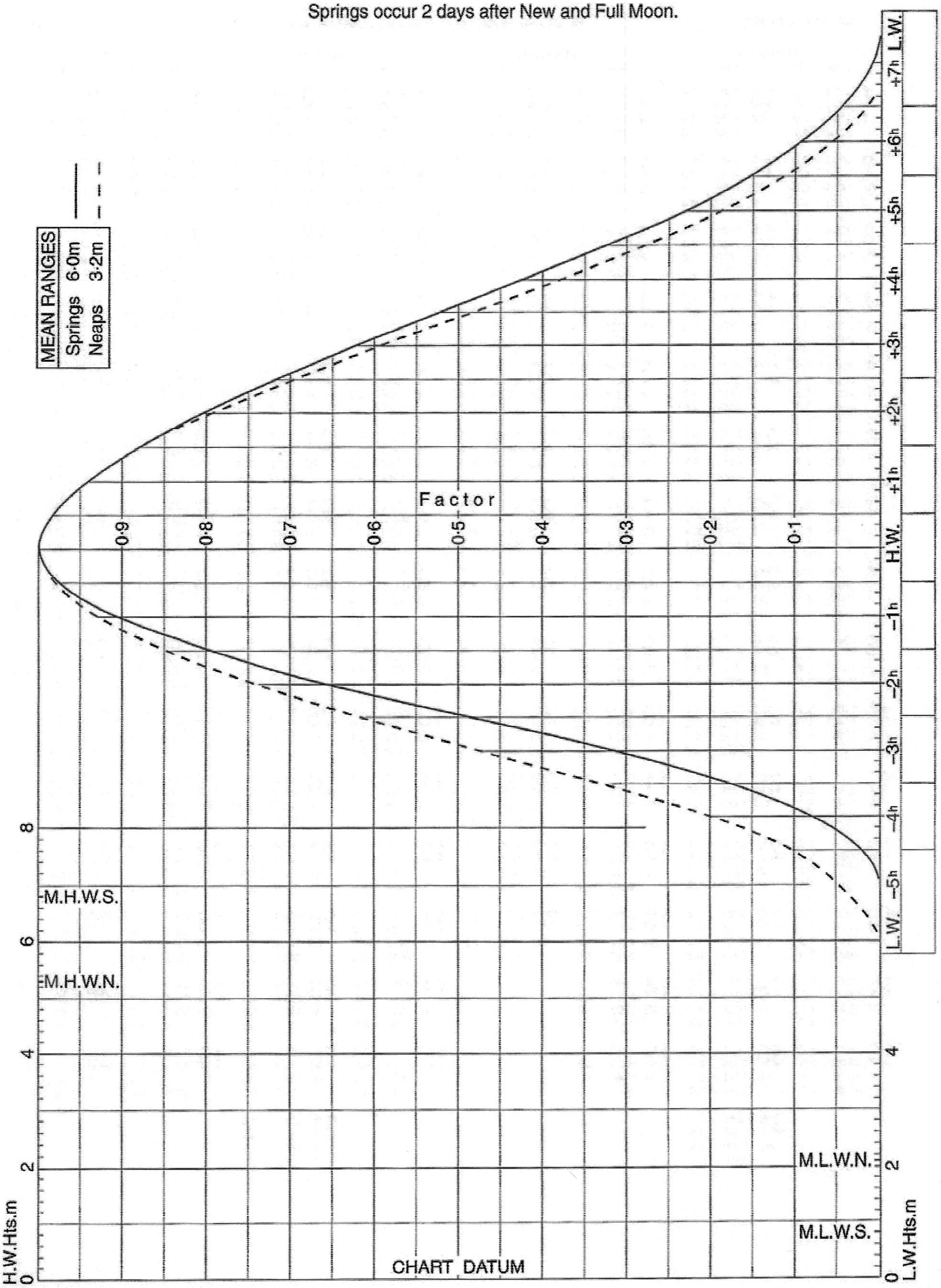
ADMIRALTY TIDE TABLES
ANNUAIRE DES MAREES

Les données de marée à Dover

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 UT(GMT) — TIMES AND HEIGHTS OF HIGH AND LOW WATERS — YEAR 1999

JANUARY

		Time	m			Time	m
1		0504	1.1	16		0507	1.4
		1008	6.7			1008	6.1
	F	1741	0.9		SA	1726	1.3
		2236	6.7			2232	6.3
2		0603	0.9	17		0550	1.2
		1057	6.8			1046	6.3
	SA	1835	0.8		SU	1808	1.1
	O	2322	6.6		●	2308	6.4
3		0654	0.8	18		0631	1.1
		1143	6.8			1123	6.4
	SU	1923	0.8		M	1850	1.0
						2344	6.6
4		0005	6.8	19		0712	1.0
		0742	0.8			1200	6.5
	M	1228	6.7		TU	1929	1.0
		2006	0.9				
5		0049	6.8	20		0020	6.6
		0826	0.8			0752	1.0
	TU	1311	6.6		W	1237	6.5
		2046	1.0			2008	1.0
6		0131	6.7	21		0057	6.7
		0907	1.0			0832	0.9
	W	1354	6.4		TH	1315	6.5
		2122	1.2			2045	1.0
7		0214	6.5	22		0137	6.7
		0946	1.2			0911	1.0
	TH	1438	6.1		F	1356	6.4
		2157	1.5			2124	1.1
8		0258	6.3	23		0221	6.6
		1022	1.4			0952	1.1
	F	1526	5.8		SA	1443	6.3
		2230	1.7			2206	1.2
9		0346	6.0	24		0310	6.4
		1101	1.7			1037	1.2
	SA	1618	5.6		SU	1537	6.0
		2309	2.0			2255	1.5
10		0439	5.7	25		0409	6.1
		1147	1.9			1132	1.5
	SU	1719	5.3		M	1646	5.7
						2356	1.7
11		0002	2.2	26		0521	5.9
		0541	5.5			1239	1.7
	M	1247	2.1		TU	1813	5.6
		1825	5.2				
12		0114	2.3	27		0110	1.9
		0650	5.4			0645	5.8
	TU	1352	2.1		W	1353	1.7
		1931	5.3			1935	5.6
13		0226	2.2	28		0227	1.8
		0754	5.5			0804	5.9
	W	1455	1.9		TH	1508	1.6
		2027	5.5			2044	5.9
14		0328	2.0	29		0342	1.5
		0846	5.7			0910	6.1
	TH	1551	1.7		F	1627	1.3
		2114	5.8			2142	6.2
15		0421	1.7	30		0455	1.2
		0929	5.9			1006	6.4
	F	1641	1.4		SA	1735	1.1
		2154	6.1			2232	6.5
				31		0556	0.9
						1055	6.5
					SU	1828	0.9
					O	2315	6.7

