



PROFESSIONAL YACHTMASTER TRAINING USA

Master of Yachts 200 Tons Limited



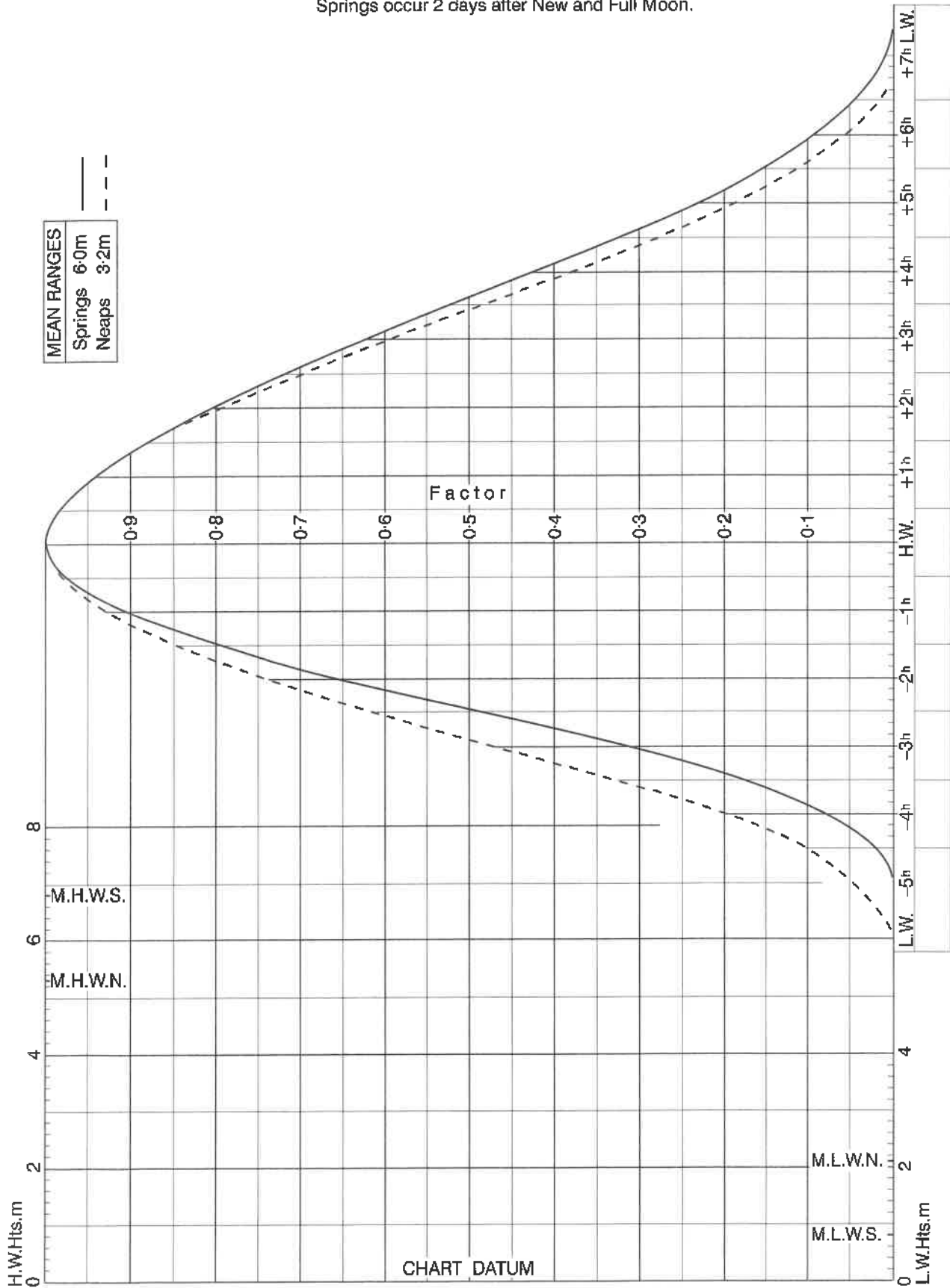
Admiralty Tide Tables 2001



WORLDWIDE

DOVER

MEAN SPRING AND NEAP CURVES
 Springs occur 2 days after New and Full Moon.



ENGLAND – DOVER

LAT 51°07'N LONG 1°19'E

TIME ZONE U.T.(G.M.T.)

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2001

MAY				JUNE				JULY				AUGUST			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1 0449	5.5	16 0526	5.1	1 0136	1.5	16 0109	2.0	1 0208	1.5	16 0117	1.9	1 0349	1.8	16 0306	1.8
1150	2.0	1209	2.4	0717	5.7	0643	5.3	0744	5.7	0646	5.4	0914	5.7	0829	5.8
TU 1730	5.5	W 1754	5.2	F 1410	1.7	SA 1338	2.1	SU 1438	1.7	M 1349	2.1	W 1623	1.7	TH 1537	1.7
				1937	5.9	1858	5.5	2005	5.9	1905	5.6	2146	5.9	2052	6.0
2 0036	1.9	17 0059	2.3	2 0243	1.3	17 0212	1.8	2 0313	1.5	17 0228	1.8	2 0451	1.6	17 0412	1.5
0625	5.5	0636	5.1	0820	5.9	0738	5.5	0843	5.8	0749	5.6	1009	6.0	0925	6.2
W 1323	2.0	TH 1334	2.3	SA 1516	1.5	SU 1441	1.9	M 1545	1.6	TU 1458	1.8	TH 1718	1.5	F 1639	1.3
1857	5.6	1902	5.3	2037	6.1	1952	5.8	2105	6.0	2006	5.9	2233	6.1	2148	6.4
3 0159	1.7	18 0208	2.0	3 0349	1.2	18 0309	1.6	3 0419	1.4	18 0331	1.6	3 0539	1.5	18 0514	1.2
0744	5.7	0739	5.3	0912	6.1	0825	5.8	0934	6.0	0843	5.9	1044	6.2	1015	6.5
TH 1440	1.7	F 1437	2.0	SU 1619	1.3	M 1537	1.6	TU 1646	1.4	W 1600	1.5	F 1802	1.3	SA 1739	0.9
2009	5.9	1958	5.6	2128	6.3	2039	6.0	2157	6.2	2101	6.2	2311	6.2	2239	6.6
4 0312	1.3	19 0304	1.7	4 0451	1.0	19 0404	1.4	4 0515	1.3	19 0431	1.3	4 0619	1.4	19 0613	0.9
0847	6.0	0827	5.6	0957	6.3	0909	6.1	1019	6.2	0934	6.2	1122	6.4	1102	6.8
F 1549	1.4	SA 1530	1.7	M 1714	1.1	TU 1629	1.4	W 1736	1.3	TH 1657	1.2	SA 1839	1.2	SU 1837	0.7
2105	6.3	2043	5.9	2214	6.5	2124	6.3	2242	6.3	2153	6.4	O 2344	6.2	● 2327	6.8
5 0420	1.0	20 0354	1.4	5 0542	0.9	20 0456	1.2	5 0600	1.3	20 0527	1.1	5 0652	1.3	20 0708	0.7
0938	6.3	0907	5.9	1038	6.4	0952	6.3	1100	6.3	1023	6.5	1157	6.5	1148	7.0
SA 1651	1.1	SU 1618	1.5	TU 1800	1.0	W 1719	1.2	TH 1819	1.2	F 1751	1.0	SU 1912	1.2	M 1930	0.5
2153	6.6	2121	6.1	2256	6.6	2208	6.5	O 2322	6.3	● 2244	6.6				
6 0520	0.7	21 0441	1.2	6 0825	0.9	21 0546	1.0	6 0638	1.3	21 0623	0.9	6 0016	6.2	21 0013	6.9
1022	6.5	0944	6.2	1117	6.5	1036	6.5	1139	6.4	1112	6.7	0721	1.3	0756	0.6
SU 1743	0.8	M 1703	1.3	W 1840	1.0	TH 1807	1.0	F 1858	1.2	SA 1845	0.8	M 1231	6.5	TU 1233	7.1
2236	6.8	2158	6.4	O 2336	6.6	● 2254	6.8			2334	6.7	1941	1.2	2018	0.3
7 0610	0.6	22 0527	1.1	7 0702	1.0	22 0634	0.9	7 0000	6.3	22 0717	0.8	7 0046	6.2	22 0057	6.8
1101	6.6	1020	6.4	1155	6.5	1121	6.6	0711	1.3	1159	6.8	0750	1.3	0838	0.6
M 1827	0.7	TU 1747	1.1	TH 1916	1.0	F 1854	0.9	SA 1217	6.4	SU 1939	0.6	TU 1301	6.4	W 1317	7.1
O 2316	6.8	2235	6.5			2340	6.7	1929	1.2			2011	1.2	2101	0.4
8 0652	0.6	23 0611	0.9	8 0015	6.5	23 0721	0.9	8 0036	6.2	23 0023	6.7	8 0114	6.1	23 0141	6.7
1138	6.7	1057	6.5	0734	1.1	1207	6.7	0741	1.3	0807	6.8	0820	1.3	0916	0.7
TU 1906	0.7	W 1828	1.0	F 1234	6.5	SA 1942	0.8	SU 1253	6.4	M 1247	6.9	W 1327	6.3	TH 1401	7.0
2355	6.8	● 2313	6.7	1949	1.2			2000	1.3	2029	0.6	2043	1.3	2140	0.6
9 0729	0.7	24 0652	0.9	9 0053	6.4	24 0028	6.7	9 0110	6.1	24 0112	6.7	9 0138	6.1	24 0226	6.5
1215	6.7	1135	6.6	0803	1.3	0808	0.9	0810	1.4	0854	0.8	0852	1.4	0953	0.9
W 1941	0.8	TH 1909	0.9	SA 1312	6.4	SU 1256	6.7	M 1327	6.3	TU 1335	6.9	TH 1352	6.3	F 1447	6.7
		2353	6.7	2016	1.3	2030	0.8	2031	1.4	2117	0.6	2115	1.3	2218	0.9
10 0033	6.7	25 0731	0.9	10 0130	6.2	25 0120	6.8	10 0143	6.0	25 0203	6.6	10 0204	6.0	25 0314	6.2
0801	0.8	1216	6.7	0829	1.4	0856	1.0	0840	1.5	0937	0.9	0926	1.5	1030	1.3
TH 1252	6.8	F 1949	0.9	SU 1350	6.2	M 1348	6.6	TU 1358	6.2	W 1424	6.8	F 1422	6.2	SA 1636	6.3
2012	1.0			2047	1.5	2121	0.9	2104	1.4	2202	0.7	2148	1.5	2259	1.3
11 0110	6.5	26 0035	6.7	11 0207	5.9	26 0215	6.4	11 0214	5.8	26 0254	6.4	11 0237	5.9	26 0408	5.8
0830	1.1	0810	1.0	0859	1.6	0945	1.1	0915	1.5	1019	1.0	1001	1.6	1114	1.7
F 1330	6.4	SA 1301	6.6	M 1427	6.0	TU 1442	6.5	W 1428	6.0	TH 1515	6.6	SA 1501	6.1	SU 1631	5.9
2040	1.2	2031	1.0	2121	1.6	2213	1.0	2140	1.5	2247	0.9	2225	1.7	2348	1.8
12 0148	6.3	27 0122	6.5	12 0249	5.7	27 0316	6.2	12 0246	5.7	27 0348	6.1	12 0321	5.8	27 0510	5.5
0855	1.3	0853	1.1	0935	1.8	1036	1.3	0953	1.7	1103	1.3	1042	1.9	1211	2.1
SA 1410	6.2	SU 1351	6.4	TU 1508	5.8	W 1539	6.3	TH 1503	5.9	F 1608	6.3	SU 1551	5.8	M 1736	5.5
2108	1.5	2117	1.1	2203	1.8	2307	1.2	2221	1.7	2334	1.2	2311	1.9		
13 0229	6.0	28 0217	6.3	13 0337	5.5	28 0420	6.0	13 0326	5.6	28 0446	5.8	13 0419	5.5	28 0052	2.2
0922	1.6	0940	1.4	1020	2.0	1131	1.5	1035	1.8	1153	1.6	1135	2.1	0623	5.3
SU 1453	5.9	M 1449	6.2	W 1555	5.6	TH 1639	6.1	F 1548	5.7	SA 1706	6.0	M 1658	5.6	TU 1326	2.3
2141	1.8	2210	1.3	2253	2.0			2307	1.8			1857	5.3		
14 0318	5.6	29 0324	6.0	14 0436	5.3	29 0004	1.3	14 0419	5.4	29 0028	1.5	14 0017	2.1	29 0206	2.3
0958	1.9	1037	1.6	1114	2.1	0527	5.8	1125	2.0	0551	5.6	0551	5.3	0745	5.3
M 1545	5.6	TU 1555	6.0	TH 1653	5.4	F 1230	1.6	SA 1645	5.6	SU 1253	1.9	TU 1256	2.2	W 1448	2.2
2225	2.0	2314	1.5	2358	2.1	1744	5.9			1813	5.7	1828	5.5	2035	5.4
15 0418	5.3	30 0441	5.7	15 0540	5.2	30 0105	1.4	15 0005	1.9	30 0130	1.8	15 0149	2.1	30 0323	2.1
1048	2.2	1147	1.8	1225	2.2	0638	5.7	0532	5.3	0703	5.4	0724	5.5	0856	5.6
TU 1646	5.3	W 1707	5.8	F 1757	5.4	SA 1333	1.7	SU 1231	2.1	M 1401	2.0	W 1426	2.1	TH 1604	1.9
2331	2.3					1856	5.8	1755	5.5	1931	5.6	1948	5.7	2138	5.7
		31 0026	1.6					31 0237	1.9			31 0430	1.8		
		0602	5.6					0814	5.5			0946	5.9		
		TH 1301	1.8					TU 1514	1.9			F 1701	1.6		
		1824	5.8					2047	5.7			2221	6.0		

ENGLAND – DOVER

LAT 51°07'N LONG 1°19'E

TIME ZONE U.T.(G.M.T.)

