PUBLICATIONS RELATING TO TIDES AND TIDAL CURRENTS

TIDE TABLES

Advance information relative to the rise and fall of the tide is given in annual tide tables. These tables include the predicted times and heights of high and low waters for every day in the year for a number of reference stations and differences for obtaining similar predictions for numerous other places.

Tide Tables, Central and Western Pacific Ocean and Indian Ocean.
Tide Tables, East Coast of North and South America (Including Greenland).
Tide Tables, Europe and West Coast of Africa (Including the Mediterranean Sea).
Tide Tables, West Coast of North and South America (Including the Hawaiian Islands).

TIDAL BENCH MARKS

To provide permanent points for the observed heights of the tide and the tidal datum planes determined therefrom, a system of bench marks is established at each tide station. The descriptions and elevations of these bench marks along our coast are compiled, published, and available for distribution. Requests for such bench mark data should specify the coastal locality for which the information is desired.

TIDAL CURRENT TABLES

Accompanying the rise and fall of the tide is a periodic horizontal flow of the water known as the tidal current. Advance information relative to these currents is made available in annual tidal current tables which include daily predictions of the times of slack water and the times and velocities of strength of flood and ebb currents for a number of waterways together with differences for obtaining predictions for numerous other places.

Tidal Current Tables, Atlantic Coast of North America.
Tidal Current Tables, Pacific Coast of North America and Asia.

TIDAL CURRENT CHARTS

Each publication consists of a set of 12 charts which depict, by means of arrows and figures, the direction and speed of the tidal current for each hour of the tidal cycle. The charts, which may be used for any year, present a comprehensive view of the tidal current movement in the respective waterways as a whole and also supply a means for readily determining for any time the direction and speed of the current at various localities throughout the water areas covered. The Narragansett Bay tidal current chart is to be used with the annual tide tables. The other charts require the annual tidal current tables.

Tidal Current Charts, Boston Harbor.
Tidal Current Charts, Charleston Harbor, S.C.
Tidal Current Charts, Delaware Bay and River.
Tidal Current Charts, Long Island Sound and Block Island Sound.
Tidal Current Charts, Narragansett Bay.
Tidal Current Charts, Narragansett Bay to Nantucket Sound.
Tidal Current Charts, New York Harbor.
Tidal Current Charts, Puget Sound, Northern Part.
Tidal Current Charts, Puget Sound, Southern Part.
Tidal Current Charts, San Francisco Bay.
Tidal Current Charts, Upper Chesapeake Bay.
Tidal Current Charts, Tampa Bay.

TIDAL CURRENT DIAGRAMS

The tidal current diagrams are a series of 12 monthly diagrams to be used with the tidal current charts to give the user a convenient method to determine the current flow on a particular day.

Tidal Current Diagrams for Long Island Sound and Block Island Sound.
Tidal Current Diagrams for Boston Harbor.
Tidal Current Diagrams for New York Harbor.
Tidal Current Diagrams for Upper Chesapeake Bay.

PORTSMOUTH HARBOR ENTRANCE (off Wood I.), N.H., 1983

F-Flood, Dir. 355° True E-Ebb, Dir. 195° True

JANUARY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 Sa	0139	0424	2.2E
	0800	1017	1.8F
	1352	1654	2.6E
	2046	2253	1.6F
2 Su	0234	0517	2.1E
	0855	1110	1.7F
	1444	1745	2.5E
	2138	2346	1.6F
3 M	0329	0611	2.1E
	0951	1201	1.6F
	1538	1838	2.4E
	2231		
4 Tu		0039	1.5F
	0426	0706	2.0E
	1050	1254	1.4F
	1634	1932	2.2E
	2326		
5 W		0132	1.4F
	0523	0803	1.8E
	1151	1348	1.2F
	1732	2027	2.1E
6 Th	0022	0227	1.3F
	0621	0902	1.7E
	1253	1445	1.0F
	1832	2122	1.9E
7 F	0118	0319	1.1F
	0719	1008	1.7E
	1356	1544	0.8F
	1932	2221	1.7E
8 Sa	0213	0417	1.0F
	0815	1124	1.7E
	1458	1744	0.7F
	2032	2323	1.6E
9 Su	0308	0612	1.0F
	0908	1246	1.7E
	1556	1947	0.7F
	2129		
10 M		0023	1.5E
	0359	0657	1.0F
	0959	1341	1.7E
	1650	2040	0.8F
	2222		
11 Tu		0115	1.5E
	0448	0758	1.0F
	1046	1420	1.8E
	1739	2129	0.8F
	2312		
12 W		0200	1.4E
	0534	0734	1.0F
	1129	1443	1.8E
	1823	2057	0.8F
	2359		
13 Th		0236	1.4E
	0617	0816	1.0F
	1211	1510	1.9E
	1905	2051	0.8F
14 F	0042	0314	1.5E
	0700	0858	1.1F
	1249	1542	1.9E
	1945	2131	0.9F
15 Sa	0124	0355	1.5E
	0741	0940	1.1F
	1326	1619	1.9E
	2025	2212	1.0F
16 Su	0203	0435	1.5E
	0822	1023	1.2F
	1400	1658	1.9E
	2103	2253	1.0F
17 M	0240	0518	1.5E
	0904	1106	1.2F
	1430	1741	1.9E
	2142	2338	1.1F
18 Tu	0316	0602	1.6E
	0948	1149	1.1F
	1456	1822	1.9E
	2222		
19 W		0021	1.1F
	0352	0648	1.6E
	1034	1235	1.1F
	1523	1908	1.8E
	2303		
20 Th		0106	1.2F
	0429	0733	1.6E
	1123	1324	1.1F
	1558	1955	1.8E
	2346		
21 F		0153	1.2F
	0513	0824	1.6E
	1217	1415	1.0F
	1644	2044	1.7E
22 Sa	0034	0243	1.2F
	0605	0916	1.6E
	1315	1508	1.0F
	1743	2135	1.7E
23 Su	0125	0336	1.2F
	0705	1011	1.7E
	1414	1603	1.0F
	1901	2232	1.7E
24 M	0219	0431	1.3F
	0808	1110	1.8E
	1512	1701	1.0F
	2023	2328	1.7E
25 Tu	0315	0528	1.4F
	0909	1207	2.0E
	1609	1800	1.1F
	2134		
26 W	0411	0027	1.8E
	1007	0623	1.5F
	1703	1305	2.1E
	2238	1859	1.2F
27 Th	0506	0124	1.9E
	1102	0721	1.6F
	1755	1400	2.3E
	2336	1956	1.4F
28 F	0600	0220	2.0E
	1156	0816	1.7F
	1846	1455	2.5E
		2052	1.5F
29 Sa	0031	0315	2.1E
	0653	0909	1.8F
	1248	1546	2.6E
	1936	2143	1.6F
30 Su	0125	0408	2.2E
	0746	1002	1.8F
	1339	1637	2.6E
	2026	2236	1.6F
31 M	0217	0501	2.2E
	0839	1052	1.7F
	1429	1727	2.5E
	2115	2325	1.6F

FEBRUARY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 Tu	0309	0552	2.2E
	0933	1143	1.6F
	1520	1815	2.4E
	2206		
2 W		0014	1.6F
	0401	0643	2.1E
	1028	1232	1.4F
	1612	1905	2.2E
	2257		
3 Th		0103	1.4F
	0454	0737	1.9E
	1125	1323	1.2F
	1706	1957	2.0E
	2350		
4 F		0153	1.3F
	0548	0830	1.8E
	1225	1414	1.0F
	1802	2049	1.8E
5 Sa	0044	0242	1.1F
	0643	0926	1.7E
	1326	1506	0.8F
	1901	2144	1.6E
6 Su	0140	0335	1.0F
	0739	1031	1.6E
	1428	1725	0.6F
	2001	2241	1.4E
7 M	0236	0427	0.9F
	0834	1147	1.5E
	1528	1800	0.6F
	2100	2339	1.3E
8 Tu	0330	0520	0.8F
	0926	1308	1.6E
	1623	2019	0.7F
	2155		
9 W		0043	1.3E
	0422	0614	0.8F
	1016	1357	1.6E
	1713	2105	0.7F
	2247		
10 Th		0134	1.3E
	0510	0704	0.9F
	1102	1420	1.7E
	1757	2150	0.8F
	2334		
11 F		0212	1.4E
	0555	0751	1.0F
	1145	1445	1.8E
	1838	2026	0.8F
12 Sa	0018	0253	1.5E
	0638	0834	1.0F
	1226	1519	1.9E
	1917	2106	0.9F
13 Su	0058	0333	1.6E
	0719	0917	1.1F
	1303	1556	1.9E
	1955	2147	1.1F
14 M	0136	0412	1.6E
	0800	0959	1.2F
	1337	1634	2.0E
	2032	2228	1.2F
15 Tu	0211	0453	1.7E
	0840	1042	1.2F
	1407	1713	2.0E
	2108	2309	1.3F
16 W	0243	0534	1.8E
	0921	1127	1.2F
	1434	1756	2.0E
	2146	2352	1.3F
17 Th	0314	0619	1.8E
	1005	1210	1.2F
	1501	1839	1.9E
	2225		
18 F		0036	1.3F
	0347	0705	1.8E
	1052	1257	1.2F
	1535	1924	1.8E
	2307		
19 Sa		0123	1.3F
	0427	0754	1.8E
	1144	1348	1.1F
	1620	2015	1.8E
	2356		
20 Su		0214	1.3F
	0518	0847	1.8E
	1242	1440	1.0F
	1718	2106	1.7E
21 M	0051	0305	1.3F
	0623	0942	1.8E
	1344	1537	1.0F
	1839	2206	1.7E
22 Tu	0151	0402	1.3F
	0735	1041	1.8E
	1446	1636	1.0F
	2007	2305	1.7E
23 W	0253	0502	1.3F
	0844	1143	1.9E
	1546	1737	1.1F
	2120		
24 Th		0006	1.7E
	0354	0601	1.4F
	0948	1242	2.1E
	1642	1837	1.2F
	2224		
25 F		0106	1.9E
	0451	0702	1.5F
	1046	1341	2.3E
	1735	1938	1.3F
	2322		
26 Sa		0206	2.0E
	0546	0759	1.6F
	1141	1439	2.4E
	1826	2035	1.5F
27 Su	0016	0300	2.2E
	0639	0851	1.6F
	1233	1529	2.5E
	1915	2127	1.6F
28 M	0107	0352	2.2E
	0731	0944	1.7F
	1323	1618	2.5E
	2003	2216	1.7F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 355° True E-Ebb, Dir. 195° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Tu	0156	0442	2.3E
	0822	1033	1.6F
	1411	1705	2.4E
	2050	2302	1.6F
2 W	0244	0531	2.2E
	0913	1120	1.5F
	1500	1751	2.3E
	2138	2346	1.5F
3 Th	0332	0617	2.1E
	1005	1207	1.4F
	1548	1838	2.1E
	2227		
4 F		0031	1.4F
	0420	0705	2.0E
	1058	1254	1.2F
	1638	1923	1.9E
	2317		
5 Sa		0116	1.2F
	0510	0755	1.8E
	1155	1342	1.0F
	1731	2014	1.6E
6 Su	0010	0205	1.1F
	0603	0847	1.7E
	1254	1433	0.8F
	1829	2106	1.4E
7 M	0106	0254	0.9F
	0658	0944	1.5E
	1354	1713	0.6F
	1929	2201	1.3E
8 Tu	0203	0348	0.8F
	0754	1040	1.5E
	1454	1744	0.5F
	2029	2300	1.2E
9 W	0300	0441	0.7F
	0850	1151	1.5E
	1549	1822	0.6F
	2126		
10 Th		0004	1.2E
	0354	0713	0.7F
	0942	1250	1.6E
	1639	1910	0.7F
	2218		
11 F		0101	1.3E
	0444	0633	0.8F
	1031	1334	1.6E
	1724	2012	0.7F
	2305		
12 Sa		0147	1.4E
	0531	0721	0.9F
	1116	1411	1.7E
	1805	1954	0.9F
	2348		
13 Su		0226	1.6E
	0614	0807	1.0F
	1158	1448	1.8E
	1843	2037	1.0F
14 M	0028	0307	1.7E
	0655	0853	1.1F
	1236	1525	1.9E
	1921	2116	1.2F
15 Tu	0104	0345	1.8E
	0735	0934	1.2F
	1311	1605	2.0E
	1957	2158	1.3F
16 W	0138	0427	1.9E
	0815	1017	1.3F
	1343	1646	2.0E
	2033	2239	1.4F
17 Th	0210	0508	2.0E
	0856	1100	1.3F
	1414	1727	2.0E
	2111	2324	1.5F
18 F	0241	0553	2.0E
	0939	1145	1.3F
	1445	1812	1.9E
	2150		
19 Sa		0009	1.5F
	0315	0638	2.0E
	1027	1233	1.3F
	1523	1857	1.9E
	2235		
20 Su		0056	1.4F
	0356	0729	1.9E
	1119	1324	1.2F
	1611	1949	1.8E
	2328		
21 M		0145	1.4F
	0449	0820	1.9E
	1218	1417	1.1F
	1717	2044	1.7E
22 Tu	0027	0241	1.3F
	0557	0918	1.9E
	1320	1514	1.1F
	1841	2143	1.6E
23 W	0132	0338	1.2F
	0713	1019	1.9E
	1423	1614	1.0F
	2000	2246	1.6E
24 Th	0238	0441	1.2F
	0825	1122	1.9E
	1524	1717	1.1F
	2109	2350	1.7E
25 F	0340	0542	1.2F
	0930	1224	2.0E
	1621	1822	1.2F
	2210		
26 Sa		0053	1.9E
	0439	0643	1.3F
	1029	1325	2.2E
	1714	1922	1.3F
	2306		
27 Su		0154	2.0E
	0533	0743	1.4F
	1124	1420	2.3E
	1804	2016	1.5F
	2357		
28 M		0249	2.2E
	0625	0836	1.5F
	1215	1510	2.3E
	1851	2106	1.6F
29 Tu	0046	0338	2.2E
	0715	0926	1.5F
	1304	1557	2.3E
	1938	2151	1.6F
30 W	0132	0421	2.3E
	0804	1013	1.5F
	1351	1639	2.2E
	2023	2234	1.6F
31 Th	0217	0507	2.2E
	0853	1056	1.4F
	1437	1723	2.1E
	2109	2317	1.5F

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 F	0301	0550	2.1E
	0942	1139	1.3F
	1524	1808	1.9E
	2155		
2 Sa		0000	1.3F
	0346	0634	2.0E
	1032	1226	1.1F
	1612	1854	1.7E
	2244		
3 Su		0041	1.2F
	0431	0720	1.8E
	1125	1311	0.9F
	1702	1940	1.5E
	2336		
4 M		0129	1.0F
	0520	0811	1.7E
	1221	1402	0.8F
	1758	2031	1.4E
5 Tu	0031	0218	0.9F
	0613	0903	1.6E
	1319	1451	0.7F
	1857	2125	1.2E
6 W	0129	0311	0.8F
	0710	0958	1.5E
	1416	1547	0.6F
	1956	2224	1.2E
7 Th	0228	0406	0.7F
	0808	1057	1.5E
	1510	1813	0.6F
	2053	2323	1.2E
8 F	0323	0502	0.7F
	0903	1154	1.5E
	1559	1904	0.7F
	2144		
9 Sa		0021	1.3E
	0415	0557	0.8F
	0955	1243	1.6E
	1644	1832	0.8F
	2231		
10 Su		0111	1.5E
	0502	0650	0.9F
	1041	1331	1.7E
	1726	1918	1.0F
	2314		
11 M		0154	1.7E
	0546	0737	1.0F
	1125	1410	1.8E
	1805	2003	1.2F
	2353		
12 Tu		0238	1.8E
	0628	0824	1.1F
	1205	1453	1.9E
	1843	2046	1.3F
13 W	0030	0319	2.0E
	0709	0907	1.3F
	1242	1534	2.0E
	1921	2129	1.5F
14 Th	0105	0400	2.1E
	0751	0951	1.3F
	1318	1617	2.0E
	1959	2212	1.5F
15 F	0138	0443	2.1E
	0833	1036	1.4F
	1355	1701	2.0E
	2039	2257	1.6F
16 Sa	0214	0528	2.2E
	0918	1123	1.4F
	1435	1746	1.9E
	2123	2344	1.6F
17 Su	0253	0615	2.2E
	1007	1212	1.3F
	1521	1835	1.9E
	2212		
18 M		0032	1.5F
	0339	0705	2.1E
	1100	1303	1.3F
	1619	1930	1.8E
	2308		
19 Tu		0123	1.4F
	0436	0758	2.0E
	1159	1356	1.2F
	1728	2025	1.7E
20 W	0011	0218	1.3F
	0544	0857	2.0E
	1300	1456	1.1F
	1842	2127	1.6E
21 Th	0118	0319	1.2F
	0558	0958	1.9E
	1402	1557	1.1F
	1951	2230	1.6E
22 F	0224	0421	1.1F
	0808	1103	1.9E
	1502	1700	1.1F
	2055	2338	1.7E
23 Sa	0326	0524	1.1F
	0912	1205	2.0E
	1558	1805	1.2F
	2153		
24 Su		0044	1.9E
	0425	0627	1.2F
	1011	1306	2.1E
	1650	1905	1.3F
	2247		
25 M		0141	2.0E
	0519	0725	1.2F
	1105	1400	2.1E
	1739	1956	1.4F
	2336		
26 Tu		0234	2.1E
	0610	0819	1.3F
	1156	1449	2.1E
	1826	2042	1.5F
27 W	0023	0319	2.2E
	0659	0905	1.3F
	1244	1532	2.1E
	1912	2123	1.5F
28 Th	0107	0400	2.2E
	0746	0946	1.3F
	1330	1615	2.0E
	1956	2203	1.4F
29 F	0150	0441	2.1E
	0833	1031	1.2F
	1415	1656	1.9E
	2040	2245	1.4F
30 Sa	0231	0524	2.1E
	0920	1114	1.1F
	1500	1737	1.7E
	2125	2326	1.3F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

BOSTON HARBOR (Deer Island Light), MASSACHUSETTS, 1983

F-Flood, Dir. 254° True E-Ebb, Dir. 111° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0309	1.3E	16	0000	0416	1.1E
Sa	0606	0839	1.4F	Su	0628	0927	1.1F
	1153	1536	1.4E		1208	1627	1.2E
	1838	2125	1.4F		1852	2148	1.2F
2	0027	0420	1.3E	17	0036	0446	1.0E
Su	0659	0934	1.3F	M	0709	0930	1.2F
	1245	1648	1.4E		1247	1606	1.1E
	1930	2228	1.3F		1932	2153	1.2F
3	0120	0532	1.2E	18	0115	0418	1.0E
M	0755	1045	1.2F	Tu	0751	1005	1.2F
	1340	1800	1.3E		1328	1626	1.1E
	2026	2337	1.2F		2014	2229	1.2F
4	0216	0637	1.2E	19	0156	0447	1.0E
Tu	0852	1205	1.1F	W	0838	1048	1.2F
	1437	1905	1.2E		1412	1703	1.1E
	2122				2059	2313	1.2F
5		0043	1.1F	20	0241	0528	1.1E
W	0314	0739	1.2E	Th	0927	1135	1.2F
	0953	1313	1.0F		1500	1747	1.1E
	1537	2007	1.2E		2147		
	2221						
6		0146	1.1F	21		0000	1.3F
Th	0413	0839	1.2E	F	0329	0618	1.1E
	1056	1417	1.0F		1018	1226	1.2F
	1640	2107	1.2E		1551	1838	1.0E
	2321				2238		
7		0247	1.1F	22		0051	1.3F
F	0514	0938	1.3E	Sa	0421	0714	1.1E
	1158	1518	1.0F		1111	1320	1.1F
	1743	2205	1.2E		1646	1937	1.0E
					2330		
8	0020	0344	1.1F	23		0145	1.3F
Sa	0615	1034	1.4E	Su	0515	0818	1.1E
	1258	1615	1.1F		1207	1417	1.1F
	1850	2300	1.3E		1744	2043	1.0E
9	0116	0439	1.1F	24	0025	0242	1.3F
Su	0715	1127	1.4E	M	0611	0930	1.2E
	1353	1709	1.1F		1301	1519	1.2F
	1956	2352	1.3E		1842	2158	1.1E
10	0209	0530	1.2F	25	0120	0342	1.3F
M	0810	1218	1.5E	Tu	0707	1052	1.3E
	1444	1759	1.2F		1358	1631	1.2F
	2053				1941	2330	1.2E
11		0042	1.3E	26	0216	0447	1.3F
Tu	0258	0617	1.2F	W	0804	1204	1.4E
	0857	1306	1.5E		1451	1746	1.3F
	1530	1846	1.2F		2038		
	2136						
12		0129	1.3E	27		0036	1.3E
W	0341	0703	1.2F	Th	0310	0556	1.4F
	0938	1351	1.5E		0859	1259	1.5E
	1613	1930	1.2F		1544	1846	1.4F
	2212				2133		
13		0214	1.3E	28		0130	1.3E
Th	0425	0745	1.2F	F	0402	0659	1.4F
	1017	1435	1.4E		0952	1352	1.5E
	1654	2012	1.2F		1636	1941	1.5F
	2248				2227		
14		0257	1.2E	29		0223	1.4E
F	0507	0826	1.2F	Sa	0456	0756	1.5F
	1054	1516	1.3E		1045	1445	1.5E
	1734	2051	1.2F		1727	2034	1.5F
	2323				2319		
15		0338	1.1E	30		0316	1.4E
Sa	0547	0902	1.2F	Su	0549	0850	1.5F
	1131	1555	1.2E		1137	1538	1.5E
	1812	2126	1.2F		1818	2126	1.5F
				31	0010	0411	1.4E
				M	0641	0946	1.4F
					1229	1636	1.5E
					1909	2219	1.4F

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0102	0509	1.4E	16	0047	0348	1.1E
Tu	0735	1042	1.3F	W	0724	0942	1.3F
	1321	1734	1.4E		1302	1556	1.2E
	2000	2315	1.3F		1941	2201	1.4F
2	0154	0608	1.3E	17	0126	0417	1.2E
W	0830	1142	1.2F	Th	0808	1021	1.3F
	1416	1836	1.3E		1344	1629	1.2E
	2054				2024	2242	1.4F
3		0012	1.2F	18	0209	0456	1.2E
Th	0248	0709	1.3E	F	0855	1106	1.3F
	0928	1244	1.1F		1429	1712	1.1E
	1513	1937	1.2E		2110	2328	1.4F
	2150						
4		0112	1.2F	19	0255	0542	1.2E
F	0343	0809	1.3E	Sa	0946	1154	1.2F
	1027	1346	1.0F		1519	1801	1.1E
	1613	2038	1.2E		2202		
	2248						
5		0212	1.1F	20		0017	1.3F
Sa	0441	0909	1.3E	Su	0345	0633	1.2E
	1127	1446	1.0F		1040	1246	1.2F
	1715	2137	1.1E		1613	1857	1.0E
	2347				2258		
6		0311	1.0F	21		0110	1.3F
Su	0541	1005	1.3E	M	0440	0737	1.1E
	1228	1545	1.0F		1138	1342	1.1F
	1820	2233	1.2E		1712	2004	1.0E
					2356		
7	0044	0408	1.0F	22		0207	1.2F
M	0640	1101	1.3E	Tu	0538	0853	1.1E
	1325	1641	1.0F		1236	1445	1.1F
	1932	2327	1.2E		1814	2228	1.0E
8	0140	0502	1.1F	23	0055	0310	1.2F
Tu	0738	1153	1.4E	W	0639	1100	1.2E
	1419	1734	1.1F		1333	1613	1.1F
	2043				1918	2336	1.1E
9		0018	1.2E	24	0153	0430	1.2F
W	0231	0552	1.1F	Th	0740	1201	1.3E
	0830	1242	1.4E		1430	1741	1.2F
	1507	1822	1.1F		2018		
	2123						
10		0106	1.2E	25		0031	1.3E
Th	0319	0639	1.1F	F	0251	0559	1.3F
	0914	1329	1.4E		0839	1255	1.5E
	1550	1907	1.2F		1524	1839	1.3F
	2154				2116		
11		0152	1.2E	26		0124	1.4E
F	0402	0723	1.2F	Sa	0347	0659	1.4F
	0954	1412	1.4E		0935	1346	1.5E
	1630	1949	1.2F		1617	1932	1.5F
	2227				2210		
12		0234	1.2E	27		0214	1.5E
Sa	0444	0804	1.2F	Su	0439	0753	1.4F
	1031	1452	1.3E		1029	1435	1.6E
	1709	2028	1.2F		1707	2022	1.5F
	2300				2301		
13		0314	1.2E	28		0304	1.5E
Su	0524	0841	1.2F	M	0531	0844	1.5F
	1108	1528	1.3E		1120	1525	1.6E
	1746	2102	1.3F		1757	2111	1.5F
	2334				2351		
14		0348	1.1E				
M	0603	0909	1.2F				
	1144	1550	1.2E				
	1823	2123	1.3F				
15	0010	0354	1.1E				
Tu	0642	0912	1.2F				
	1222	1533	1.2E				
	1901	2127	1.3F				

Time meridian 75° W. 0000 is midnight. 1200 is noon.
At times of slack water before maximum ebb, the velocity actually averages 0.3 knot in a direction of 184° true.

F-Flood, Dir. 254° True E-Ebb, Dir. 111° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0354	1.5E	16		0313	1.2E
Tu	0622	0933	1.5F	W	0617	0853	1.3F
	1211	1615	1.5E		1157	1506	1.2E
	1845	2159	1.5F		1831	2101	1.4F
2	0040	0445	1.5E	17	0020	0324	1.3E
W	0713	1024	1.4F	Th	0658	0918	1.3F
	1301	1709	1.4E		1237	1531	1.2E
	1934	2248	1.4F		1911	2134	1.5F
3	0129	0540	1.4E	18	0059	0352	1.3E
Th	0805	1117	1.3F	F	0740	0957	1.4F
	1352	1806	1.3E		1319	1604	1.2E
	2026	2340	1.3F		1955	2216	1.5F
4	0219	0638	1.3E	19	0141	0430	1.3E
F	0859	1212	1.2F	Sa	0828	1040	1.3F
	1446	1906	1.2E		1403	1645	1.1E
	2118				2042	2300	1.4F
5		0035	1.2F	20	0226	0515	1.2E
Sa	0310	0737	1.3E	Su	0919	1127	1.2F
	0954	1311	1.1F		1452	1733	1.1E
	1542	2007	1.1E		2135	2349	1.3F
	2212						
6		0134	1.1F	21	0316	0607	1.2E
Su	0405	0837	1.2E	M	1013	1219	1.2F
	1051	1411	1.0F		1547	1830	1.0E
	1641	2106	1.1E		2231		
	2310						
7		0234	1.0F	22		0041	1.2F
M	0502	0935	1.2E	Tu	0411	0710	1.1E
	1151	1511	0.9F		1111	1315	1.1F
	1743	2204	1.1E		1647	1941	0.9E
					2332		
8	0009	0333	1.0F	23		0139	1.1F
Tu	0600	1031	1.2E	W	0511	0941	1.1E
	1250	1609	0.9F		1211	1420	1.0F
	1847	2259	1.1E		1752	2224	1.0E
9	0107	0430	1.0F	24	0034	0245	1.0F
W	0658	1125	1.3E	Th	0615	1051	1.2E
	1344	1703	1.0F		1311	1625	1.0F
	1951	2351	1.1E		1857	2323	1.1E
10	0200	0522	1.0F	25	0136	0448	1.1F
Th	0753	1215	1.3E	F	0719	1148	1.3E
	1435	1753	1.1F		1410	1730	1.2F
	2043				1959		
11		0040	1.2E	26		0017	1.3E
F	0250	0611	1.1F	Sa	0234	0553	1.2F
	0842	1301	1.3E		0820	1241	1.4E
	1520	1838	1.2F		1505	1826	1.3F
	2122				2057		
12		0125	1.2E	27		0109	1.4E
Sa	0337	0656	1.1F	Su	0330	0648	1.3F
	0925	1344	1.3E		0918	1332	1.5E
	1600	1921	1.2F		1557	1917	1.4F
	2157				2151		
13		0207	1.2E	28		0158	1.5E
Su	0418	0737	1.2F	M	0422	0740	1.4F
	1004	1424	1.3E		1011	1420	1.6E
	1639	1959	1.3F		1646	2005	1.5F
	2232				2241		
14		0245	1.2E	29		0247	1.6E
M	0458	0814	1.2F	Tu	0512	0828	1.5F
	1042	1458	1.3E		1102	1508	1.6E
	1717	2033	1.3F		1734	2052	1.5F
	2306				2329		
15		0316	1.2E	30		0334	1.6E
Tu	0538	0845	1.3F	W	0602	0916	1.5F
	1119	1509	1.2E		1151	1556	1.5E
	1753	2053	1.4F		1821	2137	1.5F
	2342						
				31	0016	0423	1.6E
				Th	0650	1003	1.4F
					1240	1645	1.4E
					1909	2222	1.4F

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0102	0514	1.5E	16	0034	0333	1.3E
F	0740	1051	1.3F	Sa	0718	0934	1.4F
	1328	1739	1.3E		1257	1546	1.2E
	1958	2309	1.3F		1930	2152	1.5F
2	0149	0608	1.4E	17	0117	0412	1.3E
Sa	0830	1142	1.2F	Su	0806	1019	1.3F
	1418	1836	1.2E		1343	1628	1.1E
	2048	2359	1.2F		2020	2237	1.4F
3	0237	0706	1.3E	18	0204	0457	1.2E
Su	0922	1237	1.1F	M	0858	1106	1.2F
	1510	1935	1.1E		1433	1717	1.0E
	2140				2114	2325	1.3F
4		0055	1.1F	19	0255	0551	1.1E
M	0328	0804	1.2E	Tu	0952	1158	1.1F
	1018	1335	1.0F		1529	1817	0.9E
	1605	2034	1.0E		2212		
	2235						
5		0155	1.0F	20		0020	1.1F
Tu	0422	0902	1.1E	W	0351	0659	1.1E
	1113	1434	0.9F		1050	1256	1.0F
	1703	2131	1.0E		1630	2104	0.9E
	2331				2314		
6		0255	0.9F	21		0120	1.0F
W	0518	0958	1.1E	Th	0452	0933	1.1E
	1210	1532	0.9F		1151	1454	0.9F
	1801	2226	1.0E		1734	2207	1.0E
7	0029	0352	0.9F	22	0018	0325	0.9F
Th	0615	1051	1.2E	F	0557	1035	1.2E
	1304	1626	1.0F		1251	1614	1.0F
	1858	2318	1.1E		1839	2306	1.2E
8	0124	0447	1.0F	23	0119	0440	1.0F
F	0710	1141	1.2E	Sa	0701	1131	1.3E
	1355	1716	1.0F		1350	1714	1.1F
	1950				1940		
9		0007	1.1E	24		0000	1.3E
Sa	0216	0536	1.0F	Su	0218	0539	1.1F
	0801	1228	1.2E		0802	1225	1.4E
	1441	1803	1.1F		1444	1808	1.3F
	2036				2037		
10		0052	1.2E	25		0051	1.4E
Su	0302	0622	1.1F	M	0313	0633	1.3F
	0848	1311	1.2E		0900	1314	1.5E
	1524	1845	1.2F		1536	1858	1.4F
	2118				2130		
11		0134	1.2E	26		0141	1.5E
M	0347	0704	1.2F	Tu	0405	0723	1.3F
	0931	1351	1.2E		0953	1403	1.5E
	1604	1925	1.3F		1624	1945	1.5F
	2157				2220		
12		0211	1.3E	27		0228	1.6E
Tu	0428	0742	1.3F	W	0453	0811	1.4F
	1012	1422	1.2E		1043	1450	1.5E
	1644	1957	1.4F		1711	2031	1.5F
	2235				2306		
13		0238	1.3E	28		0315	1.6E
W	0509	0813	1.3F	Th	0541	0857	1.4F
	1052	1427	1.2E		1131	1537	1.5E
	1723	2016	1.4F		1758	2115	1.4F
	2313				2351		
14		0240	1.3E	29		0402	1.5E
Th	0550	0826	1.4F	F	0629	0943	1.4F
	1132	1440	1.2E		1218	1625	1.4E
	1803	2034	1.5F		1843	2159	1.4F
	2353						
15		0301	1.3E	30	0036	0450	1.5E
F	0632	0856	1.4F	Sa	0716	1028	1.3F
	1214	1509	1.2E		1304	1716	1.2E
	1846	2110	1.5F		1930	2242	1.3F

Time meridian 75° W. 0000 is midnight. 1200 is noon.
At times of slack water before maximum ebb, the velocity actually averages 0.3 knot in a direction of 184° true.

BOSTON HARBOR (Deer Island Light), MASSACHUSETTS, 1983

F-Flood, Dir. 254° True E-Ebb, Dir. 111° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0120	0541	1.4E	16	0057	0402	1.3E
Su	0803	1116	1.2F	M	0747	1002	1.3F
	1350	1808	1.1E		1327	1621	1.1E
	2019	2326	1.2F		2002	2219	1.3F
2	0206	0634	1.3E	17	0146	0452	1.2E
M	0852	1205	1.1F	Tu	0839	1051	1.2F
	1439	1904	1.0E		1420	1717	1.0E
	2109				2059	2311	1.2F
3		0016	1.1F	18	0239	0553	1.1E
Tu	0253	0730	1.2E	W	0934	1147	1.1F
	0943	1258	1.0F		1516	1939	1.0E
	1529	2000	1.0E		2158		
	2201						
4		0113	1.0F	19		0007	1.1F
W	0344	0826	1.1E	Th	0337	0810	1.1E
	1037	1354	1.0F		1032	1304	1.0F
	1622	2055	1.0E		1616	2048	1.0E
	2256				2259		
5		0212	0.9F	20		0157	0.9F
Th	0437	0920	1.1E	F	0438	0917	1.1E
	1129	1449	1.0F		1132	1453	1.0F
	1716	2148	1.0E		1718	2149	1.1E
	2350						
6		0309	0.9F	21	0001	0322	1.0F
F	0531	1012	1.1E	Sa	0541	1016	1.2E
	1220	1542	1.0F		1231	1557	1.1F
	1809	2240	1.0E		1820	2246	1.2E
7	0043	0404	1.0F	22	0102	0425	1.0F
Sa	0625	1102	1.1E	Su	0644	1112	1.3E
	1310	1633	1.1F		1329	1654	1.1F
	1901	2328	1.1E		1919	2341	1.3E
8	0135	0454	1.0F	23	0200	0521	1.1F
Su	0718	1149	1.1E	M	0745	1205	1.3E
	1358	1719	1.2F		1422	1747	1.2F
	1949				2016		
9		0013	1.2E	24		0032	1.4E
M	0223	0541	1.1F	Tu	0255	0614	1.2F
	0807	1231	1.2E		0842	1256	1.4E
	1442	1802	1.2F		1513	1837	1.3F
	2034				2109		
10		0055	1.2E	25		0122	1.5E
Tu	0310	0624	1.2F	W	0346	0704	1.3F
	0854	1309	1.2E		0935	1345	1.4E
	1527	1841	1.3F		1602	1924	1.3F
	2118				2157		
11		0130	1.3E	26	0210	1.5E	
W	0355	0702	1.3F	Th	0434	0752	1.3F
	0939	1337	1.2E		1025	1433	1.4E
	1610	1912	1.4F		1649	2010	1.4F
	2201				2243		
12		0153	1.3E	27		0257	1.5E
Th	0439	0735	1.3F	F	0521	0838	1.3F
	1023	1348	1.2E		1111	1520	1.4E
	1653	1935	1.4F		1734	2054	1.3F
	2243				2327		
13		0209	1.3E	28		0343	1.5E
F	0523	0800	1.4F	Sa	0607	0923	1.3F
	1107	1416	1.2E		1156	1607	1.3E
	1738	2008	1.5F		1820	2137	1.3F
	2326						
14		0240	1.4E	29	0010	0429	1.4E
Sa	0609	0834	1.4F	Su	0651	1007	1.2F
	1152	1452	1.2E		1240	1654	1.2E
	1822	2047	1.5F		1906	2219	1.2F
15	0011	0318	1.4E	30	0053	0517	1.3E
Su	0657	0916	1.4F	M	0738	1051	1.1F
	1238	1534	1.2E		1324	1743	1.1E
	1911	2132	1.4F		1951	2301	1.1F
				31	0136	0605	1.2E
				Tu	0823	1136	1.1F
					1409	1833	1.0E
					2040	2340	1.1F

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0221	0655	1.1E	16	0226	0647	1.2E
W	0910	1221	1.0F	Th	0917	1221	1.1F
	1455	1925	1.0E		1503	1927	1.1E
	2129				2142		
2		0018	1.0F	17		0048	1.1F
Th	0309	0745	1.1E	F	0324	0755	1.2E
	0959	1308	1.0F		1013	1332	1.1F
	1543	2015	1.0E		1601	2029	1.1E
	2220				2242		
3		0109	1.0F	18		0201	1.0F
F	0358	0836	1.0E	Sa	0424	0857	1.2E
	1048	1357	1.0F		1111	1435	1.1F
	1632	2105	1.0E		1701	2129	1.2E
	2311				2343		
4		0210	1.0F	19		0305	1.0F
Sa	0450	0927	1.0E	Su	0526	0955	1.2E
	1137	1447	1.1F		1209	1535	1.1F
	1723	2155	1.0E		1800	2226	1.3E
5	0002	0306	1.0F	20	0043	0404	1.0F
Su	0542	1014	1.0E	M	0628	1051	1.2E
	1226	1535	1.1F		1306	1631	1.1F
	1813	2242	1.1E		1859	2320	1.4E
6	0054	0358	1.1F	21	0141	0500	1.1F
M	0634	1059	1.0E	Tu	0728	1145	1.3E
	1313	1619	1.2F		1400	1724	1.2F
	1903	2325	1.1E		1954		
7	0144	0446	1.1F	22		0012	1.4E
Tu	0725	1139	1.1E	W	0235	0553	1.1F
	1401	1700	1.3F		0826	1237	1.3E
	1951				1451	1814	1.2F
					2047		
8		0005	1.2E	23		0102	1.5E
W	0233	0530	1.2F	Th	0327	0643	1.2F
	0816	1210	1.1E		0919	1326	1.3E
	1449	1738	1.3F		1540	1903	1.2F
	2039				2135		
9		0036	1.3E	24		0151	1.5E
Th	0321	0612	1.3F	F	0414	0732	1.2F
	0905	1235	1.2E		1008	1414	1.3E
	1537	1816	1.4F		1628	1949	1.2F
	2126				2220		
10		0106	1.3E	25		0238	1.5E
F	0409	0651	1.3F	Sa	0500	0818	1.2F
	0953	1314	1.2E		1052	1501	1.3E
	1624	1858	1.4F		1712	2034	1.2F
	2213				2303		
11		0142	1.4E	26		0324	1.4E
Sa	0458	0733	1.4F	Su	0544	0902	1.2F
	1042	1357	1.2E		1134	1547	1.2E
	1712	1942	1.5F		1758	2117	1.2F
	2301				2345		
12		0224	1.4E	27		0408	1.4E
Su	0547	0816	1.4F	M	0628	0946	1.2F
	1131	1444	1.2E		1216	1633	1.2E
	1802	2029	1.4F		1841	2158	1.1F
	2350						
13		0312	1.4E	28	0026	0452	1.3E
M	0637	0904	1.3F	Tu	0710	1027	1.1F
	1221	1535	1.2E		1257	1717	1.1E
	1854	2118	1.4F		1927	2236	1.1F
14	0040	0404	1.3E	29	0108	0535	1.2E
Tu	0728	0955	1.3F	W	0753	1105	1.1F
	1313	1637	1.1E		1338	1800	1.0E
	1948	2210	1.3F		2011	2301	1.1F
15	0132	0513	1.2E	30	0150	0616	1.1E
W	0821	1054	1.2F	Th	0838	1135	1.1F
	1407	1817	1.1E		1421	1843	1.0E
	2044	2309	1.2F		2058	2320	1.1F

Time meridian 75° W. 0000 is midnight. 1200 is noon.
At times of slack water before maximum ebb, the velocity actually averages 0.3 knot in a direction of 184° true.

F-Flood, Dir. 254° True E-Ebb, Dir. 111° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0235	0650	1.0E
F	0921	1149	1.1F
	1505	1921	1.0E
	2145		
2		0002	1.1F
Sa	0322	0637	1.0E
	1008	1229	1.1F
	1552	1909	1.0E
	2234		
3		0050	1.1F
Su	0411	0717	1.0E
	1054	1315	1.2F
	1640	1953	1.0E
	2324		
4		0140	1.1F
M	0502	0806	1.0E
	1142	1405	1.2F
	1730	2045	1.1E
5	0016	0234	1.1F
Tu	0554	0901	1.0E
	1232	1456	1.3F
	1821	2142	1.1E
6	0108	0329	1.2F
W	0647	0959	1.1E
	1323	1549	1.3F
	1912	2237	1.2E
7	0159	0424	1.2F
Th	0740	1056	1.1E
	1415	1642	1.4F
	2003	2335	1.3E
8	0250	0520	1.3F
F	0833	1154	1.2E
	1507	1735	1.4F
	2055		
9		0029	1.4E
Sa	0341	0617	1.3F
	0927	1253	1.2E
	1559	1829	1.4F
	2147		
10		0123	1.4E
Su	0432	0713	1.4F
	1019	1352	1.2E
	1650	1923	1.4F
	2238		
11		0218	1.4E
M	0523	0808	1.4F
	1111	1453	1.3E
	1742	2018	1.4F
	2330		
12		0316	1.4E
Tu	0616	0907	1.4F
	1204	1557	1.3E
	1837	2117	1.3F
13	0022	0419	1.4E
W	0708	1007	1.3F
	1257	1701	1.3E
	1931	2224	1.3F
14	0116	0526	1.3E
Th	0800	1109	1.3F
	1351	1804	1.2E
	2027	2335	1.2F
15	0211	0631	1.3E
F	0855	1211	1.2F
	1446	1906	1.2E
	2124		
16		0040	1.1F
Sa	0309	0733	1.2E
	0950	1312	1.2F
	1542	2006	1.2E
	2223		
17		0143	1.1F
Su	0408	0834	1.2E
	1048	1412	1.2F
	1640	2106	1.3E
	2322		
18		0243	1.1F
M	0509	0933	1.2E
	1145	1510	1.1F
	1738	2203	1.3E
19	0022	0341	1.1F
Tu	0611	1029	1.2E
	1241	1606	1.1F
	1836	2258	1.4E
20	0120	0438	1.1F
W	0713	1124	1.2E
	1337	1700	1.1F
	1933	2351	1.4E
21	0214	0531	1.1F
Th	0812	1216	1.2E
	1429	1751	1.1F
	2025		
22		0041	1.4E
F	0306	0622	1.1F
	0905	1306	1.3E
	1519	1840	1.1F
	2114		
23		0130	1.4E
Sa	0352	0710	1.1F
	0952	1355	1.3E
	1607	1928	1.1F
	2158		
24		0217	1.4E
Su	0439	0756	1.2F
	1033	1440	1.2E
	1651	2012	1.1F
	2240		
25		0302	1.4E
M	0520	0839	1.2F
	1112	1525	1.2E
	1735	2055	1.1F
	2320		
26		0345	1.3E
Tu	0601	0921	1.2F
	1150	1607	1.2E
	1818	2134	1.1F
27	0000	0425	1.2E
W	0641	0958	1.1F
	1228	1648	1.1E
	1859	2207	1.1F
28	0039	0502	1.1E
Th	0721	1029	1.1F
	1306	1724	1.1E
	1941	2212	1.1F
29	0119	0503	1.1E
F	0802	1030	1.2F
	1347	1710	1.0E
	2026	2242	1.1F
30	0202	0505	1.1E
Sa	0845	1104	1.2F
	1429	1728	1.1E
	2111	2323	1.2F
31	0247	0540	1.1E
Su	0929	1146	1.3F
	1514	1808	1.1E
	2159		

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0011	1.2F
M	0335	0624	1.1E
	1017	1233	1.3F
	1601	1855	1.1E
	2249		
2		0101	1.2F
Tu	0425	0714	1.1E
	1106	1323	1.3F
	1651	1950	1.2E
	2340		
3		0153	1.2F
W	0518	0811	1.0E
	1158	1416	1.3F
	1744	2049	1.2E
4	0035	0249	1.2F
Th	0614	0913	1.1E
	1251	1511	1.3F
	1838	2154	1.2E
5	0129	0347	1.2F
F	0710	1021	1.1E
	1347	1608	1.3F
	1933	2303	1.3E
6	0222	0450	1.3F
Sa	0807	1138	1.2E
	1440	1708	1.4F
	2028		
7		0015	1.4E
Su	0317	0558	1.3F
	0903	1254	1.2E
	1536	1809	1.4F
	2123		
8		0118	1.4E
M	0409	0703	1.4F
	0958	1355	1.3E
	1630	1915	1.4F
	2217		
9		0216	1.5E
Tu	0500	0802	1.4F
	1051	1451	1.4E
	1723	2018	1.4F
	2310		
10		0311	1.5E
W	0552	0858	1.4F
	1144	1546	1.4E
	1818	2118	1.4F
11	0004	0408	1.4E
Th	0644	0954	1.4F
	1237	1643	1.4E
	1911	2218	1.3F
12	0058	0507	1.4E
F	0737	1050	1.4F
	1329	1741	1.4E
	2006	2318	1.3F
13	0152	0607	1.3E
Sa	0830	1147	1.3F
	1423	1841	1.3E
	2102		
14		0018	1.2F
Su	0248	0708	1.3E
	0924	1246	1.2F
	1518	1941	1.3E
	2200		
15		0118	1.1F
M	0347	0809	1.2E
	1020	1344	1.2F
	1614	2040	1.3E
	2259		
16		0218	1.1F
Tu	0447	0908	1.2E
	1119	1443	1.1F
	1712	2138	1.3E
	2358		
17		0317	1.0F
W	0550	1006	1.2E
	1216	1539	1.1F
	1811	2234	1.3E
18	0056	0414	1.0F
Th	0654	1101	1.2E
	1311	1635	1.1F
	1909	2327	1.4E
19	0150	0508	1.1F
F	0801	1154	1.2E
	1407	1727	1.1F
	2003		
20		0019	1.4E
Sa	0241	0558	1.1F
	0856	1244	1.2E
	1457	1817	1.1F
	2052		
21		0107	1.4E
Su	0329	0646	1.1F
	0935	1331	1.2E
	1543	1903	1.1F
	2135		
22		0153	1.4E
M	0412	0731	1.2F
	1011	1416	1.2E
	1628	1947	1.1F
	2215		
23		0236	1.3E
Tu	0452	0812	1.2F
	1046	1459	1.2E
	1710	2028	1.1F
	2253		
24		0317	1.3E
W	0531	0851	1.2F
	1121	1539	1.2E
	1750	2105	1.1F
	2331		
25		0354	1.2E
Th	0610	0925	1.2F
	1157	1614	1.1E
	1830	2132	1.1F
26	0009	0418	1.1E
F	0648	0936	1.2F
	1233	1624	1.1E
	1911	2134	1.2F
27	0049	0353	1.1E
Sa	0728	0950	1.3F
	1312	1614	1.1E
	1954	2208	1.2F
28	0130	0421	1.1E
Su	0809	1027	1.3F
	1354	1646	1.2E
	2039	2250	1.2F
29	0214	0459	1.1E
M	0853	1111	1.3F
	1438	1728	1.2E
	2128	2337	1.2F
30	0302	0544	1.1E
Tu	0941	1159	1.3F
	1526	1817	1.2E
	2219		
31		0027	1.2F
W	0353	0637	1.0E
	1034	1249	1.3F
	1618	1913	1.2E
	2311		

Time meridian 75° W. 0000 is midnight. 1200 is noon.
At times of slack water before maximum ebb, the velocity actually averages 0.3 knot in a direction of 184° true.

BOSTON HARBOR (Deer Island Light), MASSACHUSETTS, 1983

F-Flood, Dir. 254° True E-Ebb, Dir. 111° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0121	1.2F
Th	0448	0736	1.0E
	1129	1343	1.3F
	1712	2016	1.2E
2	0008	0218	1.2F
F	0546	0845	1.0E
	1227	1441	1.3F
	1810	2131	1.2E
3	0103	0321	1.2F
Sa	0646	1016	1.1E
	1323	1543	1.3F
	1908	2306	1.3E
4	0159	0438	1.2F
Su	0745	1153	1.2E
	1420	1654	1.3F
	2006		
5		0015	1.4E
M	0253	0556	1.3F
	0843	1248	1.3E
	1516	1812	1.3F
	2102		
6		0110	1.5E
Tu	0347	0655	1.4F
	0938	1342	1.4E
	1610	1914	1.4F
	2158		
7		0203	1.5E
W	0438	0748	1.5F
	1031	1433	1.5E
	1702	2009	1.4F
	2251		
8		0254	1.5E
Th	0529	0839	1.5F
	1122	1525	1.5E
	1756	2104	1.4F
	2343		
9		0347	1.5E
F	0619	0930	1.5F
	1213	1619	1.5E
	1849	2157	1.4F
10	0036	0443	1.4E
Sa	0710	1023	1.4F
	1304	1715	1.4E
	1941	2253	1.3F
11	0129	0541	1.3E
Su	0801	1118	1.3F
	1355	1813	1.4E
	2037	2351	1.2F
12	0224	0642	1.2E
M	0857	1215	1.2F
	1448	1913	1.3E
	2132		
13		0051	1.1F
Tu	0321	0742	1.2E
	0951	1315	1.1F
	1544	2013	1.3E
	2231		
14		0151	1.0F
W	0421	0842	1.1E
	1050	1414	1.1F
	1642	2111	1.3E
	2330		
15		0250	1.0F
Th	0524	0940	1.1E
	1149	1512	1.0F
	1741	2208	1.3E
16	0029	0347	1.0F
F	0630	1036	1.2E
	1247	1608	1.0F
	1840	2302	1.3E
17	0122	0441	1.1F
Sa	0740	1128	1.2E
	1340	1701	1.1F
	1936	2353	1.4E
18	0213	0531	1.1F
Su	0833	1218	1.2E
	1430	1750	1.1F
	2026		
19		0040	1.4E
M	0300	0617	1.2F
	0909	1305	1.3E
	1518	1836	1.1F
	2109		
20		0125	1.3E
Tu	0341	0701	1.2F
	0942	1349	1.3E
	1600	1918	1.2F
	2148		
21		0207	1.3E
W	0421	0741	1.2F
	1015	1429	1.2E
	1641	1958	1.2F
	2225		
22		0245	1.2E
Th	0459	0817	1.3F
	1049	1506	1.2E
	1720	2032	1.2F
	2302		
23		0316	1.2E
F	0537	0845	1.3F
	1124	1531	1.2E
	1800	2048	1.2F
	2339		
24		0302	1.1E
Sa	0614	0845	1.3F
	1201	1514	1.2E
	1840	2101	1.2F
25	0018	0315	1.1E
Su	0654	0914	1.3F
	1240	1537	1.2E
	1923	2137	1.2F
26	0100	0346	1.1E
M	0737	0955	1.4F
	1321	1611	1.2E
	2009	2220	1.2F
27	0144	0426	1.1E
Tu	0822	1039	1.3F
	1406	1655	1.2E
	2059	2307	1.2F
28	0232	0513	1.0E
W	0913	1128	1.3F
	1455	1745	1.2E
	2150	2358	1.2F
29	0326	0607	1.0E
Th	1008	1220	1.2F
	1549	1844	1.1E
	2248		
30		0053	1.1F
F	0423	0712	1.0E
	1107	1316	1.2F
	1646	1955	1.1E
	2344		

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0154	1.1F
Sa	0524	0841	1.0E
	1206	1418	1.1F
	1747	2206	1.2E
2	0041	0313	1.1F
Su	0627	1046	1.1E
	1305	1535	1.1F
	1848	2311	1.3E
3	0139	0449	1.2F
M	0727	1142	1.2E
	1402	1710	1.2F
	1948		
4		0005	1.4E
Tu	0232	0548	1.3F
	0824	1235	1.4E
	1458	1810	1.3F
	2045		
5		0056	1.5E
W	0325	0640	1.4F
	0918	1326	1.5E
	1551	1904	1.4F
	2139		
6		0146	1.5E
Th	0415	0730	1.5F
	1009	1414	1.5E
	1642	1954	1.4F
	2231		
7		0236	1.5E
F	0504	0818	1.5F
	1059	1504	1.6E
	1733	2044	1.4F
	2322		
8		0326	1.5E
Sa	0553	0906	1.5F
	1148	1555	1.5E
	1824	2134	1.4F
9	0012	0419	1.4E
Su	0642	0954	1.4F
	1236	1649	1.5E
	1917	2226	1.3F
10	0104	0516	1.3E
M	0733	1046	1.3F
	1326	1746	1.4E
	2009	2322	1.2F
11	0156	0615	1.2E
Tu	0827	1142	1.2F
	1417	1845	1.3E
	2103		
12		0020	1.1F
W	0252	0715	1.1E
	0921	1242	1.1F
	1511	1944	1.3E
	2200		
13		0121	1.0F
Th	0350	0814	1.1E
	1019	1343	1.0F
	1607	2042	1.2E
	2259		
14		0220	1.0F
F	0450	0911	1.1E
	1119	1442	1.0F
	1706	2138	1.2E
	2357		
15		0317	1.0F
Sa	0551	1007	1.1E
	1216	1538	1.0F
	1804	2232	1.3E
16	0050	0410	1.1F
Su	0651	1059	1.2E
	1310	1631	1.0F
	1900	2322	1.3E
17	0139	0459	1.1F
M	0744	1148	1.2E
	1400	1719	1.1F
	1951		
18		0009	1.3E
Tu	0224	0545	1.2F
	0827	1234	1.3E
	1446	1804	1.2F
	2036		
19		0053	1.3E
W	0307	0627	1.3F
	0904	1316	1.3E
	1529	1846	1.2F
	2116		
20		0133	1.3E
Th	0346	0706	1.3F
	0940	1355	1.3E
	1609	1924	1.2F
	2154		
21		0209	1.2E
F	0424	0739	1.3F
	1016	1426	1.2E
	1649	1955	1.3F
	2232		
22		0224	1.1E
Sa	0502	0757	1.4F
	1052	1429	1.2E
	1730	2007	1.3F
	2311		
23		0220	1.1E
Su	0541	0811	1.4F
	1130	1439	1.2E
	1811	2032	1.3F
	2350		
24		0245	1.1E
M	0623	0845	1.4F
	1210	1508	1.3E
	1856	2110	1.3F
25	0033	0319	1.1E
Tu	0708	0927	1.4F
	1252	1545	1.2E
	1942	2153	1.3F
26	0119	0401	1.1E
W	0757	1012	1.3F
	1339	1630	1.2E
	2033	2241	1.2F
27	0208	0450	1.0E
Th	0850	1101	1.2F
	1429	1723	1.1E
	2128	2333	1.1F
28	0303	0548	1.0E
F	0948	1154	1.1F
	1525	1826	1.1E
	2225		
29		0030	1.0F
Sa	0403	0701	0.9E
	1048	1254	1.0F
	1625	2056	1.1E
	2323		
30		0139	1.0F
Su	0506	0935	1.0E
	1149	1406	1.0F
	1729	2202	1.2E
31	0022	0339	1.1F
M	0608	1035	1.2E
	1249	1605	1.1F
	1831	2258	1.3E

Time meridian 75° W. 0000 is midnight. 1200 is noon.
At times of slack water before maximum ebb, the velocity actually averages 0.3 knot in a direction of 184° true.

F-Flood, Dir. 254° True E-Ebb, Dir. 111° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0119	0440	1.2F	16	0144	0507	1.2F
Tu	0708	1128	1.3E	W	0739	1158	1.2E
	1347	1706	1.2F		1410	1728	1.2F
	1931	2351	1.4E		1956		
2	0212	0534	1.3F	17		0017	1.2E
W	0805	1219	1.4E	Th	0228	0549	1.3F
	1441	1759	1.3F		0822	1239	1.3E
	2028				1454	1810	1.2F
					2040		
3		0041	1.5E	18		0056	1.2E
Th	0304	0625	1.4F	F	0309	0627	1.3F
	0858	1309	1.5E		0902	1316	1.3E
	1533	1850	1.4F		1537	1847	1.3F
	2122				2122		
4		0130	1.5E	19		0126	1.2E
F	0353	0712	1.5F	Sa	0350	0658	1.4F
	0948	1357	1.6E		0941	1341	1.3E
	1623	1938	1.4F		1619	1918	1.3F
	2213				2203		
5		0219	1.5E	20		0131	1.2E
Sa	0441	0758	1.5F	Su	0431	0716	1.4F
	1036	1445	1.6E		1021	1347	1.3E
	1712	2026	1.4F		1701	1937	1.4F
	2302				2244		
6		0307	1.4E	21		0151	1.2E
Su	0529	0844	1.5F	M	0513	0742	1.5F
	1123	1534	1.5E		1102	1413	1.3E
	1801	2113	1.4F		1746	2007	1.4F
	2350				2326		
7		0358	1.4E	22		0224	1.2E
M	0618	0929	1.4F	Tu	0558	0821	1.5F
	1210	1625	1.5E		1144	1448	1.3E
	1850	2202	1.3F		1830	2048	1.3F
8	0039	0452	1.3E	23	0011	0302	1.1E
Tu	0708	1017	1.3F	W	0645	0903	1.4F
	1257	1719	1.4E		1229	1528	1.3E
	1941	2254	1.2F		1919	2132	1.3F
9	0129	0548	1.2E	24	0058	0347	1.1E
W	0759	1109	1.1F	Th	0736	0950	1.3F
	1346	1815	1.3E		1317	1615	1.2E
	2033	2349	1.1F		2010	2221	1.2F
10	0221	0646	1.1E	25	0150	0438	1.0E
Th	0851	1207	1.0F	F	0830	1040	1.2F
	1437	1913	1.2E		1409	1711	1.1E
	2128				2107	2313	1.1F
11		0047	1.0F	26	0245	0541	0.9E
F	0315	0742	1.0E	Sa	0929	1135	1.1F
	0948	1307	1.0F		1506	1823	1.1E
	1531	2009	1.2E		2203		
	2222						
12		0145	1.0F	27		0013	1.0F
Sa	0411	0838	1.0E	Su	0345	0817	1.0E
	1043	1406	0.9F		1030	1239	1.0F
	1626	2104	1.2E		1608	2045	1.1E
	2318				2302		
13		0240	1.0F	28		0218	1.0F
Su	0506	0933	1.1E	M	0447	0919	1.1E
	1140	1502	0.9F		1132	1449	1.0F
	1722	2157	1.2E		1711	2146	1.2E
14	0010	0333	1.0F	29	0002	0326	1.1F
M	0601	1024	1.1E	Tu	0549	1017	1.2E
	1233	1555	1.0F		1233	1555	1.0F
	1818	2247	1.2E		1814	2243	1.2E
15	0059	0421	1.1F	30	0059	0425	1.2F
Tu	0653	1113	1.2E	W	0649	1112	1.3E
	1323	1643	1.1F		1331	1652	1.1F
	1909	2335	1.2E		1915	2336	1.3E

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0153	0518	1.3F	16	0148	0504	1.3F
Th	0746	1204	1.4E	F	0739	1200	1.2E
	1426	1745	1.2F		1419	1730	1.2F
	2013				2002		
2		0027	1.4E	17		0015	1.1E
F	0245	0608	1.3F	Sa	0232	0542	1.3F
	0839	1253	1.5E		0824	1234	1.3E
	1518	1835	1.3F		1504	1809	1.3F
	2107				2049		
3		0116	1.4E	18		0041	1.2E
Sa	0334	0655	1.4F	Su	0318	0613	1.4F
	0929	1341	1.6E		0908	1258	1.3E
	1607	1923	1.3F		1550	1843	1.3F
	2157				2134		
4		0204	1.4E	19		0059	1.2E
Su	0421	0741	1.4F	M	0402	0642	1.5F
	1016	1428	1.6E		0953	1320	1.4E
	1653	2009	1.3F		1636	1913	1.4F
	2245				2220		
5		0252	1.4E	20		0132	1.2E
M	0509	0826	1.4F	Tu	0449	0720	1.5F
	1101	1516	1.5E		1037	1356	1.4E
	1740	2056	1.3F		1721	1950	1.4F
	2331				2306		
6		0341	1.3E	21		0211	1.2E
Tu	0556	0910	1.3F	W	0537	0802	1.5F
	1146	1604	1.4E		1123	1436	1.4E
	1828	2142	1.2F		1809	2031	1.4F
					2353		
7	0017	0430	1.2E	22		0255	1.2E
W	0642	0955	1.2F	Th	0627	0847	1.4F
	1230	1654	1.4E		1210	1521	1.3E
	1915	2228	1.2F		1859	2118	1.3F
8	0103	0521	1.2E	23	0042	0344	1.1E
Th	0731	1040	1.1F	F	0718	0934	1.3F
	1316	1745	1.3E		1300	1611	1.2E
	2003	2317	1.1F		1950	2207	1.2F
9	0150	0614	1.1E	24	0134	0441	1.1E
F	0821	1129	1.0F	Sa	0812	1026	1.2F
	1403	1838	1.2E		1353	1712	1.2E
	2052				2044	2301	1.1F
10		0008	1.0F	25	0229	0647	1.0E
Sa	0238	0707	1.0E	Su	0910	1123	1.1F
	0912	1224	1.0F		1450	1917	1.1E
	1453	1931	1.1E		2140		
	2142						
11		0101	1.0F	26		0014	1.1F
Su	0329	0801	1.0E	M	0327	0757	1.1E
	1007	1321	0.9F		1011	1316	1.0F
	1544	2025	1.1E		1550	2026	1.1E
	2233				2240		
12		0154	1.0F	27		0200	1.0F
M	0420	0853	1.0E	Tu	0427	0859	1.1E
	1059	1417	0.9F		1113	1434	1.0F
	1638	2117	1.0E		1663	2126	1.1E
	2323				2339		
13		0246	1.0F	28		0305	1.1F
Tu	0511	0944	1.0E	W	0527	0957	1.2E
	1151	1510	1.0F		1215	1537	1.0F
	1731	2206	1.0E		1756	2224	1.2E
14	0013	0335	1.1F	29	0038	0404	1.1F
W	0602	1033	1.1E	Th	0628	1053	1.3E
	1242	1600	1.0F		1314	1635	1.1F
	1824	2253	1.1E		1859	2319	1.3E
15	0101	0421	1.2F	30	0133	0459	1.2F
Th	0651	1118	1.2E	F	0726	1147	1.4E
	1331	1646	1.1F		1410	1729	1.2F
	1914	2336	1.1E		1959		
				31		0011	1.3E
				Sa	0227	0550	1.2F
					0821	1237	1.5E
					1502	1820	1.2F
					2054		

Time meridian 75° W. 0000 is midnight. 1200 is noon.
At times of slack water before maximum ebb, the velocity actually averages 0.3 knot in a direction of 184° true.