FEBRUARY

		Time	m			Time	m
1		0647	0.8	16		0614	0.9
		1138	6.6			1104	6.5
	M	1914	0.8		TU	1834	0.9
		2355	6.8		●	2324	6.7
2		0732	0.7	17		0658	0.8
		1217	6.6			1142	6.6
	TU	1953	0.8		W	1917	0.8
3		0034	6.8	18		0002	6.8
		0811	0.7			0741	0.7
	W	1254	6.6		TH	1220	6.7
		2027	0.9			1956	0.7
4		0112	6.8	19		0041	6.9
		0846	0.8			0821	0.6
	TH	1331	6.4		F	1259	6.7
		2057	1.1			2034	0.7
5		0149	6.6	20		0121	6.9
		0917	1.0			0859	0.6
	F	1407	6.2		SA	1340	6.7
		2122	1.2			2111	0.8
6		0224	6.4	21		0203	6.8
		0944	1.2			0937	0.8
	SA	1444	6.0		SU	1424	6.5
		2146	1.5			2151	1.0
7		0259	6.1	22		0250	6.6
		1011	1.4			1019	1.0
	SU	1523	5.7		M	1516	6.2
		2218	1.7			2236	1.3
8		0336	5.8	23		0345	6.2
		1046	1.7			1109	1.4
	M	1613	5.4		TU	1621	5.8
		2259	2.0			2332	1.6
9		0433	5.4	24		0455	5.8
		1135	2.0			1213	1.7
	TU	1725	5.1		W	1745	5.5
		2358	2.3				
10		0550	5.2	25		0045	1.9
		1249	2.2			0624	5.5
	W	1841	5.1		TH	1331	1.9
						1916	5.4
11		0127	2.4	26		0207	1.9
		0706	5.2			0755	5.6
	TH	1410	2.1		F	1454	1.8
		1947	5.3			2034	5.7
12		0246	2.1	27		0332	1.7
		0809	5.4			0909	5.9
	F	1516	1.9		SA	1625	1.5
		2042	5.6			2135	6.0
13		0348	1.8	28		0451	1.3
		0901	5.7			1005	6.2
	SA	1612	1.6		SU	1729	1.2
		2127	5.9			2223	6.4
14		0440	1.4				
		0944	6.0				
	SU	1703	1.3				
		2208	6.2				
15		0528	1.2				
		1025	6.3				
	M	1750	1.1				
		2246	6.5				

MARCH

		Time	m			Time	m
1		0549	0.9	16		0603	1.1
		1049	6.4			1002	6.3
	M	1818	0.9		TU	1726	1.0
		2303	6.6			2222	6.6
2		0637	0.7	17		0552	0.8
		1127	6.5			1042	6.6
	TU	1859	0.8		W	1814	0.8
	O	2339	6.7		●	2301	6.8
3		0717	0.7	18		0640	0.6
		1200	6.6			1121	6.8
	W	1934	0.8		TH	1858	0.7
						2341	7.0
4		0015	6.8	19		0724	0.5
		0750	0.7			1200	6.9
	TH	1234	6.5		F	1939	0.5
		2002	0.9				
5		0050	6.7	20		0021	7.1
		0819	0.8			0804	0.4
	F	1306	6.5		SA	1240	6.9
		2026	1.0			2017	0.5
6		0122	6.6	21		0102	7.1
		0843	0.9			0843	0.4
	SA	1337	6.3		SU	1322	6.8
		2046	1.1			2055	0.6
7		0150	6.4	22		0145	6.9
		0905	1.1			0921	0.6
	SU	1403	6.2		M	1408	6.6
		2110	1.3			2136	0.8
8		0214	6.2	23		0233	6.6
		0930	1.3			1002	1.0
	M	1429	5.9		TU	1500	6.3
		2141	1.5			2221	1.2
9		0242	5.9	24		0329	6.2
		1004	1.6			1051	1.4
	TU	1501	5.6		W	1605	5.8
		2219	1.8			2316	1.6
10		0323	5.6	25		0440	5.7
		1046	1.9			1155	1.8
	W	1552	5.3		TH	1723	5.5
		2308	2.1				
11		0435	5.2	26		0029	1.9
		1145	2.2			0607	5.4
	TH	1748	5.0		F	1316	2.0
						1853	5.4
12		0025	2.4	27		0154	2.0
		0622	5.0			0747	5.4
	F	1325	2.3		SA	1444	1.9
		1907	5.1			2019	5.6
13		0205	2.3	28		0324	1.7
		0735	5.3			0902	5.7
	SA	1443	2.0		SU	1613	1.6
		2009	5.4			2120	6.0
14		0314	1.9	29		0440	1.3
		0833	5.6			0954	6.1
	SU	1543	1.7		M	1712	1.2
		2058	5.8			2205	6.3
15		0411	1.4	30		0533	1.0
		0920	6.0			1033	6.3
	M	1637	1.3		TU	1757	1.0
		2141	6.2			2243	6.5
				31		0617	0.8
						1107	6.4
					W	1836	0.9
					O	2319	6.7