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

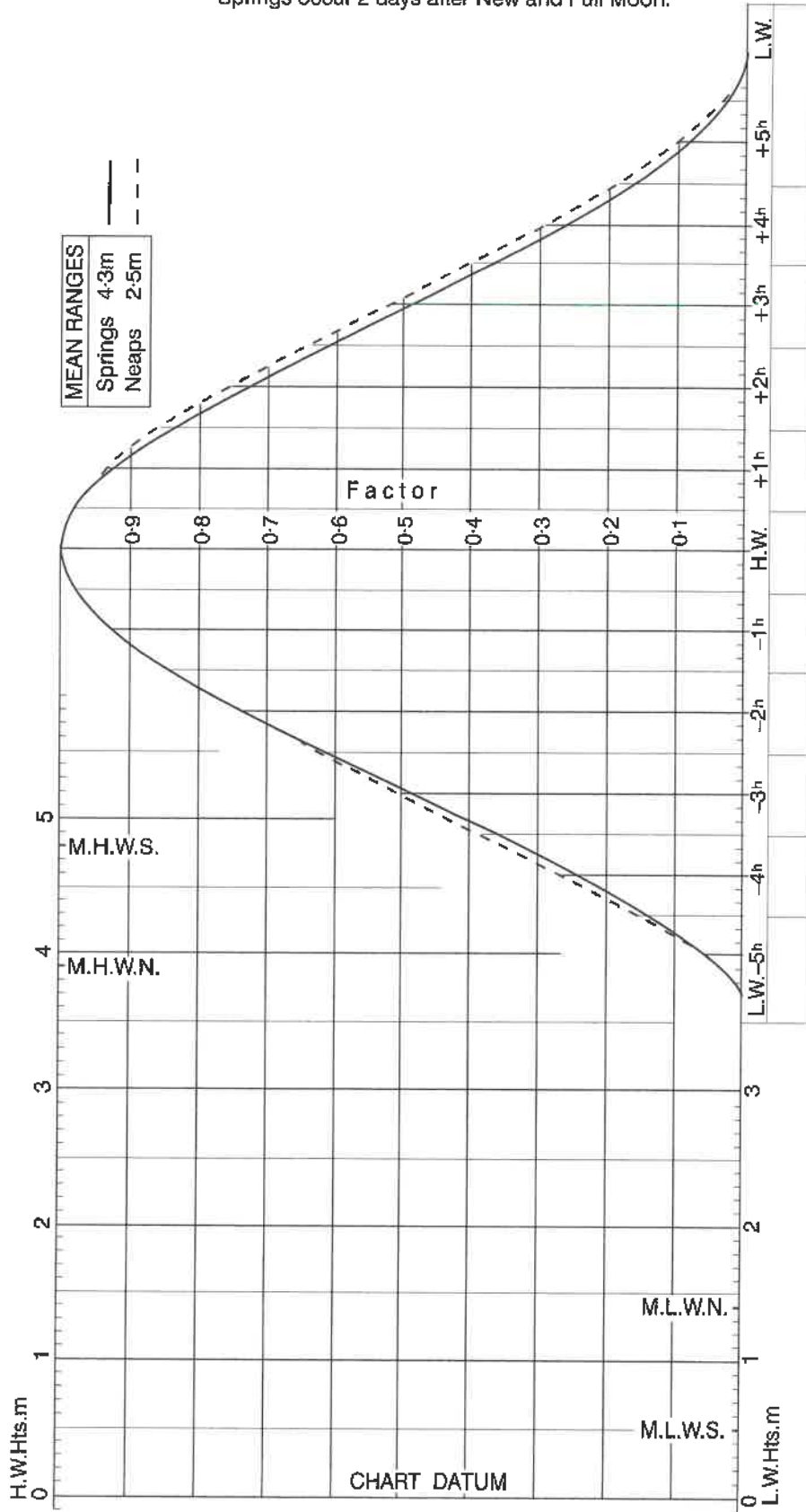
YEAR 2001

SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER												
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m									
1	0519	1.6	16	0502	1.2	1	0529	1.4	16	0537	0.9	1	0558	1.2	16	0640	0.9	1	0607	1.2	16	0657	1.1	
	1028	6.2		1003	6.6		1032	6.4		1029	7.0		1053	6.6		1129	7.0		1054	6.6		1153	6.6	
SA	1744	1.3	SU	1726	0.9	M	1749	1.2	TU	1802	0.6	TH	1818	1.1	F	1903	0.8	SA	1829	1.1	SU	1916	1.1	
	2254	6.2		2230	6.7		2251	6.3		2256	6.9		2311	6.5		2350	6.8		2316	6.6				
2	0558	1.4	17	0559	0.9	2	0601	1.3	17	0625	0.7	2	0632	1.2	17	0718	0.9	2	0646	1.1	17	0013	6.6	
	1101	6.4		1048	7.0		1101	6.5		1110	7.2		1123	6.6		1208	6.9		1131	6.7		0733	1.2	
SU	1819	1.2	M	1823	0.6	TU	1818	1.2	W	1849	0.5	F	1852	1.1	SA	1939	0.9	SU	1907	1.1	M	1233	6.5	
O	2322	6.3		2315	6.9	O	2317	6.4		2334	7.0		2340	6.6					2353	6.7		1949	1.3	
3	0630	1.3	18	0650	0.7	3	0630	1.2	18	0707	0.7	3	0707	1.1	18	0029	6.8	3	0725	1.1	18	0053	6.6	
	1133	6.5		1131	7.1		1130	6.6		1150	7.2		1153	6.7		0753	1.1		1211	6.7		0807	1.3	
M	1849	1.2	TU	1913	0.4	W	1848	1.1	TH	1930	0.5	SA	1926	1.1	SU	1248	6.7	M	1945	1.2	TU	1312	6.3	
	2350	6.3		2358	7.0		2344	6.4								2011	1.2					2018	1.5	
4	0658	1.3	19	0734	0.6	4	0700	1.2	19	0011	6.9	4	0009	6.6	19	0109	6.6	4	0034	6.6	19	0132	6.4	
	1203	6.5		1212	7.2		1156	6.6		0744	0.7		0740	1.2		0826	1.3		0805	1.2		0839	1.5	
TU	1917	1.1	W	1957	0.3	TH	1919	1.1	F	1230	7.1	SU	1226	6.7	M	1329	6.4	TU	1254	6.5	W	1351	6.1	
										2006	0.6		1958	1.2		2041	1.5		2023	1.3		2047	1.6	
5	0017	6.3	20	0035	6.9	5	0009	6.5	20	0050	6.8	5	0043	6.6	20	0151	6.4	5	0120	6.5	20	0211	6.2	
	0726	1.2		0813	0.6		0730	1.2		0818	0.9		0814	1.3		0857	1.6		0848	1.3		0911	1.7	
W	1230	6.5	TH	1254	7.2	F	1222	6.6	SA	1310	6.9	M	1302	6.8	TU	1413	6.1	W	1343	6.3	TH	1433	5.8	
	1947	1.1		2035	0.4		1950	1.1		2040	0.9		2032	1.4		2109	1.8		2107	1.5		2120	1.8	
6	0042	6.3	21	0115	6.8	6	0034	6.5	21	0130	6.6	6	0123	6.5	21	0236	6.1	6	0212	6.3	21	0251	6.0	
	0756	1.2		0848	0.8		0802	1.2		0851	1.2		0852	1.5		0930	1.9		0937	1.5		0949	1.8	
TH	1254	6.5	F	1335	7.0	SA	1249	6.6	SU	1351	6.6	TU	1344	6.3	W	1503	5.7	TH	1442	6.1	F	1519	5.5	
	2017	1.2		2111	0.7		2020	1.2		2111	1.3		2111	1.6		2143	2.1		2158	1.7		2200	2.0	
7	0104	6.3	22	0156	6.6	7	0102	6.5	22	0213	6.3	7	0211	6.2	22	0329	5.7	7	0315	6.1	22	0336	5.7	
	0827	1.2		0922	1.0		0833	1.3		0923	1.5		0936	1.7		1013	2.2		1035	1.6		1034	2.0	
F	1319	6.5	SA	1418	6.7	SU	1321	6.6	M	1437	6.2	W	1438	5.9	TH	1602	5.4	F	1557	5.8	SA	1614	5.3	
	2047	1.2		2145	1.1		2050	1.4		2142	1.7		2159	1.9		2230	2.4		2300	1.9		2248	2.2	
8	0130	6.3	23	0241	6.3	8	0137	6.4	23	0303	6.0	8	0315	5.8	23	0429	5.5	8	0427	5.9	23	0431	5.5	
	0858	1.4		0956	1.4		0906	1.5		0958	1.9		1033	2.0		1115	2.4		1143	1.7		1130	2.1	
SA	1348	6.4	SU	1505	6.3	M	1359	6.4	TU	1531	5.7	TH	1604	5.6	F	1708	5.2	SA	1720	5.7	SU	1718	5.2	
	2117	1.4		2221	1.5		2125	1.6		2218	2.2		2303	2.2		2343	2.6					2349	2.3	
9	0203	6.2	24	0333	5.9	9	0220	6.1	24	0402	5.6	9	0452	5.5	24	0536	5.3	9	0014	2.0	24	0535	5.4	
	0930	1.5		1035	1.9		0947	1.8		1045	2.3		1152	2.1		1240	2.4		0544	5.8		1238	2.2	
SU	1425	6.3	M	1559	5.8	TU	1446	6.0	W	1635	5.3	F	1750	5.5	SA	1819	5.2	SU	1256	1.7	M	1823	5.2	
	2151	1.6		2305	2.1		2210	2.0		2317	2.6								1837	5.7				
10	0244	6.0	25	0434	5.5	10	0316	5.7	25	0510	5.3	10	0039	2.3	25	0113	2.5	10	0129	1.9	25	0105	2.3	
	1009	1.8		1128	2.3		1040	2.1		1210	2.6		0623	5.6		0646	5.4		0659	5.9		0639	5.4	
M	1512	6.0	TU	1705	5.4	W	1557	5.5	TH	1749	5.1	SA	1323	2.0	SU	1351	2.2	M	1404	1.6	TU	1346	2.1	
	2234	1.9					2312	2.3					1809	5.7		1926	5.3		1943	5.9		1921	5.4	
11	0338	5.6	26	0011	2.5	11	0504	5.3	26	0055	2.7	11	0206	2.0	26	0221	2.3	11	0237	1.7	26	0216	2.2	
	1100	2.1		0546	5.2		1158	2.3		0826	5.2		0735	5.9		0746	5.6		0803	6.1		0736	5.6	
TU	1617	5.8	W	1253	2.5	TH	1806	5.4	F	1342	2.5	SU	1437	1.6	M	1448	2.0	TU	1509	1.4	W	1447	1.9	
	2334	2.2		1824	5.1					1921	5.2		2014	6.0		2017	5.6		2040	6.1		2011	5.6	
12	0510	5.3	27	0136	2.6	12	0056	2.4	27	0215	2.5	12	0315	1.7	27	0316	2.0	12	0342	1.5	27	0316	1.9	
	1217	2.3		0710	5.2		0650	5.4		0745	5.5		0833	6.3		0831	5.9		0857	6.3		0825	5.9	
W	1812	5.4	TH	1422	2.4	F	1343	2.2	SA	1453	2.2	M	1543	1.2	TU	1538	1.7	W	1614	1.2	TH	1543	1.6	
				2016	5.3		1929	5.6		2035	5.5		2107	6.3		2057	5.9		2129	6.3		2056	5.9	
13	0116	2.3	28	0256	2.3	13	0231	2.1	28	0319	2.1	13	0416	1.3	28	0403	1.7	13	0442	1.3	28	0410	1.6	
	0709	5.4		0830	5.5		0801	5.8		0841	5.8		0922	6.6		0909	6.1		0946	6.5		0909	6.1	
TH	1401	2.2	F	1539	2.0	SA	1501	1.7	SU	1548	1.8	TU	1643	0.9	W	1624	1.4	TH	1711	1.1	F	1635	1.4	
	1940	5.6		2117	5.6		2034	6.0		2115	5.8		2153	6.6		2132	6.1		2213	6.4		2138	6.2	
14	0248	2.0	29	0401	2.0	14	0342	1.6	29	0408	1.8	14	0510	1.0	29	0447	1.5	14	0533	1.2	29	0500	1.4	
	0818	5.8		0921	5.9		0857	6.3		0921	6.1		1007	6.8		0944	6.3		1031	6.6		0952	6.4	
F	1519	1.7	SA	1633	1.6	SU	1608	1.2	M	1631	1.5	W	1737	0.7	TH	1707	1.3	F	1759	1.0	SA	1724	1.2	
	2046	6.0		2156	6.0		2128	6.4		2144	6.1		2234	6.7		2206	6.3		2254	6.6		2219		

MARGATE

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LAT 51°23'N LONG 1°23'E

TIME ZONE U.T.(G.M.T.)

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YEAR 2001

JANUARY				FEBRUARY				MARCH				APRIL			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1 0320	4.3	16 0431	4.5	1 0419	4.3	16 0546	4.1	1 0309	4.5	16 0418	4.4	1 0428	4.2	16 0543	3.8
0959	1.0	1115	0.7	1054	1.0	1221	1.2	0937	0.8	1034	1.0	1049	1.2	1144	1.6
M 1600	4.1	TU 1717	4.3	TH 1659	4.1	F 1824	3.8	TH 1536	4.3	F 1643	4.1	SU 1658	3.9	M 1803	3.7
2204	1.3	2312	1.3	2310	1.2			2151	0.9	2245	1.2	2326	1.2		
2 0405	4.2	17 0527	4.3	2 0514	4.2	17 0032	1.5	2 0351	4.4	17 0510	4.1	2 0540	4.0	17 0029	1.4
1044	1.1	1215	0.9	1148	1.1	0652	3.9	1019	0.9	1122	1.3	1201	1.5	0655	3.7
TU 1651	4.0	W 1818	4.1	F 1801	3.9	SA 1837	1.4	F 1622	4.2	SA 1737	3.8	M 1816	3.8	TU 1312	1.7
2254	1.4			1933	3.7			2240	1.1	2343	1.4			1917	3.7
3 0458	4.1	18 0016	1.4	3 0011	1.4	18 0207	1.5	3 0443	4.2	18 0614	3.8	3 0049	1.3	18 0204	1.4
1136	1.1	0629	4.2	0620	4.1	0815	3.9	1112	1.1	1232	1.6	0709	3.9	0817	3.8
W 1752	3.9	TH 1321	1.0	SA 1257	1.2	SU 1451	1.4	SA 1721	4.0	SU 1843	3.7	TU 1341	1.5	W 1435	1.6
2351	1.4	1921	3.9	1916	3.9	2051	3.8	2341	1.3			1949	3.8	2032	3.8
4 0602	4.0	19 0134	1.5	4 0127	1.4	19 0327	1.4	4 0550	4.0	19 0111	1.5	4 0225	1.2	19 0314	1.2
1237	1.2	0741	4.1	0738	4.0	0936	4.0	1222	1.3	0733	3.7	0841	4.1	0928	4.0
TH 1901	3.9	F 1427	1.1	SU 1423	1.2	M 1551	1.3	SU 1837	3.8	M 1405	1.6	W 1502	1.3	TH 1533	1.4
		2029	3.9	2034	4.0	2157	4.0			2001	3.7	2111	4.1	2133	4.0
5 0057	1.4	20 0250	1.4	5 0252	1.3	20 0425	1.2	5 0100	1.4	20 0253	1.4	5 0336	0.9	20 0403	1.0
0712	4.0	0955	4.1	0858	4.2	1035	4.2	0715	4.0	0905	3.8	0953	4.4	1017	4.2
F 1349	1.1	SA 1526	1.1	M 1535	1.1	TU 1639	1.2	M 1358	1.4	TU 1519	1.5	TH 1602	1.1	F 1617	1.2
2007	4.0	2132	4.0	2144	4.2	2248	4.2	2007	3.8	2120	3.9	2214	4.4	2227	4.2
6 0211	1.4	21 0353	1.2	6 0403	1.1	21 0512	1.0	6 0235	1.3	21 0357	1.2	6 0434	0.6	21 0443	0.8
0819	4.1	0959	4.2	1009	4.4	1122	4.3	0847	4.1	1010	4.1	1051	4.7	1057	4.4
SA 1457	1.0	SU 1618	1.1	TU 1634	0.9	W 1718	1.1	TU 1519	1.3	W 1611	1.3	F 1652	0.8	SA 1655	1.0
2109	4.2	2226	4.2	2244	4.4	2330	4.4	2127	4.1	2217	4.1	2306	4.6	2300	4.3
7 0320	1.2	22 0446	1.3	7 0502	0.8	22 0551	0.8	7 0350	1.0	22 0443	1.0	7 0525	0.4	22 0519	0.7
0922	4.3	1139	4.1	1111	4.6	1201	4.4	1002	4.4	1057	4.3	1142	4.8	1131	4.4
SU 1556	0.9	M 1702	1.0	W 1726	0.8	TH 1753	1.0	W 1619	1.0	TH 1652	1.1	SA 1738	0.7	SU 1731	0.9
2205	4.3	2311	4.3	2337	4.6			2231	4.4	2301	4.3	2354	4.8	2335	4.4
8 0420	1.0	23 0532	0.9	8 0557	0.6	23 0005	4.5	8 0450	0.7	23 0522	0.8	8 0612	0.2	23 0555	0.6
1021	4.5	1139	4.4	1206	4.8	0625	0.8	1104	4.7	1135	4.4	1227	4.9	1202	4.5
M 1650	0.8	TU 1741	1.0	TH 1814	0.7	F 1233	4.4	TH 1711	0.9	F 1727	1.0	SU 1822	0.6	M 1806	0.8
2258	4.5	2351	4.4	O		• 1824	0.9	2325	4.6	2337	4.4	O		•	
9 0515	0.8	24 0613	0.8	9 0026	4.8	24 0035	4.5	9 0543	0.5	24 0555	0.7	9 0037	4.9	24 0008	4.5
1118	4.7	1218	4.4	0648	0.4	0656	0.7	1157	4.9	1206	4.5	0655	0.2	0629	0.6
TU 1739	0.7	W 1814	1.0	F 1257	5.0	SA 1300	4.4	F 1758	0.7	SA 1800	0.9	M 1308	4.9	TU 1233	4.5
O 2347	4.7	•		1859	0.7	1856	0.9	O				1905	0.5	1841	0.7
10 0607	0.6	25 0024	4.5	10 0111	4.9	25 0102	4.5	10 0012	4.8	25 0008	4.5	10 0118	4.9	25 0043	4.5
1211	4.8	0648	0.8	0737	0.3	0727	0.7	0632	0.3	0627	0.7	0736	0.2	0703	0.6
W 1826	0.7	TH 1252	4.4	SA 1345	5.0	SU 1326	4.4	SA 1246	5.0	SU 1234	4.5	TU 1345	4.8	W 1305	4.5
		1844	1.0	1944	0.7	1928	0.8	1842	0.6	• 1832	0.8	1945	0.5	1917	0.6
11 0034	4.8	26 0054	4.5	11 0155	5.0	26 0130	4.5	11 0057	5.0	26 0038	4.5	11 0156	4.9	26 0118	4.6
0658	0.5	0720	0.8	0825	0.2	0758	0.7	0719	0.2	0659	0.6	0813	0.4	0737	0.6
TH 1303	4.9	F 1320	4.4	SU 1429	4.9	M 1354	4.4	SU 1329	5.0	M 1301	4.5	W 1419	4.7	TH 1338	4.5
1912	0.7	1916	1.0	2027	0.7	2000	0.8	1925	0.6	1905	0.8	2023	0.6	1955	0.6
12 0121	4.8	27 0122	4.5	12 0238	5.0	27 0200	4.6	12 0138	5.0	27 0107	4.5	12 0233	4.8	27 0156	4.6
0749	0.4	0751	0.8	0910	0.3	0830	0.7	0803	0.2	0731	0.6	0846	0.5	0813	0.7
F 1354	4.9	SA 1348	4.3	M 1512	4.8	TU 1423	4.4	M 1409	4.9	TU 1329	4.5	TH 1452	4.5	F 1415	4.5
1958	0.7	1948	1.0	2109	0.8	2034	0.8	2006	0.6	1938	0.7	2058	0.7	2036	0.6
13 0206	4.8	28 0151	4.5	13 0318	4.9	28 0232	4.6	13 0217	5.0	28 0138	4.6	13 0310	4.6	28 0239	4.5
0839	0.4	0823	0.8	0954	0.4	0902	0.7	0843	0.3	0802	0.6	0919	0.7	0853	0.8
SA 1443	4.8	SU 1418	4.3	TU 1554	4.6	W 1457	4.4	TU 1446	4.8	W 1359	4.5	F 1526	4.3	SA 1457	4.4
2043	0.8	2022	0.9	2151	0.9	2110	0.8	2045	0.6	2013	0.7	2135	0.8	2122	0.7
14 0252	4.8	29 0222	4.5	14 0402	4.7	29 0212	4.6	14 0255	4.9	29 0212	4.6	14 0352	4.4	29 0328	4.4
0930	0.4	0856	0.8	1037	0.7	0835	0.7	0920	0.4	0835	0.7	0955	1.0	0940	1.0
SU 1532	4.7	M 1450	4.3	W 1638	4.3	W 1522	4.6	W 1522	4.6	TH 1433	4.5	SA 1607	4.1	SU 1546	4.2
2130	1.0	2057	1.0	2234	1.1	2123	0.7	2123	0.7	2050	0.7	2217	1.0	2216	0.9
15 0340	4.7	30 0255	4.5	15 0450	4.4	30 0250	4.6	15 0334	4.7	30 0250	4.6	15 0442	4.1	30 0428	4.2
1021	0.5	0931	0.8	1124	0.9	0911	0.8	0955	0.7	0911	0.8	1041	1.3	1038	1.3
M 1623	4.5	TU 1526	4.3	TH 1727	4.0	F 1512	4.4	TH 1600	4.3	F 1512	4.4	SU 1657	3.9	M 1649	4.0
2219	1.1	2135	1.0	2325	1.3	2132	0.8	2201	0.9	2132	0.8	2311	1.3	2323	1.1
		31 0334	4.4			31 0334	4.4			31 0334	4.4				
		1009	0.9			0955	1.0			0955	1.0				
		W 1608	4.2			SA 1558	4.2			SA 1558	4.2				
		2219	1.1			2222	1.0			2222	1.0				

ENGLAND – MARGATE

LAT 51°23'N LONG 1°23'E

TIME ZONE U.T.(G.M.T.)

