	26.4	27.7	27.5	26.4	26.8	26.7	27.5	27.3	26.8		
Salinity															
Max.	1.0247	1.0251	1.0254	1.0251	1.0252	1.0253	1.0242	1.0248	1.0254	1.0255	1.0241	1.0243			
Mean Max.	1.0219	1.0218	1.0213	1.0214	1.0219	1.0223	1.0221	1.0215	1.0218	1.0219	1.0221	1.0219			
Mean Min.	1.0172	1.0157	1.0152	1.0152	1.0158	1.0181	1.0179	1.0168	1.0169	1.0159	1.0180	1.0183			
Min.	1.0119	1.0095	1.0092	1.0102	1.0111	1.0139	1.0155	1.0120	1.0066	1.0109	1.0128	1.0150			
PENSACOLA, FLA.															
1924	1.0113	1.0061	1.0095	1.0098	1.0104	1.0088	1.0099	1.0122	1.0169	1.0180	1.0196	1.0177	1.0125	1.0227	1.0010
1925	078	049	111	154	175	181	175	193	206	203	180	174	157	228	001
1926	110	081	084	037	097	120	141	107	056	063	130	129	096	202	010
1927	143	108	066	086	147	136	125	110	162	163	176	154	131	218	017
1928	125	140	098	077	052	040	047	097	136	143	176	165	108	215	010
1929	126	130	026	084	094	117	090	110	134	107	107	075	100	189	000

1930	112	079	103	112	150	176	181	161	163	153	117	127	136	215	017
1931	117	131	127	107	135	166	164	141	166	186	198	170	151	228	018
1932	111	131	137	145	142	141	154	149	159	167	171	146	146	216	027
1933	107	103	083	029	057	151	111	091	153	191	201	188	122	229	011
1934	194	189	130	140	150	140	155	121	152	096	151	153	148	237	029
1935	155	154	075	013	070	109	131	102	124	176	191	174	128	229	007
1936	047	065	090	083	107	132	124	072	126	135	127	115	102	215	004
1937	109	108	090	050	035	067	105	102	092	120	107	099	090	158	013
1938	104	105	086	045	087	112	110	075	138	105	142	182	108	239	014
1939	---	---	060	095	---	082	095	066	068	108	175	175	---	212*	018*
1940	182	113	070	102	109	106	039	093	154	176	176	157	123	220	009
1941	121	154	125	085	174	181	119	111	159	174	188	156	146	217	019
1942	106	132	061	055	093	109	070	082	123	145	181	172	111	217	003
1943	150	150	072	059	118	123	118	124	160	191	163	179	134	216	002
1944	131	119	073	014	032	102	144	092	059	134	176	128	099	230	0.9997
1945	134	108	105	108	088	122	144	105	147	171	175	172	132	211	1.0047
1946	080	090	070	042	057	054	066	031	104	127	160	156	086	196	0.9997
1947	096	123	063	022	062	056	114	150	140	171	150	102	104	217	0.9997
1948	132	099	038	049	125	138	142	116	148	171	144	048	112	206	0.9996
1949	074	089	091	080	081	102	076	084	142	179	182	168	112	214	1.0018
1950	162	167	140	087	098	148	148	125	---	---	---	---	---	214*	037*
1951	---	---	144	081	130	144	137	167	166	187	173	184	---	229*	027*
1952	159	144	109	068	100	132	171	174	182	210	219	199	156	245	012
1953	151	127	097	100	045	130	142	146	183	144	175	073	126	253	006
1954	072	138	113	105	172	195	191	203	215	219	219	206	171	243	021
1955	196	152	170	114	115	133	169	123	180	198	204	207	163	236	002
1956	212	149	094	118	154	184	135	156	178	129	186	169	155	240	037
Mean	1.0126	1.0119	1.0094	1.0080	1.0105	1.0125	1.0125	1.0118	1.0145	1.0157	1.0169	1.0152	1.0126	1.0253	
Density	17.5	16.6	13.3	11.5	14.8	17.4	17.4	16.5	20.0	21.6	23.1	20.9	17.5		
Salinity	1.0253	1.0231	1.0237	1.0216	1.0222	1.0215	1.0225	1.0229	1.0238	1.0242	1.0245	1.0243			
Max.	1.0185	1.0171	1.0160	1.0140	1.0162	1.0173	1.0174	1.0172	1.0184	1.0198	1.0208	1.0200			
Mean Max.	1.0059	1.0065	1.0038	1.0037	1.0057	1.0079	1.0077	1.0073	1.0101	1.0115	1.0128	1.0095			
Mean Min.	1.0001	1.0006	0.9997	0.9997	1.0002	1.0013	1.0021	0.9997	1.0014	1.0027	1.0032	0.9996		0.9996	
Min.															

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued

Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.	
1949	---	---	---	---	1.0170	1.0178	1.0185	1.0204	1.0203	1.0208	1.0232	1.0238	---	1.0255*	1.0121*	
1950	1.0164	1.0119	---	---	---	---	---	158	199	190	239	221	---	256*	0.9984*	
1951	196	175	1.0151	1.0187	163	191	156	187	200	219	241	214	1.0190	269	1.0010	
1952	180	207	199	194	---	---	204	229	228	247	259	257	---	273*	107*	
1953	254	220	167	169	157	193	243	239	209	248	258	249	217	289	---	
1954	240	232	246	213	195	196	240	244	---	---	250	260	---	268*	118*	
1955	241	215	216	165	167	222	204	227	---	245	254	245	---	264*	109*	
1956	256	222	186	200	185	227	244	236	235	235	247	249	227	265	126	
Mean Density	1.0219	1.0199	1.0194	1.0188	1.0173	1.0201	1.0211	1.0216	1.0212	1.0227	1.0248	1.0242	1.0211	1.0289	0.9984	
Salinity	29.7	27.1	26.4	25.6	23.7	27.3	28.6	29.3	28.8	30.7	33.5	32.7	28.6			
Max.	1.0282	1.0270	1.0269	1.0260	1.0256	1.0284	1.0276	1.0289	1.0254	1.0266	1.0273	1.0270				
Mean Max.	1.0256	1.0249	1.0244	1.0239	1.0230	1.0251	1.0241	1.0247	1.0234	1.0249	1.0262	1.0260				
Mean Min.	1.0168	1.0111	1.0134	1.0131	1.0119	1.0162	1.0154	1.0180	1.0190	1.0201	1.0219	1.0191				
Min.	1.0081	0.9984	1.0012	1.0099	1.0097	1.0133	1.0021	1.0113	1.0170	1.0135	1.0156	1.0121				
EUGENE ISLAND, LA.																
1944	---	---	---	---	1.0040	1.0001	0.9998	1.0010	1.0055	1.0079	1.0062	1.0073	1.0034	---	1.0221*	0.9991*
1945	1.0008	1.0022	1.0002	0.9997	0.9997	1.0003	0.9997	1.0012	1.0045	1.0026	1.0043	1.0018	1.0014	1.0209	0.9989	
1946	1.0039	0.9998	0.9998	1.0001	1.0007	1.0001	1.0004	1.0027	1.0085	1.0054	1.0064	1.0018	1.0025	1.0221	0.9992	
1947	1.0001	1.0000	1.0026	1.0018	1.0000	1.0006	1.0005	1.0041	1.0033	1.0061	1.0052	1.0041	1.0024	1.0220	0.9986	
1948	1.0013	1.0006	1.0009	1.0016	1.0003	1.0019	1.0013	1.0034	1.0064	1.0072	1.0071	1.0007	1.0027	1.0207	0.9987	
1949	1.0003	0.9997	1.0002	0.9998	1.0014	1.0011	1.0009	1.0006	1.0072	1.0078	1.0019	1.0076	1.0024	1.0216	0.9988	
1950	1.0033	1.0007	0.9999	0.9996	0.9999	1.0002	1.0002	1.0008	1.0007	1.0025	1.0030	1.0009	1.0010	1.0207	0.9973	
1951	1.0002	0.9996	1.0002	0.9996	0.9998	1.0001	1.0001	1.0015	1.0021	1.0042	1.0015	1.0017	1.0009	1.0159	0.9986	

1952	1.0011	1.0004	1.0006	1.0000	1.0002	1.0006	1.0026	1.0031	1.0062	1.0064	---	1.0047	---	1.0185*0.9977*
1953	1.0035	1.0033	1.0019	1.0030	1.0023	1.0012	1.0010	1.0039	1.0045	1.0082	1.0083	1.0068	1.0040	1.0231 0.9986
1954	1.0076	1.0044	1.0055	---	1.0030	1.0008	1.0033	1.0060	1.0113	1.0127	---	---	---	1.0237*0.9994*
1955	---	---	1.0038	1.0013	1.0016	1.0012	1.0012	1.0026	1.0094	---	1.0049	1.0051	---	1.0214*0.9981*
1956	---	---	1.0002	1.0012	1.0012	1.0013	1.0012	1.0026	1.0066	1.0076	1.0085	1.0044	---	1.0208*0.9985*
Mean	1.0022	1.0011	1.0013	1.0010	1.0008	1.0007	1.0010	1.0029	1.0060	1.0064	1.0053	1.0036	1.0027	
Density	3.9	2.5	2.8	2.4	2.1	2.0	2.4	4.8	8.9	9.4	8.0	5.8	4.6	
Salinity														
Max.	1.0221	1.0206	1.0214	1.0220	1.0198	1.0139	1.0186	1.0221	1.0221	1.0237	1.0211	1.0231	1.0237	
Mean Max.	1.0121	1.0095	1.0121	1.0106	1.0085	1.0066	1.0079	1.0127	1.0166	1.0177	1.0182	1.0156		
Mean Min.	0.9993	0.9990	0.9991	0.9991	0.9993	0.9996	0.9995	0.9997	1.0002	1.0000	0.9996	0.9991		
Min.	0.9990	0.9973	0.9983	0.9981	0.9988	0.9992	0.9985	0.9983	0.9985	0.9986	0.9988	0.9977		0.9973
GALVESTON, TEX.														
1922	1.0196	1.0171	1.0171	---	---	1.0074	1.0177	1.0226	1.0204	1.0192	1.0192	1.0197	---	1.0259*1.0020*
1923	207	146	154	1.0063	1.0138	134	143	224	191	175	171	124	1.0156	249 018
1924	090	146	110	121	126	095	186	229	221	192	185	193	158	250 022
1925	200	218	204	199	203	191	228	256	244	---	130	169	---	270* 059*
1926	148	151	123	064	066	137	172	209	---	182	169	161	---	231* 020*
1927	162	117	---	193	115	---	158	201	195	147	178	153	---	245* 041*
1928	155	151	156	159	171	182	192	208	171	168	178	163	171	250 097
1929	141	125	129	110	118	085	121	191	170	---	---	---	---	239* 036*
1930	---	---	162	202	154	130	230	243	234	187	---	155	---	256* 040*
1931	141	136	174	180	188	227	230	235	237	213	211	193	197	282 051
1932	125	065	099	171	149	175	222	234	212	197	206	213	172	299 011
1933	181	167	143	165	153	156	196	176	188	177	194	210	176	242 061
1934	177	127	132	096	163	208	226	241	222	218	212	187	184	263 028
1935	179	148	---	184	084	079	140	206	189	166	164	131	---	248* 022*
1936	171	175	185	200	168	152	179	229	202	191	184	201	186	278 087
1937	163	149	135	151	193	205	230	244	221	208	209	193	192	256 011
1938	151	152	150	134	104	167	220	225	185	212	210	209	177	251 031
1939	196	186	202	182	176	179	189	234	248	228	216	216	204	256 069