APRIL

		Time	m			Time	m
1		0653	0.7	16		0615	0.5
		1138	6.5			1057	6.9
	TH	1907	0.9		F	1834	0.6
		2353	6.7		●	2318	7.1
2		0723	0.8	17		0703	0.4
		1210	6.5			1138	7.0
	F	1933	0.9		SA	1918	0.5
3		0026	6.7	18		0000	7.1
		0747	0.9			0746	0.4
	SA	1241	6.5		SU	1221	7.0
		1953	1.0			1959	0.5
4		0055	6.5	19		0044	7.1
		0808	0.9			0826	0.4
	SU	1308	6.4		M	1306	6.9
		2015	1.1			2041	0.5
5		0118	6.4	20		0130	6.9
		0831	1.1			0907	0.7
	M	1329	6.3		TU	1355	6.7
		2041	1.2			2123	0.8
6		0138	6.2	21		0220	6.6
		0859	1.2			0950	1.0
	TU	1351	6.1		W	1449	6.3
		2112	1.4			2211	1.1
7		0205	6.0	22		0319	6.2
		0932	1.5			1040	1.4
	W	1423	5.9		TH	1551	6.0
		2149	1.7			2307	1.6
8		0244	5.7	23		0427	5.7
		1012	1.8			1144	1.8
	TH	1508	5.5		F	1701	5.6
		2234	2.0				
9		0339	5.3	24		0018	1.8
		1103	2.1			0546	5.4
	F	1625	5.2		SA	1300	2.0
		2337	2.3			1821	5.5
10		0540	5.1	25		0138	1.9
		1228	2.3			0726	5.4
	SA	1824	5.1		SU	1422	2.0
						1950	5.6
11		0121	2.2	26		0259	1.7
		0701	5.2			0839	5.7
	SU	1406	2.1		M	1539	1.7
		1932	5.4			2052	5.9
12		0238	1.9	27		0410	1.3
		0802	5.6			0928	5.9
	M	1510	1.7		TU	1639	1.4
		2026	5.8			2138	6.2
13		0337	1.4	28		0504	1.1
		0852	6.0			1007	6.2
	TU	1605	1.3		W	1725	1.2
		2112	6.3			2217	6.4
14		0431	1.1	29		0547	1.0
		0935	6.4			1040	6.3
	W	1657	1.0		TH	1803	1.1
		2154	6.6			2253	6.5
15		0524	0.8	30		0622	0.9
		1017	6.7			1112	6.4
	TH	1747	0.8		F	1835	1.0
		2236	6.9		O	2328	6.5

ENGLAND – DOVER

LAT 51°07'N LONG 1°19'E

TIME ZONE UT(GMT) | TIMES AND HEIGHTS OF HIGH AND LOW WATERS | YEAR 1999

MAY

Day	Time	m	Day	Time	m
1 SA	0650 1144 1900	1.0 6.5 1.0	16 SU	0641 1119 1858 2342	0.5 6.9 0.5 7.1
2 SU	0000 0713 1215 1923	6.5 1.0 6.4 1.1	17 M	0729 1205 1945	0.4 7.0 0.5
3 M	0029 0737 1243 1948	6.4 1.0 6.4 1.1	18 TU	0029 0813 1254 2030	7.0 0.5 6.9 0.6
4 TU	0051 0804 1305 2018	6.3 1.1 6.3 1.2	19 W	0118 0858 1344 2116	6.8 0.7 6.7 0.8
5 W	0112 0835 1328 2051	6.2 1.3 6.2 1.4	20 TH	0211 0943 1437 2205	6.5 1.0 6.4 1.1
6 TH	0141 0909 1401 2128	6.1 1.5 6.0 1.6	21 F	0306 1033 1534 2300	6.2 1.4 6.1 1.4
7 F	0220 0948 1446 2211	5.8 1.7 5.8 1.8	22 SA	0409 1130 1635	5.8 1.7 5.8
8 SA	0312 1036 1550 2308	5.5 2.0 5.5 2.0	23 SU	0002 0517 1236 1742	1.7 5.5 1.9 5.6
9 SU	0443 1142 1729	5.3 2.2 5.3	24 M	0109 0641 1344 1902	1.8 5.4 2.0 5.6
10 M	0034 0620 1320 1848	2.1 5.3 2.1 5.5	25 TU	0218 0757 1451 2011	1.7 5.5 1.8 5.8
11 TU	0157 0726 1431 1948	1.8 5.6 1.8 5.9	26 W	0323 0850 1552 2103	1.5 5.7 1.6 6.0
12 W	0300 0820 1529 2039	1.4 6.0 1.4 6.3	27 TH	0419 0932 1643 2146	1.4 5.9 1.4 6.2
13 TH	0356 0907 1623 2126	1.1 6.4 1.1 6.6	28 F	0505 1009 1725 2225	1.2 6.1 1.3 6.3
14 F	0453 0951 1717 2211	0.8 6.6 0.8 6.9	29 SA	0542 1043 1800 2300	1.2 6.3 1.2 6.3
15 SA	0548 1035 1809 ● 2256	0.6 6.8 0.6 7.0	30 SU	0614 1117 1829 O 2333	1.1 6.3 1.2 6.3
			31 M	0643 1150 1858	1.1 6.4 1.1