CAPE COD CANAL (RR. Bridge), MASSACHUSETTS, 1983

F-Flood, Dir. 070° True E-Ebb, Dir. 250° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0118	4.8E
Sa	0419	0718	4.6F
	1029	1337	5.1E
	1646	1952	4.9F
	2322		
2		0209	4.7E
Su	0511	0807	4.5F
	1120	1427	5.1E
	1737	2045	4.9F
3	0015	0300	4.7E
M	0604	0859	4.4F
	1214	1519	5.0E
	1830	2138	4.7F
4	0109	0354	4.6E
Tu	0659	0956	4.3F
	1311	1613	4.8E
	1926	2233	4.6F
5	0205	0449	4.4E
W	0757	1055	4.1F
	1411	1709	4.6E
	2023	2333	4.3F
6	0302	0547	4.3E
Th	0857	1159	3.9F
	1515	1809	4.4E
	2123		
7		0035	4.1F
F	0400	0644	4.2E
	1000	1305	3.8F
	1621	1909	4.2E
	2224		
8		0140	4.0F
Sa	0457	0743	4.1E
	1102	1418	3.8F
	1725	2009	4.0E
	2325		
9		0242	3.9F
Su	0551	0842	4.1E
	1201	1521	3.9F
	1826	2108	4.0E
10	0022	0343	3.8F
M	0643	0934	4.2E
	1254	1619	4.0F
	1921	2203	4.0E
11	0115	0432	3.8F
Tu	0730	1023	4.3E
	1343	1706	4.1F
	2011	2248	4.0E
12	0202	0513	3.9F
W	0815	1106	4.3E
	1427	1747	4.1F
	2057	2336	4.0E
13	0244	0548	3.9F
Th	0856	1149	4.4E
	1508	1824	4.2F
	2139		
14		0018	4.1E
F	0324	0627	3.9F
	0935	1231	4.5E
	1546	1857	4.2F
	2219		
15		0058	4.1E
Sa	0402	0700	3.9F
	1013	1310	4.5E
	1623	1928	4.2F
	2257		
16		0137	4.1E
Su	0438	0733	3.9F
	1049	1349	4.5E
	1700	2003	4.2F
	2335		
17		0216	4.1E
M	0515	0810	3.9F
	1126	1431	4.4E
	1737	2039	4.2F
18	0012	0258	4.1E
Tu	0553	0847	3.9F
	1204	1512	4.4E
	1815	2116	4.1F
19	0050	0341	4.0E
W	0633	0928	3.8F
	1244	1555	4.3E
	1856	2158	4.0F
20	0131	0426	4.0E
Th	0717	1013	3.8F
	1329	1642	4.1E
	1940	2239	3.9F
21	0214	0512	3.9E
F	0805	1102	3.7F
	1421	1733	4.0E
	2029	2330	3.9F
22	0303	0603	3.9E
Sa	0858	1153	3.7F
	1521	1828	4.0E
	2124		
23		0025	3.8F
Su	0357	0658	4.0E
	0957	1255	3.7F
	1626	1926	3.9E
	2224		
24		0124	3.8F
M	0454	0756	4.1E
	1059	1400	3.9F
	1734	2027	4.0E
	2326		
25		0226	3.9F
Tu	0551	0855	4.3E
	1201	1505	4.1F
	1838	2127	4.1E
26	0028	0327	4.0F
W	0648	0950	4.5E
	1301	1609	4.3F
	1938	2222	4.3E
27	0126	0427	4.2F
Th	0742	1047	4.8E
	1357	1706	4.6F
	2033	2317	4.5E
28	0222	0522	4.4F
F	0835	1138	5.0E
	1450	1800	4.8F
	2125		
29		0011	4.7E
Sa	0314	0613	4.5F
	0926	1229	5.1E
	1541	1850	4.9F
	2216		
30		0101	4.8E
Su	0405	0704	4.6F
	1016	1320	5.2E
	1632	1939	5.0F
	2305		
31		0151	4.8E
M	0455	0755	4.7F
	1107	1409	5.2E
	1721	2029	4.9F
	2354		

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0240	4.8E
Tu	0545	0844	4.6F
	1158	1459	5.1E
	1811	2117	4.8F
2	0043	0329	4.7E
W	0635	0935	4.4F
	1251	1549	4.8E
	1901	2207	4.6F
3	0133	0420	4.5E
Th	0727	1029	4.2F
	1347	1643	4.6E
	1954	2259	4.3F
4	0225	0511	4.3E
F	0823	1122	4.0F
	1447	1737	4.3E
	2049	2353	4.0F
5	0320	0607	4.1E
Sa	0922	1226	3.8F
	1550	1835	4.0E
	2148		
6		0054	3.7F
Su	0417	0706	4.0E
	1023	1335	3.7F
	1655	1936	3.8E
	2250		
7		0201	3.6F
M	0515	0804	3.9E
	1126	1449	3.7F
	1759	2035	3.7E
	2351		
8		0308	3.5F
Tu	0611	0901	4.0E
	1224	1552	3.8F
	1857	2137	3.7E
9	0048	0406	3.6F
W	0703	0954	4.1E
	1317	1641	3.9F
	1949	2227	3.8E
10	0138	0451	3.7F
Th	0750	1043	4.2E
	1404	1728	4.0F
	2035	2313	3.9E
11	0223	0532	3.8F
F	0834	1129	4.3E
	1446	1805	4.1F
	2116	2354	4.1E
12	0303	0607	3.9F
Sa	0914	1208	4.4E
	1524	1837	4.2F
	2155		
13		0033	4.2E
Su	0340	0640	4.0F
	0952	1248	4.5E
	1601	1906	4.3F
	2231		
14		0112	4.2E
M	0415	0714	4.1F
	1028	1327	4.6E
	1636	1939	4.3F
	2306		
15		0150	4.3E
Tu	0450	0747	4.1F
	1104	1406	4.6E
	1711	2011	4.3F
	2340		
16		0230	4.3E
W	0526	0822	4.1F
	1140	1447	4.5E
	1747	2048	4.3F
17	0015	0309	4.3E
Th	0603	0901	4.1F
	1218	1528	4.4E
	1826	2125	4.2F
18	0051	0352	4.2E
F	0644	0942	4.1F
	1301	1613	4.3E
	1908	2208	4.1F
19	0132	0439	4.1E
Sa	0730	1030	4.0F
	1351	1703	4.1E
	1956	2255	3.9F
20	0219	0530	4.1E
Su	0823	1121	3.9F
	1451	1758	4.0E
	2051	2350	3.8F
21	0314	0625	4.0E
M	0923	1226	3.8F
	1600	1857	3.9E
	2154		
22		0052	3.7F
Tu	0417	0725	4.1E
	1030	1335	3.9F
	1713	2001	3.9E
	2302		
23		0201	3.7F
W	0523	0828	4.3E
	1138	1445	4.1F
	1821	2105	4.1E
24	0009	0308	3.9F
Th	0627	0931	4.5E
	1242	1553	4.3F
	1922	2206	4.3E
25	0112	0412	4.1F
F	0726	1028	4.7E
	1341	1654	4.6F
	2018	2301	4.5E
26	0208	0510	4.4F
Sa	0821	1123	5.0E
	1435	1746	4.8F
	2109	2354	4.7E
27	0300	0602	4.6F
Su	0912	1213	5.1E
	1526	1836	4.9F
	2157		
28		0042	4.9E
M	0349	0651	4.7F
	1002	1303	5.2E
	1614	1922	5.0F
	2243		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 070° True E-Ebb, Dir. 250° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0129	4.9E	16		0122	4.5E
Tu	0436	0737	4.7F	W	0423	0721	4.3F
	1051	1349	5.1E		1040	1339	4.6E
	1701	2008	4.9F		1643	1942	4.4F
	2328				2307		
2		0215	4.9E	17		0200	4.5E
W	0522	0824	4.7F	Th	0458	0756	4.3F
	1140	1437	5.0E		1117	1418	4.6E
	1747	2051	4.7F		1720	2019	4.4F
					2341		
3	0013	0303	4.8E	18		0240	4.5E
Th	0608	0909	4.5F	F	0535	0835	4.3F
	1229	1523	4.8E		1156	1500	4.5E
	1834	2135	4.5F		1759	2056	4.3F
4	0058	0349	4.6E	19	0017	0323	4.4E
F	0656	0957	4.3F	Sa	0617	0918	4.3F
	1321	1613	4.5E		1240	1545	4.4E
	1922	2223	4.1F		1842	2139	4.1F
5	0146	0437	4.3E	20	0057	0410	4.3E
Sa	0746	1049	4.0F	Su	0703	1005	4.2F
	1417	1705	4.1E		1332	1636	4.2E
	2013	2311	3.8F		1931	2227	3.9F
6	0238	0530	4.1E	21	0146	0500	4.2E
Su	0841	1145	3.8F	M	0757	1100	4.1F
	1518	1801	3.8E		1434	1735	4.0E
	2109				2028	2324	3.8F
7		0009	3.5F	22	0244	0559	4.1E
M	0334	0625	3.9E	Tu	0900	1204	4.0F
	0942	1253	3.6F		1545	1835	3.9E
	1623	1900	3.6E		2134		
	2212						
8		0114	3.3F	23		0029	3.6F
Tu	0435	0725	3.8E	W	0352	0702	4.2E
	1046	1408	3.5F		1009	1317	4.0F
	1728	2001	3.5E		1658	1942	3.9E
	2317				2246		
9		0228	3.2F	24		0141	3.6F
W	0536	0826	3.8E	Th	0504	0807	4.3E
	1149	1521	3.6F		1119	1432	4.1F
	1827	2102	3.6E		1806	2049	4.1E
					2356		
10	0018	0333	3.4F	25		0255	3.8F
Th	0632	0924	3.9E	F	0611	0911	4.5E
	1245	1615	3.8F		1226	1543	4.3F
	1919	2156	3.7E		1906	2149	4.3E
11	0110	0424	3.6F	26	0058	0402	4.1F
F	0723	1015	4.1E	Sa	0712	1009	4.7E
	1334	1658	3.9F		1325	1640	4.6F
	2006	2244	3.9E		1959	2244	4.5E
12	0156	0507	3.7F	27	0153	0457	4.4F
Sa	0808	1100	4.3E	Su	0807	1104	4.9E
	1417	1733	4.1F		1418	1733	4.7F
	2047	2326	4.1E		2048	2336	4.8E
13	0236	0542	3.9F	28	0243	0549	4.6F
Su	0849	1142	4.4E	M	0858	1155	5.0E
	1456	1808	4.2F		1508	1818	4.8F
	2124				2134		
14		0005	4.3E	29		0021	4.9E
M	0313	0614	4.1F	Tu	0330	0634	4.7F
	0927	1222	4.6E		0947	1241	5.1E
	1533	1837	4.3F		1554	1901	4.8F
	2200				2217		
15		0045	4.4E	30		0107	4.9E
Tu	0348	0647	4.2F	W	0415	0719	4.7F
	1004	1301	4.6E		1034	1327	5.0E
	1608	1909	4.4F		1638	1941	4.7F
	2234				2259		
				31		0150	4.9E
				Th	0458	0802	4.7F
					1121	1413	4.8E
					1722	2022	4.5F
					2341		

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0234	4.8E	16		0214	4.6E
F	0541	0843	4.5F	Sa	0511	0814	4.5F
	1208	1459	4.6E		1139	1437	4.5E
	1805	2103	4.3F		1736	2030	4.3F
					2348		
2	0023	0317	4.6E	17		0257	4.6E
Sa	0625	0929	4.3F	Su	0556	0859	4.5F
	1257	1544	4.3E		1227	1526	4.4E
	1850	2145	4.0F		1822	2117	4.1F
3	0107	0404	4.3E	18	0032	0346	4.5E
Su	0712	1015	4.0F	M	0645	0949	4.3F
	1349	1633	4.0E		1322	1617	4.2E
	1938	2232	3.7F		1914	2208	4.0F
4	0156	0455	4.1E	19	0124	0439	4.4E
M	0804	1108	3.8F	Tu	0741	1046	4.2F
	1447	1727	3.7E		1425	1718	4.0E
	2032	2327	3.4F		2014	2307	3.8F
5	0252	0550	3.9E	20	0226	0540	4.3E
Tu	0901	1209	3.6F	W	0844	1153	4.1F
	1549	1826	3.5E		1534	1820	4.0E
	2133				2122		
6		0028	3.2F	21		0315	3.7F
W	0354	0647	3.7E	Th	0336	0644	4.3E
	1004	1319	3.5F		0953	1304	4.1F
	1652	1927	3.4E		1643	1926	4.0E
	2239				2234		
7		0141	3.1F	22		0130	3.7F
Th	0457	0745	3.7E	F	0448	0749	4.3E
	1107	1433	3.5F		1102	1419	4.2F
	1751	2025	3.5E		1747	2032	4.1E
	2341				2342		
8		0248	3.3F	23		0244	3.9F
F	0557	0846	3.8E	Sa	0555	0852	4.5E
	1205	1530	3.7F		1207	1524	4.4F
	1843	2121	3.7E		1845	2131	4.4E
9	0035	0345	3.5F	24	0042	0350	4.1F
Sa	0649	0940	4.0E	Su	0656	0950	4.6E
	1256	1615	3.9F		1305	1621	4.5F
	1929	2210	3.9E		1937	2224	4.6E
10	0122	0431	3.7F	25	0136	0443	4.4F
Su	0736	1025	4.2E	M	0751	1046	4.8E
	1341	1654	4.1F		1358	1713	4.6F
	2011	2253	4.2E		2024	2313	4.7E
11	0203	0506	4.0F	26	0224	0533	4.5F
M	0819	1110	4.4E	Tu	0842	1133	4.8E
	1422	1729	4.2F		1447	1756	4.6F
	2049	2333	4.4E		2108	2358	4.8E
12	0241	0543	4.2F	27	0309	0617	4.6F
Tu	0859	1152	4.5E	W	0930	1220	4.8E
	1500	1803	4.3F		1532	1837	4.6F
	2124				2150		
13		0014	4.5E	28		0041	4.8E
W	0317	0618	4.3F	Th	0352	0700	4.6F
	0937	1232	4.6E		1017	1305	4.7E
	1537	1836	4.4F		1614	1916	4.5F
	2159				2230		
14		0053	4.6E	29		0124	4.8E
Th	0354	0654	4.4F	F	0434	0741	4.6F
	1016	1313	4.7E		1102	1347	4.6E
	1615	1912	4.4F		1656	1953	4.3F
	2233				2310		
15		0131	4.6E	30		0205	4.7E
F	0431	0733	4.5F	Sa	0515	0819	4.4F
	1056	1354	4.6E		1147	1430	4.4E
	1654	1949	4.4F		1737	2032	4.1F
	2309				2350		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

CAPE COD CANAL (RR. Bridge), MASSACHUSETTS, 1983

F-Flood, Dir. 070° True E-Ebb, Dir. 250° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0248	4.5E
Su	0556	0903	4.2F
	1234	1516	4.1E
	1820	2115	3.8F
2	0033	0335	4.3E
M	0642	0946	4.0F
	1323	1605	3.9E
	1906	2157	3.6F
3	0115	0423	4.1E
Tu	0730	1033	3.8F
	1417	1656	3.7E
	1957	2249	3.3F
4	0213	0514	3.9E
W	0823	1130	3.6F
	1514	1750	3.5E
	2055	2348	3.2F
5	0312	0610	3.8E
Th	0921	1230	3.5F
	1613	1848	3.5E
	2157		
6		0051	3.1F
F	0419	0708	3.8E
	1021	1334	3.6F
	1709	1947	3.6E
	2258		
7		0157	3.3F
Sa	0515	0806	3.8E
	1119	1433	3.7F
	1800	2042	3.8E
	2352		
8		0255	3.5F
Su	0609	0858	4.0E
	1211	1524	3.8F
	1847	2131	4.0E
9	0041	0343	3.7F
M	0659	0950	4.2E
	1259	1609	4.0F
	1930	2216	4.2E
10	0125	0425	4.0F
Tu	0744	1035	4.3E
	1343	1648	4.2F
	2009	2300	4.4E
11	0206	0507	4.2F
W	0828	1120	4.5E
	1425	1727	4.3F
	2047	2341	4.6E
12	0246	0546	4.4F
Th	0910	1203	4.6E
	1506	1804	4.4F
	2124		
13		0022	4.7E
F	0326	0627	4.5F
	0953	1247	4.6E
	1547	1845	4.4F
	2202		
14		0105	4.8E
Sa	0408	0711	4.6F
	1038	1333	4.6E
	1631	1926	4.4F
	2242		
15		0151	4.8E
Su	0452	0756	4.6F
	1125	1419	4.5E
	1717	2013	4.3F
	2326		
16		0237	4.8E
M	0539	0843	4.6F
	1217	1510	4.4E
	1807	2100	4.2F
17	0015	0328	4.7E
Tu	0632	0938	4.5F
	1314	1604	4.3E
	1902	2154	4.0F
18	0110	0423	4.6E
W	0729	1036	4.4F
	1415	1702	4.2E
	2003	2255	3.9F
19	0213	0522	4.5E
Th	0831	1141	4.3F
	1520	1804	4.1E
	2110		
20		0004	3.8F
F	0322	0625	4.4E
	0937	1250	4.2F
	1624	1907	4.1E
	2218		
21		0116	3.8F
Sa	0431	0728	4.4E
	1043	1400	4.3F
	1724	2009	4.2E
	2322		
22		0228	4.0F
Su	0537	0831	4.4E
	1146	1504	4.3F
	1820	2108	4.4E
23	0021	0331	4.1F
M	0638	0930	4.5E
	1244	1559	4.4F
	1911	2159	4.5E
24	0115	0426	4.3F
Tu	0734	1022	4.5E
	1336	1648	4.4F
	1958	2248	4.6E
25	0203	0516	4.4F
W	0826	1112	4.6E
	1424	1733	4.4F
	2042	2334	4.7E
26	0249	0601	4.5F
Th	0914	1159	4.6E
	1509	1814	4.3F
	2124		
27		0017	4.7E
F	0331	0642	4.5F
	1000	1243	4.4E
	1551	1851	4.2F
	2204		
28		0100	4.7E
Sa	0412	0719	4.4F
	1044	1326	4.3E
	1632	1927	4.1F
	2243		
29		0141	4.6E
Su	0453	0800	4.3F
	1128	1409	4.2E
	1712	2008	3.9F
	2322		
30		0222	4.5E
M	0533	0837	4.2F
	1212	1453	4.0E
	1753	2046	3.7F
31	0003	0307	4.3E
Tu	0616	0919	4.0F
	1258	1538	3.9E
	1837	2129	3.6F

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0048	0354	4.2E
W	0700	1002	3.9F
	1346	1627	3.7E
	1925	2216	3.4F
2	0136	0443	4.0E
Th	0748	1052	3.8F
	1437	1717	3.7E
	2017	2309	3.3F
3	0231	0534	3.9E
F	0840	1147	3.7F
	1529	1810	3.6E
	2113		
4		0006	3.3F
Sa	0329	0629	3.8E
	0935	1240	3.7F
	1622	1905	3.7E
	2210		
5		0104	3.3F
Su	0428	0725	3.9E
	1030	1335	3.7F
	1713	1957	3.8E
	2305		
6		0201	3.5F
M	0525	0818	4.0E
	1123	1429	3.8F
	1800	2049	4.0E
	2356		
7		0255	3.7F
Tu	0618	0911	4.1E
	1214	1518	3.9F
	1845	2137	4.2E
8	0044	0346	3.9F
W	0709	0958	4.2E
	1303	1606	4.1F
	1928	2225	4.4E
9	0130	0432	4.2F
Th	0757	1048	4.4E
	1360	1648	4.2F
	2010	2309	4.6E
10	0216	0520	4.4F
F	0845	1135	4.5E
	1437	1736	4.3F
	2053	2355	4.8E
11	0301	0607	4.6F
Sa	0933	1223	4.6E
	1523	1820	4.4F
	2136		
12		0041	4.9E
Su	0348	0653	4.7F
	1022	1311	4.6E
	1611	1908	4.4F
	2221		
13		0130	4.9E
M	0436	0741	4.7F
	1113	1402	4.6E
	1701	1957	4.4F
	2309		
14		0218	4.9E
Tu	0526	0832	4.7F
	1206	1453	4.5E
	1753	2048	4.3F
15	0001	0312	4.9E
W	0619	0926	4.7F
	1301	1548	4.5E
	1849	2144	4.2F
16	0058	0407	4.8E
Th	0715	1023	4.6F
	1359	1645	4.4E
	1948	2242	4.1F
17	0200	0505	4.6E
F	0815	1124	4.4F
	1458	1743	4.3E
	2051	2348	4.0F
18	0305	0604	4.5E
Sa	0917	1228	4.3F
	1558	1843	4.3E
	2155		
19		0056	3.9F
Su	0412	0707	4.4E
	1020	1334	4.2F
	1656	1943	4.3E
	2258		
20		0207	4.0F
M	0517	0806	4.3E
	1121	1439	4.2F
	1752	2039	4.3E
	2357		
21		0311	4.1F
Tu	0619	0905	4.3E
	1220	1534	4.2F
	1844	2133	4.4E
22	0052	0406	4.2F
W	0716	1001	4.3E
	1313	1627	4.1F
	1932	2224	4.5E
23	0142	0501	4.3F
Th	0809	1050	4.3E
	1402	1713	4.1F
	2017	2310	4.5E
24	0229	0544	4.3F
F	0857	1139	4.2E
	1448	1754	4.0F
	2100	2354	4.5E
25	0312	0625	4.3F
Sa	0943	1221	4.2E
	1530	1833	4.0F
	2141		
26		0037	4.5E
Su	0353	0705	4.3F
	1026	1305	4.1E
	1610	1909	3.9F
	2220		
27		0118	4.5E
M	0432	0742	4.2F
	1108	1346	4.1E
	1649	1944	3.8F
	2259		
28		0159	4.4E
Tu	0511	0817	4.2F
	1149	1428	4.0E
	1728	2021	3.8F
	2339		
29		0240	4.4E
W	0551	0853	4.1F
	1230	1512	3.9E
	1809	2100	3.7F
30	0020	0325	4.3E
Th	0631	0936	4.0F
	1312	1555	3.9E
	1852	2145	3.6F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 070° True E-Ebb, Dir. 250° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0103	0410	4.1E
F	0715	1017	3.9F
	1357	1642	3.8E
	1939	2229	3.6F
2	0151	0459	4.0E
Sa	0801	1104	3.8F
	1443	1731	3.8E
	2028	2318	3.5F
3	0244	0550	4.0E
Su	0850	1153	3.8F
	1532	1822	3.8E
	2121		
4		0015	3.5F
M	0340	0642	3.9E
	0943	1245	3.7F
	1622	1913	3.9E
	2216		
5		0110	3.6F
Tu	0440	0737	3.9E
	1037	1340	3.8F
	1712	2007	4.0E
	2311		
6		0209	3.7F
W	0539	0833	4.0E
	1133	1433	3.8F
	1802	2100	4.2E
7	0006	0307	3.9F
Th	0636	0927	4.1E
	1227	1528	4.0F
	1851	2151	4.4E
8	0058	0403	4.2F
F	0731	1019	4.3E
	1320	1619	4.1F
	1939	2241	4.6E
9	0150	0455	4.4F
Sa	0824	1110	4.4E
	1412	1712	4.3F
	2027	2332	4.8E
10	0240	0546	4.6F
Su	0916	1202	4.6E
	1503	1802	4.4F
	2115		
11		0023	5.0E
M	0330	0637	4.8F
	1006	1253	4.6E
	1554	1851	4.5F
	2204		
12		0112	5.1E
Tu	0421	0727	4.9F
	1057	1344	4.7E
	1645	1942	4.5F
	2255		
13		0203	5.1E
W	0512	0818	4.9F
	1149	1435	4.7E
	1737	2035	4.5F
	2348		
14		0254	5.0E
Th	0604	0911	4.8F
	1241	1528	4.6E
	1831	2129	4.4F
15	0043	0348	4.9E
F	0658	1004	4.7F
	1335	1623	4.5E
	1927	2226	4.3F
16	0142	0442	4.7E
Sa	0754	1102	4.5F
	1430	1717	4.4E
	2026	2325	4.1F
17	0244	0540	4.5E
Su	0852	1159	4.3F
	1527	1813	4.3E
	2127		
18		0030	4.0F
M	0349	0640	4.3E
	0953	1303	4.1F
	1625	1912	4.2E
	2229		
19		0139	3.9F
Tu	0454	0740	4.1E
	1054	1408	3.9F
	1721	2010	4.2E
	2330		
20		0248	4.0F
W	0558	0839	4.0E
	1155	1510	3.9F
	1816	2108	4.2E
21	0028	0349	4.0F
Th	0657	0937	4.0E
	1251	1605	3.8F
	1907	2200	4.3E
22	0121	0443	4.1F
F	0751	1031	4.0E
	1342	1654	3.8F
	1954	2249	4.3E
23	0209	0532	4.1F
Sa	0839	1117	4.0E
	1428	1739	3.9F
	2039	2333	4.4E
24	0252	0609	4.2F
Su	0924	1200	4.1E
	1510	1814	3.9F
	2120		
25		0015	4.5E
M	0333	0648	4.2F
	1005	1241	4.1E
	1549	1847	3.9F
	2159		
26		0056	4.5E
Tu	0411	0719	4.2F
	1044	1322	4.1E
	1626	1923	3.9F
	2237		
27		0136	4.5E
W	0448	0752	4.2F
	1122	1402	4.1E
	1703	1959	3.9F
	2315		
28		0215	4.4E
Th	0525	0827	4.2F
	1159	1443	4.1E
	1740	2034	3.9F
	2353		
29		0257	4.4E
F	0602	0903	4.1F
	1236	1522	4.1E
	1819	2115	3.8F
30	0032	0340	4.3E
Sa	0641	0942	4.0F
	1315	1607	4.0E
	1901	2154	3.8F
31	0115	0425	4.2E
Su	0723	1021	3.9F
	1356	1652	3.9E
	1946	2239	3.7F

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0203	0514	4.0E
M	0809	1111	3.8F
	1441	1740	3.9E
	2036	2332	3.7F
2	0258	0607	3.9E
Tu	0901	1200	3.7F
	1532	1835	3.9E
	2132		
3		0029	3.7F
W	0401	0700	3.9E
	0957	1257	3.7F
	1626	1930	4.0E
	2231		
4		0131	3.8F
Th	0506	0800	3.9E
	1057	1358	3.7F
	1723	2027	4.1E
	2332		
5		0236	3.9F
F	0610	0858	4.0E
	1158	1458	3.9F
	1820	2123	4.4E
6	0032	0337	4.2F
Sa	0710	0956	4.2E
	1258	1557	4.0F
	1914	2219	4.6E
7	0129	0438	4.4F
Su	0806	1051	4.4E
	1354	1654	4.3F
	2007	2313	4.9E
8	0222	0532	4.7F
M	0858	1144	4.6E
	1447	1745	4.4F
	2059		
9		0004	5.0E
Tu	0314	0621	4.9F
	0949	1234	4.8E
	1538	1837	4.6F
	2150		
10		0055	5.2E
W	0405	0713	5.0F
	1038	1325	4.8E
	1628	1928	4.7F
	2240		
11		0144	5.2E
Th	0455	0802	5.0F
	1126	1414	4.9E
	1718	2017	4.7F
	2332		
12		0234	5.1E
F	0545	0850	4.9F
	1215	1503	4.8E
	1808	2108	4.6F
13	0025	0325	5.0E
Sa	0635	0941	4.7F
	1305	1554	4.7E
	1901	2201	4.4F
14	0121	0418	4.7E
Su	0728	1033	4.4F
	1358	1646	4.5E
	1956	2258	4.2F
15	0220	0514	4.4E
M	0824	1128	4.1F
	1452	1743	4.3E
	2054	2359	4.0F
16	0324	0610	4.1E
Tu	0923	1229	3.9F
	1550	1840	4.1E
	2157		
17		0108	3.8F
W	0430	0711	3.9E
	1025	1338	3.7F
	1649	1939	4.0E
	2300		
18		0222	3.8F
Th	0535	0812	3.8E
	1129	1445	3.6F
	1747	2038	4.0E
19	0001	0327	3.8F
F	0635	0913	3.8E
	1228	1546	3.6F
	1842	2134	4.1E
20	0057	0424	3.9F
Sa	0729	1007	3.8E
	1321	1636	3.7F
	1932	2225	4.2E
21	0146	0513	4.1F
Su	0817	1056	3.9E
	1407	1717	3.8F
	2017	2311	4.3E
22	0230	0550	4.1F
M	0859	1139	4.1E
	1448	1754	3.9F
	2058	2353	4.4E
23	0309	0621	4.2F
Tu	0939	1217	4.2E
	1525	1827	4.0F
	2137		
24		0031	4.5E
W	0346	0654	4.2F
	1015	1256	4.2E
	1601	1900	4.0F
	2214		
25		0110	4.5E
Th	0421	0726	4.3F
	1050	1334	4.3E
	1635	1932	4.1F
	2250		
26		0149	4.5E
F	0456	0756	4.3F
	1124	1412	4.3E
	1710	2007	4.1F
	2326		
27		0228	4.5E
Sa	0531	0831	4.2F
	1158	1452	4.2E
	1746	2044	4.1F
28	0003	0309	4.4E
Su	0609	0906	4.1F
	1233	1533	4.2E
	1825	2123	4.0F
29	0044	0354	4.2E
M	0649	0947	4.0F
	1311	1618	4.1E
	1909	2208	3.9F
30	0131	0439	4.1E
Tu	0734	1030	3.9F
	1355	1705	4.0E
	1958	2258	3.8F
31	0227	0533	3.9E
W	0826	1123	3.7F
	1447	1800	4.0E
	2055	2357	3.8F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

CAPE COD CANAL (RR. Bridge), MASSACHUSETTS, 1983

F-Flood, Dir. 070° True E-Ebb, Dir. 250° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0332	0632	3.8E	16		0151	3.6F
Th	0925	1222	3.6F	F	0509	0744	3.6E
	1547	1857	4.0E		1100	1413	3.3F
	2159				1716	2007	3.9E
					2330		
2		0106	3.8F	17		0302	3.7F
F	0443	0733	3.8E	Sa	0609	0845	3.6E
	1031	1328	3.6F		1202	1518	3.4F
	1652	2001	4.1E		1814	2105	4.0E
	2306						
3		0212	3.9F	18	0027	0358	3.8F
Sa	0551	0836	4.0E	Su	0702	0940	3.8E
	1138	1435	3.8F		1255	1611	3.6F
	1756	2100	4.4E		1905	2158	4.1E
4	0011	0321	4.2F	19	0117	0441	4.0F
Su	0652	0937	4.2E	M	0748	1027	3.9E
	1241	1540	4.0F		1340	1654	3.8F
	1856	2158	4.6E		1952	2243	4.3E
5	0111	0422	4.5F	20	0201	0520	4.1F
M	0748	1034	4.4E	Tu	0829	1110	4.1E
	1338	1640	4.3F		1421	1729	3.9F
	1952	2254	4.9E		2033	2326	4.4E
6	0206	0516	4.7F	21	0240	0553	4.2F
Tu	0839	1126	4.7E	W	0907	1148	4.3E
	1431	1733	4.5F		1457	1800	4.1F
	2044	2345	5.1E		2112		
7	0257	0605	4.9F	22		0005	4.5E
W	0928	1215	4.9E	Th	0316	0623	4.3F
	1520	1821	4.7F		0942	1227	4.4E
	2135				1532	1832	4.2F
					2149		
8		0034	5.2E	23		0043	4.6E
Th	0346	0653	5.0F	F	0351	0653	4.3F
	1014	1303	5.0E		1016	1304	4.4E
	1608	1910	4.8F		1606	1905	4.3F
	2225				2225		
9		0123	5.2E	24		0122	4.6E
F	0434	0739	4.9F	Sa	0426	0725	4.3F
	1100	1349	5.0E		1048	1342	4.4E
	1656	1958	4.8F		1640	1938	4.3F
	2314				2300		
10		0212	5.1E	25		0200	4.5E
Sa	0522	0824	4.8F	Su	0501	0758	4.3F
	1146	1437	4.9E		1121	1421	4.4E
	1743	2046	4.7F		1716	2016	4.3F
					2338		
11	0005	0300	4.9E	26		0240	4.4E
Su	0610	0909	4.6F	M	0539	0835	4.2F
	1233	1526	4.7E		1155	1500	4.3E
	1832	2135	4.5F		1755	2055	4.2F
12	0059	0351	4.6E	27	0020	0326	4.3E
M	0659	1000	4.3F	Tu	0619	0916	4.0F
	1322	1614	4.5E		1233	1545	4.2E
	1924	2228	4.2F		1839	2140	4.1F
13	0156	0442	4.3E	28	0109	0413	4.1E
Tu	0752	1052	3.9F	W	0706	1001	3.9F
	1415	1708	4.2E		1318	1636	4.1E
	2020	2327	3.9F		1930	2233	4.0F
14	0258	0541	3.9E	29	0207	0508	3.9E
W	0851	1150	3.6F	Th	0800	1055	3.7F
	1512	1804	4.0E		1413	1730	4.1E
	2121				2029	2334	3.9F
15		0036	3.7F	30	0314	0609	3.8E
Th	0403	0642	3.7E	F	0903	1158	3.6F
	0954	1259	3.4F		1519	1833	4.1E
	1614	1905	3.9E		2136		
	2226						

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0042	3.9F	16		0220	3.6F
Sa	0426	0712	3.8E	Su	0535	0810	3.6E
	1013	1309	3.6F		1127	1439	3.3F
	1630	1938	4.2E		1740	2030	3.9E
	2246				2349		
2		0157	4.0F	17		0321	3.7F
Su	0534	0817	4.0E	M	0627	0905	3.7E
	1123	1421	3.7F		1221	1534	3.5F
	1738	2041	4.4E		1834	2123	4.0E
	2352						
3		0305	4.2F	18	0040	0404	3.9F
M	0635	0918	4.2E	Tu	0712	0953	4.0E
	1226	1527	4.0F		1307	1616	3.7F
	1841	2140	4.6E		1921	2212	4.2E
4	0053	0406	4.5F	19	0125	0441	4.1F
Tu	0729	1015	4.5E	W	0754	1038	4.2E
	1323	1624	4.3F		1348	1657	4.0F
	1937	2235	4.9E		2004	2253	4.4E
5	0147	0459	4.7F	20	0206	0516	4.2F
W	0818	1107	4.8E	Th	0831	1117	4.3E
	1414	1717	4.6F		1426	1729	4.1F
	2029	2326	5.0E		2044	2334	4.5E
6	0238	0546	4.8F	21	0243	0549	4.3F
Th	0905	1154	4.9E	F	0907	1154	4.5E
	1502	1805	4.8F		1502	1802	4.3F
	2119				2122		
7		0016	5.1E	22		0014	4.5E
F	0326	0631	4.9F	Sa	0320	0621	4.3F
	0949	1240	5.0E		0941	1234	4.6E
	1548	1853	4.8F		1537	1837	4.4F
	2208				2159		
8		0102	5.1E	23		0054	4.6E
Sa	0412	0714	4.8F	Su	0356	0654	4.3F
	1032	1325	5.0E		1014	1311	4.6E
	1633	1937	4.8F		1613	1912	4.4F
	2257				2238		
9		0149	4.9E	24		0134	4.5E
Su	0458	0757	4.6F	M	0433	0729	4.3F
	1116	1411	4.9E		1048	1352	4.6E
	1718	2021	4.7F		1650	1951	4.4F
	2346				2318		
10		0234	4.7E	25		0216	4.4E
M	0543	0843	4.4F	Tu	0513	0809	4.2F
	1200	1457	4.7E		1124	1435	4.5E
	1804	2109	4.4F		1732	2034	4.4F
11	0037	0325	4.4E	26	0003	0301	4.3E
Tu	0630	0926	4.1F	W	0556	0852	4.1F
	1246	1544	4.5E		1205	1519	4.4E
	1853	2157	4.2F		1818	2123	4.3F
12	0131	0414	4.1E	27	0055	0352	4.1E
W	0720	1015	3.7F	Th	0645	0939	3.9F
	1337	1634	4.2E		1253	1610	4.3E
	1946	2253	3.9F		1911	2217	4.2F
13	0230	0510	3.8E	28	0154	0449	4.0E
Th	0817	1111	3.4F	F	0742	1036	3.7F
	1434	1730	4.0E		1351	1711	4.2E
	2044	2357	3.7F		2011	2318	4.1F
14	0333	0608	3.6E	29	0301	0549	3.9E
F	0919	1215	3.2F	Sa	0848	1143	3.6F
	1536	1829	3.8E		1459	1812	4.2E
	2148				2118		
15		0108	3.6F	30		0029	4.0F
Sa	0436	0710	3.5E	Su	0410	0654	3.9E
	1025	1330	3.2F		0958	1253	3.6F
	1640	1931	3.8E		1612	1916	4.3E
	2251				2227		
				31		0140	4.1F
				M	0515	0757	4.1E
					1107	1407	3.8F
					1722	2020	4.4E
					2333		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 070° True E-Ebb, Dir. 250° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0249	4.3F	16		0311	3.8F
Tu	0611	0858	4.3E	W	0631	0914	3.9E
	1218	1514	4.1F		1227	1531	3.7F
	1829	2121	4.6E		1845	2131	4.1E
2	0034	0347	4.5F	17	0044	0356	3.9F
W	0706	0953	4.6E	Th	0714	0959	4.2E
	1305	1612	4.4F		1311	1616	3.9F
	1922	2216	4.8E		1930	2219	4.2E
3	0128	0441	4.6F	18	0127	0435	4.1F
Th	0755	1044	4.8E	F	0753	1044	4.3E
	1356	1703	4.6F		1351	1654	4.1F
	2015	2307	4.9E		2013	2303	4.4E
4	0218	0526	4.7F	19	0209	0510	4.2F
F	084.	1133	4.9E	Sa	0831	1123	4.5E
	1441	1751	4.7F		1430	1733	4.3F
	2105	2355	4.9E		2055	2346	4.5E
5	0306	0610	4.7F	20	0248	0547	4.3F
Sa	0924	1218	5.0E	Su	0907	1204	4.6E
	1528	1835	4.7F		1509	1810	4.4F
	2151				2136		
6		0041	4.8E	21		0027	4.5E
Su	0350	0652	4.6F	M	0328	0626	4.3F
	1006	1301	4.9E		0943	1245	4.7E
	1612	1918	4.7F		1548	1851	4.5F
	2240				2218		
7		0127	4.7E	22		0110	4.5E
M	0434	0733	4.4F	Tu	0409	0707	4.3F
	1048	1345	4.8E		1020	1328	4.7E
	1656	2001	4.6F		1630	1932	4.6F
	2328				2303		
8		0213	4.5E	23		0155	4.5E
Tu	0518	0814	4.2F	W	0452	0746	4.2F
	1130	1428	4.6E		1101	1413	4.7E
	1739	2045	4.4F		1714	2018	4.5F
					2351		
9	0016	0259	4.2E	24		0243	4.4E
W	0602	0859	3.9F	Th	0539	0835	4.2F
	1214	1514	4.4E		1146	1500	4.6E
	1825	2128	4.1F		1803	2109	4.5F
10	0106	0348	4.0E	25	0044	0336	4.3E
Th	0650	0942	3.7F	F	0631	0924	4.0F
	1301	1603	4.2E		1237	1555	4.6E
	1914	2220	3.9F		1857	2202	4.4F
11	0200	0439	3.7E	26	0142	0429	4.1E
F	0742	1033	3.4F	Sa	0728	1022	3.9F
	1355	1656	4.0E		1337	1649	4.5E
	2007	2315	3.7F		1956	2305	4.3F
12	0253	0532	3.6E	27	0245	0530	4.1E
Sa	0843	1131	3.2F	Su	0832	1127	3.8F
	1455	1753	3.8E		1444	1753	4.4E
	2105				2100		
13		0017	3.6F	28		0011	4.2F
Su	0355	0633	3.5E	M	0349	0633	4.1E
	0942	1237	3.1F		0940	1236	3.8F
	1558	1851	3.8E		1555	1855	4.4E
	2205				2207		
14		0123	3.6F	29		0119	4.2F
M	0452	0730	3.6E	Tu	0451	0736	4.2E
	1043	1346	3.2F		1047	1348	3.9F
	1659	1948	3.8E		1703	1959	4.4E
	2303				2312		
15		0222	3.7F	30		0226	4.3F
Tu	0544	0823	3.7E	W	0549	0835	4.4E
	1138	1442	3.4F		1149	1456	4.1F
	1754	2042	3.9E		1807	2058	4.5E
	2356						

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0012	0326	4.4F	16		0305	3.8F
Th	0642	0930	4.5E	F	0630	0920	4.1E
	1246	1555	4.3F		1229	1531	3.8F
	1906	2156	4.6E		1855	2143	4.1E
2	0108	0419	4.4F	17	0047	0350	3.9F
F	0731	1022	4.7E	Sa	0713	1006	4.3E
	1337	1648	4.5F		1316	1619	4.0F
	2000	2248	4.6E		1943	2231	4.2E
3	0159	0508	4.4F	18	0134	0435	4.1F
Sa	0817	1113	4.8E	Su	0755	1051	4.5E
	1425	1736	4.6F		1400	1703	4.3F
	2051	2336	4.6E		2030	2317	4.4E
4	0247	0553	4.4F	19	0219	0516	4.2F
Su	0901	1155	4.8E	M	0836	1137	4.7E
	1510	1821	4.6F		1444	1748	4.5F
	2139				2115		
5		0023	4.5E	20		0003	4.5E
M	0331	0634	4.3F	Tu	0304	0602	4.3F
	0943	1240	4.8E		0917	1221	4.8E
	1554	1904	4.5F		1528	1833	4.6F
	2225				2202		
6		0108	4.4E	21		0049	4.5E
Tu	0414	0712	4.2F	W	0349	0645	4.3F
	1024	1321	4.7E		0959	1307	4.9E
	1636	1945	4.4F		1613	1919	4.7F
	2311				2249		
7		0152	4.3E	22		0137	4.5E
W	0455	0753	4.0F	Th	0436	0729	4.4F
	1105	1405	4.6E		1044	1356	4.9E
	1718	2024	4.3F		1700	2007	4.7F
	2355				2338		
8		0235	4.1E	23		0226	4.5E
Th	0537	0831	3.9F	F	0525	0819	4.3F
	1147	1450	4.4E		1132	1444	4.9E
	1800	2104	4.1F		1750	2056	4.7F
9	0041	0319	4.0E	24	0030	0317	4.5E
F	0621	0912	3.7F	Sa	0617	0912	4.2F
	1231	1535	4.3E		1225	1535	4.8E
	1844	2151	4.0F		1843	2148	4.6F
10	0128	0407	3.8E	25	0125	0413	4.4E
Sa	0708	1001	3.5F	Su	0713	1007	4.1F
	1319	1623	4.1E		1323	1632	4.7E
	1931	2236	3.8F		1940	2247	4.5F
11	0218	0458	3.7E	26	0222	0508	4.3E
Su	0759	1050	3.4F	M	0813	1108	4.0F
	1412	1715	3.9E		1427	1730	4.5E
	2022	2327	3.7F		2040	2348	4.3F
12	0310	0550	3.6E	27	0322	0609	4.3E
M	0854	1147	3.3F	Tu	0916	1215	4.0F
	1510	1808	3.8E		1535	1832	4.4E
	2116				2143		
13		0023	3.6F	28		0054	4.2F
Tu	0403	0644	3.7E	W	0422	0709	4.3E
	0951	1245	3.3F		1022	1325	4.0F
	1610	1905	3.8E		1643	1934	4.3E
	2211				2247		
14		0118	3.6F	29		0200	4.1F
W	0455	0738	3.7E	Th	0520	0809	4.3E
	1047	1344	3.4F		1125	1433	4.0F
	1708	1959	3.8E		1749	2036	4.3E
	2306				2350		
15		0213	3.7F	30		0301	4.1F
Th	0544	0829	3.9E	F	0616	0908	4.4E
	1140	1439	3.6F		1224	1539	4.2F
	1803	2052	4.0E		1850	2134	4.3E
	2358						
				31	0048	0402	4.1F
				Sa	0708	0959	4.5E
					1319	1638	4.3F
					1946	2229	4.3E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

POLLOCK RIP CHANNEL, MASSACHUSETTS, 1983

F-Flood, Dir. 035° True E-Ebb, Dir. 225° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0053	1.9E
Sa	0402	0712	1.9F
	1021	1307	2.0E
	1618	1944	2.4F
	2308		
2		0145	1.9E
Su	0456	0805	1.9F
	1115	1400	2.0E
	1712	2039	2.3F
3	0002	0242	1.9E
M	0552	0905	1.9F
	1212	1457	1.9E
	1808	2137	2.3F
4	0057	0337	1.8E
Tu	0650	1007	1.9F
	1311	1557	1.8E
	1907	2241	2.2F
5	0155	0438	1.7E
W	0750	1113	1.8F
	1413	1659	1.7E
	2008	2344	2.1F
6	0253	0542	1.7E
Th	0851	1222	1.8F
	1518	1805	1.6E
	2112		
7		0051	2.0F
F	0352	0646	1.6E
	0953	1327	1.9F
	1612	1914	1.6E
	2216		
8		0153	2.0F
Sa	0450	0747	1.6E
	1054	1428	2.0F
	1715	2021	1.5E
	2319		
9		0254	1.9F
Su	0546	0851	1.7E
	1151	1528	2.1F
	1814	2122	1.5E
10	0017	0349	1.9F
M	0639	0942	1.7E
	1243	1617	2.1F
	1918	2215	1.6E
11	0111	0438	1.9F
Tu	0727	1029	1.7E
	1330	1706	2.2F
	2007	2305	1.6E
12	0159	0525	1.9F
W	0812	1112	1.7E
	1414	1751	2.2F
	2051	2344	1.6E
13	0242	0607	1.9F
Th	0854	1150	1.7E
	1453	1830	2.2F
	2133		
14		0023	1.6E
F	0322	0644	1.8F
	0934	1225	1.8E
	1530	1905	2.2F
	2211		
15		0056	1.6E
Sa	0359	0719	1.8F
	1012	1259	1.8E
	1606	1938	2.2F
	2249		
16		0129	1.7E
Su	0435	0752	1.8F
	1050	1333	1.8E
	1641	2010	2.2F
	2326		
17		0203	1.7E
M	0512	0824	1.8F
	1129	1410	1.8E
	1718	2043	2.1F
18	0005	0242	1.8E
Tu	0550	0859	1.8F
	1211	1450	1.8E
	1757	2118	2.1F
19	0045	0321	1.8E
W	0630	0936	1.8F
	1254	1533	1.8E
	1839	2158	2.1F
20	0128	0404	1.8E
Th	0712	1019	1.8F
	1342	1620	1.7E
	1925	2241	2.0F
21	0213	0449	1.7E
F	0759	1106	1.8F
	1433	1709	1.7E
	2014	2330	1.9F
22	0302	0539	1.7E
Sa	0848	1158	1.7F
	1528	1804	1.6E
	2108		
23		0023	1.8F
Su	0353	0630	1.6E
	0942	1257	1.7F
	1626	1857	1.5E
	2205		
24		0122	1.7F
M	0447	0727	1.6E
	1038	1358	1.8F
	1726	1959	1.5E
	2306		
25		0222	1.7F
Tu	0542	0824	1.7E
	1136	1503	1.9F
	1826	2100	1.5E
26	0008	0325	1.7F
W	0638	0922	1.7E
	1233	1603	2.0F
	1923	2201	1.6E
27	0108	0426	1.7F
Th	0732	1017	1.8E
	1329	1659	2.1F
	2018	2256	1.7E
28	0205	0522	1.8F
F	0825	1112	1.9E
	1423	1754	2.3F
	2111	2352	1.8E
29	0259	0616	1.9F
Sa	0918	1205	2.0E
	1516	1845	2.4F
	2202		
30		0045	1.9E
Su	0352	0708	2.0F
	1010	1259	2.1E
	1608	1938	2.4F
	2253		
31		0135	1.9E
M	0443	0800	2.1F
	1102	1350	2.1E
	1700	2029	2.4F
	2343		

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0225	1.9E
Tu	0534	0852	2.1F
	1155	1443	2.0E
	1752	2121	2.3F
2	0034	0317	1.9E
W	0627	0946	2.0F
	1251	1537	1.9E
	1846	2216	2.2F
3	0127	0412	1.8E
Th	0721	1046	2.0F
	1348	1633	1.8E
	1943	2315	2.0F
4	0221	0507	1.7E
F	0817	1149	1.9F
	1449	1736	1.6E
	2042		
5		0017	1.9F
Sa	0318	0607	1.6E
	0916	1252	1.9F
	1551	1839	1.5E
	2144		
6		0120	1.8F
Su	0415	0711	1.5E
	1017	1354	1.9F
	1654	1946	1.4E
	2247		
7		0221	1.8F
M	0513	0812	1.5E
	1116	1457	2.0F
	1755	2052	1.4E
	2348		
8		0321	1.8F
Tu	0608	0909	1.6E
	1211	1550	2.0F
	1850	2149	1.5E
9	0044	0414	1.8F
W	0700	1002	1.6E
	1302	1639	2.1F
	1941	2238	1.5E
10	0133	0459	1.8F
Th	0747	1050	1.7E
	1347	1722	2.2F
	2025	2319	1.6E
11	0217	0542	1.9F
F	0830	1127	1.7E
	1428	1804	2.2F
	2106	2356	1.7E
12	0257	0621	1.9F
Sa	0909	1202	1.8E
	1505	1839	2.2F
	2144		
13		0029	1.7E
Su	0333	0654	1.9F
	0947	1234	1.8E
	1541	1910	2.2F
	2220		
14		0101	1.8E
M	0407	0724	1.9F
	1024	1307	1.9E
	1615	1939	2.2F
	2255		
15		0134	1.8E
Tu	0441	0753	1.9F
	1102	1344	1.9E
	1650	2011	2.2F
	2331		
16		0209	1.9E
W	0516	0824	2.0F
	1140	1421	1.9E
	1727	2042	2.2F
17	0009	0247	1.9E
Th	0553	0901	2.0F
	1222	1502	1.9E
	1807	2119	2.1F
18	0049	0328	1.9E
F	0633	0938	2.0F
	1307	1547	1.8E
	1851	2202	2.0F
19	0133	0413	1.8E
Sa	0717	1026	1.9F
	1358	1636	1.7E
	1939	2251	1.9F
20	0222	0500	1.7E
Su	0807	1119	1.8F
	1454	1730	1.6E
	2034	2344	1.7F
21	0316	0555	1.6E
M	0903	1220	1.8F
	1557	1829	1.5E
	2136		
22		0048	1.6F
Tu	0416	0652	1.6E
	1006	1329	1.7F
	1702	1934	1.4E
	2244		
23		0157	1.5F
W	0518	0758	1.5E
	1111	1444	1.8F
	1807	2044	1.4E
	2352		
24		0313	1.6F
Th	0620	0904	1.6E
	1216	1552	2.0F
	1908	2149	1.5E
25	0056	0421	1.7F
F	0719	1008	1.7E
	1317	1653	2.1F
	2005	2249	1.7E
26	0155	0518	1.9F
Sa	0814	1104	1.9E
	1413	1748	2.3F
	2057	2342	1.8E
27	0248	0609	2.0F
Su	0907	1157	2.0E
	1506	1837	2.4F
	2146		
28		0032	1.9E
M	0338	0700	2.1F
	0957	1248	2.1E
	1556	1925	2.4F
	2234		

F-Flood, Dir. 035° True E-Ebb, Dir. 225° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0119	2.0E
Tu	0425	0748	2.2F
	1047	1336	2.1E
	1645	2011	2.4F
	2320		
2		0205	2.0E
W	0512	0833	2.2F
	1137	1424	2.0E
	1734	2059	2.3F
3	0007	0252	1.9E
Th	0600	0924	2.1F
	1229	1515	1.9E
	1823	2147	2.1F
4	0056	0341	1.8E
F	0649	1015	2.0F
	1322	1606	1.7E
	1915	2241	1.9F
5	0147	0432	1.7E
Sa	0741	1114	1.9F
	1419	1701	1.6E
	2011	2342	1.8F
6	0242	0527	1.6E
Su	0837	1216	1.9F
	1520	1804	1.4E
	2111		
7		0043	1.7F
M	0339	0628	1.5E
	0937	1321	1.8F
	1621	1910	1.3E
	2213		
8		0147	1.6F
Tu	0438	0733	1.4E
	1037	1420	1.9F
	1721	2015	1.4E
	2315		
9		0248	1.6F
W	0535	0832	1.5E
	1135	1518	2.0F
	1817	2112	1.4E
10	0012	0339	1.7F
Th	0629	0930	1.5E
	1228	1607	2.0F
	1908	2205	1.5E
11	0102	0430	1.8F
F	0717	1014	1.6E
	1315	1652	2.1F
	1953	2249	1.6E
12	0146	0511	1.9F
Sa	0802	1056	1.7E
	1357	1731	2.2F
	2033	2324	1.7E
13	0226	0551	2.0F
Su	0842	1131	1.8E
	1435	1808	2.2F
	2111	2357	1.8E
14	0301	0622	2.0F
M	0920	1205	1.9E
	1511	1837	2.2F
	2146		
15		0029	1.9E
Tu	0335	0652	2.0F
	0957	1238	2.0E
	1546	1905	2.2F
	2221		
16		0100	1.9E
W	0408	0719	2.1F
	1033	1315	2.0E
	1621	1936	2.2F
	2257		
17		0135	2.0E
Th	0442	0754	2.1F
	1112	1352	2.0E
	1658	2009	2.2F
	2334		
18		0214	2.0E
F	0518	0827	2.1F
	1153	1436	2.0E
	1738	2046	2.1F
19	0014	0255	1.9E
Sa	0558	0908	2.1F
	1239	1517	1.9E
	1823	2131	2.0F
20	0058	0340	1.9E
Su	0643	0957	2.0F
	1331	1608	1.7E
	1913	2219	1.8F
21	0149	0431	1.7E
M	0735	1052	1.9F
	1430	1705	1.6E
	2011	2316	1.6F
22	0248	0529	1.6E
Tu	0836	1156	1.8F
	1536	1808	1.4E
	2118		
23		0029	1.5F
W	0353	0632	1.5E
	0943	1315	1.8F
	1644	1916	1.4E
	2231		
24		0153	1.5F
Th	0501	0743	1.5E
	1055	1435	1.8F
	1751	2031	1.4E
	2342		
25		0310	1.6F
F	0607	0853	1.6E
	1203	1545	2.0F
	1852	2139	1.6E
26	0046	0414	1.8F
Sa	0707	0957	1.7E
	1305	1644	2.2F
	1948	2237	1.7E
27	0143	0510	2.0F
Su	0803	1056	1.9E
	1402	1735	2.3F
	2039	2330	1.9E
28	0233	0559	2.1F
M	0854	1147	2.0E
	1453	1824	2.4F
	2126		
29		0016	2.0E
Tu	0320	0646	2.2F
	0943	1236	2.0E
	1541	1908	2.3F
	2211		
30		0100	2.0E
W	0405	0729	2.3F
	1031	1320	2.0E
	1627	1951	2.3F
	2255		
31		0143	2.0E
Th	0448	0812	2.2F
	1118	1403	1.9E
	1713	2036	2.1F
	2339		

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0226	1.9E
F	0532	0858	2.2F
	1207	1449	1.8E
	1759	2121	2.0F
2	0025	0309	1.8E
Sa	0618	0946	2.1F
	1257	1538	1.7E
	1848	2210	1.8F
3	0114	0356	1.6E
Su	0706	1040	1.9F
	1351	1631	1.5E
	1940	2303	1.6F
4	0206	0447	1.5E
M	0759	1139	1.8F
	1447	1727	1.4E
	2038		
5		0009	1.6F
Tu	0303	0546	1.4E
	0856	1240	1.8F
	1546	1831	1.3E
	2138		
6		0112	1.5F
W	0401	0649	1.4E
	0955	1340	1.8F
	1644	1932	1.4E
	2238		
7		0209	1.6F
Th	0459	0750	1.4E
	1053	1437	1.9F
	1739	2034	1.4E
	2334		
8		0306	1.7F
F	0554	0847	1.5E
	1147	1528	2.0F
	1828	2123	1.6E
9	0025	0354	1.8F
Sa	0643	0936	1.6E
	1236	1613	2.1F
	1914	2208	1.7E
10	0109	0437	1.9F
Su	0729	1017	1.7E
	1320	1654	2.1F
	1955	2243	1.8E
11	0149	0512	2.0F
M	0810	1056	1.8E
	1401	1729	2.2F
	2034	2319	1.9E
12	0225	0547	2.1F
Tu	0849	1131	1.9E
	1438	1800	2.2F
	2110	2352	1.9E
13	0259	0616	2.1F
W	0927	1206	1.9E
	1515	1831	2.2F
	2146		
14		0025	2.0E
Th	0333	0647	2.2F
	1006	1245	2.0E
	1552	1904	2.1F
	2222		
15		0104	2.0E
F	0409	0721	2.2F
	1046	1326	2.0E
	1631	1939	2.1F
	2301		
16		0141	2.0E
Sa	0447	0800	2.2F
	1130	1409	2.0E
	1714	2020	2.0F
	2343		
17		0226	2.0E
Su	0530	0845	2.2F
	1218	1456	1.9E
	1802	2105	1.9F
18	0031	0314	1.9E
M	0618	0932	2.1F
	1313	1547	1.7E
	1856	2200	1.7F
19	0126	0409	1.7E
Tu	0714	1034	2.0F
	1414	1647	1.6E
	1958	2307	1.6F
20	0229	0508	1.6E
W	0818	1145	1.9F
	1520	1752	1.5E
	2108		
21		0023	1.5F
Th	0338	0617	1.5E
	0929	1307	1.8F
	1628	1905	1.4E
	2221		
22		0149	1.5F
F	0447	0730	1.5E
	1041	1425	1.9F
	1733	2021	1.5E
	2330		
23		0259	1.7F
Sa	0553	0843	1.6E
	1149	1532	2.1F
	1833	2127	1.6E
24	0031	0400	1.9F
Su	0654	0949	1.7E
	1251	1628	2.2F
	1928	2224	1.8E
25	0126	0453	2.1F
M	0749	1044	1.8E
	1346	1719	2.3F
	2017	2311	1.9E
26	0215	0544	2.2F
Tu	0840	1135	1.9E
	1437	1806	2.3F
	2103	2357	1.9E
27	0300	0629	2.3F
W	0928	1220	1.9E
	1524	1851	2.2F
	2147		
28		0038	1.9E
Th	0342	0711	2.3F
	1014	1304	1.9E
	1608	1931	2.1F
	2229		
29		0116	1.9E
F	0424	0753	2.2F
	1100	1345	1.8E
	1652	2013	2.0F
	2312		
30		0157	1.8E
Sa	0505	0837	2.1F
	1146	1428	1.7E
	1736	2055	1.8F
	2356		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

POLLOCK RIP CHANNEL, MASSACHUSETTS, 1983

F-Flood, Dir. 035° True E-Ebb, Dir. 225° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0239	1.7E
Su	0548	0921	2.0F
	1233	1511	1.6E
	1822	2143	1.7F
2	0043	0325	1.6E
M	0634	1009	2.0F
	1323	1602	1.5E
	1911	2231	1.6F
3	0133	0412	1.5E
Tu	0723	1100	1.9F
	1415	1654	1.4E
	2005	2330	1.5F
4	0227	0506	1.5E
W	0817	1158	1.8F
	1509	1749	1.4E
	2101		
5		0029	1.5F
Th	0323	0603	1.4E
	0913	1255	1.8F
	1603	1848	1.4E
	2158		
6		0127	1.6F
F	0420	0703	1.4E
	1009	1350	1.9F
	1656	1943	1.5E
	2252		
7		0222	1.7F
Sa	0514	0759	1.5E
	1103	1441	1.9F
	1745	2034	1.6E
	2341		
8		0309	1.8F
Su	0605	0850	1.6E
	1153	1528	2.0F
	1831	2118	1.7E
9	0027	0352	1.9F
M	0652	0936	1.7E
	1239	1610	2.0F
	1914	2159	1.8E
10	0108	0433	2.0F
Tu	0736	1017	1.7E
	1322	1646	2.1F
	1954	2237	1.9E
11	0146	0506	2.1F
W	0817	1058	1.8E
	1403	1722	2.1F
	2033	2315	1.9E
12	0224	0542	2.1F
Th	0859	1137	1.9E
	1444	1756	2.0F
	2111	2353	2.0E
13	0301	0617	2.2F
F	0940	1218	1.9E
	1525	1833	2.0F
	2151		
14		0034	2.0E
Sa	0340	0656	2.3F
	1024	1303	1.9E
	1608	1914	2.0F
	2233		
15		0117	2.0E
Su	0423	0740	2.3F
	1111	1348	1.9E
	1655	1957	1.9F
	2319		
16		0204	2.0E
M	0509	0827	2.2F
	1202	1438	1.8E
	1747	2050	1.8F
17	0011	0255	1.9E
Tu	0602	0924	2.1F
	1259	1533	1.7E
	1845	2150	1.7F
18	0110	0352	1.8E
W	0700	1025	2.0F
	1400	1636	1.6E
	1949	2301	1.6F
19	0214	0454	1.6E
Th	0806	1139	2.0F
	1505	1743	1.5E
	2057		
20		0017	1.6F
F	0323	0605	1.6E
	0915	1255	2.0F
	1610	1854	1.5E
	2206		
21		0137	1.7F
Sa	0431	0718	1.6E
	1025	1408	2.0F
	1712	2005	1.6E
	2312		
22		0244	1.8F
Su	0536	0827	1.6E
	1132	1510	2.1F
	1810	2106	1.7E
23	0011	0343	2.0F
M	0637	0934	1.7E
	1233	1607	2.1F
	1904	2202	1.8E
24	0105	0437	2.2F
Tu	0733	1027	1.8E
	1328	1700	2.1F
	1953	2253	1.9E
25	0154	0526	2.2F
W	0824	1118	1.8E
	1419	1747	2.1F
	2040	2336	1.9E
26	0239	0611	2.3F
Th	0912	1204	1.8E
	1506	1833	2.0F
	2123		
27		0017	1.8E
F	0321	0654	2.2F
	0958	1247	1.7E
	1549	1914	1.9F
	2205		
28		0056	1.8E
Sa	0401	0735	2.2F
	1042	1328	1.7E
	1631	1953	1.8F
	2247		
29		0134	1.7E
Su	0441	0816	2.1F
	1125	1407	1.6E
	1713	2034	1.7F
	2329		
30		0214	1.7E
M	0522	0855	2.1F
	1209	1448	1.6E
	1756	2114	1.6F
31	0013	0255	1.6E
Tu	0604	0940	2.0F
	1255	1531	1.5E
	1842	2200	1.6F