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2001

		MAY		JUNE		JULY		AUGUST							
Time	m	Time	m	Time	m	Time	m	Time	m						
1	0542 4.0	16	0618 3.8	1	0153 0.7	16	0122 1.1	1	0227 0.7	16	0126 1.2	1	0353 1.1	16	0310 1.3
	1151 1.5		1219 1.6		0806 4.2		0737 3.9		0837 4.2		0744 4.0		1003 4.2		0919 4.2
TU	1806 3.9	W	1834 3.8	F	1414 1.2	SA	1343 1.4	SU	1446 1.2	M	1350 1.4	W	1624 1.1	TH	1540 1.2
					2021 4.2		1948 3.9		2053 4.3		1955 4.0		2236 4.3		2145 4.3
2	0048 1.1	17	0110 1.3	2	0255 0.6	17	0222 1.0	2	0324 0.7	17	0234 1.1	2	0442 1.0	17	0411 1.1
	0707 4.0		0727 3.8		0909 4.4		0835 4.1		0935 4.3		0847 4.1		1054 4.4		1020 4.4
W	1325 1.5	TH	1338 1.6	SA	1514 1.1	SU	1443 1.3	M	1545 1.0	TU	1459 1.3	TH	1715 0.9	F	1640 0.9
	1933 3.9		1942 3.8		2123 4.4		2045 4.0		2155 4.3		2101 4.2		2327 4.4		2248 4.8
3	0213 0.9	18	0218 1.2	3	0349 0.5	18	0316 0.9	3	0415 0.7	18	0335 1.0	3	0524 1.0	18	0503 0.9
	0829 4.2		0831 3.9		1004 4.5		0927 4.2		1028 4.4		0944 4.3		1138 4.5		1113 4.7
TH	1441 1.3	F	1442 1.4	SU	1607 0.9	M	1537 1.1	TU	1639 0.9	W	1600 1.1	F	1759 0.8	SA	1734 0.6
	2049 4.2		2042 4.0		2218 4.5		2137 4.2		2250 4.4		2202 4.3				2344 4.8
4	0318 0.7	19	0313 1.0	4	0439 0.4	19	0406 0.8	4	0502 0.7	19	0429 0.9	4	0011 4.5	19	0551 0.8
	0935 4.4		0926 4.1		1054 4.5		1015 4.4		1115 4.5		1038 4.5		0601 1.0		1202 4.8
F	1539 1.0	SA	1533 1.2	M	1657 0.7	TU	1626 1.0	W	1729 0.8	TH	1655 0.9	SA	1261 4.6	SU	1825 0.4
	2150 4.4		2133 4.1		2309 4.6		2227 4.4		2340 4.5		2259 4.6	O	1838 0.8	•	
5	0413 0.5	20	0359 0.8	5	0524 0.5	20	0459 0.7	5	0544 0.8	20	0519 0.8	5	0049 4.5	20	0035 5.0
	1031 4.6		1011 4.3		1138 4.6		1101 4.5		1157 4.5		1128 4.6		0635 1.0		0636 0.8
SA	1630 0.8	SU	1617 1.0	TU	1744 0.7	W	1714 0.8	TH	1814 0.7	F	1747 0.7	SU	1249 4.6	M	1248 5.0
	2243 4.6		2218 4.3		2356 4.6		2316 4.5	O		•	2353 4.7		1914 0.8		1913 0.3
6	0502 0.3	21	0442 0.7	6	0606 0.5	21	0537 0.7	6	0024 4.5	21	0606 0.8	6	0121 4.4	21	0123 5.1
	1119 4.7		1052 4.4		1219 4.6		1145 4.6		0622 0.8		1215 4.7		0707 1.0		0721 0.7
SU	1717 0.7	M	1658 0.9	W	1828 0.6	TH	1801 0.7	F	1235 4.5	SA	1838 0.5	M	1319 4.6	TU	1331 5.0
	2331 4.7		2259 4.4	O		•			1855 0.7				1945 0.8		2001 0.2
7	0548 0.3	22	0522 0.6	7	0039 4.6	22	0004 4.6	7	0104 4.5	22	0045 4.9	7	0148 4.4	22	0209 5.0
	1203 4.7		1130 4.5		0644 0.6		0621 0.7		0656 0.9		0652 0.7		0740 1.0		0806 0.7
M	1802 0.6	TU	1738 0.8	TH	1256 4.5	F	1229 4.6	SA	1309 4.5	SU	1302 4.8	TU	1347 4.5	W	1414 5.0
	O		2339 4.5		1910 0.6		1847 0.6		1933 0.7		1927 0.4		2016 0.8		2046 0.2
8	0016 4.7	23	0601 0.6	8	0119 4.5	23	0053 4.7	8	0139 4.4	23	0136 4.9	8	0215 4.4	23	0252 4.9
	0830 0.3		1207 4.5		0719 0.7		0704 0.7		0729 1.0		0738 0.8		0814 1.0		0849 0.8
TU	1244 4.7	W	1818 0.7	F	1329 4.5	SA	1312 4.7	SU	1340 4.5	M	1347 4.9	W	1415 4.5	TH	1456 5.0
	1845 0.5	•			1948 0.7		1936 0.5		2007 0.8		2017 0.3		2046 0.8		2130 0.4
9	0057 4.7	24	0020 4.6	9	0155 4.5	24	0142 4.8	9	0211 4.4	24	0225 4.9	9	0244 4.4	24	0334 4.8
	0709 0.4		0639 0.6		0751 0.8		0749 0.8		0802 1.0		0824 0.8		0848 1.0		0932 0.9
W	1320 4.6	TH	1244 4.6	SA	1401 4.4	SU	1357 4.7	M	1411 4.5	TU	1432 4.9	TH	1445 4.5	F	1539 4.8
	1926 0.5		1900 0.6		2024 0.7		2025 0.5		2040 0.8		2107 0.3		2119 0.8		2213 0.6
10	0136 4.7	25	0103 4.6	10	0231 4.4	25	0233 4.7	10	0244 4.3	25	0313 4.8	10	0317 4.3	25	0418 4.5
	0744 0.5		0718 0.6		0825 0.9		0835 0.9		0838 1.1		0910 0.9		0925 1.1		1017 1.1
TH	1353 4.5	F	1323 4.8	SU	1434 4.4	M	1444 4.6	TU	1443 4.4	W	1518 4.8	F	1519 4.4	SA	1626 4.6
	2003 0.6		1943 0.6		2059 0.8		2117 0.5		2114 0.9		2156 0.4		2153 0.9		2259 0.8
11	0213 4.6	26	0147 4.6	11	0308 4.3	26	0326 4.7	11	0319 4.2	26	0403 4.7	11	0354 4.2	26	0506 4.3
	0816 0.7		0759 0.7		0901 1.1		0925 1.0		0916 1.1		0959 1.0		1006 1.2		1107 1.3
F	1425 4.5	SA	1404 4.5	M	1510 4.3	TU	1535 4.5	W	1518 4.3	TH	1607 4.7	SA	1600 4.3	SU	1720 4.3
	2039 0.7		2029 0.6		2137 0.9		2212 0.5		2152 0.9		2248 0.5		2233 1.0		2353 1.2
12	0250 4.5	27	0235 4.6	12	0350 4.1	27	0422 4.5	12	0358 4.1	27	0454 4.5	12	0439 4.1	27	0602 4.0
	0849 0.8		0843 0.9		0943 1.2		1019 1.1		0957 1.2		1050 1.1		1052 1.3		1212 1.5
SA	1458 4.3	SU	1450 4.4	TU	1551 4.1	W	1630 4.4	TH	1657 4.2	F	1659 4.5	SU	1649 4.2	M	1826 4.0
	2115 0.8		2119 0.6		2222 1.0		2313 0.6		2233 1.0		2343 0.7		2322 1.1		
13	0330 4.3	28	0329 4.5	13	0438 4.0	28	0523 4.4	13	0449 4.1	28	0549 4.3	13	0537 4.0	28	0106 1.4
	0926 1.1		0933 1.0		1030 1.4		1119 1.2		1043 1.3		1149 1.3		1149 1.4		0710 3.9
SU	1537 4.2	M	1542 4.3	W	1641 4.0	TH	1731 4.3	F	1644 4.1	SA	1758 4.3	M	1752 4.0	TU	1343 1.5
	2156 1.0		2216 0.7		2314 1.1				2320 1.1						1950 3.9
14	0417 4.1	29	0430 4.3	14	0535 3.9	29	0018 0.7	14	0537 4.0	29	0046 0.9	14	0025 1.3	29	0225 1.5
	1010 1.3		1030 1.2		1127 1.5		0627 4.3		1135 1.4		0650 4.1		0651 3.9		0829 3.9
M	1624 4.0	TU	1643 4.2	TH	1742 3.9	F	1229 1.3	SA	1741 4.0	SU	1300 1.4	TU	1301 1.5	W	1505 1.4
	2247 1.2		2323 0.8				1836 4.2				1906 4.1		1910 4.0		2117 4.0
15	0513 3.9	30	0539 4.2	15	0016 1.2	30	0125 0.7	15	0017 1.1	30	0153 1.0	15	0152 1.3	30	0330 1.4
	1105 1.5		1139 1.4		0636 3.9		0733 4.2		0640 3.9		0758 4.0		0809 4.0		0938 4.1
TU	1724 3.8	W	1754 4.1	F	1234 1.5	SA	1341 1.3	SU	1238 1.4	M	1417 1.4	W	1427 1.4	TH	1607 1.2
	2354 1.3				1847 3.9		1946 4.2		1847 4.0		2023 4.1		2033 4.1		2221 4.2
31			0040 0.8	31				31			0256 1.1	31			0421 1.3
		TH	0654 4.2								0904 4.1			F	1032 4.4
			1301 1.4								1525 1.2				1657 1.0
			1909 4.1								2135 4.2				2311 4.4

ENGLAND – MARGATE

LAT 51°23'N LONG 1°23'E

TIME ZONE U.T.(G.M.T.)

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

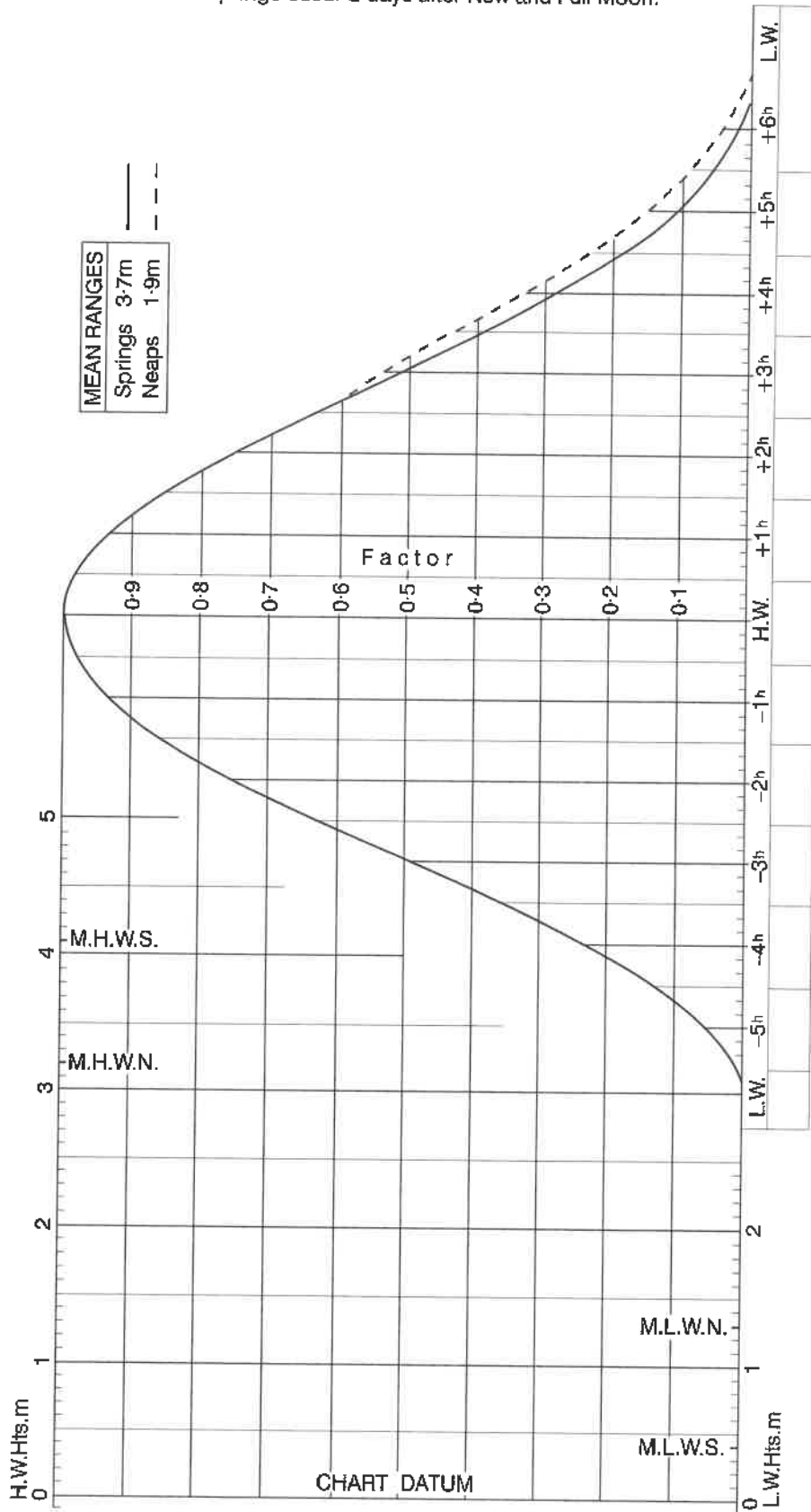
YEAR 2001

SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1 0504	1.2	16 0445	1.0	1 0516	1.1	16 0510	0.8	1 0550	0.9	16 0018	4.8	1 0600	0.8	16 0034	4.6
SA 1117	4.5	SU 1056	4.7	M 1125	4.6	TU 1122	4.9	TH 1151	4.6	F 0620	0.6	SA 1158	4.5	SU 0652	0.7
SA 1740	0.8	SU 1718	0.6	M 1746	0.8	TU 1745	0.3	TH 1814	0.8	F 1230	4.8	SA 1820	0.8	SU 1257	4.6
2353	4.5	2331	4.9	2358	4.5	● 2358	4.9	O		F 1846	0.5			1903	0.8
2 0541	1.1	17 0532	0.9	2 0548	1.0	17 0556	0.7	2 0014	4.5	17 0055	4.7	2 0020	4.5	17 0110	4.6
1154	4.6	1144	4.9	1156	4.6	1207	5.0	0624	0.9	0704	0.6	0639	0.8	0734	0.7
SU 1816	0.8	M 1807	0.4	TU 1817	0.8	W 1829	0.3	F 1223	4.5	SA 1311	4.8	SU 1238	4.6	M 1337	4.5
O		●		O				1845	0.8	1925	0.6	1855	0.8	1937	0.9
3 0028	4.5	18 0020	5.0	3 0024	4.5	18 0041	4.9	3 0043	4.5	18 0131	4.6	3 0056	4.6	18 0144	4.5
0613	1.0	0617	0.7	0619	1.0	0639	0.6	0658	0.8	0746	0.7	0720	0.7	0812	0.8
M 1226	4.6	TU 1229	5.0	W 1224	4.6	TH 1249	5.0	SA 1256	4.5	SU 1351	4.7	M 1320	4.6	TU 1414	4.4
1848	0.8	1853	0.2	1846	0.8	1911	0.3	1916	0.8	1959	0.8	1933	0.9	2009	1.0
4 0057	4.5	19 0105	5.1	4 0048	4.5	19 0120	4.9	4 0114	4.5	19 0204	4.6	4 0134	4.6	19 0217	4.5
0644	1.0	0701	0.7	0650	0.9	0722	0.6	0734	0.8	0825	0.7	0804	0.7	0849	0.9
TU 1254	4.6	W 1311	5.1	TH 1251	4.5	F 1330	5.0	SU 1331	4.6	M 1430	4.6	TU 1404	4.6	W 1451	4.3
1918	0.8	1937	0.2	1916	0.8	1950	0.4	1948	0.9	2032	0.9	2014	1.0	2044	1.1
5 0120	4.5	20 0146	5.0	5 0112	4.5	20 0156	4.8	5 0147	4.5	20 0239	4.4	5 0216	4.5	20 0252	4.4
0716	1.0	0744	0.7	0723	0.9	0803	0.6	0813	0.8	0903	0.9	0852	0.8	0925	1.0
W 1320	4.6	TH 1351	5.1	F 1319	4.6	SA 1409	4.9	M 1410	4.5	TU 1511	4.4	W 1454	4.5	TH 1530	4.2
1947	0.8	2019	0.3	1944	0.8	2026	0.6	2025	1.0	2106	1.2	2100	1.1	2122	1.3
6 0144	4.4	21 0225	4.9	6 0139	4.5	21 0231	4.6	6 0225	4.4	21 0317	4.3	6 0304	4.4	21 0330	4.2
0748	0.9	0825	0.7	0756	0.9	0842	0.7	0857	0.9	0944	1.1	0944	0.8	1006	1.1
TH 1348	4.8	F 1431	5.0	SA 1350	4.6	SU 1449	4.7	TU 1455	4.4	W 1557	4.1	TH 1550	4.3	F 1614	4.0
2016	0.8	2058	0.4	2014	0.8	2100	0.8	2108	1.1	2149	1.4	2152	1.3	2205	1.4
7 0210	4.5	22 0302	4.7	7 0210	4.5	22 0307	4.5	7 0311	4.3	22 0403	4.1	7 0401	4.2	22 0415	4.1
0822	0.9	0905	0.8	0831	0.9	0921	0.9	0947	1.0	1033	1.2	1043	0.9	1053	1.2
F 1416	4.5	SA 1512	4.8	SU 1425	4.5	M 1532	4.5	W 1550	4.2	TH 1651	3.9	F 1655	4.2	SA 1706	3.9
2045	0.8	2135	0.7	2046	0.9	2136	1.1	2201	1.3	2239	1.6	2252	1.4	2255	1.5
8 0240	4.4	23 0341	4.5	8 0245	4.4	23 0348	4.3	8 0408	4.1	23 0502	3.9	8 0507	4.1	23 0512	3.9
0856	1.0	0946	1.0	0911	1.0	1004	1.1	1048	1.2	1135	1.4	1153	1.0	1148	1.3
SA 1449	4.5	SU 1556	4.6	M 1505	4.4	TU 1621	4.2	TH 1659	4.1	F 1756	3.8	SA 1808	4.1	SU 1806	3.8
2117	0.9	2213	1.0	2125	1.1	2219	1.4	2306	1.6	2345	1.8			2355	1.6
9 0315	4.4	24 0424	4.3	9 0327	4.3	24 0438	4.0	9 0522	3.9	24 0612	3.8	9 0003	1.5	24 0617	3.8
0935	1.1	1031	1.2	0958	1.1	1058	1.4	1203	1.3	1250	1.4	0622	4.1	1251	1.3
SU 1527	4.4	M 1648	4.2	TU 1555	4.3	W 1722	3.9	F 1824	4.0	SA 1906	3.7	SU 1309	0.9	M 1909	3.8
2154	1.0	2259	1.3	2215	1.3	2317	1.7					1923	4.1		
10 0357	4.2	25 0518	4.0	10 0422	4.1	25 0544	3.8	10 0027	1.8	25 0108	1.8	10 0124	1.4	25 0103	1.6
1020	1.2	1129	1.4	1056	1.3	1216	1.5	0651	3.9	0722	3.8	0737	4.2	0722	3.8
M 1615	4.3	TU 1752	3.9	W 1701	4.0	TH 1837	3.7	SA 1332	1.2	SU 1401	1.3	M 1418	0.8	TU 1355	1.3
2242	1.2			2320	1.6			1950	4.1	2014	3.9	2031	4.2	2009	3.9
11 0451	4.0	26 0005	1.6	11 0537	3.9	26 0045	1.9	11 0159	1.5	26 0221	1.6	11 0235	1.3	26 0212	1.5
1116	1.4	0624	3.8	1211	1.5	0700	3.8	0811	4.1	0824	3.9	0844	4.3	0821	3.9
TU 1716	4.1	W 1300	1.6	TH 1830	3.9	F 1356	1.5	SU 1444	0.9	M 1458	1.2	TU 1517	0.7	W 1454	1.2
2345	1.4	1914	3.8			2007	3.8	2100	4.3	2110	4.0	2130	4.4	2104	4.0
12 0605	3.9	27 0145	1.8	12 0047	1.7	27 0220	1.8	12 0305	1.3	27 0316	1.4	12 0335	1.1	27 0312	1.3
1229	1.5	0746	3.8	0713	3.9	0819	3.9	0915	4.4	0917	4.1	0944	4.4	0916	4.1
W 1841	3.9	TH 1439	1.5	F 1348	1.4	SA 1505	1.3	M 1543	0.7	TU 1545	1.0	W 1611	0.6	TH 1547	1.0
		2053	3.9	2006	4.0	2118	4.0	2158	4.6	2155	4.2	2223	4.5	2154	4.2
13 0113	1.6	28 0302	1.6	13 0227	1.5	28 0322	1.5	13 0359	1.0	28 0401	1.2	13 0429	0.9	28 0405	1.2
0738	3.9	0906	4.0	0838	4.1	0921	4.1	1010	4.6	1001	4.2	1038	4.5	1006	4.2
TH 1404	1.5	F 1543	1.2	SA 1506	1.1	SU 1554	1.1	TU 1634	0.5	W 1627	0.9	TH 1700	0.6	F 1634	0.9
2016	4.0	2158	4.2	2121	4.3	2207	4.3	2248	4.7	2234	4.3	2311	4.5	2240	4.3
14 0249	1.5	29 0357	1.4	14 0332	1.3	29 0406	1.3	14 0448	0.8	29 0441	1.1	14 0519	0.8	29 0454	1.0
0859	4.1	1004	4.3	0942	4.4	1008	4.3	1059	4.7	1041	4.3	1128	4.8	1054	4.4
F 1524	1.2	SA 1632	1.0	SU 1606	0.8	M 1634	0.9	W 1721	0.4	TH 1706	0.8	F 1745	0.6	SA 1719	0.9
2135	4.3	2246	4.4	2221	4.6	2246	4.4	2334	4.8	2311	4.4	● 2355	4.6	2323	4.5
15 0353	1.2	30 0440	1.2	15 0423	1.0	30 0443	1.1	15 0535	0.7	30 0521	0.9	15 0607	0.7	30 0540	0.8
1003	4.4	1048	4.5	1035	4.7	1046	4.4	1145	4.8	1120	4.4	1215	4.6	1141	4.6
SA 1625	0.9	SU 1712	0.9	M 1657	0.5	TU 1709	0.8	TH 1806	0.4	F 1743	0.8	SA 1826	0.7	SU 1801	0.8
2238	4.6	2326	4.5	2312	4.9	2318	4.5	●		O 2345	4.5			O	
				31 0517	1.0							31 0004	4.6		
				1120	4.5							0626	0.7		
				W 1742	0.8							M 1227	4.7		
				2347	4.5							1841	0.8		

COBH

MEAN SPRING AND NEAP CURVES

Springs occur 2 days after New and Full Moon.