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
GALVESTON, TEX. -Continued															
1940	1.0200	1.0217	1.0219	1.0210	1.0202	1.0187	1.0190	1.0219	1.0205	1.0208	1.0178	1.0048	1.0190	1.0246	1.0015
1941	101	119	122	146	125	099	124	206	205	133	114	154	137	259	038
1942	159	182	191	150	078	119	119	195	152	169	179	181	156	231	021
1943	162	191	192	179	192	169	---	---	---	---	181	173	---	264*	052*
1944	155	135	149	168	111	116	210	247	216	191	200	163	172	265	034
1945	114	127	114	068	123	152	156	182	126	128	166	152	134	245	020
1946	132	132	102	155	120	075	149	231	182	160	081	113	136	260	020
1947	118	142	157	151	154	148	188	176	181	203	199	171	166	244	045
1948	172	167	134	145	141	196	215	244	191	200	213	210	186	269	077
1949	191	170	111	128	132	170	188	191	208	116	155	146	159	246	055
1950	118	104	113	140	119	110	175	202	163	156	187	201	149	238	031
1951	198	185	196	203	188	225	225	242	209	183	197	200	204	266	144
1952	195	196	192	152	180	183	176	220	212	202	206	202	193	265	099
1953	214	205	176	163	132	---	182	196	175	192	194	188	---	242*	046*
1954	196	205	228	223	217	221	251	268	246	232	223	243	229	279	123
1955	228	194	186	193	205	214	235	226	198	200	216	215	209	257	137
1956	217	203	197	205	206	221	259	270	250	240	233	224	227	277	152
Mean Density	1.0166	1.0159	1.0158	1.0157	1.0150	1.0157	1.0191	1.0221	1.0202	1.0186	1.0186	1.0178	1.0176	1.0299	1.0111
Salinity	22.7	21.8	21.7	21.6	20.6	21.6	26.0	29.9	27.5	25.4	25.4	24.3	24.1	---	---
Max.	1.0252	1.0241	1.0282	1.0254	1.0264	1.0253	1.0277	1.0299	1.0295	1.0253	1.0247	1.0261	---	---	---
Mean Max.	1.0214	1.0205	1.0211	1.0205	1.0203	1.0212	1.0232	1.0253	1.0235	1.0214	1.0218	1.0215	---	---	---
Mean Min.	1.0106	1.0102	1.0093	1.0095	1.0090	1.0105	1.0142	1.0179	1.0166	1.0153	1.0143	1.0135	---	---	---
Min.	1.0022	1.0015	1.0011	1.0011	1.0021	1.0020	1.0038	1.0094	1.0058	1.0060	1.0020	1.0015	---	---	---
BRAZOSPORT, FREEPORT HARBOR, TEX.															
1955	---	---	---	---	1.0218	1.0222	1.0247	1.0242	1.0204	1.0182	1.0232	1.0215	---	1.0267*	1.0119*

	1.0226	1.0214	1.0214	1.0227	195	243	271	276	255	250	236	213	1.0235	284	125
ROCKPORT, TEX.															
1948	---	1.0159	1.0161	1.0187	1.0193	1.0230	1.0259	1.0283	1.0217	1.0210	1.0221	1.0224	---	1.0305*1.0107*	
1949	1.0225	210	194	182	150	184	196	210	226	175	178	164	1.0191	252	129
1950	158	168	170	182	192	209	---	288	260	251	261	---	---	301*	144*
1951	252	242	242	250	254	---	292	299	269	238	232	223	---	315*	214*
1952	224	231	228	236	247	258	264	279	243	185	187	182	230	298	171
1953	200	198	167	189	197	213	248	276	178	167	152	169	196	292	109
1954	174	194	207	218	231	247	279	298	---	---	---	---	---	305*	155*
Mean															
Density	1.0206	1.0200	1.0196	1.0206	1.0209	1.0224	1.0256	1.0276	1.0232	1.0204	1.0205	1.0192	1.0217		
Salinity	28.0	27.2	26.7	28.0	28.4	30.3	34.5	37.1	31.4	27.7	27.8	26.1	29.4		
Max.														1.0315	
Mean Max.	1.0265	1.0271	1.0251	1.0265	1.0276	1.0272	1.0303	1.0312	1.0315	1.0271	1.0272	1.0242			
Mean Min.	1.0222	1.0225	1.0212	1.0228	1.0226	1.0248	1.0277	1.0295	1.0273	1.0229	1.0224	1.0210			
Min.	1.0190	1.0182	1.0180	1.0192	1.0195	1.0201	1.0226	1.0256	1.0186	1.0182	1.0192	1.0171			1.0107
	1.0144	1.0138	1.0145	1.0147	1.0139	1.0143	1.0138	1.0186	1.0107	1.0109	1.0139	1.0129			
PORT ISABEL, TEX.															
1944	---	---	---	1.0254	1.0246	1.0247	1.0276	1.0266	1.0119	1.0215	1.0248	1.0252	---	1.0290*1.0040*	
1945	1.0244	1.0230	1.0245	248	240	271	284	284	274	216	267	273	1.0256	300	092
1946	243	239	233	257	247	239	278	284	272	216	238	234	248	297	176
1947	234	236	237	245	247	256	282	248	263	253	270	244	251	293	195
1948	252	235	233	---	---	272	274	283	273	---	---	---	---	301*	195*
1949	---	---	---	229	241	266	268	272	252	229	248	254	---	279*	137*
1950	242	241	233	246	267	220	275	279	271	244	275	272	255	310	145
1951	267	258	250	264	262	262	281	279	260	254	264	261	264	291	184
1952	254	263	262	266	276	280	282	283	275	267	277	266	271	295	238
1953	274	276	264	258	252	270	280	272	244	254	244	261	262	296	177
1954	252	257	268	270	274	279	278	276	278	223	250	---	---	289*	131*
1955	---	267	260	263	275	279	271	277	216	234	253	242	---	288*	147*
1956	250	258	259	242	259	279	278	280	277	281	279	274	268	296	187

*Observations for the year are incomplete; extremes are for the months shown.

Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
PORT ISABEL, TEX. -Continued															
Mean Density	1.0251	1.0249	1.0254	1.0257	1.0263	1.0277	1.0276	1.0252	1.0240	1.0258	1.0259	1.0258	1.0257		
Salinity	33.8	33.8	34.2	34.6	35.4	37.2	37.1	34.0	32.4	34.9	34.9	34.8	34.6		
Max.	1.0284	1.0283	1.0280	1.0286	1.0289	1.0296	1.0301	1.0299	1.0293	1.0310	1.0310	1.0300	1.0310		
Mean Max.	1.0264	1.0261	1.0267	1.0272	1.0280	1.0287	1.0287	1.0285	1.0268	1.0276	1.0276	1.0273			
Mean Min.	1.0236	1.0230	1.0238	1.0235	1.0235	1.0265	1.0239	1.0206	1.0195	1.0244	1.0244	1.0244			
Min.	1.0210	1.0146	1.0216	1.0187	1.0179	1.0145	1.0243	1.0089	1.0040	1.0092	1.0221	1.0223			1.0040
VERACRUZ, MEXICO															
1953	1.0266	1.0269	1.0270	1.0265	1.0267	1.0264	1.0252	1.0244	1.0262	1.0262	1.0259	1.0266	1.0262	1.0295	1.0237
1954	269	268	267	266	266	256	226	244	251	249	262	261	257	274	178
1955	266	270	273	271	271	272	218	234	240	242	260	261	256	277	132
1956	262	264	267	266	266	253	230	242	250	258	265	267	258	274	200
Mean Density	1.0266	1.0268	1.0269	1.0268	1.0268	1.0261	1.0232	1.0241	1.0251	1.0253	1.0262	1.0264	1.0259		
Salinity	35.8	36.0	36.2	36.0	36.0	35.1	31.4	32.5	33.8	34.1	35.3	35.5	34.9		
Max.	1.0271	1.0274	1.0284	1.0295	1.0293	1.0276	1.0273	1.0257	1.0274	1.0269	1.0272	1.0271		1.0295	
Mean Max.	1.0269	1.0271	1.0276	1.0279	1.0278	1.0273	1.0257	1.0253	1.0267	1.0264	1.0270	1.0270			
Mean Min.	1.0261	1.0263	1.0263	1.0261	1.0253	1.0244	1.0194	1.0208	1.0223	1.0232	1.0251	1.0251			
Min.	1.0255	1.0259	1.0259	1.0248	1.0240	1.0223	1.0132	1.0178	1.0186	1.0204	1.0246	1.0229			1.0132
COATZACOALCOS (Puerto Mexico), MEXICO															
1946	---	---	---	---	---	---	---	1.0017	1.0011	1.0008	1.0007	1.0004	---	1.0033*	0.9995*
1947	1.0009	1.0018	1.0039	1.0070	1.0065	1.0070	1.0018	006	0.9996	0.9998	012	011	1.0026	252	0.9989
1948	009	013	037	092	119	099	001	025	1.0027	0.9998	006	013	037	264	0.9991
1949	014	037	052	135	163	150	094	081	009	1.0004	014	048	067	273	0.9992

1950	006	028	048	070	143	074	005	000	003	0.9998	014	029	035	269	0.9993
1951	035	028	100	104	142	110	012	006	0.9996	0.9996	0.9999	009	045	268	0.9991
1952	020	060	099	094	067	004	0.9995	0.9994	0.9994	0.9995	1.0005	014	028	263	0.9989
1953	050	064	056	143	190	116	1.0029	1.0005	1.0002	0.9995	001	020	056	270	0.9991
1954	006	021	024	043	065	031	0.9995	001	0.9996	---	006	---	---	284*	0.9992*
1955	---	---	070	117	159	126	1.0019	003	0.9994	0.9996	002	004	---	268*	0.9991*
1956	031	049	067	109	062	0.9999	1.0000	0.9998	0.9998	0.9998	009	003	027	260	0.9991
Mean	1.0020	1.0035	1.0059	1.0098	1.0118	1.0078	1.0017	1.0012	1.0002	0.9999	1.0007	1.0016	1.0038		
Density	3.7	5.6	8.8	13.9	16.5	11.2	3.3	2.6	1.3	0.9	2.0	3.0	6.0		
Salinity														1.0284	
Max.	1.0252	1.0186	1.0268	1.0273	1.0284	1.0268	1.0200	1.0174	1.0055	1.0029	1.0076	1.0194			
Mean Max.	1.0090	1.0103	1.0179	1.0233	1.0238	1.0197	1.0064	1.0037	1.0014	1.0008	1.0030	1.0062			
Mean Min.	0.9998	1.0009	1.0019	1.0035	1.0049	1.0018	1.0000	0.9998	0.9995	0.9992	0.9994	0.9995			
Min.	0.9991	1.0000	1.0000	1.0002	0.9994	0.9993	0.9991	0.9990	0.9989	0.9989	0.9991	0.9991		0.9989	
PROGRESO, MEXICO															
1946	---	---	---	---	---	---	---	1.0280	1.0277	1.0277	1.0276	1.0271	---	1.0288*	1.0268**
1947	1.0272	1.0275	1.0283	1.0289	1.0286	1.0285	1.0283	275	273	270	274	272	1.0278	294	260
1948	270	275	279	282	282	276	274	273	274	274	270	270	275	288	264
1949	269	268	266	282	284	279	279	281	276	270	270	272	275	289	261
1950	277	277	279	---	278	275	276	279	275	279	283	---	---	290*	267*
1951	---	---	281	280	278	278	274	269	267	270	272	271	---	285*	265*
1952	281	279	282	285	282	271	269	268	268	261	262	268	273	290	248
1953	272	273	280	282	280	276	274	273	269	265	265	267	273	287	260
1954	271	274	276	279	286	280	273	271	---	---	279	273	---	292*	263*
1955	276	274	274	279	279	279	273	272	269	269	269	268	273	294	262
1956	267	267	276	282	281	277	274	---	---	274	270	269	---	289*	261*
Mean	1.0273	1.0274	1.0278	1.0282	1.0282	1.0278	1.0275	1.0274	1.0272	1.0271	1.0272	1.0270	1.0275		
Density	36.7	36.8	37.3	37.9	37.9	37.3	37.0	36.8	36.6	36.4	36.6	36.3	37.0		
Salinity														1.0294	
Max.	1.0286	1.0283	1.0291	1.0293	1.0294	1.0294	1.0287	1.0288	1.0280	1.0286	1.0290	1.0280			
Mean Max.	1.0277	1.0278	1.0283	1.0288	1.0286	1.0284	1.0280	1.0279	1.0277	1.0276	1.0277	1.0276			
Mean Min.	1.0268	1.0268	1.0272	1.0276	1.0277	1.0273	1.0271	1.0270	1.0267	1.0265	1.0265	1.0264			
Min.	1.0263	1.0261	1.0263	1.0268	1.0271	1.0267	1.0266	1.0263	1.0261	1.0252	1.0248	1.0251		1.0248	