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0101	0340	1.6E
W	0650	1023	1.9F
	1342	1619	1.5E
	1931	2247	1.6F
2	0151	0431	1.5E
Th	0739	1113	1.9F
	1431	1710	1.5E
	2022	2342	1.6F
3	0244	0522	1.5E
F	0830	1205	1.9F
	1521	1800	1.5E
	2114		
4		0036	1.6F
Sa	0338	0617	1.5E
	0923	1257	1.9F
	1611	1852	1.6E
	2205		
5		0127	1.7F
Su	0431	0709	1.5E
	1016	1349	1.9F
	1700	1943	1.6E
	2254		
6		0220	1.8F
M	0523	0802	1.6E
	1107	1435	1.9F
	1747	2031	1.7E
	2341		
7		0305	1.8F
Tu	0613	0851	1.6E
	1156	1520	1.9F
	1832	2114	1.8E
8	0026	0349	1.9F
W	0700	0938	1.7E
	1244	1605	1.9F
	1915	2158	1.8E
9	0108	0430	2.0F
Th	0746	1023	1.7E
	1330	1645	1.9F
	1958	2241	1.9E
10	0150	0510	2.1F
F	0832	1109	1.8E
	1415	1725	1.9F
	2041	2324	2.0E
11	0233	0552	2.2F
Sa	0918	1154	1.8E
	1502	1812	1.9F
	2125		
12		0009	2.0E
Su	0317	0638	2.3F
	1006	1241	1.9E
	1550	1854	1.9F
	2211		
13		0056	2.0E
M	0404	0726	2.3F
	1056	1332	1.9E
	1641	1945	1.9F
	2302		
14		0147	2.0E
Tu	0455	0816	2.3F
	1149	1425	1.8E
	1735	2042	1.8F
	2356		
15		0239	1.9E
W	0550	0914	2.2F
	1245	1522	1.8E
	1834	2143	1.8F
16	0056	0338	1.8E
Th	0649	1019	2.1F
	1344	1622	1.7E
	1936	2251	1.7F
17	0159	0441	1.7E
F	0753	1126	2.1F
	1445	1727	1.7E
	2040		
18		0005	1.7F
Sa	0305	0548	1.6E
	0859	1237	2.0F
	1546	1834	1.7E
	2145		
19		0114	1.8F
Su	0411	0659	1.6E
	1006	1344	2.0F
	1647	1943	1.7E
	2248		
20		0220	1.9F
M	0516	0809	1.6E
	1111	1449	2.0F
	1744	2044	1.7E
	2347		
21		0321	2.1F
Tu	0617	0915	1.6E
	1212	1544	2.0F
	1839	2139	1.8E
22	0042	0416	2.2F
W	0714	1011	1.7E
	1309	1638	2.0F
	1929	2232	1.8E
23	0132	0505	2.2F
Th	0807	1106	1.7E
	1400	1727	2.0F
	2017	2315	1.8E
24	0218	0554	2.2F
F	0855	1149	1.6E
	1447	1812	1.9F
	2101	2357	1.8E
25	0301	0638	2.2F
Sa	0940	1232	1.6E
	1531	1853	1.8F
	2143		
26		0036	1.7E
Su	0340	0719	2.2F
	1022	1310	1.6E
	1611	1934	1.8F
	2223		
27		0112	1.7E
M	0419	0754	2.1F
	1103	1346	1.6E
	1650	2013	1.7F
	2304		
28		0149	1.7E
Tu	0457	0833	2.1F
	1143	1423	1.6E
	1730	2048	1.7F
	2346		
29		0230	1.7E
W	0536	0909	2.1F
	1224	1502	1.6E
	1811	2124	1.7F
30	0030	0311	1.7E
Th	0618	0947	2.0F
	1307	1543	1.6E
	1854	2206	1.7F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 035° True E-Ebb, Dir. 225° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0116	0356	1.7E	16	0140	0425	1.8E
F	0702	1029	2.0F	Sa	0735	1107	2.1F
	1352	1628	1.6E		1420	1704	1.7E
	1940	2251	1.7F		2016	2342	1.9F
2	0205	0441	1.6E	17	0243	0530	1.7E
Sa	0749	1114	2.0F	Su	0838	1212	2.0F
	1438	1717	1.7E		1519	1807	1.7E
	2028	2342	1.7F		2118		
3	0256	0533	1.6E	18		0048	1.9F
Su	0838	1200	1.9F	M	0348	0636	1.6E
	1526	1804	1.7E		0943	1321	2.0F
	2116				1618	1914	1.7E
					2220		
4		0031	1.7F	19		0155	2.0F
M	0348	0624	1.6E	Tu	0453	0746	1.5E
	0929	1251	1.8F		1047	1423	1.9F
	1614	1853	1.7E		1717	2015	1.7E
	2206				2320		
5		0122	1.7F	20		0256	2.0F
Tu	0442	0715	1.5E	W	0556	0851	1.5E
	1022	1343	1.8F		1150	1522	1.9F
	1703	1943	1.7E		1813	2115	1.7E
	2256						
6		0218	1.8F	21	0017	0354	2.1F
W	0535	0808	1.5E	Th	0654	0952	1.6E
	1115	1434	1.8F		1248	1617	1.9F
	1752	2032	1.7E		1905	2208	1.7E
	2345						
7		0307	1.9F	22	0109	0445	2.2F
Th	0627	0901	1.6E	F	0747	1045	1.6E
	1208	1522	1.8F		1341	1708	1.9F
	1840	2123	1.8E		1954	2255	1.7E
8	0033	0356	2.0F	23	0156	0534	2.2F
F	0719	0955	1.6E	Sa	0835	1131	1.6E
	1301	1616	1.8F		1428	1751	1.9F
	1928	2210	1.8E		2039	2338	1.7E
9	0122	0447	2.1F	24	0239	0617	2.2F
Sa	0810	1044	1.7E	Su	0919	1210	1.6E
	1352	1705	1.8F		1510	1833	1.8F
	2016	2301	1.9E		2120		
10	0211	0535	2.2F	25		0016	1.7E
Su	0900	1137	1.8E	M	0318	0656	2.2F
	1444	1754	1.9F		0959	1247	1.6E
	2105	2351	2.0E		1548	1910	1.8F
					2200		
11	0300	0623	2.3F	26	0049	0049	1.8E
M	0950	1228	1.8E	Tu	0355	0731	2.2F
	1535	1845	1.9F		1037	1320	1.7E
	2155				1624	1945	1.8F
					2239		
12		0042	2.0E	27		0124	1.8E
Tu	0351	0715	2.3F	W	0431	0803	2.2F
	1041	1319	1.9E		1114	1354	1.7E
	1628	1938	1.9F		1701	2016	1.8F
	2247				2318		
13		0135	2.0E	28		0201	1.8E
W	0444	0810	2.3F	Th	0508	0836	2.1F
	1133	1411	1.9E		1151	1429	1.7E
	1722	2033	1.9F		1737	2050	1.8F
	2342				2358		
14		0228	2.0E	29		0238	1.8E
Th	0538	0905	2.3F	F	0546	0909	2.1F
	1227	1508	1.9E		1231	1508	1.8E
	1817	2131	1.9F		1816	2125	1.8F
15	0040	0325	1.9E	30	0041	0318	1.8E
F	0615	1006	2.2F	Sa	0626	0944	2.1F
	1313	1603	1.8E		1312	1547	1.8E
	1916	2235	1.9F		1857	2206	1.8F
				31	0126	0403	1.7E
				Su	0710	1026	2.0F
					1355	1632	1.7E
					1941	2251	1.8F

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0215	0452	1.7E	16		0021	1.9F
M	0756	1111	1.9F	Tu	0323	0612	1.5E
	1442	1720	1.7E		0917	1251	1.8F
	2029	2340	1.8F		1548	1841	1.6E
					2149		
2	0307	0543	1.6E	17		0128	1.9F
Tu	0847	1202	1.8F	W	0428	0721	1.5E
	1531	1809	1.7E		1022	1356	1.8F
	2119				1648	1949	1.5E
					2251		
3		0034	1.8F	18		0230	2.0F
W	0403	0638	1.5E	Th	0531	0828	1.4E
	0942	1257	1.7F		1126	1457	1.8F
	1623	1902	1.6E		1746	2048	1.6E
	2213				2349		
4		0131	1.8F	19		0329	2.1F
Th	0501	0734	1.5E	F	0630	0928	1.5E
	1041	1352	1.6F		1225	1553	1.8F
	1717	1957	1.6E		1841	2145	1.6E
	2309						
5		0234	1.8F	20	0043	0422	2.1F
F	0559	0831	1.5E	Sa	0723	1021	1.6E
	1140	1454	1.6F		1317	1644	1.9F
	1811	2052	1.7E		1930	2230	1.7E
6	0005	0332	1.9F	21	0131	0507	2.2F
Sa	0656	0931	1.5E	Su	0809	1106	1.6E
	1239	1555	1.7F		1403	1727	1.9F
	1905	2148	1.8E		2015	2315	1.7E
7	0100	0430	2.1F	22	0214	0550	2.2F
Su	0751	1027	1.6E	M	0851	1145	1.7E
	1336	1651	1.8F		1444	1808	1.9F
	1958	2243	1.9E		2056	2351	1.8E
8	0154	0525	2.2F	23	0253	0628	2.2F
M	0843	1121	1.8E	Tu	0929	1220	1.7E
	1430	1744	1.9F		1520	1843	1.9F
	2050	2336	2.0E		2135		
9	0247	0615	2.3F	24		0025	1.8E
Tu	0934	1214	1.9E	W	0329	0701	2.2F
	1522	1836	2.0F		1005	1251	1.8E
	2141				1554	1915	1.9F
					2212		
10		0029	2.1E	25		0056	1.9E
W	0339	0706	2.4F	Th	0403	0730	2.2F
	1024	1305	1.9E		1041	1321	1.8E
	1613	1928	2.1F		1628	1944	2.0F
	2233				2249		
11		0120	2.1E	26		0131	1.9E
Th	0431	0757	2.4F	F	0438	0800	2.2F
	1114	1354	2.0E		1116	1354	1.9E
	1704	2020	2.1F		1702	2013	2.0F
	2326				2327		
12		0214	2.1E	27		0208	1.9E
F	0523	0848	2.3F	Sa	0514	0829	2.1F
	1205	1448	1.9E		1153	1429	1.9E
	1756	2114	2.1F		1737	2048	2.0F
13	0021	0305	2.0E	28	0007	0245	1.9E
Sa	0617	0943	2.2F	Su	0552	0906	2.1F
	1257	1540	1.9E		1232	1509	1.8E
	1850	2212	2.0F		1816	2127	1.9F
14	0119	0403	1.8E	29	0050	0330	1.8E
Su	0714	1044	2.1F	M	0633	0945	2.0F
	1352	1636	1.8E		1314	1552	1.8E
	1947	2314	2.0F		1858	2206	1.9F
15	0220	0504	1.7E	30	0139	0415	1.7E
M	0814	1145	1.9F	Tu	0720	1028	1.8F
	1449	1737	1.7E		1400	1639	1.7E
	2046				1945	2258	1.8F
				31	0232	0508	1.6E
				W	0812	1121	1.7F
					1452	1732	1.6E
					2038	2355	1.8F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 295° True E-Ebb, Dir. 100° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0025	0341	4.1E	16	0040	0400	2.8E
Sa	0643	0937	4.1F	Su	0701	0942	2.5F
	1241	1606	4.7E		1242	1616	3.2E
	1923	2211	4.0F		1930	2209	2.6F
2	0115	0435	4.1E	17	0117	0438	2.7E
Su	0741	1029	3.9F	M	0738	1022	2.5F
	1336	1702	4.5E		1320	1651	3.1E
	2017	2304	3.9F		2003	2248	2.6F
3	0214	0533	4.0E	18	0154	0514	2.7E
M	0841	1128	3.6F	Tu	0818	1104	2.4F
	1432	1759	4.2E		1400	1727	2.9E
	2113				2039	2331	2.6F
4		0002	3.6F	19	0234	0552	2.7E
Tu	0311	0631	3.9E	W	0903	1149	2.3F
	0944	1228	3.3F		1444	1802	2.7E
	1531	1855	3.9E		2119		
	2211						
5		0101	3.4F	20		0015	2.5F
W	0409	0731	3.7E	Th	0317	0637	2.7E
	1050	1333	3.0F		0952	1240	2.2F
	1633	1956	3.5E		1532	1849	2.6E
	2311				2203		
6		0205	3.2F	21		0102	2.5F
Th	0509	0832	3.6E	F	0405	0729	2.7E
	1155	1443	2.7F		1048	1331	2.2F
	1736	2057	3.3E		1627	1942	2.5E
					2254		
7	0011	0306	3.0F	22		0155	2.6F
F	0608	0933	3.5E	Sa	0458	0828	2.9E
	1259	1552	2.6F		1148	1429	2.2F
	1840	2155	3.1E		1726	2049	2.5E
					2350		
8	0110	0410	2.9F	23		0250	2.7F
Sa	0706	1028	3.5E	Su	0555	0929	3.1E
	1358	1653	2.6F		1250	1528	2.4F
	1941	2252	3.0E		1829	2152	2.7E
9	0205	0509	2.8F	24	0050	0349	2.9F
Su	0800	1124	3.6E	M	0654	1031	3.5E
	1453	1751	2.6F		1350	1627	2.7F
	2037	2345	2.9E		1932	2254	2.9E
10	0257	0558	2.8F	25	0150	0447	3.2F
M	0848	1211	3.6E	Tu	0754	1129	3.8E
	1542	1838	2.6F		1447	1728	3.0F
	2127				2032	2351	3.3E
11		0032	2.9E	26	0250	0544	3.5F
Tu	0345	0643	2.7F	W	0851	1223	4.2E
	0933	1258	3.6E		1542	1824	3.4F
	1627	1921	2.7F		2129		
	2211						
12		0118	2.9E	27		0046	3.7E
W	0428	0724	2.7F	Th	0347	0640	3.8F
	1013	1341	3.6E		0947	1315	4.6E
	1708	2000	2.7F		1634	1918	3.8F
	2251				2224		
13		0201	2.9E	28		0141	4.0E
Th	0509	0757	2.7F	F	0443	0736	4.1F
	1052	1422	3.5E		1041	1409	4.8E
	1746	2033	2.6F		1724	2012	4.0F
	2329				2317		
14		0242	2.8E	29		0233	4.3E
F	0548	0828	2.6F	Sa	0537	0829	4.2F
	1129	1459	3.5E		1134	1459	4.9E
	1822	2101	2.6F		1814	2103	4.2F
15	0005	0321	2.8E	30	0009	0325	4.4E
Sa	0625	0904	2.6F	Su	0631	0921	4.2F
	1205	1538	3.4E		1227	1551	4.8E
	1856	2134	2.6F		1905	2153	4.2F
				31	0100	0417	4.4E
				M	0726	1014	4.0F
					1319	1642	4.6E
					1955	2245	4.0F

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0152	0511	4.3E	16	0121	0443	3.1E
Tu	0822	1108	3.7F	W	0749	1037	2.7F
	1412	1735	4.2E		1334	1651	3.1E
	2047	2336	3.7F		2003	2257	2.8F
2	0244	0605	4.0E	17	0158	0516	3.1E
W	0921	1205	3.3F	Th	0831	1120	2.6F
	1507	1828	3.8E		1416	1723	2.9E
	2141				2041	2340	2.8F
3		0031	3.4F	18	0240	0557	3.1E
Th	0338	0702	3.8E	F	0918	1208	2.5F
	1022	1303	2.9F		1502	1808	2.8E
	1603	1926	3.4E		2125		
	2238						
4		0129	3.0F	19		0029	2.7F
F	0434	0759	3.5E	Sa	0328	0648	3.0E
	1125	1407	2.5F		1013	1301	2.4F
	1704	2025	3.0E		1556	1903	2.6E
	2337				2218		
5		0230	2.7F	20		0122	2.7F
Sa	0532	0859	3.3E	Su	0423	0751	3.0E
	1229	1517	2.3F		1115	1358	2.3F
	1806	2122	2.7E		1657	2015	2.6E
					2318		
6	0038	0335	2.5F	21		0221	2.7F
Su	0631	0958	3.2E	M	0525	0901	3.2E
	1330	1625	2.2F		1221	1501	2.4F
	1909	2223	2.6E		1804	2126	2.7E
7	0137	0437	2.4F	22	0026	0323	2.8F
M	0727	1053	3.2E	Tu	0630	1007	3.4E
	1426	1726	2.3F		1327	1605	2.6F
	2009	2317	2.6E		1910	2235	3.0E
8	0232	0535	2.4F	23	0133	0426	3.1F
Tu	0820	1148	3.2E	W	0734	1108	3.8E
	1517	1815	2.4F		1428	1709	3.0F
	2101				2014	2334	3.4E
9		0008	2.7E	24	0238	0529	3.4F
W	0322	0623	2.5F	Th	0836	1207	4.2E
	0907	1233	3.3E		1524	1809	3.4F
	1602	1900	2.5F		2113		
	2146						
10		0055	2.8E	25		0032	3.8E
Th	0407	0700	2.5F	F	0337	0629	3.8F
	0950	1317	3.4E		0934	1259	4.5E
	1643	1937	2.6F		1617	1905	3.8F
	2226				2207		
11		0137	2.9E	26		0126	4.2E
F	0448	0737	2.6F	Sa	0432	0725	4.0F
	1029	1358	3.5E		1028	1352	4.7E
	1720	2008	2.7F		1707	1955	4.1F
	2303				2259		
12		0217	3.0E	27		0217	4.5E
Sa	0526	0808	2.7F	Su	0526	0817	4.2F
	1107	1435	3.5E		1120	1441	4.8E
	1755	2035	2.8F		1755	2045	4.2F
	2338				2349		
13		0256	3.0E	28		0307	4.6E
Su	0602	0842	2.7F	M	0617	0906	4.2F
	1143	1513	3.4E		1211	1530	4.7E
	1827	2105	2.8F		1843	2133	4.2F
14	0011	0331	3.1E				
M	0637	0919	2.8F				
	1219	1549	3.3E				
	1858	2141	2.9F				
15	0046	0407	3.1E				
Tu	0712	0956	2.8F				
	1256	1622	3.2E				
	1929	2216	2.9F				

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 295° True E-Ebb, Dir. 100° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Su	0154	0528	3.3E
	0849	1124	2.5F
	1432	1753	2.6E
	2057	2337	2.3F
2 M	0239	0616	3.0E
	0939	1215	2.2F
	1521	1844	2.3E
	2151		
3 Tu		0025	2.0F
	0329	0707	2.7E
	1032	1306	2.0F
	1615	1939	2.2E
	2251		
4 W		0122	1.8F
	0423	0804	2.5E
	1128	1402	1.9F
	1711	2037	2.2E
	2352		
5 Th		0221	1.8F
	0521	0901	2.5E
	1223	1501	2.0F
	1806	2133	2.3E
6 F	0051	0322	1.8F
	0619	0956	2.6E
	1314	1555	2.1F
	1858	2224	2.6E
7 Sa	0143	0418	2.0F
	0715	1045	2.7E
	1400	1644	2.3F
	1945	2313	2.9E
8 Su	0231	0508	2.3F
	0805	1132	2.9E
	1443	1725	2.6F
	2029	2358	3.2E
9 M	0314	0551	2.6F
	0852	1217	3.1E
	1522	1807	2.9F
	2110		
10 Tu		0039	3.5E
	0355	0633	2.8F
	0937	1259	3.2E
	1600	1846	3.1F
	2151		
11 W		0121	3.8E
	0435	0715	3.1F
	1019	1337	3.3E
	1637	1928	3.3F
	2231		
12 Th		0200	4.0E
	0514	0759	3.3F
	1102	1418	3.4E
	1716	2011	3.5F
	2312		
13 F		0241	4.1E
	0556	0842	3.4F
	1146	1459	3.4E
	1758	2054	3.5F
	2356		
14 Sa		0322	4.2E
	0641	0928	3.4F
	1232	1544	3.4E
	1844	2141	3.5F
15 Su	0043	0410	4.1E
	0729	1017	3.4F
	1322	1636	3.4E
	1935	2232	3.4F
16 M	0135	0504	4.0E
	0821	1110	3.3F
	1416	1733	3.3E
	2033	2327	3.2F
17 Tu	0231	0602	3.8E
	0919	1205	3.2F
	1514	1834	3.2E
	2138		
18 W		0029	3.1F
	0332	0706	3.7E
	1021	1306	3.1F
	1616	1939	3.3E
	2248		
19 Th		0132	2.9F
	0437	0810	3.6E
	1125	1411	3.1F
	1720	2044	3.4E
	2358		
20 F		0241	2.9F
	0545	0913	3.6E
	1228	1517	3.1F
	1823	2145	3.6E
21 Sa	0104	0352	3.0F
	0650	1013	3.7E
	1328	1621	3.3F
	1923	2244	3.9E
22 Su	0205	0457	3.2F
	0752	1110	3.7E
	1423	1719	3.4F
	2018	2339	4.1E
23 M	0302	0554	3.3F
	0849	1203	3.8E
	1515	1814	3.5F
	2109		
24 Tu		0031	4.3E
	0354	0648	3.4F
	0941	1252	3.7E
	1603	1901	3.5F
	2156		
25 W		0118	4.3E
	0442	0737	3.3F
	1029	1341	3.6E
	1649	1944	3.4F
	2240		
26 Th		0205	4.2E
	0528	0818	3.2F
	1114	1426	3.4E
	1733	2022	3.2F
	2322		
27 F		0249	4.0E
	0612	0858	3.0F
	1157	1509	3.2E
	1816	2100	3.0F
28 Sa	0003	0332	3.8E
	0655	0936	2.8F
	1239	1553	3.0E
	1858	2141	2.8F
29 Su	0042	0416	3.5E
	0737	1014	2.6F
	1321	1639	2.7E
	1941	2220	2.5F
30 M	0123	0459	3.2E
	0820	1055	2.4F
	1404	1723	2.5E
	2027	2305	2.3F
31 Tu	0206	0543	2.9E
	0904	1136	2.3F
	1449	1812	2.3E
	2117	2352	2.0F

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 W	0252	0633	2.7E
	0950	1226	2.2F
	1537	1904	2.3E
	2211		
2 Th		0043	1.9F
	0342	0722	2.6E
	1039	1317	2.1F
	1627	1957	2.3E
	2308		
3 F		0138	1.8F
	0436	0815	2.5E
	1129	1408	2.1F
	1718	2048	2.4E
4 Sa	0004	0232	1.9F
	0532	0908	2.5E
	1219	1459	2.2F
	1809	2141	2.6E
5 Su	0058	0327	2.0F
	0628	0959	2.6E
	1306	1550	2.4F
	1857	2230	2.9E
6 M	0148	0421	2.2F
	0721	1050	2.7E
	1352	1639	2.6F
	1944	2316	3.2E
7 Tu	0235	0509	2.5F
	0813	1134	2.9E
	1435	1725	2.9F
	2030		
8 W	0002	0558	3.6E
	0320	0902	2.8F
	1222	1519	3.1E
	1811	2115	3.2F
9 Th	0048	0404	3.9E
	0646	0949	3.1F
	1308	1603	3.3E
	1857	2201	3.4F
10 F	0131	0449	4.1E
	0731	1037	3.3F
	1354	1649	3.5E
	1944	2248	3.6F
11 Sa	0217	0535	4.3E
	0820	1125	3.5F
	1440	1737	3.6E
	2034	2337	3.7F
12 Su	0308	0623	4.4E
	0909	1216	3.6F
	1530	1829	3.7E
	2125		3.7F
13 M	0028	0356	4.4E
	0713	1000	3.7F
	1308	1622	3.7E
	1924	2218	3.7F
14 Tu	0122	0451	4.3E
	0807	1055	3.6F
	1402	1720	3.7E
	2024	2315	3.5F
15 W	0219	0549	4.1E
	0903	1149	3.5F
	1500	1821	3.7E
	2128		
16 Th		0012	3.3F
	0319	0647	3.9E
	1002	1250	3.4F
	1600	1922	3.7E
	2235		
17 F		0118	3.1F
	0422	0748	3.7E
	1103	1353	3.3F
	1701	2025	3.7E
	2342		
18 Sa		0227	3.0F
	0526	0849	3.6E
	1204	1458	3.3F
	1802	2124	3.8E
19 Su	0047	0335	3.0F
	0631	0950	3.5E
	1303	1601	3.3F
	1901	2224	3.9E
20 M	0148	0441	3.0F
	0733	1047	3.4E
	1400	1700	3.3F
	1956	2319	4.0E
21 Tu	0245	0540	3.0F
	0830	1141	3.4E
	1453	1753	3.2F
	2048		
22 W		0010	4.0E
	0337	0631	3.0F
	0923	1230	3.3E
	1543	1842	3.2F
	2135		
23 Th		0059	4.0E
	0426	0720	3.0F
	1012	1321	3.2E
	1630	1925	3.0F
	2219		
24 F		0144	3.9E
	0511	0803	2.9F
	1056	1406	3.1E
	1714	2003	2.9F
	2300		
25 Sa		0228	3.8E
	0554	0842	2.8F
	1138	1449	2.9E
	1756	2039	2.7F
	2339		
26 Su		0309	3.6E
	0634	0917	2.7F
	1217	1531	2.8E
	1837	2116	2.6F
27 M	0017	0350	3.4E
	0712	0951	2.6F
	1256	1613	2.7E
	1917	2153	2.4F
28 Tu	0056	0430	3.2E
	0750	1029	2.5F
	1336	1655	2.6E
	1959	2236	2.3F
29 W	0136	0511	3.0E
	0829	1107	2.4F
	1416	1737	2.5E
	2042	2321	2.2F
30 Th	0219	0554	2.8E
	0908	1149	2.4F
	1459	1825	2.4E
	2130		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 295° True E-Ebb, Dir. 100° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0008	2.1F	16		0057	3.2F
F	0304	0639	2.6E	Sa	0401	0726	3.8E
	0950	1234	2.3F		1037	1327	3.4F
	1543	1913	2.4E		1636	1959	3.8E
	2221				2320		
2		0056	2.0F	17		0205	3.0F
Sa	0353	0727	2.5E	Su	0504	0824	3.5E
	1035	1323	2.3F		1138	1431	3.2F
	1631	2002	2.5E		1736	2100	3.7E
	2315						
3		0149	2.0F	18	0025	0315	2.8F
Su	0446	0816	2.4E	M	0607	0923	3.3E
	1122	1412	2.4F		1238	1536	3.0F
	1720	2055	2.7E		1835	2159	3.7E
4	0010	0242	2.1F	19	0127	0418	2.7F
M	0542	0913	2.5E	Tu	0710	1025	3.1E
	1212	1504	2.5F		1336	1638	2.9F
	1811	2146	2.9E		1932	2256	3.7E
5	0104	0337	2.2F	20	0226	0521	2.7F
Tu	0639	1004	2.6E	W	0810	1118	3.0E
	1302	1555	2.7F		1432	1735	2.9F
	1902	2237	3.2E		2025	2350	3.7E
6	0157	0433	2.5F	21	0319	0617	2.7F
W	0735	1057	2.8E	Th	0905	1211	3.0E
	1353	1648	2.9F		1524	1824	2.8F
	1954	2328	3.6E		2114		
7	0248	0526	2.8F	22		0037	3.7E
Th	0829	1151	3.0E	F	0407	0704	2.7F
	1445	1739	3.2F		0953	1300	2.9E
	2046				1611	1909	2.8F
					2158		
8		0019	3.9E	23		0124	3.6E
F	0338	0617	3.1F	Sa	0451	0747	2.7F
	0922	1239	3.3E		1036	1346	2.9E
	1536	1832	3.5F		1655	1947	2.7F
	2137				2239		
9		0109	4.2E	24		0207	3.6E
Sa	0427	0709	3.4F	Su	0532	0824	2.7F
	1015	1330	3.6E		1116	1427	2.9E
	1628	1924	3.8F		1736	2021	2.6F
	2225				2317		
10		0158	4.5E	25		0247	3.5E
Su	0518	0801	3.7F	M	0609	0851	2.7F
	1106	1424	3.8E		1153	1508	2.9E
	1721	2015	3.9F		1815	2056	2.6F
	2321				2354		
11		0249	4.6E	26		0325	3.4E
M	0605	0851	3.9F	Tu	0645	0925	2.6F
	1158	1515	4.0E		1228	1547	2.8E
	1816	2108	4.0F		1852	2132	2.5F
12	0014	0341	4.7E	27	0031	0403	3.2E
Tu	0656	0944	4.0F	W	0719	0958	2.6F
	1251	1607	4.1E		1304	1626	2.8E
	1912	2203	3.9F		1930	2208	2.5F
13	0108	0435	4.6E	28	0109	0440	3.1E
W	0748	1035	3.9F	Th	0753	1035	2.6F
	1345	1704	4.1E		1341	1704	2.7E
	2011	2259	3.8F		2009	2249	2.4F
14	0204	0530	4.4E	29	0148	0517	2.9E
Th	0843	1130	3.8F	F	0827	1114	2.5F
	1440	1802	4.0E		1419	1743	2.7E
	2112	2357	3.5F		2050	2334	2.3F
15	0301	0625	4.1E	30	0229	0553	2.7E
F	0939	1228	3.6F	Sa	0904	1157	2.5F
	1537	1900	3.9E		1500	1826	2.7E
	2215				2137		
				31		0021	2.2F
				Su	0315	0634	2.6E
					0945	1243	2.5F
					1545	1909	2.7E
					2228		

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0110	2.1F	16	0000	0248	2.5F
M	0405	0725	2.4E	Tu	0540	0857	2.9E
	1032	1332	2.5F		1212	1506	2.7F
	1634	2003	2.8E		1806	2133	3.4E
	2325						
2		0203	2.1F	17	0103	0359	2.4F
Tu	0501	0818	2.4E	W	0645	0958	2.8E
	1125	1425	2.5F		1313	1615	2.6F
	1729	2104	2.9E		1905	2231	3.3E
3	0024	0303	2.2F	18	0202	0503	2.4F
W	0602	0924	2.5E	Th	0747	1057	2.7E
	1222	1520	2.7F		1411	1712	2.5F
	1826	2203	3.2E		2001	2325	3.3E
4	0123	0402	2.4F	19	0256	0554	2.5F
Th	0703	1025	2.7E	F	0842	1151	2.8E
	1321	1617	2.9F		1504	1807	2.6F
	1925	2300	3.5E		2051		
5	0220	0457	2.7F	20		0016	3.4E
F	0803	1122	3.0E	Sa	0343	0643	2.6F
	1421	1716	3.2F		0930	1236	2.9E
	2022	2355	3.9E		1551	1849	2.6F
					2136		
6	0314	0554	3.1F	21		0059	3.4E
Sa	0900	1220	3.4E	Su	0426	0724	2.6F
	1518	1812	3.6F		1011	1321	3.0E
	2118				1634	1926	2.6F
					2216		
7		0049	4.3E	22		0141	3.5E
Su	0406	0650	3.5F	M	0505	0757	2.7F
	0955	1312	3.8E		1048	1402	3.0E
	1614	1907	3.9F		1713	1959	2.7F
	2213				2254		
8		0140	4.6E	23		0220	3.5E
M	0456	0741	3.9F	Tu	0540	0824	2.7F
	1048	1405	4.2E		1123	1441	3.1E
	1708	2000	4.1F		1750	2031	2.7F
	2306				2330		
9		0232	4.8E	24		0257	3.4E
Tu	0546	0834	4.1F	W	0613	0853	2.8F
	1139	1458	4.4E		1157	1518	3.1E
	1802	2054	4.2F		1825	2104	2.7F
	2359						
10		0324	4.8E	25	0006	0334	3.3E
W	0636	0925	4.2F	Th	0645	0925	2.8F
	1231	1550	4.5E		1231	1554	3.1E
	1857	2147	4.1F		1900	2141	2.7F
11	0052	0413	4.7E	26	0042	0408	3.1E
Th	0726	1016	4.1F	F	0715	1001	2.8F
	1323	1642	4.5E		1305	1629	3.0E
	1953	2239	3.9F		1936	2220	2.6F
12	0145	0557	4.4E	27	0119	0441	3.0E
F	0818	1107	3.9F	Sa	0748	1042	2.7F
	1415	1736	4.3E		1341	1702	3.0E
	2051	2336	3.6F		2015	2301	2.5F
13	0240	0602	4.0E	28	0159	0514	2.8E
Sa	0912	1202	3.6F	Su	0823	1123	2.7F
	1510	1834	4.0E		1420	1736	2.9E
	2151				2059	2346	2.4F
14		0035	3.2F	29	0242	0549	2.6E
Su	0337	0657	3.6E	M	0905	1206	2.6F
	1009	1258	3.3F		1505	1823	2.9E
	1606	1930	3.7E		2150		
	2255						
15		0139	2.8F	30		0038	2.3F
M	0437	0758	3.2E	Tu	0332	0636	2.5E
	1110	1402	2.9F		0953	1257	2.5F
	1705	2031	3.5E		1556	1924	2.9E
					2248		
				31		0133	2.2F
				W	0430	0742	2.4E
					1050	1352	2.5F
					1655	2027	3.0E
					2352		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 295° True E-Ebb, Dir. 100° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0232	2.3F
Th	0533	0855	2.5E
	1155	1454	2.6F
	1758	2137	3.2E
2	0056	0335	2.5F
F	0639	1002	2.7E
	1302	1555	2.9F
	1903	2237	3.5E
3	0157	0437	2.8F
Sa	0742	1106	3.2E
	1406	1700	3.2F
	2005	2336	3.9E
4	0253	0538	3.2F
Su	0841	1201	3.6E
	1506	1758	3.6F
	2103		
5		0030	4.3E
M	0346	0633	3.7F
	0936	1256	4.1E
	1602	1852	4.0F
	2158		
6		0123	4.6E
Tu	0436	0725	4.0F
	1028	1347	4.5E
	1655	1946	4.2F
	2251		
7		0212	4.8E
W	0525	0814	4.2F
	1119	1439	4.7E
	1748	2037	4.3F
	2342		
8		0302	4.8E
Th	0613	0903	4.3F
	1208	1528	4.7E
	1840	2128	4.2F
9	0033	0353	4.6E
F	0702	0951	4.2F
	1258	1619	4.6E
	1933	2219	3.9F
10	0124	0443	4.2E
Sa	0752	1042	3.9F
	1348	1712	4.3E
	2027	2311	3.5F
11	0216	0536	3.8E
Su	0844	1133	3.5F
	1439	1805	3.9E
	2125		
12		0005	3.0F
M	0310	0631	3.3E
	0940	1227	3.0F
	1533	1901	3.6E
	2226		
13		0106	2.6F
Tu	0409	0729	2.9E
	1040	1326	2.6F
	1631	2001	3.2E
	2330		
14		0217	2.3F
W	0511	0828	2.6E
	1144	1432	2.3F
	1731	2102	3.0E
15	0033	0329	2.2F
Th	0615	0930	2.5E
	1248	1546	2.2F
	1833	2201	3.0E
16	0132	0432	2.2F
F	0718	1031	2.5E
	1347	1650	2.2F
	1930	2256	3.0E
17	0225	0525	2.3F
Sa	0812	1122	2.7E
	1440	1739	2.4F
	2022	2345	3.2E
18	0312	0611	2.5F
Su	0858	1211	2.9E
	1526	1824	2.5F
	2108		
19		0031	3.3E
M	0353	0650	2.6F
	0939	1252	3.1E
	1608	1859	2.6F
	2149		
20		0112	3.4E
Tu	0431	0721	2.8F
	1015	1333	3.2E
	1647	1931	2.8F
	2227		
21		0149	3.4E
W	0506	0750	2.9F
	1049	1409	3.3E
	1723	2003	2.8F
	2304		
22		0228	3.4E
Th	0538	0818	2.9F
	1123	1447	3.4E
	1757	2037	2.9F
	2340		
23		0303	3.3E
F	0609	0853	3.0F
	1156	1521	3.4E
	1831	2112	2.9F
24	0016	0337	3.2E
Sa	0639	0930	3.0F
	1230	1553	3.4E
	1906	2153	2.8F
25	0053	0406	3.0E
Su	0712	1007	2.9F
	1307	1630	3.3E
	1946	2235	2.7F
26	0133	0439	2.9E
M	0749	1050	2.8F
	1347	1705	3.2E
	2030	2320	2.6F
27	0217	0520	2.7E
Tu	0833	1137	2.7F
	1433	1754	3.1E
	2122		
28		0011	2.5F
W	0309	0612	2.6E
	0926	1231	2.6F
	1528	1853	3.0E
	2221		
29		0106	2.4F
Th	0409	0723	2.5E
	1029	1330	2.5F
	1631	2007	3.0E
	2327		
30		0209	2.4F
F	0514	0840	2.6E
	1140	1433	2.6F
	1738	2115	3.2E

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0034	0314	2.6F
Sa	0621	0949	2.9E
	1251	1540	2.9F
	1846	2218	3.5E
2	0136	0418	2.9F
Su	0725	1050	3.4E
	1356	1644	3.2F
	1950	2318	3.9E
3	0233	0519	3.4F
M	0823	1145	3.9E
	1456	1745	3.6F
	2049		
4		0013	4.2E
Tu	0325	0614	3.8F
	0918	1239	4.4E
	1550	1840	3.9F
	2144		
5		0104	4.5E
W	0415	0705	4.1F
	1009	1330	4.7E
	1642	1931	4.1F
	2235		
6		0153	4.6E
Th	0503	0753	4.2F
	1057	1419	4.8E
	1733	2021	4.1F
	2325		
7		0242	4.5E
F	0550	0840	4.2F
	1145	1508	4.8E
	1822	2110	4.0F
8	0013	0331	4.3E
Sa	0637	0925	4.0F
	1232	1554	4.6E
	1912	2157	3.7F
9	0102	0417	3.9E
Su	0725	1014	3.6F
	1319	1645	4.2E
	2004	2245	3.3F
10	0151	0508	3.5E
M	0815	1102	3.2F
	1407	1736	3.8E
	2057	2336	2.9F
11	0243	0602	3.0E
Tu	0910	1163	2.7F
	1458	1831	3.3E
	2155		
12		0034	2.4F
W	0338	0658	2.6E
	1009	1250	2.3F
	1553	1929	3.0E
	2255		
13		0135	2.1F
Th	0437	0759	2.4E
	1113	1353	2.0F
	1652	2027	2.8E
	2356		
14		0248	2.0F
F	0540	0859	2.3E
	1218	1502	1.9F
	1753	2127	2.7E
15	0054	0351	2.1F
Sa	0639	0956	2.4E
	1317	1609	2.0F
	1852	2220	2.8E
16	0146	0447	2.2F
Su	0733	1049	2.6E
	1410	1702	2.2F
	1946	2311	2.9E
17	0233	0532	2.4F
M	0819	1139	2.9E
	1456	1745	2.4F
	2033	2354	3.1E
18	0315	0607	2.6F
Tu	0900	1220	3.2E
	1538	1824	2.6F
	2117		
19		0039	3.2E
W	0352	0639	2.8F
	0937	1259	3.4E
	1516	1858	2.8F
	2157		
20		0118	3.3E
Th	0427	0711	2.9F
	1013	1338	3.5E
	1553	1931	2.9F
	2235		
21		0155	3.3E
F	0500	0744	3.1F
	1048	1414	3.7E
	1728	2009	3.0F
	2312		
22		0231	3.3E
Sa	0532	0820	3.1F
	1123	1449	3.7E
	1804	2046	3.1F
	2350		
23		0305	3.2E
Su	0606	0859	3.2F
	1159	1526	3.7E
	1841	2127	3.0F
24	0030	0340	3.1E
M	0642	0942	3.1F
	1239	1603	3.6E
	1922	2210	3.0F
25	0112	0419	3.0E
Tu	0724	1026	3.0F
	1322	1642	3.5E
	2009	2301	2.8F
26	0200	0504	2.8E
W	0813	1115	2.9F
	1412	1738	3.4E
	2102	2352	2.7F
27	0254	0605	2.7E
Th	0911	1210	2.7F
	1510	1841	3.3E
	2202		
28		0050	2.6F
F	0354	0715	2.7E
	1018	1313	2.7F
	1614	1950	3.2E
	2307		
29		0151	2.7F
Sa	0459	0826	2.9E
	1131	1417	2.7F
	1723	2057	3.3E
30	0013	0256	2.8F
Su	0605	0930	3.2E
	1242	1526	2.9F
	1831	2201	3.5E
31	0115	0402	3.1F
M	0707	1031	3.6E
	1346	1633	3.2F
	1935	2259	3.8E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 295° True E-Ebb, Dir. 100° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 Tu	0212	0503	3.5F	16 W	0230	0513	2.5F
	0805	1129	4.1E		0816	1143	3.2E
	1444	1735	3.5F		1503	1742	2.5F
	2034	2354	4.1E		2039		
2 W	0305	0557	3.8F	17 Th		0001	3.0E
	0859	1222	4.4E		0309	0554	2.8F
	1538	1829	3.7F		0856	1226	3.4E
	2128				1543	1822	2.7F
					2122		
3 Th		0045	4.2E	18 F		0043	3.1E
	0354	0646	3.9F		0346	0630	3.0F
	0949	1311	4.7E		0935	1304	3.7E
	1629	1918	3.9F		1622	1859	2.9F
	2219				2204		
4 F		0133	4.2E	19 Sa		0124	3.2E
	0442	0735	4.0F		0422	0710	3.1F
	1036	1400	4.7E		1014	1345	3.8E
	1718	2005	3.8F		1700	1941	3.1F
	2308				2245		
5 Sa		0222	4.1E	20 Su		0203	3.2E
	0528	0818	3.9F		0459	0751	3.3F
	1122	1447	4.6E		1053	1421	3.9E
	1806	2052	3.7F		1739	2021	3.2F
	2355				2327		
6 Su		0308	3.9E	21 M		0240	3.2E
	0614	0904	3.6F		0537	0833	3.3F
	1207	1533	4.3E		1134	1504	4.0E
	1853	2137	3.4F		1820	2105	3.2F
7 M	0041	0356	3.5E	22 Tu	0010	0321	3.2E
	0701	0947	3.3F		0620	0918	3.4F
	1251	1619	4.0E		1218	1545	4.0E
	1941	2223	3.1F		1904	2152	3.2F
8 Tu	0127	0445	3.2E	23 W	0056	0408	3.2E
	0749	1033	2.9F		0707	1007	3.3F
	1336	1708	3.6E		1306	1632	3.9E
	2030	2309	2.7F		1952	2239	3.2F
9 W	0216	0533	2.8E	24 Th	0146	0458	3.1E
	0840	1120	2.5F		0801	1058	3.2F
	1424	1759	3.2E		1358	1727	3.7E
	2122	2357	2.4F		2046	2336	3.1F
10 Th	0306	0629	2.5E	25 F	0241	0559	3.1E
	0936	1210	2.1F		0901	1153	3.0F
	1514	1853	2.9E		1457	1828	3.6E
	2216				2145		
11 F		0051	2.1F	26 Sa		0031	3.0F
	0401	0723	2.3E		0341	0704	3.1E
	1037	1306	1.9F		1009	1257	2.9F
	1609	1948	2.6E		1600	1933	3.5E
	2312				2247		
12 Sa		0150	2.0F	27 Su		0134	3.0F
	0457	0822	2.3E		0443	0808	3.3E
	1139	1408	1.8F		1120	1402	2.8F
	1707	2042	2.6E		1707	2038	3.5E
					2351		
13 Su	0007	0251	2.0F	28 M		0238	3.1F
	0553	0916	2.4E		0547	0912	3.5E
	1238	1514	1.8F		1229	1512	2.9F
	1805	2139	2.6E		1814	2139	3.5E
14 M	0059	0346	2.1F	29 Tu	0052	0343	3.2F
	0645	1009	2.6E		0648	1013	3.8E
	1331	1609	2.0F		1332	1620	3.1F
	1901	2228	2.7E		1918	2239	3.7E
15 Tu	0146	0433	2.3F	30 W	0150	0443	3.4F
	0733	1100	2.9E		0746	1110	4.1E
	1419	1659	2.2F		1431	1721	3.3F
	1952	2315	2.8E		2018	2334	3.8E

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 Th	0244	0539	3.6F	16 F	0223	0510	2.7F
	0840	1203	4.3E		0815	1147	3.4E
	1525	1816	3.4F		1509	1745	2.6F
	2113				2046		
2 F		0027	3.8E	17 Sa		0007	2.9E
	0335	0630	3.7F		0305	0555	2.9F
	0930	1255	4.5E		0859	1233	3.7E
	1616	1909	3.5F		1552	1830	2.8F
	2204				2133		
3 Sa		0116	3.8E	18 Su		0050	3.1E
	0424	0717	3.6F		0348	0640	3.2F
	1017	1340	4.4E		0943	1316	3.9E
	1704	1955	3.4F		1634	1915	3.1F
	2252				2219		
4 Su		0203	3.7E	19 M		0134	3.2E
	0510	0802	3.5F		0431	0725	3.4F
	1102	1427	4.3E		1028	1359	4.1E
	1751	2038	3.3F		1717	2001	3.3F
	2338				2304		
5 M		0249	3.5E	20 Tu		0220	3.4E
	0555	0845	3.3F		0516	0810	3.6F
	1145	1512	4.1E		1114	1443	4.3E
	1835	2121	3.1F		1801	2046	3.5F
					2351		
6 Tu	0022	0335	3.2E	21 W		0305	3.5E
	0640	0926	3.0F		0603	0859	3.6F
	1227	1555	3.8E		1202	1530	4.3E
	1919	2159	2.9F		1847	2135	3.6F
7 W	0105	0419	3.0E	22 Th	0040	0354	3.6E
	0725	1007	2.7F		0655	0949	3.6F
	1309	1642	3.5E		1253	1619	4.3E
	2003	2240	2.6F		1936	2224	3.6F
8 Th	0149	0507	2.7E	23 F	0132	0448	3.6E
	0812	1050	2.4F		0750	1044	3.5F
	1351	1727	3.1E		1346	1715	4.1E
	2047	2323	2.4F		2029	2317	3.5F
9 F	0234	0556	2.5E	24 Sa	0226	0546	3.6E
	0902	1136	2.2F		0851	1139	3.4F
	1437	1816	2.9E		1444	1812	3.9E
	2134				2125		
10 Sa		0012	2.3F	25 Su		0013	3.4F
	0321	0646	2.4E		0323	0647	3.6E
	0956	1226	2.0F		0955	1240	3.2F
	1526	1906	2.6E		1545	1913	3.7E
	2222				2225		
11 Su		0100	2.1F	26 M		0114	3.3F
	0411	0738	2.3E		0423	0748	3.6E
	1053	1319	1.8F		1103	1344	3.0F
	1619	1958	2.5E		1649	2016	3.6E
	2313				2326		
12 M		0151	2.1F	27 Tu		0217	3.3F
	0502	0831	2.4E		0525	0851	3.7E
	1150	1416	1.8F		1211	1454	2.9F
	1715	2052	2.4E		1754	2117	3.5E
13 Tu	0003	0242	2.2F	28 W	0028	0322	3.2F
	0553	0924	2.6E		0626	0952	3.8E
	1245	1512	1.9F		1315	1605	2.9F
	1811	2144	2.5E		1859	2216	3.4E
14 W	0052	0333	2.3F	29 Th	0128	0425	3.3F
	0642	1015	2.8E		0725	1050	4.0E
	1337	1605	2.1F		1416	1709	3.0F
	1906	2233	2.6E		2001	2313	3.4E
15 Th	0139	0424	2.5F	30 F	0225	0526	3.3F
	0729	1103	3.1E		0821	1145	4.1E
	1424	1657	2.3F		1512	1806	3.1F
	1958	2321	2.7E		2058		
				31 Sa		0009	3.4E
					0318	0617	3.3F
					0913	1236	4.1E
					1603	1857	3.1F
					2151		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

HELL GATE (off Mill Rock), EAST RIVER, NEW YORK, 1983

F-Flood, Dir. 050° True E-Ebb, Dir. 230° True

JANUARY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1		0141	5.1E
Sa	0509	0806	3.9F
	1112	1411	5.2E
	1747	2039	3.7F
	2341		
2		0235	5.0E
Su	0605	0903	3.8F
	1207	1506	5.1E
	1842	2135	3.6F
3	0036	0330	4.9E
M	0703	1001	3.6F
	1304	1601	4.9E
	1939	2233	3.5F
4	0132	0427	4.8E
Tu	0803	1059	3.4F
	1402	1700	4.7E
	2038	2333	3.3F
5	0230	0528	4.6E
W	0906	1204	3.3F
	1501	1801	4.5E
	2138		
6		0036	3.2F
Th	0329	0635	4.5E
	1009	1308	3.1F
	1601	1908	4.4E
	2237		
7		0139	3.1F
F	0428	0740	4.4E
	1110	1411	3.1F
	1659	2014	4.3E
	2334		
8		0239	3.1F
Sa	0524	0845	4.4E
	1207	1510	3.1F
	1754	2111	4.3E
9	0027	0330	3.1F
Su	0617	0941	4.4E
	1300	1559	3.1F
	1845	2200	4.3E
10	0116	0419	3.2F
M	0705	1026	4.5E
	1347	1645	3.2F
	1933	2245	4.4E
11	0201	0504	3.2F
Tu	0752	1107	4.6E
	1431	1730	3.2F
	2016	2322	4.5E
12	0243	0543	3.3F
W	0835	1140	4.7E
	1512	1807	3.3F
	2058	2356	4.5E
13	0323	0620	3.4F
Th	0916	1217	4.7E
	1551	1844	3.3F
	2138		
14		0031	4.6E
F	0401	0657	3.4F
	0955	1253	4.8E
	1629	1919	3.3F
	2217		
15		0107	4.7E
Sa	0439	0733	3.4F
	1035	1328	4.8E
	1707	1956	3.3F
	2255		
16		0144	4.7E
Su	0516	0809	3.4F
	1114	1405	4.8E
	1744	2032	3.3F
	2333		
17		0223	4.7E
M	0554	0848	3.4F
	1153	1446	4.8E
	1822	2109	3.2F
18	0011	0302	4.7E
Tu	0632	0927	3.3F
	1232	1527	4.7E
	1900	2148	3.2F
19	0051	0345	4.6E
W	0713	1008	3.2F
	1314	1609	4.6E
	1940	2231	3.1F
20	0133	0430	4.6E
Th	0758	1055	3.1F
	1359	1654	4.5E
	2024	2319	3.0F
21	0219	0519	4.5E
F	0848	1144	3.1F
	1450	1745	4.5E
	2113		
22		0008	3.0F
Sa	0312	0613	4.5E
	0945	1239	3.0F
	1545	1838	4.4E
	2208		
		0105	3.0F
Su	0410	0708	4.5E
	1048	1339	3.0F
	1646	1937	4.4E
	2309		
24		0204	3.1F
M	0512	0809	4.6E
	1152	1442	3.1F
	1749	2039	4.5E
25	0011	0308	3.3F
Tu	0615	0912	4.7E
	1255	1547	3.3F
	1851	2140	4.6E
26	0112	0409	3.5F
W	0717	1014	4.9E
	1355	1647	3.4F
	1950	2241	4.8E
27	0211	0510	3.7F
Th	0816	1114	5.1E
	1452	1745	3.6F
	2047	2340	4.9E
28	0308	0608	3.8F
F	0913	1212	5.2E
	1546	1840	3.8F
	2141		
29		0036	5.1E
Sa	0402	0703	3.9F
	1008	1307	5.2E
	1639	1934	3.8F
	2234		
30		0130	5.1E
Su	0456	0757	4.0F
	1101	1400	5.2E
	1730	2025	3.8F
	2327		
31		0223	5.1E
M	0550	0850	3.9F
	1154	1451	5.1E
	1822	2118	3.8F

FEBRUARY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1	0018	0314	5.0E
Tu	0644	0942	3.8F
	1247	1542	5.0E
	1915	2211	3.6F
2	0111	0408	4.9E
W	0739	1037	3.6F
	1340	1636	4.7E
	2008	2305	3.4F
3	0204	0502	4.7E
Th	0836	1134	3.4F
	1434	1730	4.5E
	2103		
4		0001	3.2F
F	0259	0558	4.4E
	0934	1233	3.1F
	1530	1826	4.3E
	2159		
5		0101	3.0F
Sa	0355	0657	4.3E
	1033	1334	3.0F
	1626	1927	4.1E
	2256		
6		0200	2.9F
Su	0451	0801	4.2E
	1131	1436	2.9F
	1722	2028	4.0E
	2352		
7		0259	2.9F
M	0546	0902	4.1E
	1226	1531	2.9F
	1815	2125	4.0E
8	0044	0350	3.0F
Tu	0638	0957	4.2E
	1316	1618	3.0F
	1905	2213	4.1E
9	0131	0435	3.1F
W	0726	1038	4.3E
	1401	1701	3.1F
	1951	2254	4.3E
10	0214	0517	3.2F
Th	0811	1117	4.5E
	1443	1742	3.2F
	2033	2330	4.4E
11	0255	0556	3.4F
F	0853	1152	4.6E
	1523	1819	3.3F
	2114		
12		0005	4.5E
Sa	0333	0631	3.5F
	0934	1228	4.7E
	1600	1854	3.4F
	2153		
13		0043	4.7E
Su	0410	0709	3.5F
	1013	1305	4.8E
	1636	1927	3.5F
	2230		
14		0119	4.8E
M	0447	0743	3.6F
	1051	1339	4.8E
	1712	2002	3.5F
	2307		
15		0156	4.8E
Tu	0523	0821	3.6F
	1129	1418	4.8E
	1747	2039	3.5F
	2344		
16		0235	4.8E
W	0600	0858	3.6F
	1207	1457	4.8E
	1822	2116	3.4F
17	0022	0316	4.8E
Th	0639	0939	3.5F
	1248	1539	4.7E
	1900	2159	3.4F
18	0103	0358	4.8E
F	0722	1024	3.4F
	1332	1625	4.6E
	1942	2244	3.3F
19	0149	0447	4.7E
Sa	0811	1112	3.2F
	1421	1712	4.5E
	2031	2335	3.2F
20	0242	0540	4.6E
Su	0909	1207	3.1F
	1518	1806	4.4E
	2129		
21		0034	3.1F
M	0344	0639	4.5E
	1015	1312	3.0F
	1622	1909	4.3E
	2236		
22		0138	3.1F
Tu	0451	0744	4.5E
	1126	1417	3.1F
	1729	2014	4.3E
	2346		
23		0249	3.2F
W	0600	0852	4.6E
	1234	1531	3.2F
	1836	2121	4.5E
24	0054	0357	3.4F
Th	0706	1000	4.7E
	1337	1635	3.4F
	1937	2229	4.7E
25	0156	0501	3.7F
F	0807	1104	4.9E
	1435	1736	3.7F
	2035	2330	4.9E
26	0254	0600	3.9F
Sa	0903	1202	5.1E
	1528	1828	3.9F
	2128		
27		0026	5.1E
Su	0348	0653	4.0F
	0957	1256	5.1E
	1619	1919	4.0F
	2219		
28		0119	5.2E
M	0440	0743	4.1F
	1048	1345	5.2E
	1708	2006	4.0F
	2309		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 050° True E-Ebb, Dir. 230° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0207	5.2E	16		0128	4.9E
Tu	0530	0832	4.0F	W	0453	0752	3.8F
	1137	1431	5.1E		1104	1351	4.9E
	1756	2055	3.9F		1712	2010	3.7F
	2357				2317		
2		0254	5.1E	17		0209	5.0E
W	0620	0921	3.9F	Th	0530	0832	3.7F
	1226	1519	4.9E		1143	1432	4.8E
	1844	2143	3.7F		1748	2047	3.6F
					2356		
3	0046	0342	4.9E	18		0250	4.9E
Th	0710	1011	3.7F	F	0611	0913	3.6F
	1315	1607	4.7E		1224	1513	4.8E
	1933	2231	3.6F		1827	2132	3.6F
4	0135	0430	4.6E	19	0038	0335	4.9E
F	0801	1102	3.4F	Sa	0655	0958	3.5F
	1405	1653	4.4E		1309	1559	4.6E
	2023	2321	3.3F		1910	2217	3.4F
5	0226	0516	4.4E	20	0127	0424	4.7E
Sa	0855	1154	3.1F	Su	0746	1049	3.3F
	1457	1742	4.1E		1400	1646	4.5E
	2117				2002	2309	3.3F
6		0016	3.0F	21	0222	0517	4.6E
Su	0320	0610	4.1E	M	0845	1146	3.2F
	0951	1252	2.9F		1500	1745	4.3E
	1552	1835	3.9E		2104		
	2213						
7		0117	2.9F	22		0010	3.2F
M	0416	0708	4.0E	Tu	0327	0619	4.4E
	1049	1351	2.8F		0954	1252	3.1F
	1648	1936	3.8E		1607	1848	4.2E
	2310				2217		
8		0216	2.8F	23		0121	3.1F
Tu	0513	0811	3.9E	W	0438	0726	4.4E
	1146	1452	2.8F		1108	1405	3.1F
	1743	2039	3.8E		1716	1958	4.2E
					2332		
9	0005	0312	2.9F	24		0237	3.2F
W	0608	0912	4.0E	Th	0549	0839	4.4E
	1238	1543	2.9F		1217	1518	3.2F
	1835	2134	3.9E		1824	2111	4.4E
10	0056	0403	3.0F	25	0041	0349	3.5F
Th	0658	1000	4.1E	F	0655	0952	4.6E
	1326	1632	3.0F		1320	1623	3.5F
	1923	2219	4.1E		1925	2219	4.6E
11	0141	0448	3.2F	26	0143	0451	3.7F
F	0745	1045	4.3E	Sa	0755	1055	4.8E
	1409	1710	3.2F		1416	1722	3.7F
	2006	2258	4.3E		2020	2319	4.9E
12	0223	0527	3.4F	27	0239	0547	3.9F
Sa	0828	1122	4.5E	Su	0850	1149	4.9E
	1449	1749	3.3F		1508	1811	3.9F
	2047	2336	4.5E		2111		
13	0302	0605	3.5F	28		0014	5.1E
Su	0909	1159	4.6E	M	0331	0637	4.0F
	1527	1823	3.5F		0941	1239	5.0E
	2125				1556	1900	4.0F
					2200		
14		0014	4.7E	29		0101	5.1E
M	0339	0640	3.6F	Tu	0420	0726	4.1F
	0948	1237	4.8E		1029	1323	5.0E
	1602	1858	3.6F		1643	1945	4.0F
	2203				2247		
15		0050	4.8E	30		0146	5.1E
Tu	0416	0716	3.7F	W	0507	0811	4.0F
	1026	1312	4.8E		1115	1409	5.0E
	1637	1933	3.6F		1728	2028	3.9F
	2239				2333		
				31		0227	5.0E
				Th	0554	0854	3.9F
					1201	1450	4.8E
					1813	2114	3.7F

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0018	0310	4.8E	16		0225	5.0E
F	0640	0940	3.6F	Sa	0551	0850	3.7F
	1247	1532	4.6E		1203	1449	4.8E
	1858	2158	3.5F		1804	2108	3.6F
2	0104	0351	4.6E	17	0018	0314	4.9E
Sa	0727	1026	3.4F	Su	0639	0939	3.5F
	1334	1617	4.3E		1251	1536	4.6E
	1945	2244	3.2F		1852	2159	3.5F
3	0152	0437	4.3E	18	0110	0404	4.8E
Su	0817	1114	3.1F	M	0733	1031	3.4F
	1423	1703	4.1E		1345	1631	4.5E
	2036	2335	3.0F		1949	2256	3.3F
4	0243	0528	4.1E	19	0209	0501	4.6E
M	0910	1206	2.9F	Tu	0835	1132	3.2F
	1515	1754	3.9E		1447	1728	4.3E
	2130				2056		
5		0031	2.8F	20		0001	3.2F
Tu	0338	0620	3.9E	W	0315	0604	4.4E
	1006	1306	2.7F		0945	1242	3.1F
	1610	1848	3.7E		1555	1836	4.2E
	2228				2210		
6		0132	2.7F	21		0113	3.2F
W	0434	0719	3.8E	Th	0426	0715	4.3E
	1103	1405	2.7F		1057	1356	3.1F
	1706	1947	3.7E		1703	1949	4.2E
	2325				2324		
7		0229	2.8F	22		0229	3.2F
Th	0530	0819	3.9E	F	0536	0830	4.4E
	1158	1501	2.8F		1203	1507	3.3F
	1759	2045	3.8E		1808	2104	4.4E
8	0017	0324	2.9F	23	0031	0338	3.4F
F	0623	0915	4.0E	Sa	0640	0941	4.5E
	1247	1550	3.0F		1304	1610	3.5F
	1847	2137	4.1E		1907	2211	4.7E
9	0105	0409	3.1F	24	0130	0438	3.7F
Sa	0711	1003	4.2E	Su	0738	1042	4.7E
	1331	1631	3.2F		1357	1703	3.7F
	1932	2221	4.3E		2000	2308	4.9E
10	0148	0451	3.3F	25	0224	0531	3.8F
Su	0755	1044	4.4E	M	0830	1132	4.8E
	1412	1710	3.3F		1447	1753	3.8F
	2013	2302	4.5E		2050	2353	5.0E
11	0229	0530	3.5F	26	0314	0618	3.9F
M	0837	1124	4.6E	Tu	0919	1217	4.9E
	1451	1749	3.5F		1533	1838	3.9F
	2053	2341	4.7E		2136		
12	0308	0608	3.7F	27		0040	5.1E
Tu	0918	1202	4.8E	W	0400	0703	3.9F
	1528	1824	3.6F		1004	1300	4.9E
	2131				1618	1921	3.9F
					2221		
13		0021	4.9E	28		0122	5.1E
W	0347	0647	3.8F	Th	0445	0747	3.9F
	0957	1241	4.9E		1049	1341	4.8E
	1604	1902	3.7F		1701	2002	3.8F
	2210				2304		
14		0101	5.0E	29		0203	5.0E
Th	0427	0725	3.8F	F	0529	0828	3.7F
	1037	1321	4.9E		1132	1421	4.7E
	1641	1941	3.8F		1744	2043	3.6F
	2250				2348		
15		0142	5.1E	30		0239	4.8E
F	0507	0807	3.8F	Sa	0613	0911	3.5F
	1119	1404	4.9E		1215	1500	4.5E
	1721	2023	3.7F		1827	2126	3.4F
	2332						

Time meridian 75° W. 0000 is midnight. 1200 is noon.