JUNE

Day	Time	m	Day	Time	m
1 TU	0003 0712 1221 1928	6.3 1.1 6.3 1.1	16 W	0020 0804 1244 2022	6.8 0.6 6.8 0.6
2 W	0031 0744 1247 2002	6.2 1.2 6.3 1.2	17 TH	0110 0851 1332 2110	6.7 0.8 6.7 0.8
3 TH	0057 0818 1315 2037	6.2 1.3 6.3 1.3	18 F	0159 0935 1421 2157	6.5 1.0 6.6 1.0
4 F	0127 0853 1349 2114	6.1 1.4 6.2 1.4	19 SA	0251 1020 1512 2244	6.2 1.3 6.3 1.2
5 SA	0206 0932 1433 2157	6.0 1.6 6.0 1.6	20 SU	0344 1106 1605 2334	5.9 1.6 6.0 1.5
6 SU	0256 1017 1529 2249	5.8 1.7 5.8 1.7	21 M	0442 1158 1702	5.6 1.8 5.8
7 M	0401 1114 1639 2356	5.6 1.9 5.7 1.8	22 TU	0029 0545 1256 1807	1.7 5.4 2.0 5.6
8 TU	0527 1229 1757	5.5 1.9 5.7	23 W	0128 0656 1357 1918	1.8 5.4 2.0 5.6
9 W	0113 0644 1347 1907	1.7 5.7 1.8 5.9	24 TH	0227 0800 1459 2021	1.8 5.5 1.9 5.7
10 TH	0221 0747 1451 2007	1.4 5.9 1.5 6.2	25 F	0325 0852 1555 2112	1.7 5.7 1.7 5.9
11 F	0322 0840 1551 2100	1.2 6.2 1.2 6.5	26 SA	0417 0935 1644 2154	1.5 5.9 1.5 6.0
12 SA	0423 0930 1651 2151	0.9 6.5 0.9 6.7	27 SU	0501 1014 1725 2232	1.4 6.1 1.4 6.1
13 SU	0525 1019 1748 ● 2241	0.7 6.7 0.8 6.9	28 M	0540 1051 1801 O 2307	1.3 6.2 1.2 6.2
14 M	0623 1107 1843 2330	0.6 6.8 0.6 6.9	29 TU	0617 1126 1836 2340	1.2 6.3 1.2 6.2
15 TU	0716 1156 1934	0.6 6.9 0.6	30 W	0653 1159 1913	1.2 6.3 1.1

JULY

Day	Time	m	Day	Time	m
1 TH	0012 0729 1231 1949	6.2 1.2 6.4 1.1	16 F	0059 0839 1318 2058	6.6 0.8 6.8 0.7
2 F	0044 0806 1303 2027	6.2 1.2 6.4 1.2	17 SA	0143 0919 1401 2139	6.5 1.0 6.7 0.8
3 SA	0117 0843 1339 2105	6.2 1.3 6.4 1.2	18 SU	0227 0956 1445 2217	6.3 1.2 6.5 1.1
4 SU	0154 0921 1419 2146	6.2 1.3 6.3 1.3	19 M	0312 1032 1531 2256	6.0 1.4 6.2 1.4
5 M	0238 1002 1508 2231	6.1 1.5 6.2 1.4	20 TU	0401 1109 1620 2338	5.7 1.7 5.9 1.7
6 TU	0332 1050 1605 2326	5.9 1.6 6.0 1.5	21 W	0457 1154 1717	5.5 2.0 5.6
7 W	0438 1151 1713	5.7 1.7 5.9	22 TH	0030 0559 1256 1822	1.9 5.3 2.2 5.4
8 TH	0033 0558 1305 1828	1.6 5.7 1.8 5.9	23 F	0132 0707 1405 1931	2.0 5.3 2.2 5.4
9 F	0145 0716 1417 1940	1.5 5.8 1.6 6.0	24 SA	0236 0810 1510 2034	2.0 5.5 2.0 5.6
10 SA	0254 0821 1525 2044	1.4 6.0 1.4 6.3	25 SU	0334 0903 1607 2123	1.8 5.7 1.7 5.8
11 SU	0401 0919 1631 2142	1.2 6.3 1.1 6.5	26 M	0426 0947 1654 2204	1.6 6.0 1.5 6.0
12 M	0509 1012 1734 2236	1.0 6.5 0.9 6.7	27 TU	0512 1025 1737 2241	1.4 6.2 1.3 6.2
13 TU	0612 1102 1833 ● 2327	0.8 6.7 0.7 6.7	28 W	0554 1101 1817 O 2317	1.2 6.3 1.1 6.3
14 W	0707 1149 1926	0.7 6.8 0.6	29 TH	0635 1137 1857 2352	1.1 6.4 1.1 6.3
15 TH	0014 0755 1234 2014	6.7 0.7 6.8 0.6	30 F	0715 1211 1937	1.1 6.5 1.0
			31 SA	0026 0753 1246 2016	6.4 1.1 6.6 1.0

AUGUST

Day	Time	m	Day	Time	m
1 SU	0101 0831 1322 2054	6.4 1.1 6.6 1.0	16 M	0158 0922 1415 2141	6.4 1.2 6.5 1.1
2 M	0137 0907 1401 2131	6.4 1.1 6.6 1.0	17 TU	0236 0948 1454 2209	6.1 1.4 6.3 1.4
3 TU	0218 0945 1446 2212	6.3 1.2 6.5 1.2	18 W	0317 1013 1535 2238	5.9 1.7 5.9 1.7
4 W	0307 1029 1537 2259	6.1 1.4 6.3 1.4	19 TH	0406 1048 1626 2320	5.5 2.0 5.6 2.0
5 TH	0406 1122 1641	5.9 1.6 6.0	20 F	0510 1140 1733	5.3 2.3 5.3
6 F	0000 0525 1232 1800	1.6 5.6 1.8 5.8	21 SA	0028 0621 1307 1846	2.3 5.2 2.4 5.2
7 SA	0116 0656 1351 1925	1.8 5.6 1.8 5.8	22 SU	0152 0731 1430 1956	2.3 5.3 2.3 5.4
8 SU	0233 0811 1507 2039	1.7 5.8 1.6 6.0	23 M	0300 0831 1534 2053	2.0 5.6 1.9 5.7
9 M	0350 0915 1621 2142	1.4 6.1 1.3 6.3	24 TU	0357 0918 1626 2137	1.7 5.9 1.6 6.0
10 TU	0504 1009 1728 2236	1.2 6.4 1.0 6.5	25 W	0447 0958 1712 2215	1.4 6.2 1.3 6.2
11 W	0605 1056 1826 ● 2323	0.9 6.7 0.8 6.6	26 TH	0532 1035 1756 O 2252	1.2 6.4 1.1 6.4
12 TH	0657 1138 1916	0.8 6.8 0.6	27 F	0615 1111 1839 2328	1.1 6.6 0.9 6.5
13 F	0004 0741 1219 1959	6.7 0.8 6.9 0.6	28 SA	0657 1147 1920	1.0 6.7 0.8
14 SA	0043 0820 1258 2038	6.6 0.8 6.8 0.7	29 SU	0004 0736 1224 1959	6.6 0.9 6.8 0.8
15 SU	0120 0853 1337 2111	6.5 1.0 6.7 0.8	30 M	0040 0813 1301 2036	6.7 0.9 6.9 0.8
			31 TU	0117 0849 1340 2113	6.6 0.9 6.8 0.9