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued

Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
PUERTO CORTÉS, HONDURAS															
1949	---	---	---	---	---	---	---	---	---	1.0222	1.0219	1.0228	---	1.0264*	1.0142*
1950	1.0236	1.0235	1.0254	1.0257	1.0264	1.0240	1.0220	1.0196	1.0204	174	194	209	1.0224	271	134
1951	249	253	257	258	---	---	---	---	---	---	---	---	---	272*	216*
1952	---	---	---	253	248	235	204	192	181	135	185	178	---	264*	050*
1953	230	---	261	260	265	226	223	205	196	193	180	221	---	278*	070*
1954	206	227	256	256	241	202	190	198	159	139	172	195	203	271	040
1955	---	---	---	260	264	262	238	213	200	195	148	157	---	272*	054*
1956	---	241	247	255	256	189	211	200	184	153	150	187	---	262*	045*
Mean	1.0230	1.0239	1.0255	1.0257	1.0256	1.0226	1.0214	1.0201	1.0187	1.0173	1.0178	1.0196	1.0218	1.0278	1.0040
Density	31.1	32.3	34.4	34.6	34.5	30.6	29.0	27.3	25.5	23.7	24.3	26.7	29.5	---	---
Salinity	1.0269	1.0272	1.0271	1.0272	1.0278	1.0269	1.0266	1.0264	1.0243	1.0253	1.0264	1.0262	---	---	---
Max.	1.0261	1.0260	1.0266	1.0267	1.0266	1.0260	1.0257	1.0251	1.0229	1.0229	1.0237	1.0247	---	---	---
Mean Max.	1.0172	1.0209	1.0234	1.0235	1.0240	1.0151	1.0140	1.0137	1.0122	1.0093	1.0089	1.0100	---	---	---
Mean Min.	1.0146	1.0190	1.0217	1.0216	1.0219	1.0085	1.0104	1.0118	1.0040	1.0045	1.0046	1.0054	---	---	---
Min.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PUERTO CASTILLA, HONDURAS															
1955	---	---	---	---	---	1.0276	---	---	1.0263	1.0256	1.0247	1.0234	---	1.0283*	1.0211*
1956	1.0251	1.0272	1.0276	1.0275	1.0273	269	1.0271	1.0274	267	245	223	257	1.0263	280	196
PUERTO CABEZAS, NICARAGUA															
1949	---	---	---	---	---	---	---	---	---	1.0256	1.0244	1.0246	---	1.0266*	1.0224*
1950	---	1.0249	---	1.0262	1.0261	---	---	---	1.0251	249	229	238	---	269*	222*
1951	1.0243	244	1.0256	263	264	---	---	---	246	248	---	---	---	270*	225*
1952	---	---	---	266	265	---	---	1.0214	250	243	---	---	---	275*	174*
1953	---	---	---	---	---	---	---	---	238	244	235	---	---	261*	197*
1954	238	255	259	259	231	1.0210	1.0173	238	238	235	232	241	1.0234	270	000

	1955	257	247	263	272	269	271	219	234	253	245	217	229	248	284	078	
Mean																	
Density	1.0246	1.0249	1.0259	1.0264	1.0264	1.0258	1.0240	1.0196	1.0229	1.0246	1.0246	1.0231	1.0238	1.0242			
Salinity	33.2	33.6	34.9	35.5	35.5	34.8	32.4	26.7	31.0	33.2	33.2	31.2	32.1	32.7			
Max.	1.0280	1.0262	1.0276	1.0284	1.0284	1.0280	1.0277	1.0260	1.0268	1.0274	1.0273	1.0266	1.0262		1.0284		
Mean Max.	1.0264	1.0260	1.0270	1.0273	1.0272	1.0272	1.0264	1.0256	1.0260	1.0262	1.0261	1.0250	1.0256				
Mean Min.	1.0226	1.0233	1.0239	1.0255	1.0202	1.0202	1.0138	1.0103	1.0149	1.0220	1.0218	1.0209	1.0200				
Min.	1.0217	1.0225	1.0230	1.0251	1.0000	1.0000	1.0017	1.0028	1.0078	1.0197	1.0182	1.0179	1.0116		1.0000		
PUERTO LIMÓN, COSTA RICA																	
1948	---	---	---	---	---	---	---	---	---	---	1.0258	1.0239	1.0253	---	1.0275*	1.0220*	
1949	1.0249	1.0264	1.0266	1.0264	1.0250	1.0246	1.0246	1.0253	1.0256	1.0259	261	221	201	1.0249	275	112	
1950	253	237	255	259	205	205	244	220	236	258	255	229	208	238	271	088	
1951	225	240	245	262	257	---	250	---	255	---	---	---	---	---	273*	136*	
1952	---	---	---	---	---	---	267	---	262	261	249	245	215	---	273*	125*	
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
1955	---	---	249	256	264	264	249	258	262	263	258	224	230	---	279*	126*	
1956	224	254	258	254	232	232	248	225	240	247	254	253	229	243	272	144	
Mean																	
Density	1.0238	1.0249	1.0255	1.0259	1.0242	1.0242	1.0251	1.0239	1.0252	1.0258	1.0256	1.0235	1.0223	1.0246			
Salinity	32.1	33.6	34.4	34.9	32.7	32.7	33.8	32.3	34.0	34.8	34.5	31.8	30.2	33.2			
Max.	1.0270	1.0272	1.0274	1.0274	1.0279	1.0279	1.0275	1.0273	1.0279	1.0275	1.0272	1.0273	1.0275		1.0279		
Mean Max.	1.0263	1.0266	1.0269	1.0271	1.0271	1.0271	1.0268	1.0263	1.0267	1.0270	1.0270	1.0264	1.0259				
Mean Min.	1.0154	1.0185	1.0213	1.0203	1.0181	1.0181	1.0219	1.0185	1.0214	1.0242	1.0210	1.0159	1.0148				
Min.	1.0122	1.0102	1.0156	1.0184	1.0090	1.0090	1.0181	1.0123	1.0128	1.0219	1.0130	1.0112	1.0088		1.0088		
CRISTOBAL, CANAL ZONE																	
1949	---	---	---	---	---	---	---	---	---	1.0206	1.0216	1.0223	1.0190	1.0187	---	1.0245*	1.0131*
1950	1.0212	1.0204	1.0203	1.0207	1.0211	1.0211	1.0226	1.0200	201	---	237	192	---	---	246*	153*	
1951	---	212	209	212	212	212	214	---	204	---	---	208	202	---	234*	167*	
1952	214	223	224	217	---	---	230	216	210	230	234	210	200	---	253*	173*	
1953	200	199	205	217	238	238	234	203	201	206	219	205	---	---	257*	152*	
1954	215	206	211	219	225	225	223	201	198	232	242	209	188	1.0214	272	146	

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
CRISTOBAL, CANAL ZONE -Continued															
Mean Density	1.0210	1.0209	1.0210	1.0214	1.0222	1.0225	1.0205	1.0203	1.0221	1.0231	1.0202	1.0194	1.0212		
Salinity	28.5	28.4	28.5	29.0	30.1	30.4	27.8	27.6	29.9	31.2	27.5	26.4	28.8		
Max.	1.0229	1.0233	1.0240	1.0239	1.0257	1.0251	1.0236	1.0241	1.0253	1.0272	1.0237	1.0229		1.0272	
Mean Max.	1.0224	1.0219	1.0223	1.0230	1.0241	1.0244	1.0222	1.0228	1.0244	1.0251	1.0230	1.0221			
Mean Min.	1.0195	1.0196	1.0191	1.0190	1.0193	1.0200	1.0172	1.0174	1.0196	1.0197	1.0166	1.0155			
Min.	1.0187	1.0186	1.0174	1.0180	1.0179	1.0196	1.0152	1.0159	1.0186	1.0177	1.0131	1.0135			1.0131
FERRY REACH, ST. GEORGES I., BERMUDA															
1954	---	---	1.0271	1.0274	1.0274	1.0272	1.0273	1.0271	1.0272	1.0272	1.0270	1.0270	---	1.0280*	1.0251*
1955	1.0271	1.0272	274	273	273	273	271	272	272	269	270	271	1.0272	276	263
1956	271	272	272	273	274	275	274	273	272	269	271	271	272	277	264
Mean Density	1.0271	1.0272	1.0273	1.0273	1.0274	1.0273	1.0273	1.0272	1.0272	1.0276	1.0270	1.0271	1.0272	1.0280	
Salinity	36.4	36.6	36.6	36.7	36.8	36.7	36.7	36.6	36.6	36.3	36.3	36.4	36.6		
Max.	1.0275	1.0275	1.0276	1.0276	1.0280	1.0277	1.0277	1.0276	1.0274	1.0275	1.0273	1.0274			
Mean Max.	1.0274	1.0275	1.0275	1.0275	1.0277	1.0276	1.0275	1.0275	1.0273	1.0273	1.0273	1.0273			
Mean Min.	1.0268	1.0270	1.0268	1.0271	1.0271	1.0263	1.0267	1.0269	1.0267	1.0266	1.0266	1.0269			
Min.	1.0268	1.0270	1.0265	1.0269	1.0268	1.0251	1.0264	1.0268	1.0265	1.0263	1.0266	1.0268			1.0251
HABANA, CUBA															
1947	---	---	1.0254	1.0255	1.0257	1.0255	1.0252	1.0260	1.0243	1.0233	1.0252	1.0254	---	1.0269*	1.0185*
1948	1.0250	1.0258	260	255	254	261	261	258	262	272	255	257	1.0259	303	225
1949	260	263	262	258	264	252	255	256	258	253	257	258	258	279	190