IRELAND – COBH

LAT 51°51'N LONG 8°18'W

TIME ZONE U.T.(G.M.T.)

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2001

JANUARY				FEBRUARY				MARCH				APRIL			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1 0320	1.2	16 0429	0.8	1 0422	1.2	16 0540	1.1	1 0304	0.9	16 0407	0.8	1 0423	1.1	16 0523	1.3
0921	3.7	1025	3.8	1020	3.7	1133	3.3	0859	3.8	0954	3.5	1018	3.4	1106	3.0
M 1547	1.3	TU 1701	0.9	TH 1647	1.3	F 1814	1.2	TH 1522	1.0	F 1632	1.0	SU 1647	1.2	M 1802	1.4
2134	3.6	2246	3.6	2240	3.6			2114	3.8	2214	3.4	2246	3.4	2354	3.0
2 0411	1.3	17 0526	0.9	2 0521	1.3	17 0002	3.2	2 0348	1.0	17 0457	1.1	2 0534	1.2	17 0636	1.4
1009	3.7	1121	3.6	1117	3.6	0646	1.3	0944	3.7	1044	3.2	1130	3.2	1240	2.9
TU 1639	1.4	W 1800	1.1	F 1750	1.4	SA 1246	3.2	F 1608	1.1	SA 1729	1.2	M 1807	1.3	TU 1919	1.3
2226	3.5	2346	3.4	2344	3.5	1925	1.3	2203	3.6	2314	3.2				
3 0508	1.3	18 0630	1.1	3 0631	1.3	18 0124	3.2	3 0443	1.2	18 0601	1.3	3 0007	3.3	18 0128	3.1
1103	3.6	1225	3.4	1224	3.5	0803	1.3	1040	3.5	1154	3.0	0657	1.2	0751	1.3
W 1739	1.4	TH 1906	1.2	SA 1906	1.3	SU 1404	3.2	SA 1708	1.3	SU 1841	1.4	TU 1256	3.2	W 1404	3.1
2326	3.5					2041	1.3	2307	3.4			1934	1.1	2030	1.2
4 0612	1.4	19 0054	3.4	4 0057	3.5	19 0238	3.3	4 0554	1.3	19 0042	3.0	4 0138	3.4	19 0234	3.3
1204	3.6	0738	1.2	0747	1.2	0919	1.2	1150	3.3	0718	1.4	0822	1.0	0857	1.1
TH 1845	1.4	F 1333	3.4	SU 1338	3.5	M 1510	3.3	SU 1828	1.3	M 1329	3.0	W 1420	3.4	TH 1502	3.3
		2013	1.2	2021	1.2	2147	1.1			2002	1.3	2053	0.9	2127	1.0
5 0032	3.5	20 0204	3.4	5 0212	3.6	20 0338	3.5	5 0025	3.3	20 0209	3.2	5 0256	3.6	20 0324	3.5
0719	1.3	0846	1.1	0901	1.0	1018	1.0	0717	1.3	0841	1.2	0933	0.7	0948	0.9
F 1309	3.6	SA 1437	3.5	M 1450	3.6	TU 1603	3.6	M 1312	3.3	TU 1443	3.2	TH 1527	3.7	F 1547	3.5
1950	1.3	2115	1.1	2130	0.9	2238	0.9	1954	1.2	2116	1.1	2157	0.5	2211	0.8
6 0139	3.6	21 0306	3.6	6 0324	3.8	21 0426	3.8	6 0151	3.4	21 0311	3.4	6 0356	3.9	21 0406	3.7
0823	1.2	0947	1.1	1007	0.8	1102	0.8	0840	1.1	0947	1.0	1030	0.3	1028	0.7
SA 1413	3.7	SU 1534	3.6	TU 1556	3.8	W 1647	3.7	TU 1434	3.5	W 1538	3.4	F 1621	4.0	SA 1626	3.7
2052	1.1	2210	1.0	2230	0.7	2318	0.7	2111	0.9	2211	0.9	2250	0.3	2247	0.6
7 0243	3.8	22 0400	3.7	7 0426	4.0	22 0508	3.9	7 0310	3.7	22 0400	3.6	7 0445	4.1	22 0443	3.9
0925	1.0	1038	0.9	1104	0.5	1136	0.7	0951	0.7	1033	0.8	1118	0.1	1102	0.6
SU 1514	3.9	M 1623	3.7	W 1653	4.1	TH 1725	3.9	W 1543	3.7	TH 1623	3.6	SA 1708	4.2	SU 1701	3.8
2151	0.9	2256	0.9	2323	0.4	2350	0.6	2215	0.6	2252	0.7	2336	0.1	2318	0.5
8 0343	4.0	23 0446	3.9	8 0520	4.2	23 0544	4.0	8 0413	4.0	23 0441	3.8	8 0530	4.3	23 0516	3.9
1023	0.7	1119	0.9	1154	0.3	1204	0.6	1049	0.4	1109	0.6	1201	0.0	1135	0.5
M 1611	4.0	TU 1705	3.9	TH 1743	4.2	F 1759	3.9	TH 1639	4.0	F 1701	3.8	SU 1750	4.2	M 1733	3.9
2245	0.6	2334	0.6	O		•		2308	0.3	2324	0.6	O		• 2350	0.5
9 0439	4.1	24 0527	4.0	9 0011	0.2	24 0017	0.6	9 0505	4.2	24 0518	4.0	9 0017	0.0	24 0548	4.0
1116	0.5	1153	0.8	0607	4.4	0615	4.1	1138	0.2	1138	0.8	0610	4.3	1209	0.5
TU 1704	4.1	W 1743	3.9	F 1241	0.1	SA 1232	0.6	F 1727	4.2	SA 1734	3.9	M 1242	0.0	TU 1805	4.0
O 2336	0.5	•		1828	4.3	1828	3.9	O 2365	0.1	2361	0.5	1829	4.2		
10 0531	4.3	25 0007	0.7	10 0057	0.1	25 0044	0.6	10 0550	4.3	25 0549	4.0	10 0057	0.1	25 0024	0.4
1205	0.4	0603	4.1	0653	4.4	0646	4.0	1222	0.0	1205	0.5	0649	4.2	0621	4.0
W 1754	4.2	TH 1223	0.8	SA 1325	0.1	SU 1301	0.6	SA 1811	4.3	SU 1804	3.9	TU 1321	0.1	W 1245	0.5
		1815	4.0	1913	4.3	1856	3.9			•		1906	4.2	1838	4.0
11 0023	0.3	26 0037	0.7	11 0141	0.1	26 0114	0.6	11 0038	0.0	26 0018	0.5	11 0136	0.2	26 0102	0.5
0620	4.3	0636	4.1	0737	4.3	0715	4.0	0633	4.4	0618	4.0	0726	4.0	0657	4.0
TH 1253	0.3	F 1252	0.8	SU 1409	0.2	M 1333	0.7	SU 1305	0.0	M 1236	0.5	W 1359	0.3	TH 1322	0.5
1842	4.2	1846	3.9	1956	4.2	1925	3.9	1852	4.3	1831	3.9	1943	4.0	1914	4.0
12 0111	0.3	27 0108	0.7	12 0226	0.2	27 0148	0.7	12 0120	0.0	27 0049	0.5	12 0214	0.4	27 0142	0.5
0708	4.3	0708	4.0	0821	4.2	0746	4.0	0714	4.3	0647	4.0	0802	3.9	0736	3.9
F 1340	0.3	SA 1324	0.8	M 1453	0.4	TU 1408	0.8	M 1345	0.1	TU 1308	0.5	TH 1437	0.5	F 1403	0.6
1929	4.2	1916	3.9	2039	4.0	1957	3.9	1932	4.2	1901	4.0	2019	3.8	1954	3.9
13 0158	0.3	28 0138	0.8	13 0310	0.4	28 0224	0.8	13 0201	0.1	28 0123	0.5	13 0253	0.6	28 0227	0.6
0756	4.3	0740	4.0	0904	4.0	0820	3.9	0753	4.1	0719	4.0	0839	3.7	0820	3.8
SA 1428	0.4	SU 1358	0.9	TU 1537	0.6	W 1443	0.9	TU 1425	0.3	W 1342	0.6	F 1516	0.7	SA 1448	0.7
2016	4.1	1949	3.9	2122	3.8	2033	3.8	2010	4.0	1933	3.9	2057	3.6	2040	3.8
14 0247	0.4	29 0213	0.9	14 0355	0.6	29 0355	0.6	14 0242	0.3	29 0200	0.6	14 0335	0.9	29 0317	0.8
0844	4.1	0814	3.9	0948	3.8	0948	3.8	0832	3.9	0754	3.9	0918	3.4	0910	3.6
SU 1517	0.5	M 1435	1.0	W 1622	0.8	2206	3.8	W 1505	0.5	TH 1418	0.7	SA 1600	1.0	SU 1539	0.9
2104	3.9	2024	3.8					2049	3.9	2009	3.9	2141	3.4	2134	3.6
15 0336	0.6	30 0252	1.0	15 0444	0.9	30 0444	0.9	15 0323	0.8	30 0241	0.7	15 0423	1.1	30 0415	0.9
0934	4.0	0851	3.9	1036	3.5	1036	3.5	0912	3.7	0834	3.8	1005	3.2	1009	3.4
M 1607	0.7	TU 1514	1.1	TH 1713	1.0	1713	1.0	TH 1547	0.7	F 1459	0.8	SU 1653	1.2	M 1642	1.0
2154	3.8	2103	3.8	2257	3.4			2129	3.6	2051	3.8	2235	3.2	2239	3.5
		31 0334	1.1							31 0327	0.9				
		0932	3.8							0920	3.6				
		W 1557	1.2							SA 1546	1.0				
		2147	3.7							2142	3.6				

IRELAND – COBH

LAT 51°51'N LONG 8°18'W

TIME ZONE U.T.(G.M.T.)

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2001

MAY				JUNE				JULY				AUGUST			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1 0524	1.1	16 0553	1.3	1 0100	3.5	16 0031	3.4	1 0134	3.5	16 0036	3.5	1 0307	3.4	16 0216	3.5
1120	3.3	1138	3.1	0739	0.8	0708	1.2	0812	0.8	0718	1.2	0946	0.9	0857	1.0
1757	1.1	W 1832	1.3	F 1332	3.5	SA 1259	3.3	SU 1402	3.5	M 1308	3.4	W 1535	3.8	TH 1453	3.6
2358	3.4			2008	0.7	1939	1.1	2041	0.8	1950	1.1	2214	0.9	2132	0.9
2 0644	1.0	17 0028	3.2	2 0207	3.7	17 0133	3.5	2 0235	3.6	17 0141	3.5	2 0401	3.6	17 0324	3.7
1242	3.3	0700	1.3	0843	0.7	0805	1.1	0912	0.8	0821	1.1	1039	0.8	1000	0.7
W 1918	1.0	TH 1301	3.1	SA 1435	3.7	SU 1359	3.5	M 1502	3.6	TU 1412	3.5	TH 1626	3.7	F 1557	3.9
		1937	1.2	2110	0.6	2033	1.0	2139	0.8	2052	1.0	2302	0.8	2232	0.6
3 0124	3.5	18 0140	3.3	3 0305	3.8	18 0228	3.6	3 0331	3.7	18 0243	3.6	3 0448	3.7	18 0424	3.9
0803	0.9	0801	1.1	0940	0.6	0859	0.9	1007	0.7	0921	0.9	1123	0.7	1056	0.5
TH 1400	3.5	F 1407	3.3	SU 1530	3.8	M 1454	3.6	TU 1556	3.7	W 1514	3.7	F 1710	3.9	SA 1652	4.1
2033	0.8	2033	1.0	2204	0.5	2125	0.8	2232	0.7	2152	0.8	2340	0.7	2324	0.3
4 0235	3.7	19 0234	3.5	4 0357	3.9	19 0319	3.7	4 0421	3.7	19 0343	3.8	4 0528	3.8	19 0516	4.1
0911	0.6	0854	1.0	1030	0.5	0950	0.8	1056	0.7	1019	0.7	1159	0.7	1145	0.2
F 1504	3.7	SA 1458	3.5	M 1620	3.9	TU 1545	3.8	W 1645	3.8	TH 1612	3.9	SA 1749	3.9	SU 1741	4.3
2136	0.5	2121	0.9	2252	0.4	2216	0.7	2317	0.7	2247	0.6	O			
5 0333	3.9	20 0320	3.6	5 0444	3.9	20 0409	3.9	5 0506	3.8	20 0439	3.9	5 0011	0.7	20 0011	0.2
1006	0.4	0941	0.8	1116	0.4	1040	0.6	1139	0.6	1112	0.5	0604	3.8	0603	4.2
SA 1558	3.9	SU 1542	3.7	TU 1705	4.0	W 1634	3.9	TH 1728	3.9	F 1706	4.0	SU 1231	0.6	M 1232	0.1
2228	0.3	2204	0.7	2335	0.4	2304	0.5	O 2356	0.7	2338	0.4	1823	3.9	1827	4.3
6 0423	4.0	21 0402	3.8	6 0526	3.9	21 0457	3.9	6 0546	3.8	21 0531	4.0	6 0039	0.7	21 0057	0.1
1055	0.2	1024	0.7	1157	0.5	1128	0.5	1217	0.6	1201	0.3	0636	3.8	0649	4.2
SU 1645	4.1	M 1622	3.8	W 1746	4.0	TH 1721	4.0	F 1806	3.9	SA 1756	4.2	M 1300	0.7	TU 1317	0.1
2314	0.2	2245	0.6	O		2351	0.4					1855	3.9	1911	4.3
7 0507	4.1	22 0441	3.9	7 0014	0.5	22 0544	4.0	7 0030	0.7	22 0027	0.3	7 0109	0.8	22 0142	0.1
1138	0.2	1106	0.5	0604	3.9	1214	0.4	0622	3.8	0619	4.1	0707	3.8	0734	4.2
M 1728	4.1	TU 1702	3.9	TH 1236	0.5	F 1808	4.1	SA 1252	0.7	SU 1249	0.2	TU 1329	0.7	W 1401	0.1
O 2356	0.2	2325	0.5	1823	4.0			1841	3.9	1843	4.2	1926	3.9	1956	4.2
8 0548	4.1	23 0520	4.0	8 0050	0.6	23 0037	0.4	8 0102	0.8	23 0114	0.2	8 0142	0.8	23 0227	0.2
1218	0.2	1146	0.5	0639	3.8	0631	4.0	0655	3.8	0707	4.1	0739	3.8	0818	4.0
TU 1807	4.1	W 1741	4.0	F 1313	0.6	SA 1301	0.4	SU 1325	0.7	M 1336	0.2	W 1401	0.8	TH 1446	0.3
				1858	3.9	1854	4.1	1916	3.9	1931	4.2	1959	3.8	2040	4.0
9 0035	0.3	24 0005	0.4	9 0125	0.7	24 0125	0.4	9 0135	0.8	24 0202	0.2	9 0217	0.9	24 0312	0.4
0625	4.0	0600	4.0	0714	3.8	0719	4.0	0729	3.7	0755	4.0	0813	3.7	0903	3.9
W 1257	0.3	TH 1228	0.5	SA 1349	0.7	SU 1349	0.4	M 1358	0.8	TU 1424	0.2	TH 1436	0.9	F 1531	0.5
1843	4.1	1820	4.0	1934	3.8	1943	4.1	1951	3.8	2019	4.1	2033	3.8	2124	3.8
10 0112	0.4	25 0048	0.4	10 0201	0.8	25 0215	0.4	10 0211	0.9	25 0251	0.3	10 0255	1.0	25 0358	0.6
0701	3.9	0642	4.0	0749	3.7	0809	3.9	0804	3.7	0843	3.9	0850	3.7	0948	3.7
TH 1335	0.4	F 1310	0.5	SU 1425	0.8	M 1438	0.4	TU 1434	0.9	W 1512	0.3	F 1515	1.0	SA 1619	0.7
1918	4.0	1902	4.0	2011	3.7	2033	4.0	2027	3.7	2107	4.0	2112	3.7	2211	3.6
11 0149	0.5	26 0132	0.5	11 0239	1.0	26 0306	0.5	11 0250	1.0	26 0340	0.5	11 0336	1.1	26 0449	0.9
0736	3.8	0726	3.9	0827	3.6	0900	3.8	0843	3.6	0932	3.8	0931	3.6	1038	3.5
F 1412	0.6	SA 1355	0.5	M 1504	1.0	TU 1530	0.5	W 1512	1.0	TH 1602	0.5	SA 1558	1.1	SU 1712	1.0
1954	3.8	1948	4.0	2052	3.6	2126	3.9	2107	3.7	2157	3.8	2155	3.6	2305	3.4
12 0226	0.7	27 0221	0.5	12 0322	1.1	27 0401	0.6	12 0333	1.1	27 0432	0.6	12 0422	1.2	27 0548	1.1
0811	3.6	0815	3.8	0909	3.4	0954	3.7	0924	3.5	1022	3.7	1018	3.5	1140	3.3
SA 1450	0.8	SU 1444	0.6	TU 1548	1.1	W 1625	0.6	TH 1555	1.1	F 1654	0.7	SU 1649	1.2	M 1816	1.2
2032	3.7	2037	3.9	2137	3.5	2222	3.7	2150	3.6	2250	3.6	2247	3.5		
13 0307	0.9	28 0313	0.7	13 0411	1.2	28 0459	0.7	13 0420	1.1	28 0527	0.8	13 0519	1.3	28 0015	3.2
0850	3.5	0907	3.7	0956	3.3	1051	3.6	1010	3.5	1117	3.5	1116	3.4	0859	1.2
SU 1532	1.0	M 1538	0.7	W 1639	1.2	TH 1725	0.7	F 1644	1.1	SA 1753	0.9	M 1754	1.3	TU 1258	3.2
2115	3.5	2133	3.7	2228	3.4	2323	3.6	2238	3.5	2349	3.5	2350	3.4	1933	1.3
14 0353	1.1	29 0411	0.8	14 0507	1.2	29 0602	0.8	14 0513	1.2	29 0630	1.0	14 0631	1.3	29 0137	3.2
0934	3.3	1005	3.5	1051	3.3	1152	3.5	1103	3.4	1219	3.4	1225	3.4	0817	1.2
M 1621	1.2	TU 1638	0.8	TH 1738	1.2	F 1831	0.8	SA 1741	1.2	SU 1859	1.0	TU 1910	1.3	W 1415	3.3
2205	3.3	2235	3.6	2326	3.3			2334	3.5			2054	1.2		
15 0448	1.3	30 0516	0.9	15 0608	1.3	30 0028	3.5	15 0614	1.2	30 0056	3.4	15 0102	3.4	30 0247	3.3
1028	3.1	1110	3.4	1154	3.3	0706	0.9	1203	3.4	0736	1.0	0747	1.2	0928	1.1
TU 1723	1.3	W 1746	0.9	F 1840	1.2	SA 1258	3.5	SU 1845	1.2	M 1329	3.4	W 1340	3.4	TH 1517	3.5
2307	3.2	2346	3.5			1937	0.8			2006	1.0	2024	1.1	2158	1.0
		31 0628	0.9							31 0204	3.4			31 0343	3.5
		1221	3.4							0844	1.0			1022	0.9
		TH 1859	0.9							TU 1436	3.4			F 1607	3.7
										2116	1.0			2245	0.9

IRELAND – COBH

LAT 51°51'N LONG 8°18'W

TIME ZONE U.T.(G.M.T.)