ENGLAND – DOVER

LAT 51°07'N LONG 1°19'E

TIME ZONE UT(GMT) — TIMES AND HEIGHTS OF HIGH AND LOW WATERS — YEAR 1999

SEPTEMBER

Day	Time	m	Day	Time	m
1 W	0158 0926 1424 2151	6.5 1.0 6.6 1.1	16 TH	0226 0929 1443 2149	6.0 1.6 6.0 1.7
2 TH	0245 1008 1515 2237	6.3 1.3 6.3 1.4	17 F	0302 1004 1524 2227	5.7 1.9 5.6 2.0
3 F	0344 1059 1620 2335	5.9 1.6 5.9 1.8	18 SA	0403 1049 1643 2321	5.3 2.2 5.2 2.3
4 SA	0506 1208 1746	5.6 2.0 5.6	19 SU	0537 1159 1808	5.1 2.5 5.1
5 SU	0054 0641 1333 1918	2.0 5.5 2.0 5.6	20 M	0101 0652 1348 1921	2.5 5.2 2.4 5.2
6 M	0222 0803 1458 2039	2.0 5.7 1.8 5.9	21 TU	0227 0756 1500 2021	2.3 5.5 2.1 5.6
7 TU	0350 0909 1620 2142	1.6 6.0 1.4 6.2	22 W	0328 0846 1555 2107	1.9 5.9 1.6 6.0
8 W	0501 1001 1723 2231	1.3 6.4 1.0 6.5	23 TH	0420 0928 1644 2147	1.5 6.2 1.3 6.3
9 TH ●	0555 1043 1815 2312	1.0 6.7 0.8 6.6	24 F	0506 1005 1730 2225	1.2 6.5 1.0 6.6
10 F	0641 1122 1859 2347	0.9 6.8 0.7 6.7	25 SA O	0551 1043 1815 2302	1.0 6.8 0.8 6.7
11 SA	0720 1158 1937	0.8 6.9 0.7	26 SU	0633 1120 1858 2338	0.9 6.9 0.7 6.8
12 SU	0020 0752 1235 2009	6.7 0.9 6.9 0.8	27 M	0713 1158 1938	0.8 7.0 0.7
13 M	0054 0820 1310 2036	6.6 1.0 6.8 0.9	28 TU	0016 0751 1236 2015	6.9 0.8 7.1 0.7
14 TU	0127 0842 1343 2058	6.4 1.2 6.6 1.2	29 W	0055 0829 1319 2052	6.9 0.8 7.0 0.8
15 W	0158 0902 1413 2120	6.3 1.4 6.3 1.4	30 TH	0139 0908 1405 2132	6.7 1.0 6.7 1.1

OCTOBER

Day	Time	m	Day	Time	m
1 F	0228 0952 1459 2218	6.4 1.3 6.3 1.5	16 SA	0212 0932 1432 2152	5.9 1.8 5.7 2.0
2 SA	0331 1044 1609 2318	6.0 1.7 5.9 1.9	17 SU	0252 1015 1528 2240	5.6 2.2 5.3 2.3
3 SU	0453 1154 1736	5.6 2.0 5.6	18 M	0433 1113 1729 2354	5.2 2.4 5.1 2.6
4 M	0041 0622 1322 1911	2.2 5.5 2.1 5.5	19 TU	0609 1256 1845	5.2 2.5 5.2
5 TU	0215 0749 1454 2034	2.1 5.7 1.8 5.8	20 W	0144 0716 1420 1946	2.4 5.4 2.2 5.6
6 W	0344 0855 1612 2132	1.7 6.0 1.4 6.2	21 TH	0252 0809 1519 2035	2.0 5.8 1.7 6.0
7 TH	0447 0943 1709 2215	1.4 6.4 1.0 6.4	22 F	0346 0854 1611 2117	1.6 6.3 1.3 6.4
8 F	0535 1023 1756 2251	1.1 6.7 0.8 6.6	23 SA	0435 0934 1659 2156	1.3 6.6 1.0 6.7
9 SA ●	0616 1059 1835 2323	1.0 6.8 0.8 6.7	24 SU O	0521 1013 1747 2234	1.0 6.9 0.8 6.9
10 SU	0651 1135 1906 2354	1.0 6.9 0.8 6.7	25 M	0606 1053 1832 2313	0.9 7.1 0.7 7.0
11 M	0720 1209 1935	1.0 6.8 1.0	26 TU	0649 1133 1915 2353	0.8 7.2 0.6 7.0
12 TU	0026 0743 1242 1957	6.6 1.1 6.7 1.1	27 W	0730 1215 1956	0.7 7.1 0.7
13 W	0057 0803 1311 2017	6.5 1.2 6.5 1.2	28 TH	0036 0811 1301 2036	7.0 0.8 7.0 0.9
14 TH	0123 0826 1334 2042	6.4 1.4 6.3 1.4	29 F	0123 0854 1350 2118	6.8 1.0 6.7 1.2
15 F	0145 0856 1358 2114	6.2 1.6 6.0 1.7	30 SA	0217 0941 1449 2207	6.5 1.3 6.3 1.6
			31 SU	0321 1036 1600 2308	6.1 1.6 5.9 2.0