1950	264	260	261	260	258	262	261	250	242	229	249	256	254	272	137
1951	255	256	260	250	261	263	242	246	254	245	261	260	254	283	156
1952	267	260	265	268	250	262	264	256	257	226	252	253	257	284	154
1953	248	262	263	263	259	234	248	255	232	212	241	256	248	273	122
1954	253	256	252	258	231	242	247	256	247	247	251	256	250	272	160
1955	260	258	261	264	259	256	258	256	251	248	256	249	256	269	221
1956	255	260	257	258	252	252	253	253	245	242	249	257	253	265	168
Mean	1.0257	1.0259	1.0260	1.0259	1.0254	1.0254	1.0254	1.0255	1.0249	1.0241	1.0252	1.0256	1.0254		
Density	34.6	34.9	35.0	34.9	34.2	34.2	34.2	34.4	33.6	32.5	34.0	34.5	34.2		
Salinity														1.0303	
Max.	1.0278	1.0278	1.0279	1.0284	1.0276	1.0281	1.0283	1.0277	1.0287	1.0303	1.0281	1.0272			
Mean Max.	1.0270	1.0270	1.0271	1.0269	1.0269	1.0268	1.0269	1.0267	1.0267	1.0266	1.0268	1.0268			
Mean Min.	1.0226	1.0240	1.0238	1.0232	1.0216	1.0218	1.0222	1.0221	1.0203	1.0183	1.0214	1.0234			
Min.	1.0132	1.0226	1.0221	1.0175	1.0154	1.0124	1.0168	1.0163	1.0133	1.0122	1.0151	1.0187			1.0122
GIBARA, CUBA															
1949	---	---	---	1.0275	---	---	---	---	---	---	1.0229	1.0235	---	1.0282	*1.0037*
1950	1.0236	1.0251	---	---	---	1.0260	1.0264	1.0262	1.0243	1.0236	202	248	---	273	*0.9993*
1951	259	259	1.0262	---	---	---	---	---	---	251	231	254	---	273	*1.0154*
1952	260	---	---	---	---	---	249	266	261	245	234	250	---	293	*0.111*
1953	261	262	265	268	1.0270	268	257	261	261	262	258	255	1.0262	275	198
1954	265	256	259	261	262	250	258	260	262	254	239	243	256	274	146
1955	257	245	253	264	264	263	267	271	253	250	257	263	259	280	190
1956	265	268	264	266	270	260	261	269	273	270	244	245	263	281	101
Mean	1.0258	1.0257	1.0261	1.0267	1.0266	1.0260	1.0259	1.0265	1.0259	1.0253	1.0237	1.0249	1.0258		
Density	34.8	34.6	35.1	35.9	35.8	35.0	34.9	35.7	34.9	34.1	32.0	33.6	34.8		
Salinity														1.0293	
Max.	1.0273	1.0273	1.0273	1.0281	1.0281	1.0273	1.0275	1.0293	1.0276	1.0278	1.0282	1.0275			
Mean Max.	1.0270	1.0268	1.0271	1.0273	1.0275	1.0270	1.0272	1.0276	1.0270	1.0271	1.0269	1.0268			
Mean Min.	1.0237	1.0230	1.0245	1.0259	1.0255	1.0237	1.0233	1.0246	1.0226	1.0157	1.0116	1.0204			
Min.	1.0206	1.0195	1.0230	1.0247	1.0238	1.0219	1.0187	1.0227	1.0189	1.0011	0.9993	1.0150			0.9993

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - *Continued*
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
GUANTÁNAMO BAY, CUBA															
1947	---	---	---	---	1.0270	1.0268	1.0269	1.0273	1.0260	1.0262	1.0271	1.0270	---	1.0280*	1.0203*
1948	1.0271	1.0272	1.0274	1.0277	270	219	271	274	266	260	265	266	1.0265	282	112
1949	270	269	274	274	275	272	274	277	274	255	268	266	271	283	205
1950	269	273	275	276	278	279	277	277	269	258	250	264	270	285	233
1951	269	273	276	281	273	274	278	277	277	274	275	274	275	291	252
1952	276	280	281	280	276	271	275	278	274	278	276	277	277	291	245
1953	274	278	280	282	281	274	274	274	273	263	270	271	274	292	238
1954	270	272	270	274	263	269	273	275	248	257	258	264	266	281	156
1955	267	272	---	---	---	---	273	271	266	231	261	264	---	277*	167*
1956	---	270	270	274	275	269	273	277	275	241	258	264	---	280*	147*
Mean Density	1.0271	1.0273	1.0275	1.0277	1.0273	1.0266	1.0274	1.0275	1.0268	1.0258	1.0265	1.0268	1.0270		
Salinity	36.4	36.7	37.0	37.2	36.7	35.8	36.8	37.0	36.0	34.8	35.7	36.0	36.3		
Max.	1.0282	1.0284	1.0288	1.0292	1.0291	1.0283	1.0283	1.0285	1.0288	1.0285	1.0282	1.0280		1.0292	
Mean Max.	1.0277	1.0278	1.0280	1.0284	1.0283	1.0275	1.0279	1.0280	1.0278	1.0274	1.0274	1.0274			
Mean Min.	1.0265	1.0268	1.0269	1.0268	1.0258	1.0249	1.0266	1.0269	1.0246	1.0222	1.0253	1.0261			
Min.	1.0261	1.0264	1.0255	1.0245	1.0211	1.0112	1.0261	1.0261	1.0156	1.0147	1.0230	1.0251			1.0112
CASILDA, CUBA															
1949	---	---	---	---	1.0283	---	1.0272	1.0273	1.0259	1.0268	1.0280	1.0286	---	1.0290*	1.0242*
1950	1.0284	1.0284	1.0285	1.0285	291	1.0293	290	291	---	---	263	279	---	301*	243*
1951	282	285	286	287	288	290	284	287	282	216	---	---	---	299*	107*
1952	---	---	---	---	281	278	268	266	265	259	265	279	---	287*	173*
1953	281	277	282	285	288	210	233	257	261	229	262	272	1.0261	295	107
1954	277	276	279	286	284	260	271	276	267	258	269	276	273	294	251
1955	278	276	279	284	281	257	255	252	249	254	263	270	266	292	219
1956	273	276	279	281	282	276	279	278	280	280	280	278	278	290	266

Mean	1.0279	1.0279	1.0285	1.0266	1.0269	1.0272	1.0266	1.0252	1.0269	1.0277	1.0273
Density	37.5	37.5	38.2	35.8	36.2	36.6	35.8	34.0	36.2	37.2	36.7
Salinity											
Max.	1.0288	1.0299	1.0298	1.0301	1.0296	1.0295	1.0290	1.0295	1.0290	1.0289	1.0301
Mean Max.	1.0283	1.0284	1.0291	1.0278	1.0278	1.0280	1.0275	1.0275	1.0277	1.0283	
Mean Min.	1.0273	1.0273	1.0278	1.0242	1.0258	1.0260	1.0252	1.0202	1.0259	1.0270	
Min.	1.0264	1.0264	1.0274	1.0125	1.0191	1.0224	1.0230	1.0107	1.0243	1.0259	1.0107
COLOMBO, ISLA DE PINOS, CUBA											
1953	---	---	---	---	---	---	---	1.0234	1.0255	1.0266	---
1954	1.0276	---	1.0268	1.0239	---	---	1.0256	---	---	---	1.0283*1.0229*
1955	---	---	---	---	1.0273	1.0269	265	262	267	---	287* 223*
1956	283	1.0285	---	274	273	286	283	272	283	---	278* 248*
											300* 265*
PORT ROYAL, JAMAICA											
1954	---	---	1.0264	1.0243	1.0262	1.0266	1.0261	1.0251	1.0238	1.0240	1.0263
1955	1.0265	1.0258	267	268	255	257	264	256	240	261	259
1956	264	263	264	265	256	261	259	261	243	249	256
Mean	1.0264	1.0260	1.0265	1.0259	1.0258	1.0261	1.0261	1.0256	1.0240	1.0250	1.0258
Density	35.5	35.0	35.7	34.9	34.8	35.1	35.1	34.5	32.4	33.7	34.8
Salinity											
Max.	1.0268	1.0267	1.0268	1.0271	1.0273	1.0271	1.0271	1.0269	1.0269	1.0266	1.0267
Mean Max.	1.0268	1.0267	1.0268	1.0270	1.0271	1.0270	1.0271	1.0268	1.0266	1.0262	1.0265
Mean Min.	1.0256	1.0238	1.0260	1.0218	1.0200	1.0228	1.0239	1.0234	1.0202	1.0230	1.0241
Min.	1.0256	1.0216	1.0257	1.0138	1.0154	1.0213	1.0228	1.0225	1.0198	1.0219	1.0230
											1.0138
PORT-AU-PRINCE, HAITI											
1949	---	---	---	1.0270	1.0271	1.0270	---	1.0269	1.0268	1.0264	---
1950	1.0266	1.0268	1.0269	---	271	272	271	1.0270	270	265	265
1951	267	269	269	1.0269	268	270	271	268	268	266	268
1952	269	271	270	269	268	271	271	270	268	269	270
1953	269	271	271	270	271	269	270	270	268	267	268
1954	267	267	270	270	271	270	268	268	268	265	266
											275* 257*
											275 262
											1.0268
											270
											269
											275 261
											275 260

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued

Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.	
PORT-AU-PRINCE, HAITI -Continued																
1955	1.0268	1.0269	1.0269	1.0268	1.0267	1.0265	1.0266	1.0266	1.0267	1.0267	1.0266	1.0266	1.0265	1.0267	1.0274	1.0262
1956	267	267	268	266	263	266	271	270	277	270	271	272	269	283	252	
Mean Density	36.0	36.2	36.2	35.2	36.2	36.2	36.3	36.2	36.3	36.2	35.9	35.9	36.2			
Salinity																
Max.	1.0272	1.0275	1.0276	1.0275	1.0275	1.0275	1.0277	1.0274	1.0283	1.0283	1.0274	1.0276		1.0283		
Mean Max.	1.0271	1.0272	1.0272	1.0273	1.0272	1.0273	1.0273	1.0272	1.0274	1.0273	1.0270	1.0270				
Mean Min.	1.0265	1.0265	1.0266	1.0264	1.0264	1.0265	1.0267	1.0266	1.0262	1.0263	1.0263	1.0265				
Min.	1.0262	1.0260	1.0261	1.0252	1.0253	1.0256	1.0263	1.0263	1.0237	1.0259	1.0257	1.0262			1.0237	
BARAHONA, DOMINICAN REPUBLIC																
1955	1.0250	1.0250	1.0251	1.0254	1.0255	1.0256	1.0257	1.0254	1.0244	1.0234	1.0244	1.0250	1.0250	1.0275	1.0202	
1956	256	254	256	258	258	255	255	258	254	249	246	254	254	266	147	
Mean Density	34.1	34.0	34.2	34.5	34.5	34.5	34.5	34.5	33.6	32.7	33.1	34.0	34.0			
Salinity																
Max.	1.0269	1.0261	1.0262	1.0262	1.0266	1.0275	1.0267	1.0263	1.0259	1.0262	1.0259	1.0260		1.0275		
Mean Max.	1.0264	1.0260	1.0261	1.0262	1.0264	1.0270	1.0264	1.0263	1.0258	1.0258	1.0258	1.0260				
Mean Min.	1.0243	1.0240	1.0242	1.0242	1.0241	1.0242	1.0247	1.0244	1.0236	1.0174	1.0206	1.0236				
Min.	1.0237	1.0236	1.0236	1.0233	1.0234	1.0240	1.0245	1.0238	1.0224	1.0147	1.0186	1.0233			1.0147	
CIUDAD TRUJILLO, DOMINICAN REPUBLIC																
1949	---	---	---	1.0258	1.0240	1.0249	1.0241	1.0233	1.0203	1.0213	1.0237	1.0253	---	1.0268*	1.0080*	
1950	1.0256	1.0246	1.0253	247	239	242	247	243	237	227	245	252	1.0244	273	125	
1951	256	220	209	197	090	099	087	126	118	140	149	135	152	266	021	
1952	201	208	215	151	135	142	086	143	119	118	176	210	159	247	020	
1953	198	184	245	234	---	066	060	---	---	---	---	---	---	264*	032*	