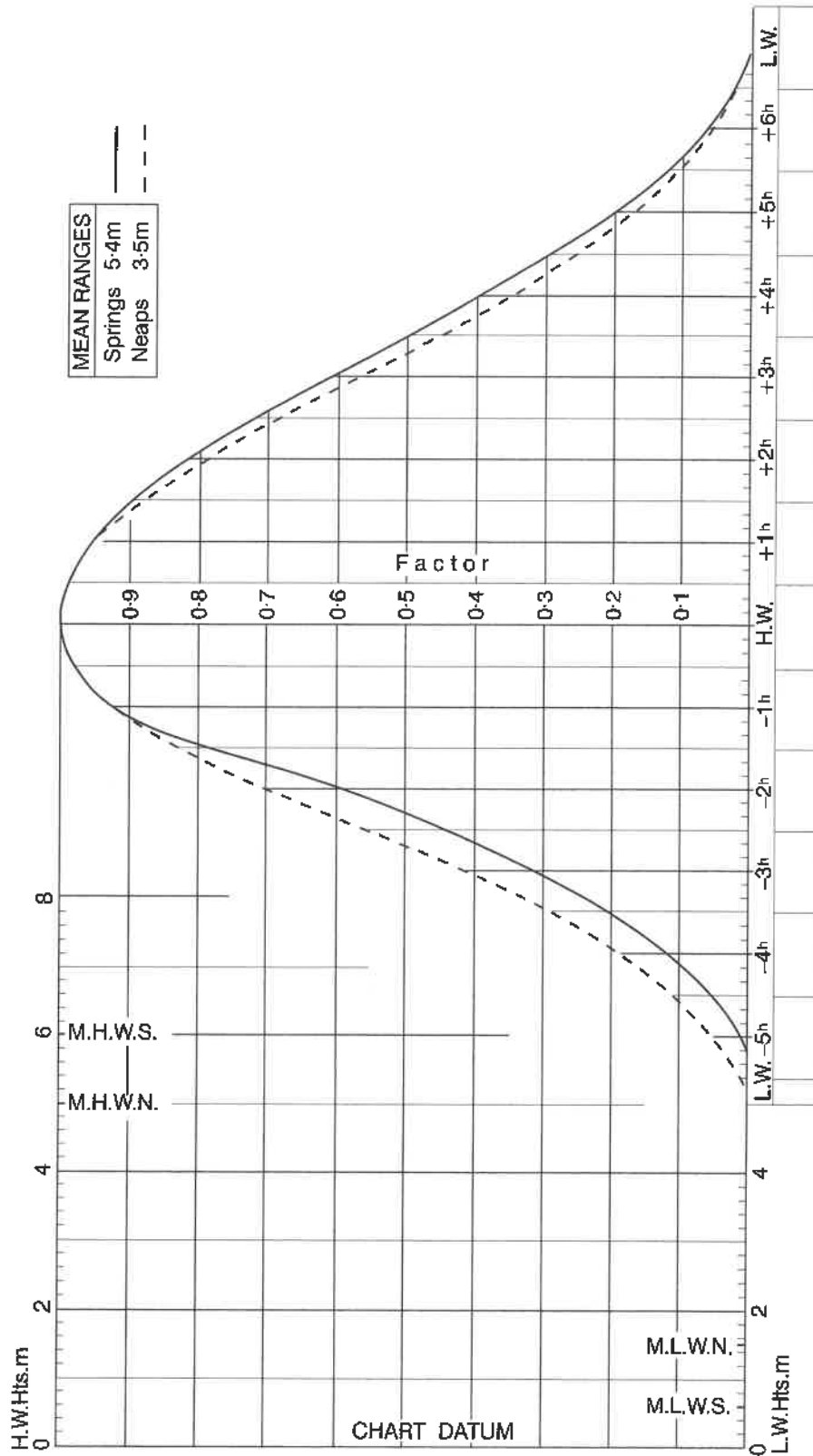
TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2001

SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1 0429 1105 SA 1850 2321	3.7 0.7 3.9 0.7	16 0408 1038 SU 1636 2306	4.0 0.4 4.2 0.3	1 0442 1111 M 1701 2320	3.8 0.6 4.0 0.7	16 0438 1107 TU 1702 ● 2331	4.2 0.2 4.4 0.2	1 0516 1133 TH 1731 O 2346	4.0 0.7 4.1 0.7	16 0544 1213 F 1803	4.3 0.4 4.2	1 0524 1148 SA 1740	4.1 0.7 4.1	16 0015 0608 SU 1237 1823	0.6 4.2 0.7 4.0
2 0508 1139 SU 1727 O 2349	3.8 0.6 4.0 0.7	17 0458 1127 M 1722 ● 2352	4.2 0.2 4.3 0.1	2 0516 1137 TU 1733 O 2345	3.9 0.6 4.0 0.6	17 0522 1151 W 1744	4.3 0.1 4.4	2 0547 1205 F 1801	4.0 0.7 4.1	17 0032 0623 SA 1253 1840	0.4 4.2 0.5 4.1	2 0004 0601 SU 1226 1818	0.7 4.1 0.7 4.1	17 0054 0646 M 1314 1858	0.7 4.1 0.6 3.9
3 0543 1206 M 1801	3.9 0.6 4.0	18 0544 1211 TU 1806	4.3 0.0 4.4	3 0546 1202 W 1801	4.0 0.6 4.1	18 0012 0604 TH 1233 1824	0.1 4.3 0.1 4.3	3 0020 0618 SA 1240 1833	0.7 4.0 0.7 4.1	18 0112 0702 SU 1332 1916	0.5 4.1 0.7 4.0	3 0045 0641 M 1310 1900	0.7 4.1 0.7 4.1	18 0131 0723 TU 1350 1933	0.8 4.0 0.9 3.8
4 0013 0613 TU 1232 1830	0.7 3.9 0.6 4.0	19 0035 0626 W 1254 1848	0.1 4.3 0.0 4.4	4 0012 0613 TH 1229 1828	0.6 4.0 0.6 4.0	19 0053 0644 F 1313 1902	0.2 4.3 0.3 4.2	4 0056 0652 SU 1318 1910	0.7 4.0 0.8 4.0	19 0151 0740 M 1410 1953	0.7 4.0 0.9 3.8	4 0128 0725 TU 1355 1945	0.7 4.1 0.8 4.0	19 0208 0801 W 1427 2009	0.9 3.9 1.1 3.7
5 0041 0642 W 1258 1858	0.7 3.9 0.7 4.0	20 0117 0708 TH 1336 1928	0.1 4.2 0.1 4.2	5 0043 0642 F 1300 1857	0.7 3.9 0.7 4.0	20 0134 0723 SA 1353 1940	0.4 4.1 0.5 4.0	5 0135 0731 M 1400 1951	0.8 4.0 0.9 3.9	20 0231 0820 TU 1451 2031	0.9 3.8 1.1 3.6	5 0214 0812 W 1444 2034	0.8 4.0 0.9 3.8	20 0247 0841 TH 1507 2049	1.1 3.7 1.2 3.6
6 0112 0710 TH 1328 1927	0.7 3.8 0.7 3.9	21 0159 0750 F 1418 2009	0.3 4.1 0.3 4.0	6 0117 0712 SA 1335 1929	0.7 3.9 0.8 4.0	21 0214 0803 SU 1434 2018	0.6 3.9 0.7 3.8	6 0219 0815 TU 1448 2038	0.9 3.9 1.0 3.8	21 0315 0904 W 1536 2115	1.1 3.6 1.3 3.4	6 0306 0905 TH 1539 2130	0.9 3.9 1.0 3.7	21 0330 0924 F 1552 2134	1.2 3.8 1.3 3.5
7 0145 0741 F 1403 1959	0.8 3.8 0.8 3.9	22 0242 0831 SA 1501 2050	0.5 3.9 0.5 3.8	7 0153 0747 SU 1414 2007	0.8 3.9 0.9 3.9	22 0257 0844 M 1516 2059	0.8 3.7 1.0 3.5	7 0310 0907 W 1543 2135	1.1 3.7 1.2 3.6	22 0406 0954 TH 1630 2207	1.3 3.4 1.5 3.2	7 0404 1005 F 1639 2232	1.0 3.7 1.1 3.6	22 0419 1013 SA 1844 2226	1.3 3.5 1.4 3.4
8 0221 0815 SA 1440 2035	0.9 3.8 0.9 3.8	23 0326 0914 SU 1545 2133	0.7 3.7 0.8 3.5	8 0232 0827 M 1458 2050	1.0 3.8 1.0 3.7	23 0343 0929 TU 1605 2145	1.1 3.5 1.2 3.3	8 0411 1010 TH 1649 2242	1.2 3.6 1.3 3.4	23 0507 1057 F 1734 2315	1.4 3.3 1.5 3.1	8 0508 1111 SA 1748 2340	1.1 3.6 1.2 3.5	23 0517 1108 SU 1744 2326	1.4 3.4 1.5 3.3
9 0259 0854 SU 1522 2117	1.0 3.7 1.0 3.7	24 0414 1001 M 1636 2222	1.0 3.4 1.1 3.3	9 0319 0916 TU 1551 2145	1.1 3.8 1.2 3.5	24 0438 1025 W 1704 2245	1.3 3.3 1.4 3.1	9 0523 1125 F 1807	1.3 3.5 1.3	24 0617 1215 SA 1844	1.5 3.3 1.5	9 0620 1223 SU 1902	1.1 3.6 1.1	24 0620 1211 M 1847	1.4 3.4 1.4
10 0343 0940 M 1612 2209	1.1 3.6 1.2 3.5	25 0511 1101 TU 1738 2331	1.2 3.2 1.3 3.1	10 0418 1018 W 1858 2253	1.3 3.5 1.4 3.3	25 0548 1146 TH 1819	1.5 3.1 1.5	10 0001 0643 SA 1249 1927	3.4 1.2 3.5 1.1	25 0040 0723 SU 1326 1947	3.2 1.4 3.4 1.4	10 0052 0733 M 1333 2010	3.6 1.0 3.7 1.0	25 0034 0721 TU 1315 1947	3.4 1.4 3.5 1.3
11 0439 1040 TU 1717 2315	1.3 3.4 1.3 3.4	26 0623 1227 W 1858	1.4 3.1 1.4	11 0535 1135 TH 1820	1.4 3.3 1.4	26 0020 0707 F 1316 1940	3.0 1.4 3.2 1.5	11 0123 0759 SU 1403 2037	3.5 1.0 3.7 0.9	26 0150 0821 M 1421 2041	3.4 1.2 3.6 1.2	11 0201 0838 TU 1435 2109	3.7 0.9 3.9 0.8	26 0140 0819 W 1413 2042	3.5 1.2 3.6 1.2
12 0555 1154 W 1839	1.4 3.3 1.4	27 0107 0747 TH 1352 2026	3.0 1.3 3.2 1.3	12 0016 0700 F 1305 1945	3.3 1.3 3.4 1.2	27 0148 0820 SA 1420 2046	3.2 1.3 3.4 1.3	12 0231 0904 M 1503 2134	3.8 0.7 4.0 0.6	27 0242 0909 TU 1507 2126	3.6 1.1 3.7 1.0	12 0301 0937 W 1530 2203	3.9 0.7 4.0 0.7	27 0238 0912 TH 1506 2134	3.6 1.1 3.7 1.0
13 0034 0720 TH 1319 2002	3.3 1.3 3.4 1.2	28 0224 0903 F 1454 2132	3.2 1.1 3.4 1.1	13 0143 0819 SA 1425 2058	3.4 1.0 3.7 0.9	28 0245 0915 SU 1509 2135	3.4 1.1 3.6 1.0	13 0327 0959 TU 1554 2224	4.0 0.5 4.2 0.5	28 0327 0952 W 1548 2208	3.7 0.9 3.9 0.9	13 0355 1029 TH 1621 2251	4.0 0.6 4.1 0.6	28 0330 1003 F 1555 2223	3.8 1.0 3.9 0.9
14 0158 0837 F 1439 2115	3.4 1.0 3.6 0.9	29 0320 0956 SA 1543 2217	3.4 0.9 3.7 0.9	14 0253 0925 SU 1526 2156	3.7 0.7 4.0 0.6	29 0330 0958 M 1551 2212	3.6 0.9 3.8 0.9	14 0417 1047 W 1641 2310	4.2 0.4 4.3 0.4	29 0407 1032 TH 1627 2247	3.9 0.8 4.0 0.8	14 0443 1116 F 1706 ● 2335	4.1 0.6 4.1 0.6	29 0419 1051 SA 1841 2309	3.9 0.8 4.0 0.7
15 0310 0943 SA 1543 2215	3.7 0.7 3.9 0.5	30 0404 1038 SU 1624 2252	3.7 0.7 3.9 0.8	15 0349 1019 M 1616 2246	4.0 0.4 4.2 0.3	30 0409 1034 TU 1628 2244	3.8 0.8 4.0 0.7	15 0502 1132 TH 1724 ● 2352	4.3 0.3 4.3 0.3	30 0448 1110 F 1703 O 2325	4.0 0.7 4.1 0.7	15 0528 1158 SA 1747	4.2 0.6 4.1	30 0506 1136 SU 1728 O 2353	4.1 0.7 4.1 0.6
				31 0444 1104 W 1701 2314	3.9 0.7 4.1 0.7								31 0551 1220 M 1810	4.2 0.6 4.1	

DUNKERQUE

MEAN SPRING AND NEAP CURVES
 Springs occur 2 days after New and Full Moon.



FRANCE – DUNKERQUE

LAT 51°03'N LONG 2°22'E

TIME ZONE –0100

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2001

MAY				JUNE				JULY				AUGUST			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1 0042	1.2	16 0110	1.6	1 0310	0.9	16 0240	1.4	1 0346	0.9	16 0247	1.4	1 0531	1.2	16 0432	1.3
0630	5.1	0706	4.6	0856	5.3	0824	4.9	0926	5.3	0827	5.0	1101	5.2	1013	5.2
TU 1328	1.4	W 1349	1.8	F 1544	1.2	SA 1517	1.6	SU 1616	1.2	M 1523	1.5	W 1756	1.2	TH 1705	1.2
1914	4.8	1936	4.5	2127	5.3	2050	4.9	2153	5.3	2054	5.0	2328	5.3	2243	5.4
2 0207	1.3	17 0229	1.6	2 0417	0.8	17 0348	1.3	2 0450	1.0	17 0358	1.3	2 0622	1.2	17 0541	1.1
0755	5.1	0824	4.6	0957	5.6	0926	5.0	1023	5.3	0932	5.1	1152	5.3	1115	5.5
W 1454	1.4	TH 1513	1.7	SA 1647	1.0	SU 1617	1.4	M 1718	1.1	TU 1629	1.4	TH 1843	1.0	F 1807	0.9
2046	4.9	2055	4.6	2222	5.5	2149	5.1	2248	5.4	2200	5.2	2339	5.8	2339	5.8
3 0331	1.1	18 0346	1.5	3 0517	0.7	18 0444	1.1	3 0547	0.9	18 0500	1.1	3 0014	5.5	18 0638	0.8
0921	5.3	0933	4.9	1048	5.6	1019	5.2	1115	5.4	1033	5.3	0703	1.1	1205	5.8
TH 1610	1.2	F 1617	1.5	SU 1741	0.9	M 1709	1.2	TU 1810	1.0	W 1727	1.1	F 1233	5.5	SA 1900	0.6
2156	5.2	2155	4.9	2309	5.6	2239	5.3	2338	5.5	2258	5.4	1923	0.8		
4 0444	0.8	19 0444	1.2	4 0608	0.6	19 0534	0.9	4 0634	0.9	19 0557	1.0	4 0051	5.6	19 0023	6.1
1023	5.6	1025	5.2	1133	5.7	1105	5.4	1201	5.5	1127	5.5	0739	1.0	0727	0.6
F 1714	0.9	SA 1708	1.2	M 1827	0.8	TU 1756	1.0	W 1855	0.9	TH 1821	0.9	SA 1310	5.6	SU 1250	6.0
2249	5.5	2242	5.2	2353	5.7	2324	5.5			2350	5.7	O 2000	0.7	● 1947	0.3
5 0543	0.6	20 0530	1.0	5 0652	0.7	20 0620	0.8	5 0019	5.6	20 0649	0.8	5 0127	5.7	20 0109	6.3
1113	5.8	1108	5.4	1214	5.7	1147	5.6	0716	0.9	1215	5.7	0813	1.0	0813	0.5
SA 1805	0.7	SU 1750	1.0	TU 1909	0.8	W 1841	0.8	TH 1243	5.6	F 1911	0.7	SU 1343	5.7	M 1333	6.1
2335	5.7	2322	5.4					O 1936	0.8	●	2034	0.7	M 1333	6.1	
6 0631	0.4	21 0611	0.8	6 0030	5.8	21 0012	5.7	6 0101	5.7	21 0035	6.0	6 0200	5.7	21 0155	6.3
1155	5.9	1144	5.6	0732	0.7	0706	0.7	0754	0.9	0739	0.6	0846	0.9	0858	0.5
SU 1849	0.7	M 1828	0.9	W 1254	5.7	TH 1228	5.8	F 1323	5.6	SA 1303	5.9	M 1413	5.7	TU 1417	6.2
		2359	5.6	O 1950	0.7	● 1925	0.7	2015	0.7	2000	0.4	2107	0.7	2119	0.1
7 0014	5.9	22 0650	0.7	7 0112	5.8	22 0048	5.9	7 0141	5.7	22 0123	6.2	7 0231	5.7	22 0241	6.3
0714	0.4	1216	5.7	0810	0.7	0751	0.6	0831	0.9	0827	0.8	0919	0.9	0942	0.5
M 1234	6.0	TU 1906	0.7	TH 1334	5.7	F 1313	5.9	SA 1400	5.6	SU 1350	6.0	TU 1442	5.7	W 1501	6.1
O 1930	0.6			2029	0.7	2011	0.5	2052	0.7	2048	0.3	2139	0.7	2203	0.2
8 0049	6.0	23 0026	5.8	8 0153	5.8	23 0133	6.0	8 0218	5.7	23 0212	6.2	8 0304	5.7	23 0327	6.2
0754	0.4	0729	0.6	0849	0.8	0838	0.6	0907	0.9	0915	0.5	0951	1.0	1026	0.7
TU 1312	6.0	W 1249	5.8	F 1413	5.7	SA 1401	5.9	SU 1434	5.6	M 1439	6.0	W 1513	5.8	TH 1545	6.0
2009	0.6	● 1948	0.6	2107	0.7	2058	0.4	2128	0.8	2136	0.2	2210	0.6	2248	0.3
9 0129	6.0	24 0103	5.9	9 0233	5.7	24 0223	6.1	9 0254	5.6	24 0301	6.2	9 0336	5.6	24 0413	5.9
0832	0.5	0810	0.5	0925	0.9	0926	0.6	0942	1.0	1003	0.6	1022	1.0	1109	0.8
W 1351	5.9	TH 1327	5.9	SA 1451	5.6	SU 1453	5.9	M 1508	5.5	TU 1527	6.0	TH 1546	5.5	F 1630	5.8
2048	0.6	2027	0.5	2145	0.8	2147	0.4	2202	0.8	2224	0.2	2241	0.9	2333	0.6
10 0209	6.0	25 0144	6.0	10 0312	5.6	25 0314	6.0	10 0331	5.5	25 0351	6.1	10 0408	5.5	25 0501	5.7
0909	0.6	0851	0.5	1001	1.0	1015	0.7	1016	1.1	1050	0.7	1054	1.1	1155	1.1
TH 1430	5.8	F 1409	5.9	SU 1528	5.4	M 1545	5.8	TU 1543	5.4	W 1615	5.8	F 1618	5.4	SA 1720	5.6
2126	0.6	2109	0.5	2221	0.9	2237	0.5	2236	0.9	2313	0.4	2314	1.0		
11 0249	5.9	26 0229	6.0	11 0353	5.4	26 0408	5.9	11 0409	5.4	26 0441	5.9	11 0441	5.3	26 0025	1.0
0946	0.7	0934	0.6	1038	1.2	1106	0.8	1050	1.2	1139	0.9	1130	1.3	0555	5.3
F 1809	5.6	SA 1457	5.8	M 1608	5.3	TU 1637	5.6	W 1622	5.3	TH 1704	5.7	SA 1655	5.3	SU 1247	1.4
2203	0.8	2154	0.6	2259	1.1	2330	0.6	2311	1.0			2352	1.1	1821	5.3
12 0329	5.7	27 0319	5.9	12 0436	5.2	27 0502	5.7	12 0450	5.3	27 0001	0.6	12 0525	5.2	27 0122	1.3
1022	1.0	1020	0.8	1117	1.4	1201	1.0	1127	1.3	0534	5.6	1213	1.4	0702	5.0
SA 1547	5.4	SU 1551	5.6	TU 1652	5.1	W 1731	5.5	TH 1704	5.2	F 1231	1.1	SU 1747	5.1	M 1352	1.6
2240	1.0	2241	0.7	2340	1.2			2349	1.1	1759	5.5			1937	5.0
13 0412	5.4	28 0415	5.7	13 0525	5.0	28 0032	0.7	13 0535	5.1	28 0103	0.8	13 0043	1.3	28 0231	1.6
1100	1.2	1110	1.0	1201	1.5	0602	5.5	1210	1.4	0634	5.4	0628	5.0	0821	4.8
SU 1630	5.1	M 1649	5.4	W 1743	4.9	TH 1301	1.1	F 1753	5.0	SA 1329	1.3	M 1310	1.6	TU 1511	1.7
2321	1.2	2335	0.8			1834	5.3			1903	5.3	1857	4.9	2100	4.9
14 0500	5.1	29 0515	5.5	14 0029	1.4	29 0135	0.8	14 0038	1.3	29 0204	1.0	14 0150	1.5	29 0357	1.7
1143	1.5	1210	1.2	0620	4.9	0710	5.4	0627	5.0	0743	5.1	0739	4.9	0838	4.8
M 1720	4.8	TU 1749	5.2	TH 1255	1.6	F 1406	1.2	SA 1301	1.5	SU 1433	1.4	TU 1429	1.7	W 1637	1.5
				1841	4.8	1945	5.2	1848	4.9	2015	5.1	2011	4.9	2215	5.0
15 0006	1.4	30 0043	1.0	15 0128	1.5	30 0240	0.9	15 0135	1.4	30 0310	1.2	15 0315	1.5	30 0513	1.5
0558	4.8	0620	5.3	0720	4.8	0822	5.3	0724	4.9	0854	5.0	0855	4.9	1046	5.0
TU 1237	1.7	W 1321	1.3	F 1404	1.7	SA 1511	1.3	SU 1407	1.6	M 1544	1.4	W 1553	1.5	TH 1739	1.3
1822	4.6	1859	5.1	1944	4.7	2053	5.2	1949	4.9	2125	5.1	2132	5.1	2315	5.3
		31 0157	1.0					31 0424	1.3					31 0606	1.3
		0738	5.2					TU 1001	5.0					1137	5.3
		TH 1435	1.3					TU 1658	1.3					F 1827	1.0
		2020	5.1					2231	5.2						