HELL GATE (off Mill Rock), EAST RIVER, NEW YORK, 1983

F-Flood, Dir. 050° True E-Ebb, Dir. 230° True

MAY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1	0032	0322	4.6E
Su	0657	0952	3.3F
	1300	1543	4.3E
	1912	2210	3.2F
2	0117	0404	4.4E
M	0744	1036	3.1F
	1346	1627	4.1E
	2000	2256	3.0F
3	0205	0450	4.2E
Tu	0834	1126	2.9F
	1435	1712	4.0E
	2052	2347	2.8F
4	0256	0541	4.0E
W	0927	1220	2.7F
	1528	1805	3.9E
	2147		
5		0043	2.7F
Th	0351	0635	4.0E
	1022	1316	2.7F
	1621	1900	3.9E
	2243		
6		0140	2.8F
F	0446	0730	4.0E
	1115	1411	2.8F
	1714	1955	4.0E
	2336		
7		0233	2.9F
Sa	0539	0823	4.1E
	1205	1502	2.9F
	1803	2049	4.1E
8	0026	0325	3.0F
Su	0629	0915	4.2E
	1251	1547	3.1F
	1849	2138	4.4E
9	0112	0410	3.2F
M	0715	1000	4.4E
	1333	1629	3.3F
	1933	2223	4.6E
10	0156	0454	3.4F
Tu	0800	1045	4.6E
	1414	1710	3.5F
	2016	2306	4.8E
11	0238	0533	3.6F
W	0843	1130	4.8E
	1454	1753	3.6F
	2058	2351	5.0E
12	0321	0616	3.7F
Th	0926	1213	4.9E
	1535	1834	3.7F
	2141		
13		0036	5.1E
F	0405	0659	3.8F
	1010	1256	4.9E
	1617	1917	3.8F
	2225		
14		0120	5.1E
Sa	0450	0746	3.7F
	1056	1343	4.9E
	1702	2004	3.8F
	2312		
15		0209	5.1E
Su	0539	0834	3.7F
	1144	1430	4.8E
	1751	2053	3.7F
16	0003	0258	5.0E
M	0631	0927	3.5F
	1236	1522	4.7E
	1845	2148	3.5F
17	0058	0351	4.8E
Tu	0728	1024	3.4F
	1333	1617	4.5E
	1946	2246	3.4F
18	0158	0450	4.6E
W	0831	1125	3.2F
	1435	1718	4.4E
	2054	2354	3.2F
19	0304	0554	4.5E
Th	0938	1233	3.1F
	1540	1829	4.3E
	2205		
20		0107	3.2F
F	0412	0707	4.4E
	1045	1345	3.2F
	1645	1941	4.4E
	2314		
21		0217	3.3F
Sa	0518	0817	4.4E
	1148	1452	3.3F
	1747	2053	4.5E
22	0018	0324	3.4F
Su	0619	0925	4.5E
	1245	1550	3.5F
	1844	2154	4.7E
23	0115	0419	3.5F
M	0715	1022	4.6E
	1337	1641	3.6F
	1936	2248	4.8E
24	0207	0510	3.6F
Tu	0806	1111	4.7E
	1425	1730	3.7F
	2025	2335	4.9E
25	0255	0558	3.7F
W	0853	1156	4.8E
	1510	1815	3.7F
	2110		
26		0018	5.0E
Th	0340	0641	3.7F
	0937	1233	4.8E
	1554	1857	3.7F
	2154		
27		0057	4.9E
F	0423	0722	3.6F
	1020	1314	4.7E
	1636	1936	3.6F
	2236		
28		0134	4.9E
Sa	0505	0801	3.5F
	1102	1350	4.6E
	1717	2015	3.5F
	2318		
29		0213	4.8E
Su	0548	0842	3.4F
	1144	1428	4.5E
	1759	2057	3.4F
30	0000	0251	4.6E
M	0630	0922	3.2F
	1226	1509	4.4E
	1842	2136	3.2F
31	0043	0332	4.5E
Tu	0714	1004	3.1F
	1310	1552	4.3E
	1927	2221	3.1F

JUNE

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1	0128	0416	4.4E
W	0800	1049	2.9F
	1356	1637	4.2E
	2015	2306	2.9F
2	0216	0503	4.2E
Th	0848	1138	2.8F
	1444	1726	4.1E
	2106	2357	2.8F
3	0306	0554	4.2E
F	0938	1227	2.8F
	1534	1817	4.1E
	2158		
4		0051	2.8F
Sa	0358	0645	4.1E
	1029	1317	2.8F
	1625	1909	4.1E
	2251		
5		0144	2.9F
Su	0451	0738	4.2E
	1118	1410	2.9F
	1715	2002	4.3E
	2343		
6		0235	3.0F
M	0543	0830	4.3E
	1206	1459	3.1F
	1804	2053	4.5E
7	0033	0327	3.2F
Tu	0633	0921	4.5E
	1252	1547	3.2F
	1852	2146	4.7E
8	0122	0415	3.3F
W	0722	1010	4.6E
	1338	1635	3.4F
	1940	2234	4.9E
9	0210	0504	3.5F
Th	0810	1058	4.8E
	1423	1722	3.6F
	2028	2323	5.0E
10	0258	0552	3.6F
F	0858	1146	4.9E
	1510	1809	3.7F
	2116		
11		0012	5.1E
Sa	0346	0641	3.7F
	0946	1235	4.9E
	1558	1858	3.8F
	2206		
12		0103	5.2E
Su	0436	0730	3.7F
	1036	1325	4.9E
	1649	1950	3.8F
	2257		
13		0154	5.1E
M	0528	0821	3.7F
	1128	1418	4.9E
	1742	2041	3.7F
	2351		
14		0247	5.1E
Tu	0623	0916	3.6F
	1223	1511	4.8E
	1840	2140	3.6F
15	0048	0343	4.9E
W	0721	1014	3.4F
	1320	1608	4.7E
	1941	2240	3.5F
16	0148	0440	4.7E
Th	0821	1115	3.3F
	1420	1710	4.6E
	2047	2345	3.3F
17	0251	0544	4.6E
F	0924	1221	3.3F
	1522	1816	4.5E
	2153		
18		0055	3.3F
Sa	0354	0652	4.5E
	1026	1327	3.2F
	1624	1927	4.5E
	2258		
19		0200	3.3F
Su	0457	0801	4.4E
	1126	1430	3.3F
	1724	2035	4.5E
	2359		
20		0305	3.3F
M	0556	0904	4.4E
	1222	1527	3.4F
	1820	2136	4.6E
21	0055	0359	3.4F
Tu	0650	0959	4.5E
	1314	1618	3.4F
	1912	2227	4.7E
22	0146	0450	3.4F
W	0740	1051	4.5E
	1402	1707	3.5F
	2000	2314	4.7E
23	0234	0535	3.5F
Th	0827	1130	4.6E
	1447	1751	3.5F
	2045	2355	4.8E
24	0318	0618	3.5F
F	0911	1209	4.6E
	1530	1831	3.5F
	2128		
25		0032	4.8E
Sa	0400	0657	3.5F
	0953	1248	4.6E
	1611	1909	3.5F
	2210		
26		0108	4.8E
Su	0441	0735	3.4F
	1034	1324	4.6E
	1651	1950	3.5F
	2251		
27		0146	4.7E
M	0521	0813	3.4F
	1114	1402	4.6E
	1731	2029	3.4F
	2332		
28		0223	4.7E
Tu	0601	0852	3.3F
	1155	1440	4.5E
	1812	2107	3.3F
29	0013	0302	4.6E
W	0642	0932	3.2F
	1236	1521	4.4E
	1853	2148	3.2F
30	0056	0345	4.5E
Th	0723	1014	3.1F
	1319	1602	4.4E
	1936	2233	3.1F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 050° True E-Ebb, Dir. 230° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 F	0140	0428	4.4E	16 Sa	0234	0528	4.6E
	0806	1056	3.0F		0900	1201	3.4F
	1402	1648	4.3E		1502	1757	4.5E
	2021	2315	3.0F		2130		
2 Sa	0226	0515	4.3E	17 Su		0033	3.3F
	0851	1142	2.9F		0334	0629	4.4E
	1449	1737	4.3E		0959	1302	3.3F
	2110				1601	1903	4.4E
					2233		
3 Su		0006	3.0F	18 M		0138	3.2F
	0315	*0602*	*4.3E*		*0434*	*0736*	*4.3E*
	0938	1233	2.9F		1058	1405	3.2F
	1538	1826	4.3E		1700	2010	4.4E
	2202				2333		
4 M		0057	3.0F	19 Tu		0239	3.2F
	0406	0652	4.3E		0532	0840	4.2E
	1027	1321	3.0F		1154	1505	3.2F
	1629	1919	4.4E		1756	2113	4.4E
	2257						
5 Tu		0152	3.0F	20 W	0029	0334	3.2F
	0500	0747	4.3E		0626	0937	4.2E
	1118	1414	3.1F		1247	1556	3.3F
	1723	2014	4.5E		1849	2206	4.4E
	2352						
6 W		0245	3.1F	21 Th	0121	0425	3.2F
	0555	0842	4.4E		0717	1024	4.3E
	1210	1509	3.2F		1336	1645	3.3F
	1817	2110	4.6E		1938	2252	4.5E
7 Th	0047	0341	3.3F	22 F	0208	0511	3.3F
	0649	0937	4.5E		0804	1107	4.3E
	1303	1602	3.4F		1421	1730	3.4F
	1911	2206	4.8E		2024	2333	4.5E
8 F	0142	0438	3.4F	23 Sa	0252	0552	3.3F
	0743	1028	4.7E		0848	1146	4.4E
	1356	1655	3.6F		1503	1809	3.5F
	2005	2300	5.0E		2107		
9 Sa	0236	0529	3.6F	24 Su		0009	4.6E
	0836	1124	4.8E		0333	0633	3.4F
	1449	1749	3.8F		0929	1222	4.5E
	2059	2353	5.1E		1544	1846	3.5F
					2148		
10 Su	0329	0622	3.7F	25 M		0044	4.6E
	0929	1217	4.9E		0412	0710	3.4F
	1542	1844	3.9F		1009	1257	4.5E
	2153				1622	1923	3.5F
					2228		
11 M		0047	5.1E	26 Tu	0119	0745	4.7E
	0421	0715	3.8F		0450	*1048*	3.4F
	1022	1312	5.0E		*1048*	*1333*	*4.6E*
	1636	1939	3.9F		1700	1959	3.5F
	2247				2308		
12 Tu		0142	5.1E	27 W		0156	4.7E
	0515	0809	3.8F		0528	0821	3.4F
	1116	1405	5.0E		1127	1412	4.6E
	1731	2032	3.9F		1738	2037	3.5F
	2342				2347		
13 W		0237	5.1E	28 Th		0233	4.7E
	0609	0903	3.7F		0605	0858	3.4F
	1210	1501	4.9E		1206	1451	4.6E
	1828	2129	3.8F		1816	2116	3.4F
14 Th	0038	0332	4.9E	29 F	0027	0312	4.6E
	0704	1001	3.6F		0642	0935	3.3F
	1306	1556	4.8E		1245	1530	4.5E
	1927	2227	3.6F		1855	2155	3.3F
15 F	0135	0427	4.8E	30 Sa	0108	0355	4.5E
	0801	1059	3.5F		0720	1017	3.2F
	1403	*1656*	*4.7E*		1326	1613	4.5E
	2028	2329	3.5F		1936	2236	3.3F
				31 Su	0151	0437	4.4E
					0800	1059	3.1F
					1409	1700	4.4E
					2022	2325	3.2F

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 M	0238	0522	4.3E	16 Tu		0109	3.2F
	0845	1149	3.1F		0409	0702	4.1E
	1458	1747	4.4E		1024	1335	3.2F
	2113				1635	1937	4.1E
					2301		
2 Tu		0016	3.1F	17 W		0212	3.1F
	0329	0613	4.3E		0508	0809	4.0E
	0935	1240	3.1F		1122	1436	3.1F
	1551	1843	4.4E		1732	2041	4.1E
	2211				2358		
3 W		0113	3.1F	18 Th		0310	3.1F
	0425	*0712*	*4.3E*		0603	0912	3.9E
	1031	1337	3.2F		1217	1531	3.2F
	1650	1940	4.4E		1827	2140	4.1E
	2313						
4 Th		0211	3.1F	19 F	0051	0403	3.1F
	0525	0807	4.3E		0655	1003	4.0E
	1131	1436	3.3F		1307	1620	3.2F
	1751	2041	4.5E		1917	2229	4.2E
5 F	0016	0312	3.2F	20 Sa	0138	0448	3.2F
	0625	0909	4.4E		0742	1045	4.1E
	1233	1538	3.4F		1353	1708	3.4F
	1851	2140	4.7E		2003	2308	4.3E
6 Sa	0117	0413	3.4F	21 Su	0222	0529	3.3F
	0724	1008	4.6E		0825	1122	4.3E
	1333	1639	3.6F		1434	1743	3.5F
	1950	2242	4.8E		2045	2343	4.4E
7 Su	0215	0513	3.6F	22 M	0302	0604	3.4F
	0821	1107	4.8E		0905	1155	4.4E
	1431	*1736*	*3.8F*		*1514*	*1820*	*3.6F*
	2048	2339	5.0E		2126		
8 M	0310	0609	3.8F	23 Tu		0018	4.5E
	0916	1204	4.9E		0340	0641	3.5F
	1527	1831	4.0F		0944	1231	4.5E
	2143				1551	1856	3.6F
					2205		
9 Tu		0036	5.1E	24 W		0052	4.6E
	0403	0702	3.9F		0416	0715	3.6F
	1009	1300	5.0E		1022	1306	4.6E
	1621	1927	4.0F		1628	1931	3.7F
	2237				2243		
10 W		0129	5.1E	25 Th		0126	4.7E
	0456	0756	3.9F		0452	0750	3.6F
	1102	1353	5.1E		1058	1341	4.7E
	1716	*2021*	*4.0F*		*1703*	*2006*	*3.7F*
	2330				2321		
11 Th		0221	5.1E	26 F		0203	4.7E
	0548	0847	3.9F		0526	0825	3.6F
	2155	*2447*	*5.0E*		1135	1420	4.7E
	1810	2114	4.0F		1739	2042	3.6F
					2359		
12 F	0024	0313	4.9E	27 Sa		0240	4.6E
	0640	0942	3.8F		0600	0901	3.5F
	1248	1539	4.9E		1212	1501	4.7E
	1905	2209	3.8F		1816	2122	3.6F
13 Sa	0118	0407	4.7E	28 Su	0038	0319	4.6E
	0733	1036	3.7F		0636	0940	3.4F
	1342	1636	4.7E		1252	1542	4.6E
	2002	2306	3.6F		1856	2203	3.5F
14 Su	0214	0502	4.5E	29 M	0120	0404	4.5E
	0828	1132	3.5F		0714	1021	3.4F
	1438	1731	4.5E		1335	1624	4.5E
	2100				1941	2250	3.3F
15 M		0006	3.4F	30 Tu	0206	0451	4.3E
	0311	0603	4.3E		0758	1110	3.3F
	0925	1232	3.3F		1425	1715	4.4E
	1536	1834	4.3E		*2033*	*2342*	*3.2F*
	2201						
				31 W	0259	0542	4.2E
					0851	1203	3.2F
					1522	1810	4.4E
					2134		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

THE NARROWS, NEW YORK HARBOR, NEW YORK, 1983

F-Flood, Dir. 340° True E-Ebb, Dir. 160° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0152	2.3E	16		0206	1.8E
Sa	0509	0754	2.4F	Su	0528	0801	1.8F
	1112	1429	2.6E		1118	1438	2.1E
	1807	2028	1.8F		1821	2032	1.4F
	2330				2336		
2		0243	2.3E	17		0247	1.8E
Su	0604	0850	2.3F	M	0609	0846	1.7F
	1204	1519	2.6E		1159	1515	2.0E
	1859	2127	1.8F		1901	2117	1.4F
3	0026	0336	2.2E	18	0019	0326	1.7E
M	0703	0945	2.1F	Tu	0653	0933	1.6F
	1256	1609	2.4E		1239	1552	2.0E
	1953	2227	1.8F		1942	2201	1.4F
4	0123	0431	2.1E	19	0104	0409	1.7E
Tu	0807	1044	1.9F	W	0744	1020	1.5F
	1347	1703	2.2E		1320	1633	1.9E
	2049	2325	1.8F		2025	2250	1.5F
5	0220	0531	1.9E	20	0151	0457	1.6E
W	0911	1144	1.7F	Th	0841	1107	1.4F
	1440	1802	2.1E		1404	1720	1.8E
	2143				2109	2335	1.5F
6		0023	1.8F	21	0241	0552	1.6E
Th	0320	0637	1.9E	F	0940	1156	1.3F
	1014	1242	1.5F		1451	1813	1.7E
	1535	1900	2.0E		2154		
	2237						
7		0121	1.7F	22		0024	1.6F
F	0422	0742	1.8E	Sa	0337	0657	1.6E
	1115	1345	1.4F		1039	1250	1.3F
	1632	1958	1.9E		1544	1911	1.7E
	2329				2242		
8		0227	1.7F	23		0117	1.7F
Sa	0524	0839	1.9E	Su	0436	0756	1.8E
	1214	1502	1.3F		1138	1345	1.2F
	1729	2049	1.9E		1643	2008	1.8E
					2333		
9	0020	0330	1.8F	24		0213	1.8F
Su	0620	0931	1.9E	M	0536	0854	1.9E
	1312	1606	1.2F		1238	1446	1.2F
	1823	2138	1.8E		1743	2101	1.9E
10	0111	0423	1.8F	25	0028	0314	1.9F
M	0710	1020	1.9E	Tu	0634	0947	2.1E
	1406	1655	1.3F		1335	1547	1.4F
	1912	2223	1.8E		1841	2154	2.0E
11	0159	0510	1.9F	26	0124	0413	2.1F
Tu	0755	1109	2.0E	W	0728	1041	2.2E
	1455	1740	1.3F		1430	1648	1.5F
	1958	2310	1.8E		1936	2251	2.1E
12	0245	0545	1.9F	27	0220	0508	2.3F
W	0837	1156	2.0E	Th	0820	1137	2.4E
	1540	1815	1.3F		1520	1740	1.7F
	2042	2359	1.7E		2030	2347	2.2E
13	0328	0618	1.9F	28	0313	0559	2.4F
Th	0918	1238	2.0E	F	0912	1229	2.5E
	1622	1846	1.3F		1608	1831	1.9F
	2125				2124		
14		0042	1.7E	29		0043	2.4E
F	0409	0646	1.9F	Sa	0406	0649	2.5F
	0958	1320	2.1E		1003	1321	2.6E
	1702	1915	1.4F		1655	1918	2.0F
	2208				2218		
15		0127	1.8E	30		0137	2.4E
Sa	0448	0722	1.9F	Su	0457	0738	2.4F
	1038	1359	2.1E		1053	1410	2.6E
	1741	1951	1.4F		1742	2010	2.0F
	2252				2313		
				31		0228	2.4E
				M	0550	0831	2.3F
					1143	1457	2.6E
					1831	2104	2.0F

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0007	0316	2.4E	16		0300	1.9E
Tu	0646	0924	2.1F	W	0610	0904	1.7F
	1232	1545	2.4E		1210	1521	2.0E
	1922	2201	1.9F		1858	2130	1.6F
2	0100	0409	2.2E	17	0035	0339	1.9E
W	0745	1020	1.9F	Th	0717	0950	1.6F
	1320	1634	2.2E		1250	1558	1.9E
	2015	2253	1.9F		1937	2217	1.7F
3	0154	0505	2.0E	18	0120	0424	1.8E
Th	0846	1116	1.6F	F	0811	1039	1.5F
	1409	1725	2.0E		1332	1637	1.8E
	2109	2347	1.8F		2021	2304	1.7F
4	0249	0604	1.8E	19	0210	0519	1.8E
F	0947	1210	1.4F	Sa	0911	1128	1.4F
	1500	1824	1.8E		1419	1731	1.7E
	2203				2112	2353	1.7F
5		0043	1.7F	20	0304	0622	1.7E
Sa	0348	0708	1.7E	Su	1012	1221	1.3F
	1048	1309	1.2F		1512	1836	1.7E
	1555	1923	1.7E		2207		
	2256						
6		0142	1.6F	21		0047	1.7F
Su	0449	0809	1.7E	M	0405	0728	1.8E
	1147	1424	1.1F		1113	1318	1.2F
	1654	2020	1.7E		1614	1941	1.7E
	2350				2306		
7		0253	1.6F	22		0146	1.8F
M	0548	0904	1.7E	Tu	0509	0828	1.9E
	1245	1537	1.1F		1214	1420	1.2F
	1752	2112	1.6E		1719	2040	1.8E
8	0042	0357	1.6F	23	0007	0249	1.9F
Tu	0641	0953	1.8E	W	0611	0924	2.1E
	1340	1632	1.1F		1312	1528	1.3F
	1846	2157	1.6E		1822	2138	2.0E
9	0134	0448	1.7F	24	0108	0357	2.0F
W	0728	1042	1.9E	Th	0708	1019	2.2E
	1430	1717	1.2F		1407	1635	1.6F
	1935	2246	1.7E		1921	2235	2.1E
10	0222	0527	1.8F	25	0207	0457	2.2F
Th	0811	1126	1.9E	F	0802	1116	2.4E
	1514	1759	1.3F		1458	1730	1.8F
	2020	2333	1.7E		2016	2330	2.3E
11	0307	0558	1.8F	26	0302	0548	2.3F
F	0852	1211	2.0E	Sa	0853	1209	2.5E
	1555	1828	1.4F		1545	1815	2.0F
	2103				2109		
12		0021	1.8E	27		0027	2.4E
Sa	0349	0628	1.9F	Su	0354	0636	2.4F
	0932	1254	2.1E		0942	1300	2.6E
	1634	1853	1.5F		1631	1901	2.1F
	2145				2201		
13		0104	1.8E	28		0120	2.5E
Su	0429	0659	1.9F	M	0445	0723	2.3F
	1012	1333	2.1E		1031	1348	2.6E
	1710	1925	1.5F		1716	1947	2.1F
	2227				2253		
14		0145	1.9E				
M	0508	0738	1.8F				
	1051	1410	2.1E				
	1746	2002	1.6F				
	2309						
15		0223	1.9E				
Tu	0548	0819	1.8F				
	1130	1446	2.1E				
	1822	2045	1.6F				
	2351						

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 340° True E-Ebb, Dir. 160° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0209	2.5E	16		0159	2.1E
Tu	0535	0809	2.2F	W	0527	0753	1.8F
	1118	1434	2.5E		1101	1416	2.1E
	1802	2036	2.1F		1742	2012	1.8F
	2344				2324		
2		0257	2.4E	17		0239	2.1E
W	0627	0900	2.0F	Th	0609	0836	1.7F
	1205	1517	2.4E		1141	1453	2.1E
	1849	2129	2.0F		1816	2057	1.8F
3	0035	0345	2.3E	18	0008	0318	2.1E
Th	0722	0951	1.7F	F	0656	0925	1.6F
	1251	1603	2.2E		1222	1530	2.0E
	1939	2220	1.9F		1855	2145	1.8F
4	0125	0434	2.1E	19	0054	0401	2.0E
F	0820	1045	1.5F	Sa	0750	1014	1.5F
	1338	1651	1.9E		1307	1609	1.9E
	2033	2311	1.8F		1942	2236	1.8F
5	0216	0528	1.8E	20	0144	0453	1.9E
Sa	0920	1136	1.3F	Su	0850	1105	1.4F
	1427	1746	1.7E		1355	1702	1.7E
	2128				2040	2329	1.8F
6		0002	1.6F	21	0239	0556	1.8E
Su	0310	0631	1.7E	M	0952	1159	1.3F
	1019	1232	1.1F		1451	1811	1.7E
	1520	1846	1.5E		2143		
	2223						
7		0055	1.5F	22		0026	1.8F
M	0409	0733	1.6E	Tu	0340	0705	1.8E
	1117	1333	1.0F		1052	1256	1.3F
	1619	1947	1.5E		1555	1921	1.7E
	2318				2248		
8		0201	1.4F	23		0123	1.8F
Tu	0509	0831	1.6E	W	0445	0809	1.9E
	1214	1500	1.0F		1152	1401	1.3F
	1721	2041	1.5E		1703	2024	1.8E
					2353		
9	0013	0318	1.4F	24		0229	1.8F
W	0605	0921	1.7E	Th	0549	0905	2.1E
	1308	1602	1.1F		1249	1512	1.4F
	1819	2132	1.6E		1808	2125	2.0E
10	0106	0415	1.5F	25	0055	0344	1.9F
Th	0655	1008	1.8E	F	0648	1000	2.2E
	1357	1651	1.2F		1343	1623	1.7F
	1910	2219	1.6E		1907	2219	2.2E
11	0157	0458	1.6F	26	0155	0448	2.1F
F	0740	1055	1.9E	Sa	0742	1052	2.3E
	1442	1730	1.4F		1433	1718	1.9F
	1955	2308	1.7E		2001	2316	2.3E
12	0243	0533	1.7F	27	0250	0538	2.2F
Sa	0822	1138	2.0E	Su	0831	1146	2.4E
	1522	1759	1.5F		1520	1801	2.1F
	2038	2353	1.8E		2053		
13	0327	0605	1.8F	28		0009	2.4E
Su	0902	1221	2.0E	M	0342	0624	2.2F
	1600	1824	1.6F		0919	1235	2.4E
	2119				1604	1844	2.2F
					2143		
14		0036	2.0E	29		0101	2.5E
M	0408	0636	1.8F	Tu	0431	0705	2.1F
	0942	1302	2.1E		1006	1321	2.4E
	1635	1857	1.7F		1648	1925	2.2F
	2200				2232		
15		0120	2.0E	30		0149	2.5E
Tu	0447	0712	1.8F	W	0519	0748	2.0F
	1021	1339	2.1E		1051	1407	2.4E
	1709	1933	1.8F		1732	2009	2.1F
	2242				2320		
				31		0235	2.4E
				Th	0608	0834	1.8F
					1137	1448	2.2E
					1816	2055	2.0F

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0007	0319	2.3E	16		0300	2.3E
F	0700	0923	1.6F	Sa	0639	0900	1.6F
	1222	1533	2.0E		1158	1505	2.0E
	1904	2143	1.9F		1824	2120	2.0F
2	0055	0405	2.1E	17	0033	0345	2.2E
Sa	0755	1014	1.4F	Su	0733	0952	1.5F
	1307	1618	1.8E		1247	1550	1.9E
	1956	2234	1.7F		1916	2215	1.9F
3	0143	0456	1.8E	18	0124	0436	2.1E
Su	0852	1105	1.2F	M	0832	1047	1.4F
	1355	1709	1.6E		1339	1646	1.8E
	2052	2323	1.6F		2019	2308	1.9F
4	0233	0554	1.7E	19	0219	0537	2.0E
M	0949	1158	1.1F	Tu	0933	1142	1.4F
	1448	1810	1.4E		1437	1755	1.7E
	2149				2128		
5		0014	1.4F	20		0006	1.8F
Tu	0327	0654	1.6E	W	0319	0645	1.9E
	1045	1252	1.0F		1032	1241	1.4F
	1546	1912	1.4E		1542	1906	1.7E
	2246				2235		
6		0111	1.3F	21		0107	1.7F
W	0425	0755	1.6E	Th	0423	0748	2.0E
	1139	1404	1.0F		1128	1345	1.4F
	1649	2010	1.4E		1650	2011	1.9E
	2342				2340		
7		0214	1.3F	22		0214	1.7F
Th	0523	0846	1.7E	F	0527	0846	2.1E
	1230	1517	1.1F		1223	1501	1.6F
	1748	2101	1.5E		1755	2109	2.0E
8	0036	0330	1.4F	23	0042	0331	1.8F
F	0616	0933	1.8E	Sa	0625	0938	2.2E
	1318	1612	1.3F		1316	1607	1.8F
	1840	2150	1.7E		1853	2203	2.2E
9	0128	0422	1.5F	24	0141	0434	1.9F
Sa	0704	1016	1.9E	Su	0718	1029	2.3E
	1403	1655	1.5F		1406	1700	2.0F
	1927	2236	1.8E		1946	2258	2.3E
10	0216	0501	1.6F	25	0236	0524	2.0F
Su	0747	1101	1.9E	M	0807	1120	2.3E
	1444	1723	1.6F		1453	1745	2.2F
	2009	2323	1.9E		2035	2351	2.4E
11	0302	0536	1.7F	26	0327	0608	2.0F
M	0828	1143	2.0E	Tu	0853	1209	2.3E
	1522	1752	1.8F		1538	1824	2.2F
	2051				2123		
12		0009	2.1E	27		0040	2.4E
Tu	0345	0609	1.8F	W	0416	0647	1.9F
	0909	1226	2.1E		0938	1255	2.2E
	1557	1825	1.9F		1621	1901	2.2F
	2132				2209		
13		0052	2.2E	28		0128	2.4E
W	0426	0647	1.8F	Th	0503	0727	1.7F
	0949	1307	2.1E		1023	1341	2.2E
	1631	1902	2.0F		1703	1940	2.1F
	2214				2255		
14		0133	2.2E	29		0212	2.3E
Th	0507	0726	1.7F	F	0550	0809	1.6F
	1030	1347	2.1E		1108	1422	2.0E
	1705	1944	2.1F		1746	2023	2.0F
	2258				2340		
15		0217	2.3E	30		0255	2.2E
F	0551	0811	1.7F	Sa	0638	0854	1.4F
	1113	1426	2.1E		1153	1505	1.9E
	1742	2031	2.0F		1831	2109	1.8F
	2344						

Time meridian 75° W. 0000 is midnight. 1200 is noon.

DELAWARE BAY ENTRANCE, 1983

F-Flood, Dir. 305° True E-Ebb, Dir. 140° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0127	1.8E
Sa	0442	0746	2.0F
	1056	1403	2.0E
	1733	2020	1.7F
	2321		
2		0222	1.8E
Su	0539	0841	1.9F
	1151	1458	1.9E
	1829	2116	1.7F
3	0020	0320	1.7E
M	0640	0940	1.8F
	1249	1557	1.9E
	1927	2214	1.6F
4	0122	0423	1.7E
Tu	0745	1039	1.7F
	1349	1656	1.8E
	2026	2315	1.6F
5	0226	0527	1.6E
W	0851	1143	1.6F
	1451	1759	1.8E
	2126		
6		0018	1.7F
Th	0330	0635	1.7E
	0957	1245	1.6F
	1552	1900	1.7E
	2224		
7		0117	1.7F
F	0432	0740	1.7E
	1059	1345	1.6F
	1652	1959	1.8E
	2319		
8		0216	1.8F
Sa	0529	0839	1.8E
	1158	1444	1.6F
	1748	2059	1.8E
9	0011	0309	1.9F
Su	0622	0934	1.9E
	1252	1537	1.6F
	1839	2146	1.8E
10	0100	0359	1.9F
M	0711	1022	1.9E
	1341	1626	1.6F
	1927	2231	1.7E
11	0145	0444	1.9F
Tu	0755	1105	1.9E
	1427	1707	1.6F
	2011	2314	1.7E
12	0226	0523	1.9F
W	0836	1144	1.9E
	1508	1750	1.5F
	2051	2349	1.7E
13	0305	0600	1.8F
Th	0913	1217	1.8E
	1547	1826	1.5F
	2128		
14		0025	1.6E
F	0341	0639	1.8F
	0948	1251	1.8E
	1623	1904	1.5F
	2203		
15		0100	1.6E
Sa	0416	0715	1.7F
	1022	1326	1.8E
	1657	1939	1.5F
	2238		
16		0137	1.6E
Su	0451	0752	1.7F
	1056	1401	1.8E
	1731	2018	1.5F
	2315		
17		0215	1.6E
M	0528	0833	1.7F
	1133	1442	1.8E
	1807	2101	1.5F
	2355		
18		0258	1.6E
Tu	0610	0915	1.6F
	1213	1525	1.8E
	1846	2142	1.6F
19	0040	0343	1.6E
W	0656	1002	1.6F
	1257	1608	1.8E
	1930	2233	1.6F
20	0129	0434	1.6E
Th	0748	1053	1.5F
	1346	1658	1.7E
	2017	2321	1.6F
21	0222	0527	1.6E
F	0845	1146	1.5F
	1439	1751	1.7E
	2109		
22		0016	1.6F
Sa	0318	0624	1.6E
	0947	1243	1.5F
	1536	1846	1.7E
	2205		
23		0111	1.7F
Su	0418	0724	1.7E
	1050	1341	1.5F
	1636	1945	1.7E
	2302		
24		0210	1.7F
M	0518	0823	1.7E
	1153	1442	1.5F
	1736	2041	1.7E
25	0000	0305	1.8F
Tu	0617	0924	1.8E
	1254	1539	1.5F
	1836	2140	1.7E
26	0058	0403	1.9F
W	0714	1020	1.9E
	1352	1635	1.6F
	1934	2237	1.8E
27	0154	0457	2.0F
Th	0810	1116	2.0E
	1446	1730	1.7F
	2031	2332	1.8E
28	0249	0551	2.0F
F	0903	1210	2.0E
	1539	1823	1.7F
	2126		
29		0026	1.9E
Sa	0343	0644	2.0F
	0955	1301	2.1E
	1630	1917	1.8F
	2219		
30		0120	1.9E
Su	0438	0737	2.0F
	1047	1353	2.1E
	1720	2008	1.8F
	2313		
31		0213	1.9E
M	0532	0828	1.9F
	1138	1442	2.0E
	1811	2101	1.8F

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1	0007	0305	1.8E
Tu	0628	0922	1.8F
	1230	1535	1.9E
	1902	2152	1.8F
2	0102	0401	1.8E
W	0725	1017	1.7F
	1323	1630	1.9E
	1955	2246	1.8F
3	0158	0459	1.7E
Th	0824	1111	1.6F
	1418	1725	1.8E
	2049	2343	1.7F
4	0256	0600	1.7E
F	0925	1209	1.5F
	1515	1821	1.7E
	2144		
5		0038	1.7F
Sa	0354	0657	1.7E
	1025	1306	1.5F
	1612	1919	1.6E
	2239		
6		0134	1.7F
Su	0451	0758	1.7E
	1124	1407	1.5F
	1710	2014	1.6E
	2333		
7		0229	1.7F
M	0545	0856	1.7E
	1219	1502	1.5F
	1805	2111	1.6E
8	0025	0324	1.7F
Tu	0637	0947	1.8E
	1311	1552	1.5F
	1856	2158	1.6E
9	0114	0412	1.7F
W	0724	1034	1.8E
	1359	1641	1.5F
	1944	2245	1.6E
10	0200	0456	1.8F
Th	0808	1117	1.8E
	1442	1724	1.5F
	2027	2325	1.6E
11	0242	0539	1.7F
F	0848	1154	1.8E
	1521	1802	1.5F
	2106		
12		0003	1.6E
Sa	0320	0615	1.7F
	0924	1228	1.8E
	1557	1840	1.6F
	2142		
13		0040	1.6E
Su	0356	0651	1.7F
	0958	1301	1.8E
	1630	1915	1.6F
	2216		
14		0115	1.7E
M	0430	0728	1.7F
	1031	1336	1.8E
	1701	1953	1.6F
	2251		
15		0152	1.7E
Tu	0506	0807	1.7F
	1105	1412	1.9E
	1733	2032	1.7F
	2328		
16		0231	1.8E
W	0545	0850	1.7F
	1143	1451	1.9E
	1809	2112	1.7F
17	0008	0312	1.8E
Th	0628	0931	1.7F
	1224	1534	1.8E
	1849	2155	1.7F
18	0054	0401	1.8E
F	0716	1020	1.6F
	1310	1623	1.8E
	1935	2246	1.7F
19	0145	0453	1.8E
Sa	0812	1113	1.5F
	1402	1714	1.7E
	2027	2339	1.7F
20	0242	0550	1.7E
Su	0914	1209	1.4F
	1500	1813	1.6E
	2126		
21		0038	1.7F
M	0344	0651	1.7E
	1022	1312	1.4F
	1605	1913	1.6E
	2231		
22		0140	1.7F
Tu	0450	0756	1.7E
	1131	1417	1.4F
	1714	2020	1.6E
	2339		
23		0245	1.7F
W	0556	0904	1.7E
	1238	1521	1.5F
	1822	2124	1.6E
24	0045	0346	1.8F
Th	0700	1006	1.8E
	1339	1625	1.6F
	1926	2229	1.7E
25	0147	0448	1.9F
F	0759	1107	1.9E
	1435	1720	1.7F
	2025	2326	1.8E
26	0245	0542	2.0F
Sa	0854	1201	2.0E
	1527	1815	1.8F
	2119		
27		0021	1.9E
Su	0339	0636	2.0F
	0945	1250	2.1E
	1615	1903	1.9F
	2210		
28		0112	2.0E
M	0430	0726	2.0F
	1033	1339	2.1E
	1701	1952	1.9F
	2259		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 305° True E-Ebb, Dir. 140° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0200	2.0E	16		0127	1.9E
Tu	0521	0812	1.9F	W	0444	0740	1.8F
	1120	1424	2.0E		1037	1343	1.9E
	1746	2037	1.9F		1659	2000	1.8F
	2347				2259		
2		0248	2.0E	17		0205	1.9E
W	0610	0900	1.9F	Th	0521	0821	1.7F
	1206	1509	1.9E		1114	1422	1.9E
	1832	2126	1.9F		1733	2041	1.9F
					2339		
3	0035	0335	1.9E	18		0248	1.9E
Th	0701	0949	1.7F	F	0603	0902	1.7F
	1253	1555	1.8E		1155	1503	1.9E
	1918	2213	1.8F		1813	2125	1.9F
4	0124	0426	1.8E	19	0023	0333	1.9E
F	0753	1037	1.6F	Sa	0651	0950	1.6F
	1342	1644	1.7E		1241	1550	1.8E
	2008	2303	1.7F		1900	2213	1.8F
5	0216	0518	1.7E	20	0114	0424	1.8E
Sa	0848	1131	1.5F	Su	0746	1043	1.5F
	1435	1737	1.6E		1334	1644	1.7E
	2100	2356	1.7F		1954	2310	1.7F
6	0310	0613	1.6E	21	0212	0523	1.7E
Su	0946	1227	1.4F	M	0850	1144	1.4F
	1531	1832	1.5E		1436	1745	1.6E
	2156				2059		
7		0053	1.6F	22		0012	1.6F
M	0407	0714	1.6E	Tu	0318	0627	1.7E
	1045	1326	1.3F		1002	1251	1.3F
	1630	1933	1.5E		1547	1852	1.5E
	2253				2212		
8		0150	1.6F	23		0119	1.6F
Tu	0504	0813	1.6E	W	0430	0738	1.6E
	1143	1424	1.4F		1116	1401	1.4F
	1729	2033	1.5E		1703	2004	1.5E
	2350				2328		
9		0245	1.6F	24		0230	1.6F
W	0559	0910	1.6E	Th	0541	0849	1.7E
	1237	1521	1.4F		1224	1511	1.5F
	1824	2124	1.5E		1815	2118	1.6E
10	0043	0337	1.6F	25	0039	0337	1.7F
Th	0650	0959	1.7E	F	0648	0958	1.8E
	1326	1612	1.5F		1325	1612	1.6F
	1915	2216	1.5E		1919	2225	1.7E
11	0132	0426	1.7F	26	0142	0438	1.8F
F	0736	1045	1.8E	Sa	0748	1057	1.9E
	1411	1654	1.5F		1419	1710	1.8F
	2000	2300	1.6E		2016	2322	1.9E
12	0217	0509	1.7F	27	0239	0533	1.9F
Sa	0818	1126	1.8E	Su	0841	1148	2.0E
	1450	1736	1.6F		1508	1759	1.9F
	2040	2339	1.7E		2107		
13	0257	0549	1.7F	28		0012	2.0E
Su	0856	1159	1.8E	M	0330	0624	2.0F
	1525	1812	1.7F		0930	1235	2.1E
	2116				1554	1846	2.0F
					2154		
14		0015	1.7E	29		0059	2.1E
M	0334	0626	1.7F	Tu	0418	0707	2.0F
	0931	1233	1.9E		1014	1316	2.0E
	1557	1848	1.7F		1636	1929	2.0F
	2150				2239		
15		0050	1.8E	30		0142	2.1E
Tu	0409	0703	1.8F	W	0504	0753	1.9F
	1004	1308	1.9E		1057	1357	2.0E
	1628	1925	1.8F		1717	2012	2.0F
	2224				2321		
				31		0224	2.0E
				Th	0549	0834	1.8F
					1139	1438	1.9E
					1758	2053	1.9F

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0004	0306	1.9E	16		0221	2.0E
F	0634	0919	1.7F	Sa	0543	0840	1.7F
	1221	1521	1.8E		1130	1437	1.8E
	1840	2138	1.8F		1744	2059	1.9F
					2359		
2	0048	0351	1.8E	17		0310	2.0E
Sa	0721	1004	1.5F	Su	0632	0929	1.6F
	1306	1607	1.6E		1219	1526	1.7E
	1926	2224	1.7F		1833	2149	1.8F
3	0134	0438	1.7E	18	0051	0401	1.9E
Su	0812	1055	1.4F	M	0730	1026	1.5F
	1356	1657	1.5E		1317	1623	1.6E
	2016	2316	1.6F		1933	2246	1.7F
4	0225	0532	1.6E	19	0151	0503	1.8E
M	0906	1148	1.3F	Tu	0836	1128	1.4F
	1451	1750	1.4E		1424	1728	1.5E
	2112				2045	2353	1.6F
5		0009	1.5F	20	0300	0612	1.7E
Tu	0321	0628	1.6E	W	0949	1238	1.4F
	1004	1247	1.3F		1540	1842	1.4E
	1551	1848	1.4E		2204		
	2213						
6		0107	1.5F	21		0105	1.5F
W	0419	0727	1.6E	Th	0415	0725	1.7E
	1102	1345	1.3F		1101	1349	1.4F
	1652	1951	1.4E		1658	2000	1.5E
	2313				2322		
7		0207	1.5F	22		0217	1.6F
Th	0516	0826	1.6E	F	0527	0838	1.7E
	1157	1442	1.4F		1207	1459	1.6F
	1750	2049	1.4E		1807	2111	1.6E
8	0010	0302	1.5F	23	0032	0324	1.7F
F	0610	0919	1.7E	Sa	0633	0943	1.8E
	1247	1534	1.5F		1306	1600	1.8F
	1842	2144	1.5E		1909	2215	1.8E
9	0102	0353	1.6F	24	0133	0422	1.8F
Sa	0659	1006	1.7E	Su	0731	1040	1.9E
	1332	1621	1.6F		1357	1651	1.9F
	1929	2229	1.6E		2002	2310	2.0E
10	0149	0438	1.6F	25	0227	0517	1.9F
Su	0744	1048	1.8E	M	0823	1130	2.0E
	1412	1702	1.7F		1444	1740	2.0F
	2009	2309	1.7E		2050	2359	2.1E
11	0231	0519	1.7F	26	0317	0604	1.9F
M	0823	1125	1.8E	Tu	0909	1213	2.0E
	1448	1739	1.8F		1528	1823	2.1F
	2046	2346	1.8E		2134		
12	0309	0559	1.7F	27		0040	2.1E
Tu	0859	1201	1.9E	W	0402	0649	1.9F
	1520	1817	1.9F		0952	1254	1.9E
	2121				1608	1904	2.1F
					2215		
13		0022	1.9E	28		0121	2.1E
W	0345	0637	1.8F	Th	0445	0728	1.8F
	0934	1237	1.9E		1032	1331	1.9E
	1552	1854	1.9F		1646	1942	2.0F
	2155				2254		
14		0101	2.0E	29		0159	2.0E
Th	0421	0714	1.8F	F	0526	0808	1.7F
	1009	1312	1.9E		1110	1409	1.7E
	1624	1931	2.0F		1724	2024	1.9F
	2232				2332		
15		0138	2.0E	30		0237	1.9E
F	0500	0755	1.7F	Sa	0608	0849	1.6F
	1047	1353	1.9E		1150	1448	1.6E
	1701	2012	2.0F		1803	2103	1.8F
	2313						

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 305° True E-Ebb, Dir. 140° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 Su	0012 0651 1233 1846	0316 0932 1529 2148	1.8E 1.5F 1.5E 1.7F	16 M	 0621 1206 1818	0254 0913 1509 2132	2.0E 1.6F 1.7E 1.8F
2 M	0056 0737 1321 1935	0403 1020 1618 2236	1.7E 1.4F 1.4E 1.6F	17 Tu	0035 0721 1309 1923	0348 1010 1611 2233	1.9E 1.5F 1.5E 1.7F
3 Tu	0143 0828 1415 2030	0452 1113 1712 2330	1.7E 1.3F 1.4E 1.5F	18 W	0138 0827 1420 2039	0450 1115 1720 2341	1.8E 1.5F 1.5E 1.6F
4 W	0235 0923 1514 2131	0547 1208 1809	1.6E 1.3F 1.3E	19 Th	0247 0937 1536 2158	0600 1225 1835	1.7E 1.5F 1.5E
5 Th	 0332 1019 1615 2234	0028 0643 1304 1911	1.4F 1.6E 1.4F 1.4E	20 F	 0400 1044 1649 2313	0052 0712 1335 1950	1.5F 1.7E 1.6F 1.6E
6 F	 0430 1113 1712 2333	0125 0741 1401 2010	1.4F 1.6E 1.5F 1.4E	21 Sa	 0509 1145 1754	0202 0821 1440 2101	1.6F 1.8E 1.8F 1.7E
7 Sa	 0526 1203 1805	0222 0834 1455 2104	1.5F 1.7E 1.6F 1.6E	22 Su	0019 0612 1241 1851	0308 0923 1537 2200	1.7F 1.9E 1.9F 1.9E
8 Su	0027 0617 1248 1852	0315 0922 1542 2153	1.5F 1.7E 1.7F 1.7E	23 M	0118 0708 1331 1943	0405 1016 1629 2251	1.7F 1.9E 2.0F 2.0E
9 M	0115 0703 1329 1934	0402 1008 1625 2234	1.6F 1.8E 1.8F 1.8E	24 Tu	0211 0759 1417 2029	0456 1105 1716 2339	1.8F 1.9E 2.1F 2.1E
10 Tu	0200 0745 1406 2013	0445 1048 1705 2314	1.6F 1.8E 1.9F 1.9E	25 W	0259 0845 1459 2111	0542 1148 1757	1.8F 1.9E 2.1F
11 W	0241 0825 1441 2050	0528 1127 1744 2355	1.7F 1.9E 2.0F 2.0E	26 Th	0343 0927 1539 2150	0020 0625 1227 1838	2.1E 1.7F 1.8E 2.0F
12 Th	0321 0903 1516 2128	0608 1205 1823	1.7F 1.9E 2.0F	27 F	0425 1006 1616 2227	0057 0703 1302 1914	2.0E 1.6F 1.7E 1.9F
13 F	0400 0942 1553 2208	0034 0650 1246 1905	2.1E 1.7F 1.9E 2.0F	28 Sa	0504 1043 1652 2303	0133 0742 1338 1952	1.9E 1.5F 1.6E 1.8F
14 Sa	0443 1025 1635 2252	0117 0734 1329 1950	2.1E 1.7F 1.8E 2.0F	29 Su	0543 1122 1729 2339	0208 0822 1416 2032	1.9E 1.5F 1.5E 1.7F
15 Su	0529 1112 1722 2340	0203 0821 1416 2037	2.1E 1.6F 1.8E 1.9F	30 M	0623 1203 1811	0247 0903 1457 2114	1.8E 1.4F 1.4E 1.6F
				31 Tu	0019 0705 1250 1858	0328 0949 1546 2201	1.8E 1.4F 1.4E 1.5F

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 W	0104 0752 1342 1951	0415 1038 1637 2252	1.7E 1.4F 1.4E 1.5F	16 Th	0126 0815 1414 2032	0439 1105 1711 2327	1.9E 1.6F 1.5E 1.6F
2 Th	0153 0842 1437 2050	0505 1132 1732 2347	1.7E 1.4F 1.4E 1.4F	17 F	0232 0918 1524 2146	0543 1209 1822	1.8E 1.7F 1.6E
3 F	0246 0933 1535 2151	0600 1225 1829	1.7E 1.5F 1.4E	18 Sa	 0340 1019 1631 2255	0037 0651 1314 1935	1.6F 1.8E 1.8F 1.7E
4 Sa	 0342 1025 1630 2251	0044 0653 1318 1927	1.4F 1.7E 1.6F 1.5E	19 Su	 0445 1117 1732 2359	0140 0757 1416 2042	1.6F 1.8E 1.9F 1.8E
5 Su	0437 1114 1723 2347	0140 0747 1411 2020	1.4F 1.7E 1.7F 1.6E	20 M	 0546 1212 1828	0245 0856 1511 2138	1.6F 1.9E 2.0F 1.9E
6 M	 0530 1200 1812	0233 0837 1459 2111	1.5F 1.7E 1.8F 1.7E	21 Tu	0057 0641 1302 1918	0340 0947 1604 2229	1.6F 1.9E 2.0F 2.0E
7 Tu	0039 0619 1244 1857	0323 0923 1546 2159	1.5F 1.8E 1.9F 1.8E	22 W	0150 0732 1348 2005	0432 1038 1647 2316	1.6F 1.8E 2.1F 2.0E
8 W	0127 0706 1325 1940	0411 1010 1629 2245	1.6F 1.8E 2.0F 2.0E	23 Th	0238 0819 1431 2047	0519 1122 1733 2357	1.6F 1.8E 2.0F 2.0E
9 Th	0213 0750 1405 2022	0457 1053 1714 2329	1.6F 1.8E 2.0F 2.0E	24 F	0323 0902 1511 2125	0602 1200 1809	1.6F 1.7E 1.9F
10 F	0257 0835 1446 2104	0543 1136 1757	1.6F 1.8E 2.1F	25 Sa	 0404 0942 1549 2201	0034 0641 1238 1850	2.0E 1.5F 1.6E 1.9F
11 Sa	0342 0920 1530 2149	0012 0629 1223 1842	2.1E 1.6F 1.8E 2.1F	26 Su	0442 1020 1625 2236	0107 0718 1314 1926	1.9E 1.5F 1.5E 1.8F
12 Su	0429 1009 1617 2237	0059 0716 1310 1933	2.1E 1.6F 1.8E 2.0F	27 M	0519 1058 1702 2311	0142 0759 1351 2004	1.8E 1.4F 1.5E 1.7F
13 M	0519 1102 1710 2328	0146 0807 1402 2024	2.1E 1.6F 1.7E 1.9F	28 Tu	0556 1138 1741 2348	0218 0837 1432 2045	1.8E 1.4F 1.4E 1.6F
14 Tu	0613 1200 1810	0241 0900 1459 2120	2.0E 1.6F 1.6E 1.8F	29 W	0634 1221 1825	0300 0919 1515 2132	1.8E 1.4F 1.4E 1.6F
15 W	0025 0712 1305 1918	0337 1001 1602 2221	1.9E 1.6F 1.6E 1.7F	30 Th	0029 0716 1308 1915	0341 1006 1604 2217	1.8E 1.5F 1.4E 1.5F

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 305° True E-Ebb, Dir. 140° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0114	0430	1.8E	16	0212	0521	1.9E
F	0800	1055	1.5F	Sa	0852	1148	1.8F
	1359	1654	1.4E		1503	1803	1.7E
	2009	2309	1.5F		2125		
2	0203	0517	1.8E	17		0012	1.6F
Sa	0847	1144	1.6F	Su	0313	0625	1.8E
	1452	1749	1.5E		0950	1248	1.8F
	2107				1605	1909	1.7E
					2231		
3		0002	1.4F	18		0113	1.5F
Su	0255	0610	1.7E	M	0415	0726	1.8E
	0935	1236	1.7F		1046	1345	1.9F
	1546	1844	1.5E		1704	2014	1.8E
	2207				2334		
4		0057	1.4F	19		0213	1.5F
M	0348	0700	1.7E	Tu	0515	0823	1.8E
	1024	1329	1.7F		1140	1442	1.9F
	1639	1939	1.6E		1800	2111	1.9E
	2305						
5		0153	1.4F	20	0032	0312	1.5F
Tu	0443	0753	1.7E	W	0611	0921	1.7E
	1112	1420	1.8F		1231	1533	2.0F
	1731	2032	1.7E		1851	2204	1.9E
6	0002	0246	1.4F	21	0126	0403	1.5F
W	0536	0844	1.7E	Th	0704	1012	1.7E
	1201	1511	1.9F		1320	1621	2.0F
	1821	2126	1.8E		1938	2250	1.9E
7	0056	0337	1.5F	22	0215	0454	1.5F
Th	0629	0933	1.7E	F	0753	1053	1.6E
	1248	1558	2.0F		1405	1704	1.9F
	1910	2215	1.9E		2022	2335	1.9E
8	0148	0428	1.5F	23	0300	0539	1.5F
F	0721	1024	1.7E	Sa	0838	1136	1.6E
	1336	1647	2.0F		1447	1745	1.9F
	1958	2304	2.0E		2101		
9	0238	0519	1.6F	24		0010	1.9E
Sa	0812	1114	1.8E	Su	0341	0618	1.5F
	1424	1736	2.1F		0919	1215	1.5E
	2046	2353	2.1E		1525	1824	1.8F
					2137		
10	0328	0610	1.6F	25		0045	1.9E
Su	0905	1205	1.8E	M	0419	0654	1.4F
	1515	1826	2.0F		0957	1251	1.5E
	2135				1602	1902	1.7F
					2211		
11		0044	2.1E	26	0120	0120	1.9E
M	0418	0701	1.6F	Tu	0454	0733	1.5F
	0959	1258	1.7E		1034	1326	1.5E
	1608	1919	2.0F		1638	1939	1.7F
	2226				2244		
12		0136	2.1E	27		0152	1.9E
Tu	0509	0755	1.7F	W	0528	0811	1.5F
	1055	1353	1.7E		1112	1405	1.5E
	1705	2012	1.9F		1715	2018	1.7F
	2318				2319		
13		0227	2.1E	28		0229	1.9E
W	0603	0850	1.7F	Th	0602	0850	1.5F
	1154	1450	1.7E		1151	1447	1.5E
	1805	2107	1.8F		1756	2101	1.6F
					2356		
14	0013	0325	2.0E	29		0310	1.9E
Th	0658	0948	1.7F	F	0638	0933	1.6F
	1256	1551	1.6E		1233	1530	1.5E
	1910	2207	1.7F		1840	2145	1.6F
15	0111	0423	1.9E	30	0037	0351	1.9E
F	0754	1047	1.7F	Sa	0717	1018	1.6F
	1359	1656	1.6E		1319	1617	1.6E
	2017	2309	1.6F		1930	2230	1.5F
				31	0121	0436	1.8E
				Su	0800	1103	1.7F
					1409	1708	1.6E
					2024	2321	1.5F

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0210	0524	1.8E	16		0043	1.4F
M	0846	1155	1.7F	Tu	0341	0647	1.7E
	1502	1803	1.6E		1011	1312	1.8F
	2123				1631	1937	1.7E
					2304		
2		0016	1.4F	17		0142	1.4F
Tu	0303	0619	1.7E	W	0441	0749	1.6E
	0936	1248	1.8F		1107	1408	1.8F
	1557	1859	1.6E		1728	2039	1.7E
	2225						
3		0113	1.4F	18	0003	0241	1.4F
W	0400	0712	1.7E	Th	0540	0846	1.6E
	1030	1341	1.8F		1201	1503	1.8F
	1654	1958	1.7E		1821	2134	1.8E
	2328						
4		0211	1.4F	19	0058	0334	1.4F
Th	0459	0809	1.7E	F	0635	0941	1.6E
	1125	1438	1.9F		1252	1552	1.8F
	1750	2057	1.8E		1910	2225	1.8E
5	0029	0310	1.4F	20	0148	0428	1.4F
F	0600	0907	1.7E	Sa	0727	1029	1.6E
	1221	1533	1.9F		1339	1641	1.8F
	1846	2153	1.9E		1955	2306	1.9E
6	0127	0405	1.4F	21	0233	0513	1.5F
Sa	0700	1004	1.7E	Su	0813	1114	1.6E
	1317	1629	2.0F		1423	1722	1.8F
	1941	2248	2.0E		2035	2345	1.9E
7	0223	0503	1.5F	22	0314	0552	1.5F
Su	0759	1059	1.7E	M	0855	1151	1.6E
	1412	1722	2.0F		1503	1801	1.8F
	2033	2341	2.0E		2112		
8	0315	0557	1.6F	23		0020	1.9E
M	0856	1156	1.8E	Tu	0351	0631	1.5F
	1508	1815	2.0F		0933	1227	1.6E
	2125				1541	1838	1.8F
					2145		
9		0034	2.1E	24		0052	1.9E
Tu	0406	0649	1.7F	W	0424	0706	1.6F
	0951	1249	1.8E		1009	1302	1.6E
	1603	1907	2.0F		1616	1913	1.7F
	2216				2217		
10		0124	2.1E	25		0125	1.9E
W	0456	0742	1.8F	Th	0455	0742	1.6F
	1046	1345	1.8E		1043	1339	1.6E
	1659	1958	2.0F		1651	1951	1.7F
	2306				2249		
11		0215	2.1E	26		0158	1.9E
Th	0545	0834	1.8F	F	0526	0819	1.7F
	1142	1437	1.8E		1119	1416	1.6E
	1756	2053	1.9F		1727	2029	1.7F
	2357				2324		
12		0306	2.1E	27		0236	1.9E
F	0636	0927	1.9F	Sa	0558	0858	1.7F
	1238	1535	1.8E		1158	1457	1.7E
	1854	2148	1.8F		1808	2112	1.6F
13	0050	0401	2.0E	28	0001	0313	1.9E
Sa	0727	1023	1.9F	Su	0634	0938	1.8F
	1335	1633	1.7E		1240	1542	1.7E
	1955	2242	1.6F		1854	2157	1.6F
14	0145	0455	1.9E	29	0044	0358	1.9E
Su	0821	1118	1.9F	M	0715	1027	1.8F
	1434	1733	1.7E		1328	1631	1.7E
	2058	2340	1.5F		1946	2244	1.5F
15	0242	0551	1.8E	30	0131	0449	1.8E
M	0916	1215	1.8F	Tu	0802	1116	1.8F
	1533	1836	1.7E		1421	1727	1.6E
	2201				2046	2341	1.4F
				31	0225	0540	1.7E
				W	0856	1209	1.7F
					1520	1824	1.6E
					2152		

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 305° True E-Ebb, Dir. 140° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0041	1.3F
Th	0326	0641	1.6E
	0955	1310	1.7F
	1622	1929	1.6E
	2301		
2		0144	1.3F
F	0433	0743	1.6E
	1059	1412	1.8F
	1727	2033	1.7E
3	0009	0249	1.3F
Sa	0542	0849	1.6E
	1205	1515	1.8F
	1829	2136	1.8E
4	0111	0351	1.4F
Su	0648	0953	1.6E
	1308	1614	1.9F
	1928	2235	1.9E
5	0208	0451	1.6F
M	0751	1051	1.7E
	1407	1710	2.0F
	2022	2330	2.1E
6	0300	0545	1.7F
Tu	0848	1147	1.8E
	1503	1803	2.0F
	2114		
7		0022	2.1E
W	0349	0637	1.9F
	0941	1240	1.9E
	1557	1855	2.0F
	2202		
8		0110	2.2E
Th	0436	0724	1.9F
	1033	1331	1.9E
	1649	1944	2.0F
	2250		
9		0156	2.1E
F	0522	0812	2.0F
	1123	1421	1.9E
	1741	2031	1.9F
	2336		
10		0243	2.1E
Sa	0608	0903	2.0F
	1213	1512	1.9E
	1833	2122	1.8F
11	0024	0330	2.0E
Su	0656	0952	1.9F
	1305	1604	1.8E
	1928	2213	1.6F
12	0114	0421	1.8E
M	0746	1043	1.8F
	1359	1659	1.7E
	2027	2308	1.5F
13	0207	0512	1.7E
Tu	0839	1136	1.8F
	1456	1758	1.6E
	2128		
14		0007	1.3F
W	0305	0611	1.6E
	0935	1235	1.7F
	1554	1859	1.6E
	2230		
15		0106	1.3F
Th	0406	0712	1.5E
	1033	1331	1.7F
	1652	2000	1.6E
	2330		
16		0209	1.3F
F	0507	0813	1.5E
	1130	1430	1.7F
	1747	2059	1.7E
17	0025	0304	1.3F
Sa	0606	0909	1.5E
	1224	1521	1.7F
	1838	2150	1.8E
18	0116	0357	1.4F
Su	0659	1000	1.5E
	1313	1609	1.8F
	1924	2235	1.8E
19	0201	0444	1.5F
M	0746	1045	1.6E
	1359	1654	1.8F
	2006	2314	1.9E
20	0241	0523	1.6F
Tu	0828	1126	1.6E
	1440	1733	1.8F
	2043	2349	1.9E
21	0317	0600	1.7F
W	0905	1202	1.7E
	1517	1811	1.8F
	2117		
22		0021	1.9E
Th	0349	0636	1.7F
	0939	1235	1.7E
	1552	1847	1.8F
	2148		
23		0055	1.9E
F	0419	0710	1.8F
	1012	1310	1.8E
	1625	1923	1.8F
	2219		
24		0126	2.0E
Sa	0448	0747	1.8F
	1046	1347	1.8E
	1701	1958	1.7F
	2253		
25		0203	1.9E
Su	0519	0824	1.8F
	1123	1424	1.8E
	1739	2041	1.7F
	2329		
26		0240	1.9E
M	0555	0905	1.8F
	1205	1510	1.8E
	1824	2124	1.6F
27	0011	0325	1.8E
Tu	0637	0951	1.8F
	1253	1557	1.7E
	1916	2216	1.5F
28	0100	0414	1.7E
W	0726	1043	1.8F
	1347	1656	1.7E
	2017	2311	1.3F
29	0157	0510	1.6E
Th	0825	1143	1.7F
	1450	1757	1.6E
	2127		
30		0016	1.3F
F	0303	0617	1.5E
	0932	1246	1.6F
	1559	1905	1.6E
	2242		

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0124	1.3F
Sa	0418	0726	1.5E
	1046	1353	1.7F
	1709	2016	1.7E
	2352		
2		0234	1.4F
Su	0533	0838	1.6E
	1158	1502	1.8F
	1815	2124	1.8E
3	0055	0337	1.5F
M	0642	0944	1.7E
	1303	1603	1.9F
	1915	2222	1.9E
4	0151	0438	1.7F
Tu	0742	1045	1.8E
	1402	1700	2.0F
	2010	2317	2.1E
5	0241	0530	1.9F
W	0837	1139	2.0E
	1456	1751	2.0F
	2059		
6		0004	2.1E
Th	0328	0619	2.0F
	0927	1228	2.0E
	1546	1837	2.0F
	2145		
7		0051	2.1E
F	0412	0704	2.1F
	1014	1315	2.0E
	1634	1923	2.0F
	2229		
8		0135	2.1E
Sa	0455	0749	2.0F
	1100	1400	2.0E
	1722	2009	1.8F
	2312		
9		0215	2.0E
Su	0538	0834	2.0F
	1145	1443	1.9E
	1810	2056	1.7F
	2356		
10		0301	1.9E
M	0622	0920	1.9F
	1232	1532	1.8E
	1900	2141	1.5F
11	0042	0347	1.7E
Tu	0709	1006	1.8F
	1322	1623	1.7E
	1954	2233	1.4F
12	0133	0436	1.6E
W	0800	1058	1.7F
	1415	1719	1.6E
	2051	2331	1.3F
13	0229	0532	1.5E
Th	0856	1156	1.6F
	1512	1816	1.5E
	2152		
14		0029	1.2F
F	0331	0633	1.4E
	0956	1252	1.5F
	1611	1919	1.5E
	2251		
15		0130	1.3F
Sa	0433	0735	1.4E
	1056	1353	1.6F
	1707	2018	1.6E
	2347		
16		0229	1.4F
Su	0533	0836	1.5E
	1152	1447	1.6F
	1800	2110	1.7E
17	0037	0320	1.5F
M	0626	0927	1.6E
	1244	1536	1.7F
	1848	2159	1.8E
18	0122	0406	1.6F
Tu	0713	1014	1.7E
	1330	1625	1.7F
	1931	2238	1.9E
19	0202	0447	1.7F
W	0755	1054	1.7E
	1412	1704	1.8F
	2010	2313	1.9E
20	0238	0528	1.8F
Th	0833	1130	1.8E
	1450	1742	1.8F
	2045	2349	1.9E
21	0311	0603	1.8F
F	0907	1206	1.9E
	1526	1817	1.8F
	2117		
22		0022	1.9E
Sa	0341	0637	1.9F
	0941	1242	1.9E
	1600	1853	1.8F
	2149		
23		0055	1.9E
Su	0411	0714	1.9F
	1015	1319	1.9E
	1636	1932	1.7F
	2224		
24		0130	1.9E
M	0444	0755	1.9F
	1053	1358	1.9E
	1716	2013	1.7F
	2302		
25		0211	1.9E
Tu	0522	0836	1.9F
	1136	1443	1.9E
	1801	2100	1.6F
	2346		
26		0257	1.8E
W	0607	0925	1.8F
	1225	1534	1.8E
	1855	2151	1.4F
27	0038	0348	1.7E
Th	0701	1017	1.7F
	1322	1629	1.7E
	1959	2252	1.3F
28	0140	0451	1.5E
F	0806	1122	1.6F
	1428	1737	1.6E
	2111		
29		0000	1.3F
Sa	0253	0600	1.5E
	0921	1231	1.6F
	1541	1850	1.6E
	2226		
30		0111	1.3F
Su	0412	0716	1.5E
	1039	1341	1.6F
	1654	2001	1.7E
	2335		
31		0220	1.5F
M	0526	0830	1.6E
	1152	1449	1.7F
	1800	2110	1.8E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

F-Flood, Dir. 305° True E-Ebb, Dir. 140° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0036	0324	1.7F	16	0038	0327	1.7F
Tu	0632	0937	1.8E	W	0635	0936	1.7E
	1256	1550	1.8F		1257	1546	1.7F
	1900	2209	2.0E		1851	2155	1.8E
2	0130	0422	1.9F	17	0119	0412	1.8F
W	0730	1035	1.9E	Th	0718	1019	1.8E
	1352	1646	1.9F		1341	1629	1.7F
	1953	2300	2.1E		1932	2235	1.9E
3	0219	0513	2.0F	18	0157	0451	1.9F
Th	0821	1126	2.1E	F	0758	1057	1.9E
	1444	1735	2.0F		1421	1710	1.7F
	2041	2349	2.1E		2010	2312	1.9E
4	0305	0558	2.1F	19	0231	0529	1.9F
F	0909	1213	2.1E	Sa	0835	1138	1.9E
	1532	1820	1.9F		1459	1749	1.7F
	2126				2046	2348	1.9E
5		0031	2.1E	20	0304	0607	2.0F
Sa	0347	0641	2.1F	Su	0911	1213	2.0E
	0953	1256	2.1E		1537	1828	1.7F
	1618	1903	1.9F		2121		
	2207						
6		0110	2.0E	21		0025	1.9E
Su	0428	0725	2.0F	M	0338	0645	2.0F
	1036	1339	2.0E		0949	1254	2.0E
	1702	1946	1.7F		1616	1909	1.7F
	2248				2159		
7		0149	1.9E	22		0106	1.9E
M	0508	0808	1.9F	Tu	0415	0725	2.0F
	1117	1417	1.9E		1029	1337	2.0E
	1746	2029	1.6F		1658	1952	1.6F
	2329				2241		
8		0231	1.7E	23		0149	1.8E
Tu	0550	0847	1.8F	W	0458	0812	1.9F
	1200	1503	1.8E		1115	1423	1.9E
	1832	2112	1.5F		1746	2043	1.6F
					2330		
9	0012	0312	1.6E	24		0240	1.7E
W	0634	0935	1.7F	Th	0548	0903	1.8F
	1245	1548	1.7E		1207	1516	1.8E
	1921	2203	1.4F		1842	2135	1.5F
10	0100	0401	1.5E	25	0027	0335	1.6E
Th	0723	1024	1.6F	F	0647	1002	1.7F
	1334	1639	1.6E		1306	1617	1.7E
	2014	2255	1.3F		1947	2238	1.4F
11	0154	0455	1.4E	26	0133	0439	1.5E
F	0818	1115	1.5F	Sa	0757	1105	1.6F
	1428	1734	1.5E		1413	1722	1.7E
	2110	2350	1.3F		2057	2345	1.4F
12	0254	0554	1.4E	27	0247	0550	1.5E
Sa	0917	1213	1.5F	Su	0915	1215	1.6F
	1525	1832	1.5E		1525	1834	1.6E
	2207				2207		
13		0049	1.3F	28		0055	1.5F
Su	0355	0654	1.4E	M	0403	0706	1.5E
	1018	1313	1.5F		1031	1325	1.6F
	1622	1929	1.6E		1636	1944	1.7E
	2302				2313		
14		0145	1.4F	29		0203	1.6F
M	0454	0753	1.5E	Tu	0513	0820	1.7E
	1115	1408	1.5F		1140	1432	1.7F
	1716	2023	1.7E		1741	2049	1.8E
	2352						
15		0239	1.5F	30	0012	0304	1.8F
Tu	0547	0849	1.6E	W	0616	0923	1.9E
	1208	1459	1.6F		1243	1534	1.8F
	1806	2112	1.8E		1840	2147	1.9E

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0106	0403	2.0F	16	0033	0331	1.8F
Th	0712	1020	2.0E	F	0639	0942	1.8E
	1339	1629	1.8F		1306	1554	1.6F
	1933	2240	2.0E		1852	2155	1.8E
2	0155	0451	2.0F	17	0114	0414	1.9F
F	0803	1110	2.1E	Sa	0722	1025	1.9E
	1430	1716	1.9F		1351	1637	1.6F
	2021	2325	2.0E		1935	2238	1.8E
3	0240	0538	2.1F	18	0154	0457	1.9F
Sa	0849	1155	2.1E	Su	0804	1107	1.9E
	1517	1803	1.8F		1434	1720	1.7F
	2105				2016	2319	1.8E
4		0006	1.9E	19	0233	0538	2.0F
Su	0323	0619	2.0F	M	0845	1149	2.0E
	0932	1238	2.0E		1516	1804	1.7F
	1601	1844	1.7F		2058		
	2146						
5		0047	1.8E	20		0002	1.8E
M	0403	0700	2.0F	Tu	0313	0622	2.0F
	1012	1317	1.9E		0927	1234	2.0E
	1643	1924	1.6F		1600	1849	1.7F
	2226				2142		
6		0125	1.7E	21		0045	1.8E
Tu	0442	0739	1.9F	W	0357	0708	2.0F
	1051	1355	1.8E		1012	1319	2.0E
	1724	2005	1.5F		1646	1938	1.6F
	2305				2229		
7		0204	1.6E	22		0134	1.8E
W	0521	0821	1.8F	Th	0445	0757	1.9F
	1130	1434	1.8E		1101	1410	2.0E
	1806	2047	1.4F		1737	2027	1.6F
	2346				2322		
8		0243	1.5E	23		0228	1.7E
Th	0603	0901	1.7F	F	0540	0850	1.8F
	1211	1516	1.7E		1155	1503	1.9E
	1849	2132	1.4F		1833	2122	1.6F
9	0031	0329	1.5E	24	0021	0325	1.7E
F	0648	0948	1.6F	Sa	0642	0948	1.7F
	1256	1601	1.6E		1254	1601	1.8E
	1936	2220	1.4F		1934	2224	1.6F
10	0120	0420	1.4E	25	0127	0430	1.6E
Sa	0739	1039	1.5F	Su	0751	1051	1.7F
	1345	1652	1.6E		1358	1706	1.8E
	2026	2312	1.4F		2038	2329	1.6F
11	0215	0515	1.4E	26	0237	0540	1.6E
Su	0836	1132	1.5F	M	0904	1157	1.6F
	1437	1747	1.6E		1506	1813	1.7E
	2118				2143		
12		0006	1.4F	27		0035	1.6F
M	0312	0612	1.4E	Tu	0347	0650	1.7E
	0934	1227	1.5F		1015	1305	1.6F
	1532	1840	1.6E		1613	1921	1.8E
	2211				2246		
13		0101	1.5F	28		0140	1.7F
Tu	0408	0708	1.5E	W	0453	0801	1.8E
	1032	1323	1.5F		1123	1412	1.6F
	1626	1935	1.7E		1717	2023	1.8E
	2301				2345		
14		0154	1.6F	29		0240	1.9F
W	0502	0801	1.6E	Th	0555	0904	1.9E
	1127	1417	1.5F		1224	1511	1.7F
	1718	2023	1.7E		1816	2126	1.8E
	2349						
15		0242	1.7F	30	0040	0337	1.9F
Th	0552	0854	1.7E	F	0651	1000	2.0E
	1219	1507	1.6F		1321	1606	1.7F
	1807	2111	1.7E		1910	2219	1.9E
				31	0130	0428	2.0F
				Sa	0742	1051	2.0E
					1412	1700	1.7F
					2000	2304	1.8E

Time meridian 75° W. 0000 is midnight. 1200 is noon.