Mean Density Salinity	1.0228 30.8	1.0214 29.0	1.0230 31.1	1.0217 29.4	1.0176 24.1	1.0160 22.0	1.0144 19.9	1.0186 25.4	1.0169 23.1	1.0174 23.8	1.0202 27.5	1.0212 28.8	1.0193 26.5	
Max.	1.0266	1.0264	1.0266	1.0266	1.0268	1.0266	1.0269	1.0273	1.0257	1.0257	1.0270	1.0262	1.0273	
Mean Max.	1.0252	1.0256	1.0257	1.0254	1.0248	1.0214	1.0202	1.0244	1.0225	1.0229	1.0249	1.0245		
Mean Min.	1.0179	1.0127	1.0185	1.0157	1.0109	1.0097	1.0087	1.0102	1.0087	1.0077	1.0111	1.0153		
Min.	1.0080	1.0046	1.0161	1.0038	1.0021	1.0030	1.0025	1.0035	1.0020	1.0030	1.0054	1.0034	1.0020	
PUERTO PLATA, DOMINICAN REPUBLIC														
1949	---	---	---	---	1.0271	1.0271	1.0272	1.0273	1.0270	1.0270	1.0270	1.0266	---	1.0280*1.0252*
1950	1.0260	1.0250	1.0261	1.0266	267	267	268	269	269	269	266	253	274	222
1951	260	263	268	266	260	266	268	269	270	271	265	260	274	219
1952	262	---	---	---	---	268	269	270	269	270	267	262	273*	234*
1953	255	265	269	268	269	268	269	269	271	271	261	256	274	172
1954	263	257	263	267	266	269	270	269	270	271	271	262	275	197
1955	263	257	268	265	265	262	268	269	264	265	267	261	276	181
1956	257	254	246	257	267	267	269	270	270	271	269	264	275	137
Mean Density Salinity	1.0260 35.0	1.0258 34.8	1.0262 35.3	1.0265 35.7	1.0266 35.8	1.0267 35.9	1.0269 36.2	1.0270 36.3	1.0269 36.2	1.0270 36.3	1.0267 35.9	1.0260 35.0	1.0265 35.7	
Max.	1.0271	1.0274	1.0274	1.0273	1.0276	1.0280	1.0276	1.0276	1.0280	1.0275	1.0274	1.0275	1.0280	
Mean Max.	1.0269	1.0268	1.0270	1.0271	1.0272	1.0272	1.0273	1.0273	1.0274	1.0273	1.0272	1.0270		
Mean Min.	1.0234	1.0234	1.0238	1.0249	1.0251	1.0249	1.0264	1.0265	1.0264	1.0264	1.0248	1.0224		
Min.	1.0205	1.0209	1.0137	1.0215	1.0233	1.0181	1.0258	1.0259	1.0245	1.0245	1.0213	1.0172	1.0137	
ST. LUCIA (Castries), B.W.I.														
1955	---	---	---	1.0262	1.0264	1.0262	1.0253	1.0246	1.0253	1.0255	1.0252	1.0262	---	1.0268*1.0213*
1956	1.0264	1.0267	1.0264	259	264	263	257	257	258	260	260	266	1.0262	216

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
ST. LUCIA (Vieux Fort), B.W.I.															
1950	1.0265	1.0264	1.0261	1.0264	1.0265	1.0259	1.0251	1.0247	1.0247	1.0258	1.0260	1.0262	1.0259	1.0270	1.0231
1951	267	268	266	269	271	266	268	261	259	265	267	267	266	281	245
1952	275	269	269	273	266	263	256	261	249	256	262	264	264	288	173
1953	263	268	266	257	260	263	264	262	257	262	263	263	262	276	239
1954	267	270	267	267	256	260	256	259	261	---	261	263	---	276*	244*
Mean															
Density	1.0267	1.0268	1.0266	1.0266	1.0264	1.0262	1.0259	1.0258	1.0255	1.0260	1.0263	1.0264	1.0263	1.0288	
Salinity	35.9	36.0	35.8	35.8	35.5	35.3	34.9	34.8	34.4	35.0	35.4	35.5	35.4		1.0173
Max.	1.0288	1.0279	1.0281	1.0279	1.0277	1.0275	1.0281	1.0272	1.0265	1.0274	1.0272	1.0278			
Mean Max.	1.0273	1.0273	1.0272	1.0271	1.0270	1.0272	1.0267	1.0266	1.0262	1.0268	1.0268	1.0273			
Mean Min.	1.0262	1.0262	1.0258	1.0258	1.0257	1.0253	1.0250	1.0247	1.0234	1.0243	1.0254	1.0254			
Min.	1.0257	1.0260	1.0252	1.0241	1.0251	1.0246	1.0241	1.0231	1.0173	1.0207	1.0241	1.0239			
TRINIDAD (Carenage Bay), B.W.I.															
1949	---	---	---	---	---	---	1.0187	1.0139	1.0156	1.0169	1.0187	1.0188	---	1.0231*	---
1950	1.0217	1.0204	1.0232	1.0253	1.0254	1.0208	166	131	161	168	203	---	---	278*	---
1951	233	219	230	---	---	210	169	146	130	161	183	206	---	247*	---
1952	223	240	250	257	252	224	197	153	164	190	---	---	---	262*1.0089*	---
1953	---	---	237	---	231	209	---	---	---	---	---	---	---	244*	190*
1954	209	227	---	---	---	207	174	135	142	150	164	161	---	241*	091*
1955	188	---	248	235	242	212	171	161	156	182	---	---	---	256*	073*
Mean															
Density	1.0214	1.0222	1.0239	1.0248	1.0245	1.0212	1.0177	1.0144	1.0152	1.0170	1.0184	1.0185	1.0199	1.0278	
Salinity	29.0	30.1	32.3	33.5	33.1	28.8	24.2	19.9	20.9	23.3	25.1	25.2	27.1		
Max.	1.0247	1.0248	1.0256	1.0278	1.0264	1.0246	1.0217	1.0185	1.0200	1.0226	1.0220	1.0231			
Mean Max.	1.0228	1.0236	1.0246	1.0261	1.0255	1.0233	1.0198	1.0173	1.0183	1.0201	1.0206	1.0209			
Mean Min.	1.0198	1.0212	1.0227	1.0240	1.0229	1.0189	1.0155	1.0108	1.0106	1.0142	1.0164	1.0167			
Min.	1.0175	1.0196	1.0213	1.0230	1.0214	1.0180	1.0126	1.0089	1.0073	1.0132	1.0143	1.0148			1.0073

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
	AMUAY, VENEZUELA -Continued														
Mean Density	1.0268	1.0270	1.0270	1.0267	1.0270	1.0270	1.0271	1.0271	1.0269	1.0262	1.0266	1.0270	1.0269		
Salinity	36.0	36.3	36.3	35.9	36.3	36.3	36.4	36.4	36.2	35.3	35.8	36.3	36.2		
Max.	1.0276	1.0279	1.0279	1.0273	1.0276	1.0276	1.0277	1.0277	1.0278	1.0273	1.0280	1.0277		1.0280	
Mean Max.	1.0272	1.0276	1.0273	1.0271	1.0274	1.0274	1.0275	1.0275	1.0276	1.0272	1.0274	1.0274			
Mean Min.	1.0259	1.0268	1.0266	1.0254	1.0268	1.0265	1.0267	1.0266	1.0259	1.0242	1.0256	1.0264			
Min.	1.0237	1.0264	1.0264	1.0230	1.0265	1.0255	1.0264	1.0261	1.0251	1.0223	1.0240	1.0261			1.0223
	LA GUAIRA, VENEZUELA														
1949	---	---	---	---	---	---	---	---	1.0276	1.0272	1.0269	1.0269	---	1.0285*	1.0262*
1950	1.0274	1.0276	1.0277	1.0278	1.0273	1.0272	1.0275	1.0275	273	276	272	266	1.0274	289	256
1951	273	273	270	272	272	272	273	270	270	272	268	272	271	293	225
1952	275	271	272	273	273	274	270	274	269	270	268	273	272	287	229
1953	274	270	268	270	271	269	270	269	271	269	272	269	270	280	256
1954	271	270	271	272	270	267	268	268	265	263	265	267	268	281	250
1955	271	271	274	274	272	270	272	266	268	262	267	271	270	284	256
1956	266	277	276	276	277	276	276	272	274	270	265	273	273	282	247
Mean Density	1.0272	1.0273	1.0273	1.0274	1.0273	1.0271	1.0272	1.0271	1.0271	1.0269	1.0268	1.0270	1.0271		
Salinity	36.6	36.7	36.7	36.8	36.7	36.4	36.6	36.4	36.4	36.2	36.0	36.3	36.4		
Max.	1.0281	1.0293	1.0284	1.0289	1.0287	1.0280	1.0281	1.0284	1.0285	1.0287	1.0281	1.0278		1.0293	
Mean Max.	1.0278	1.0280	1.0278	1.0271	1.0281	1.0277	1.0277	1.0277	1.0278	1.0276	1.0277	1.0276			
Mean Min.	1.0264	1.0260	1.0266	1.0266	1.0263	1.0263	1.0265	1.0264	1.0264	1.0260	1.0257	1.0263			
Min.	1.0247	1.0225	1.0256	1.0261	1.0259	1.0256	1.0260	1.0260	1.0257	1.0250	1.0229	1.0256			1.0225
	CARENERO, VENEZUELA														
1949	---	---	---	---	---	---	---	---	---	1.0265	1.0258	1.0212	---	1.0279*	1.0123*

1950	1.0200	1.0210	1.0187	1.0248	1.0255	1.0222	1.0214	1.0248	1.0257	262	264	217	1.0232	284	139
1951	---	196	223	266	268	260	254	262	263	264	261	260	---	280*	148*
1952	259	258	266	279	260	271	270	268	271	268	264	262	266	287	249
1953	267	256	263	270	265	265	268	269	270	265	269	268	266	280	246
1954	---	265	268	269	270	274	269	274	269	269	266	262	---	283*	259*
1955	262	270	---	265	265	259	---	---	---	---	---	---	---	281*	247*
1956	---	---	253	254	255	262	---	224	262	---	---	---	---	270*	178*
Mean															
Density	1.0247	1.0242	1.0243	1.0264	1.0263	1.0259	1.0255	1.0258	1.0265	1.0266	1.0264	1.0247	1.0256		
Salinity	33.3	32.7	32.8	35.5	35.4	34.9	34.4	36.0	35.7	35.8	35.5	33.3	34.5		
Max.	1.0274	1.0275	1.0281	1.0287	1.0278	1.0280	1.0278	1.0283	1.0281	1.0284	1.0276	1.0278	1.0287		
Mean Max.	1.0267	1.0270	1.0269	1.0276	1.0272	1.0272	1.0270	1.0274	1.0272	1.0275	1.0272	1.0267			
Mean Min.	1.0230	1.0222	1.0220	1.0248	1.0252	1.0241	1.0231	1.0240	1.0257	1.0253	1.0252	1.0224			
Min.	1.0148	1.0148	1.0144	1.0219	1.0232	1.0161	1.0139	1.0178	1.0235	1.0233	1.0225	1.0123			1.0123
1949	---	---	---	---	---	---	---	---	1.0259	1.0261	1.0271	1.0273	---	1.0285*	1.0188*
1950	1.0275	1.0279	1.0275	1.0273	1.0269	1.0269	1.0281	1.0257	269	267	266	275	1.0271	289	169
1951	272	262	274	264	275	268	262	248	253	264	267	264	264	295	152
1952	274	273	271	266	264	272	259	254	249	258	269	274	265	282	176
1953	274	272	272	270	271	269	266	264	267	268	267	272	269	289	161
1954	274	273	273	272	272	270	261	249	261	265	270	271	268	279	162
1955	267	270	273	269	269	267	265	265	257	254	262	267	265	287	160
1956	266	272	270	271	274	274	273	---	264	269	---	272	---	286*	228*
Mean															
Density	1.0272	1.0272	1.0273	1.0269	1.0271	1.0270	1.0267	1.0256	1.0260	1.0263	1.0267	1.0271	1.0268		
Salinity	36.6	36.6	36.7	36.2	36.4	36.3	35.9	34.5	35.0	35.4	35.9	36.4	36.0		
Max.	1.0288	1.0289	1.0287	1.0295	1.0284	1.0283	1.0287	1.0291	1.0279	1.0286	1.0284	1.0287			
Mean Max.	1.0280	1.0281	1.0281	1.0280	1.0279	1.0277	1.0278	1.0282	1.0276	1.0278	1.0277	1.0280			
Mean Min.	1.0244	1.0247	1.0251	1.0246	1.0253	1.0237	1.0208	1.0180	1.0204	1.0216	1.0230	1.0249			
Min.	1.0160	1.0182	1.0210	1.0174	1.0226	1.0163	1.0161	1.0152	1.0162	1.0176	1.0201	1.0217			1.0152

*Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
1949	---	---	---	---	---	---	---	---	---	1.0271	1.0272	1.0265	---	1.0275*	1.0230*
1950	1.0273	1.0273	1.0272	1.0272	1.0270	1.0267	1.0268	1.0267	1.0268	267	266	267	1.0269	277	255
1951	269	270	269	268	266	265	267	267	269	271	273	273	269	278	237
1952	272	274	276	273	276	273	275	268	272	270	272	274	273	281	260
1953	275	274	272	272	272	272	272	272	271	269	273	272	272	277	261
1954	275	275	273	274	274	273	272	273	272	273	271	272	273	279	264
1955	274	274	274	272	272	274	275	---	---	---	---	---	---	279*	266*
Mean Density	1.0273	1.0273	1.0273	1.0272	1.0272	1.0271	1.0272	1.0269	1.0270	1.0270	1.0271	1.0270	1.0271	1.0281	
Salinity	36.7	36.7	36.7	36.6	36.6	36.4	36.6	36.2	36.3	36.3	36.4	36.3	36.4		
Max.	1.0278	1.0277	1.0279	1.0279	1.0281	1.0281	1.0280	1.0278	1.0276	1.0277	1.0278	1.0279			
Mean Max.	1.0276	1.0276	1.0276	1.0275	1.0276	1.0275	1.0276	1.0273	1.0274	1.0274	1.0275	1.0276			
Mean Min.	1.0265	1.0270	1.0270	1.0268	1.0265	1.0262	1.0268	1.0265	1.0266	1.0264	1.0267	1.0261			
Min.	1.0255	1.0266	1.0265	1.0264	1.0259	1.0237	1.0264	1.0260	1.0264	1.0254	1.0264	1.0230		1.0230	
BELÉM, BRAZIL															
1950	1.0002	1.0001	1.0001	---	0.9998	0.9999	0.9999	1.0000	---	1.0002	1.0001	1.0001	---	1.0006*	0.9995*
1951	1.0001	1.0000	0.9999	0.9999	1.0001	1.0003	1.0002	1.0005	1.0003	1.0004	1.0008	1.0004	1.0002	1.0015	0.9996
1952	1.0000	0.9999	0.9999	---	---	1.0000	1.0001	---	---	---	---	---	---	1.0004*	0.9994*
1953	---	0.9998	0.9994	0.9994	0.9995	0.9995	0.9997	0.9996	0.9992	0.9992	0.9993	0.9993	---	1.0007*	0.9986*
1954	0.9992	0.9991	0.9992	0.9994	0.9994	0.9992	0.9992	0.9991	0.9997	0.9999	0.9999	0.9999	0.9994	1.0001	0.9988
1955	0.9993	0.9991	0.9993	0.9995	0.9996	0.9997	0.9998	0.9997	0.9997	1.0000	1.0001	0.9998	0.9996	1.0006	0.9990
1956	0.9997	0.9997	0.9995	0.9996	0.9996	0.9996	0.9997	0.9996	0.9996	0.9996	0.9996	0.9996	0.9996	1.0005	0.9991

Mean	0.9998	0.9997	0.9996	0.9996	0.9997	0.9997	0.9998	0.9998	0.9997	0.9999	1.0000	0.9998	0.9998	0.9998
Density	0.8	0.7	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.9	1.1	0.8	0.8	0.8
Salinity														
Max.	1.0005	1.0007	1.0004	1.0001	1.0003	1.0004	1.0004	1.0007	1.0007	1.0007	1.0015	1.0010		1.0015
Mean Max.	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0002	1.0004	1.0002		
Mean Min.	0.9995	0.9993	0.9992	0.9992	0.9994	0.9994	0.9995	0.9994	0.9993	0.9996	0.9997	0.9996		
Min.	0.9989	0.9986	0.9986	0.9988	0.9991	0.9990	0.9991	0.9991	0.9990	0.9993	0.9990	0.9992		0.9986
SALINOPOLIS, BRAZIL														
1951	---	1.0270	1.0210	---	---	1.0207	---	1.0264	1.0275	1.0282	1.0289	1.0286	---	1.0294*
1952	---	---	---	---	---	---	---	230	253	266	273	279	---	292*
1953	1.0215	232	---	---	1.0185	210	1.0219	245	262	273	280	283	---	289*
1954	246	---	---	---	---	---	---	252	268	278	283	284	---	294*
1955	---	---	---	---	---	---	---	---	243	261	270	267	---	279*
FORTALEZA (Mucuripe), BRAZIL														
1951	---	---	---	---	---	---	---	---	1.0275	1.0279	1.0278	1.0280	---	1.0289*
1952	1.0280	1.0282	1.0280	1.0278	1.0278	1.0277	1.0277	278	278	279	281	281	---	290
1953	281	281	282	281	282	283	282	281	284	286	284	284	---	292
1954	287	285	285	283	282	280	279	279	282	284	285	285	---	293
1955	287	282	286	283	285	284	283	283	282	281	283	282	---	292
1956	282	282	281	279	273	277	277	277	278	282	280	280	---	288
Mean	1.0283	1.0282	1.0283	1.0281	1.0280	1.0281	1.0280	1.0280	1.0279	1.0281	1.0282	1.0282	---	1.0281
Density	38.0	37.9	38.0	37.7	37.6	37.7	37.6	37.6	37.5	37.7	37.9	37.9	---	37.7
Salinity														
Max.	1.0293	1.0292	1.0292	1.0292	1.0289	1.0289	1.0289	1.0289	1.0288	1.0289	1.0292	1.0292		1.0293
Mean Max.	1.0289	1.0289	1.0287	1.0288	1.0286	1.0286	1.0286	1.0285	1.0284	1.0286	1.0288	1.0290		
Mean Min.	1.0278	1.0277	1.0276	1.0270	1.0271	1.0271	1.0270	1.0270	1.0269	1.0272	1.0276	1.0274		
Min.	1.0275	1.0275	1.0273	1.0266	1.0262	1.0262	1.0262	1.0259	1.0260	1.0259	1.0273	1.0273		1.0259

* Observations for the year are incomplete; extremes are for the months shown.

Table 1. Density of Sea Water - Continued
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
RECIFE, BRAZIL															
1949	---	---	---	---	---	---	---	---	---	1.0258	1.0264	1.0242	---	1.0284*	1.0134*
1950	1.0266	1.0272	1.0260	---	---	---	1.0228	1.0220	1.0220	255	266	265	---	280*	144*
1951	269	260	276	1.0269	1.0229	---	197	230	248	256	260	253	---	292*	---
1952	264	268	238	252	225	1.0244	234	235	252	262	271	273	1.0252	284	132
1953	276	278	273	247	231	207	225	236	256	269	268	264	252	286	120
1954	275	278	274	228	---	---	219	245	260	269	270	272	---	286	---
1955	274	262	---	---	---	---	197	206	249	256	264	258	---	282	---
1956	270	261	233	206	252	216	208	222	239	257	264	269	241	280	050
Mean Density	1.0271	1.0268	1.0259	1.0240	1.0234	1.0222	1.0215	1.0228	1.0246	1.0260	1.0266	1.0262	1.0248	---	---
Salinity	36.4	36.0	34.9	32.4	31.6	30.1	29.1	30.8	33.2	35.0	35.8	35.3	33.5	---	---
Max.	1.0292	1.0286	1.0287	1.0283	1.0269	1.0270	1.0267	1.0271	1.0277	1.0284	1.0284	1.0284	---	1.0292	---
Mean Max.	1.0282	1.0280	1.0278	1.0270	1.0264	1.0265	1.0261	1.0262	1.0269	1.0276	1.0277	1.0278	---	---	---
Mean Min.	1.0256	1.0238	1.0193	1.0175	1.0177	1.0145	1.0137	1.0168	1.0206	1.0235	1.0239	1.0214	---	---	---
Min.	1.0240	1.0171	1.0050	1.0092	1.0151	1.0104	1.0111	1.0109	1.0144	1.0210	1.0181	1.0134	---	---	1.0050
SALVADOR, BRAZIL															
1949	---	---	---	---	---	---	---	---	---	---	---	---	---	1.0270*	1.0249*
1950	1.0269	1.0270	1.0269	1.0268	1.0257	1.0257	1.0256	1.0260	1.0263	267	268	---	---	274*	248*
1951	---	277	280	273	264	260	260	266	270	274	276	---	---	288*	246*
1952	279	280	279	278	---	261	266	267	270	278	278	271	---	286*	252*
1953	269	277	279	279	---	270	269	267	268	269	276	276	---	283*	260*
1954	270	273	270	266	264	268	269	269	270	278	280	269	1.0270	285	252
1955	272	272	273	276	273	274	275	270	274	275	278	271	274	283	263
1956	277	279	275	270	268	266	264	264	266	272	261	261	269	286	240

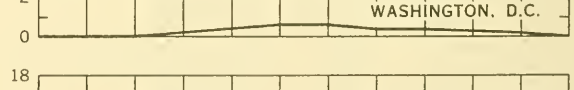
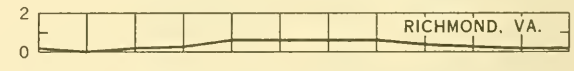
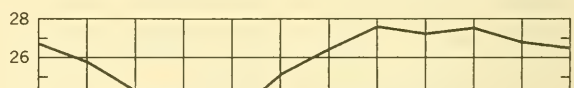
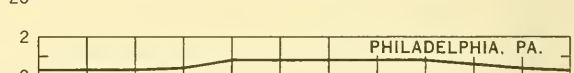
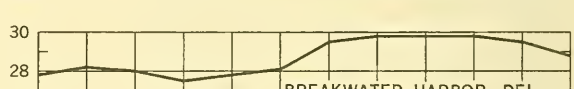
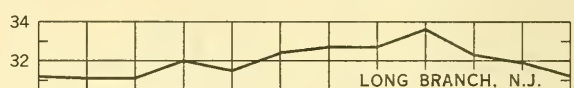
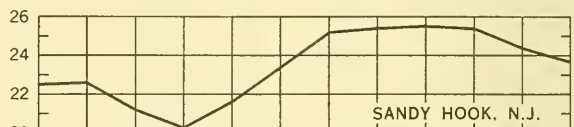
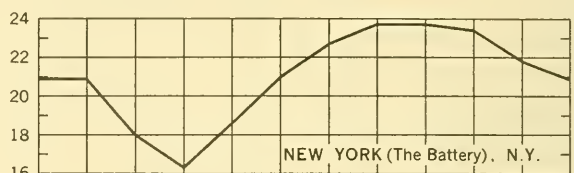
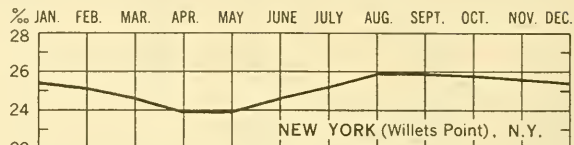
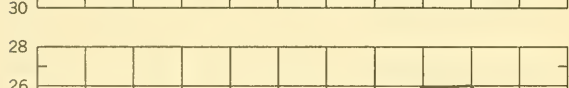
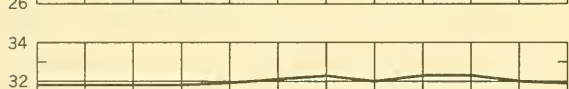
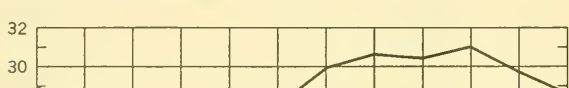
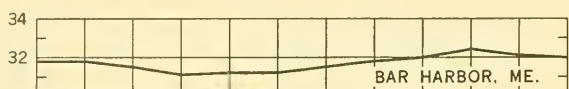
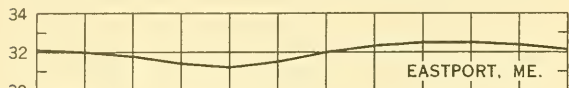
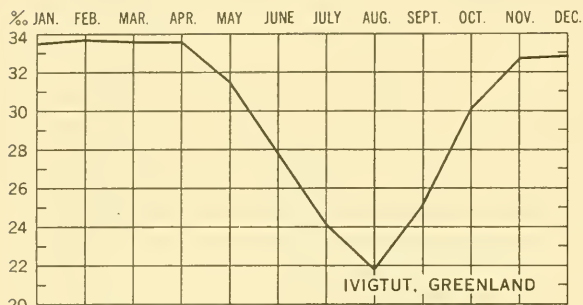
Table 1. Density of Sea Water - Continued