FRANCE – DUNKERQUE

LAT 51°03'N LONG 2°22'E

TIME ZONE –0100

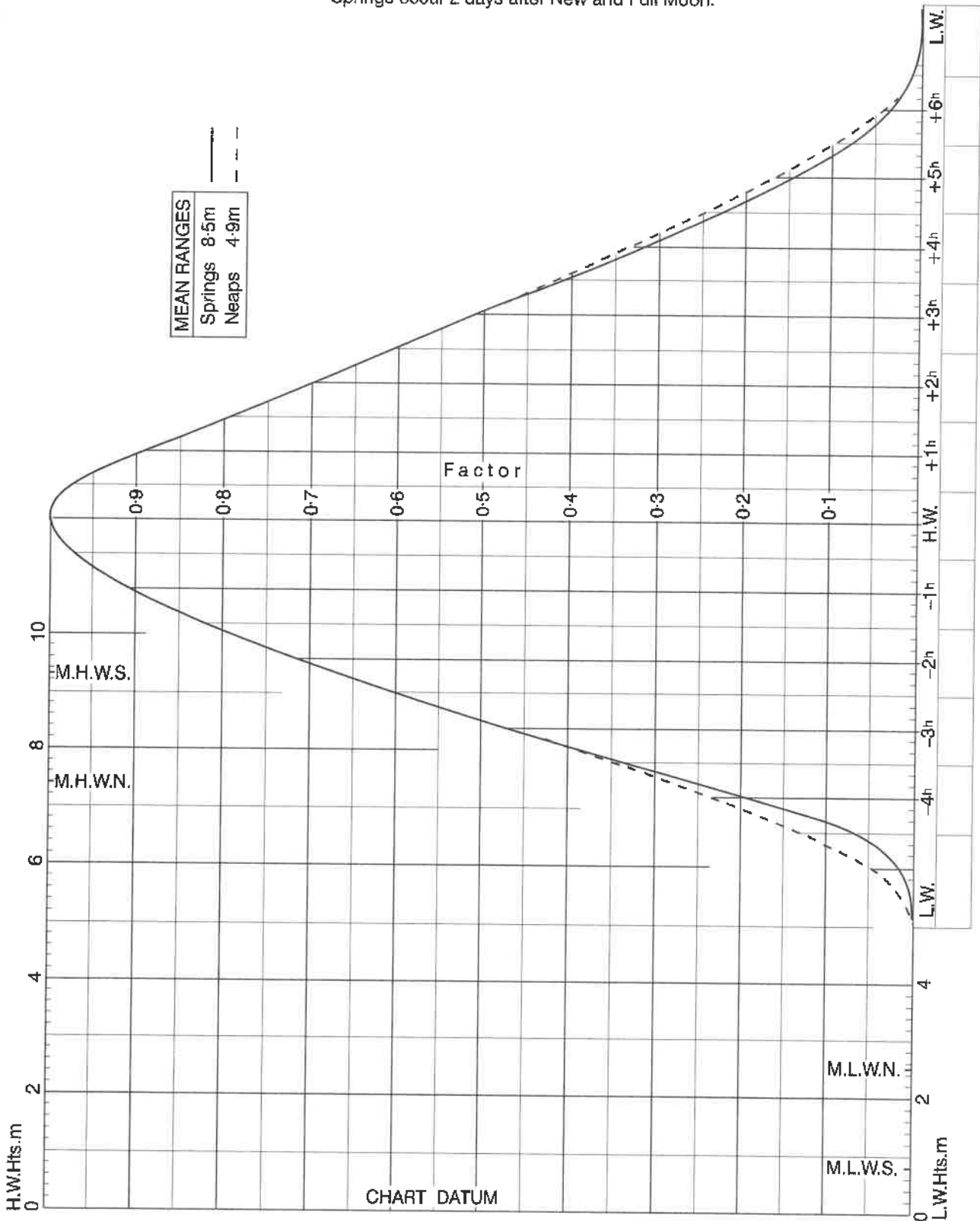
TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2001

SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1 0000 0646 SA 1216 1905	5.5 1.1 5.5 0.8	16 0624 1150 SU 1845	0.8 5.8 0.5	1 0010 0652 M 1222 1911	5.7 1.0 5.7 0.8	16 0651 1208 TU 1909	0.7 6.1 0.3	1 0034 0721 TH 1244 O 1938	5.9 0.9 5.9 0.7	16 0049 0750 F 1303 2009	6.1 0.7 6.2 0.6	1 0033 0729 SA 1246 1947	5.9 0.9 5.9 0.8	16 0115 0814 SU 1334 2032	5.9 0.8 6.0 0.9
2 0035 0719 SU 1249 O 1939	5.7 1.0 5.7 0.7	17 0014 0711 M 1231 ● 1930	6.2 0.6 6.1 0.3	2 0040 0722 TU 1251 O 1940	5.8 0.9 5.8 0.7	17 0030 0732 W 1245 1951	6.3 0.6 6.2 0.3	2 0100 0755 F 1311 2012	5.9 0.8 5.9 0.7	17 0129 0829 SA 1344 2049	6.1 0.7 6.1 0.7	2 0108 0808 SU 1323 2027	5.9 0.8 6.0 6.0	17 0155 0853 M 1416 2110	5.8 0.8 5.9 1.0
3 0107 0750 M 1319 2009	5.8 0.9 5.8 0.7	18 0051 0754 TU 1310 2014	6.4 0.5 6.2 0.2	3 0107 0752 W 1316 2010	5.9 0.9 5.9 0.7	18 0110 0812 TH 1324 2032	6.3 0.6 6.3 0.3	3 0130 0829 SA 1341 2046	6.0 0.8 6.0 0.8	18 0209 0909 SU 1427 2127	6.0 0.8 6.0 0.9	3 0147 0849 M 1404 2108	6.0 0.8 6.0 0.8	18 0234 0932 TU 1457 2146	5.7 0.9 5.7 1.1
4 0136 0821 TU 1346 2040	5.8 0.9 5.8 0.7	19 0134 0836 W 1350 2056	6.4 0.5 6.3 0.2	4 0132 0824 TH 1341 2041	5.9 0.8 5.9 0.7	19 0151 0852 F 1405 2112	6.3 0.6 6.2 0.5	4 0201 0903 SU 1414 2121	6.0 0.8 6.0 0.9	19 0250 0948 M 1510 2205	5.8 0.9 5.8 1.1	4 0229 0931 TU 1449 2151	5.9 0.8 5.9 1.0	19 0312 1009 W 1537 2222	5.6 1.0 5.6 1.3
5 0204 0853 W 1412 2111	5.9 0.9 5.8 0.7	20 0216 0917 TH 1431 2138	6.3 0.6 6.2 0.3	5 0158 0855 F 1407 2112	5.9 0.8 5.9 0.7	20 0231 0931 SA 1446 2151	6.1 0.7 6.1 0.7	5 0236 0939 M 1451 2157	5.9 0.9 5.9 1.0	20 0330 1027 TU 1555 2243	5.6 1.1 5.5 1.4	5 0316 1018 W 1539 2237	5.7 0.9 5.8 1.1	20 0350 1046 TH 1617 2300	5.4 1.2 5.3 1.5
6 0231 0923 TH 1440 2141	5.8 0.9 5.8 0.7	21 0259 0958 F 1513 2219	6.2 0.7 6.1 0.5	6 0226 0925 SA 1435 2143	5.9 0.9 5.9 0.8	21 0313 1010 SU 1529 2229	5.9 0.9 5.9 1.0	6 0316 1018 TU 1534 2238	5.7 1.1 5.7 1.2	21 0413 1108 W 1643 2326	5.3 1.4 5.2 1.7	6 0409 1105 TH 1638 2330	5.5 1.0 5.6 1.3	21 0432 1124 F 1701 2341	5.2 1.3 5.1 1.6
7 0259 0952 F 1507 2210	5.8 0.9 5.7 0.8	22 0342 1038 SA 1557 2300	5.9 0.9 5.9 0.8	7 0254 0956 SU 1605 2214	5.8 1.0 5.8 1.0	22 0355 1050 M 1616 2310	5.6 1.1 5.6 1.3	7 0405 1104 W 1632 2329	5.4 1.2 5.4 1.5	22 0502 1154 TH 1739 2329	5.0 1.6 4.9	7 0507 1203 F 1742	5.3 1.1 5.4	22 0519 1208 SA 1753	5.0 1.5 4.9
8 0325 1022 SA 1535 2241	5.7 1.0 5.6 0.9	23 0426 1120 SU 1645 2343	5.6 1.1 5.6 1.2	8 0328 1031 M 1541 2251	5.6 1.1 5.6 1.2	23 0441 1133 TU 1710 2357	5.2 1.4 5.2 1.7	8 0514 1203 TH 1753	5.1 1.4 5.1	23 0020 0602 F 1253 1849	1.9 4.7 1.8 4.7	8 0037 0612 SA 1312 1854	1.5 5.2 1.2 5.2	23 0032 0614 SU 1302 1852	1.8 4.8 1.6 4.8
9 0355 1056 SU 1607 2317	5.5 1.2 5.5 1.1	24 0516 1207 M 1743	5.3 1.4 5.2	9 0410 1113 TU 1629 2338	5.4 1.3 5.3 1.4	24 0537 1228 W 1820	4.8 1.7 4.8	9 0043 0631 F 1323 1914	1.7 4.9 1.5 5.0	24 0128 0714 SA 1414 2013	2.0 4.6 1.8 4.7	9 0153 0726 SU 1426 2017	1.6 5.1 1.2 5.3	24 0134 0716 M 1413 2000	1.9 4.7 1.7 4.8
10 0435 1137 M 1652	5.3 1.4 5.3	25 0037 0619 TU 1308 1900	1.6 4.9 1.7 4.8	10 0512 1209 W 1752	5.0 1.6 5.0	25 0102 0654 TH 1345 1950	2.0 4.5 1.9 4.6	10 0213 0756 SA 1450 2045	1.7 4.9 1.4 5.2	25 0254 0836 SU 1531 2121	2.0 4.7 1.7 4.9	10 0307 0844 M 1537 2126	1.5 5.2 1.0 5.4	25 0249 0823 TU 1525 2108	1.8 4.8 1.6 4.9
11 0006 0536 TU 1231 1809	1.4 5.0 1.6 5.0	26 0148 0743 W 1433 2031	1.9 4.6 1.9 4.7	11 0049 0644 TH 1331 1928	1.7 4.8 1.7 4.9	26 0233 0826 F 1521 2114	2.1 4.5 1.9 4.7	11 0337 0920 SU 1606 2154	1.5 5.2 1.1 5.5	26 0402 0939 M 1630 2212	1.8 4.9 1.4 5.2	11 0415 0947 TU 1642 2223	1.3 5.4 0.9 5.6	26 0355 0927 W 1624 2206	1.7 4.9 1.4 5.1
12 0110 0703 W 1351 1943	1.6 4.8 1.7 4.9	27 0323 0910 TH 1608 2152	2.0 4.6 1.7 4.9	12 0226 0817 F 1508 2104	1.8 4.8 1.6 5.1	27 0401 0939 SA 1632 2213	1.9 4.7 1.5 5.1	12 0446 1018 M 1710 2248	1.2 5.5 0.8 5.8	27 0454 1027 TU 1717 2256	1.5 5.2 1.2 5.4	12 0515 1039 W 1739 2313	1.2 5.6 0.8 5.7	27 0451 1022 TH 1716 2254	1.5 5.2 1.2 5.3
13 0243 0833 TH 1526 2117	1.7 4.8 1.6 5.0	28 0446 1020 F 1714 2251	1.7 4.9 1.4 5.2	13 0359 0945 SA 1630 2216	1.5 5.1 1.2 5.5	28 0500 1031 SU 1724 2259	1.6 5.1 1.2 5.4	13 0541 1104 TU 1802 2333	1.0 5.8 0.6 6.0	28 0537 1108 W 1757 2333	1.3 5.4 1.0 5.6	13 0608 1125 TH 1828	1.0 5.8 0.7	28 0540 1108 F 1802 2338	1.3 5.4 1.1 5.5
14 0414 1001 F 1648 2231	1.5 5.1 1.3 5.4	29 0540 1110 SA 1802 2335	1.4 5.2 1.1 5.5	14 0511 1044 SU 1734 2309	1.2 5.5 0.8 5.9	29 0543 1113 M 1804 2336	1.3 5.4 1.0 5.6	14 0628 1144 W 1847	0.8 6.0 0.5	29 0615 1142 TH 1833	1.1 5.6 0.9	14 0000 0652 F 1208 ● 1912	5.8 0.9 5.9 0.7	29 0625 1149 SA 1846	1.1 5.6 0.9
15 0528 1102 SA 1753 2327	1.1 5.5 0.8 5.9	30 0620 1149 SU 1840	1.2 5.5 0.9	15 0605 1129 M 1825 2356	0.9 5.9 0.5 6.2	30 0618 1148 TU 1836	1.1 5.6 0.9	15 0014 0710 TH 1223 ● 1929	6.1 0.8 6.1 0.5	30 0008 0652 F 1214 O 1910	5.7 1.0 5.8 0.8	15 0034 0734 SA 1250 1953	5.9 0.8 5.9 0.8	30 0016 0710 SU 1230 O 1929	5.7 0.9 5.8 0.8
				31 0006 0649 W 1218 1907	5.8 1.0 5.8 0.8							31 0055 0754 M 1312 2014	5.9 0.7 6.0 0.7		

DIEPPE

MEAN SPRING AND NEAP CURVES
 Springs occur 2 days after New and Full Moon.