CHESAPEAKE BAY ENTRANCE, VIRGINIA, 1983

F-Flood, Dir. 305° True E-Ebb, Dir. 125° True

JANUARY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 Sa	0002	0355	2.0E
	0717	1015	1.7F
	1332	1648	1.7E
	2006	2227	1.0F
2 Su	0056	0449	1.9E
	0811	1107	1.6F
	1422	1741	1.6E
	2100	2322	0.9F
3 M	0153	0545	1.8E
	0907	1200	1.4F
	1512	1836	1.5E
	2156		
4 Tu		0019	0.9F
	0254	0645	1.6E
	1007	1255	1.2F
	1602	1932	1.5E
	2255		
5 W		0121	0.8F
	0400	0747	1.5E
	1110	1351	1.0F
	1652	2029	1.4E
	2355		
6 Th		0225	0.8F
	0511	0854	1.3E
	1217	1452	0.8F
	1742	2127	1.4E
7 F	0055	0333	0.8F
	0626	1002	1.2E
	1326	1554	0.7F
	1833	2225	1.4E
8 Sa	0153	0436	0.8F
	0737	1105	1.2E
	1433	1652	0.6F
	1922	2320	1.4E
9 Su	0247	0537	0.9F
	0842	1206	1.2E
	1533	1746	0.5F
	2008		
10 M		0008	1.4E
	0336	0627	0.9F
	0938	1257	1.2E
	1625	1834	0.5F
	2052		
11 Tu		0053	1.4E
	0420	0716	1.0F
	1026	1345	1.2E
	1710	1915	0.5F
	2132		
12 W		0138	1.4E
	0501	0755	1.0F
	1108	1424	1.2E
	1750	1954	0.5F
	2209		
13 Th		0217	1.5E
	0540	0832	1.0F
	1145	1503	1.2E
	1825	2030	0.5F
	2245		
14 F		0253	1.5E
	0616	0905	1.1F
	1218	1540	1.2E
	1859	2105	0.6F
	2320		
15 Sa		0329	1.5E
	0653	0939	1.1F
	1250	1615	1.2E
	1933	2140	0.6F
	2356		
16 Su		0404	1.4E
	0729	1014	1.0F
	1320	1646	1.2E
	2007	2216	0.6F
17 M	0033	0438	1.4E
	0807	1049	1.0F
	1351	1721	1.2E
	2043	2253	0.6F
18 Tu	0113	0515	1.4E
	0847	1126	1.0F
	1422	1759	1.1E
	2121	2334	0.7F
19 W	0158	0559	1.3E
	0931	1207	0.9F
	1456	1836	1.1E
	2204		
20 Th		0023	0.7F
	0249	0645	1.2E
	1020	1251	0.8F
	1533	1921	1.1E
	2251		
21 F		0116	0.7F
	0348	0741	1.2E
	1115	1340	0.7F
	1615	2009	1.2E
	2344		
22 Sa		0213	0.8F
	0457	0848	1.1E
	1217	1435	0.6F
	1704	2108	1.3E
23 Su	0042	0317	0.8F
	0614	0956	1.1E
	1323	1536	0.6F
	1759	2209	1.4E
24 M	0141	0426	1.0F
	0732	1105	1.2E
	1428	1642	0.6F
	1900	2310	1.5E
25 Tu	0239	0529	1.2F
	0844	1209	1.3E
	1530	1743	0.7F
	2003		
26 W	0335	0009	1.7E
	0948	0631	1.4F
	1626	1309	1.4E
	2105	1843	0.8F
27 Th	0429	0108	1.8E
	1045	0729	1.5F
	1718	1402	1.6E
	2205	1939	0.9F
28 F	0522	0201	2.0E
	1137	0820	1.6F
	1808	1453	1.7E
	2302	2032	1.0F
29 Sa	0614	0254	2.1E
	1226	0911	1.7F
	1856	1542	1.7E
	2358	2124	1.1F
30 Su	0706	0345	2.1E
	1312	1001	1.6F
	1944	1631	1.7E
		2214	1.1F
31 M	0052	0437	2.0E
	0758	1049	1.5F
	1357	1718	1.7E
	2033	2304	1.1F

FEBRUARY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 Tu	0147	0529	1.9E
	0850	1138	1.3F
	1440	1804	1.6E
	2124	2355	1.0F
2 W	0243	0623	1.7E
	0945	1226	1.1F
	1522	1856	1.5E
	2217		
3 Th		0049	1.0F
	0341	0721	1.4E
	1043	1317	0.9F
	1604	1949	1.4E
	2313		
4 F		0150	0.9F
	0444	0822	1.3E
	1147	1411	0.7F
	1648	2045	1.3E
5 Sa	0013	0252	0.8F
	0553	0927	1.1E
	1256	1507	0.5F
	1734	2141	1.2E
6 Su	0114	0357	0.7F
	0705	1036	1.0E
	1406	1609	0.4F
	1825	2242	1.2E
7 M	0214	0503	0.7F
	0813	1136	1.0E
	1512	1714	0.3F
	1921	2339	1.3E
8 Tu	0309	0602	0.8F
	0912	1231	1.0E
	1606	1809	0.4F
	2016		
9 W		0028	1.3E
	0358	0651	0.9F
	1002	1320	1.1E
	1650	1851	0.4F
	2106		
10 Th		0115	1.4E
	0441	0736	0.9F
	1043	1403	1.2E
	1727	1936	0.5F
	2151		
11 F		0157	1.4E
	0520	0811	1.0F
	1120	1440	1.2E
	1800	2011	0.6F
	2231		
12 Sa		0234	1.5E
	0557	0844	1.0F
	1152	1515	1.2E
	1831	2045	0.6F
	2309		
13 Su		0310	1.5E
	0633	0916	1.1F
	1222	1545	1.3E
	1901	2120	0.7F
	2345		
14 M		0343	1.5E
	0708	0948	1.1F
	1249	1617	1.3E
	1932	2152	0.8F
15 Tu	0023	0418	1.5E
	0744	1021	1.0F
	1317	1647	1.3E
	2005	2230	0.8F
16 W	0103	0453	1.5E
	0823	1058	1.0F
	1345	1719	1.3E
	2040	2311	0.9F
17 Th	0146	0532	1.4E
	0904	1135	0.9F
	1416	1756	1.3E
	2121	2354	0.9F
18 F	0235	0619	1.3E
	0951	1216	0.8F
	1450	1837	1.3E
	2208		
19 Sa		0046	0.9F
	0332	0714	1.2E
	1046	1305	0.7F
	1531	1928	1.3E
	2304		
20 Su		0141	0.9F
	0438	0818	1.1E
	1149	1402	0.6F
	1619	2031	1.3E
21 M	0006	0250	0.9F
	0555	0931	1.1E
	1300	1506	0.5F
	1719	2139	1.4E
22 Tu	0112	0359	1.0F
	0715	1048	1.1E
	1411	1619	0.5F
	1830	2248	1.5E
23 W	0218	0511	1.1F
	0830	1153	1.2E
	1515	1726	0.6F
	1945	2356	1.6E
24 Th	0320	0617	1.3F
	0934	1254	1.4E
	1612	1830	0.8F
	2056		
25 F		0056	1.8E
	0418	0715	1.5F
	1029	1347	1.6E
	1702	1929	1.0F
	2200		
26 Sa		0151	2.0E
	0512	0808	1.6F
	1118	1436	1.7E
	1749	2020	1.1F
	2259		
27 Su		0242	2.0E
	0603	0855	1.6F
	1203	1520	1.8E
	1834	2109	1.2F
	2353		
28 M		0333	2.0E
	0653	0942	1.5F
	1245	1605	1.8E
	1918	2155	1.3F

Time meridian 75° W. 0000 is midnight, 1200 is noon.
* Current weak and variable.

F-Flood, Dir. 305° True E-Ebb, Dir. 125° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0045	0422	2.0E	16	0011	0355	1.6E
Tu	0742	1024	1.4F	W	0721	0954	1.0F
	1324	1650	1.8E		1238	1613	1.4E
	2003	2243	1.3F		1929	2205	1.1F
2	0135	0510	1.8E	17	0052	0433	1.5E
W	0831	1109	1.2F	Th	0800	1027	1.0F
	1401	1733	1.7E		1307	1646	1.4E
	2050	2329	1.2F		2006	2247	1.1F
3	0226	0601	1.6E	18	0137	0514	1.5E
Th	0922	1151	1.0F	F	0842	1106	0.9F
	1437	1819	1.5E		1338	1722	1.4E
	2138				2048	2332	1.1F
4		0016	1.1F	19	0226	0603	1.3E
F	0317	0650	1.4E	Sa	0931	1151	0.8F
	1016	1237	0.7F		1414	1808	1.4E
	1513	1905	1.4E		2138		
	2231						
5		0111	0.9F	20		0023	1.1F
Sa	0413	0748	1.2E	Su	0323	0656	1.2E
	1115	1327	0.5F		1027	1238	0.7F
	1550	1959	1.2E		1457	1859	1.4E
	2329				2235		
6		0208	0.8F	21		0122	1.1F
Su	0514	0852	1.0E	M	0428	0803	1.1E
	1223	1420	0.4F		1133	1338	0.5F
	1632	2100	1.1E		1549	2003	1.4E
					2341		
7	0032	0311	0.7F	22		0232	1.0F
M	0623	0958	0.9E	Tu	0544	0918	1.1E
	1336	1524	0.3F		1247	1447	0.5F
	1726	2203	1.1E		1655	2120	1.4E
8	0137	0420	0.6F	23	0052	0343	1.0F
Tu	0733	1105	0.9E	W	0702	1033	1.1E
	1444	1636	0.3F		1359	1603	0.5F
	1833	2308	1.1E		1817	2235	1.5E
9	0237	0527	0.7F	24	0203	0457	1.1F
W	0834	1202	1.0E	Th	0814	1140	1.3E
	1538	1737	0.3F		1502	1717	0.6F
	1942				1940	2343	1.6E
10		0002	1.2E	25	0308	0602	1.2F
Th	0329	0621	0.8F	F	0914	1238	1.5E
	0925	1249	1.1E		1555	1820	0.8F
	1620	1825	0.4F		2054		
	2041						
11		0049	1.3E	26		0044	1.8E
F	0415	0704	0.9F	Sa	0406	0700	1.3F
	1008	1331	1.2E		1006	1327	1.6E
	1655	1907	0.5F		1642	1917	1.0F
	2131				2158		
12		0132	1.4E	27		0140	1.9E
Sa	0455	0739	0.9F	Su	0500	0749	1.4F
	1044	1408	1.2E		1052	1414	1.7E
	1726	1945	0.7F		1727	2007	1.2F
	2215				2254		
13		0210	1.5E	28		0229	1.9E
Su	0533	0814	1.0F	M	0550	0835	1.4F
	1116	1441	1.3E		1133	1457	1.8E
	1756	2021	0.8F		1809	2053	1.3F
	2254				2346		
14		0246	1.5E	29		0317	1.9E
M	0609	0849	1.0F	Tu	0638	0918	1.3F
	1144	1512	1.4E		1211	1538	1.8E
	1826	2055	0.9F		1851	2136	1.4F
	2333						
15		0322	1.6E	30	0034	0404	1.8E
Tu	0644	0918	1.0F	W	0724	0959	1.1F
	1211	1542	1.4E		1245	1619	1.7E
	1856	2128	1.0F		1934	2220	1.3F
				31	0121	0449	1.7E
				Th	0811	1038	1.0F
					1318	1659	1.6E
					2017	2303	1.2F

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0206	0534	1.5E	16	0130	0459	1.5E
F	0858	1118	0.8F	Sa	0826	1044	0.8F
	1350	1741	1.5E		1307	1700	1.6E
	2102	2346	1.1F		2025	2315	1.3F
2	0252	0623	1.3E	17	0222	0548	1.4E
Sa	0948	1159	0.6F	Su	0917	1129	0.7F
	1422	1826	1.3E		1348	1746	1.5E
	2151				2117		
3		0032	0.9F	18		0008	1.3F
Su	0341	0714	1.1E	M	0319	0648	1.3E
	1045	1246	0.4F		1017	1224	0.6F
	1456	1915	1.2E		1436	1843	1.5E
	2246				2217		
4		0126	0.8F	19		0110	1.2F
M	0435	0814	1.0E	Tu	0424	0757	1.2E
	1149	1337	0.3F		1125	1327	0.5F
	1538	2015	1.1E		1535	1954	1.4E
	2348				2325		
5		0225	0.7F	20		0218	1.1F
Tu	0537	0919	0.9E	W	0535	0908	1.2E
		1440	*		1237	1439	0.5F
		2120	1.0E		1650	2110	1.4E
6	0053	0331	0.6F	21	0037	0329	1.1F
W	0643	1026	0.9E	Th	0646	1019	1.2E
		1551	*		1344	1555	0.6F
		2226	1.1E		1817	2226	1.4E
7	0156	0439	0.6F	22	0148	0441	1.1F
Th	0745	1122	1.0E	F	0751	1120	1.4E
	1458	1655	0.3F		1443	1706	0.7F
	1905	2323	1.1E		1940	2333	1.6E
8	0252	0536	0.7F	23	0254	0544	1.1F
F	0837	1209	1.1E	Sa	0847	1215	1.5E
	1539	1750	0.5F		1534	1806	0.9F
	2011				2051		
9		0018	1.2E	24		0031	1.7E
Sa	0340	0621	0.8F	Su	0353	0638	1.1F
	0920	1254	1.2E		0936	1304	1.6E
	1614	1834	0.6F		1620	1903	1.1F
	2105				2153		
10		0059	1.4E	25		0126	1.7E
Su	0423	0700	0.9F	M	0447	0729	1.1F
	0957	1329	1.3E		1019	1347	1.7E
	1646	1912	0.8F		1703	1948	1.3F
	2152				2247		
11		0142	1.5E	26		0215	1.8E
M	0503	0739	0.9F	Tu	0536	0810	1.1F
	1030	1402	1.4E		1057	1430	1.8E
	1717	1950	0.9F		1745	2035	1.3F
	2235				2336		
12		0220	1.5E	27		0302	1.7E
Tu	0541	0811	1.0F	W	0622	0850	1.0F
	1100	1435	1.5E		1132	1511	1.7E
	1749	2026	1.1F		1825	2116	1.3F
	2317						
13		0255	1.6E	28	0021	0345	1.6E
W	0619	0846	1.0F	Th	0707	0930	0.9F
	1129	1507	1.5E		1204	1548	1.7E
	1822	2104	1.2F		1906	2156	1.3F
	2359						
14		0336	1.6E	29	0105	0428	1.5E
Th	0658	0925	1.0F	F	0751	1006	0.8F
	1159	1540	1.5E		1235	1628	1.6E
	1858	2145	1.3F		1947	2237	1.2F
15	0043	0414	1.6E	30	0146	0512	1.3E
F	0740	1001	0.9F	Sa	0835	1045	0.6F
	1232	1617	1.6E		1305	1706	1.5E
	1939	2228	1.3F		2030	2318	1.1F

Time meridian 75° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

F-Flood, Dir. 305° True E-Ebb, Dir. 125° True

MAY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 Su	0228	0557	1.2E
	0923	1125	0.5F
	1337	1747	1.3E
	2117		
2 M		0000	0.9F
	0311	0646	1.1E
	1015	1211	0.4F
	1413	1836	1.2E
	2208		
3 Tu		0049	0.8F
	0359	0741	1.0E
	1114	1258	0.3F
	1457	1933	1.1E
	2305		
4 W		0144	0.7F
	0452	0838	0.9E
	1217	1402	0.3F
	1554	2038	1.0E
5 Th	0007	0242	0.6F
	0549	0940	0.9E
	1317	1505	0.3F
	1707	2141	1.0E
6 F	0109	0345	0.6F
	0646	1035	1.0E
	1407	1608	0.4F
	1824	2242	1.1E
7 Sa	0206	0441	0.7F
	0738	1124	1.1E
	1450	1705	0.5F
	1933	2336	1.2E
8 Su	0258	0530	0.7F
	0822	1206	1.2E
	1527	1752	0.7F
	2033		
9 M		0021	1.3E
	0345	0615	0.8F
	0902	1244	1.3E
	1603	1835	0.9F
	2125		
10 Tu		0107	1.4E
	0429	0657	0.9F
	0938	1320	1.4E
	1638	1919	1.1F
	2213		
11 W		0151	1.5E
	0511	0737	0.9F
	1013	1359	1.6E
	1714	2000	1.2F
	2300		
12 Th		0232	1.5E
	0553	0818	0.9F
	1048	1433	1.6E
	1752	2041	1.4F
	2347		
13 F		0313	1.6E
	0637	0866	0.9F
	1124	1514	1.7E
	1833	2126	1.5F
14 Sa	0035	0401	1.5E
	0722	0942	0.9F
	1203	1555	1.7E
	1919	2212	1.5F
15 Su	0125	0450	1.5E
	0812	1025	0.8F
	1245	1644	1.7E
	2009	2303	1.5F
16 M	0219	0541	1.4E
	0907	1118	0.7F
	1333	1735	1.7E
	2104		
17 Tu		0000	1.4F
	0316	0642	1.3E
	1007	1214	0.6F
	1429	1836	1.6E
	2205		
18 W		0101	1.3F
	0417	0745	1.3E
	1112	1319	0.6F
	1535	1946	1.5E
	2312		
19 Th		0203	1.1F
	0520	0851	1.3E
	1219	1430	0.6F
	1653	2100	1.4E
20 F	0022	0312	1.1F
	0623	0956	1.3E
	1322	1543	0.7F
	1817	2209	1.4E
21 Sa	0132	0418	1.0F
	0721	1055	1.4E
	1419	1652	0.8F
	1936	2317	1.5E
22 Su	0238	0520	1.0F
	0814	1150	1.5E
	1510	1753	1.0F
	2045		
23 M		0018	1.5E
	0338	0613	0.9F
	0900	1238	1.6E
	1557	1844	1.1F
	2144		
24 Tu		0109	1.6E
	0432	0702	0.9F
	0942	1323	1.7E
	1640	1932	1.2F
	2237		
25 W		0158	1.5E
	0521	0745	0.8F
	1019	1404	1.7E
	1722	2016	1.3F
	2325		
26 Th		0244	1.5E
	0607	0826	0.8F
	1053	1445	1.6E
	1803	2056	1.3F
27 F	0008	0328	1.4E
	0650	0902	0.7F
	1125	1523	1.6E
	1843	2135	1.2F
28 Sa	0048	0409	1.3E
	0732	0940	0.6F
	1156	1600	1.5E
	1923	2211	1.1F
29 Su	0127	0449	1.2E
	0814	1018	0.5F
	1228	1637	1.4E
	2004	2251	1.1F
30 M	0205	0532	1.1E
	0858	1056	0.5F
	1303	1718	1.3E
	2048	2331	1.0F
31 Tu	0243	0616	1.1E
	0945	1141	0.4F
	1342	1802	1.2E
	2135		

JUNE

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1 W		0016	0.9F
	0325	0704	1.0E
	1036	1228	0.4F
	1429	1856	1.1E
	2226		
2 Th		0106	0.8F
	0409	0756	1.0E
	1129	1321	0.4F
	1524	1953	1.1E
	2322		
3 F		0157	0.7F
	0456	0849	1.0E
	1222	1420	0.4F
	1629	2054	1.0E
4 Sa	0020	0252	0.7F
	0545	0940	1.0E
	1311	1520	0.5F
	1741	2153	1.1E
5 Su	0118	0349	0.7F
	0634	1031	1.1E
	1356	1615	0.6F
	1852	2251	1.1E
6 M	0213	0440	0.7F
	0720	1114	1.2E
	1439	1708	0.8F
	1957	2342	1.2E
7 Tu	0305	0529	0.7F
	0804	1158	1.4E
	1520	1759	1.0F
	2057		
8 W	0354	0615	0.8F
	0847	1241	1.5E
	1601	1848	1.2F
	2152		
9 Th	0442	0700	0.8F
	0929	1325	1.6E
	1644	1936	1.3F
	2244		
10 F	0529	0747	0.8F
	1012	1408	1.8E
	1728	2023	1.5F
	2336		
11 Sa	0617	0835	0.9F
	1057	1451	1.8E
	1815	2112	1.6F
12 Su	0027	0347	1.6E
	0706	0923	0.9F
	1144	1540	1.9E
	1904	2201	1.6F
13 M	0119	0437	1.5E
	0758	1013	0.8F
	1234	1631	1.8E
	1957	2254	1.6F
14 Tu	0211	0531	1.5E
	0852	1106	0.8F
	1329	1729	1.8E
	2053	2347	1.5F
15 W	0305	0629	1.5E
	0950	1203	0.8F
	1429	1829	1.7E
	2153		
16 Th		0045	1.3F
	0400	0727	1.4E
	1051	1308	0.7F
	1537	1933	1.5E
	2257		
17 F		0147	1.2F
	0455	0826	1.4E
	1152	1415	0.8F
	1652	2044	1.5E
18 Sa	0005	0248	1.0F
	0551	0927	1.4E
	1253	1524	0.8F
	1810	2151	1.4E
19 Su	0113	0352	0.9F
	0644	1025	1.5E
	1350	1629	0.9F
	1925	2258	1.4E
20 M	0220	0453	0.8F
	0735	1120	1.5E
	1444	1729	1.0F
	2033	2358	1.4E
21 Tu	0322	0546	0.7F
	0821	1209	1.5E
	1533	1825	1.1F
	2132		
22 W		0051	1.4E
	0418	0635	0.7F
	0904	1254	1.6E
	1619	1915	1.1F
	2225		
23 Th		0142	1.3E
	0508	0722	0.6F
	0943	1339	1.6E
	1702	1958	1.1F
	2312		
24 F		0227	1.3E
	0552	0800	0.6F
	1019	1421	1.5E
	1743	2039	1.1F
	2353		
25 Sa		0310	1.3E
	0633	0838	0.5F
	1054	1500	1.5E
	1823	2114	1.1F
26 Su	0031	0349	1.2E
	0712	0916	0.5F
	1128	1538	1.5E
	1902	2152	1.1F
27 M	0106	0427	1.2E
	0750	0952	0.5F
	1203	1615	1.4E
	1941	2228	1.0F
28 Tu	0140	0507	1.1E
	0829	1031	0.6F
	1241	1656	1.3E
	2022	2306	1.0F
29 W	0214	0544	1.1E
	0909	1112	0.5F
	1321	1735	1.3E
	2105	2346	0.9F
30 Th	0249	0626	1.1E
	0952	1157	0.5F
	1406	1820	1.2E
	2151		

Time meridian 75° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

F-Flood, Dir. 305° True E-Ebb, Dir. 125° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0029	0.8F	16		0121	1.1F
F	0325	0708	1.0E	Sa	0421	0756	1.5E
	1037	1242	0.5F		1119	1351	0.9F
	1457	1909	1.1E		1640	2021	1.4E
	2241				2344		
2		0114	0.8F	17		0219	0.9F
Sa	0405	0755	1.1E	Su	0511	0855	1.4E
	1125	1336	0.5F		1219	1457	0.9F
	1556	2005	1.1E		1753	2128	1.3E
	2334						
3		0201	0.7F	18	0052	0319	0.7F
Su	0446	0842	1.1E	M	0601	0954	1.4E
	1214	1429	0.6F		1319	1601	0.9F
	1702	2104	1.1E		1907	2236	1.2E
4	0032	0256	0.7F	19	0200	0420	0.6F
M	0532	0933	1.2E	Tu	0652	1051	1.4E
	1303	1530	0.7F		1417	1708	0.9F
	1813	2205	1.1E		2015	2337	1.2E
5	0131	0350	0.6F	20	0306	0521	0.5F
Tu	0619	1025	1.3E	W	0741	1142	1.4E
	1152	1627	0.8F		1511	1805	1.0F
	1924	2305	1.2E		2116		
6	0228	0444	0.6F	21		0034	1.2E
W	0710	1116	1.4E	Th	0403	0612	0.5F
	1441	1727	1.0F		0829	1234	1.4E
	2031				1600	1857	1.0F
					2209		
7		0005	1.2E	22		0125	1.2E
Th	0124	0538	0.7F	F	0453	0700	0.5F
	0801	1205	1.6E		0914	1319	1.5E
	1531	1821	1.2F		1645	1942	1.0F
	2132				2254		
8		0058	1.3E	23		0208	1.2E
F	0417	0631	0.7F	Sa	0535	0741	0.5F
	0854	1256	1.7E		0955	1400	1.5E
	1620	1915	1.4F		1726	2019	1.0F
	2230				2333		
9		0151	1.5E	24		0250	1.2E
Sa	0508	0723	0.8F	Su	0613	0819	0.5F
	0947	1347	1.8E		1034	1443	1.5E
	1710	2008	1.5F		1805	2056	1.0F
	2324						
10		0242	1.5E	25	0008	0325	1.2E
Su	0558	0816	0.9F	M	0647	0856	0.5F
	1040	1437	1.9E		1111	1518	1.5E
	1800	2057	1.6F		1843	2131	1.0F
11	0015	0331	1.6E	26	0040	0401	1.2E
M	0648	0909	0.9F	Tu	0721	0929	0.6F
	1134	1530	2.0E		1148	1555	1.4E
	1852	2149	1.7F		1920	2203	1.0F
12	0105	0421	1.6E	27	0110	0435	1.2E
Tu	0739	1001	1.0F	W	0755	1006	0.6F
	1230	1621	2.0E		1225	1630	1.4E
	1945	2240	1.6F		1957	2236	1.0F
13	0155	0514	1.6E	28	0139	0511	1.2E
W	0831	1055	1.0F	Th	0830	1044	0.6F
	1327	1718	1.9E		1305	1706	1.4E
	2040	2333	1.5F		2036	2315	0.9F
14	0243	0605	1.6E	29	0209	0544	1.2E
Th	0925	1151	1.0F	F	0907	1125	0.7F
	1427	1816	1.7E		1347	1748	1.3E
	2138				2118	2350	0.9F
15		0026	1.3F	30	0240	0621	1.1E
F	0332	0701	1.6E	Sa	0947	1206	0.7F
	1021	1250	0.9F		1434	1829	1.2E
	1531	1917	1.6E		2204		
	2239						
				31		0033	0.8F
				Su	0314	0702	1.1E
					1031	1255	0.7F
					1528	1922	1.1E
					2255		

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0117	0.7F	16	0029	0244	0.6F
M	0352	0749	1.2E	Tu	0512	0917	1.3E
	1121	1350	0.7F		1246	1530	0.8F
	1631	2025	1.1E		1842	2211	1.1E
	2353						
2		0210	0.6F	17	0141	0348	0.4F
Tu	0435	0843	1.2E	W	0605	1017	1.3E
	1215	1449	0.8F		1348	1642	0.8F
	1742	2128	1.1E		1951	2314	1.1E
3	0055	0307	0.6F	18	0249	0452	0.4F
W	0526	0939	1.3E	Th	0702	1116	1.3E
	1312	1555	0.9F		1447	1743	0.8F
	1857	2235	1.1E		2053		
4	0159	0408	0.6F	19		0012	1.1E
Th	0625	1039	1.4E	F	0347	0550	0.4F
	1410	1658	1.1F		0759	1211	1.3E
	2010	2340	1.2E		1539	1834	0.9F
					2145		
5	0301	0512	0.6F	20		0103	1.1E
F	0728	1140	1.6E	Sa	0433	0639	0.4F
	1507	1759	1.2F		0852	1300	1.4E
	2116				1625	1919	0.9F
					2228		
6		0039	1.3E	21		0144	1.2E
Sa	0357	0609	0.7F	Su	0511	0721	0.5F
	0832	1238	1.7E		0939	1341	1.4E
	1602	1859	1.4F		1707	1956	1.0F
	2214				2305		
7		0135	1.5E	22		0223	1.2E
Su	0449	0709	0.8F	M	0545	0758	0.6F
	0933	1334	1.9E		1021	1421	1.5E
	1655	1952	1.6F		1745	2031	1.0F
	2308				2338		
8		0224	1.6E	23		0258	1.2E
M	0539	0803	1.0F	Tu	0616	0833	0.7F
	1033	1426	2.0E		1059	1458	1.5E
	1748	2043	1.6F		1821	2102	1.0F
	2357						
9		0313	1.7E	24	0007	0331	1.3E
Tu	0627	0855	1.1F	W	0647	0905	0.7F
	1130	1518	2.1E		1135	1533	1.5E
	1839	2133	1.6F		1856	2134	1.0F
10	0044	0402	1.8E	25	0034	0401	1.3E
W	0715	0947	1.2F	Th	0717	0940	0.8F
	1226	1610	2.0E		1212	1605	1.5E
	1931	2221	1.6F		1932	2207	1.0F
11	0129	0449	1.8E	26	0059	0432	1.3E
Th	0804	1039	1.2F	F	0749	1015	0.8F
	1322	1703	1.9E		1249	1642	1.4E
	2024	2310	1.4F		2009	2241	0.9F
12	0213	0538	1.7E	27	0126	0501	1.3E
F	0855	1130	1.2F	Sa	0823	1052	0.9F
	1419	1758	1.8E		1330	1719	1.4E
	2119	2358	1.2F		2048	2316	0.9F
13	0256	0628	1.6E	28	0154	0536	1.3E
Sa	0947	1224	1.1F	Su	0901	1133	0.9F
	1518	1855	1.6E		1415	1800	1.3E
	2218				2133	2355	0.8F
14		0049	1.0F	29	0226	0614	1.2E
Su	0339	0721	1.5E	M	0945	1220	0.9F
	1043	1321	1.0F		1507	1849	1.2E
	1621	1957	1.4E		2224		
	2321						
15		0143	0.7F	30		0042	0.7F
M	0424	0818	1.4E	Tu	0303	0701	1.2E
	1143	1425	0.9F		1037	1316	0.9F
	1730	2102	1.2E		1608	1946	1.1E
					2323		
				31		0133	0.6F
				W	0348	0758	1.3E
					1136	1419	0.9F
					1720	2100	1.0E

Time meridian 75° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.

MOBILE BAY ENTRANCE, ALABAMA, 1983

F-Flood, Dir. 025° True E-Ebb, Dir. 190° True

JANUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 Sa	1220	0552 1845	3.1E 2.9F	16 Su	0028 1230	0616 1901	2.1E 1.9F
2 Su	0051 1314	0643 1933	2.8E 2.5F	17 M	0108 1308	0657 1930	1.9E 1.7F
3 M	0142 1401	0724 2017	2.3E 1.9F	18 Tu	0141 1342	0732 1950	1.6E 1.4F
4 Tu	0225 1432	0759 2046	1.7E 1.3F	19 W	0211 1409	0755 2000	1.3E 1.0F
5 W	0252 1417	0808 1945	1.0E 0.6F	20 Th	0233 1417	0816 1913	0.8E 0.5F
6 Th	0213 1157 2109	0654 1621	0.5E 0.4F	21 F	0150	0642 1624	0.3E *
7 F	0840 1949	0251 1453	0.4E 0.8F	22 Sa	0602 1821	0109 1240	0.4E 0.6F
8 Sa	0744 1959	0125 1437	1.0E 1.2F	23 Su	0601 1838	0031 1236	1.0E 1.2F
9 Su	0756 2028	0138 1450	1.5E 1.6F	24 M	0640 1920	0057 1311	1.6E 1.8F
10 M	0825 2103	0215 1519	1.9E 1.8F	25 Tu	0730 2012	0135 1359	2.2E 2.3F
11 Tu	0900 2143	0244 1548	2.1E 2.0F	26 W	0826 2109	0221 1459	2.6E 2.6F
12 W	0940 2224	0328 1631	2.2E 2.1F	27 Th	0926 2207	0313 1600	2.9E 2.8F
13 Th	1023 2306	0408 1707	2.3E 2.1F	28 F	1027 2305	0405 1702	3.0E 2.9F
14 F	1106 2348	0451 1749	2.3E 2.1F	29 Sa	1128	0500 1759	2.9E 2.7F
15 Sa	1149	0533 1826	2.2E 2.0F	30 Su	0002 1226	0549 1900	2.5E 2.3F
				31 M	0055 1320	0630 1945	2.0E 1.7F

FEBRUARY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 Tu	0143 1403	0707 2031	1.4E 1.0F	16 W	0151 1402	0720 2019	0.9E 0.6F
2 W	0221 1401	0700 2018	0.8E 0.3F	17 Th	0246	0733 2006	0.4E *
3 Th	1734	0554 1332 2314	* 0.3F 0.4E	18 F		0308 0848 2126	* * 0.4E
4 F	0545 1738	1232 2329	0.7F 1.0E	19 Sa	0258 1538	0939 2223	0.7F 1.0E
5 Sa	0547 1816	1241	1.2F	20 Su	0406 1641	1028 2312	1.3F 1.6E
6 Su	0621 1901	0012 1310	1.4E 1.5F	21 M	0505 1745	1128	1.8F
7 M	0703 1949	0055 1348	1.7E 1.7F	22 Tu	0606 1850	0012 1228	2.1E 2.1F
8 Tu	0748 2039	0136 1442	1.9E 1.8F	23 W	0709 1957	0104 1340	2.4E 2.4F
9 W	0837 2129	0227 1531	2.0E 1.9F	24 Th	0815 2102	0201 1446	2.6E 2.5F
10 Th	0927 2218	0313 1623	2.1E 1.9F	25 F	0921 2207	0257 1556	2.6E 2.4F
11 F	1017 2304	0358 1715	2.1E 1.8F	26 Sa	1028 2309	0355 1710	2.4E 2.2F
12 Sa	1104 2348	0439 1757	2.0E 1.8F	27 Su	1137	0448 1813	2.1E 1.8F
13 Su	1149	0522 1839	1.9E 1.6F	28 M	0011 1252	0530 1935	1.5E 1.2F
14 M	0029 1231	0557 1915	1.6E 1.4F				
15 Tu	0109 1314	0640 1938	1.3E 1.1F				

Time meridian 90° W. 0000 is midnight. 1200 IS noon.
If three consecutive entries are marked (F) the middle one is not a true maximum but an intermediate value to show the current pattern.
* Current weak and variable.

F-Flood, Dir. 025° True E-Ebb, Dir. 190° True

MARCH

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 Tu	0116 1449	0613 2112	0.9E 0.7F
2 W	0244 2045	0600 1048 1559	0.3E * 0.3E
3 Th	1331	0907 1917	0.4F 0.7E
4 F	0151 1453	0922 2053	0.9F 1.1E
5 Sa	0314 1558	1006 2202	1.2F 1.4E
6 Su	0413 1659	1054 2305	1.4F 1.6E
7 M	0509 1801	1140	1.5F
8 Tu	0606 1905	0001 1243	1.7E 1.6F
9 W	0704 2009	0059 1352	1.8E 1.6F
10 Th	0803 2109	0153 1505	1.8E 1.5F
11 F	0902 2205	0243 1614	1.8E 1.5F
12 Sa	1000 2258	0339 1717	1.7E 1.4F
13 Su	1057 2350	0422 1812	1.5E 1.2F
14 M	1201	0457 1857	1.2E 1.0F
15 Tu	0050 1341	0559 2025	0.8E 0.7F
16 W	0223 1747	0700 2340	0.4E 0.4F
17 Th	0904 2233	1636	0.5E
18 F	1209	0612 1839	0.7F 0.9E
19 Sa	0049 1332	0730 2000	1.2F 1.4E
20 Su	0211 1444	0839 2111	1.6F 1.8E
21 M	0321 1556	0940 2224	2.0F 2.1E
22 Tu	0429 1710	1044 2329	2.2F 2.3E
23 W	0537 1824	1154	2.2F
24 Th	0646 1938	0035 1313	2.3E 2.2F
25 F	0755 2050	0135 1433	2.2E 1.9F
26 Sa	0907 2202	0232 1603	1.9E 1.6F
27 Su	1030 2322	0327 1745	1.5E 1.1F
28 M	1315	0415 1948	0.9E 0.7F
29 Tu	0123 1840	0436 0811 1407 2324	0.3E * 0.4E 0.4F
30 W	1037 2214	0236 0611 1620	0.3F 0.4F 0.8E
31 Th	1200	0637 1736	0.9F 1.2E

APRIL

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 F	0001 1300	0720 1851	1.3F 1.5E
2 Sa	0111 1356	0804 1954	1.5F 1.7E
3 Su	0211 1454	0839 2057	1.6F 1.8E
4 M	0309 1556	0933 2206	1.7F 1.8E
5 Tu	0408 1702	1024 2306	1.6F 1.7E
6 W	0508 1813	1128	1.5F
7 Th	0609 1923	0013 1238	1.6E 1.3F
8 F	0709 2031	0110 1406	1.5E 1.2F
9 Sa	0810 2138	0204 1542	1.3E 1.0F
10 Su	0918 2256	0254 1719	1.1E 0.7F
11 M	1139	0348 1948	0.7E 0.5F
12 Tu	0101 1749	0437 0905 1329 2312	0.3E * 0.3E 0.4F
13 W	0833 2043	1512	0.7E
14 Th	1016 2225	0349 1622	0.8F 1.2E
15 F	1119 2340	0520 1724	1.3F 1.6E
16 Sa	1219	0621 1831	1.7F 2.0E
17 Su	0048 1320	0715 1936	2.1F 2.2E
18 M	0154 1425	0813 2043	2.3F 2.4E
19 Tu	0259 1533	0914 2147	2.4F 2.4E
20 W	0404 1643	1017 2253	2.3F 2.2E
21 Th	0507 1753	1123 2353	2.0F 1.9E
22 F	0608 1904	1225	1.6F
23 Sa	0706 2020	0044 1354	1.5E 1.0F
24 Su	0802 2205	0125 1624	0.9E 0.5F
25 M	1801	0112 0743 1348	0.3E * 0.3E
26 Tu	0938 2055	0536 1502	0.4F 0.9E
27 W	1025 2210	0511 1600	1.0F 1.4E
28 Th	1108 2305	0531 1648	1.4F 1.8E
29 F	1152 2356	0606 1737	1.7F 2.0E
30 Sa	1237	0641 1826	1.9F 2.1E

Time meridian 90° W. 0000 is midnight. 1200 IS noon.
If three consecutive entries are marked (F) the middle one is not a true maximum but an intermediate value to show the current pattern.
* Current weak and variable.

MOBILE BAY ENTRANCE, ALABAMA, 1983

F-Flood, Dir. 025° True E-Ebb, Dir. 190° True

MAY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots	Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 Su	0045 1324	0721 1921	2.0F 2.1E	16 M	0047 1318	0712 1927	2.7F 2.7E
2 M	0136 1415	0758 2016	1.9F 2.0E	17 Tu	0147 1417	0803 2027	2.7F 2.6E
3 Tu	0228 1511	0844 2117	1.8F 1.9E	18 W	0245 1516	0900 2121	2.4F 2.3E
4 W	0322 1610	0930 2217	1.6F 1.7E	19 Th	0340 1613	0949 2212	2.0F 1.9E
5 Th	0414 1711	1016 2306	1.4F 1.5E	20 F	0426 1704	1021 2248	1.5F 1.3E
6 F	0503 1813	1051	1.1F	21 Sa	0452 1739	1025 2249	0.8F 0.7E
7 Sa	0547 1920	0003 1109	1.2E 0.8F	22 Su	0405	0748 2032	0.3F *
8 Su	0623 2100	0052 1039	0.8E 0.4F	23 M	0928 2050	0527 1435	0.5F 0.7E
9 M		0112 0828 1409 2142	0.4E * * *	24 Tu	0925 2110	0429 1456	1.0F 1.3E
10 Tu	1946	0102 0513 1429	* * 0.7E	25 W	0952 2145	0430 1533	1.4F 1.8E
11 W	0913 2056	0314 1518	0.7F 1.2E	26 Th	1026 2223	0445 1608	1.8F 2.1E
12 Th	0951 2154	0351 1553	1.3F 1.7E	27 F	1103 2303	0514 1651	2.1F 2.3E
13 F	1036 2250	0438 1643	1.8F 2.1E	28 Sa	1142 2346	0545 1732	2.2F 2.4E
14 Sa	1126 2348	0526 1733	2.3F 2.5E	29 Su	1224	0621 1815	2.2F 2.3E
15 Su	1221	0615 1827	2.6F 2.7E	30 M	0030 1309	0700 1903	2.1F 2.2E
				31 Tu	0117 1355	0735 1954	2.0F 2.1E

JUNE

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots	Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 W	0203 1441	0819 2043	1.8F 1.9E	16 Th	0233 1459	0846 2048	2.1F 1.8E
2 Th	0246 1526	0848 2126	1.6F 1.6E	17 F	0309 1532	0915 2106	1.4F 1.2E
3 F	0325 1605	0903 2207	1.3F 1.2E	18 Sa	0310 1514	0842 2027	0.8F 0.6E
4 Sa	0353 1634	0910 2236	0.9F 0.8E	19 Su	0125 1028 2144	0541 1554	0.5F 0.4E
5 Su	0400 1542	0812 2212	0.5F 0.3E	20 M	0836 2025	0353 1408	0.8F 1.0E
6 M	0243 1030 1958	0645 1441	0.3F 0.4E	21 Tu	0840 2036	0326 1421	1.3F 1.6E
7 Tu	0847 1952	0413 1423	0.5F 0.9E	22 W	0906 2105	0336 1450	1.7F 2.0E
8 W	0843 2027	0253 1438	1.0F 1.5E	23 Th	0940 2140	0356 1527	2.0F 2.3E
9 Th	0911 2112	0313 1518	1.6F 2.0E	24 F	1018 2218	0428 1602	2.2F 2.4E
10 F	0951 2202	0351 1556	2.1F 2.5E	25 Sa	1057 2259	0500 1643	2.3F 2.4E
11 Sa	1039 2257	0434 1639	2.6F 2.8E	26 Su	1139 2342	0542 1724	2.3F 2.4E
12 Su	1131 2353	0529 1733	2.8F 3.0E	27 M	1221	0620 1808	2.2F 2.3E
13 M	1225	0618 1827	3.0F 3.0E	28 Tu	0025 1302	0655 1853	2.1F 2.2E
14 Tu	0050 1320	0711 1920	2.9F 2.8E	29 W	0106 1342	0730 1937	1.9F 2.0E
15 W	0145 1412	0800 2009	2.6F 2.4E	30 Th	0144 1419	0748 2012	1.7F 1.7E

Time meridian 90° W. 0000 is midnight. 1200 IS noon.
If three consecutive entries are marked (F) the middle one is not a true maximum but an intermediate value to show the current pattern.
* Current weak and variable.

F-Flood, Dir. 025° True E-Ebb, Dir. 190° True

JULY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 F	0217 1449	0808 2038	1.4F 1.3E
2 Sa	0241 1504	0815 2048	1.0F 0.8E
3 Su	0240 1354	0731 1939	0.6F 0.3E
4 M	0100 0937 1932	0536 1409	0.4F 0.4E
5 Tu	0750 1905	0253 1342	0.6F 1.0E
6 W	0745 1934	0147 1349	1.1F 1.6E
7 Th	0815 2017	0208 1418	1.7F 2.1C
8 F	0857 2108	0251 1501	2.2F 2.6E
9 Sa	0948 2204	0345 1550	2.6F 2.9E
10 Su	1041 2302	0437 1642	2.9F 3.1E
11 M	1137 2359	0533 1732	3.0F 3.0E
12 Tu	1231	0628 1826	2.8F 2.7E
13 W	0055 1323	0719 1909	2.5F 2.3E
14 Th	0145 1408	0800 1939	2.0F 1.7E
15 F	0222 1440	0834 1951	1.3F 1.0E
16 Sa	0215 1408 2319	0748 1845	0.6F 0.4E
17 Su	0807 1937	0334 1352	0.4F 0.4E
18 M	0703 1905	0157 1254	0.8F 1.0E
19 Tu	0725 1929	0206 1315	1.3F 1.6E
20 W	0801 2004	0222 1350	1.7F 2.0E
21 Th	0842 2045	0251 1427	1.9F 2.2E
22 F	0926 2128	0331 1508	2.1F 2.3E
23 Sa	1011 2212	0417 1554	2.1F 2.3E
24 Su	1055 2257	0458 1635	2.1F 2.3E
25 M	1139 2340	0546 1716	2.1F 2.2E
26 Tu	1221	0623 1759	2.0F 2.0E
27 W	0022 1300	0658 1840	1.8F 1.8E
28 Th	0059 1336	0727 1909	1.5F 1.5E
29 F	0133 1408	0748 1947	1.2F 1.1E
30 Sa	0201 1433	0749 1951	0.8F 0.7E
31 Su	0208	0642 1813	0.4F *

AUGUST

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 M	1713	0333 1221 2355	* 0.4E 0.5F
2 Tu	0547 1731	1200 2353	0.9E 1.1F
3 W	0611 1813	1229	1.5E
4 Th	0655 1905	0042 1312	1.6F 2.0E
5 F	0748 2002	0131 1358	2.1F 2.4E
6 Sa	0846 2102	0232 1447	2.5F 2.7E
7 Su	0945 2204	0336 1540	2.7F 2.9E
8 M	1045 2307	0438 1638	2.7F 2.8E
9 Tu	1143	0542 1727	2.6F 2.5E
10 W	0008 1239	0636 1815	2.2F 2.0E
11 Th	0109 1333	0739 1845	1.6F 1.3E
12 F	0210 1425	0842 1857	1.0F 0.6E
13 Sa		0931 1703 2348	* * 0.3F
14 Su	0334 1613	0930 2321	0.5E 0.8F
15 M	0437 1659	1038 2345	1.1E 1.3F
16 Tu	0532 1747	1133	1.5E
17 W	0626 1836	0036 1224	1.6F 1.8E
18 Th	0721 1926	0120 1310	1.8F 2.0E
19 F	0816 2018	0214 1359	1.8F 2.0E
20 Sa	0910 2111	0314 1451	1.8F 2.0E
21 Su	1003 2203	0411 1539	1.8F 2.0E
22 M	1053 2252	0506 1622	1.8F 1.9E
23 Tu	1139 2340	0554 1711	1.6F 1.7E
24 W	1223	0637 1748	1.5F 1.5E
25 Th	0026 1307	0712 1829	1.2F 1.1E
26 F	0115 1358	0800 1912	0.9F 0.7E
27 Sa	0224 1525	0912 1933	0.5F 0.3E
28 Su		1838	*
29 M	1406	0824 2040	0.5E 0.7F
30 Tu	0251 1525	0933 2143	1.0E 1.2F
31 W	0401 1629	1036 2240	1.5E 1.7F

Time meridian 90° W. 0000 is midnight. 1200 IS noon.
If three consecutive entries are marked (F) the middle one is not a true maximum but an intermediate value to show the current pattern.
* Current weak and variable.

GALVESTON BAY ENTRANCE (between jetties), TEXAS, 1983

F-Flood, Dir. 300° True E-Ebb, Dir. 100° True

JANUARY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 Sa	0239	1013	3.9E
	1456	1827	2.9F
2 Su	0312	1107	3.4E
	1551	1918	2.5F
3 M	0251	1201	2.7E
	1647	2004	2.0F
4 Tu	0145	0455	0.4E
		0705	0.3E
		1317	1.9E
	1744	2045	1.6F
5 W	0119	0455	0.8E
		0845	*
		1445	1.1E
	1843	2125	1.1F
6 Th	0059	0500	1.3E
	0853	1035	0.4F
	1345	1639	0.5E
	1947	2203	0.7F
7 F	0034	0525	1.8E
	0926	1232	1.0F
	1647	1911	0.3E
	2100	2243	0.4F
8 Sa	0021	0552	2.2E
	1003	1346	1.6F
	1838	2053	0.3E
		2324	*
9 Su		0626	2.6E
	1040	1429	2.0F
	1949	2136	0.3E
10 M		0006	*
		0658	2.8E
	1118	1458	2.2F
	2047	2231	0.3E
11 Tu		0041	*
		0735	3.0E
	1156	1527	2.4F
		2327	*
12 W		0120	*
		0807	3.1E
	1234	1558	2.4F
13 Th		0021	*
		0152	*
		0845	3.1E
	1312	1633	2.4F
14 F	0018	0920	3.1E
	1350	1708	2.3F
15 Sa	0141	0949	3.0E
	1428	1743	2.1F
16 Su	0242	1018	2.8E
	1506	1823	1.9F
17 M	0308	1049	2.5E
	1544	1901	1.7F
18 Tu	0310	1118	2.1E
	1623	1941	1.4F
19 W	0125	1144	1.6E
	1707	2018	1.1F
20 Th	0029	0321	0.4E
		0819	*
		1312	0.9E
	1803	2059	0.7F
	2326		
21 F		0336	0.8E
	0821	0950	0.3F
	1132	1537	0.4E
	1941	2135	0.3F
	2303		
22 Sa		0408	1.4E
	0839	1112	0.9F
		1948	*
		2210	*
23 Su		0448	1.9E
	0912	1221	1.6F
	1826	2113	0.4E
		2252	0.3E
24 M		0529	2.6E
	0952	1323	2.3F
	1942	2217	0.4E
		2327	0.4E
25 Tu		0615	3.2E
	1037	1413	2.8F
	2054	2319	0.3E
		2345	0.3E
26 W		0702	3.7E
	1125	1501	3.2F
	2217		
27 Th		0748	4.0E
	1215	1548	3.3F
28 F	0201	0837	4.1E
	1306	1631	3.2F
29 Sa		0100	*
		0217	*
		0928	4.0E
	1356	1715	2.9F
30 Su		0048	*
		0324	0.3F
	0447	1017	3.6E
	1446	1753	2.4F
31 M		0036	*
		0429	0.4F
	0555	1106	2.9E
	1535	1833	1.9F
	2326		

FEBRUARY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 Tu		0102	0.3E
	0340	0546	0.4F
	0707	1203	2.1E
	1624	1908	1.4F
	2301		
2 W		0139	0.7E
	0525	0704	0.4F
	0838	1312	1.2E
	1718	1946	0.9F
	2228		
3 Th		0225	1.1E
	0644	0833	0.5F
	1143	1449	0.5E
	1828	2025	0.4F
	2208		
4 F		0317	1.5E
	0746	1021	0.8F
		1822	*
		2108	*
5 Sa		0414	1.9E
	0840	1254	1.3F
	1752	1947	0.3E
		2156	*
6 Su		0501	2.2E
	0929	1343	1.8F
	1846	2049	0.4E
		2245	*
7 M		0555	2.4E
	1014	1418	2.1F
	1931	2124	0.4E
		2342	*
8 Tu		0638	2.7E
	1058	1452	2.2F
	2014	2211	0.4E
9 W		0025	*
		0718	2.9E
	1140	1515	2.3F
	2100	2242	0.3E
10 Th		0111	*
		0759	3.0E
	1220	1536	2.2F
		2322	*
11 F		0149	*
		0834	3.0E
	1258	1605	2.2F
		2339	*
12 Sa		0229	0.3F
	0338	0909	3.0E
	1335	1634	2.0F
		2319	*
13 Su		0304	0.3F
	0425	0944	2.8E
	1410	1706	1.8F
		2326	*
14 M		0342	0.3F
	0511	1014	2.5E
	1444	1738	1.6F
		2341	*
15 Tu		0428	0.3F
	0600	1048	2.1E
	1519	1810	1.2F
	2201		
16 W		0010	0.3E
	0213	0529	0.3F
	0700	1123	1.6E
	1558	1842	0.8F
	2115		
17 Th		0031	0.6E
	0341	0639	0.4F
	0820	1218	1.0E
	1649	1911	0.4F
	2053		
18 F		0046	0.9E
	0512	0800	0.6F
	1026	1354	0.4E
		1941	*
19 Sa		0129	1.3E
	0628	0924	1.0F
	1602		
20 Su		0233	1.7E
	0733	1053	1.5F
	1743		
21 M		0346	2.2E
	0832	1209	2.1F
	1839		
22 Tu		0455	2.7E
	0928	1312	2.6F
	1932	2208	0.5E
		2302	0.5E
23 W		0555	3.2E
	1023	1400	2.9F
	2024	2228	0.4E
		2359	0.3E
24 Th		0652	3.6E
	1115	1443	3.0F
		2240	*
25 F		0059	*
		0745	3.7E
	1206	1524	2.9F
		2231	*
26 Sa		0151	0.4F
	0314	0834	3.7E
	1256	1601	2.6F
		2226	*
27 Su		0245	0.7F
	0431	0926	3.3E
	1343	1636	2.1F
	2108	2241	0.4E
28 M	0046	0345	0.9F
	0543	1015	2.7E
	1430	1705	1.6F
	2049	2309	0.7E

Time meridian 90° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.
If three consecutive entries are marked (E) the middle one is not a true maximum but an intermediate value to show the current pattern.

F-Flood, Dir. 300° True E-Ebb, Dir. 100° True

MARCH

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 Tu	0151	0445	1.0F	16 W	0120	0440	1.0F
	0657	1109	2.0E		0701	1052	1.5E
	1517	1737	1.1F		1508	1715	0.6F
	2021	2338	1.1E		1859	2243	1.2E
2 W	0300	0548	1.1F	17 Th	0205	0538	1.2F
	0824	1203	1.2E		0819	1146	0.9E
	1610	1810	0.6F			1736	*
	2000					2250	1.5E
3 Th		0013	1.4E	18 F	0259	0639	1.3F
	0414	0657	1.1F		1025	1303	0.4E
	1039	1321	0.5E			1538	*
		1844	*			2313	1.8E
4 F		0053	1.6E	19 Sa	0406	0756	1.5F
	0529	0815	1.1F		1456	2348	2.1E
	1423	1737	0.3E				
		1914	*				
5 Sa		0147	1.7E	20 Su	0524	0912	1.7F
	0641	0956	1.3F		1634		
	1635	1910	0.5E				
		1957	0.4E				
6 Su		0256	1.8E	21 M		0058	2.3E
	0748	1220	1.6F		0646	1035	2.0F
	1726	1959	0.6E		1725		
		2111	0.6E				
7 M		0415	2.0E	22 Tu		0301	2.4E
	0848	1309	1.8F		0800	1156	2.4F
	1807	2035	0.6E		1809		
		2226	0.5E				
8 Tu		0521	2.2E	23 W		0433	2.7E
	0942	1346	2.0F		0906	1251	2.6F
	1843	2104	0.6E		1846	2119	0.6E
		2323	0.3E			2305	0.5E
9 W		0615	2.4E	24 Th		0542	3.0E
	1031	1415	2.0F		1005	1335	2.6F
	1916	2132	0.5E		1907	2124	0.5E
10 Th		0014	*	25 F		0005	*
		0703	2.6E			0645	3.1E
	1116	1436	2.0F		1100	1412	2.5F
	1942	2154	0.4E		1912	2117	0.5E
					2330		
11 F		0100	*	26 Sa		0108	0.4F
		0745	2.7E		0231	0742	3.0E
	1157	1459	1.9F		1150	1444	2.2F
	2000	2157	0.3E		1908	2111	0.7E
	2358				2345		
12 Sa		0143	0.4F	27 Su		0205	0.9F
	0310	0821	2.7E		0403	0836	2.7E
	1235	1523	1.8F		1239	1516	1.8F
	2007	2145	0.3E		1856	2126	1.0E
13 Su	0004	0224	0.6F	28 M	0017	0257	1.3F
	0407	0856	2.6E		0526	0926	2.3E
	1311	1549	1.6F		1326	1545	1.3F
	2006	2158	0.4E		1835	2146	1.4E
14 M	0018	0307	0.8F	29 Tu	0059	0352	1.5F
	0502	0933	2.3E		0648	1020	1.7E
	1347	1617	1.3F		1414	1612	0.8F
	1947	2214	0.6E		1814	2212	1.7E
15 Tu	0043	0353	0.9F	30 W	0145	0449	1.7F
	0558	1008	1.9E		0820	1118	1.1E
	1425	1646	1.0F		1511	1641	0.4F
	1917	2228	0.9E		1800	2238	2.0E
				31 Th	0236	0545	1.7F
					1014	1226	0.5E
						1709	*
						2306	2.1E

APRIL

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1 F	0330	0646	1.7F	16 Sa	0244	0639	2.2F
	1250	2341	2.1E		1350	2237	2.7E
2 Sa	0432	0756	1.6F	17 Su	0346	0746	2.2F
	1508				1524	2322	2.8E
3 Su		0017	2.0E	18 M	0459	0900	2.3F
	0542	0912	1.6F		1615		
	1604						
4 M		0142	1.9E	19 Tu		0033	2.7E
	0654	1107	1.7F		0618	1015	2.4F
	1645				1654		
5 Tu		0313	1.8E	20 W		0239	2.5E
	0802	1218	1.8F		0733	1120	2.4F
	1719	2009	0.8E		1720	2025	0.8E
		2157	0.7E			2142	0.8E
6 W		0433	1.9E	21 Th		0415	2.5E
	0902	1251	1.8F		0841	1215	2.4F
	1745	2033	0.8E		1729	2021	0.8E
		2308	0.4E			2307	0.3E
7 Th		0542	2.1E	22 F		0530	2.4E
	0954	1316	1.8F		0941	1252	2.1F
	1803	2047	0.7E		1727	2015	0.9E
					2306		
8 F		0000	*	23 Sa		0016	0.3F
		0633	2.2E		0129	0640	2.3E
	1041	1339	1.7F		1036	1327	1.8F
	1812	2052	0.7E		1719	2004	1.1E
	2327				2314		
9 Sa		0054	0.3F	24 Su		0116	0.9F
	0211	0720	2.2E		0335	0743	2.0E
	1123	1406	1.6F		1127	1356	1.4F
	1814	2044	0.7E		1704	2019	1.5E
	2335				2342		
10 Su		0135	0.7F	25 M		0210	1.4F
	0331	0802	2.1E		0518	0837	1.6E
	1204	1432	1.4F		1217	1423	1.0F
	1805	2044	0.9E		1643	2037	2.0E
	2350						
11 M		0221	1.0F	26 Tu	0016	0305	1.8F
	0440	0844	1.9E		0650	0937	1.1E
	1244	1458	1.1F		1309	1452	0.6F
	1740	2059	1.2E		1628	2104	2.3E
12 Tu	0010	0305	1.3F	27 W	0054	0355	2.1F
	0549	0927	1.6E		0820	1043	0.7E
	1328	1527	0.7F			1519	*
	1721	2114	1.5E			2127	2.5E
13 W	0037	0353	1.6F	28 Th	0133	0449	2.2F
	0703	1017	1.2E		1000	1203	0.3E
	1422	1549	0.3F			1541	*
	1705	2129	1.9E			2156	2.6E
14 Th	0111	0443	1.8F	29 F	0216	0539	2.2F
	0833	1105	0.7E		1208	2217	2.6E
		1608	*				
		2139	2.2E				
15 F	0153	0538	2.0F	30 Sa	0302	0633	2.1F
	1037	1231	0.3E		1354	2243	2.5E
		1355	0.3E				
		2159	2.5E				

Time meridian 90° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.
If three consecutive entries are marked (E) the middle one is not a true maximum but an intermediate value to show the current pattern.