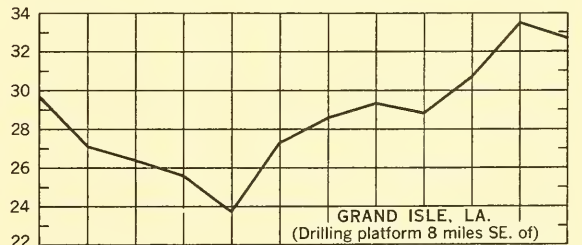
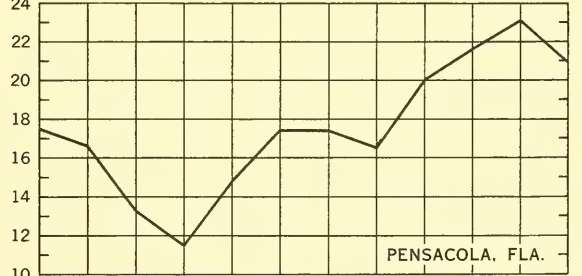
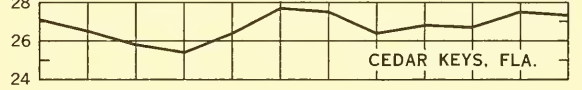
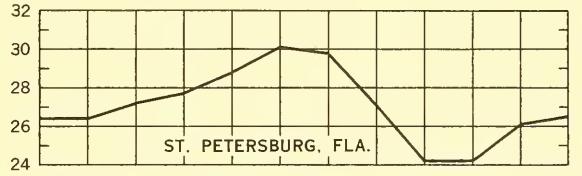
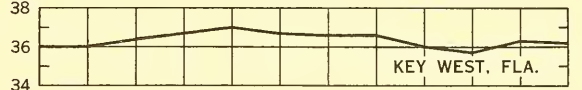
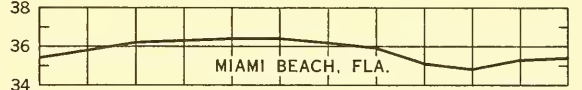
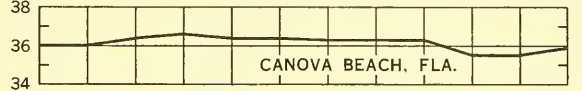
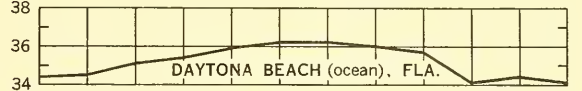
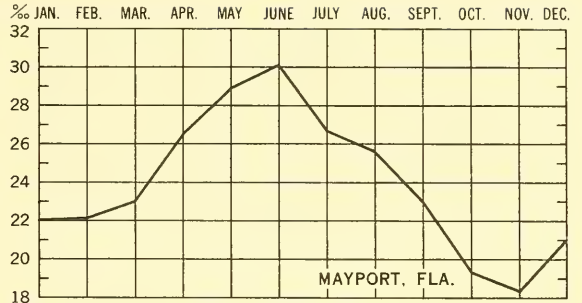
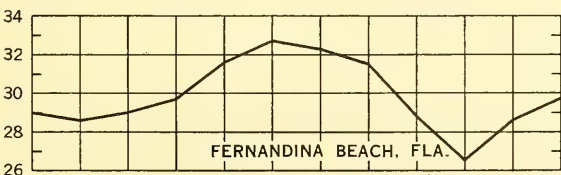
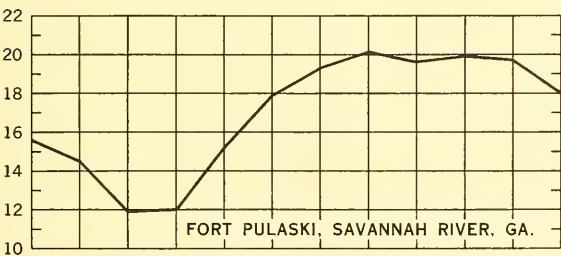
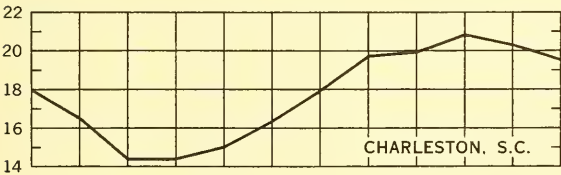
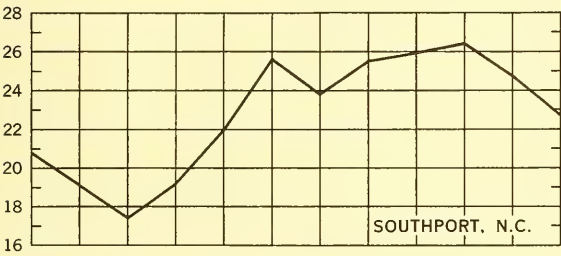
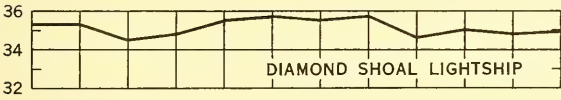
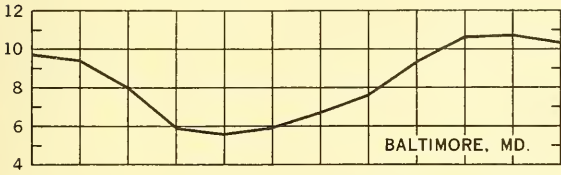
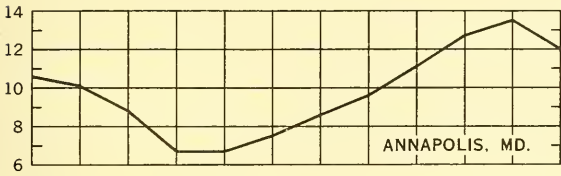
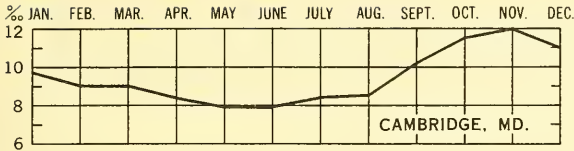
Means and Extremes

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Means	Max.	Min.
RIO DE JANEIRO (Fortaleza de Santa Cruz), BRAZIL -Continued															
Mean Density	1.0238	1.0234	1.0236	1.0232	1.0237	1.0251	1.0256	1.0257	1.0258	1.0258	1.0250	1.0241	1.0246		
Salinity	32.1	31.6	31.9	31.4	32.0	33.8	34.5	34.6	34.8	34.8	33.7	32.5	33.2		
Max.	1.0265	1.0265	1.0263	1.0260	1.0258	1.0270	1.0270	1.0268	1.0269	1.0270	1.0265	1.0265		1.0270	
Mean Max.	1.0258	1.0254	1.0255	1.0252	1.0253	1.0260	1.0263	1.0263	1.0263	1.0264	1.0260	1.0255			
Mean Min.	1.0200	1.0212	1.0217	1.0215	1.0221	1.0240	1.0247	1.0250	1.0252	1.0250	1.0241	1.0222			
Min.	1.0122	1.0145	1.0175	1.0168	1.0178	1.0228	1.0240	1.0239	1.0247	1.0241	1.0228	1.0191			1.0122
IMBITUBA, BRAZIL															
1949	---	---	---	---	---	---	---	---	---	1.0265	1.0265	1.0266	---	1.0270*	1.0259*
1950	1.0262	1.0265	1.0262	1.0267	1.0265	1.0264	1.0260	1.0243	1.0255	259	266	264	1.0261	273	222
1951	262	263	268	251	257	264	258	265	262	248	260	264	260	271	243
1952	263	266	266	266	255	252	244	253	243	243	255	262	256	271	232
1953	262	262	267	264	265	263	256	265	265	262	259	263	263	272	240
1954	265	265	264	261	260	254	244	238	252	256	249	260	256	270	225
1955	260	---	263	261	253	239	228	242	253	255	253	259	---	270*	210*
1956	255	256	260	262	257	232	240	248	261	262	262	264	255	269	217
Mean Density	1.0261	1.0263	1.0264	1.0262	1.0259	1.0253	1.0247	1.0251	1.0256	1.0256	1.0259	1.0263	1.0258		
Salinity	35.1	35.4	35.5	35.3	34.9	34.1	33.3	33.8	34.5	34.5	34.9	35.4	34.8		
Max.	1.0270	1.0270	1.0270	1.0270	1.0273	1.0271	1.0268	1.0272	1.0270	1.0270	1.0269	1.0269		1.0273	
Mean Max.	1.0266	1.0268	1.0269	1.0267	1.0268	1.0261	1.0260	1.0266	1.0266	1.0266	1.0266	1.0266			
Mean Min.	1.0254	1.0256	1.0255	1.0255	1.0248	1.0244	1.0236	1.0237	1.0246	1.0245	1.0251	1.0255			
Min.	1.0240	1.0246	1.0245	1.0247	1.0230	1.0217	1.0210	1.0222	1.0236	1.0233	1.0237	1.0240			1.0210

Mean Salinity Curves

Monthly mean salinities in parts per thousand are presented graphically to show the seasonal variation.