FRANCE – DIEPPE

LAT 49°56'N LONG 1°05'E

TIME ZONE -0100

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2001

JANUARY				FEBRUARY				MARCH				APRIL			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1 0816 M 0959 1533 2221	7.9 2.3 7.7 2.2	16 0425 1118 1646 2344	8.4 1.7 8.2 1.8	1 0406 1058 1629 2321	7.9 2.3 7.6 2.2	16 0527 1218 1801 2321	7.4 2.5 7.1 2.2	1 0300 0950 1518 2207	8.5 1.6 8.3 1.6	16 0352 1043 1617 2301	8.1 2.0 7.6 2.4	1 0359 1059 1635 2326	7.9 2.1 7.5 2.4	16 0458 1154 1748	6.7 3.0 6.5
2 0357 1044 1618 2308	7.6 2.5 7.5 2.4	17 0518 1211 1744	8.0 2.1 7.7	2 0456 1152 1728	7.6 2.5 7.3	17 0045 0640 1332 1925	2.8 7.0 2.8 6.8	2 0335 1028 1559 2249	8.2 1.9 7.9 2.0	17 0437 1130 1712 2356	7.4 2.6 6.9 3.0	2 0505 1207 1759	7.3 2.4 7.1	17 0033 0630 1321 1925	3.3 6.4 3.1 6.6
3 0448 1138 1714	7.4 2.7 7.2	18 0036 0621 1313 1851	2.2 7.6 2.4 7.4	3 0019 0604 1302 1847	2.5 7.4 2.6 7.2	18 0208 0810 1455 2051	3.0 6.9 2.7 7.0	3 0420 1118 1653 2344	7.8 2.2 7.5 2.4	18 0544 1240 1837	6.7 3.0 6.5	3 0045 0645 1341 1939	2.7 7.2 2.4 7.3	18 0209 0803 1444 2039	3.2 6.7 2.7 7.1
4 0003 0551 1242 1824	2.6 7.3 2.7 7.2	19 0142 0734 1424 2007	2.5 7.4 2.5 7.3	4 0136 0732 1426 2012	2.5 7.5 2.4 7.5	19 0331 0923 1607 2152	2.7 7.3 2.3 7.5	4 0524 1225 1812	7.4 2.5 7.1	19 0121 0726 1412 2018	3.3 6.5 3.0 6.7	4 0226 0818 1511 2058	2.4 7.6 1.9 7.9	19 0322 0905 1547 2129	2.6 7.3 2.2 7.7
5 0112 0706 1355 1939	2.6 7.4 2.5 7.4	20 0255 0846 1534 2115	2.5 7.8 2.3 7.5	5 0302 0849 1544 2122	2.2 7.9 1.9 8.0	20 0435 1014 1702 2237	2.3 7.8 1.9 7.9	5 0101 0659 1356 1950	2.6 7.2 2.5 7.3	20 0256 0853 1533 2124	3.0 6.9 2.6 7.2	5 0347 0929 1623 2200	1.8 8.3 1.3 8.6	20 0416 0951 1637 2210	2.1 7.9 1.7 8.2
6 0226 0817 1508 2046	2.3 7.8 2.1 7.8	21 0401 0945 1634 2210	2.3 7.9 2.0 7.8	6 0416 0954 1651 2224	1.7 8.5 1.3 8.6	21 0524 1054 1746 2314	1.9 8.2 1.5 8.3	6 0239 0831 1525 2110	2.4 7.6 2.0 7.9	21 0407 0947 1632 2209	2.5 7.5 2.0 7.8	6 0454 1026 1725 2250	1.2 8.9 0.7 9.2	21 0501 1030 1721 2248	1.6 8.4 1.3 8.6
7 0338 0918 1613 2144	1.9 8.3 1.7 8.4	22 0456 1032 1722 2254	2.0 8.2 1.7 8.2	7 0520 1051 1752 2319	1.3 9.0 0.8 9.1	22 0605 1130 1825 2348	1.6 8.6 1.2 8.6	7 0400 0942 1637 2214	1.8 8.3 1.3 8.6	22 0458 1028 1718 2247	1.9 8.1 1.6 8.3	7 0552 1114 1818 2336	0.8 9.4 0.4 9.5	22 0542 1107 1800 2323	1.3 8.7 1.1 8.9
8 0439 1012 1711 2238	1.5 8.7 1.2 8.8	23 0541 1112 1804 2332	1.8 8.4 1.5 8.4	8 0620 1144 1850 O	0.9 9.4 0.4	23 0641 1203 1900 •	1.3 8.8 1.1	8 0508 1041 1741 2308	1.3 8.9 0.7 9.2	23 0539 1104 1758 2321	1.5 8.5 1.2 8.7	8 0642 1158 1904 O	0.5 9.6 0.2	23 0620 1143 1838 •	1.1 9.0 0.9 9.1
9 0536 1104 1808 2330	1.2 9.2 0.8 9.2	24 0621 1147 1842 •	1.6 8.6 1.3	9 0014 0715 1233 1942	9.5 0.6 9.7 0.2	24 0022 0715 1236 1934	8.8 1.2 9.0 0.9	9 0609 1132 1838 O	0.8 9.5 0.3 9.6	24 0616 1138 1834 2355	1.3 8.8 1.0 8.9	9 0021 0725 1239 1945	9.6 0.4 0.7 0.3	24 0656 1217 1913	0.9 9.1 0.8
10 0630 1154 1859	0.9 9.5 0.6	25 0008 0658 1222 1918	8.6 1.4 8.8 1.2	10 0103 0805 1320 2030	9.7 0.4 9.8 0.1	25 0054 0747 1308 2005	8.9 1.1 9.0 0.9	10 0703 1218 1927	0.5 9.8 0.1	25 0651 1212 1908 •	1.1 9.0 0.8	10 0059 0803 1317 2020	9.6 0.5 9.6 0.5	25 0033 0732 1252 1948	9.2 0.8 9.2 0.8
11 0025 0723 1243 1951	9.4 0.7 9.6 0.4	26 0042 0733 1255 1952	8.7 1.4 8.8 1.2	11 0147 0850 1404 2112	9.7 0.4 9.8 0.2	26 0125 0818 1340 2035	9.0 1.1 9.0 0.9	11 0044 0749 1302 2011	9.8 0.3 9.9 0.0	26 0028 0724 1244 1941	9.0 0.9 9.1 0.8	11 0135 0836 1354 2052	9.4 0.7 9.3 0.8	26 0107 0807 1327 2022	9.2 0.8 9.2 0.9
12 0114 0813 1332 2040	9.5 0.7 9.6 0.4	27 0115 0805 1329 2024	8.7 1.4 8.8 1.2	12 0230 0930 1447 2151	9.5 0.7 9.5 0.6	27 0156 0847 1411 2104	8.9 1.2 8.9 1.1	12 0125 0829 1342 2049	9.8 0.3 9.8 0.2	27 0100 0756 1316 2012	9.1 0.9 9.2 0.8	12 0210 0907 1430 2120	9.1 1.0 8.9 1.3	27 0143 0842 1405 2057	9.1 0.9 9.0 1.1
13 0202 0901 1420 2127	9.5 0.8 9.5 0.5	28 0148 0835 1401 2054	8.7 1.5 8.7 1.3	13 0310 1007 1528 2227	9.1 1.0 9.0 1.1	28 0227 0918 1443 2134	8.8 1.3 8.7 1.3	13 0204 0905 1421 2123	9.6 0.6 9.5 0.6	28 0131 0827 1348 2042	9.1 0.9 9.1 0.9	13 0244 0936 1505 2149	8.6 1.4 8.3 1.8	28 0220 0919 1446 2136	8.9 1.2 8.6 1.5
14 0250 0947 1507 2212	9.2 1.0 9.2 0.8	29 0219 0906 1433 2124	8.6 1.6 8.5 1.4	14 0351 1043 1611 2303	8.6 1.5 8.4 1.7	15 0434 1124 1859 2347	8.0 2.1 7.7 2.3	14 0240 0937 1458 2153	9.2 0.9 9.0 1.1	29 0203 0859 1422 2113	9.0 1.1 8.9 1.1	14 0318 1009 1544 2225	8.0 2.0 7.7 2.4	29 0302 1001 1533 2222	8.4 1.5 8.1 1.9
15 0337 1032 1555 2256	8.9 1.3 8.7 1.3	30 0252 0938 1507 2157	8.4 1.8 8.3 1.7	15 0434 1124 1859 2347	8.0 2.1 7.7 2.3	15 0434 1124 1859 2347	8.0 2.1 7.7 2.3	15 0316 1007 1536 2223	8.7 1.4 8.4 1.7	30 0237 0931 1458 2147	8.8 1.3 8.5 1.5	15 0359 1052 1633 2315	7.4 2.5 7.0 3.0	30 0352 1053 1633 2321	7.9 1.9 7.6 2.3
31 0327 1014 1544 2234	8.2 2.0 8.0 1.9							31 0314 1009 1540 2229	8.4 1.7 8.1 2.0						

FRANCE – DIEPPE

LAT 49°56'N LONG 1°05'E

TIME ZONE -0100

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2001

MAY			JUNE			JULY			AUGUST						
Time	m		Time	m		Time	m		Time	m					
1 0504 1203 TU 1757	7.5 2.2 7.4	16 0536 1226 W 1822	6.7 2.9 6.7	1 0151 0733 F 1428 2008	2.0 7.8 1.7 8.1	16 0113 0702 SA 1345 1936	2.7 7.1 2.5 7.3	1 0225 0808 SU 1459 2037	1.9 7.8 1.8 8.0	16 0119 0706 M 1352 1940	2.6 7.2 2.5 7.4	1 0406 0953 W 1633 2211	2.1 7.8 2.1 8.0	16 0312 0858 TH 1544 2122	2.2 7.7 2.0 8.1
2 0041 0637 W 1333 1925	2.5 7.4 2.2 7.6	17 0107 0658 TH 1343 1937	3.1 6.7 2.8 7.0	2 0300 0841 SA 1534 2109	1.7 8.1 1.4 8.4	17 0220 0808 SU 1449 2035	2.4 7.4 2.2 7.7	2 0330 0912 M 1601 2136	1.8 8.0 1.8 8.2	17 0232 0820 TU 1504 2047	2.4 7.5 2.2 7.8	2 0502 1043 TH 1724 2257	1.8 8.1 1.8 8.3	17 0422 1002 F 1649 2222	1.6 8.3 1.5 8.6
3 0213 0801 TH 1455 2038	2.2 7.7 1.7 8.1	18 0221 0809 F 1450 2037	2.7 7.1 2.4 7.5	3 0403 0938 SU 1632 2201	1.5 8.4 1.3 8.7	18 0322 0905 M 1548 2127	2.1 7.8 1.8 8.1	3 0429 1007 TU 1655 2226	1.7 8.2 1.6 8.4	18 0341 0922 W 1609 2144	2.0 7.9 1.8 8.3	3 0549 1124 F 1807 2336	1.5 8.4 1.6 8.5	18 0525 1059 SA 1748 2316	1.1 8.9 1.1 9.1
4 0329 0909 F 1603 2137	1.7 8.3 1.3 8.6	19 0321 0903 SA 1546 2126	2.3 7.6 1.9 8.0	4 0458 1028 M 1723 2247	1.3 8.7 1.2 8.9	19 0418 0955 TU 1642 2214	1.7 8.2 1.5 8.5	4 0520 1055 W 1741 2310	1.5 8.4 1.5 8.5	19 0442 1018 TH 1707 2237	1.5 8.4 1.4 8.7	4 0830 1200 SA 1846 O	1.4 8.6 1.5	19 0625 1150 SU 1846 •	0.7 9.4 0.7
5 0433 1004 SA 1702 2227	1.3 8.8 0.9 9.0	20 0413 0950 SU 1636 2209	1.8 8.1 1.5 8.4	5 0546 1112 TU 1807 2328	1.2 8.8 1.1 8.9	20 0510 1042 W 1733 2259	1.4 8.6 1.2 8.8	5 0604 1136 TH 1822 O 2349	1.4 8.5 1.5 8.6	20 0539 1111 F 1802 • 2328	1.1 8.8 1.1 9.0	5 0011 0708 SU 1234 1922	8.6 1.2 8.7 1.4	20 0009 0720 M 1238 1939	9.5 0.4 9.7 0.5
6 0528 1052 SU 1753 2311	1.0 9.1 0.7 9.3	21 0500 1032 M 1721 2249	1.5 8.5 1.2 8.7	6 0628 1153 W 1845 O	1.1 8.9 1.1	21 0600 1128 TH 1821 • 2344	1.1 8.9 1.0 9.1	6 0645 1215 F 1901	1.3 8.6 1.4	21 0635 1202 SA 1856	0.8 9.2 0.9	6 0046 0743 M 1307 1956	8.7 1.2 8.7 1.4	21 0058 0810 TU 1324 2026	9.7 0.2 9.8 0.4
7 0615 1135 M 1836 O 2352	0.8 9.3 0.7 9.4	22 0545 1112 TU 1804 2327	1.2 8.8 1.0 9.0	7 0004 0706 TH 1231 1922	8.9 1.1 8.8 1.2	22 0649 1214 F 1908	0.9 9.1 0.9	7 0028 0724 SA 1251 1938	8.7 1.2 8.6 1.4	22 0022 0730 SU 1252 1949	9.3 0.6 9.4 0.7	7 0119 0816 TU 1339 2027	8.7 1.2 8.7 1.4	22 0143 0854 W 1408 2109	9.7 0.2 9.7 0.5
8 0656 1215 TU 1915	0.7 9.3 0.7	23 0628 1151 W 1845 •	1.0 9.0 0.9	8 0045 0743 F 1308 1957	8.9 1.1 8.8 1.3	23 0032 0737 SA 1301 1955	9.2 0.7 9.2 0.9	8 0104 0801 SU 1326 2014	8.6 1.3 8.6 1.5	23 0111 0821 M 1340 2038	9.5 0.4 9.5 0.6	8 0151 0845 W 1411 2057	8.7 1.3 8.6 1.6	23 0226 0933 TH 1449 2149	9.5 0.5 9.4 0.8
9 0032 0734 W 1252 1949	9.3 0.8 9.2 0.8	24 0007 0709 TH 1230 1926	9.1 0.8 9.1 0.9	9 0121 0818 SA 1344 2032	8.7 1.2 8.6 1.5	24 0119 0825 SU 1349 2043	9.2 0.7 9.2 0.8	9 0139 0835 M 1402 2047	8.5 1.4 8.5 1.7	24 0200 0909 TU 1427 2125	9.5 0.4 9.4 0.7	9 0223 0914 TH 1441 2126	8.5 1.4 8.4 1.7	24 0308 1010 F 1531 2227	9.1 0.9 9.0 1.3
10 0108 0808 TH 1329 2022	9.2 0.9 9.0 1.1	25 0047 0749 F 1311 2006	9.2 0.8 9.2 0.9	10 0157 0852 SU 1421 2105	8.5 1.5 8.3 1.8	25 0208 0913 M 1438 2131	9.1 0.8 9.0 1.1	10 0214 0906 TU 1437 2119	8.4 1.5 8.3 1.9	25 0247 0954 W 1514 2210	9.3 0.6 9.2 1.0	10 0254 0943 F 1513 2158	8.3 1.7 8.2 1.9	25 0351 1047 SA 1614 2308	8.6 1.5 8.4 1.8
11 0143 0840 F 1405 2053	8.9 1.1 8.7 1.4	26 0128 0831 SA 1355 2047	9.1 0.8 9.0 1.1	11 0233 0924 M 1458 2139	8.1 1.8 8.0 2.2	26 0258 1002 TU 1529 2221	8.9 0.9 8.8 1.3	11 0248 0938 W 1511 2152	8.1 1.7 8.0 2.1	26 0333 1037 TH 1600 2255	9.0 0.9 8.8 1.3	11 0328 1017 SA 1549 2237	8.0 1.9 7.9 2.2	26 0438 1129 SU 1704 2357	7.9 2.1 7.7 2.3
12 0217 0911 SA 1441 2124	8.5 1.5 8.3 1.9	27 0211 0913 SU 1441 2131	8.9 1.0 8.7 1.3	12 0311 1000 TU 1538 2218	7.8 2.1 7.6 2.5	27 0351 1053 W 1623 2315	8.6 1.2 8.5 1.6	12 0324 1013 TH 1548 2230	7.9 2.0 7.8 2.3	27 0422 1121 F 1650 2344	8.5 1.4 8.4 1.7	12 0408 1059 SU 1632 2325	7.7 2.3 7.6 2.5	27 0537 1227 M 1811	7.3 2.7 7.2
13 0253 0943 SU 1519 2159	8.0 1.9 7.8 2.4	28 0259 1001 M 1533 2221	8.6 1.3 8.4 1.7	13 0353 1043 W 1625 2306	7.4 2.4 7.3 2.7	28 0448 1148 TH 1721	8.2 1.5 8.2	13 0404 1054 F 1630 2316	7.6 2.2 7.5 2.5	28 0515 1211 SA 1746	8.0 1.8 7.9	13 0500 1152 M 1729	7.3 2.6 7.3	28 0107 0700 TU 1346 1938	2.7 6.9 2.9 7.0
14 0332 1023 M 1604 2244	7.6 2.4 7.2 2.8	29 0355 1055 TU 1635 2321	8.1 1.6 8.0 2.0	14 0446 1136 TH 1722	7.1 2.6 7.1	29 0002 0550 F 1249 1824	1.8 8.0 1.7 8.0	14 0453 1144 SA 1722	7.3 2.4 7.3	29 0039 0619 SU 1312 1852	2.1 7.6 2.2 7.6	14 0027 0811 TU 1302 1849	2.7 7.1 2.7 7.2	29 0231 0832 W 1509 2059	2.7 7.0 2.7 7.3
15 0423 1115 TU 1704 2347	7.0 2.7 6.8 3.1	30 0503 1202 W 1746	7.8 1.8 7.8	15 0005 0551 F 1238 1828	2.8 7.0 2.6 7.1	30 0118 0658 SA 1353 1932	2.0 7.8 1.8 7.9	15 0011 0553 SU 1243 1827	2.6 7.2 2.5 7.3	30 0147 0734 M 1422 2007	2.3 7.4 2.4 7.5	15 0148 0742 W 1428 2014	2.6 7.2 2.5 7.5	30 0347 0939 TH 1617 2157	2.4 7.5 2.3 7.8
		31 0034 0619 TH 1317 1859	2.1 7.7 1.9 7.8					31 0900 0850 TU 1532 2116	2.3 7.4 2.3 7.7			31 0446 1027 F 1709 2241	1.9 8.0 1.9 8.2		