GALVESTON BAY ENTRANCE (between jetties), TEXAS, 1983

F-Flood, Dir. 300° True E-Ebb, Dir. 100° True

MAY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 Su	0355	0731	2.0F
	1451	2313	2.3E
2 M	0457	0839	1.9F
	1533		
3 Tu		0000	2.0E
	0604	0956	1.8F
	1606		
4 W		0212	1.8E
	0711	1055	1.8F
	1628	1936	0.9E
		2129	0.8E
5 Th		0340	1.7E
	0811	1136	1.7F
	1640	1952	0.9E
		2240	0.4E
6 F		0456	1.7E
	0906	1211	1.6F
	1643	2002	0.9E
		2340	*
7 Sa		0559	1.6E
	0955	1240	1.4F
	1639	1943	1.0E
	2301		
8 Su		0037	0.5F
	0226	0654	1.5E
	1042	1309	1.2F
	1622	1938	1.2E
	2311		
9 M		0129	1.0F
	0409	0744	1.3E
	1129	1336	0.9F
	1556	1950	1.6E
	2329		
10 Tu		0212	1.4F
	0538	0839	1.1E
	1221	1405	0.5F
	1539	2008	2.0E
	2353		
11 W		0301	1.9F
	0705	0936	0.8E
		1433	*
		2029	2.4E
12 Th	0024	0350	2.3F
	0838	1042	0.5E
		1448	*
		2045	2.8E
13 F	0102	0441	2.6F
	1031	2113	3.1E
14 Sa	0147	0534	2.8F
	1306	2145	3.3E
15 Su	0240	0635	2.8F
	1426	2228	3.3E
16 M	0340	0737	2.8F
	1516	2325	3.2E
17 Tu	0447	0841	2.7F
	1552		
18 W		0043	2.8E
	0557	0946	2.5F
	1608		
19 Th		0226	2.4E
	0706	1041	2.2F
	1604	1915	0.9E
		2150	0.5E
20 F		0357	2.0E
	0810	1124	1.9F
	1554	1913	1.1E
		2310	*
21 Sa		0520	1.6E
	0910	1159	1.5F
	1542	1902	1.4E
	2233		
22 Su		0027	0.7F
	0306	0643	1.3E
	1006	1228	1.1F
	1523	1917	1.9E
	2259		
23 M		0130	1.3F
	0511	0757	0.9E
	1101	1303	0.8F
	1503	1934	2.3E
	2331		
24 Tu		0224	1.8F
	0650	0913	0.6E
	1158	1331	0.4F
	1454	2003	2.7E
25 W	0007	0313	2.2F
	0823	1042	0.4E
		1358	*
		2027	2.9E
26 Th	0044	0402	2.4F
	1001	1224	0.3E
		1421	*
		2056	3.0E
27 F	0122	0445	2.5F
	1142	2125	3.0E
28 Sa	0202	0533	2.4F
	1257	2154	2.9E
29 Su	0245	0619	2.3F
	1352	2221	2.7E
30 M	0333	0711	2.2F
	1436	2259	2.5E
31 Tu	0426	0805	2.0F
	1509	2342	2.2E

JUNE

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1 W	0522	0900	1.9F
	1529		
2 Th		0105	1.9E
	0619	0946	1.7F
	1533	1905	0.8E
		2052	0.7E
3 F		0241	1.6E
	0715	1029	1.5F
	1527	1913	0.9E
		2215	0.4E
4 Sa		0404	1.3E
	0811	1104	1.3F
	1515	1854	1.0E
		2326	*
5 Su		0521	1.0E
	0905	1140	1.0F
	1448	1830	1.3E
	2226		
6 M		0022	0.7F
	0317	0630	0.8E
	1003	1215	0.7F
	1419	1839	1.7E
	2240		
7 Tu		0118	1.3F
	0518	0739	0.6E
	1107	1242	0.4F
	1405	1900	2.2E
	2303		
8 W		0207	1.9F
	0654	0859	0.4E
		1312	*
		1926	2.7E
	2334		
9 Th		0256	2.4F
	0829	1112	0.3E
		1327	*
		1955	3.2E
10 F	0012	0344	2.8F
	1026	2024	3.5E
11 Sa	0056	0438	3.1F
	1225	2103	3.8E
12 Su	0145	0529	3.2F
	1340	2151	3.8E
13 M	0239	0624	3.1F
	1435	2240	3.6E
14 Tu	0336	0721	2.9F
	1509	2335	3.2E
15 W	0436	0813	2.6F
	1513		
16 Th		0046	2.6E
	0537	0904	2.2F
	1445	1805	0.7E
		2011	0.5E
17 F		0215	1.9E
	0637	0947	1.8F
	1424	1756	1.0E
		2150	*
18 Sa		0350	1.3E
	0737	1028	1.3F
	1405	1751	1.4E
	2137	2321	0.5F
19 Su	0219	0526	0.8E
	0838	1103	0.9F
	1342	1808	2.0E
	2204		
20 M		0041	1.1F
	0457	0716	0.4E
	0940	1137	0.6F
	1327	1831	2.5E
	2239		
21 Tu		0150	1.7F
	0653	0901	0.3E
	1047	1212	0.3F
	1324	1900	2.8E
	2317		
22 W		0239	2.2F
		1021	*
		1245	*
		1935	3.1E
	2355		
23 Th		0322	2.4F
		1128	*
		1312	*
		2007	3.2E
24 F	0033	0403	2.5F
		1243	*
		1302	*
		2042	3.2E
25 Sa	0112	0439	2.5F
	1200	2111	3.1E
26 Su	0152	0519	2.4F
	1300	2146	3.0E
27 M	0234	0602	2.3F
	1351	2221	2.8E
28 Tu	0316	0642	2.1F
	1429	2302	2.6E
29 W	0400	0726	1.9F
	1451	2331	2.2E
30 Th	0445	0809	1.7F
	1443		

Time meridian 90° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.
If three consecutive entries are marked (E) the middle one is not a true maximum but an intermediate value to show the current pattern.

F-Flood, Dir. 300° True E-Ebb, Dir. 100° True

JULY

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0012	1.8E
F	0532	0852	1.5F
	1416	1820	0.6E
		2021	0.5E
2		0142	1.3E
Sa	0623	0930	1.2F
	1350	1806	0.8E
		2144	*
3		0320	0.8E
Su	0721	1012	0.9F
	1306	1712	1.1E
	2129	2301	0.4F
4	0131	0457	0.5E
M	0833	1047	0.5F
	1237	1730	1.6E
	2140		
5		0009	1.0F
Tu	0446	0656	0.3E
		1121	*
		1748	2.1E
	2205		
6		0106	1.7F
W	0637	0924	0.3E
		1150	*
		1820	2.6E
	2238		
7		0201	2.3F
Th	0813	1053	0.3E
		1211	*
		1852	3.2E
	2318		
8		0250	2.8F
F	0950	1935	3.6E
9	0003	0339	3.1F
Sa	1129	2016	4.0E
10	0051	0427	3.3F
Su	1308	2105	4.1E
11	0142	0518	3.2F
M	1434	2154	3.9E
12	0234	0604	2.9F
Tu	1534	2248	3.5E
13	0327	0650	2.6F
W	1508	2345	2.9E
14	0421	0733	2.1F
Th	1311	1557	0.3E
		1837	*
15		0046	2.1E
F	0515	0814	1.6F
	1238	1538	0.7E
		2009	*

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
16		0209	1.2E
Sa	0611	0851	1.1F
	1210	1559	1.3E
	2005	2150	0.5F
17	0058	0352	0.5E
Su	0715	0932	0.7F
	1145	1642	1.8E
	2049	2341	1.0F
18		0650	*
M		1012	0.3F
	1137	1714	2.3E
	2133		
19		0117	1.6F
Tu		0820	*
		1054	*
		1758	2.6E
	2216		
20		0206	2.0F
W	0745	0924	0.3E
		1137	*
		1835	2.9E
	2259		
21		0249	2.3F
Th	0840	1021	0.3E
		1218	*
		1915	3.0E
	2340		
22		0324	2.4F
F		1118	*
		1300	*
		1953	3.1E
23	0021	0353	2.4F
Sa		1158	*
		1338	*
		2033	3.1E
24	0101	0424	2.4F
Su		1242	*
		1415	*
		2105	3.1E
25	0141	0454	2.2F
M		1344	*
		1444	*
		2142	3.0E
26	0219	0528	2.1F
Tu	1506	2215	2.7E
27	0257	0603	1.9F
W	1505	2250	2.4E
28	0334	0641	1.6F
Th	1446	2318	2.0E
29	0413	0715	1.3F
F		1410	*
		1512	*
		1648	*
		1833	*
30		0000	1.5E
Sa	0456	0756	1.0F
	1136	1430	0.4E
		1956	*
31		0109	0.9E
Su	0551	0836	0.6F
	1046	1459	0.8E
	1944	2118	0.3F
	2312		

AUGUST

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
1		0309	0.4E
M		0912	*
		1542	1.3E
	2012	2242	0.8F
2		0739	*
Tu		0947	*
		1620	1.8E
	2048	2356	1.5F
3	0607	0900	0.4E
W		1022	0.3E
		1703	2.3E
	2130		
4		0054	2.1F
Th	0721	1002	0.4E
		1057	0.4E
		1750	2.9E
	2215		
5		0149	2.6F
F	0830	1835	3.4E
	2304		
6		0236	3.0F
Sa	0949	1924	3.8E
	2353		
7		0323	3.1F
Su		1214	*
		1238	*
		2016	4.0E
8	0044	0407	3.0F
M		1226	*
		1400	0.3F
	1521	2105	3.9E
9	0134	0447	2.8F
Tu		1144	*
		1503	0.4F
	1636	2154	3.6E
10	0224	0527	2.3F
W		1151	*
		1612	0.5F
	1748	2250	2.9E
11	0313	0605	1.8F
Th	1041	1220	0.3E
	1437	1724	0.6F
	1906	2346	2.1E
12	0404	0640	1.3F
F	1009	1255	0.8E
	1624	1840	0.6F
	2041		
13		0055	1.3E
Sa	0459	0715	0.8F
	0938	1340	1.2E
	1749	2003	0.8F
	2336		
14		0221	0.5E
Su	0612	0755	0.3F
	0922	1432	1.6E
	1901	2139	1.0F
15		0609	*
M		0837	*
		1532	2.0E
	2003		

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots
16		0003	1.5F
Tu	0530	0730	0.3E
		0926	*
		1629	2.3E
	2058		
17		0106	1.9F
W	0626	0831	0.4E
		1015	0.3E
		1727	2.5E
	2150		
18		0155	2.1F
Th	0711	0915	0.5E
		1117	0.3E
		1818	2.7E
	2237		
19		0230	2.2F
F	0753	0950	0.4E
		1206	*
		1902	2.8E
	2322		
20		0303	2.2F
Sa	0834	1025	0.3E
		1255	*
		1942	2.9E
21	0004	0324	2.2F
Su		1054	*
		1338	*
		2023	2.9E
22	0044	0351	2.0F
M		1109	*
		1415	0.3F
	1534	2058	2.9E
23	0122	0417	1.9F
Tu		1057	*
		1456	0.4F
	1624	2134	2.7E
24	0158	0449	1.7F
W		1058	*
		1539	0.5F
	1713	2204	2.4E
25	0234	0515	1.4F
Th		1119	*
		1624	0.5F
	1804	2240	2.0E
26	0311	0547	1.1F
F	0906	1139	0.4E
	1405	1720	0.5F
	1904	2321	1.5E
27	0353	0619	0.7F
Sa	0832	1157	0.7E
	1514	1826	0.5F
	2020		
28		0015	0.9E
Su	0459	0649	0.3F
	0812	1212	1.0E
	1632	1938	0.7F
	2221		
29		0149	0.4E
M		0724	*
		1236	1.3E
	1749	2059	1.0F
30	0309	1339	1.6E
Tu	1858	2220	1.4F
31	0506	1507	2.0E
W	2001	2339	1.9F

Time meridian 90° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.
If three consecutive entries are marked (E) the middle one is not a true maximum but an intermediate value to show the current pattern.

GALVESTON BAY ENTRANCE (between jetties), TEXAS, 1983

F-Flood, Dir. 300° True E-Ebb, Dir. 100° True

SEPTEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1	0604	1624	2.5E	16		0123	2.0F
Th	2059			F	0615	0841	0.7E
						1105	0.4E
						1756	2.4E
					2209		
2		0041	2.4F	17		0152	2.0F
F	0658	1724	2.9E	Sa	0645	0909	0.6E
	2155					1201	*
						1847	2.5E
					2256		
3		0132	2.7F	18		0216	2.0F
Sa	0749	1006	0.4E	Su	0706	0928	0.5E
		1142	0.3E			1246	*
		1827	3.3E			1929	2.6E
	2249				2338		
4		0215	2.8F	19		0236	1.8F
Su		1017	*	M	0720	0927	0.4E
		1237	*		1145	1332	0.5F
		1918	3.5E		1505	2005	2.5E
	2340						
5		0255	2.7F	20	0018	0303	1.7F
M		0954	*	Tu	0726	0922	0.5E
		1332	0.4F		1158	1412	0.7F
	1453	2011	3.5E		1604	2042	2.4E
6	0030	0333	2.5F	21	0055	0329	1.4F
Tu		0954	*	W	0721	0930	0.6E
		1423	0.8F		1215	1456	0.9F
	1614	2100	3.2E		1700	2122	2.1E
7	0119	0408	2.0F	22	0133	0355	1.2F
W	0825	1011	0.5E	Th	0659	0945	0.8E
	1218	1523	1.1F		1238	1542	1.0F
	1731	2155	2.7E		1758	2157	1.7E
8	0208	0440	1.5F	23	0212	0424	0.8F
Th	0801	1037	0.9E	F	0634	1005	1.0E
	1319	1624	1.2F		1310	1630	1.1F
	1851	2247	2.0E		1901	2240	1.3E
9	0258	0512	1.0F	24	0301	0451	0.4F
F	0733	1106	1.3E	Sa	0618	1012	1.3E
	1426	1731	1.3F		1349	1719	1.2F
	2026	2355	1.2E		2019	2335	0.8E
10	0357	0541	0.5F	25		0509	*
Sa	0715	1141	1.6E	Su		1022	1.6E
	1536	1836	1.4F		1437	1823	1.4F
	2248				2231		
11		0115	0.5E	26		0057	0.3E
Su		0614	*	M		0256	*
		1224	1.8E			1042	1.9E
	1650	1951	1.4F		1536	1926	1.5F
12	0209	0527	0.3E	27	0222	1114	2.1E
M		0643	0.3E	Tu	1648	2042	1.7F
		1314	2.0E				
	1804	2125	1.5F				
13	0408	1427	2.0E	28	0359	1212	2.2E
Tu	1915	2338	1.8F	W	1809	2205	2.0F
14	0500	0742	0.7E	29	0451	1400	2.3E
W		0840	0.6E	Th	1925	2320	2.3F
		1544	2.1E				
	2020						
15		0040	2.0F	30	0535	1556	2.5E
Th	0541	0812	0.7E	F	2032		
		1003	0.6E				
		1656	2.2E				
	2118						

OCTOBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0015	2.5F	16		0053	1.8F
Sa	0611	0903	0.7E	Su	0531	0825	0.8E
		1040	0.6E			1146	*
		1713	2.8E			1821	2.0E
	2133				2219		
2		0100	2.5F	17		0116	1.7F
Su	0632	0904	0.5E	M	0537	0825	0.8E
		1145	*		1114	1237	0.4F
		1815	2.9E		1407	1903	2.0E
	2229				2303		
3		0141	2.4F	18		0143	1.5F
M	0635	0846	0.5E	Tu	0537	0820	0.9E
	1113	1245	0.4F		1124	1323	0.7F
	1404	1910	2.9E		1501	1947	1.9E
	2321				2344		
4		0213	2.1F	19		0209	1.3F
Tu	0630	0835	0.7E	W	0525	0821	1.1E
	1122	1342	0.9F		1142	1409	1.1F
	1543	2009	2.6E		1642	2028	1.7E
5	0011	0245	1.7F	20	0025	0236	1.0F
W	0614	0854	1.1E	Th	0502	0836	1.4E
	1152	1439	1.4F		1203	1455	1.4F
	1712	2103	2.2E		1752	2114	1.4E
6	0100	0317	1.2F	21	0109	0302	0.6F
Th	0551	0918	1.6E	F	0446	0852	1.7E
	1233	1532	1.7F		1228	1537	1.7F
	1841	2158	1.6E		1906	2200	1.0E
7	0151	0343	0.7F	22		0323	*
F	0533	0939	2.0E	Sa		0906	2.0E
	1319	1631	1.9F		1259	1627	1.9F
	2020	2301	1.0E		2036	2257	0.6E
8	0255	0411	0.3F	23		0339	*
Sa	0517	1013	2.3E	Su		0922	2.3E
	1410	1728	2.0F		1336	1715	2.0F
	2219						
9		0017	0.4E	24		0019	*
Su		0432	*	M		0108	*
		1043	2.4E			0934	2.6E
	1505	1829	2.0F		1422	1812	2.1F
10	0105	1112	2.4E	25	0145	1005	2.7E
M	1607	1937	1.9F	Tu	1518	1921	2.2F
11	0253	1157	2.3E	26	0302	1046	2.8E
Tu	1716	2101	1.9F	W	1625	2029	2.3F
12	0344	1306	2.1E	27	0350	1146	2.7E
W	1828	2239	1.9F	Th	1741	2144	2.4F
13	0423	1448	1.9E	28	0428	1333	2.5E
Th	1937	2353	1.9F	F	1856	2249	2.4F
14	0453	0747	0.9E	29	0454	0814	0.9E
F		0940	0.7E	Sa		0914	0.9E
		1617	1.9E			1533	2.4E
	2038				2005	2340	2.3F
15		0030	1.9F	30	0501	0804	0.8E
Sa	0516	0809	0.9E	Su		1042	0.4E
		1051	0.4E			1655	2.3E
		1727	2.0E		2107		
	2132						
				31		0021	2.1F
				M	0457	0752	0.9E
						1150	*
						1809	2.1E
					2204		

Time meridian 90° W. 0000 is midnight. 1200 is noon.
* Current weak and variable.
If three consecutive entries are marked (E) the middle one is not a true maximum but an intermediate value to show the current pattern.

F-Flood, Dir. 300° True E-Ebb, Dir. 100° True

NOVEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0056	1.8F	16		0047	1.1F
Tu	0447	0739	1.2E	W	0352	0721	1.4E
	1054	1253	0.8F		1102	1313	1.0F
	1511	1912	1.9E		1617	1933	1.2E
	2256				2309		
2		0125	1.4F	17		0113	0.8F
W	0428	0748	1.7E	Th	0328	0736	1.8E
	1118	1353	1.4F		1121	1401	1.5F
	1702	2014	1.5E		1744	2030	0.9E
	2348						
3		0152	1.0F	18	0000	0142	0.5F
Th	0406	0809	2.2E	F	0314	0752	2.1E
	1152	1448	1.9F		1145	1447	1.9F
	1840	2112	1.0E		1906	2125	0.7E
4	0041	0221	0.5F	19		0209	*
F	0354	0838	2.6E	Sa		0812	2.5E
	1230	1537	2.3F		1214	1533	2.3F
	2015	2226	0.6E		2035	2228	0.4E
5		0249	*	20		0225	*
Sa		0904	2.9E	Su		0830	2.8E
	1312	1632	2.5F		1248	1622	2.5F
	2204				2228		
6		0042	0.3E	21		0853	3.1E
Su		0306	*	M	1329	1715	2.7F
		0936	3.0E				
	1355	1723	2.5F				
7	0027	0958	2.9E	22	0104	0922	3.3E
M	1444	1817	2.4F	Tu	1417	1806	2.7F
8	0152	1029	2.8E	23	0214	1003	3.4E
Tu	1538	1921	2.2F	W	1512	1909	2.7F
9	0242	1058	2.5E	24	0303	1050	3.2E
W	1638	2027	2.1F	Th	1615	2013	2.6F
10	0320	1151	2.2E	25	0339	1153	2.9E
Th	1744	2139	1.9F	F	1722	2113	2.5F
11	0349	1349	1.9E	26	0356	1329	2.4E
F	1849	2236	1.8F	Sa	1830	2207	2.2F
12	0408	0716	0.9E	27	0347	0704	0.8E
Sa		0912	0.8E	Su		0911	0.7E
		1524	1.7E			1515	2.0E
	1950	2321	1.7F		1935	2253	1.9F
13	0416	0731	0.9E	28	0332	0651	1.0E
Su		1026	0.5E	M		1042	*
		1636	1.6E			1648	1.5E
	2045	2346	1.6F		2037	2328	1.5F
14	0416	0742	1.0E	29	0315	0639	1.4E
M		1132	*	Tu	1014	1202	0.6F
		1743	1.5E		1435	1806	1.2E
	2135				2136		
15		0018	1.4F	30		0003	1.1F
Tu	0410	0727	1.1E	W	0252	0648	1.9E
	1051	1224	0.5F		1036	1307	1.3F
	1430	1839	1.3E		1655	1933	0.8E
	2222				2233		

DECEMBER

Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.	Day	Slack Water Time	Maximum Current Time	Maximum Current Vel.
	h.m.	h.m.	knots		h.m.	h.m.	knots
1		0035	0.7F	16		0027	0.3F
Th	0233	0709	2.5E	F	0145	0651	2.2E
	1108	1407	1.9F		1056	1355	1.8F
	1839	2051	0.5E		1852	2107	0.4E
	2332						
2		0107	0.4F	17		0054	*
F	0226	0738	2.9E	Sa		0715	2.7E
	1145	1457	2.4F		1125	1439	2.3F
	2017	2225	0.3E		2020	2303	0.3E
3		0135	*	18		0116	*
Sa		0807	3.2E	Su		0744	3.1E
	1224	1545	2.6F		1200	1528	2.7F
					2208		
4		0001	*	19		0813	3.5E
Su		0157	*	M	1240	1617	3.0F
		0839	3.3E				
	1304	1629	2.7F				
	2343						
5		0914	3.3E	20	0013	0850	3.7E
M	1346	1718	2.7F	Tu	1325	1706	3.1F
6	0056	0945	3.2E	21	0135	0929	3.8E
Tu	1430	1804	2.5F	W	1415	1758	3.0F
7	0148	1016	2.9E	22	0232	1013	3.7E
W	1518	1855	2.3F	Th	1508	1850	2.8F
8	0230	1052	2.6E	23	0312	1106	3.3E
Th	1609	1948	2.1F	F	1605	1942	2.5F
9	0301	1133	2.3E	24	0322	1208	2.7E
F	1703	2037	1.9F	Sa	1703	2028	2.1F
10	0318	1238	1.9E	25	0238	0556	0.5E
Sa	1800	2123	1.7F	Su		0720	0.5E
						1330	2.0E
					1803	2116	1.7F
11	0317	0647	0.8E	26	0201	0537	0.8E
Su		0832	0.7E	M		0911	*
		1420	1.5E			1501	1.3E
	1856	2206	1.4F		1905	2154	1.3F
12	0307	0654	0.9E	27	0135	0524	1.3E
M		0952	0.4E	Tu	0912	1050	0.4F
		1547	1.2E		1338	1652	0.7E
	1953	2248	1.2F		2011	2236	0.8F
13	0252	0645	1.0E	28	0106	0537	1.9E
Tu		1109	*	W	0939	1224	1.1F
		1710	0.9E		1643	1907	0.4E
	2050	2323	0.9F		2120	2311	0.5F
14	0225	0621	1.4E	29	0053	0606	2.5E
W	1017	1212	0.6F	Th	1016	1329	1.8F
	1532	1827	0.7E		1844	2046	0.3E
	2148	2353	0.6F			2346	*
15	0157	0628	1.8E	30		0638	2.9E
Th	1032	1306	1.3F	F	1055	1424	2.3F
	1723	1939	0.5E		2013	2201	0.3E
	2252						
				31		0022	*
				Sa		0715	3.2E
					1135	1506	2.6F
						2307	*

Time meridian 90° W. 0000 is midnight, 1200 is noon.
* Current weak and variable.
If three consecutive entries are marked (E) the middle one is not a true maximum but an intermediate value to show the current pattern.

VIEQUES PASSAGE, PUERTO RICO, 1983

F-Flood, Dir. 250° True E-Ebb, Dir. 055° True

JANUARY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1		0036	0.6F
Sa	0329	0610	0.5E
	0843	1214	0.9F
	1526	1859	1.1E
	2241		
2		0125	0.7F
Su	0427	0710	0.5E
	0949	1312	0.8F
	1617	1948	1.0E
	2324		
3		0216	0.7F
M	0524	0810	0.6E
	1058	1407	0.7F
	1708	2037	1.0E
4	0007	0307	0.7F
Tu	0620	0910	0.6E
	1209	1508	0.6F
	1800	2130	0.9E
5	0049	0359	0.8F
W	0717	1013	0.6E
	1324	1612	0.5F
	1853	2217	0.8E
6	0131	0448	0.8F
Th	0812	1117	0.7E
	1441	1713	0.4F
	1947	2307	0.6E
7	0212	0539	0.8F
F	0905	1216	0.7E
	1557	1817	0.3F
	2045	2358	0.5E
8	0254	0630	0.8F
Sa	0957	1317	0.7E
	1709	1923	0.3F
	2145		
9		0051	0.5E
Su	0335	0718	0.8F
	1045	1414	0.8E
	1813	2025	0.3F
	2247		
10		0140	0.4E
M	0416	0804	0.8F
	1130	1502	0.8E
	1908	2120	0.3F
	2350		
11		0235	0.3E
Tu	0458	0848	0.8F
	1212	1549	0.8E
	1956	2212	0.3F
12	0049	0322	0.3E
W	0541	0931	0.7F
	1252	1632	0.9E
	2036	2259	0.3F
13	0144	0411	0.3E
Th	0626	1013	0.7F
	1330	1711	0.9E
	2113	2342	0.4F
14	0234	0457	0.3E
F	0712	1054	0.7F
	1407	1748	0.9E
	2146		
15		0021	0.4F
Sa	0320	0543	0.3E
	0800	1135	0.6F
	1444	1823	0.9E
	2217		
16		0100	0.5F
Su	0402	0629	0.3E
	0851	1218	0.6F
	1521	1901	0.8E
	2247		
17		0135	0.5F
M	0441	0713	0.3E
	0944	1301	0.6F
	1559	1936	0.8E
	2316		
18		0208	0.5F
Tu	0520	0802	0.4E
	1041	1348	0.5F
	1639	2015	0.7E
	2343		
19		0245	0.6F
W	0559	0847	0.4E
	1142	1434	0.4F
	1719	2051	0.7E
20	0012	0321	0.6F
Th	0640	0939	0.5E
	1248	1527	0.4F
	1803	2131	0.6E
21	0042	0403	0.7F
F	0724	1030	0.6E
	1357	1622	0.3F
	1851	2215	0.6E
22	0116	0444	0.7F
Sa	0812	1124	0.7E
	1507	1723	0.3F
	1945	2302	0.5E
23	0154	0533	0.8F
Su	0902	1224	0.7E
	1617	1826	0.3F
	2045	2353	0.5E
24	0239	0624	0.8F
M	0954	1321	0.6E
	1721	1932	0.3F
	2151		
25		0054	0.5E
Tu	0330	0719	0.9F
	1048	1418	0.9E
	1819	2034	0.3F
	2259		
26		0156	0.5E
W	0427	0815	0.9F
	1142	1513	1.0E
	1911	2132	0.4F
27	0006	0253	0.5E
Th	0529	0912	0.9F
	1236	1607	1.0E
	1959	2228	0.5F
28	0110	0358	0.5E
F	0633	1013	0.9F
	1329	1659	1.1E
	2044	2322	0.6F
29	0211	0459	0.6E
Sa	0739	1108	0.9F
	1421	1748	1.0E
	2127		
30		0011	0.6F
Su	0308	0559	0.6E
	0844	1204	0.9F
	1512	1838	1.0E
	2209		
31		0100	0.7F
M	0404	0659	0.7E
	0950	1300	0.8F
	1602	1925	1.0E
	2250		

FEBRUARY

Day	Slack Water Time h.m.	Maximum Current Time h.m.	Maximum Current Vel. knots
1		0148	0.8F
Tu	0458	0754	0.7E
	1056	1357	0.7F
	1651	2014	0.9E
	2330		
2		0237	0.8F
W	0551	0851	0.7E
	1203	1452	0.6F
	1740	2059	0.8E
3	0011	0326	0.8F
Th	0644	0951	0.7E
	1312	1548	0.5F
	1829	2146	0.7E
4	0051	0415	0.8F
F	0737	1048	0.7E
	1422	1647	0.4F
	1921	2234	0.6E
5	0132	0502	0.8F
Sa	0828	1145	0.7E
	1533	1748	0.3F
	2016	2324	0.5E
6	0213	0551	0.8F
Su	0919	1243	0.7E
	1640	1852	0.3F
	2115		
7		0018	0.4E
M	0257	0639	0.7F
	1007	1336	0.7E
	1741	1953	0.3F
	2219		
8		0111	0.3E
Tu	0343	0730	0.7F
	1054	1429	0.8E
	1833	2050	0.3F
	2323		
9		0203	0.3E
W	0431	0819	0.7F
	1139	1516	0.8E
	1918	2139	0.3F
10	0023	0257	0.3E
Th	0522	0904	0.7F
	1221	1557	0.8E
	1957	2226	0.4F
11	0116	0351	0.3E
F	0613	0953	0.6F
	1303	1640	0.8E
	2032	2309	0.4F
12	0202	0437	0.3E
Sa	0706	1035	0.6F
	1343	1720	0.8E
	2104	2345	0.5F
13	0243	0523	0.4E
Su	0758	1119	0.6F
	1422	1756	0.8E
	2133		
14		0020	0.5F
M	0321	0606	0.4E
	0850	1202	0.6F
	1502	1832	0.8E
	2201		
15		0056	0.5F
Tu	0358	0650	0.5E
	0943	1247	0.5F
	1541	1906	0.7E
	2228		
16		0127	0.6F
W	0435	0736	0.5E
	1037	1332	0.5F
	1620	1941	0.7E
	2255		
17		0202	0.6F
Th	0514	0819	0.6E
	1134	1417	0.5F
	1701	2017	0.6E
	2324		
18		0241	0.7F
F	0557	0908	0.7E
	1234	1508	0.4F
	1744	2059	0.6E
	2357		
19		0324	0.7F
Sa	0643	0959	0.7E
	1338	1600	0.4F
	1832	2142	0.5E
20	0035	0409	0.8F
Su	0734	1052	0.7E
	1443	1701	0.3F
	1926	2231	0.5E
21	0120	0502	0.8F
M	0828	1153	0.8E
	1548	1800	0.3F
	2027	2333	0.5E
22	0213	0558	0.8F
Tu	0925	1255	0.8E
	1650	1909	0.3F
	2135		
23		0036	0.5E
W	0313	0701	0.8F
	1023	1353	0.9E
	1746	2010	0.4F
	2244		
24		0139	0.5E
Th	0420	0758	0.8F
	1122	1450	0.9E
	1837	2107	0.5F
	2351		
25		0247	0.5E
F	0529	0901	0.8F
	1219	1545	0.9E
	1924	2204	0.5F
26	0053	0350	0.6E
Sa	0638	1001	0.8F
	1314	1637	0.9E
	2008	2255	0.6F
27	0150	0450	0.7E
Su	0745	1059	0.8F
	1407	1725	0.9E
	2050	2345	0.7F
28	0246	0545	0.7E
M	0849	1154	0.8F
	1457	1813	0.9E
	2130		

Time meridian 60° W. 0000 is midnight. 1200 is noon.

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS, 1983

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood	Maximum Flood		Minimum before Ebb	Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	BAY OF FUNDY Time meridian, 60°W				on BAY OF FUNDY ENTRANCE, p.4													
1	Brazil Rock, 6 miles east of.....		43 22	65 18	-2 02	-2 00	-1 56	-2 00	0.4	0.4	0.0	- -	1.0	275	0.0	- -	1.0	050
6	Cape Sable, 3 miles south of.....		43 20	65 38	-3 02	-2 10	-1 21	-2 10	1.0	0.8	0.0	- -	2.2	275	0.0	- -	2.0	095
11	Cape Sable, 12 miles south of.....		43 11	65 37	-1 12	-1 00	-0 46	-1 00	0.7	0.7	0.0	- -	1.7	285	0.0	- -	1.6	090
16	Blonde Rock, 5 miles south of.....		43 15	65 59	-1 02	-0 50	-0 36	-0 50	0.9	0.8	0.0	- -	2.0	310	0.0	- -	2.0	125
21	Seal Island, 13 miles southwest of.....		43 16	66 15	-0 17	+0 10	+0 39	+0 10	1.1	0.7	0.0	- -	2.6	325	0.0	- -	1.6	140
26	Cape Fourchu, 17 miles southwest of.....		43 34	66 24	+0 38	+0 45	+0 44	+0 45	0.5	0.5	0.0	- -	1.2	355	0.0	- -	1.2	145
31	Cape Fourchu, 4 miles west of.....		43 47	66 15	-0 12	0 00	+0 09	0 00	0.9	0.7	0.0	- -	2.0	000	0.0	- -	1.7	175
36	Lurcher Shoal, 6 miles east of.....		43 52	66 21	+0 08	+0 30	+0 39	+0 30	0.9	0.8	0.0	- -	2.0	355	0.0	- -	1.8	175
41	Lurcher Shoal, 10 miles west of.....		43 46	66 42	+0 23	+0 30	-0 34	+0 30	0.6	0.7	0.0	- -	1.4	000	0.0	- -	1.6	160
46	Lurcher Shoal, 10 miles northwest of....		43 59	66 37	-0 02	+0 30	+0 49	+0 30	0.8	0.5	0.0	- -	1.8	005	0.0	- -	1.2	175
51	Brier Island, 5 miles west of.....		44 13	66 30	+0 43	+0 50	+0 54	+0 50	1.2	1.0	0.0	- -	2.7	005	0.0	- -	2.5	185
56	Brier Island, 15 miles west of.....		44 17	66 44	-0 42	-0 15	+0 14	-0 15	0.6	0.5	0.0	- -	1.4	060	0.0	- -	1.2	250
61	Garnet Rock, 5 miles southeast of.....		44 29	66 41	+0 38	+0 30	+0 09	+0 30	1.1	1.6	0.0	- -	2.6	040	0.0	- -	3.9	230
66	Boars Head, 10 miles northwest of.....		44 31	66 23	+0 48	+0 55	+0 59	+0 55	0.8	0.8	0.0	- -	1.9	020	0.0	- -	2.0	205
71	Prim Point, 20 miles west of.....		44 44	66 15	+0 38	+0 45	+0 54	+0 45	0.7	0.6	0.0	- -	1.6	040	0.0	- -	1.4	235
76	Cape Spencer, 14 miles south of.....		44 58	65 57	+0 51	+0 55	+0 57	+0 55	0.7	0.7	0.0	- -	1.7	050	0.0	- -	1.6	245
81	BAY OF FUNDY ENTRANCE.....		44 45.2	66 55.9	Daily predictions						0.0	- -	2.3	032	0.0	- -	2.4	212
	MAINE COAST Time meridian, 75°W																	
86	Eastport, Friar Roads.....		44 54	66 59	0 00	0 00	0 00	0 00	1.2	1.2	0.0	- -	3.0	210	0.0	- -	3.0	040
91	Western Passage, off Kendall Head.....		44 55.9	67 00.0	+0 27	+0 11	+0 13	+0 40	1.4	1.3	0.0	- -	3.2	319	0.0	- -	3.1	142
96	Western Passage, off Frost Ledge.....		44 57.9	67 01.9	+0 33	+0 04	-0 16	+0 15	0.9	0.7	0.0	- -	2.1	330	0.0	- -	1.7	150
101	Pond Point, 7.6 miles SSE of.....		44 20.1	67 30.2	+0 13	-0 20	-1 33	-0 05	0.2	0.5	0.0	- -	0.5	015	0.0	- -	1.2	215
106	Mocsabec Reach, east end.....		44 31.71	67 34.35	-2 45	-3 08	-3 13	-3 39	0.4	0.4	0.0	- -	1.0	110	0.0	- -	1.0	258
111	Mocsabec Reach, west end.....		44 31.25	67 39.00	-1 43	-1 43	-2 00	-1 44	0.4	0.5	0.0	- -	1.0	092	0.0	- -	1.2	253
116	Bar Harbor, 1.2 miles east of (1).....		44 23.0	68 10.0	- - -	+0 30	- - -	+0 48	0.1	0.3	0.0	- -	0.2	328	0.0	- -	0.7	148
121	Casco Passage, east end, Blue Hill Bay..		44 11.7	68 27.9	-1 49	-1 44	-1 02	-1 58	0.3	0.3	0.0	- -	0.7	086	0.0	- -	0.7	284
126	Hat Island, SE of, Jericho Bay.....		44 08.0	68 29.7	-1 02	-0 35	-0 50	-1 20	0.4	0.5	0.0	- -	0.9	318	0.0	- -	1.3	124
					on PORTSMOUTH HARBOR ENTRANCE, p.10													
136	Isle Au Haut, 0.8 mi. east of Richs Pt..		44 05.0	68 35.0	-2 13	-1 47	-2 09	-1 47	1.2	0.8	0.0	- -	1.4	336	0.0	- -	1.5	139
146	West Penobscot Bay, off Monroe Island...		44 04.5	69 00.6	-1 09	-1 24	-2 20	-1 12	0.2	0.3	0.0	- -	0.3	006	0.0	- -	0.6	159
156	Muscongus Sound.....		43 56.5	69 26.9	Current weak and variable													
166	Damariscotta River, off Cavis Point.....		43 52.5	69 35.0	-0 49	-0 44	-1 24	-1 18	0.5	0.6	0.0	- -	0.6	350	0.0	- -	1.0	215
176	Sheepscot River, off Barter Island.....		43 54.0	69 41.5	-0 48	-1 02	-1 15	-0 33	0.7	0.6	0.0	- -	0.8	005	0.0	- -	1.1	200
186	Lowe Point, NE of, Sasanoa River.....		43 51.1	69 43.3	-0 48	+0 09	-0 46	-0 27	1.4	1.0	0.0	- -	1.7	327	0.0	- -	1.8	152
196	Lower Hell Gate, Knubble Bay (2).....		43 52.6	69 43.8	-0 23	+0 37	-0 46	+0 06	2.5	1.9	0.0	- -	3.0	290	0.0	- -	3.5	155
206	Upper Hell Gate, Sasanoa River.....		43 53.7	69 46.3	+3 31	+2 48	+1 20	+2 03	0.8	0.5	0.0	- -	1.0	307	0.0	- -	0.8	142
	KENNEBEC RIVER																	
211	Hunniwell Point, northeast of.....		43 45.4	69 46.9	+0 05	+0 12	+0 05	+0 24	2.0	1.6	0.0	- -	2.4	332	0.0	- -	2.9	151
216	Bald Head, 0.3 mile southwest of.....		43 48.1	69 47.6	+0 23	+0 28	-0 04	+0 23	1.3	1.3	0.0	- -	1.6	321	0.0	- -	2.3	153

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS, 1983

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	Maximum Flood	Minimum before Ebb	Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	KENNEBEC RIVER Time meridian, 75°W				on PORTSMOUTH HARBOR ENTRANCE, p.10									
221	Bluff Head, west of		43 51.3	69 47.8	+0 33	+0 53	+0 26	+0 24	1.9	1.9	0.0 - -	2.3 014	0.0 - -	3.4 184
226	Fiddler Ledge, north of		43 52.8	69 47.8	+0 47	+1 12	+0 22	+0 48	1.6	1.4	0.0 - -	1.9 267	0.0 - -	2.6 113
231	Doubling Point, south of		43 52.8	69 48.4	+0 28	+0 49	+0 23	+0 53	2.2	1.7	0.0 - -	2.6 300	0.0 - -	3.0 127
236	Lincoln Ledge, east of		43 53.8	69 48.6	+0 32	+0 45	+0 23	+0 34	1.6	1.6	0.0 - -	1.9 359	0.0 - -	2.8 174
241	Bath, 0.2 mile south of bridge <3>		43 54.5	69 48.5	+0 29	+1 28	+0 43	+0 23	0.8	0.8	0.0 - -	1.0 003	0.0 - -	1.5 177
	CASCO BAY													
251	Broad Sound, west of Eagle Island		43 42.7	70 03.8	-1 16	-1 05	-1 27	-0 59	0.8	0.7	0.0 - -	0.9 010	0.0 - -	1.3 168
261	Hussey Sound, SW of Overset Island	15	43 40.27	70 10.52	-1 28	-1 18	-0 58	-1 30	0.9	0.6	0.0 - -	1.1 316	0.3 189	1.2 153
	...do	25	43 40.27	70 10.52	-1 39	-1 19	-1 06	-1 32	0.9	0.6	0.0 - -	1.1 310	0.3 211	1.1 155
	...do	40	43 40.27	70 10.52	-1 58	-1 16	-1 05	-1 32	0.9	0.5	0.1 228	1.1 314	0.3 200	1.0 154
271	Hussey Sound, SE of Pumpkin Nob	40	43 40.45	70 10.78	-2 21	-1 29	-1 32	-1 14	1.0	0.5	0.1 068	1.2 346	0.1 066	0.9 168
281	Hussey Sound, east of Crow Island	40	43 41.33	70 10.79	-2 18	-0 42	-0 55	-1 24	0.7	0.4	0.1 114	0.9 016	0.0 - -	0.8 197
291	Portland Hbr. ent., SW of Cushing I.		43 37.9	70 12.7	-1 43	-1 11	-1 20	-0 58	0.8	0.6	0.0 - -	1.0 322	0.0 - -	1.1 154
301	Diamond I. Ledge, midchannel SW. of Portland Breakwater Light		43 39.6	70 13.5	-1 26	-1 12	-1 11	-1 06	0.8	0.5	0.0 - -	0.9 300	0.0 - -	0.9 150
311	0.3 mi. NW of <1> <4>		43 39.5	70 14.5	- - -	-0 47	- - -	-1 07	0.3	0.3	0.0 - -	0.4	0.0 - -	0.5 048
321	Grand Trunk Wharves, off ends <1>		43 39.5	70 14.7	- - -	-1 45	- - -	-1 50	0.5	0.2	0.0 - -	0.6 250	0.0 - -	0.4 040
331	Portland Bridge, center of draw		43 38.7	70 15.5	-1 06	-0 17	-0 38	-0 15	0.8	0.6	0.0 - -	0.9 225	0.0 - -	1.0 050
	MAINE COAST-Continued													
341	Cape Elizabeth		43 34	70 11	-1 35	-1 35	-1 35	-1 35	0.2	0.2	0.0 - -	0.3 340	0.0 - -	0.3 160
351	Cape Porpoise		43 22	70 24	-0 55	-0 55	-0 55	-0 55	0.2	0.2	0.0 - -	0.3 035	0.0 - -	0.3 215
361	Cape Neddick		43 10	70 35	-0 20	-0 20	-0 20	-0 20	0.3	0.3	0.0 - -	0.4 025	0.0 - -	0.4 205
371	York Harbor entrance, 3 miles south of		43 08	70 33	-0 15	-0 15	-0 15	-0 15	0.3	0.3	0.0 - -	0.4 025	0.0 - -	0.4 205
	PORTSMOUTH HARBOR													
381	Kitts Rocks, 0.2 mile west of		43 03	70 42	0 00	0 00	0 00	0 00	0.7	0.9	0.0 - -	0.8 325	0.0 - -	1.6 175
391	Little Harbor entrance		43 03	70 43	-1 00	-1 00	-1 00	-1 00	0.6	0.6	0.0 - -	0.7 310	0.0 - -	1.1 130
401	PORTSMOUTH HARBOR ENT. (off Wood I.)		43 03.8	70 42.3	Daily predictions						0.0 - -	1.2 355	0.0 - -	1.8 195
411	Fort Point		43 04	70 42	+0 05	+0 05	+0 05	+0 05	1.2	1.1	0.0 - -	1.5 350	0.0 - -	2.0 130
421	Salamander Point		43 05	70 43	+0 10	+0 10	+0 10	+0 10	1.1	0.7	0.0 - -	1.3 260	0.0 - -	1.3 085
431	Hick Rocks and Clarks Island, between		43 05	70 43	-0 35	-0 50	-0 35	-0 50	0.8	0.4	0.0 - -	0.9 335	0.0 - -	0.8 195
441	Kittery Point Bridge		43 05	70 43	-1 10	-1 10	-1 10	-1 10	0.7	0.6	0.0 - -	0.8 020	0.0 - -	1.1 200
451	Jamaica Island, northeast of		43 05	70 43	-0 25	-0 25	-0 25	-0 25	0.8	0.7	0.0 - -	1.0 315	0.0 - -	1.0 135
461	Seavey Island, north of		43 05	70 44	+0 15	+0 15	+0 15	+0 15	1.2	1.0	0.0 - -	1.4 260	0.0 - -	1.8 080
471	Clarks I. and Seavey I., between <5>		43 05	70 44					1.5		0.0 - -	1.8 200	0.0 - -	
481	Clarks Island, south of		43 04	70 44	+0 15	+0 15	+0 15	+0 15	1.7	1.7	0.0 - -	2.1 260	0.0 - -	3.1 080
491	Seavey Island, south of		43 04	70 44	+0 15	+0 15	+0 15	+0 15	2.5	2.1	0.0 - -	3.0 260	0.0 - -	3.8 090
501	Marvin Island and Goat Island, between		43 04	70 44	-1 00	-1 00	-1 00	-1 00	1.0	0.4	0.0 - -	1.2 160	0.0 - -	0.8 340
511	Henderson Point, west of		43 05	70 44	+0 30	+0 30	+0 30	+0 30	2.2	1.3	0.0 - -	2.6 340	0.0 - -	2.3 170
521	Off Gangway Rock		43 05	70 45	+0 30	+0 30	+0 30	+0 30	1.7	1.7	0.0 - -	2.1 280	0.0 - -	3.0 110
531	Badgers Island, east of		43 05	70 45	+0 25	+0 25	+0 25	+0 25	0.9	0.2	0.0 - -	1.1 240	0.0 - -	0.4 050

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS, 1983

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	PORTSMOUTH HARBOR Time meridian, 75°W				on PORTSMOUTH HARBOR ENTRANCE, p.10													
541	Badgers Island, southwest of.....		43 05	70 45	+0 30	+0 30	+0 30	+0 30	2.7	2.0	0.0	- -	3.3	330	0.0	- -	3.7	125
	PISCATAQUA RIVER and TRIBUTARIES																	
546	NW of Nobles Island (RR. bridge).....		43 05	70 46	+0 35	+0 35	+0 35	+0 35	1.3	0.5	0.0	- -	1.6	050	0.0	- -	0.9	200
551	Nobles Island, north of.....		43 06	70 46	+0 30	+0 30	+0 30	+0 30	3.0	2.4	0.0	- -	3.6	305	0.0	- -	4.4	140
556	Frankfort Island, south of.....		43 07	70 48	+0 30	+0 30	+0 30	+0 30	2.2	1.6	0.0	- -	2.6	310	0.0	- -	2.9	130
561	Little Bay entrance, Dover Point.....		43 07	70 50	+0 35	+0 35	+0 35	+0 35	3.2	2.3	0.0	- -	3.8	270	0.0	- -	4.2	095
566	Furber Strait.....		43 05	70 52	+0 40	+0 40	+0 40	+0 40	1.7	1.2	0.0	- -	2.0	185	0.0	- -	2.1	010
	MASSACHUSETTS COAST																	
571	Gunboat Shoal.....		43 01	70 42	+0 05	+0 05	+0 05	+0 05	0.4	0.3	0.0	- -	0.5	340	0.0	- -	0.5	160
576	Isles of Shoals Light, White Island.....		42 58	70 37	0 00	0 00	0 00	0 00	0.2	0.2	0.0	- -	0.3	020	0.0	- -	0.3	200
					on BOSTON HARBOR, p.16													
581	Merrimack River entrance.....		42 49.1	70 48.6	+1 04	+1 15	+1 13	-0 34	2.0	1.2	0.0	- -	2.2	285	0.0	- -	1.4	105
586	Newburyport, Merrimack River.....		42 48.8	70 52.1	+1 28	+1 48	+1 47	+0 35	1.4	1.2	0.0	- -	1.5	288	0.0	- -	1.4	098
591	Plum Island Sound entrance.....		42 42.3	70 47.3	+0 36	+0 50	+0 48	-0 07	1.5	1.2	0.0	- -	1.6	316	0.0	- -	1.5	184
596	Annisquam Harbor Light.....		42 40.1	70 41.1	+0 42	+0 49	+0 58	+0 03	0.9	1.1	0.0	- -	1.0	200	0.0	- -	1.3	013
601	Gloucester Harbor entrance.....		42 34.9	70 40.5	-0 28	+0 01	-0 29	-0 36	0.3	0.2	0.0	- -	0.3	340	0.0	- -	0.3	195
606	Blynman Canal ent., Gloucester Harbor...		42 36.6	70 40.4	-0 06	+0 05	-0 15	-0 39	2.7	2.8	0.0	- -	3.0	310	0.0	- -	3.3	130
611	Marblehead Channel.....		42 30	70 49	+1 09	+1 09	+1 09	+1 09	0.4	0.3	0.0	- -	0.4	285	0.0	- -	0.4	105
616	Ram Island, 0.2 n.mi. NNE of.....	10	42 28.75	70 51.68	See Rotary Tidal Currents, p.185													
621	Ram Island, 0.2 n.mi. southeast of.....	10	42 28.45	70 51.55	See Rotary Tidal Currents, p.185													
626	Great Pig Rocks, southeast of.....	10	42 27.53	70 50.70	See Rotary Tidal Currents, p.185													
631	Galloupes Point, 0.4 n.mi. south of.....	10	42 27.24	70 53.70	See Rotary Tidal Currents, p.185													
636	Little Nahant, 0.9 n.mi. northeast of...	10	42 26.85	70 54.84	See Rotary Tidal Currents, p.185													
641	Egg Rock, 0.2 n.mi. north of.....	10	42 26.25	70 53.93	See Rotary Tidal Currents, p.185													
646	Egg Rock, southwest of.....	10	42 25.85	70 54.20	See Rotary Tidal Currents, p.185													
651	Nahant, 1.8 n.mi. NE of East Point.....	10	42 26.00	70 52.02	+0 32	+0 49	+0 15	+1 00	0.6	0.6	0.0	- -	0.7	252	0.1	291	0.7	144
	...do.....	45	42 26.00	70 52.02	-0 21	+1 04	+1 14	-0 31	0.3	0.2	0.0	- -	0.3	250	0.0	- -	0.2	070
	...do.....	80	42 26.00	70 52.02	-0 25	+1 04	+1 15	-0 31	0.2	0.1	0.1	329	0.2	238	0.0	- -	0.2	077
656	Nahant, 0.4 n.mi. east of East Point....	15	42 25.23	70 53.63	+0 04	-0 41	+0 15	+0 22	0.4	0.5	0.2	118	0.5	205	0.0	- -	0.6	045
	...do.....	25	42 25.23	70 53.63	+0 03	-0 26	+0 08	+0 29	0.4	0.4	0.1	102	0.4	198	0.1	282	0.5	027
661	Nahant, 1 n.mi. SE of East Point.....	45	42 23.83	70 51.17	+0 04	+1 04	+1 13	+0 14	0.3	0.2	0.0	- -	0.3	253	0.0	- -	0.3	074
	...do.....	70	42 23.83	70 51.17	-0 22	-0 04	+0 19	-1 01	0.2	0.2	0.0	- -	0.2	261	0.0	- -	0.2	090
666	Pea Island, 0.4 n.mi. southeast of.....	15	42 24.63	70 54.13	+0 53	+0 55	+0 42	-0 01	0.5	0.4	0.0	- -	0.5	239	0.1	161	0.5	063
	...do.....	25	42 24.63	70 54.13	+0 34	+0 34	+0 57	+0 29	0.4	0.3	0.0	- -	0.5	224	0.0	- -	0.4	048
	...do.....	65	42 24.63	70 54.13	-0 37	-0 59	+0 14	-0 31	0.3	0.3	0.1	332	0.4	271	0.0	- -	0.3	035
671	Bass Point, 1.2 n.mi. southeast of.....	10	42 24.12	70 55.07	-0 22	+1 20	+0 58	-0 14	0.7	0.6	0.1	351	0.7	259	0.0	- -	0.7	066
	...do.....	45	42 24.12	70 55.07	-0 29	-0 10	+0 52	-0 29	0.3	0.2	0.0	- -	0.4	251	0.0	- -	0.3	086
	...do.....	60	42 24.12	70 55.07	-0 29	-0 10	+0 31	-0 59	0.2	0.2	0.0	- -	0.3	250	0.0	- -	0.2	091
676	Bass Point, 0.5 n.mi. SSW of.....	15	42 24.57	70 56.53	See Rotary Tidal Currents, p.185													
681	Bass Point, 0.7 n.mi. west of.....	10	42 25.13	70 57.25	See Rotary Tidal Currents, p.185													

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS, 1983

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood	Maximum Flood		Minimum before Ebb	Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.
	CAPE COD BAY Time meridian, 75°W				on BOSTON HARBOR, p.16											
1231	Race Point, 7 miles north of		42 11	70 16	-0 01	-0 01	-0 01	-0 01	1.4	1.2	0.0	- -	1.5	290	0.0	- -	1.5	- -
1236	Race Point, 1 mile northwest of		42 05	70 15	-0 06	-0 06	-0 06	-0 06	0.9	0.8	0.0	- -	1.0	226	0.0	- -	0.9	061
1241	Provincetown Harbor		42 03	70 10	+0 04	+0 04	+0 04	+0 04	0.5	0.3	0.0	- -	0.6	315	0.0	- -	0.4	135
1246	Wellfleet Harbor		41 54	70 03	+0 09	+0 09	+0 09	+0 09	0.6	0.4	0.0	- -	0.7	020	0.0	- -	0.5	200
1251	Barnstable Harbor		41 43.6	70 16.4	+0 19	+0 58	+0 22	+0 29	1.1	1.2	0.0	- -	1.2	192	0.0	- -	1.4	004
1256	Sandwich Harbor		41 46	70 29	Current weak and variable											
	Cape Cod Canal (see Index)		- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- -	- -	- -	- -	- -	- -	- -	- -
1261	Sagamore Beach		41 48	70 31	Current weak and variable											
1266	Ellisville Harbor, 1 mile east of		41 51	70 30	+0 14	+0 14	+0 14	+0 14	0.3	0.2	0.0	- -	0.3	200	0.0	- -	0.3	020
1271	Manomet Point		41 56	70 32	+0 04	+0 04	+0 04	+0 04	1.0	0.7	0.0	- -	1.1	155	0.0	- -	0.9	010
1276	Gurnet Point, 1 mile east of		42 00	70 35	-0 06	-0 06	-0 06	-0 06	1.3	0.8	0.0	- -	1.4	250	0.0	- -	1.0	- -
1281	Plymouth Harbor		41 58	70 39	+0 04	+0 04	+0 04	+0 04	0.5	0.3	0.0	- -	0.5	245	0.0	- -	0.4	010
1286	Farnham Rock, 1 mile east of		42 06	70 35	-0 21	-0 21	-0 21	-0 21	1.0	0.8	0.0	- -	1.1	180	0.0	- -	0.9	010
	MASSACHUSETTS COAST-Continued				on POLLOCK RIP CHANNEL, p.28											
1291	Nauset Beach Light, 5 miles northeast of		41 56	69 54	See table 5.											
1296	Georges Bank and vicinity		- - - -	- - - -	See table 5.											
1301	Davis Bank		- - - -	- - - -	See table 5.											
1306	Monomoy Point, 23 miles east of		41 35	69 30	See table 5.											
1311	Nantucket Shoals		40 37	69 37	See table 5.											
1316	Nantucket Island, 28 miles east of		41 20	69 21	See table 5.											
1321	Old Man Shoal, Nantucket Shoals		41 13.6	69 59.0	+1 23	+1 03	+1 17	+1 14	0.9	0.9	0.0	- -	1.9	080	0.0	- -	1.6	225
1326	Miacomet Pond, 3.0 miles SSE of		41 11.4	70 05.8	+2 19	+2 03	+2 22	+2 16	0.6	0.8	0.0	- -	1.3	080	0.0	- -	1.4	280
1331	Tuckernuck Island, 4.2 miles SSW of		41 13.57	70 16.90	+4 08	+3 13	+2 17	+3 56	0.3	0.6	0.0	- -	0.5	090	0.0	- -	1.0	280
1336	Martha's Vineyard, 1.4 miles S of <1>		41 19.50	70 39.90	- - -	-2 53	- - -	-2 47	0.1	0.1	0.0	- -	0.3	230	0.0	- -	0.3	095
	NANTUCKET SOUND ENTRANCE															
1341	Pollock Rip Channel, east end		41 33.9	69 55.4	-0 14	-0 39	-0 23	-0 38	1.0	1.1	0.0	- -	2.0	053	0.0	- -	1.8	212
1346	POLLOCK RIP CHANNEL (Butler Hole)		41 33	69 59	Daily predictions						0.0	- -	2.0	037	0.0	- -	1.8	226
1351	Great Round Shoal Channel		- - -	- - - -	See table 5.											
	NANTUCKET SOUND															
1356	Monomoy Pt., channel 0.2 mile west of		41 33.0	70 01.3	0 00	+0 39	+0 18	-0 23	0.8	1.2	0.0	- -	1.7	170	0.0	- -	2.0	346
1361	Chatham Roads		41 38.6	70 01.7	Current weak and variable											
1366	Stage Harbor, west of Morris Island		41 39.4	69 58.5	+3 07	+1 29	+2 24	+4 28	0.3	0.6	0.0	- -	0.5	335	0.0	- -	1.0	144
1371	Dennis Port, 2.2 miles south of		41 37.0	70 06.9	+1 28	+0 52	+0 27	+1 04	0.2	0.2	0.1	138	0.3	077	0.1	052	0.3	269
1376	Monomoy Point, 6 miles west of		41 33.5	70 09.0	+1 22	+1 52	+1 09	+1 22	0.2	0.3	0.1	194	0.5	090	0.1	256	0.5	275
1381	Handkerchief Lighted Whistle Buoy "H"		41 29.3	70 04.0	+1 08	+1 10	+0 49	+0 59	0.6	0.8	0.0	- -	1.3	080	0.0	- -	1.3	251
1386	Halfmoon Shoal, 1.9 miles northeast of		41 29.05	70 11.55	+1 42	+1 49	+1 24	+1 44	0.4	0.3	0.0	- -	0.8	110	0.0	- -	0.6	265
1391	Halfmoon Shoal, 3.5 miles east of		41 28.1	70 09.2	+1 13	+1 23	+1 06	+1 11	0.5	0.6	0.0	- -	1.1	088	0.0	- -	1.0	295
1396	Great Point, 0.5 mile west of		41 23.6	70 03.7	+0 25	+1 37	+1 13	+0 33	0.6	0.7	0.0	- -	1.1	029	0.0	- -	1.2	195
1401	Great Point, 3 miles west of		41 23.4	70 06.8	+1 15	+1 23	+0 51	+1 08	0.4	0.5	0.0	- -	0.8	066	0.0	- -	0.8	248
1406	Tuckernuck Shoal, off east end		41 24.3	70 10.4	+1 22	+1 34	+1 09	+1 10	0.5	0.5	0.3	000	0.9	113	0.3	186	0.9	287