Mean Salinity Curves-Continued

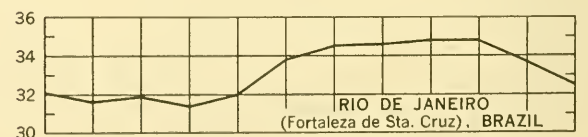
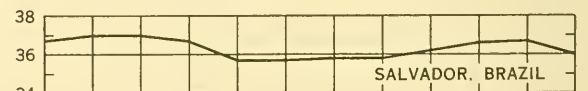
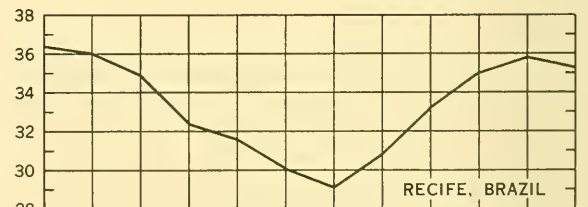
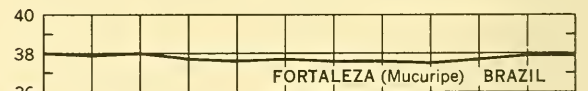
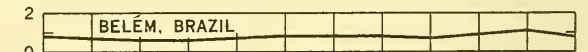
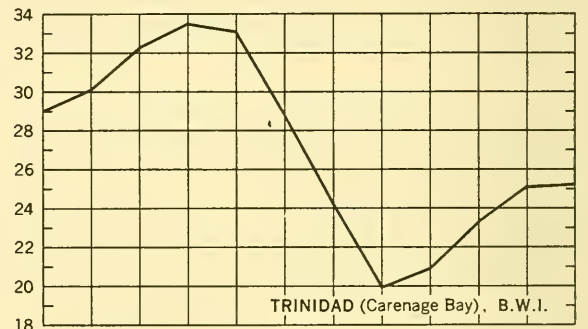
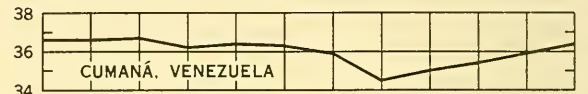
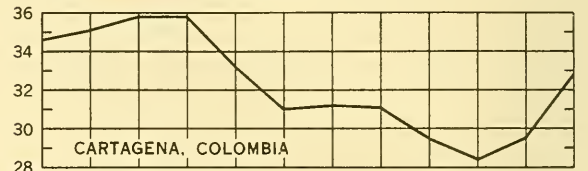
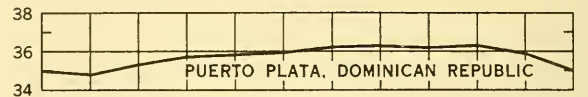
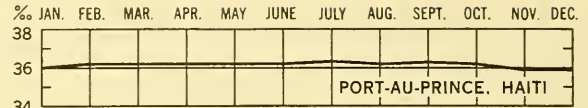
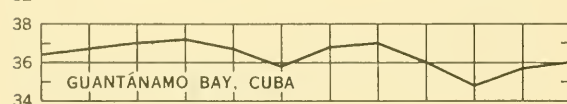
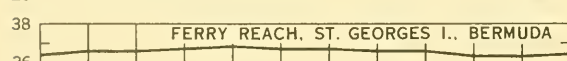
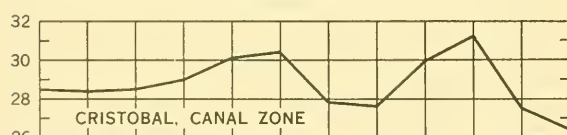
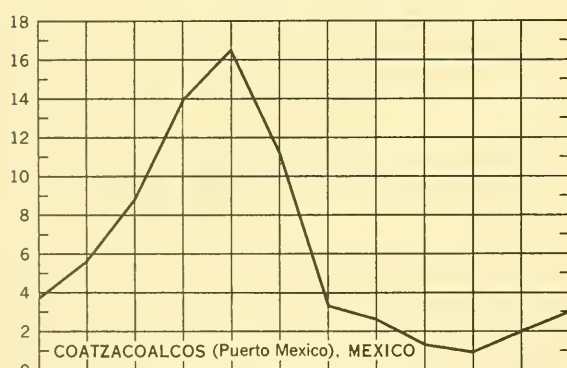
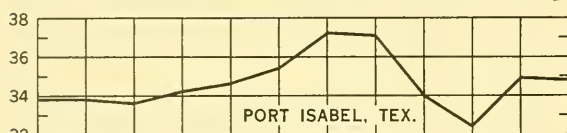
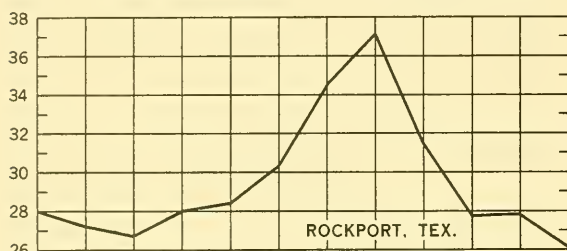
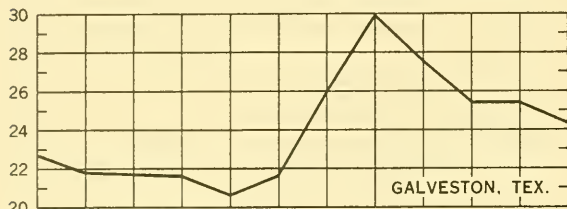
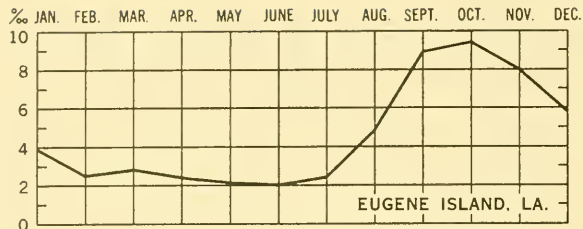


Table 2. Corresponding Densities and Salinities

(Density at 15°C. -- Salinity in parts per 1000)

Den- sity	Sal- inity	Den- sity	Sal- inity	Den- sity	Sal- inity	Den- sity	Sal- inity	Den- sity	Sal- inity	Den- sity	Sal- inity
0.9991	0.0	1.0046	7.1	1.0101	14.2	1.0156	21.4	1.0211	28.6	1.0266	35.8
0.9992	0.0	1.0047	7.2	1.0102	14.4	1.0157	21.6	1.0212	28.8	1.0267	35.9
0.9993	0.2	1.0048	7.3	1.0103	14.5	1.0158	21.7	1.0213	28.9	1.0268	36.0
0.9994	0.3	1.0049	7.5	1.0104	14.6	1.0159	21.8	1.0214	29.0	1.0269	36.2
0.9995	0.4	1.0050	7.6	1.0105	14.8	1.0160	22.0	1.0215	29.1	1.0270	36.3
0.9996	0.6	1.0051	7.7	1.0106	14.9	1.0161	22.1	1.0216	29.3	1.0271	36.4
0.9997	0.7	1.0052	7.9	1.0107	15.0	1.0162	22.2	1.0217	29.4	1.0272	36.6
0.9998	0.8	1.0053	8.0	1.0108	15.2	1.0163	22.4	1.0218	29.5	1.0273	36.7
0.9999	0.9	1.0054	8.1	1.0109	15.3	1.0164	22.5	1.0219	29.7	1.0274	36.8
1.0000	1.1	1.0055	8.2	1.0110	15.4	1.0165	22.6	1.0220	29.8	1.0275	37.0
1.0001	1.2	1.0056	8.4	1.0111	15.6	1.0166	22.7	1.0221	29.9	1.0276	37.1
1.0002	1.3	1.0057	8.5	1.0112	15.7	1.0167	22.9	1.0222	30.1	1.0277	37.2
1.0003	1.5	1.0058	8.6	1.0113	15.8	1.0168	23.0	1.0223	30.2	1.0278	37.3
1.0004	1.6	1.0059	8.8	1.0114	16.0	1.0169	23.1	1.0224	30.3	1.0279	37.5
1.0005	1.7	1.0060	8.9	1.0115	16.1	1.0170	23.3	1.0225	30.4	1.0280	37.6
1.0006	1.9	1.0061	9.0	1.0116	16.2	1.0171	23.4	1.0226	30.6	1.0281	37.7
1.0007	2.0	1.0062	9.2	1.0117	16.3	1.0172	23.5	1.0227	30.7	1.0282	37.9
1.0008	2.1	1.0063	9.3	1.0118	16.5	1.0173	23.7	1.0228	30.8	1.0283	38.0
1.0009	2.2	1.0064	9.4	1.0119	16.6	1.0174	23.8	1.0229	31.0	1.0284	38.1
1.0010	2.4	1.0065	9.6	1.0120	16.7	1.0175	23.9	1.0230	31.1	1.0285	38.2
1.0011	2.5	1.0066	9.7	1.0121	16.9	1.0176	24.1	1.0231	31.2	1.0286	38.4
1.0012	2.6	1.0067	9.8	1.0122	17.0	1.0177	24.2	1.0232	31.4	1.0287	38.5
1.0013	2.8	1.0068	9.9	1.0123	17.1	1.0178	24.3	1.0233	31.5	1.0288	38.6
1.0014	2.9	1.0069	10.1	1.0124	17.3	1.0179	24.4	1.0234	31.6	1.0289	38.8
1.0015	3.0	1.0070	10.2	1.0125	17.4	1.0180	24.6	1.0235	31.8	1.0290	38.9
1.0016	3.2	1.0071	10.3	1.0126	17.5	1.0181	24.7	1.0236	31.9	1.0291	39.0
1.0017	3.3	1.0072	10.5	1.0127	17.7	1.0182	24.8	1.0237	32.0	1.0292	39.2
1.0018	3.4	1.0073	10.6	1.0128	17.8	1.0183	25.0	1.0238	32.1	1.0293	39.3
1.0019	3.5	1.0074	10.7	1.0129	17.9	1.0184	25.1	1.0239	32.3	1.0294	39.4
1.0020	3.7	1.0075	10.8	1.0130	18.0	1.0185	25.2	1.0240	32.4	1.0295	39.6
1.0021	3.8	1.0076	11.0	1.0131	18.2	1.0186	25.4	1.0241	32.5	1.0296	39.7
1.0022	3.9	1.0077	11.1	1.0132	18.3	1.0187	25.5	1.0242	32.7	1.0297	39.8
1.0023	4.1	1.0078	11.2	1.0133	18.4	1.0188	25.6	1.0243	32.8	1.0298	39.9
1.0024	4.2	1.0079	11.4	1.0134	18.6	1.0189	25.8	1.0244	32.9	1.0299	40.1
1.0025	4.3	1.0080	11.5	1.0135	18.7	1.0190	25.9	1.0245	33.1	1.0300	40.2
1.0026	4.5	1.0081	11.6	1.0136	18.8	1.0191	26.0	1.0246	33.2	1.0301	40.3
1.0027	4.6	1.0082	11.8	1.0137	19.0	1.0192	26.1	1.0247	33.3	1.0302	40.4
1.0028	4.7	1.0083	11.9	1.0138	19.1	1.0193	26.3	1.0248	33.5	1.0303	40.6
1.0029	4.8	1.0084	12.0	1.0139	19.2	1.0194	26.4	1.0249	33.6	1.0304	40.7
1.0030	5.0	1.0085	12.2	1.0140	19.3	1.0195	26.5	1.0250	33.7	1.0305	40.8
1.0031	5.1	1.0086	12.3	1.0141	19.5	1.0196	26.7	1.0251	33.8	1.0306	41.0
1.0032	5.2	1.0087	12.4	1.0142	19.6	1.0197	26.8	1.0252	34.0	1.0307	41.1
1.0033	5.4	1.0088	12.6	1.0143	19.7	1.0198	26.9	1.0253	34.1	1.0308	41.2
1.0034	5.5	1.0089	12.7	1.0144	19.9	1.0199	27.1	1.0254	34.2	1.0309	41.4
1.0035	5.6	1.0090	12.8	1.0145	20.0	1.0200	27.2	1.0255	34.4	1.0310	41.5
1.0036	5.8	1.0091	12.9	1.0146	20.1	1.0201	27.3	1.0256	34.5	1.0311	41.6
1.0037	5.9	1.0092	13.1	1.0147	20.3	1.0202	27.5	1.0257	34.6	1.0312	41.7
1.0038	6.0	1.0093	13.2	1.0148	20.4	1.0203	27.6	1.0258	34.8	1.0313	41.9
1.0039	6.2	1.0094	13.3	1.0149	20.5	1.0204	27.7	1.0259	34.9	1.0314	42.0
1.0040	6.3	1.0095	13.5	1.0150	20.6	1.0205	27.8	1.0260	35.0	1.0315	42.1
1.0041	6.4	1.0096	13.6	1.0151	20.8	1.0206	28.0	1.0261	35.1	1.0316	42.3
1.0042	6.6	1.0097	13.7	1.0152	20.9	1.0207	28.1	1.0262	35.3	1.0317	42.4
1.0043	6.7	1.0098	13.9	1.0153	21.0	1.0208	28.2	1.0263	35.4	1.0318	42.5
1.0044	6.8	1.0099	14.0	1.0154	21.2	1.0209	28.4	1.0264	35.5	1.0319	42.7
1.0045	6.9	1.0100	14.1	1.0155	21.3	1.0210	28.5	1.0265	35.7	1.0320	42.8

Sea Water Density at Various Temperatures

The purpose of this graph is to provide the density of sea water at any temperature apt to be encountered when the density at the standard temperature of 59°F. (15°C.) is known. It is intended primarily for use with this density publication which gives densities at 59°F. and with Coast and Geodetic Survey Special Publication No. 278 which gives sea water temperatures for the same stations.

To convert a density at 59°F. to density at another temperature, enter the graph horizontally from the left with the known density and downward from the top with the desired temperature; the position of the point of intersection with respect to the curves gives the density at the desired temperature. Interpolate between curves when necessary. For example, by this method, water having a density of 1.0162 at 59°F. is found to have a density of 1.0124 at 85°F.

The densities are referred to the density of fresh water at 4°C. (39.2°F.) as unity.