ENGLAND, SOUTH AND EAST COASTS

No.	PLACE	Lat. N.	Long. W.	TIME DIFFERENCES				HEIGHT DIFFERENCES (IN METRES)				M.L. Z ₀ m.
				High	Water	Low	Water	MHWS	MHWN	MLWN	MLWS	
				Zone U.T.(G.M.T.)								
68	CHICHESTER HARBOUR ENTRANCE	(see page 38)		0500 and 1700	1000 and 2200	0000 and 1200	0600 and 1800	4.9	4.0	1.9	0.9	2.86
<i>Chichester Harbour</i>												
68a	Northney	50 50	0 58	+0020	+0010	0000	+0005	0.0	-0.2	-0.2	-0.4	2.74
68b	Bosham	50 50	0 52	+0010	+0005	0	0	0.0	-0.1	0	0	0
68c	Itchenor	50 48	0 52	+0005	0000	-0010	+0005	-0.1	-0.2	-0.2	-0.3	2.91
68d	Dell Quay	50 49	0 49	+0015	+0010	0	0	0.0	-0.1	0	0	0
65	PORTSMOUTH	(see page 34)		0500 and 1700	1000 and 2200	0000 and 1200	0600 and 1800	4.7	3.8	1.9	0.8	
69	Selsey Bill	50 43	0 47	-0005	-0005	+0035	+0035	+0.6	+0.6	0.0	0.0	2.94
70	Nab Tower	50 40	0 57	+0015	0000	+0015	+0015	-0.2	0.0	+0.2	0.0	2.59
81	SHOREHAM	(see page 42)		0500 and 1700	1000 and 2200	0000 and 1200	0600 and 1800	6.3	4.8	1.9	0.6	
72	Pagham	50 46	0 43	+0015	0000	-0015	-0025	-0.7	-0.5	-0.1	-0.1	0
73	Bognor Regis	50 47	0 40	+0010	-0005	-0005	-0020	-0.6	-0.5	-0.2	-0.1	3.14
<i>River Arun</i>												
74	Littlehampton (Entrance)	50 48	0 32	+0010	0000	-0005	-0010	-0.4	-0.4	-0.2	-0.2	0
74a	Littlehampton (Norfolk Wharf)	50 48	0 33	+0015	+0005	0000	+0045	-0.7	-0.7	-0.3	+0.2	2.83
74b	Arundel	50 51	0 33	0	+0120	0	0	-3.1	-2.8	0	0	0
75	Worthing	50 48	0 22	+0010	0000	-0005	-0010	-0.1	-0.2	0.0	0.0	0
81	SHOREHAM	50 50	0 15	STANDARD PORT				See Table V				3.38
82	Brighton	50 49	0 08	-0010	-0005	-0005	-0005	+0.3	+0.1	0.0	-0.1	3.49
		N.	E.									
83	Newhaven	50 47	0 04	-0015	-0010	0000	0000	+0.4	+0.2	0.0	-0.2	3.61
84	Eastbourne	50 46	0 17	-0010	-0005	+0015	+0020	+1.1	+0.6	+0.2	+0.1	3.77
89	DOVER	(see page 46)		0000 and 1200	0600 and 1800	0100 and 1300	0700 and 1900	6.8	5.3	2.1	0.8	
85	Hastings	50 51	0 35	0000	-0010	-0030	-0030	+0.8	+0.5	+0.1	-0.1	3.85
86	Rye (Approaches)	50 55	0 47	+0005	-0010	0	0	+1.0	+0.7	0	0	0
86a	Rye (Harbour)	50 56	0 46	+0005	-0010	0	0	-1.4	-1.7	0	0	1.97
87	Dungeness	50 54	0 58	-0010	-0015	-0020	-0010	+1.0	+0.6	+0.4	+0.1	4.13
88	Folkestone	51 05	1 12	-0020	-0005	-0010	-0010	+0.4	+0.4	0.0	-0.1	3.92
89	DOVER	51 07	1 19	STANDARD PORT				See Table V				3.75
98	Deal	51 13	1 25	+0010	+0020	+0010	+0005	-0.6	-0.3	0.0	0.0	3.54
99	Richborough	51 18	1 21	+0015	+0015	+0030	+0030	-3.4	-2.6	-1.7	-0.7	1.42
102	Ramsgate	51 20	1 25	+0030	+0030	+0017	+0007	-1.6	-1.3	-0.7	-0.2	2.73
103	MARGATE	(see page 50)		0100 and 1300	0700 and 1900	0100 and 1300	0700 and 1900	4.8	3.9	1.4	0.5	
102a	Broadstairs	51 21	1 27	-0020	-0008	+0007	+0010	-0.2	-0.2	-0.1	-0.1	0
103	MARGATE	51 23	1 23	STANDARD PORT				See Table V				2.61
104	Heme Bay	51 23	1 07	+0034	+0022	+0015	+0032	+0.4	+0.4	0.0	0.0	2.74
105	Whitstable Approaches	51 22	1 02	+0042	+0029	+0025	+0050	+0.6	+0.6	+0.1	0.0	0
108	SHEERNESS	(see page 54)		0200 and 1400	0800 and 2000	0200 and 1400	0700 and 1900	5.8	4.7	1.5	0.6	
<i>River Swale</i>												
106	Grovehurst Jetty	51 22	0 46	-0007	0000	0000	+0016	0.0	0.0	0.0	-0.1	0
107	Faversham	51 19	0 54	0	0	0	0	-0.2	-0.2	0	0	0
<i>River Medway</i>												
108	SHEERNESS	51 27	0 45	STANDARD PORT				See Table V				3.00
108a	Bee Ness	51 25	0 39	+0002	+0002	0000	+0005	+0.2	+0.1	0.0	0.0	2.98
108b	Bartlett Creek	51 23	0 38	+0016	+0008	0	0	+0.1	0.0	0	0	0
108c	Darnett Ness	51 24	0 36	+0004	+0004	0000	+0010	+0.2	+0.1	0.0	-0.1	0
109	Chatham (Lock Approaches)	51 24	0 33	+0010	+0012	+0012	+0018	+0.3	+0.1	-0.1	-0.2	3.00
109a	Upnor	51 25	0 32	+0015	+0015	+0015	+0025	+0.2	+0.2	-0.1	-0.1	0
109b	Rochester (Strood Pier)	51 24	0 30	+0018	+0018	+0018	+0028	+0.2	+0.2	-0.2	-0.3	2.91
109c	Wooldhams	51 21	0 27	+0030	+0025	+0035	+0120	-0.2	-0.3	-1.0	-0.3	2.69
109d	New Hythe	51 19	0 28	+0035	+0035	+0220	+0240	-1.6	-1.7	-1.2	-0.3	2.03
109e	Allington Lock	51 17	0 30	+0050	+0035	0	0	-2.1	-2.2	-1.3	-0.4	0.96

0 No data.

* See notes on page 344.

c For intermediate heights, use harmonic constants (see Part III).

i For intermediate heights, see pages xxii to xxiv.

IRELAND, WEST COAST

No.	PLACE	Lat. N.	Long. W.	TIME DIFFERENCES				HEIGHT DIFFERENCES (IN METRES)				M.L. Z ₀ m.
				High Water Zone U.T.(G.M.T.)	Low Water	MHWS	MHWN	MLWN	MLWS			
709	GALWAY	(see page 182)		0600 and 1800	1100 and 2300	0000 and 1200	0700 and 1900	5.1	3.9	2.0	0.8	
696	Clare Island	53 48	9 57	+0019	+0013	+0029	+0023	-1.0	-0.7	-0.4	-0.1	⊙
697	<i>Westport Bay</i> Inishraher	53 48	9 38	+0030	+0012	+0058	+0026	-0.6	-0.5	-0.3	-0.1	⊙
701	Killary Harbour	53 38	9 53	+0021	+0015	+0035	+0029	-1.0	-0.8	-0.4	-0.1	⊙
702	<i>Inishbofin</i> Bofin Harbour	53 37	10 13	+0013	+0009	+0021	+0017	-1.0	-0.8	-0.4	-0.1	1.9 x
703	Clifden Bay	53 29	10 04	+0005	+0005	+0016	+0016	-0.7	-0.5	⊙	⊙	⊙
704	Slyne Head	53 24	10 14	+0002	+0002	+0010	+0010	-0.7	-0.5	⊙	⊙	⊙
705	Roundstone Bay	53 23	9 55	+0003	+0003	+0008	+0008	-0.7	-0.5	-0.3	-0.1	⊙
706	Kilkieran Cove	53 20	9 44	+0005	+0005	+0016	+0016	-0.3	-0.2	-0.1	0.0	⊙
707	<i>Aran Islands</i> Killeary Bay	53 07	9 39	-0008	-0008	+0003	+0003	-0.4	-0.3	-0.2	-0.1	⊙
709	GALWAY	53 16	9 03	STANDARD PORT				See Table V				2.86
711	Liscannor	52 56	9 23	-0003	-0007	+0008	+0002	-0.4	-0.3	⊙	⊙	⊙
712	Seafield Point	52 48	9 30	-0006	-0014	+0004	-0004	-0.5	-0.4	⊙	⊙	⊙
715	TARBERT ISLAND	(see page 186)		0500 and 1700	1000 and 2200	0000 and 1200	0600 and 1800	5.0	3.8	1.7	0.5	
713	<i>River Shannon</i> Kilbaha Bay	52 34	9 51	-0045	-0025	-0100	+0005	-0.7	-0.5	-0.2	0.0	⊙
713a	Carrigaholt	52 36	9 42	-0030	-0040	-0030	-0030	-0.1	-0.1	+0.2	+0.2	2.73
714	Kilrush	52 38	9 30	-0010	-0010	-0005	-0005	0.0	-0.1	0.0	0.0	2.64
715	TARBERT ISLAND	52 35	9 22	STANDARD PORT				See Table V				2.77
716	Foynes Island	52 37	9 07	+0030	+0025	+0020	+0020	+0.2	+0.2	+0.1	-0.2	⊙
717	Melton Point	52 40	8 50	+0055	+0045	+0025	+0140	+0.9	+0.7	+0.2	-0.1	⊙
718	Limerick Dock	52 40	8 38	+0100	+0115	+0050	+0200	+1.1	+0.8	-0.5	-0.1	⊙ *
719	<i>River Fergus</i> Coney Island	52 43	8 59	+0050	+0045	+0015	+0130	+0.2	+0.1	⊙	⊙	⊙
750	COBH	(see page 190)		0500 and 1700	1100 and 2300	0500 and 1700	1100 and 2300	4.1	3.2	1.3	0.4	
721	<i>Tralee Bay</i> Fenit Pier	52 16	9 52	-0057	-0017	-0029	-0109	+0.5	+0.2	+0.3	+0.1	⊙
722	Smerwick Harbour	52 12	10 24	-0107	-0027	-0041	-0121	-0.3	-0.4	⊙	⊙	⊙
723	Dingle Harbour	52 07	10 15	-0111	-0041	-0049	-0119	-0.1	0.0	+0.3	+0.4	⊙
724	<i>Castlemaine Harbour</i> Cromane Point	52 09	9 54	-0028	-0006	-0017	-0037	+0.4	+0.2	+0.4	+0.2	⊙
725	<i>Valentia Harbour</i> Knights Town	51 56	10 18	-0118	-0038	-0056	-0136	-0.6	-0.4	-0.1	0.0	2.0 x
726	<i>Ballinskelligs Bay</i> Castle	51 49	10 16	-0119	-0039	-0054	-0134	-0.5	-0.5	-0.1	0.0	⊙
727	<i>Kenmare River</i> West Cove	51 46	10 03	-0113	-0033	-0049	-0129	-0.6	-0.5	-0.1	0.0	⊙
728	Dunkerron Harbour	51 52	9 38	-0117	-0027	-0050	-0140	-0.2	-0.3	+0.1	0.0	⊙
731	<i>Coulagh Bay</i> Ballycrovane Harbour	51 43	9 57	-0116	-0036	-0053	-0133	-0.6	-0.5	-0.1	0.0	⊙
732	Black Ball Harbour	51 36	10 02	-0115	-0035	-0047	-0127	-0.7	-0.6	-0.1	+0.1	⊙
733	<i>Bantry Bay</i> Castletown Bearhaven	51 39	9 54	-0048	-0012	-0025	-0101	-0.9	-0.6	-0.1	0.0	1.82
734	Bantry	51 41	9 28	-0045	-0025	-0040	-0105	-0.9	-0.8	-0.2	0.0	1.78
736	<i>Dunmanus Bay</i> Dunbeacon Harbour	51 37	9 33	-0057	-0025	-0032	-0104	-0.8	-0.7	-0.3	-0.1	⊙
737	Dunmanus Harbour	51 32	9 40	-0107	-0031	-0044	-0120	-0.7	-0.6	-0.2	0.0	⊙

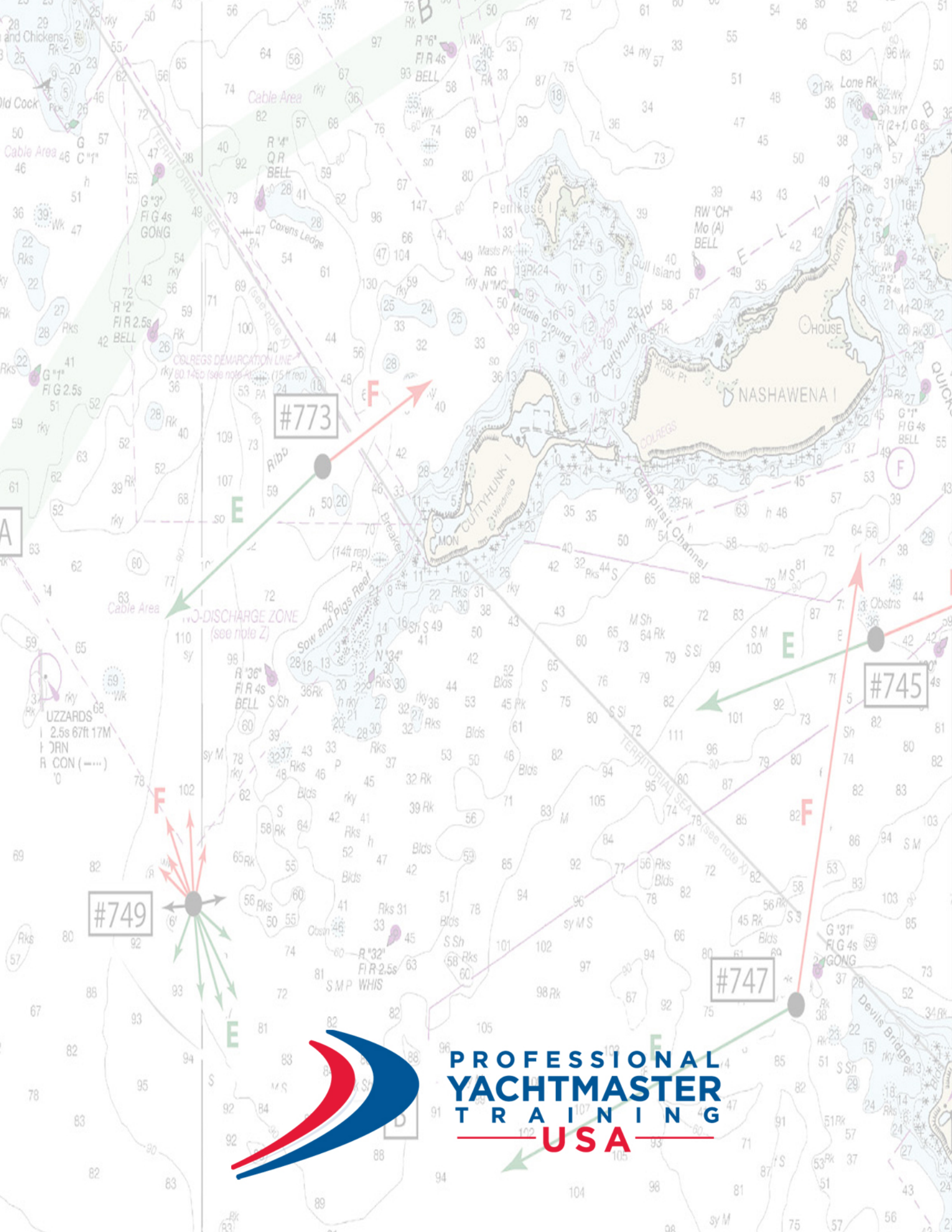
⊙ No data.
* See notes on page 344.

BELGIUM; FRANCE, NORTH COAST

No.	PLACE	Lat. N.	Long. E.	TIME DIFFERENCES				HEIGHT DIFFERENCES (IN METRES)				M.L. Z ₀ m.
				High Water Zone -0100	Low Water	MHWS	MHWN	MLWN	MLWS			
1562	ZEEBRUGGE	(see page 210)		0300 and 1500	0900 and 2100	0300 and 1500	0900 and 2100	4.8	3.9	1.1	0.4	
1540	Cadzand (Wielingen Sluis)	51 23	3 23	+0005	-0010	0000	+0010	-0.2	-0.2	-0.2	-0.1	2.30
1562	ZEEBRUGGE	51 21	3 12	STANDARD PORT				See Table V				2.46
1564	Oostende	B 51 14	2 56	-0019	-0019	-0008	-0008	+0.3	+0.3	+0.1	+0.1	2.66
1565	Nieuwpoort	51 09	2 43	-0031	-0031	-0010	-0010	+0.5	+0.4	+0.1	+0.1	2.78
1568	DUNKERQUE	(see page 214)		0200 and 1400	0800 and 2000	0200 and 1400	0800 and 2100	6.0	5.0	1.5	0.6	3.24
France												
1569	Gravelines	51 01	2 06	-0005	-0015	-0005	+0005	+0.3	+0.1	-0.1	-0.1	3.28
1569a	Sandettie Bank	51 09	1 47	-0015	-0025	-0020	-0005	+0.1	-0.1	-0.1	-0.1	3.18
1570	CALAIS	50 58	1 51	STANDARD PORT				See Table V				4.02
1571	Wissant	50 53	1 40	-0035	-0050	-0030	-0010	+2.0	+1.5	+0.8	+0.4	4.44
1572	BOULOGNE-SUR-MER	50 44	1 35	STANDARD PORT				See Table V				4.91
1579	DIEPPE	(see page 226)		0100 and 1300	0800 and 1800	0100 and 1300	0700 and 1900	9.3	7.4	2.5	0.8	
1573	Le Touquet, Etaples	50 31	1 35	+0007	+0017	+0032	+0032	+0.2	+0.3	+0.4	+0.4	5.35
1574	Berck	50 24	1 34	+0007	+0017	+0028	+0028	+0.5	+0.5	+0.4	+0.4	5.47
<i>La Somme</i>												
1575	Le Hourdel	50 13	1 34	+0020	+0020	o	o	+0.8	+0.6	o	o	o
1576	St. Valery	50 11	1 37	+0035	+0035	o	o	+0.9	+0.7	o	o	o
1577	Cayeux	50 11	1 29	0000	+0005	+0015	+0010	+0.5	+0.8	+0.4	+0.4	5.49
1578	Le Treport	50 04	1 22	+0005	0000	+0007	+0007	+0.1	+0.1	0.0	+0.1	5.05
1579	DIEPPE	49 58	1 05	STANDARD PORT				See Table V				4.94
1580	St. Valery-en-Caux	49 52	0 42	-0005	-0005	-0015	-0020	-0.5	-0.4	-0.1	-0.1	4.72
1581	Fecamp	F 49 46	0 22	-0015	-0010	-0030	-0040	-1.0	-0.6	+0.3	+0.4	4.87
1581a	Etretat	49 42	0 12	-0020	-0020	-0045	-0050	-1.2	-0.8	+0.3	+0.4	4.80
1582	LE HAVRE	(see page 230)		0000 and 1200	0500 and 1700	0000 and 1200	0700 and 1900	7.9	6.8	2.8	1.2	
1581b	Antifer (Le Havre)	49 39	0 09	+0025	+0015	+0005	-0007	+0.1	0.0	0.0	0.0	4.87
1582	LE HAVRE	49 29	0 07	STANDARD PORT				See Table V				4.87
<i>La Seine</i>												
1583	Honfleur	49 25	0 14	-0135	-0135	+0015	+0040	+0.1	+0.1	+0.1	+0.3	5.03 *
1584	Tancarville	49 28	0 28	-0105	-0100	+0105	+0140	-0.1	-0.1	0.0	+1.0	o *
1585	Quillebeuf	49 28	0 32	-0045	-0050	+0120	+0200	0.0	0.0	+0.2	+1.4	o *
1586	Vatteville	49 29	0 40	+0005	-0020	+0225	+0250	0.0	-0.1	+0.8	+2.3	o *
1587	Caudebec	49 32	0 44	+0020	-0015	+0230	+0300	-0.3	-0.2	+0.9	+2.4	o *
1587a	Heurteville	49 27	0 49	+0110	+0025	+0310	+0330	-0.5	-0.2	+1.1	+2.7	o *
1588	Duclair	49 29	0 53	+0225	+0150	+0355	+0410	-0.4	-0.3	+1.4	+3.3	o *
1589	Rouen	49 27	1 06	+0440	+0415	+0525	+0525	-0.2	-0.1	+1.6	+3.6	o
1590	Trouville	49 22	0 05	-0100	-0010	0000	+0005	+0.4	+0.3	+0.3	+0.1	5.14 *
N. W.												
1591	Dives	49 18	0 05	-0100	-0010	0000	0000	+0.3	+0.2	+0.2	+0.1	5.08 *
1592	Ouistreham	49 17	0 15	-0045	-0010	-0005	0000	-0.3	-0.3	-0.2	-0.3	4.63 *
1593	Courseulles-sur-Mer	49 20	0 27	-0045	-0015	-0020	-0025	-0.5	-0.5	-0.1	-0.1	4.56
1594	Arromanches	49 21	0 37	-0055	-0025	-0027	-0035	-0.6	-0.6	-0.2	-0.2	4.43
1595	Port-en-Bessin	49 21	0 45	-0055	-0030	-0030	-0035	-0.7	-0.7	-0.2	-0.1	4.40
1595a	Alpha-Bale de Seine	49 49	0 20	+0030	+0020	-0005	-0020	-1.0	-0.9	-0.4	-0.2	4.15

SEASONAL CHANGES IN MEAN LEVEL

No.	Jan. 1	Feb. 1	Mar. 1	Apr. 1	May 1	June 1	July 1	Aug. 1	Sep. 1	Oct. 1	Nov. 1	Dec. 1	Jan. 1
1501 - 1522	0.0	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	+0.1	+0.1	+0.1	0.0
1528 - 1571	0.0	0.0	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	+0.1	+0.1	+0.1	0.0
1572 - 1581a	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	+0.1	+0.1	0.0	0.0	0.0
1581b - 1595a	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	+0.1	+0.1	+0.1	0.0



#773

#745

#749

#747



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