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS, 1983

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood	Maximum Flood	Minimum before Ebb	Maximum Ebb		
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	NANTUCKET SOUND Time meridian, 75°W				on POLLOCK RIP CHANNEL, p.28													
1411	Brant Point, 2 miles NNW of <1>.....		41 19.25	70 06.30	- - -	+1 43	- - -	+2 36	0.2	0.2	0.0	- -	0.3	090	0.0	- -	0.3	275
1416	*Nantucket Harbor entrance channel*.....		41 18.4	70 06.0	+3 22	+1 55	+2 44	+3 58	0.6	0.9	0.0	- -	1.2	171	0.0	- -	1.5	350
1421	Eel Pt., Nantucket I. 2.5 miles NE of...		41 19.3	70 10.2	+1 13	+1 12	+1 02	+1 15	0.3	0.2	0.0	- -	0.6	094	0.0	- -	0.4	284
1426	Muskeget I., channel 1 mile northeast of		41 21.0	70 17.1	+1 29	+0 45	+0 57	+0 56	0.6	0.9	0.0	- -	1.1	108	0.0	- -	1.5	295
1431	Muskeget Rock, 1.3 miles southwest of...		41 19.2	70 23.6	+1 10	+0 23	+0 57	+0 18	0.6	0.6	0.0	- -	1.3	024	0.0	- -	1.0	192
1436	Muskeget Channel.....		41 20.9	70 25.2	+1 40	+0 38	+1 29	+1 02	1.9	1.9	0.0	- -	3.8	021	0.0	- -	3.3	200
1441	Wasque Point, 2.0 miles southwest of....		41 19.90	70 29.25	+1 30	+1 04	+1 11	+0 32	0.6	0.6	0.0	- -	1.3	075	0.0	- -	1.2	280
								+1 15		0.5							0.9	280
								+1 53		0.6							1.1	280
1446	Long Shoal-Norton Shoal, between.....		41 24.50	70 20.00	+1 31	+1 12	+1 26	+1 13	0.7	0.6	0.0	- -	1.4	100	0.0	- -	1.1	260
1451	Cape Page Lt., 1.7 miles SSE of.....		41 24.0	70 25.6	+0 58	-0 07	+0 49	+0 48	0.8	0.7	0.0	- -	1.6	025	0.0	- -	1.3	215
1456	Cross Rip Channel.....		41 26.9	70 17.5	+1 48	+1 48	+1 55	+1 59	0.6	0.5	0.0	- -	1.3	091	0.0	- -	0.9	272
1461	Cape Page Lt., 3.2 miles northeast of...		41 27.5	70 24.0	+2 42	+2 03	+2 33	+2 37	0.8	0.7	0.0	- -	1.6	095	0.0	- -	1.2	300
1466	Broken Ground-Horseshoe Shoal, between..		41 33.0	70 17.1	+1 46	+1 56	+1 15	+1 20	0.5	0.5	0.2	000	1.1	107	0.1	224	0.9	276
1471	Point Gammon, 1.2 miles south of.....		41 35.3	70 15.4	+1 15	+1 03	+1 06	+1 02	0.5	0.6	0.0	- -	1.1	105	0.0	- -	1.0	260
1476	Hyannis Harbor, entrance off breakwater.		41 37.4	70 17.5	Current weak and variable													
1481	Lewis Bay entrance channel.....		41 37.9	70 16.4	+2 46	+0 53	+2 44	+4 22	0.5	0.8	0.0	- -	0.9	004	0.0	- -	1.3	184
1486	Cotuit Bay entrance (Bluff Point).....		41 36.6	70 25.8	+2 44	+2 33	+2 51	+3 35	0.3	0.4	0.0	- -	0.5	035	0.0	- -	0.7	218
1491	Wreck Shoal-Eldridge Shoal, between.....		41 32.0	70 25.7	+1 47	+1 32	+1 44	+1 45	0.8	0.8	0.0	- -	1.7	062	0.0	- -	1.4	245
1496	Hedge Fence Lighted Gong Buoy 22.....		41 28.3	70 29.0	+2 48	+2 34	+2 38	+2 44	0.7	0.7	0.0	- -	1.4	108	0.0	- -	1.2	268
1501	Cape Page Light, 1.4 miles west of.....		41 25.45	70 29.00	+2 13	+1 54	+1 26	+1 39	0.2	0.1	0.0	- -	0.3	095	0.0	- -	0.2	250
1506	Edgartown, Inner Harbor.....		41 23.4	70 30.5	+0 25	-1 04	+0 35	-0 20	0.6	0.6	0.0	- -	1.1	075	0.0	- -	1.1	270
						+0 38		+1 08	0.3	0.3			0.6	070			0.5	265
						+1 58		+1 52	0.4	0.4			0.8	075			0.7	260
1511	Katama Pt., 0.6 mi. NNW of, Katama B....		41 21.9	70 30.3	+0 12	-0 43	+0 20	-0 31	0.3	0.3	0.0	- -	0.6	325	0.0	- -	0.5	180
						+0 47		+1 12	0.2	0.1			0.3	325			0.2	195
						+1 46		+1 57	0.2	0.2			0.4	325			0.3	175
1516	*East Chop-Squash Meadow, between*.....		41 27.9	70 32.2	+2 07	+0 55	+1 43	+2 04	0.7	1.1	0.0	- -	1.4	131	0.0	- -	1.8	329
1521	East Chop, 1 mile north of.....		41 29.1	70 33.5	+2 40	+1 52	+2 17	+2 11	1.1	1.3	0.0	- -	2.2	116	0.0	- -	2.2	297
1526	Vineyard Haven.....		41 28.1	70 35.2	Current weak and variable													
1531	West Chop, 0.8 mile north of.....		41 29.6	70 35.7	+2 49	+1 58	+2 20	+2 35	1.6	1.8	0.0	- -	3.1	096	0.0	- -	3.0	282
1536	Hedge Fence-L'Hommedieu Shoal, between..		41 30.3	70 32.2	+2 27	+1 38	+2 01	+1 52	1.0	1.3	0.0	- -	2.1	106	0.0	- -	2.2	276
1541	Waquoit Bay entrance.....		41 32.9	70 31.8	+3 21	+2 14	+3 40	+4 01	0.8	0.8	0.0	- -	1.5	348	0.0	- -	1.4	203
1546	L'Hommedieu Shoal, north of west end....		41 31.6	70 34.6	+2 30	+2 03	+2 12	+2 11	1.2	1.4	0.0	- -	2.3	080	0.0	- -	2.3	268
1551	Nobska Point, 1.8 miles east of.....		41 31.1	70 37.1	+2 13	+1 45	+1 55	+1 49	1.2	1.0	0.0	- -	2.3	063	0.0	- -	1.7	240
	VINEYARD SOUND																	
1556	West Chop, 0.2 mile west of.....		41 29.0	70 36.6	+1 19	+1 34	+1 50	+1 16	1.3	0.8	0.0	- -	2.7	059	0.0	- -	1.4	241
1561	Nobska Point, 1 mile southeast of.....		41 30.1	70 38.6	+2 33	+2 15	+2 25	+2 19	1.3	1.4	0.0	- -	2.6	071	0.0	- -	2.4	259
1566	Norton Point, 0.5 mile north of.....		41 28.1	70 39.9	+1 55	+1 44	+2 01	+1 12	1.7	1.4	0.0	- -	3.4	050	0.0	- -	2.4	240
1571	Tarpaulin Cove, 1.5 miles east of.....		41 28.3	70 43.5	+2 49	+2 07	+2 12	+2 33	1.0	1.4	0.0	- -	1.9	055	0.0	- -	2.3	232
1576	Robinsons Hole, 1.2 miles southeast of..		41 25.1	70 46.8	+2 30	+1 51	+2 11	+2 02	1.0	1.2	0.0	- -	1.9	060	0.0	- -	2.1	240
1581	Gay Head, 3 miles northeast of.....		41 23.1	70 47.0	+2 25	+1 50	+1 42	+2 11	0.5	0.8	0.0	- -	0.9	081	0.0	- -	1.3	238
1586	Menemsha Bight <6>.....		41 21.3	70 46.3														
1591	Gay Head, 3 miles north of.....		41 24.1	70 51.2	+2 13	+1 24	+1 55	+1 17	0.6	0.7	0.0	- -	1.1	074	0.0	- -	1.2	255

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS, 1983

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood		AVERAGE SPEEDS AND DIRECTIONS Maximum Flood		AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb		AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	VINEYARD SOUND Time meridian, 75°W				on POLLOCK RIP CHANNEL, p.28													
1596	Gay Head, 1.5 miles northwest of.....		41 21.8	70 51.8	+1 30	+0 54	+1 42	+1 16	1.0	1.2	0.0	- -	2.0	012	0.0	- -	2.0	249
1601	Cuttyhunk Island, 3.2 miles southwest of		41 23	71 00	See table 5.													
1606	Browns Ledge.....		41 19.8	71 05.9	See table 5.													
	VINEYARD SOUND-BUZZARDS BAY				on CAPE COD CANAL, p.22													
	Woods Hole																	
1611	South end.....		41 30.8	70 40.2	+0 29	+1 40	+1 17	+0 08	0.4	0.2	0.0	- -	1.5	135	0.0	- -	1.1	318
1616	0.1 mile SW of Devils Foot Island....		41 31.2	70 41.1	+0 20	+1 41	+0 55	+0 31	0.9	0.8	0.0	- -	3.5	094	0.0	- -	3.6	276
1621	North end.....		41 31.5	70 41.6	-0 29	+1 25	+1 09	-0 04	0.2	0.2	0.0	- -	0.8	160	0.0	- -	0.7	007
	Robinsons Hole																	
1626	South end.....		41 26.7	70 48.2	+1 14	+1 42	+1 20	+1 01	0.2	0.2	0.0	- -	0.8	162	0.0	- -	1.0	339
1631	Middle.....		41 27.0	70 48.4	+1 30	+2 00	+1 02	+0 47	0.7	0.6	0.0	- -	2.8	146	0.0	- -	2.9	316
1636	North end.....		41 27.4	70 48.7	+1 54	+2 00	+0 52	+1 17	0.2	0.3	0.0	- -	1.0	161	0.0	- -	1.2	338
	Quicks Hole																	
1641	South end.....		41 26.3	70 50.5	+2 18	+1 42	+1 17	+0 53	0.5	0.4	0.0	- -	1.9	140	0.0	- -	2.0	300
1646	Middle.....		41 26.6	70 50.9	+2 21	+2 00	+1 26	+0 41	0.6	0.5	0.0	- -	2.5	167	0.0	- -	2.2	339
1651	North end.....		41 27.1	70 51.0	+2 42	+2 06	+1 44	+0 23	0.5	0.6	0.0	- -	2.0	165	0.0	- -	2.6	002
1656	Canapitsit Channel.....		41 25.4	70 54.5	+2 03	+2 27	+1 02	+0 26	0.6	0.4	0.0	- -	2.6	156	0.0	- -	1.7	312
					on POLLOCK RIP CHANNEL, p.28													
1661	Westport River entrance.....		41 30.5	71 05.3	+0 09	-0 05	-0 26	-1 13	1.1	1.5	0.0	- -	2.2	290	0.0	- -	2.5	108
	BUZZARDS BAY (7)																	
1666	Gooseberry Neck, 2 miles SSE of.....		41 27	71 01	See table 5.													
1671	Ribbon Reef-Sow & Pigs Reef, between....		41 25.3	70 58.2	-0 19	-1 31	-2 44	-1 54	0.4	0.7	0.0	- -	0.8	062	0.0	- -	1.2	237
1676	Penikese Island, 0.8 mile northwest of..		41 27.9	70 56.2	-1 37	-0 25	-0 55	-0 57	0.6	0.6	0.0	- -	1.2	050	0.0	- -	1.1	254
1681	Penikese Island, 0.2 mile south of.....		41 26.6	70 55.5	-1 43	-0 15	-1 30	-2 39	0.4	0.5	0.0	- -	0.7	093	0.0	- -	0.9	287
1686	Gull I. and Nashawena I., between.....		41 26.2	70 54.2	-2 15	-0 57	-2 01	-2 41	0.5	0.6	0.0	- -	0.9	091	0.0	- -	1.1	247
1691	Weepecket Island, south of.....		41 30.4	70 44.3	-3 16	-1 07	-1 28	-2 27	0.4	0.4	0.0	- -	0.8	069	0.0	- -	0.6	255
1696	Quamquisset Harbor entrance.....		41 32.4	70 39.8	Current weak and variable						0.0	- -	0.4	- -	0.0	- -	0.3	- -
1701	West Falmouth Harbor entrance.....		41 36.5	70 39.3	Current weak and variable													
1706	Megansett Harbor.....		41 38.8	70 39.2	Current weak and variable													
1711	Abiels Ledge, 0.4 mile south of.....		41 41.1	70 40.4	+0 26	-0 36	-0 06	-0 23	0.4	0.6	0.0	- -	0.8	035	0.0	- -	1.0	216
1716	Dumpling Rocks, 0.2 mile southeast of...		41 32.0	70 55.1	-1 43	-1 03	-1 32	-2 09	0.4	0.6	0.0	- -	0.8	066	0.0	- -	1.1	190
1721	Apponaganset Bay.....		41 35	70 57	Current weak and variable													
1726	Clarks Cove.....		41 36	70 55	Current weak and variable													
1731	New Bedford Harbor and approaches.....				Current weak and variable													
1736	West Island and Long Island, between....		41 35.6	70 50.4	Current weak and variable						0.0	- -	0.3	- -	0.0	- -	0.4	- -
1741	West Island, 1 mile southeast of.....	6	41 34.0	70 48.6	-0 43	-0 43	-1 28	-1 42	0.4	0.5	0.0	- -	0.7	079	0.0	- -	0.8	203
1746	Naskatucket Bay.....		41 37.1	70 50.2	Current weak and variable						0.0	- -	0.3	- -	0.0	- -	0.3	- -
1751	Mattapoisett Harbor.....		41 38	70 47	Current weak and variable													
1756	Sippican Harbor.....		41 41	70 44	Current weak and variable						0.0	- -	0.3	- -	0.0	- -	0.4	- -
1761	Wareham River, off Long Beach Point.....		41 44.0	70 43.0	-1 41	-0 31	-1 22	-1 23	0.3	0.4	0.0	- -	0.6	022	0.0	- -	0.6	202

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS, 1983

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	AVERAGE SPEEDS AND DIRECTIONS Maximum Flood	AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb	AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	BUZZARDS BAY <7> Time meridian, 75°W				on POLLOCK RIP CHANNEL, p.28									
1766	Wareham River, off Barneys Point.....		41 44.7	70 42.4	-1 49	-0 27	-1 22	-1 31	0.4	0.4	0.0 - -	0.7 010	0.0 - -	0.6 185
					on CAPE COD CANAL, p.22									
1771	Onset Bay, south of Onset Island.....		41 43.9	70 38.7	Current weak and variable									
1776	Onset Bay, south of Wickets Island.....		41 44.1	70 39.3	Current weak and variable									
	CAPE COD CANAL													
1781	CAPE COD CANAL, railroad bridge.....		41 44.5	70 36.8	Daily predictions						0.0 - -	4.0 070	0.0 - -	4.5 250
1786	Bourne Highway bridge.....		41 45	70 35	-0 03	-0 01	-0 03	-0 04	0.8	0.9	0.0 - -	3.3 065	0.0 - -	4.0 245
1791	Bournedale.....		41 46	70 34	-0 07	-0 03	-0 09	-0 10	0.8	0.8	0.0 - -	3.4 030	0.0 - -	3.6 210
1796	Sagamore Bridge.....		41 46	70 33	-0 09	-0 04	-0 11	-0 13	0.7	0.6	0.0 - -	2.8 095	0.0 - -	2.5 275
1801	Cape Cod Canal, east end.....	15	41 46.5	70 30.0	-0 13	-0 06	-0 17	-0 19	0.6	0.6	0.0 - -	2.4 065	0.0 - -	2.6 245
	NARRAGANSETT BAY <8>				on POLLOCK RIP CHANNEL, p.28									
1811	Sakonnet River (except Narrows).....		- - - -	- - - -	Current weak and variable									
1821	Tiverton, Stone bridge, Sakonnet R. <9>.		41 37.5	71 13.0	-2 58	-5 02	-2 26	-3 06	1.4	1.6	0.0 - -	2.7 010	0.0 - -	2.7 190
						-2 54			0.3			0.6 010		
						-0 36			1.3			2.5 010		
1831	Tiverton, RR. bridge, Sakonnet R. <10>..		41 38.3	71 12.9	-3 26	-5 06	-2 48	-3 41	1.2	1.4	0.0 - -	2.3 000	0.0 - -	2.4 180
						-3 04			- -			- -		
						-1 15			0.8			1.5 000		
1841	Brenton Point, 1.4 n.mi. southwest of...	7	41 25.9	71 22.6	-1 03	-0 38	-1 20	-1 04	0.2	0.4	0.0 - -	0.4 347	0.0 - -	0.6 170
1851	Castle Hill, west of.....	7	41 27.8	71 22.2	-1 22	-3 00	-1 31	-1 31	0.5	0.8	0.0 - -	1.0 000	0.0 - -	1.4 210
1861	Bull Point, east of.....	10	41 28.8	71 21.0	-1 10	-0 47	-1 10	-1 33	0.6	0.8	0.0 - -	1.2 001	0.0 - -	1.5 206
1871	Mackerel Cove.....		41 28.5	71 22.8	Current weak and variable									
1881	Newport Harbor, S and E of Goat Island..		41 29	71 20	Current weak and variable									
1891	Rose Island, northeast of.....		41 30.2	71 20.0	-1 58	-1 29	-1 24	-1 38	0.4	0.6	0.0 - -	0.8 340	0.0 - -	1.1 166
1901	Rose Island, west of.....		41 29.8	71 21.0	-0 42	-0 34	-1 20	-1 28	0.4	0.6	0.0 - -	0.7 001	0.0 - -	1.0 172
1911	Gould Island, southeast of.....	7	41 31.5	71 20.2	-1 40	-1 28	-1 14	-1 16	0.3	0.4	0.0 - -	0.5 033	0.0 - -	0.7 217
1921	Dyer Island-Carrs Point (between).....		41 34.5	71 17.8	-1 56	-1 13	-0 50	-1 37	0.4	0.4	0.0 - -	0.8 040	0.0 - -	0.6 236
1931	Dyer Island, west of.....	7	41 35.2	71 18.5	-1 04	-0 46	-0 53	-1 34	0.4	0.6	0.0 - -	0.8 023	0.0 - -	1.0 216
1941	Bristol Harbor.....				Current weak and variable									
1951	Mount Hope Bridge.....	7	41 38.4	71 15.5	-1 22	-1 34	-1 08	-0 58	0.6	0.8	0.0 - -	1.1 047	0.0 - -	1.4 230
1961	Mount Hope Bay.....				Current weak and variable									
1971	Kickamuit R. (Narrows), Mt. Hope Bay....		41 41.9	71 14.7	-2 04	-3 34	-1 19	-0 48	0.7	1.0	0.0 - -	1.4 000	0.0 - -	1.7 191
						-1 40			0.5			0.9 000		
						-0 04			0.9			1.7 000		
1981	Beavertail Point, 0.8 mile northwest of.		41 27.5	71 24.7	-0 11	-0 54	-1 31	-0 19	0.3	0.6	0.0 - -	0.5 003	0.0 - -	1.0 188
1991	Dutch Island and Beaver Head, between...		41 29.8	71 24.2	-1 56	-1 32	-1 58	-1 47	0.5	0.6	0.0 - -	1.0 030	0.0 - -	1.0 233
2001	Dutch Island, west of.....	7	41 30.3	71 24.6	-1 33	-1 49	-1 21	-1 16	0.7	0.7	0.0 - -	1.3 014	0.0 - -	1.2 206
2011	Wickford Harbor.....		41 34	71 26	Current weak and variable							0.3 - -		0.3 - -
2021	Prudence Island, west of.....		- - - -	- - - -	Current weak and variable									
2031	Greenwich Bay entrance.....		41 40.0	71 23.6	Current weak and variable							0.3 - -		0.4 - -

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NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	AVERAGE SPEEDS AND DIRECTIONS Maximum Flood	AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb	AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	NARRAGANSETT BAY <8> Time meridian, 75°W				on POLLOCK RIP CHANNEL, p.28									
2041	Patience Island, narrows east of.....		41 39.5	71 21.2	-2 41	-2 29	-2 44	-2 37	0.4	0.5	0.0 - -	0.7 354	0.0 - -	0.9 157
2051	Patience I. and Warwick Neck, between...		41 39.8	71 22.4	-1 40	-1 21	-1 18	-1 13	0.3	0.5	0.0 - -	0.6 040	0.0 - -	0.8 224
2061	Warren River entrance.....		41 42.7	71 17.8	Current weak and variable						0.0 - -	0.4 020	0.0 - -	0.3 200
2071	Warren, Warren River.....		41 43.7	71 17.3	-0 14	+0 11	-0 22	-1 05	0.5	0.5	0.0 - -	1.0 358	0.0 - -	0.9 171
2081	Hog Island to Providence.....		- - - -	- - - -	Current weak and variable									
2091	India Point RR. Bridge, Seekonk R. <9>..		41 49.0	71 23.3	-1 48	-4 02 -2 30 -0 12	-1 31	-1 06	0.5 0.2 0.7	0.8	0.0 - -	1.0 020 0.4 020 1.3 020	0.0 - -	1.4 180
2101	Cold Spring Pt., Seekonk River <10>.....		41 49.6	71 22.8	-1 48	-4 14 -2 24 -0 26	-1 31	-1 02	0.4 0.1 0.6	0.8	0.0 - -	0.8 030 0.2 030 1.1 030	0.0 - -	1.4 210
	BLOCK ISLAND SOUND				on THE RACE, p.34									
	Point Judith													
2106	Harbor of Refuge, south entrance.....		41 21.48	71 29.75	-2 23	-2 52	-2 26	-3 59 -2 41 -1 56	0.2	0.2 0.1 0.2	0.0 - -	0.6 329	0.0 - -	0.8 141 0.4 141 0.7 141
2111	Harbor of Refuge, west entrance.....		41 22	71 31	See table 5.									
2116	Pond entrance.....		41 23	71 31	-3 23	-3 01	-3 16	-3 52	0.6	0.4	0.0 - -	1.8 351	0.0 - -	1.5 186
2121	2.4 miles southwest of.....		41 19.87	71 30.65	-0 48	-0 01	+0 18	-0 24	0.2	0.2	0.0 - -	0.7 258	0.0 - -	0.6 090
2126	4.5 miles southwest of.....		41 18	71 33	See table 5.									
	Block Island													
2131	four miles north of.....		41 18	71 32	-0 30	+0 03	+0 35	+0 21	0.2	0.2	0.0 - -	0.8 285	0.0 - -	0.8 076
2136	Sandy Point, 2.1 miles NNE of.....	15	41 15.85	71 34.00	+0 09	-0 53	-0 30	-0 43	0.4	0.5	0.0 - -	1.0 296	0.0 - -	1.7 066
2141	Sandy Pt., 1.5 miles north of.....	7	41 15	71 34	-0 22	-0 30	-1 03	-0 50	0.6	0.5	0.0 - -	1.9 315	0.0 - -	2.1 063
2146	Clay Head, 1.2 miles ENE of.....	15	41 13.35	71 31.85	-2 20	-1 32	-0 37	-0 55	0.2	0.1	0.5 220	0.7 298	0.0 - -	0.5 164
2151	Old Harbor Pt., 0.5 mile southeast of		41 09	71 32	-0 10	-0 29	-0 34	+0 09	0.1	0.1	0.0 - -	0.2 336	0.0 - -	0.6 175
2156	Lewis Pt., 1.0 mile southwest of.....		41 08.20	71 37.30	-1 37	-1 08	-0 34	-1 13	0.7	0.5	0.0 - -	1.9 298	0.0 - -	1.8 136
2161	Lewis Pt., 1.5 miles west of.....		41 09	71 38	-1 31	-1 15	-0 44	-0 57	0.4	0.4	0.0 - -	1.4 318	0.0 - -	1.7 170
2166	Great Salt Pond entrance.....		41 11.97	71 35.50	-4 18	-3 35	-3 34	-4 22	0.1	0.1	0.0 - -	0.3 165	0.0 - -	0.3 326
2171	Great Salt Pond ent., 1 mile NW of...	7	41 12	71 36	-0 52	-0 58	-1 50	-0 32	0.1	0.1	0.0 - -	0.4 158	0.0 - -	0.4 035
2176	Sandy Point, 0.4 mile west of <11>...		41 13.80	71 35.13	- - -	-1 24	- - -	-1 35	- -	0.2	0.0 - -	- - - -	0.0 - -	0.7 011
2181	Green Hill Point, 1.1 miles south of....		41 20.90	71 35.77	-1 06	-0 47	-0 34	-0 55	0.2	0.1	0.0 - -	0.6 258	0.0 - -	0.4 070
2186	Sandy Point, 4.1 miles northwest of.....	15	41 17.10	71 38.00	-0 04	+0 11	+0 22	+0 04	0.2	0.2	0.0 - -	0.7 270	0.0 - -	0.6 084
2191	Grace Point, 2.0 miles northwest of.....		41 12	71 38	See table 5.									
2196	Quonochontaug Beach, 1.1 miles S of.....		41 18.80	71 42.82	-0 52	+0 06	+0 37	-0 20	0.4	0.1	0.0 - -	1.1 248	0.0 - -	0.4 078
2201	Quonochontaug Beach, 3.8 miles S of.....	15	41 16.35	71 43.00	-0 05	-0 06	+0 29	+0 08	0.2	0.2	0.0 - -	0.7 243	0.0 - -	0.6 058
2206	Lewis Point, 6.0 miles WNW of.....	15	41 11.60	71 44.20	+0 51	+0 40	+0 06	+0 35	0.2	0.3	0.0 - -	0.6 286	0.0 - -	1.2 097
2211	Southwest Ledge.....		41 07	71 42	-0 33	-0 33	-0 10	-0 08	0.5	0.5	0.0 - -	1.5 321	0.0 - -	2.1 141
2216	Southwest Ledge, 2.0 miles west of.....	15	41 06.80	71 43.00	+0 02	+0 10	+0 01	-0 41	0.5	0.5	0.0 - -	1.5 354	0.0 - -	1.9 168
2221	Watch Hill Point, 2.2 miles east of.....		41 18.16	71 48.60	-0 37	-0 08	+0 35	-0 21	0.4	0.2	0.0 - -	1.2 260	0.0 - -	0.7 086
2226	Watch Hill Point, 5.2 miles SSE of.....	15	41 13.20	71 49.00	+0 26	+0 18	+0 29	+0 12	0.4	0.3	0.0 - -	1.2 265	0.0 - -	1.2 064
2231	Montauk Point, 5.4 miles NNE of.....	15	41 09.55	71 49.48	+0 25	-0 03	-0 47	+0 08	0.4	0.5	0.0 - -	1.1 279	0.0 - -	1.6 079
2236	Montauk Point, 1.2 miles east of.....		41 04.50	71 49.80	-1 30	-1 09	-0 48	-1 53	1.0	0.8	0.0 - -	2.8 346	0.0 - -	2.8 162
2241	Montauk Point, 1 mile northeast of.....		41 05	71 51	-2 02	-1 29	-1 10	-1 41	0.7	0.4	0.0 - -	2.4 356	0.0 - -	1.9 145

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NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS							
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	BLOCK ISLAND SOUND Time meridian, 75°W						on THE RACE, p.34											
2246	Wickopesset Island, 1.1 miles SSE of.....		41 16.50	71 54.80	-1 02	-0 10	+0 39	-0 07	0.5	0.2	0.0	- -	1.5	250	0.0	- -	0.8	073
2251	East Pt., Fishers I., 4.1 miles S of....	15	41 13.40	71 55.50	+0 42	+0 32	+0 09	+0 12	0.3	0.5	0.0	- -	0.9	236	0.0	- -	1.8	073
2256	Cerberus Shoal, 1.5 miles east of.....	15	41 10.45	71 55.17	-0 23	-0 15	-0 33	-0 52	0.4	0.5	0.0	- -	1.1	256	0.0	- -	1.8	092
2261	Shagwong Reef & Cerberus Shoal, between.		41 07.90	71 55.50	-0 38	-0 47	-0 35	-0 57	0.6	0.5	0.0	- -	1.9	241	0.0	- -	1.8	056
2266	Montauk Harbor entrance.....	6	41 04.78	71 56.35	-2 25	-2 47	-3 12	-4 49	0.4	0.2	0.0	- -	1.2	226	0.0	- -	0.6	033
								-2 32		0.1							0.2	024
								-0 44		0.2							0.5	353
2271	Mt. Prospect, 0.6 mile SSE of.....	15	41 14.75	71 59.80	-0 42	-0 06	0 00	-0 59	0.6	0.5	0.0	- -	1.7	275	0.0	- -	1.6	054
2276	Cerberus Shoal and Fishers I., between..	7	41 13	71 58	-0 57	-0 05	+0 11	-0 06	0.4	0.3	0.0	- -	1.3	264	0.0	- -	1.3	096
2281	Little Gull Island, 3.7 miles ESE of....		41 10.7	72 02.1			See table 5.											
2286	Gardiners Island, 3 miles northeast of..	10	41 07.9	72 02.0	-0 45	-0 56	-0 21	-0 26	0.3	0.2	0.0	- -	0.9	305	0.0	- -	1.0	138
2291	Eastern Plain Point, 1.2 miles N of.....		41 07.12	72 04.85	-2 53	-1 51	-1 18	-2 23	0.3	0.2	0.0	- -	1.0	290	0.0	- -	0.8	110
2296	Eastern Plain Pt., 3.9 miles ENE of.....		41 07.05	71 59.80	-1 09	-1 26	-0 32	-1 01	0.3	0.3	0.0	- -	1.0	246	0.0	- -	1.0	096
2301	Little Gull Island, 0.8 mile SSE of <51>		41 11.67	72 06.23	-2 18	-0 50	-0 33	-3 02	0.4	0.2	0.0	- -	1.3	331	0.0	- -	0.6	105
								-1 54		0.0							0.1	252
								-0 32		0.2							0.6	174
2306	Rocky Point, 2 miles WNW of.....	15	41 03.55	72 01.80	-1 30	-1 01	-0 59	-0 59	0.1	0.1	0.1	192	0.3	255	0.2	340	0.3	065
	GARDINERS BAY, etc.																	
2311	Goff Point, 0.4 mile northwest of.....		41 01.49	72 03.75	-1 54	-2 25	-1 35	-2 31	0.4	0.5	0.0	- -	1.2	225	0.0	- -	1.6	010
2316	Acabonack Hbr. ent., 0.6 mile ESE of....		41 01.30	72 07.40	-1 42	-2 10	-1 15	-2 30	0.5	0.3	0.0	- -	1.4	345	0.0	- -	1.2	140
2321	Hog Creek Point, north of.....		41 04.10	72 09.70	-1 04	-0 49	-1 31	-1 52	0.1	0.1	0.0	- -	0.3	281	0.0	- -	0.3	067
2326	Ram Island, 2.2 miles east of.....		41 04.70	72 13.80	-0 27	-0 24	-0 24	-0 12	0.1	0.1	0.0	- -	0.2	250	0.0	- -	0.3	090
2331	Orient Point, 2.4 miles SSE of.....		41 07.50	72 12.30	+0 11	-0 34	+1 01	-0 31	0.1	0.1	0.0	- -	0.4	250	0.0	- -	0.3	025
2336	Gardiners Pt. Ruins, 1.1 miles N of.....		41 09.50	72 08.83	-0 20	-0 17	-0 19	+0 04	0.4	0.5	0.0	- -	1.2	270	0.0	- -	1.8	066
2341	Gardiners Point & Plum Island, between..	15	41 09.33	72 09.52	-0 26	-0 31	-0 42	-0 30	0.5	0.5	0.0	- -	1.4	288	0.0	- -	1.6	100
2346	Ram Island, 1.4 miles NNE of.....		41 05.8	72 15.8	-0 07	-0 02	-0 03	+0 17	0.1	0.2	0.0	- -	0.4	240	0.0	- -	0.6	075
2351	Long Beach Pt., 0.7 mile southwest of...	15	41 06.25	72 18.40	+0 25	-0 11	+0 34	0 00	0.5	0.5	0.0	- -	1.3	307	0.0	- -	1.8	101
2356	Hay Beach Point, 0.3 mile NW of <52>....		41 06.65	72 70.43	+0 12	+0 20	+0 51	-0 51	0.5	0.3	0.0	- -	1.5	210	0.0	- -	1.2	025
								+0 38		0.2							0.6	025
								+1 35		0.2							0.8	020
2361	Jennings Point, 0.2 mile NNW of.....	13	41 04.48	72 22.95	+0 24	+0 09	+0 27	+0 03	0.6	0.4	0.0	- -	1.6	290	0.0	- -	1.5	055
2366	Cedar Point, 0.2 mile west of.....		41 02.38	72 16.07	-0 19	-0 16	+0 19	-0 41	0.6	0.5	0.0	- -	1.8	195	0.0	- -	1.6	005
2371	North Haven Peninsula, north of.....		41 02.47	72 19.25	+0 04	-0 30	+0 29	-0 34	0.8	0.6	0.0	- -	2.4	230	0.0	- -	2.1	035
2376	Paradise Point, 0.4 mile east of.....	13	41 02.88	72 22.57	+0 18	+0 03	+0 35	+0 06	0.5	0.4	0.0	- -	1.5	145	0.0	- -	1.5	345
2381	Little Peconic Bay entrance.....	19	41 01.58	72 23.08	+0 27	+0 01	+0 43	+0 21	0.6	0.4	0.0	- -	1.6	240	0.0	- -	1.5	015
2386	Robins Island, 0.5 mile south of.....		40 56.98	72 27.18	+0 24	-0 12	+0 46	+0 35	0.6	0.2	0.0	- -	1.7	245	0.0	- -	0.6	065
								-1 31		0.1							0.2	243
								-0 07		0.2							0.5	234
	FISHERS ISLAND SOUND																	
2391	Edwards Pt. and Sandy Pt., between.....	4	41 19.90	71 53.88	-2 34	-3 17	-2 25	-3 41	0.4	0.3	0.0	- -	1.1	035	0.0	- -	1.0	227
2396	Napatree Point, 0.7 mile southwest of...		41 17.92	71 54.00	-0 56	-1 07	-0 57	-1 18	0.6	0.6	0.0	- -	1.7	284	0.0	- -	2.2	113
2401	Little Narragansett Bay entrance.....		41 20	71 53	-1 56	-1 59	-2 09	-2 35	0.4	0.3	0.0	- -	1.3	092	0.0	- -	1.3	268

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS, 1983

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	Maximum Flood	Minimum before Ebb	Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	FISHERS ISLAND SOUND Time meridian, 75°W				on THE RACE, p.34									
2406	Avondale, Pawcatuck River <51>.....	6	41 19.90	71 50.73	-1 56	-2 42	-2 17	-3 40	0.2	0.2	0.0 - -	0.6 058	0.0 - -	0.5 265
								-1 08		0.0				0.1 243
								+0 04		0.1				0.2 263
2411	Ram Island Reef, south of.....	7	41 18.1	71 58.5	-0 52	-0 47	-0 41	-0 50	0.4	0.4	0.0 - -	1.3 255	0.0 - -	1.6 088
2416	Noank <51>.....	4	41 19.12	71 59.30	-1 36	-3 16	-4 10	-4 30	0.2	0.1	0.0 - -	0.5 340	0.0 - -	0.3 173
								-1 24		0.0				0.0 - -
								+0 19		0.1				0.5 162
2421	Mystic, Highway Bridge, Mystic River....	6	41 21.25	71 58.18	-2 02	-2 50	-2 07	-3 39	0.2	0.1	0.0 - -	0.5 039	0.0 - -	0.4 231
								-1 40		0.0				0.2 234
								-0 20		0.1				0.3 232
2426	Clay Point, 1.3 miles NNE of.....	15	41 17.88	71 58.53	-0 42	-0 49	-0 40	-1 15	0.5	0.5	0.0 - -	1.4 264	0.0 - -	1.9 035
2431	North Hill Point, 1.1 miles NNW of.....		41 17.57	72 01.68	-1 05	-0 26	-0 18	-1 37	0.5	0.4	0.0 - -	1.5 258	0.0 - -	1.2 082
	LONG ISLAND SOUND													
	The Race													
2436	Race Point, 0.4 mile southwest of....		41 14.70	72 02.60	-0 24	-0 35	-0 43	-0 44	0.9	1.0	0.0 - -	2.6 288	0.0 - -	3.5 135
2441	THE RACE, near Valiant Rock.....		41 14.20	72 03.60	Daily predictions						0.0 - -	2.9 295	0.0 - -	3.5 100
2446	0.5 mile NE of Little Gull Island....		41 13	72 06	-0 30	-0 14	-0 11	-0 26	1.0	0.7	0.0 - -	3.3 002	0.0 - -	3.1 107
2451	Little Gull I., 1.1 miles ENE of.....		41 13.10	72 05.10	-0 07	-0 11	+0 01	-0 45	1.4	1.3	0.0 - -	4.0 301	0.0 - -	4.7 130
2456	Great Gull Island, 0.7 mile WSW of.....		41 11.67	72 08.02	-0 51	-0 33	-0 31	-1 42	0.9	0.9	0.0 - -	2.6 299	0.0 - -	3.2 133
2461	Plum Gut.....		41 10.00	72 12.80	-1 22	-1 30	-1 01	-2 05	1.2	1.2	0.0 - -	3.5 323	0.0 - -	4.3 126
2466	Eastern Point, 1.5 miles south of.....		41 17.8	72 04.4	-1 57	-1 50	-1 03	-1 50	0.1	0.1	0.0 - -	0.4 249	0.0 - -	0.4 055
2471	New London Harbor entrance.....		41 19.08	72 05.02	-1 22	-1 51	-2 12	-1 15	0.1	0.1	0.0 - -	0.1 348	0.0 - -	0.2 211
	Thames River													
2476	Winthrop Point.....		41 21.63	72 05.30	-1 17	-1 59	-0 54	-2 35	0.1	0.1	0.0 - -	0.4 012	0.0 - -	0.4 180
								-1 08		0.0				0.2 186
								+0 04		0.1				0.3 185
2481	Off Smith Cove.....	5	41 23.98	72 05.18	-1 18	-2 20	-1 29	-1 54	0.2	0.1	0.0 - -	0.7 019	0.0 - -	0.5 199
								-1 30		0.1				0.2 202
								+0 13		0.2				0.6 198
2486	Off Stoddard Hill.....	15	41 27.65	72 04.12	-1 17	-2 23	-0 40	-2 29	0.2	0.1	0.0 - -	0.7 332	0.0 - -	0.4 164
								-1 11		0.0				0.2 165
								+0 26		0.2				0.5 161
2491	Lower Coal Dock.....	15	41 30.88	72 04.72	Current weak and variable									
2496	Goshen Point, 1.9 miles SSE of.....	15	41 16.00	72 06.30	-1 05	-1 00	-1 03	-1 49	0.4	0.5	0.0 - -	1.2 285	0.0 - -	1.6 062
2501	Little Gull Island, 0.8 mile NNW of.....	15	41 13.10	72 06.93	+0 17	-1 19	-2 29	-0 46	0.7	0.8	0.0 - -	1.9 258	0.0 - -	2.9 043
2506	Bartlett Reef, 0.2 mile south of.....		41 16.2	72 07.7	-2 01	-0 50	-1 00	-1 31	0.3	0.3	0.0 - -	1.4 255	0.0 - -	1.3 090
2511	Twotree Island Channel.....	11	41 17.87	72 08.47	-1 06	-1 27	-0 43	-1 42	0.4	0.4	0.0 - -	1.2 267	0.0 - -	1.6 099
2516	Niantic (Railroad Bridge).....	5	41 19.40	72 10.62	-0 53	-1 03	-0 53	-0 40	0.6	0.2	0.0 - -	1.6 352	0.0 - -	0.8 178
2521	Black Point, 0.8 mile south of.....	15	41 16.40	72 12.50	-0 50	-1 11	-0 25	-1 10	0.4	0.4	0.0 - -	1.2 260	0.0 - -	1.4 073
2526	Black Point and Plum Island, between....	15	41 14.00	72 12.30	+0 25	+0 04	+0 29	+0 26	0.7	0.7	0.0 - -	2.1 236	0.0 - -	2.4 076
2531	Plum Island, 0.8 mile NNW of.....		41 11.87	72 11.92	+0 04	-0 16	-1 13	-0 41	0.6	0.7	0.0 - -	1.7 247	0.0 - -	2.4 065
2536	Branford Reef, 1.5 miles southwest of...	15	41 12.57	72 49.83	-0 13	-0 14	-0 09	-0 18	0.3	0.2	0.0 - -	0.8 272	0.0 - -	0.7 068
2541	Branford Reef, 5.0 miles south of.....	15	41 08.65	72 49.67	-0 01	+0 09	+0 11	+0 03	0.2	0.2	0.0 - -	0.7 260	0.0 - -	0.8 074
2546	Hatchett Point, 1.1 miles WSW of.....		41 16.35	72 16.92	-2 37	-1 11	-0 52	-2 37	0.4	0.3	0.0 - -	1.3 240	0.0 - -	1.2 045

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS, 1983

NO.	PLACE	METER DEPTH	POSITION		TIME DIFFERENCES				SPEED RATIOS		AVERAGE SPEEDS AND DIRECTIONS					
			Lat.	Long.	Min. before Flood	Flood	Min. before Ebb	Ebb	Flood	Ebb	Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	LONG ISLAND SOUND Time meridian, 75°W						on THE RACE, p.34											
2916	Greenwich Point, 1.1 miles south of.....	15	40 59.02	73 34.02	+1 13	+1 03	+1 39	+1 13	0.2	0.2	0.0	- -	0.7	258	0.0	- -	0.8	073
	...do.....	55	40 59.02	73 34.02	+1 16	+0 56	+0 41	+1 15	0.2	0.1	0.0	- -	0.6	265	0.0	- -	0.4	069
2921	Greenwich Point, 2.5 miles south of.....	15	40 57.60	73 33.68	+0 39	+0 15	+0 47	+0 41	0.2	0.2	0.0	- -	0.7	242	0.0	- -	0.7	052
	...do.....	55	40 57.60	73 33.68	-1 15	+0 01	-0 37	-0 05	0.2	0.1	0.0	- -	0.5	256	0.0	- -	0.4	079
2926	Oak Neck Point, 0.6 mile north of.....	15	40 55.50	73 34.02	+2 43	+2 03	+2 15	+2 23	0.2	0.2	0.0	- -	0.5	260	0.0	- -	0.6	072
	...do.....	30	40 55.50	73 34.02	+0 46	+1 40	+1 31	+2 03	0.2	0.1	0.0	- -	0.5	300	0.0	- -	0.5	090
2931	Captain Hbr. Ent., 0.6 mile southwest of	15	40 59.65	73 35.67	+1 24	+1 49	+1 39	+2 12	0.2	0.2	0.0	- -	0.6	312	0.0	- -	0.7	118
	...do.....	30	40 59.65	73 35.67	+1 14	+1 19	+0 48	+2 10	0.2	0.2	0.0	- -	0.5	319	0.0	- -	0.7	142
2936	Cos Cob Harbor, off Goose Island.....		41 01	73 36	+0 13	-0 07	+0 04	-0 40	0.2	0.1	0.0	- -	0.5	013	0.0	- -	0.4	188
2941	Peningo Neck, 0.6 mi. off Parsonage Pt..	15	40 56.32	73 40.50	+1 01	+0 28	+1 06	+0 39	0.2	0.2	0.0	- -	0.7	226	0.0	- -	0.7	035
2946	Matinecock Point, 0.7 mile NNW of.....	15	40 54.80	73 38.40	+1 06	+0 32	+1 24	+0 48	0.2	0.2	0.0	- -	0.6	233	0.0	- -	0.6	046
	...do.....	40	40 54.80	73 38.40	+0 27	+0 12	+1 23	+0 32	0.2	0.1	0.0	- -	0.7	262	0.0	- -	0.5	053
2951	Matinecock Point, 1.7 miles northwest of	15	40 55.48	73 39.37	+1 12	+1 04	+0 57	+1 14	0.1	0.1	0.0	- -	0.4	234	0.0	- -	0.4	055
2956	Hempstead Harbor, 0.3 mile north of.....	15	40 51.72	73 40.47	Current weak and variable													
2961	Hempstead Harbor, 0.5 mile east of.....	15	40 51.50	73 39.98	- - -	+0 05	- - -	-0 19	0.1	- -	0.0	- -	0.3	157	0.0	- -	0.1	331
2966	Old Town Wharf, 0.5 mile north of.....	5	40 48.78	73 39.08	- - -	-0 22	- - -	- - -	0.1	- -	0.0	- -	0.4	196	0.0	- -	- -	- -
2971	Hempstead Harbor, off Glenwood Landing..	10	40 49.68	73 39.00	-0 46	-0 05	-0 07	-0 47	0.3	0.2	0.0	- -	0.9	138	0.0	- -	0.7	320
2976	Delancey Point, 1 mile southeast of.....	15	40 55.00	73 42.73	+0 37	+0 14	+1 04	+0 07	0.2	0.1	0.0	- -	0.5	244	0.0	- -	0.4	059
	...do.....	33	40 55.00	73 42.73	- - -	+0 11	+0 59	-0 27	0.1	0.1	0.0	- -	0.4	239	0.0	- -	0.3	069
2981	Mamaroneck Harbor.....		40 56	73 43	Current weak and variable													
2986	Echo Bay entrance.....		40 54	73 46	Current weak and variable													
							on THROGS NECK, p.40											
2991	Davids Island, channel 0.1 mile east of.		40 53	73 46	Current weak and variable													
2996	Huckleberry Island, 0.2 mile NW of.....	15	40 53.43	73 45.43	-3 15	-4 07	-3 42	-3 53	0.4	0.3	0.0	- -	0.2	069	0.0	- -	0.2	234
3001	Huckleberry Island, 0.6 mile SE of.....	15	40 52.80	73 44.75	-2 25	-0 24	-2 14	-2 37	0.6	0.4	0.0	- -	0.4	025	0.0	- -	0.3	226
3006	Execution Rocks, 0.4 mile southwest of..	15	40 52.40	73 44.00	-2 38	-3 03	-2 48	-2 51	1.0	0.5	0.0	- -	0.6	058	0.0	- -	0.4	246
3011	Manhasset Bay entrance.....	15	40 49.75	73 43.78	+2 58	+2 27	+2 27	+2 51	0.6	0.4	0.0	- -	0.4	115	0.0	- -	0.3	307
3016	Hart Island, 0.2 mile north of.....	15	40 51.82	73 46.27	-2 23	-3 55	-4 17	-3 23	0.3	0.3	0.0	- -	0.2	098	0.0	- -	0.3	264
								-0 48		0.2							0.1	283
								-0 36		0.2							0.2	283
3021	Hart Island, southeast of.....	15	40 50.62	73 45.77	-1 44	-0 07	-1 32	-0 18	0.9	0.5	0.0	- -	0.6	032	0.0	- -	0.4	216
3026	Hart Island and City Island, between....	15	40 51.37	73 46.73	-1 48	-2 51	-2 19	-2 40	0.4	0.3	0.0	- -	0.2	349	0.0	- -	0.2	143
						-2 39		- - -	0.3	- -			0.2	348			- -	- -
						-0 28		-0 35	0.6	0.4			0.4	349			0.3	150
3031	City Island Bridge.....	10	40 51.47	73 47.60	-2 59	-4 52	-4 27	-4 26	0.3	0.6	0.0	- -	0.2	352	0.0	- -	0.5	198
						-2 30		-2 04	- -	- -			- -	- -			- -	- -
						-1 10		-0 40	0.2	0.2			0.1	327			0.2	196
3036	Eastchester Bay, near Big Tom.....	5	40 50.20	73 47.72	-3 05	-3 51	-4 07	-3 27	0.5	0.5	0.0	- -	0.3	097	0.0	- -	0.4	294
3041	Hutchinson R., Pelham Highway Bridge....	5	40 51.70	73 49.00	+2 41	+2 37	+1 51	+2 00	1.4	0.6	0.0	- -	0.8	305	0.0	- -	0.4	078
3046	City Island, 0.6 mile southeast of.....	15	40 49.72	73 46.47	-1 17	-0 45	-2 59	-3 40	0.8	0.6	0.0	- -	0.5	038	0.0	- -	0.4	251
								-2 19		0.3							0.2	233
								-0 15		0.7							0.5	233

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS, 1983

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	AVERAGE SPEEDS AND DIRECTIONS Maximum Flood	AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb	AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	LONG ISLAND SOUND Time meridian, 75°W				on THROGS NECK, p.40									
3051	Elm Point, 0.2 mile west of	15	40 48.92	73 46.02	-1 33	-3 16	-1 48	-0 26	0.3	0.7	0.0 - -	0.2 026	0.0 - -	0.6 213
						-2 49			0.2			0.1 028		
						-0 09			1.0			0.6 024		
3056	Throgs Neck, 0.4 mile south of	15	40 47.90	73 47.45	+0 36	+0 18	+0 20	+0 06	1.3	0.8	0.0 - -	0.8 090	0.0 - -	0.6 278
3061	THROGS NECK, 0.2 mile south of	15	40 48.12	73 47.48	Daily predictions						0.0 - -	0.6 090	0.0 - -	0.8 289
	EAST RIVER				on HELL GATE, p.46									
3066	Cryders Point, 0.4 mile NNW of		40 48.02	73 47.92	-0 29	-0 43	-0 30	-1 00	0.4	0.2	0.0 - -	1.3 110	0.0 - -	1.1 285
3071	Old Ferry Point		40 48	73 50	-1 23	-0 37	-0 02	-0 38	0.5	0.3	0.0 - -	1.7 076	0.0 - -	1.5 240
3076	Clason Point, 0.2 mile SSW of		40 48.04	73 51.07	-0 22	-0 46	0 00	-0 32	0.5	0.3	0.0 - -	1.8 070	0.0 - -	1.5 250
3081	Flushing Creek entrance		40 45.9	73 50.7	Current weak and variable									
3086	Rikers I. chan., off La Guardia Field		40 47	73 53	+0 04	-0 04	+0 04	-0 08	0.3	0.3	0.0 - -	1.1 088	0.0 - -	1.3 261
3091	Bronx River (1 mile north of Hunts Pt.)		40 48.9	73 52.5	Current weak and variable									
3096	Hunts Point, southwest of		40 48	73 53	+0 01	-0 10	+0 01	-0 05	0.5	0.3	0.0 - -	1.7 108	0.0 - -	1.3 280
3101	N. Brother I. & S. Brother I., between		40 47.9	73 54.0	+0 10	+0 06	+0 20	-0 01	0.7	0.4	0.0 - -	2.5 066	0.0 - -	1.8 253
3106	Port Morris, channel off of		40 47.94	73 54.36	-0 07	-0 32	+0 20	+0 03	0.4	0.4	0.0 - -	1.5 045	0.0 - -	1.7 220
3111	Off Winthrop Ave., Astoria		40 47.2	73 55.0	+0 04	+0 02	-0 01	-0 11	1.0	0.5	0.0 - -	3.4 040	0.0 - -	2.5 220
3116	Mill Rock, northeast of		40 46.9	73 56.2	-0 23	+0 05	-0 29	-0 32	0.7	0.1	0.0 - -	2.3 103	0.0 - -	0.6 288
3121	Mill Rock, west of		40 46.8	73 56.5	-0 26	+0 08	-0 02	-0 17	0.4	0.2	0.0 - -	1.2 000	0.0 - -	1.0 180
3126	HELL GATE (off Mill Rock)		40 46.7	73 56.3	Daily predictions						0.0 - -	3.4 050	0.0 - -	4.6 230
	Roosevelt Island													
3131	west of, off 75th Street		40 46	73 57	-0 02	-0 04	-0 08	+0 07	1.1	1.0	0.0 - -	3.8 037	0.0 - -	4.7 215
3136	east of, off 36th Avenue		40 46	73 57	-0 08	-0 04	-0 08	-0 11	1.0	0.7	0.0 - -	3.5 030	0.0 - -	3.4 210
3141	west of, off 67th Street		40 45.74	73 57.24	+0 13	-0 08	+0 06	+0 11	1.1	0.9	0.0 - -	3.6 011	0.0 - -	4.0 230
3146	west of, off 63rd Street		40 45.58	73 57.27	-0 10	-0 08	0 00	+0 03	0.8	0.6	0.0 - -	2.8 036	0.0 - -	2.9 223
3151	east of		40 45.49	73 57.08	0 00	-0 06	+0 02	+0 07	0.8	0.6	0.0 - -	2.8 028	0.0 - -	2.6 200
3156	Manhattan, off 31st Street		40 44.38	73 58.17	+0 09	-0 11	-0 02	+0 36	0.4	0.5	0.0 - -	1.5 000	0.0 - -	2.1 175
3161	Newtown Creek entrance		40 44	73 57	Current weak and variable									
3166	Pier 57, off 19th Street		40 44	73 58	-0 08	+0 08	-0 08	+0 07	0.5	0.4	0.0 - -	1.8 355	0.0 - -	1.9 179
3171	Williamsburg Bridge, 0.3 mile north of		40 43.08	73 58.24	-0 05	+0 12	-0 01	+0 10	0.8	0.6	0.0 - -	2.7 020	0.0 - -	2.9 220
3176	Corlears Hook, south of, midstream <15>		40 42.5	73 58.6	-0 12	+0 01	-0 09	-0 01	0.9	0.7	0.0 - -	3.0 058	0.0 - -	3.0 233
3181	Brooklyn Bridge, 0.1 mile southwest of		40 42.2	74 00.0	-0 18	+0 08	-0 04	-0 07	0.9	0.8	0.0 - -	2.9 046	0.0 - -	3.5 222
3186	Governors I., N of (SEE CAUTION NOTE)		40 41.8	74 01.0	-0 16	+0 16	-0 20	+0 17	0.4	0.4	0.0 - -	1.2 094	0.0 - -	1.7 269
3191	Buttermilk Channel		40 41.15	74 00.81	-0 12	-0 18	-0 06	+0 18	0.5	0.5	0.0 - -	1.8 050	0.0 - -	2.4 220
	HARLEM RIVER													
3196	East 105th Street		40 47	73 56	-0 20	+0 08	-0 02	-0 17	0.4	0.2	0.0 - -	1.2 035	0.0 - -	1.0 215
3201	East 117th Street (midchannel) <16>		40 47.6	73 55.8	-1 16	+0 10			0.4	- -	0.0 - -	1.3 197		- - - -
3206	Willis Ave. Bridge, 0.1 mile NW of		40 48.3	73 55.8	-0 30	0 00	-0 12	-0 13	0.4	0.3	0.0 - -	1.2 140	0.0 - -	1.3 330
3211	Madison Ave. Bridge		40 48.8	73 56.1	-0 20	+0 18	-0 21	-0 14	0.5	0.4	0.0 - -	1.8 180	0.0 - -	1.7 000
3216	Macombs Dam Bridge		40 49.7	73 56.1	-0 20	+0 14	-0 22	-0 11	0.5	0.3	0.0 - -	1.7 180	0.0 - -	1.4 000
3221	High Bridge		40 50.5	73 55.9	-0 20	+0 08	-0 23	-0 08	0.6	0.4	0.0 - -	2.0 189	0.0 - -	2.0 015
3226	West 207th Street Bridge		40 51.8	73 54.9	-0 22	+0 05	-0 22	-0 02	0.6	0.4	0.0 - -	2.0 215	0.0 - -	2.0 035
3231	Broadway Bridge		40 52.4	73 54.7	-0 23	+0 08	-0 20	+0 04	0.6	0.5	0.0 - -	2.1 116	0.0 - -	2.3 299

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS, 1903

NO.	PLACE	METER DEPTH	POSITION Lat. N	POSITION Long. W	TIME DIFFERENCES Min. before Flood	Flood	Min. before Ebb	Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood		Maximum Flood		Minimum before Ebb		Maximum Ebb	
		ft	° '	° '	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	DELAWARE BAY and RIVER Time meridian, 75°W				on DELAWARE BAY ENTRANCE, p.58													
4206	Ben Davis Point, 0.8 mile southwest of..		39 16.9	75 18.2	+0 56	+0 59	+1 21	+1 00	0.7	0.4	0.0	- -	1.2	308	0.0	- -	0.8	122
4211	Cohansey River, 0.5 mile above entrance.		39 20.9	75 21.6	+1 29	+1 21	+1 39	+1 28	0.7	0.7	0.0	- -	1.2	074	0.0	- -	1.4	254
4216	Bridgeton (Broad Street Bridge) <1>....		39 25.6	75 14.2	- - -	+2 28	- - -	+2 31	0.1	0.2	0.0	- -	0.2	000	0.0	- -	0.3	180
4221	Arnold Point, channel abreast of.....		39 22.5	75 27.8	+2 25	+2 18	+2 03	+2 26	1.1	1.1	0.0	- -	2.0	336	0.0	- -	2.1	156
4226	Smyrna River entrance.....		39 21.9	75 30.8	+1 48	+1 42	+2 05	+2 07	0.7	0.8	0.0	- -	1.2	250	0.0	- -	1.5	070
4231	Stony Point, channel west of.....		39 27.1	75 33.8	+3 23	+2 50	+2 38	+3 06	0.8	1.0	0.0	- -	1.5	324	0.0	- -	1.9	151
4236	Appoquinimink River entrance.....		39 26.8	75 34.9	+2 33	+2 55	+2 22	+2 34	0.6	0.6	0.0	- -	1.0	231	0.0	- -	1.2	048
4241	Reedy Island (off end of pier).....		39 30.7	75 33.4	+3 01	+3 01	+2 54	+3 23	1.3	1.4	0.0	- -	2.4	027	0.0	- -	2.6	194
4246	Alloway Creek ent., 0.2 mile above.....		39 29.9	75 31.5	+2 21	+2 42	+2 19	+1 56	1.2	1.1	0.0	- -	2.1	129	0.0	- -	2.1	325
4251	New Bridge, Alloway Creek.....		39 31.6	75 27.1	+3 03	+3 57	+3 36	+3 36	0.7	0.7	0.0	- -	1.3	090	0.0	- -	1.4	270
4256	Reedy Point, 0.4 mile east of.....		39 33.53	75 33.13	+3 18	+3 02	+2 54	+4 00	1.0	1.2	0.0	- -	1.8	333	0.0	- -	2.3	166
4261	Reedy Point, 1.1 miles east of.....		39 33.58	75 32.47	+3 19	+3 11	+3 08	+3 36	1.0	0.9	0.0	- -	1.8	354	0.0	- -	1.7	179
4266	Salem River entrance.....		39 34.2	75 30.1	+3 46	+3 33	+3 37	+4 09	0.8	0.8	0.0	- -	1.5	062	0.0	- -	1.6	245
4271	Bulkhead Shoal Channel, off Del. City...		39 35.0	75 35.2	+3 16	+2 58	+3 03	+3 44	1.2	1.1	0.0	- -	2.1	308	0.0	- -	2.1	138
4276	Pea Patch Island, channel east of.....		39 36.0	75 33.9	+3 30	+3 13	+3 33	+4 09	1.3	1.2	0.0	- -	2.3	319	0.0	- -	2.3	148
4281	Penns Neck, 0.6 mile west of.....		39 37.05	75 34.92	+3 38	+3 38	+3 14	+3 31	0.9	0.9	0.0	- -	1.7	002	0.0	- -	1.7	167
4286	Penns Neck, 0.3 mile west of.....		39 37.07	75 34.58	+3 22	+3 07	+3 08	+3 37	1.0	0.9	0.0	- -	1.8	339	0.0	- -	1.7	152
4291	New Castle, channel abreast of.....		39 39.1	75 33.2	+4 04	+3 21	+3 34	+4 01	1.1	1.3	0.0	- -	1.9	051	0.0	- -	2.4	230
4296	Kelly Point, 0.2 mile northwest of.....		39 38.9	75 32.8	+3 43	+3 55	+3 24	+3 31	0.9	0.8	0.0	- -	1.6	049	0.0	- -	1.5	230
4301	Deepwater Point, channel northwest of...		39 42.1	75 30.6	+3 44	+3 54	+3 45	+3 55	1.7	1.4	0.0	- -	3.0	029	0.0	- -	2.6	215
4306	Christina River, 1 mile above entrance..		39 43	75 32	+3 16	+3 01	+2 58	+2 44	0.4	0.5	0.0	- -	0.7	300	0.0	- -	0.9	050
4311	Cherry Island Flats, channel east of....		39 44.3	75 29.1	+4 09	+4 08	+4 02	+3 57	0.9	0.7	0.0	- -	1.6	027	0.0	- -	1.4	207
4316	Oldsmans Point.....		39 45.9	75 28.4	+4 28	+3 42	+4 03	+4 40	0.9	0.8	0.0	- -	1.6	027	0.0	- -	1.5	210
4321	Marcus Hook.....		39 48.2	75 24.6	+4 58	+4 19	+4 02	+4 51	0.9	0.8	0.0	- -	1.7	061	0.0	- -	1.6	232
4326	Eddystone.....		39 50.8	75 20.5	+5 25	+4 41	+4 31	+4 55	0.9	1.2	0.0	- -	1.7	058	0.0	- -	2.2	242
4331	Essington Harbor.....		39 51.5	75 18.3	+4 09	+3 54	+4 04	+3 56	0.8	0.6	0.0	- -	1.4	096	0.0	- -	1.2	274
4336	Crab Point, 0.5 mile east of.....		39 50.8	75 17.0	+4 48	+4 44	+4 44	+4 58	1.2	1.0	0.0	- -	2.1	094	0.0	- -	1.9	268
4341	Hog Island, channel southeast of.....		39 52.0	75 12.9	+4 53	+4 53	+4 42	+4 52	1.1	1.2	0.0	- -	1.9	054	0.0	- -	2.2	231
4346	Schuylkill River entrance <1>.....		39 53.2	75 11.7	- - -	+3 20	- - -	+4 08	0.3	0.2	0.0	- -	0.5	356	0.0	- -	0.4	178
4351	Gloucester.....		39 53.4	75 08.1	+5 13	+5 02	+4 53	+5 00	1.2	1.1	0.0	- -	2.2	020	0.0	- -	2.0	210
4356	Greenwich Point, northeast of.....		39 54.5	75 07.6	+5 18	+4 53	+4 54	+5 01	0.9	0.8	0.0	- -	1.6	002	0.0	- -	1.6	188
4361	Camden Marine Terminals, E of Chan. <29>		39 56.4	75 08.2	+5 52	+5 13	+5 16	+5 07	0.7	0.6	0.0	- -	1.3	005	0.0	- -	1.1	174
4366	Fisher Point.....		39 58.9	75 04.2	+6 07	+5 46	+5 23	+5 06	0.8	0.9	0.0	- -	1.4	041	0.0	- -	1.7	223
4371	Torresdale, west of channel.....		40 02.4	74 59.4	+6 54	+5 56	+4 59	+5 46	0.5	0.8	0.0	- -	0.9	044	0.0	- -	1.6	223
4376	Rancocas Creek, off Delanco.....		40 02.6	74 57.6	+6 36	+6 25	+5 51	+6 08	0.6	0.5	0.0	- -	1.0	090	0.0	- -	0.9	272
4381	Bristol, south of.....	8	40 05.3	74 51.6	+6 55	+5 31	+4 57	+6 10	0.7	0.8	0.0	- -	1.3	024	0.0	- -	1.6	200
4386	Burlington Island, channel east of.....		40 05.7	74 50.2	+7 32	+5 46	+4 16	+6 46	0.5	0.9	0.0	- -	0.9	018	0.0	- -	1.8	204
4391	Whitehill <30>.....		40 08.2	74 44.2	- - -	- - -	- - -	+7 07	- -	0.7	0.0	- -	- -	- -	0.0	- -	1.4	233
	DEL., MD. and VA. COAST																	
4396	Indian River Inlet (bridge).....		38 37	75 04	- - -	+0 05	- - -	+0 10	1.0	1.1	0.0	- -	1.8	265	0.0	- -	2.1	085
4401	Fenwick Shoal Lighted Whistle Buoy 2....		38 25	74 46	See table 5.													
4406	Winter-Quarter Shoal Buoy 6WQS <31>.....		37 55	74 56	See table 5.													