NOVEMBER

Day	Time	m	Day	Time	m
1 M	0434 1146 1720	5.8 2.0 5.6	16 TU	0322 1044 1623 2311	5.5 2.2 5.2 2.4
2 TU	0027 0554 1308 1851	2.2 5.6 2.0 5.5	17 W	0506 1159 1800	5.3 2.3 5.3
3 W	0155 0721 1433 2012	2.1 5.7 1.8 5.7	18 TH	0043 0626 1330 1905	2.4 5.5 2.1 5.5
4 TH	0316 0828 1546 2107	1.8 6.0 1.5 6.0	19 F	0206 0727 1436 1959	2.1 5.8 1.8 5.9
5 F	0417 0917 1642 2149	1.5 6.3 1.2 6.3	20 SA	0306 0817 1533 2045	1.7 6.2 1.4 6.3
6 SA	0505 0957 1727 2224	1.3 6.5 1.0 6.4	21 SU	0359 0901 1626 2127	1.4 6.6 1.1 6.6
7 SU	0545 1034 1804 2256	1.2 6.7 1.0 6.6	22 M	0450 0944 1717 2208	1.1 6.9 0.8 6.8
8 M ●	0619 1109 1835 2327	1.1 6.7 1.0 6.6	23 TU O	0539 1027 1808 2251	0.9 7.1 0.7 7.0
9 TU	0647 1143 1900	1.2 6.7 1.1	24 W	0627 1112 1855 2336	0.8 7.1 0.7 7.0
10 W	0000 0710 1215 1922	6.6 1.2 6.6 1.2	25 TH	0714 1158 1941	0.7 7.1 0.7
11 TH	0031 0733 1243 1946	6.5 1.3 6.4 1.3	26 F	0023 0800 1247 2026	7.0 0.8 6.9 0.9
12 F	0056 0801 1306 2016	6.4 1.4 6.3 1.4	27 SA	0113 0847 1340 2112	6.8 0.9 6.7 1.1
13 SA	0118 0833 1330 2049	6.3 1.5 6.1 1.6	28 SU	0207 0937 1439 2202	6.6 1.2 6.3 1.5
14 SU	0146 0909 1404 2127	6.1 1.7 5.8 1.9	29 M	0306 1032 1543 2258	6.3 1.4 6.0 1.8
15 M	0225 0951 1451 2213	5.8 2.0 5.5 2.1	30 TU	0408 1133 1652	6.0 1.7 5.7

DECEMBER

Day	Time	m	Day	Time	m
1 W	0003 0516 1241 1810	2.0 5.8 1.8 5.5	16 TH	0356 1119 1642 2345	5.7 2.0 5.4 2.1
2 TH	0114 0633 1351 1929	2.1 5.7 1.8 5.6	17 F	0518 1233 1812	5.6 2.0 5.5
3 F	0225 0746 1500 2028	2.0 5.8 1.7 5.8	18 SA	0106 0635 1348 1918	2.1 5.8 1.8 5.8
4 SA	0331 0841 1600 2114	1.8 6.0 1.5 6.0	19 SU	0220 0738 1453 2013	1.8 6.1 1.5 6.1
5 SU	0425 0927 1649 2153	1.6 6.2 1.3 6.2	20 M	0322 0831 1553 2103	1.5 6.4 1.2 6.4
6 M	0509 1007 1728 2228	1.4 6.4 1.3 6.3	21 TU	0421 0922 1652 2150	1.2 6.7 1.0 6.6
7 TU ●	0545 1043 1800 2303	1.3 6.5 1.2 6.4	22 W O	0517 1011 1749 2238	1.0 6.9 0.8 6.8
8 W	0616 1118 1828 2337	1.3 6.5 1.2 6.5	23 TH	0611 1100 1843 2327	0.8 7.0 0.7 6.9
9 TH	0644 1151 1856	1.3 6.4 1.2	24 F	0704 1149 1934	0.7 6.9 0.7
10 F	0009 0713 1221 1926	6.5 1.3 6.3 1.3	25 SA	0015 0755 1240 2022	6.9 0.7 6.8 0.8
11 SA	0038 0744 1248 1959	6.4 1.3 6.2 1.4	26 SU	0104 0844 1331 2108	6.9 0.8 6.6 1.0
12 SU	0103 0819 1315 2033	6.3 1.4 6.1 1.5	27 M	0154 0933 1423 2153	6.7 0.9 6.4 1.2
13 M	0131 0855 1347 2111	6.2 1.6 6.0 1.6	28 TU	0245 1020 1518 2239	6.5 1.1 6.1 1.5
14 TU	0209 0935 1429 2152	6.1 1.7 5.8 1.8	29 W	0338 1109 1615 2328	6.2 1.4 5.8 1.8
15 W	0256 1022 1524 2242	5.9 1.9 5.6 2.0	30 TH	0436 1201 1718	5.9 1.7 5.5
			31 F	0023 0539 1259 1827	2.0 5.7 1.8 5.4

Prédictions pour les ports secondaires
Côte sud-est de l'Angleterre

ENGLAND, SOUTH AND EAST COASTS

No.	PLACE	Lat. N.	Long. W.	TIME DIFFERENCES High Water Zone U.T.(G.M.T.)		Low Water		HEIGHT DIFFERENCES (IN METRES) MHWS	MHWN	MLWN	MLWS	M.L. Z_0 m.	
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	
	Chichester Harbour												
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	−0.1	⊙	⊙	⊙	
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	−0.1	⊙	⊙	⊙	
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	j
70	Nab Tower	50 40	0 57	+0015	0000	+0015	+0015	−0.2	0.0	+0.2	0.0	2.59	j
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	⊙	
73	Bognor Regis	50 47	0 40	+0010	−0005	−0005	−0020	−0.6	−0.5	−0.2	−0.1	3.14	
	River Arun												
74	Littlehampton (Entrance)	50 48	0 32	+0010	0000	−0005	−0010	−0.4	−0.4	−0.2	−0.2	⊙	
74a	Littlehampton (Norfolk Wharf)	50 48	0 33	+0015	+0005	0000	+0045	−0.7	−0.7	−0.3	+0.2	2.83	*c
74b	Arundel	50 51	0 33	⊙	+0120	⊙	⊙	−3.1	−2.8	⊙	⊙	⊙	
75	Worthing	50 48	0 22	+0010	0000	−0005	−0010	−0.1	−0.2	0.0	0.0	⊙	
81	SHOREHAM	50 50	0 15	STANDARD PORT					See Table V			3.32	
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	⊙	⊙	+1.0	+0.7	⊙	⊙	⊙	
86a	Rye (Harbour)	50 56	0 46	+0005	−0010	§	§	−1.4	−1.7	§	§	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			3.74	
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	c
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	⊙	
103	MARGATE	51 23	1 23	STANDARD PORT					See Table V			2.60	
104	Herne 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	⊙	
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**		
	River Swale												
106	Grovehurst Jetty	51 22	0 46	−0007	0000	0000	+0016	0.0	0.0	0.0	−0.1	⊙	
107	Faversham	51 19	0 54	⊙	⊙	⊙	⊙	−0.2	−0.2	⊙	⊙	⊙	
	River Medway												
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	⊙	⊙	+0.1	0.0	⊙	⊙	⊙	
108c	Darnett Ness	51 24	0 36	+0004	+0004	0000	+0010	+0.2	+0.1	0.0	−0.1	⊙	
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	⊙	
109b	Rochester (Strood Pier)	51 24	0 30	+0018	+0018	+0018	+0028	+0.2	+0.2	−0.2	−0.3	2.91	
109c	Wouldham	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	⊙	⊙	−2.1	−2.2	−1.3	−0.4	0.96	