TABLE 2. - CURRENT DIFFERENCES AND OTHER CONSTANTS, 1983

NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	AVERAGE SPEEDS AND DIRECTIONS Maximum Flood	AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb	AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	DEL., MD. and VA. COAST Time meridian, 75°W				on CHESAPEAKE BAY ENTRANCE, p.64									
4411	Cape Charles, 70 miles east of.....		37 05	74 51	See table 5.									
4416	Smith Island Shoal, southeast of.....	7	37 05.3	75 43.5	-2 14	-2 12	-2 04	-2 05	0.3	0.3	0.0 - -	0.3 298	0.0 - -	0.4 068
4421	Chesapeake Light, 4.4 miles northeast of		36 59	75 42	See table 5.									
4426	Cape Henry Light, 2.2 miles southeast of		36 53.9	75 58.7	-1 54	-1 18	-0 39	-1 41	1.0	0.6	0.0 - -	1.0 346	0.0 - -	0.9 165
	CHESAPEAKE BAY													
4431	Cape Henry Light, 1 mile north of.....		36 56.4	76 00.5	+0 04	-0 25	-0 08	-0 25	1.1	1.3	0.0 - -	1.1 280	0.0 - -	2.0 090
4436	Cape Henry Light, 1.8 miles north of....		36 57.4	76 00.1	-0 23	-0 11	+0 10	-0 17	1.2	1.0	0.0 - -	1.2 292	0.0 - -	1.5 099
4441	CHESAPEAKE BAY ENTRANCE.....	7	36 58.8	76 00.4	Daily predictions						0.0 - -	1.0 306	0.0 - -	1.5 126
4446	Cape Henry Light, 4.6 miles north of....		37 00.1	75 59.3	-1 05	-0 46	-0 10	-0 54	1.3	0.9	0.0 - -	1.3 294	0.0 - -	1.3 104
4451	Cape Charles Light, 9.5 mi. WSW of.....	r	37 03.7	76 05.4	-0 12	+0 08	+0 32	-0 05	1.5	0.9	0.0 - -	1.5 319	0.0 - -	1.4 126
4456	Cape Henry Light, 8.3 mi. northwest of..		37 02.2	76 06.6	-0 22	-0 12	+0 16	-0 05	1.0	0.7	0.0 - -	1.0 329	0.0 - -	1.1 133
4461	Lynnhaven Roads.....		36 55.1	76 04.9	-0 58	-0 37	-0 14	-0 41	0.8	0.6	0.0 - -	0.8 280	0.0 - -	0.9 070
4466	Lynnhaven Inlet bridge.....		36 54.4	76 05.6	-1 56	-2 05	-2 12	-3 01	0.6	0.9	0.0 - -	0.6 180	0.0 - -	1.4 000
	Chesapeake Bay Bridge Tunnel													
4471	Chesapeake Beach, 1.5 miles north of.		36 56.69	76 07.33	-0 09	-0 07	-0 23	-0 31	0.8	0.6	0.0 - -	0.8 305	0.0 - -	0.9 100
4476	Thimble Shoal Channel.....		36 58.33	76 06.67	-0 53	-0 46	-0 24	-0 39	1.4	0.9	0.0 - -	1.4 310	0.0 - -	1.3 095
4481	Tail of the Horseshoe.....		36 59.57	76 06.20	-0 33	-0 25	-0 13	-0 59	0.9	0.7	0.0 - -	0.9 300	0.0 - -	1.0 110
4486	Middle Ground, channel west of.....		37 03.00	76 05.00	-0 10	-0 20	-0 36	+0 04	1.6	0.9	0.0 - -	1.6 335	0.0 - -	1.3 150
4491	Chesapeake Channel.....		37 02.50	76 04.33	-0 33	-0 17	+0 03	-0 12	1.8	1.0	0.0 - -	1.8 335	0.0 - -	1.5 145
4496	Fisherman Island, 3.2 miles WSW of...		37 04.00	76 02.25	-1 00	-1 07	-0 46	-1 07	1.2	1.1	0.0 - -	1.2 330	0.0 - -	1.6 135
4501	Fisherman Island, 1.4 miles WSW of...		37 04.78	76 00.25	-1 47	-0 57	-0 41	-1 33	1.8	0.7	0.0 - -	1.8 330	0.0 - -	1.1 140
4506	Fisherman I., 1.8 miles south of.....		37 03.58	75 58.77	-1 04	-1 00	-0 27	-1 24	1.6	0.9	0.0 - -	1.6 320	0.0 - -	1.4 120
4511	Fisherman I., 0.4 mile west of.....		37 05.57	75 59.33	-0 59	-1 03	-0 35	-1 13	2.0	1.3	0.0 - -	2.0 005	0.0 - -	2.0 175
4516	Fisherman I., 1.1 miles northwest of.		37 06.50	76 00.00	-1 17	-0 35	-0 06	-0 50	1.8	1.1	0.0 - -	1.8 355	0.0 - -	1.6 165
4521	Cape Charles, off Wise Point.....	5	37 06.88	75 58.30	-0 29	-0 18	+0 27	+0 49	0.7	0.1	0.0 - -	0.7 305	0.0 - -	0.2 075
	Little Creek													
4526	North of east jetty.....	10	36 56.05	76 10.60	-2 00	-2 02	-1 42	-1 59	0.9	0.7	0.0 - -	0.9 280	0.0 - -	1.0 076
4531	0.5 mile north of west jetty.....	10	36 56.32	76 10.81	-1 37	-1 03	-0 42	-1 31	0.9	0.6	0.0 - -	0.9 274	0.0 - -	0.9 108
4536	Old Plantation Flats Light, west of.....		37 14.0	76 04.1	+0 53	+1 06	+1 26	+0 35	1.2	0.9	0.0 - -	1.2 005	0.0 - -	1.3 175
4541	York Spit Channel.....	7	37 12.9	76 08.5	+0 55	+0 55	+0 55	+0 55	0.8	0.7	0.0 - -	0.8 010	0.0 - -	1.1 195
4546	Wolf Trap Light, 0.5 mile west of.....		37 23.4	76 11.9	+1 05	+1 05	+1 05	+1 05	1.0	0.8	0.0 - -	1.0 015	0.0 - -	1.2 190
4551	Wolf Trap Light, 5.8 miles east of.....		37 23.1	76 04.3	+1 45	+1 45	+1 45	+1 45	0.9	0.9	0.0 - -	0.9 015	0.0 - -	1.3 175
4556	Stingray Point, 5.5 miles east of.....		37 35.0	76 10.4	+1 50	+2 41	+2 52	+2 01	1.0	0.6	0.0 - -	1.0 343	0.0 - -	0.9 179
4561	Stingray Point, 12.5 miles east of.....		37 33.8	76 02.3	+1 40	+2 05	+1 40	+2 05	1.0	0.5	0.0 - -	1.0 030	0.0 - -	0.8 175
4566	Smith Point, 4.5 miles east of.....		37 52.9	76 08.6	+3 11	+3 14	+3 14	+3 15	0.7	0.5	0.0 - -	0.7 352	0.0 - -	0.8 163
4571	Smith Point Light, 6 miles north of.....		37 58.9	76 11.4	+3 50	+3 35	+3 50	+3 35	0.4	0.7	0.0 - -	0.4 350	0.0 - -	1.0 135
4576	Point Lookin.....		38 06.6	76 13.1	+4 35	+4 15	+4 35	+4 15	0.4	0.3	0.0 - -	0.4 010	0.0 - -	0.5 160
4581	Point No Point.....		38 09.1	76 14.0	+5 15	+5 10	+5 15	+5 10	0.4	0.4	0.0 - -	0.4 355	0.0 - -	0.6 150
					on BALTIMORE HARBOR APPROACH, p.70									
4586	Cedar Point, 3.2 miles east of.....		38 18.3	76 18.35	- - -	-2 49	- - -	-3 32	0.2	0.8	0.0 - -	0.2 030	0.0 - -	0.6 175
4591	Cedar Point, 1.1 miles ENE of.....		38 18.27	76 21.10	-3 23	-2 50	-2 36	-3 42	0.5	0.8	0.0 - -	0.4 010	0.0 - -	0.6 185
4596	Drum Point, 2.8 miles northeast of.....		38 20.18	76 21.95	- - -	-3 12	- - -	-2 42	0.2	0.5	0.0 - -	0.2 335	0.0 - -	0.4 185

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NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	Maximum Flood	Minimum before Ebb	Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	CHESAPEAKE BAY Time meridian, 75°W				on BALTIMORE HARBOR APPROACH, p.70									
4601	Cove Point, 0.6 mile northeast of.....		38 23.45	76 22.19	-2 55	-3 04	-3 04	-2 51	0.9	1.0	0.0 - -	0.7 330	0.0 - -	0.8 155
4606	Cove Point, 2.5 miles east of.....		38 23.2	76 19.8	-2 39	-2 48	-2 44	-2 45	0.6	0.8	0.0 - -	0.5 310	0.0 - -	0.6 155
4611	Cove Point, 3.3 miles east of.....		38 23.65	76 18.95	-3 18	-3 41	-3 48	-3 20	0.5	0.6	0.0 - -	0.4 320	0.0 - -	0.5 160
4616	Kenwood Beach, 1.5 miles northeast of...		38 31.1	76 28.9	-1 56	-2 41	-2 46	-2 37	0.2	0.4	0.0 - -	0.2 340	0.0 - -	0.3 160
4621	James Island, 3.4 miles west of.....		38 31.5	76 25.2	-2 16	-2 39	-3 01	-2 02	0.5	0.4	0.0 - -	0.4 005	0.0 - -	0.3 175
4626	James Island, 2.5 miles WNW of.....		38 32.0	76 23.6	-2 31	-2 42	-2 18	-2 36	0.5	0.6	0.0 - -	0.4 000	0.0 - -	0.5 175
4631	Plum Point, 1.4 miles ESE of.....		38 36.75	76 28.65	-1 31	-1 37	-2 20	-2 04	0.2	0.7	0.0 - -	0.2 000	0.0 - -	0.6 155
4636	Sharps Island, 3.3 miles WNW of.....		38 38.13	76 26.00	- - -	-1 30	- - -	-1 57	0.5	0.4	0.0 - -	0.4 345	0.0 - -	0.3 185
4641	Holland Point, 1.6 miles east of.....		38 43.47	76 29.58	-1 05	-0 52	-1 20	-1 20	0.2	0.8	0.0 - -	0.2 010	0.0 - -	0.6 180
4646	Holland Point, 6.2 miles east of.....		38 43.9	76 23.8	-2 02	-2 07	-1 31	-1 44	0.4	0.3	0.0 - -	0.3 355	0.0 - -	0.2 135
4651	Holland Point, 4.7 miles ENE of.....		38 44.7	76 26.0	-0 50	-0 38	-1 05	-0 45	0.2	0.8	0.0 - -	0.2 340	0.0 - -	0.6 180
4656	Kent Point, 4 miles southwest of.....		38 47.50	76 26.00	-1 03	-1 04	-1 11	-1 05	0.6	0.6	0.0 - -	0.5 025	0.0 - -	0.5 210
4661	Kent Point, 1.3 miles south of.....		38 49.00	76 21.85	-3 27	-3 38	-3 53	-3 47	0.6	0.5	0.0 - -	0.4 055	0.0 - -	0.4 235
4666	Horseshoe Point, 1.7 miles east of.....		38 50.30	76 27.20	-0 52	-0 39	-0 49	-1 10	0.6	0.6	0.0 - -	0.5 005	0.0 - -	0.5 200
4671	Bloody Point Bar Light, 0.6 mi. NW of...	19	38 50.37	76 24.17	-0 08	-0 23	+0 02	-0 05	0.9	0.6	0.0 - -	0.7 035	0.0 - -	0.5 190
4676	Thomas Pt. Shoal Lt., 1.8 mi. SW of.....		38 52.50	76 27.70	-2 24	-2 27	-1 43	-2 17	0.5	0.4	0.0 - -	0.4 340	0.0 - -	0.3 190
4681	Thomas Pt. Shoal Lt., 0.4 mi. SE of.....		38 53.85	76 25.77	-0 14	-0 40	-1 06	-0 53	0.9	1.1	0.0 - -	0.7 010	0.0 - -	0.9 185
4686	Tolly Point, 1.6 miles east of.....		38 56.07	76 25.02	-0 03	-0 19	-0 32	-0 24	0.6	0.9	0.0 - -	0.5 355	0.0 - -	0.7 190
4691	Chesapeake Bay Bridge, main channel.....		38 59.50	76 23.10	+0 16	+0 08	-0 17	+0 13	0.9	1.1	0.0 - -	0.7 025	0.0 - -	0.9 230
4696	BALTIMORE HBR. APP. (off Sandy Point)...		39 00.78	76 22.10	Daily predictions						0.0 - -	0.8 025	0.0 - -	0.8 189
4701	Love Point, 1.3 miles ESE of.....		39 02.12	76 16.45	- - -	-0 39	-1 17	-0 57	0.3	0.4	0.0 - -	0.3 170	0.0 - -	0.3 345
4706	Love Point, 2.8 miles NNE of.....		39 04.7	76 16.3	Current weak and variable									
4711	Love Point, 2.5 miles north of.....		39 04.78	76 18.73	-0 48	+0 19	+0 27	-0 07	0.8	0.5	0.0 - -	0.6 055	0.0 - -	0.4 240
4716	Craighill Channel, NE of Mountain Pt....		39 04.88	76 23.67	+0 28	+0 40	+0 25	+0 34	0.8	0.9	0.0 - -	0.6 350	0.0 - -	0.7 175
4721	Craighill Angle, right outside quarter..		39 07.70	76 23.27	+0 12	+0 27	+0 34	+0 23	0.6	0.6	0.0 - -	0.5 345	0.0 - -	0.5 170
4726	Sevenfoot Knoll Light, 0.8 mi. NE of....		39 09.83	76 23.67	-0 07	+0 44	+0 44	+0 27	0.5	0.2	0.0 - -	0.4 345	0.0 - -	0.2 160
4731	Swan Point, 2.1 miles west of.....		39 08.75	76 19.67	+1 16	+1 01	+1 05	+0 55	0.6	0.8	0.0 - -	0.5 355	0.0 - -	0.6 220
4736	Swan Point, 1.6 miles northwest of.....		39 09.75	76 18.28	+0 53	+0 44	+0 38	+0 57	0.8	0.9	0.0 - -	0.6 020	0.0 - -	0.7 215
4741	North Point, 2.5 miles northeast of.....	7	39 12.87	76 23.72	+1 25	+1 00	+0 53	+1 06	0.4	0.5	0.0 - -	0.3 035	0.0 - -	0.4 225
4746	Pooles Island, 4 miles southwest of.....		39 13.60	76 19.88	+0 59	+0 48	+0 56	+1 12	0.6	0.8	0.0 - -	0.5 025	0.0 - -	0.6 210
4751	Tolchester Beach, 0.4 mile WNW of.....		39 13.13	76 15.08	+1 52	+1 37	+1 28	+1 35	0.9	1.1	0.0 - -	0.7 015	0.0 - -	0.9 225
4756	Pooles Island, 0.8 mile south of.....		39 15.7	76 16.4	+1 29	+1 24	+1 12	+1 20	0.9	1.2	0.0 - -	0.7 060	0.0 - -	1.0 255
4761	Miller Island, 1.5 miles ENE of.....	7	39 16.5	76 19.9	+0 11	+0 15	+0 37	+0 25	0.6	0.3	0.0 - -	0.5 000	0.0 - -	0.2 185
4766	Pooles Island, 1.4 miles east of.....		39 17.2	76 13.9	+1 48	+1 31	+1 26	+1 26	1.0	1.5	0.0 - -	0.8 030	0.0 - -	1.2 215
4771	Robins Point, 0.7 mile ESE of.....	5	39 17.75	76 16.10	-0 03	-0 14	+0 37	-0 13	1.4	1.0	0.0 - -	1.1 025	0.0 - -	0.8 210
4776	Worton Point, 1.1 miles northwest of....		39 19.9	76 12.0	+1 43	+1 43	+1 38	+1 32	1.4	1.5	0.0 - -	1.1 040	0.0 - -	1.2 245
4781	Howell Point, 0.4 mile NNW of.....		39 22.6	76 06.9	+1 28	+1 24	+1 20	+1 18	1.1	1.1	0.0 - -	0.9 080	0.0 - -	0.9 245
4786	Grove Point, 0.8 mile northwest of.....		39 24.0	76 03.1	+1 54	+1 58	+1 41	+1 39	1.0	1.0	0.0 - -	0.8 060	0.0 - -	0.8 235
4791	Turkey Point, 1.4 miles WSW of.....		39 26.25	76 02.08	+1 27	+1 19	+1 24	+1 22	0.8	0.9	0.0 - -	0.6 030	0.0 - -	0.7 220
4796	Spesutie Island, channel north of.....	7	39 28.83	76 04.90	+1 42	+1 20	+1 49	+1 40	0.8	0.6	0.0 - -	0.6 285	0.0 - -	0.5 100
4801	Rocky Point, 0.5 mile west of.....		39 29.2	76 00.2	+2 15	+2 15	+2 15	+2 15	0.6	0.8	0.0 - -	0.5 030	0.0 - -	0.6 190
4806	Red Point, 0.2 mile W of, Northeast R...	7	39 31.75	75 59.08	+1 42	+1 28	+1 57	+1 47	0.9	0.6	0.0 - -	0.7 - -	0.0 - -	0.5 - -
4811	Havre de Grace, Susquehanna River.....		39 33.13	76 05.08	Current weak and variable									

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NO.	PLACE	METER DEPTH	POSITION Lat.	POSITION Long.	TIME DIFFERENCES Min. before Flood	TIME DIFFERENCES Flood	TIME DIFFERENCES Min. before Ebb	TIME DIFFERENCES Ebb	SPEED RATIOS Flood	SPEED RATIOS Ebb	AVERAGE SPEEDS AND DIRECTIONS Minimum before Flood	AVERAGE SPEEDS AND DIRECTIONS Maximum Flood	AVERAGE SPEEDS AND DIRECTIONS Minimum before Ebb	AVERAGE SPEEDS AND DIRECTIONS Maximum Ebb
		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots deg.	knots deg.	knots deg.	knots deg.
	MOBJACK BAY and PIANKATANK RIVER Time meridian, 75°W				on CHESAPEAKE BAY ENTRANCE, p.64									
5176	New Point Comfort, 1.5 miles west of....		37 17.7	76 18.4	-2 59	-1 58	-2 03	-2 48	0.6	0.3	0.0 - -	0.6 320	0.0 - -	0.5 130
5181	Bland Point, Piankatank River.....		37 31.8	76 21.9	-0 30	-0 30	-0 30	-0 30	0.4	0.1	0.0 - -	0.4 300	0.0 - -	0.2 125
5186	Doctor Point, 0.4 mile west of.....		37 31.1	76 27.0	-0 28	-0 58	-1 17	-0 37	0.4	0.3	0.0 - -	0.4 311	0.0 - -	0.4 142
	RAPPAHANNOCK RIVER													
5191	Mosquito Point, 0.9 mile SSE of.....		37 35.72	76 21.08	+0 56	+1 31	+1 38	+0 41	0.7	0.6	0.0 - -	0.7 265	0.0 - -	0.8 090
5196	Mosquito Point.....		37 35.8	76 21.5	+0 45	+0 45	+0 45	+0 45	0.6	0.4	0.0 - -	0.6 290	0.0 - -	0.6 115
5201	Orchard Point, 1.0 mile south of.....		37 37.97	76 27.45	+0 49	+1 35	+1 50	+0 52	0.5	0.4	0.0 - -	0.5 270	0.0 - -	0.6 085
5206	Millenbeck Wharf, Corrotoman River.....		37 39.9	76 29.0	- - -	- - -	- - -	- - -	- -	- -	0.0 - -	0.3 000	0.0 - -	0.3 186
5211	Towles Point.....		37 37.8	76 30.4	+1 06	+1 07	+2 10	+1 25	0.6	0.3	0.0 - -	0.6 274	0.0 - -	0.5 103
5216	Rogue Point, 0.8 mile WNW of.....		37 40.28	76 33.20	- - -	+1 44	- - -	+1 27	0.6	0.4	0.0 - -	0.6 000	0.0 - -	0.6 195
5221	Waterview, 1.3 miles NNE of.....		37 44.95	76 35.92	+1 41	+1 59	+2 46	+2 10	0.7	0.4	0.0 - -	0.7 340	0.0 - -	0.6 155
5226	Tarpley Point, 1.5 miles south of.....		37 46.15	76 39.12	+2 16	+2 37	+3 20	+2 39	0.7	0.5	0.0 - -	0.7 300	0.0 - -	0.7 105
5231	Jones Point, 1.4 miles NNW of.....		37 48.03	76 41.58	+2 04	+2 23	+3 19	+2 27	1.1	0.6	0.0 - -	1.1 315	0.0 - -	0.9 105
5236	Sharps, 1.2 miles south of.....		37 48.18	76 41.92	+2 19	+2 46	+3 52	+3 01	0.9	0.5	0.0 - -	0.9 290	0.0 - -	0.8 095
5241	Bowlers Rock, 0.2 mile north of.....		37 49.58	76 44.00	+2 27	+2 41	+3 37	+2 50	1.0	0.7	0.0 - -	1.0 315	0.0 - -	1.1 135
5246	Accaceek Point, 0.3 mile southwest of...		37 52.52	76 46.40	+2 40	+2 48	+3 27	+3 13	1.2	0.7	0.0 - -	1.2 335	0.0 - -	1.0 150
5251	Tappahannock Bridge, 1.8 miles SE of....		37 55.10	76 49.27	+3 08	+3 07	+3 56	+3 28	1.4	0.9	0.0 - -	1.4 315	0.0 - -	1.3 105
5256	Tappahannock Bridge.....		37 55.0	76 51.2	+3 40	+3 40	+3 40	+3 40	1.3	0.8	0.0 - -	1.3 315	0.0 - -	1.2 135
5261	Port Royal.....		38 10.5	77 11.4	+6 10	+6 10	+6 10	+6 10	0.7	0.5	0.0 - -	0.7 310	0.0 - -	0.7 130
	POCOMOKE SOUND													
5266	Pocomoke Sound Approach.....		37 38.00	75 57.90	- - -	+1 12	- - -	+1 31	0.7	0.5	0.0 - -	0.7 009	0.0 - -	0.7 196
5271	Pungoteague Creek entrance.....	6	37 40.48	75 51.90	- - -	- - -	- - -	- - -	- -	- -	0.0 - -	0.3 094	0.0 - -	0.2 254
5276	Watts Island, 4 miles south of.....	7	37 43.2	75 54.0	+0 17	+0 01	-0 27	-0 04	0.6	0.4	0.0 - -	0.6 027	0.0 - -	0.6 247
5281	Watts Island, 2.2 miles east of.....		37 47.9	75 50.6	+0 44	+1 10	+1 40	+1 03	1.3	0.9	0.0 - -	1.3 027	0.0 - -	1.3 209
5286	Pocomoke R., 0.5 mile below Shelltown...		37 58.3	75 38.7	+3 30	+3 00	+3 30	+3 00	1.1	0.6	0.0 - -	1.1 045	0.0 - -	0.9 170
	TANGIER SOUND													
5291	Tangier Sound Light, 1.5 miles NE of....		37 48.5	75 57.4	+1 30	+2 02	+2 15	+1 39	1.2	0.7	0.0 - -	1.2 014	0.0 - -	1.1 220
5296	Jane's Island.....		38 00.0	75 54.5	+3 40	+3 25	+3 40	+3 25	0.9	0.6	0.0 - -	0.9 000	0.0 - -	0.9 210
5301	Kedges Straits, off Solomons Lump.....		38 03.1	76 00.8	+0 20	+0 32	+0 50	+0 09	0.9	0.8	0.0 - -	0.9 104	0.0 - -	1.2 280
5306	Manokin River entrance.....		38 05.5	75 53.6	- - -	+2 04	- - -	+2 32	0.6	0.4	0.0 - -	0.6 019	0.0 - -	0.6 182
5311	Deal Island, 0.9 mile west of.....		38 08.2	75 58.7	+3 08	+3 26	+3 33	+3 15	0.9	0.7	0.0 - -	0.9 354	0.0 - -	1.0 179
5316	Frog Point, 1.6 miles south of.....		38 12.6	75 57.3	+3 19	+3 00	+3 41	+3 31	1.0	0.7	0.0 - -	1.0 048	0.0 - -	1.1 240
	Wicomico River													
5321	Victor Point, 0.8 mile southwest of..		38 14.3	75 51.8	+3 10	+2 54	+3 49	+3 34	0.6	0.6	0.0 - -	0.6 034	0.0 - -	0.9 242
5326	Whitehaven.....		38 15.9	75 47.5	+2 56	+3 45	+4 02	+3 01	1.1	0.7	0.0 - -	1.1 089	0.0 - -	1.1 284
5331	Whitehaven, 2.5 miles above.....	4	38 17.8	75 45.5	+3 00	+3 13	+3 45	+2 55	1.0	0.7	0.0 - -	1.0 006	0.0 - -	1.1 188
5336	Salisbury, 2 miles below.....	4	38 20.4	75 38.3	+3 23	+3 31	+4 03	+3 28	0.6	0.5	0.0 - -	0.6 085	0.0 - -	0.8 258
5341	Sandy Point, Nanticoke River.....		38 14.8	75 55.7	+3 14	+3 36	+4 21	+3 39	1.2	0.7	0.0 - -	1.2 000	0.0 - -	1.1 182

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		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	PORT ROYAL SOUND Time meridian, 75°W				on CHARLESTON HARBOR, p.82													
6726	Beaufort River	15	32 24.2	80 40.3	+0 31	+0 45	+1 04	+0 21	0.4	0.4	0.1	286	0.9	012	0.0	- -	1.0	200
6731	Beaufort, Beaufort River	12	32 25.8	80 40.5	+0 22	+0 44	+1 11	+0 05	0.6	0.5	0.0	- -	1.1	073	0.0	- -	1.1	257
6736	Beaufort Airport, Beaufort River	15	32 27.0	80 39.8	+0 52	+1 05	+1 24	+0 56	0.5	0.4	0.0	- -	0.9	333	0.0	- -	0.9	152
6741	Brickyard Creek	10	32 28.4	80 41.5	+1 15	-0 04	+2 53	+2 46	0.4	0.4	0.0	- -	0.8	351	0.0	- -	0.8	171
6746	Skull Creek, north entrance		32 15.8	80 44.5	-2 23	-1 54	-1 55	-2 26	0.4	0.5	0.0	- -	0.7	222	0.0	- -	1.2	035
6751	Daws Island, SE of, Broad River	15	32 18.1	80 43.5	+0 13	-0 29	+0 42	+0 19	0.7	0.7	0.0	- -	1.4	330	0.1	048	1.5	150
6756	Parris Island Lookout Tower, Broad River	15	32 18.7	80 42.4	+0 06	-0 41	+0 32	+0 04	0.6	0.6	0.0	- -	1.1	339	0.0	- -	1.4	152
6761	Daws Island, south of, Chechessee River	15	32 17.2	80 44.6	-0 02	-0 56	+0 37	+0 19	0.5	0.6	0.1	232	1.0	317	0.1	048	1.3	142
6766	Lemon Island South, Chechessee River	10	32 21.0	80 48.4	0 00	+0 45	+0 41	-0 14	0.5	0.6	0.0	- -	0.9	359	0.0	- -	1.3	175
6771	Broad River Bridge, S of, Broad River	15	32 22.9	80 46.6	+0 19	-0 49	+0 52	-0 05	0.6	0.6	0.0	- -	1.1	341	0.0	- -	1.5	156
6776	Byrd Creek Entrance, SE of, Broad River	12	32 27.4	80 49.1	+0 54	+0 17	+1 35	+0 40	0.5	0.4	0.0	- -	0.9	354	0.0	- -	1.0	174
6781	Little Barnwell I., E of, Whale Branch R	6	32 30.1	80 47.2	+1 08	+2 29	+1 57	+0 28	0.5	0.4	0.0	- -	1.0	354	0.0	- -	0.8	175
	CALIBOGUE SOUND				on SAVANNAH RIVER ENTRANCE, p.88													
6786	Braddock Point, SW of, Calibogue Sound	10	32 06.3	80 50.2	-0 55	+0 04	+0 11	-1 17	1.0	0.8	0.0	- -	1.6	006	0.1	095	2.0	183
6791	Haig Point Light, NW of, Cooper River	10	32 08.9	80 50.5	-1 31	-0 17	-0 25	-1 25	0.5	0.5	0.0	- -	0.8	278	0.0	- -	1.4	094
6796	Ramshorn Creek Light, E of, Cooper River	6	32 07.8	80 52.9	-0 34	-1 05	+0 30	-1 30	0.6	0.5	0.0	- -	1.0	280	0.0	- -	1.3	098
6801	Spanish Wells, Calibogue Sound	30	32 11.2	80 47.1	-0 54	+0 39	+0 27	-1 23	0.8	0.6	0.0	- -	1.4	028	0.0	- -	1.5	204
6806	Skull Creek, south entrance	10	32 13.4	80 47.1	-0 02	+2 45	+1 38	+0 42	0.5	0.4	0.0	- -	0.7	053	0.1	309	0.9	231
6811	MacKay Creek, south entrance	10	32 13.2	80 47.4	-0 34	-0 09	+0 27	-0 39	0.4	0.4	0.0	- -	0.7	033	0.0	- -	1.2	212
	NEW and WRIGHT RIVERS																	
6816	Bloody Pt., 0.5 mile north of, New R		32 05.3	80 52.8	-1 43	-0 12	-0 38	-2 26	0.8	0.5	0.0	- -	1.2	332	0.0	- -	1.3	147
6821	Bloody Pt., 0.5 mile west of, New R		32 04.9	80 53.0	-1 27	-0 33	-0 21	-1 39	1.1	0.7	0.0	- -	1.7	267	0.0	- -	1.8	092
6826	Wright R., 0.2 mile above Walls Cut		32 05.1	80 55.3	-1 18	-0 28	-0 23	-1 29	0.7	0.6	0.0	- -	1.2	332	0.0	- -	1.6	142
6831	Fields Cut (39)		32 05	80 57			-1 45	-2 04		0.7					0.0	- -	1.9	042
6836	Walls Cut, Turtle Island	6	32 04.9	80 55.0	-3 09	-1 09	-0 57	-3 18	0.6	0.4	0.2	087	1.0	294	0.1	060	0.9	100
6841	Daufuskie Landing Light, south of	10	32 06.1	80 53.9	-0 33	+0 52	+0 17	-1 58	0.9	0.7	0.0	- -	1.5	043	0.0	- -	1.7	226
	SAVANNAH RIVER																	
6851	Savannah Light, 1.2 miles southeast of		31 57	80 40	See table 5.													
6861	SAVANNAH RIVER ENT. (between jetties)		32 02.2	80 51.5	Daily predictions						0.0	- -	1.6	260	0.0	- -	2.6	082
6871	Fort Pulaski		32 02.2	80 54.1	+0 02	+0 39	+0 30	-0 04	1.1	1.2	0.0	- -	1.8	283	0.0	- -	3.1	098
6881	Fort Pulaski, 1.8 miles above		32 02.7	80 55.9	-0 15	+0 06	+0 14	-0 01	1.4	1.1	0.0	- -	2.2	316	0.0	- -	2.8	140
6891	Fort Pulaski, 4.8 miles above		32 04.5	80 58.6	-0 04	+0 19	+0 21	-0 29	1.3	1.2	0.0	- -	2.1	296	0.0	- -	3.0	116
6896	McQueen Island Cut	10	32 03.9	80 59.2	-3 19	-2 57	-0 49	-2 57	0.4	0.5	0.0	- -	0.7	251	0.0	- -	1.2	069
						-0 25			0.2				0.4	252				
						+0 55			0.5				0.8	249				
6901	Elba Island Cut, NE of, Savannah River	10	32 04.4	80 57.9	-0 14	+0 03	-0 22	-0 27	0.9	1.0	0.1	202	1.4	288	0.1	183	2.6	104
6906	Elba Island, NE of, Savannah River	10	32 05.4	80 59.6	+0 21	+0 28	-0 20	-0 40	0.7	1.0	0.0	- -	1.1	329	0.0	- -	2.5	149
6911	Elba Island, west of, Savannah River	10	32 05.7	81 01.2	-0 03	+0 04	-0 15	-1 06	0.6	0.6	0.0	- -	0.9	219	0.0	- -	1.6	040
6921	Fig Island, north of, Back River		32 05.1	81 03.0	-0 26	+0 54	-0 10	-1 13	0.6	0.6	0.0	- -	1.0	280	0.0	- -	1.5	094
6931	South Channel, western end		32 05.3	81 01.0	+0 02	+0 06	-0 18	-0 48	0.6	0.6	0.0	- -	1.0	300	0.0	- -	1.5	122

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		ft	° ' N	° ' W	h. m.	h. m.	h. m.	h. m.			knots	deg.	knots	deg.	knots	deg.	knots	deg.
	BOCA CIEGA BAY and ST. JOSEPH SOUND Time meridian, 90°W				on TAMPA BAY ENTRANCE, p.112													
8731	The Narrows (Indian Rocks Beach Br.)....		27 52.6	82 51.0	-0 55	-0 38	-0 55	-1 16	0.5	0.2	0.0	- -	0.6	180	0.0	- -	0.2	000
8741	Clearwater Pass, 0.2 mi. NE of Sand Key.		27 57.4	82 49.4	-2 56	-3 02	-1 56	-2 12	1.3	0.8	0.0	- -	1.3	179	0.0	- -	1.1	348
8751	Clearwater Harbor.....		27 57.9	82 48.4	- - -	- - -	- - -	- - -	- -	- -	0.0	- -	0.4	021	0.0	- -	0.3	214
8761	St. Joseph Sound, off.....		28 05.0	82 55.0	- - -	- - -	- - -	- - -	- -	- -	0.0	- -	0.4	018	0.0	- -	0.6	195
					on MIAMI HARBOR ENTRANCE, p.100													
8771	Anclote Anchorage.....		28 10.0	82 49.8	+2 42	+2 24	+2 28	+2 18	0.3	0.4	0.0	- -	0.6	006	0.0	- -	0.8	195
	APALACHEE BAY				on TAMPA BAY ENTRANCE, p.112													
8781	St. Marks River approach.....		30 02.8	84 10.8	-1 29	-0 59	+0 12	-0 30	0.6	0.4	0.0	- -	0.6	339	0.0	- -	0.5	170
8791	Four Mile Point, St. Marks River.....		30 06.7	84 12.2	-0 45	-0 27	+0 46	-0 48	0.4	0.3	0.0	- -	0.4	358	0.0	- -	0.4	187
8801	St. Marks, St. Marks River.....		30 09.3	84 12.1	+1 06	+0 51	-0 01	+0 01	0.3	0.3	0.0	- -	0.3	067	0.0	- -	0.4	247
	PENSACOLA BAY Time meridian, 90°W				on MOBILE BAY ENTRANCE, p.118													
8811	Pensacola Bay entrance, midchannel.....		30 20.1	87 18.0	-0 48	-0 31	+0 18	-1 15	1.1	1.2	0.0	- -	1.6	074	0.0	- -	1.8	256
	MOBILE BAY																	
8821	Main Ship Channel entrance.....		30 09.2	88 03.2	- - -	+0 50	- - -	+0 50	0.5	0.7	0.2	235	0.7	344	0.0	175	1.0	182
8831	MOBILE BAY ENTRANCE (off Mobile Point)..		30 13.6	88 02.1	Daily predictions						0.0	- -	1.4	027	0.0	- -	1.5	190
8841	Channel, 6 miles N of Mobile Point.....		30 19.8	88 01.7	+0 15	+1 16	+1 26	+0 43	0.4	0.3	0.0	- -	0.6	032	0.0	- -	0.5	208
8851	Great Point Clear, channel west of.....		30 29.4	88 01.1	Current weak and variable													
8861	Mobile River entrance.....		30 40.2	88 02.0	+5 36	+4 54	+2 44	+2 45	0.2	0.5	0.0	- -	0.3	333	0.0	- -	0.7	151
8871	Tensaw River entrance (bridge).....		30 40.9	88 00.7	+2 04	+1 35	-1 00	-0 21	0.3	0.7	0.0	- -	0.4	029	0.0	- -	1.0	222
8881	Pass Aux Herons Entrance to Mississippi Sound <48>...		30 17.3	88 07.8	+0 09	+0 15	+0 22	+0 02	0.9	0.9	0.0	- -	1.3	068	0.0	- -	1.3	245
	MISSISSIPPI SOUND																	
8891	Pascagoula River highway bridge <27>....		30 22.3	88 33.8	- - -	+0 48	- - -	-1 02	0.9	0.8	0.0	- -	1.2	016	0.0	- -	1.2	201
	LOUISIANA COAST																	
8901	Quatre Bayoux Pass, Barataria Bay.....		29 18.6	89 51.1	+1 37	+1 04	+0 43	+0 06	0.9	0.9	0.0	- -	1.2	288	0.0	- -	1.3	103
8911	Pass Abel, Barataria Bay.....		29 17.7	89 54.2	+0 53	+1 00	+0 13	-0 03	0.6	1.1	0.0	- -	0.9	317	0.0	- -	1.6	143
8921	Barataria Pass, Barataria Bay.....		29 16.3	89 56.9	+2 29	+1 23	+1 01	+0 19	1.1	0.9	0.0	- -	1.5	315	0.0	- -	1.3	120
8931	Barataria Bay, 1.1 mi. NE of Manilla....		29 26.2	89 57.6	+4 41	+3 35	+3 10	+4 12	0.3	0.3	0.0	- -	0.4	356	0.0	- -	0.5	160
8941	Caminada Pass, Barataria Bay.....		29 11.9	90 02.8	+1 44	+0 03	+0 56	+0 38	1.1	1.0	0.0	- -	1.5	297	0.0	- -	1.5	118
8951	Seabrook Bridge, New Orleans <1>.....		30 01.9	90 02.1	- - -	+7 37	- - -	+7 57	0.9	0.6	0.0	- -	1.2	350	0.0	- -	0.9	170

TABLE 3.—VELOCITY OF CURRENT AT ANY TIME

EXPLANATION

Though the predictions in this publication give only the slacks and maximum currents, the velocity of the current at any intermediate time can be obtained approximately by the use of this table. Directions for its use are given below the table.

Before using the table for a place listed in table 2, the predictions for the day in question should first be obtained by means of the differences and ratios given in table 2.

The examples below follow the numbered steps in the directions.

Example 1.—Find the velocity of the current in The Race at 6:00 on a day when the predictions which immediately precede and follow 6:00 are as follows:

(1)	Slack Water	Maximum (Flood)	
	Time	*Time*	*Velocity*
	4:18	7:36	3.2 knots

Directions under the table indicate table A is to be used for this station.

(2) Interval between slack and maximum flood is 7:36 − 4:18 = 3ʰ18ᵐ. Column heading nearest to 3ʰ18ᵐ is 3ʰ20ᵐ.

(3) Interval between slack and time desired is 6:00 − 4:18 = 1ʰ42ᵐ. Line labeled 1ʰ40ᵐ is nearest to 1ʰ42ᵐ.

(4) Factor in column 3ʰ20ᵐ and on line 1ʰ40ᵐ is 0.7. The above flood velocity of 3.2 knots multiplied by 0.7 gives a flood velocity of 2.24 knots (or 2.2 knots, since one decimal is sufficient) for the time desired.

Example 2.—Find the velocity of the current in the Harlem River at Broadway Bridge at 16:30 on a day when the predictions (obtained using the difference and ratio in table 2) which immediately precede and follow 16:30 are as follows:

(1)	Maximum (Ebb)		Slack Water
	Time	*Velocity*	*Time*
	13:49	2.5 knots	17:25

Directions under the table indicate table B is to be used, since this station in table 2 is referred to Hell Gate.

(2) Interval between slack and maximum ebb is 17:25 − 13:49 = 3ʰ36ᵐ. Hence, use column headed 3ʰ40ᵐ.

(3) Interval between slack and time desired is 17:25 − 16:30 = 0ʰ55ᵐ. Hence, use line labeled 1ʰ00ᵐ.

(4) Factor in column 3ʰ40ᵐ and on line 1ʰ00ᵐ is 0.5. The above ebb velocity of 2.5 knots multiplied by 0.5 gives an ebb velocity of 1.2 knots for the desired time.

When the interval between slack and maximum current is greater than 5ʰ40ᵐ, enter the table with one-half the interval between slack and maximum current and one-half the interval between slack and the desired time and use the factor thus found.

TABLE 3.—VELOCITY OF CURRENT AT ANY TIME

TABLE A

Interval between slack and desired time	Interval between slack and maximum current													
	h. m. 1 20	h. m. 1 40	h. m. 2 00	h. m. 2 20	h. m. 2 40	h. m. 3 00	h. m. 3 20	h. m. 3 40	h. m. 4 00	h. m. 4 20	h. m. 4 40	h. m. 5 00	h. m. 5 20	h. m. 5 40
h. m.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.
0 20	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0 40	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
1 00	0.9	0.8	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3
1 20	1.0	1.0	0.9	0.8	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4
1 40	.....	1.0	1.0	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.4
2 00	.....	.....	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.5
2 20	.....	.....	.....	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.6	0.6
2 40	.....	.....	.....	.....	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.7
3 00	.....	.....	.....	.....	.....	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.7
3 20	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8
3 40	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	0.9	0.9	0.9	0.9
4 00	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	0.9	0.9
4 20	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	0.9
4 40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0
5 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0
5 20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0
5 40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0

TABLE B

Interval between slack and desired time	Interval between slack and maximum current													
	h. m. 1 20	h. m. 1 40	h. m. 2 00	h. m. 2 20	h. m. 2 40	h. m. 3 00	h. m. 3 20	h. m. 3 40	h. m. 4 00	h. m. 4 20	h. m. 4 40	h. m. 5 00	h. m. 5 20	h. m. 5 40
h. m.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.	f.
0 20	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
0 40	0.8	0.7	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3
1 00	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4
1 20	1.0	1.0	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5
1 40	.....	1.0	1.0	0.0	0.0	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6
2 00	.....	.....	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.6
2 20	.....	.....	.....	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.7
2 40	.....	.....	.....	.....	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.7
3 00	.....	.....	.....	.....	.....	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.8	0.8
3 20	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.8
3 40	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	0.9	0.9	0.9
4 00	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	0.9	0.9
4 20	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0	0.9
4 40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0	1.0
5 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0	1.0
5 20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.0
5 40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.0

Use table A for all places except those listed below for table B.
Use table B for Cape Cod Canal, Hell Gate, Chesapeake and Delaware Canal and all stations in table 2 which are referred to them.

1. From predictions find the time of slack water and the time and velocity of maximum current (flood or ebb), one of which is immediately before and the other after the time for which the velocity is desired.
2. Find the interval of time between the above slack and maximum current, and enter the top of table A or B with the interval which most nearly agrees with this value.
3. Find the interval of time between the above slack and the time desired, and enter the side of table A or B with the interval which most nearly agrees with this value.
4. Find, in the table, the factor corresponding to the above two intervals, and multiply the maximum velocity by this factor. The result will be the approximate velocity at the time desired.

TABLE 4.—DURATION OF SLACK

The predicted times of slack water given in this publication indicate the instant of zero velocity, which is only momentary. There is a period each side of slack water, however, during which the current is so weak that for practical purposes it may be considered as negligible.

The following tables give, for various maximum currents, the approximate period of time during which weak currents not exceeding 0.1 to 0.5 knot will be encountered. This duration includes the last of the flood or ebb and the beginning of the following ebb or flood, that is, half of the duration will be before and half after the time of slack water.

Table A should be used for all places *except* those listed below for table B.

Table B should be used for **Cape Cod Canal, Hell Gate, Chesapeake and Delaware Canal,** and all stations in table 2 which are referred to them.

Duration of weak current near time of slack water

TABLE A

Maximum current	Period with a velocity not more than—				
	0.1 knot	0.2 knot	0.3 knot	0.4 knot	0.5 knot
Knots	*Minutes*	*Minutes*	*Minutes*	*Minutes*	*Minutes*
1.0	23	46	70	94	120
1.5	15	31	46	62	78
2.0	11	23	35	46	58
3.0	8	15	23	31	38
4.0	6	11	17	23	29
5.0	5	9	14	18	23
6.0	4	8	11	15	19
7.0	3	7	10	13	16
8.0	3	6	9	11	14
9.0	3	5	8	10	13
10.0	2	5	7	9	11

TABLE B

Maximum current	Period with a velocity not more than—				
	0.1 knot	0.2 knot	0.3 knot	0.4 knot	0.5 knot
Knots	*Minutes*	*Minutes*	*Minutes*	*Minutes*	*Minutes*
1.0	13	23	46	66	89
1.5	8	18	28	39	52
2.0	6	13	20	28	36
3.0	4	8	13	18	22
4.0	3	6	9	13	17
5.0	3	5	8	10	13

When there is a difference between the velocities of the maximum flood and ebb preceding and following the slack for which the duration is desired, it will be sufficiently accurate for practical purposes to find a separate duration for each maximum velocity and take the average of the two as the duration of the weak current.

CURRENT DIAGRAMS

EXPLANATION

"Current diagram" is a graphic table that shows the velocities of the flood and ebb currents and the times of slack and strength over a considerable stretch of the channel of a tidal waterway. At definite intervals along the channel the velocities of the current are shown with reference to the times of turning of the current at some reference station. This makes it a simple matter to determine the approximate velocity of the current along the channel for any desired time.

In using the diagrams, the desired time should be converted to hours before or after the time of the *nearest* predicted slack water at the reference station.

Besides showing in compact form the velocities of the current and their changes through the flood and ebb cycles, the current diagram serves two other useful purposes. By its use the mariner can determine the most advantageous time to pass through the waterway in order to carry the most favorable current and also the velocity and direction of the current that will be encountered in the channel at any time.

Each diagram represents average durations and average velocities of flood and ebb. The durations and velocities of flood and ebb vary from day to day. Therefore predictions for the reference station at times will differ from average conditions and when precise results are desired the diagrams should be modified to represent conditions at such particular times. This can be done by changing the width of the shaded and unshaded portions of the diagram to agree in hours with the durations of flood and ebb, respectively, as given by the predictions for that time. The velocities in the shaded area should then be multiplied by the ratio of the predicted flood velocity to the average flood velocity (maximum flood velocity given opposite the name of the reference station on the diagram) and the velocities in the unshaded area by the ratio of the predicted ebb velocity to the average ebb velocity.

In a number of cases approximate results can be obtained by using the diagram as drawn and modifying the final result by the ratio of velocities as mentioned above. Thus if the diagram in a particular case gives a favorable flood velocity averaging about 1.0 knot and the ratio of the predicted flood velocity to the average flood velocity is 0.5 the approximate favorable current for the particular time would be $1.0 \times 0.5 = 0.5$ knot.

DELAWARE BAY AND RIVER

EXPLANATION OF CURRENT DIAGRAM

This current diagram represents only average conditions of the surface currents along the middle of the channel between Bristol and Delaware Bay Entrance, the scale being too small to show details.

Northerly streams are designated "Flood" and southerly streams "Ebb." The small figures in the diagram denote the velocity of the current in knots and tenths. The times are referred to slack waters at Delaware Bay Entrance, daily predictions for which are given in Table 1 of these current tables.

The speed lines are directly related to the diagram. By transferring to the diagram the direction of the speed line which corresponds to the ship's speed, the diagram will show the general direction and velocity of the current encountered by the vessel in passing up or down the bay and river or the most favorable time, with respect to currents, for leaving any place shown in the left margin.

To determine velocity and direction of current.—With parallel rulers transfer to the diagram the direction of the speed line corresponding to the normal speed of vessel, moving edge of ruler to the point where the horizontal line representing place of departure intersects the vertical line representing the time in question. If the ruler's edge lies within the shaded portion of the diagram, a flood current will be encountered; if within the unshaded, an ebb current, and if along the boundary of both, slack water. The figures in the diagram along the edge of the ruler will show the velocity of the current encountered at any place indicated in the left margin of the diagram.

Example.—A 15-knot vessel bound southward leaves Philadelphia (Chestnut Street) at 0330 of a given day and it is desired to ascertain the velocity and direction of the current which will be encountered between Philadelphia and Delaware Bay Entrance. Assuming that on the given day flood begins at Delaware Bay Entrance at 0436 and ebb begins at 1038, the time 0330 will be about 1 hour before flood begins. With parallel rulers transfer to the diagram the 15-knot speed line "Southbound" placing the edge of ruler on the intersection of the vertical line "1 hour before flood begins at Delaware Bay Entrance" and a horizontal line through Philadelphia (Chestnut Street) which is the starting point. It will be found that the edge of the ruler passes through an unshaded (ebb) portion with an average velocity of about 1.3 knots from Philadelphia to the vicinity of Arnold Point, and the rest of the way through a shaded (flood) portion with an average velocity of about 0.8 knot. The vessel will therefore have a favorable current averaging about 1.3 knots to the vicinity of Arnold Point and an unfavorable current averaging about 0.8 knot the rest of the way to Delaware Bay Entrance.

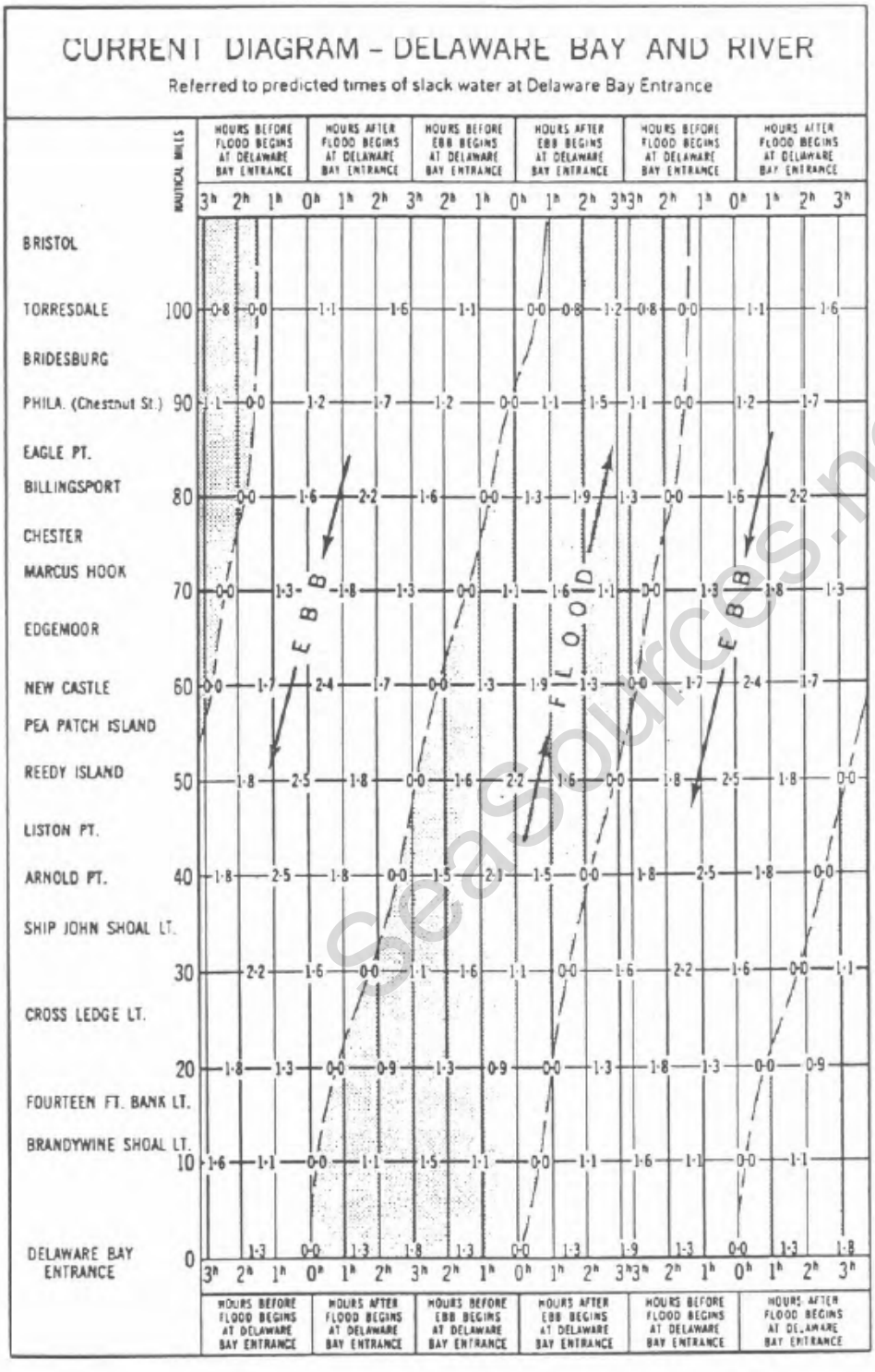
To determine the time of a favorable current for passing up or down the bay and river.—With parallel rulers transfer to the diagram the direction of the speed line corresponding to normal speed of vessel, moving the ruler over the diagram until its edge runs as nearly as possible through the general line of largest velocities of shaded portion if northbound or unshaded portion if southbound giving consideration only to that part of diagram which lies between places of departure and destination. An average of the figures along edge of ruler will give the average velocity of current. The time (before or after flood begins or ebb begins at Delaware Bay Entrance) for leaving any place shown in the left margin will be indicated vertically above or below the point where the ruler cuts a line drawn horizontally through the place in question.

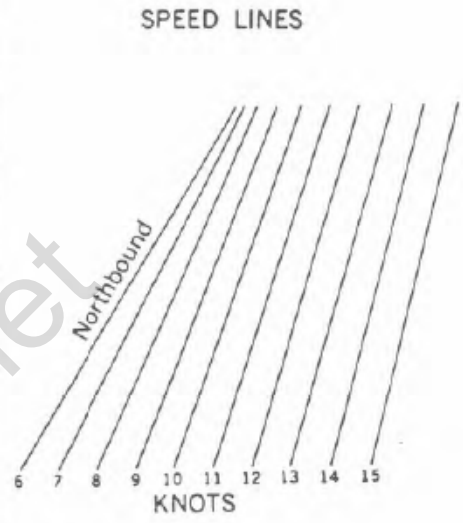
Example.—A 12-knot vessel will leave Delaware Bay Entrance on a day when flood begins at 0505 and ebb begins at 1112. At what time should she get under way so as to carry the most favorable current all the way to Philadelphia? With parallel rulers transfer the direction of 12-knot speed line "Northbound" to the shaded portion of diagram and as near as possible to the axis so as to include the greatest number of larger velocities. The edge of the ruler will cut the horizontal line at Delaware Bay Entrance near the vertical line "2 hours after flood begins at Delaware Bay Entrance" and the velocities along the ruler's edge will average about 1.7 knots. On the given day flood begins at Delaware Bay Entrance at 0505, hence, if the vessel leaves about 2 hours later, i.e., about 0700, she will have a favorable current averaging about 1.7 knots all the way.

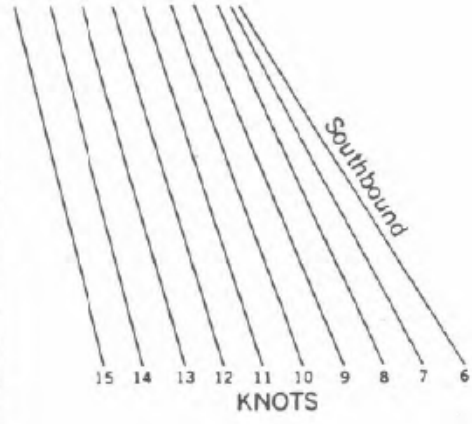
Note.—It is readily seen by transferring southbound speed lines to this diagram that southbound vessels can carry a favorable current for about 50 miles only.

CURRENT DIAGRAM – DELAWARE BAY AND RIVER

Referred to predicted times of slack water at Delaware Bay Entrance







CHESAPEAKE BAY

EXPLANATION OF CURRENT DIAGRAM

This current diagram represents only average conditions of the surface currents along the middle of the channel from Cape Henry Light to Baltimore, the scale being too small to show details.

Northerly streams are designated "Flood" and southerly streams "Ebb." The small figures in the diagram denote the velocity of the current in knots and tenths. The times are referred to slack waters at Chesapeake Bay entrance, daily predictions for which are given in Table I of these current tables.

The speed lines are directly related to the diagram. By transferring to the diagram the direction of the speed line which corresponds to the ship's speed, the diagram will show the general direction and velocity of the current encountered by the vessel in passing up or down the bay or the most favorable time, with respect to currents, for leaving any place shown in the left margin.

To determine velocity and direction of current.—With parallel rulers transfer to the diagram the direction of the speed line corresponding to the normal speed of vessel, moving edge of ruler to the point where the horizontal line representing place of departure intersects the vertical line representing the time in question. If the ruler's edge lies within the shaded portion of the diagram, a flood current will be encountered; if within the unshaded, an ebb current, and if along the boundary of both, slack water. The figures in the diagram along the edge of the ruler will show the velocity of the current encountered at any place indicated in the left margin of the diagram.

Example.—A 12-knot vessel bound for Baltimore passes Cape Henry Light at 1430 of a given day, and it is desired to ascertain the velocity and direction of the current which will be encountered. Assuming that on the given day flood begins at Chesapeake Bay entrance at 1256 and ebb begins at 1803, the time 1430 will be about 1½ hours after flood begins. With parallel rulers transfer to diagram the 12-knot speed line "Northbound," placing edge of ruler so that it will cross the horizontal line opposite Cape Henry at a point "1½ hours after flood begins at the entrance." It will be found that the edge of the ruler passes through strength of current in the shaded portion of diagram averaging about 0.7 knot. The vessel will, therefore, have a favorable current averaging about 0.7 knot all the way to Baltimore.

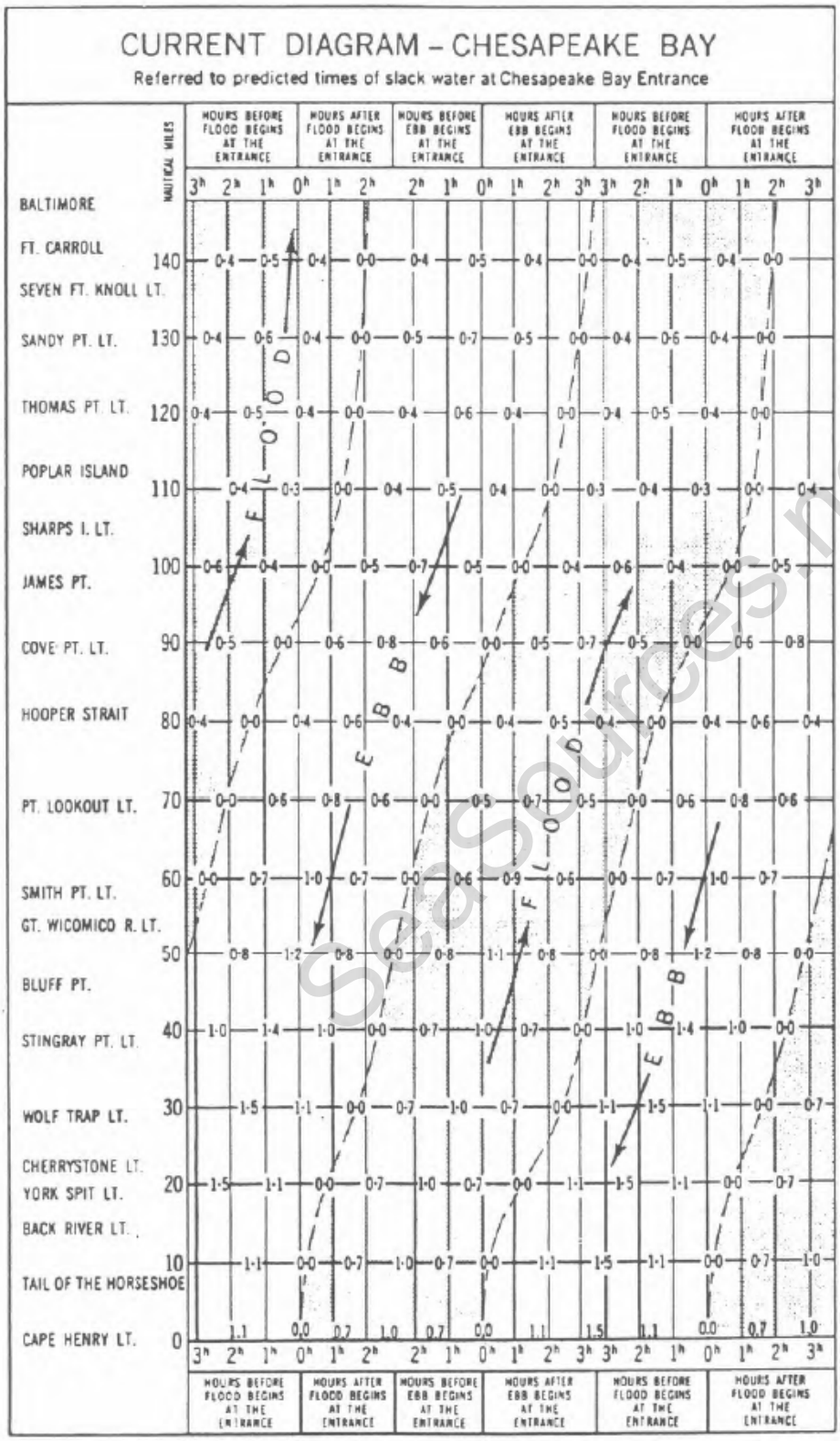
To determine the time of a favorable current for passing through the bay.—With parallel rulers transfer to the diagram the direction of the speed line corresponding to normal speed of vessel, moving the ruler over the diagram until its edge runs approximately through the general line of greatest current of unshaded portion if southbound and shaded portion if northbound. An average of the figures along edge of ruler will give average strength of current. The time (before or after ebb or flood begins at the entrance) for leaving any place in the left margin of diagram will be found vertically above the point where the parallel ruler cuts the horizontal line opposite the place in question.

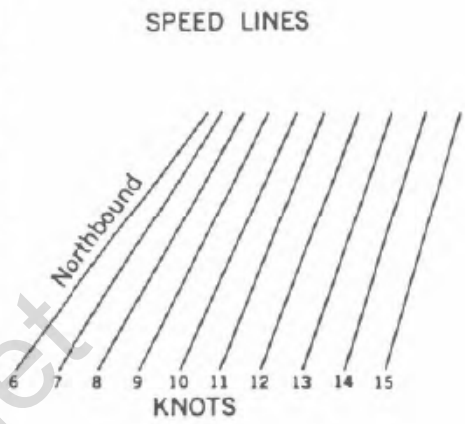
Example.—A 12-knot vessel in Baltimore Harbor desires to leave for Cape Henry Light on the afternoon of a day when flood begins at Chesapeake Bay entrance at 1148 and ebb begins at 1718. At what time should she get under way so as to carry the most favorable current?

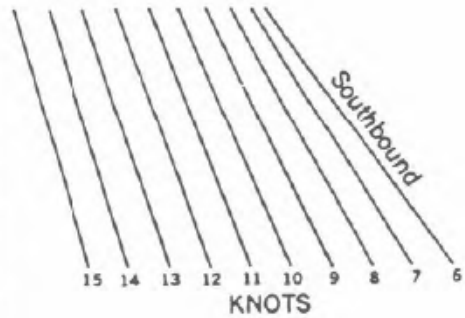
Place parallel rulers along the 12-knot speed line "Southbound." Transfer this direction to the diagram and move it along so as to include the greatest possible number of larger current velocities in the unshaded portion of the diagram. The most favorable time for leaving Baltimore thus found is about 1 hour after flood begins at the entrance, or about 1248. There will be an unfavorable current of about 0.2 knot as far as Seven Foot Knoll Light; after passing this light there will be an average favorable current of about 0.3 knot as far as Cove Point Light; from Cove Point Light to Bluff Point a contrary current averaging about 0.3 knot will be encountered; from Bluff Point to Tail of the Horseshoe there will be an average favorable current of about 0.9 knot; and from Tail of the Horseshoe to Cape Henry an average contrary current of about 0.2 knot will again be encountered.

CURRENT DIAGRAM – CHESAPEAKE BAY

Referred to predicted times of slack water at Chesapeake Bay Entrance







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