⊙ No data.
* See notes on page 344.
§ Dries out exept for river water.

c For intermediate heights, use harmonic constants (see Part III).
j For intermediate heights, see pages xxii to xxiv.
x M.L. inferred.

Prédictions pour les ports secondaires
Côte sud-est de l'Angleterre

ENGLAND, EAST COAST

No.	PLACE	Lat. N.	Long. E.	TIME DIFFERENCES High Water Zone U.T.(G.M.T.)		Low Water		HEIGHT DIFFERENCES (IN METRES) MHWS	MHWN	MLWN	MLWS	M.L. Z_0 m.	
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**		
	River Thames												
110	Southend-on-Sea	51 31	0 43	−0005	0000	0000	+0005	0.0	0.0	−0.1	−0.1	2.99	⋆
110a	Coryton	51 30	0 31	+0005	+0010	+0010	+0015	+0.4	+0.3	+0.1	−0.1	3.19	⋆
111	**TILBURY**	(see page 58)		**and 1500**	**03000900 and 2100**	**and 1500**	**0300 and 2100**	**1900 6.4**	**5.4**	**1.4**	**0.5**	3.30	⋆
112	North Woolwich	51 30	0 05	+0030	+0025	+0035	+0035	+0.6	+0.5	+0.2	0.0	3.65	⋆
113	**LONDON BRIDGE**	(see page 62)		**0300 and 1500**	**0900 and 2100**	**0400 and 1600**	**1100 and 2300**	**7.1**	**5.9**	**1.3**	**0.5**	3.64	
		N.	**W.**										
114	Albert Bridge	51 29	0 10	+0025	+0020	+0105	+0110	−0.9	−0.8	−0.7	−0.4	⊙	⋆
115	Hammersmith Bridge	51 29	0 14	+0040	+0035	+0205	+0155	−1.4	−1.3	−1.0	−0.5	⊙	⋆
115a	Kew Bridge	51 29	0 17	+0055	+0050	+0255	+0235	−1.8	−1.8	−1.2	−0.5	⊙	⋆
116	Richmond Lock	51 28	0 19	+0105	+0055	+0325	+0305	−2.2	−2.2	−1.3	−0.5	⊙	⋆
108	**SHEERNESS**	(see page 54)		**0200 and 1400**	**0700 and 1900**	**0100 and 1300**	**0700 and 1900**	**5.8**	**4.7**	**1.5**	**0.6**		
		N.	**E.**										
	Thames Estuary												
116a	Shivering Sand	51 30	1 05	−0025	−0019	−0008	−0026	−0.6	−0.6	−0.1	−0.1	2.75	⋆
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**		
117	S.E. Long Sand	51 32	1 21	−0006	−0003	−0004	−0004	0.0	+0.1	0.0	−0.1	2.5	⋆x
129	**WALTON-ON-THE-NAZE**	(see page 66)		**0000 and 1200**	**0600 and 1800**	**0500 and 1700**	**1100 and 2300**	**4.2**	**3.4**	**1.1**	**0.4**		
121	Whitaker Beacon	51 40	1 06	+0022	+0024	+0033	+0027	+0.6	+0.5	+0.2	+0.1	2.5	⋆x
121a	Holliwell Point	51 38	0 56	+0034	+0037	+0100	+0037	+1.1	+0.9	+0.3	+0.1	⊙	
	River Roach												
121b	Rochford	51 35	0 43	+0050	+0040	§	§	−0.8	−1.1	§	§	⊙	
	River Crouch												
122	Burnham-on-Crouch	51 37	0 48	+0050	+0035	+0115	+0050	+1.0	+0.8	−0.1	−0.2	2.50	c
122a	North Fambridge	51 38	0 41	+0115	+0050	+0130	+0100	+1.1	+0.8	0.0	−0.1	2.55	c
122b	Hullbridge	51 38	0 38	+0115	+0050	+0135	+0105	+1.1	+0.8	0.0	−0.1	2.55	c
122c	Battlesbridge	51 37	0 34	+0120	+0110	§	§	−1.8	−2.0	§	§	⊙	
	River Blackwater												
123	Bradwell Waterside	51 45	0 53	+0035	+0023	+0047	+0004	+1.0	+0.8	+0.2	0.0	2.72	c
123a	Osea Island	51 43	0 46	+0057	+0045	+0050	+0007	+1.1	+0.9	+0.1	0.0	2.68	
123b	Maldon	51 44	0 42	+0107	+0055	⊙	⊙	−1.3	−1.1	⊙	⊙	⊙	
124	West Mersea	51 47	0 54	+0035	+0015	+0055	+0010	+0.9	+0.4	+0.1	+0.1	2.7	cx
	River Colne												
126	Brightlingsea	51 48	1 00	+0025	+0021	+0046	+0004	+0.8	+0.4	+0.1	0.0	2.91	
127	Colchester	51 53	0 56	+0035	+0025	§	§	0.0	−0.3	§	§	⊙	
128	Clacton-on-Sea	51 47	1 09	+0012	+0010	+0025	+0008	+0.3	+0.1	+0.1	+0.1	2.38	
129	WALTON-ON-THE-NAZE	51 51	1 16	STANDARD PORT					See Table V			2.20	
129a	Bramble Creek	51 53	1 14	+0010	−0007	−0005	+0010	+0.3	+0.3	+0.3	+0.3	2.38	
130	Sunk Head	51 46	1 30	0000	+0002	−0002	+0002	−0.3	−0.3	−0.1	−0.1	2.08	
131	**HARWICH**	(see page 70)		**0000 and 1200**	**0600 and 1800**	**0000 and 1200**	**0600 and 1800**	**4.0**	**3.4**	**1.1**	**0.4**	2.08	
	River Stour												
132	Mistley	51 57	1 05	+0025	+0025	0000	+0020	+0.2	0.0	−0.1	−0.1	⊙	
	River Orwell												
133	Ipswich	52 03	1 10	+0015	+0025	0000	+0010	+0.2	0.0	−0.1	−0.1	2.44	c

SEASONAL CHANGES IN MEAN LEVEL

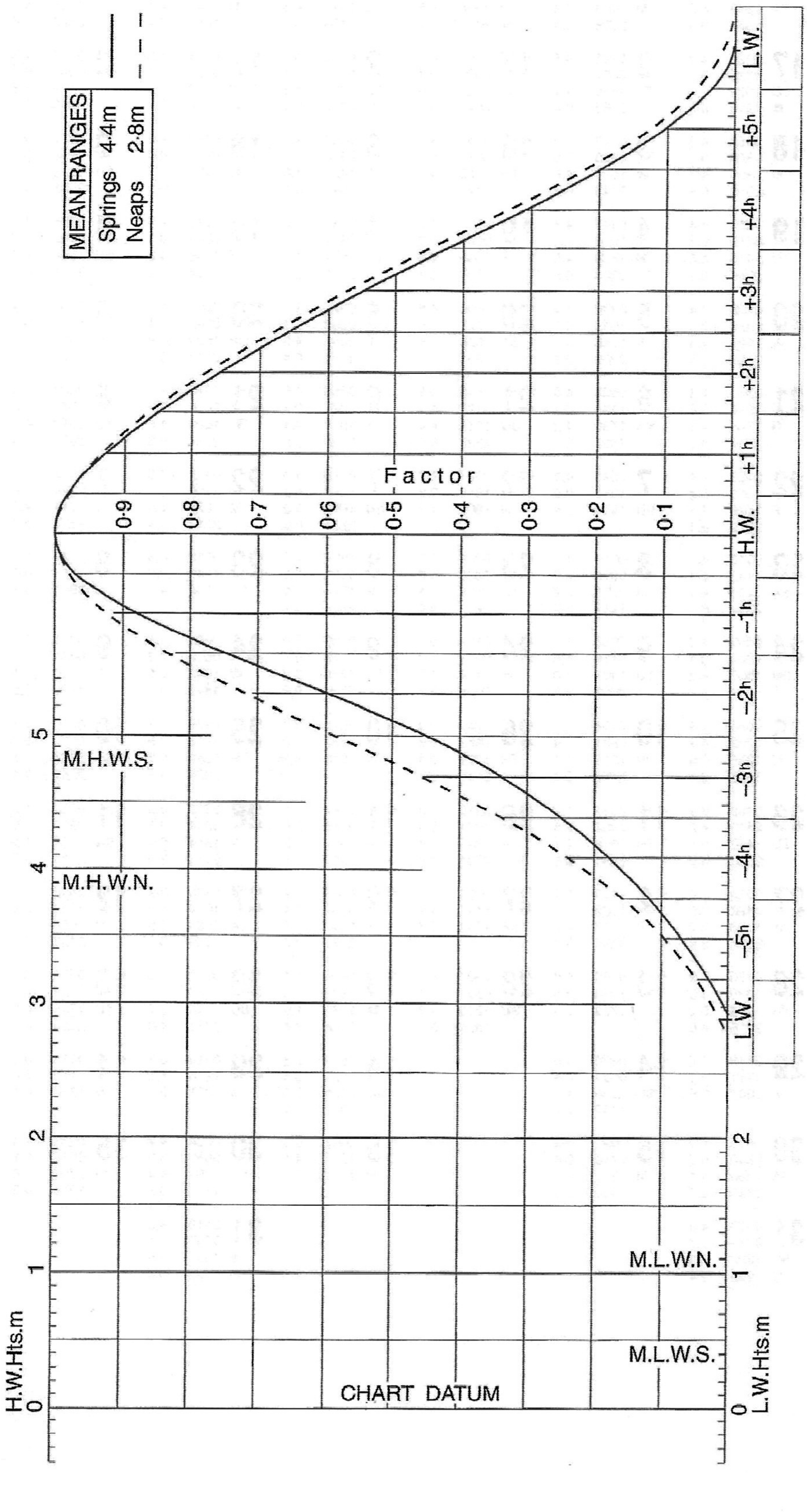
No.	Jan. 1	Feb. 1	Mar. 1	Apr. 1	May 1	June 1	July 1	Aug. 1	Sep. 1	Oct. 1	Nov. 1	Dec. 1	Jan. 1
65 – 133						Negligible							

Les données de marée à Zeebrugge

ZEEBRUGGE

MEAN SPRING AND NEAP CURVES

Springs occur 2 days after New and Full Moon.



BELGIUM – ZEEBRUGGE

LAT 51°21′N LONG 3°12′E

TIME ZONE –0100 | TIMES AND HEIGHTS OF HIGH AND LOW WATERS | YEAR 1999

JANUARY

Day	Time	m	Day	Time	m
1	0022	4.4	16	0046	4.1
	0646	0.5		0655	0.6
F	1242	4.5	SA	1259	4.2
	1908	0.4		1903	0.6
2	0111	4.5	17	0120	4.2
	0735	0.3		0729	0.5
SA	1330	4.6	SU	1333	4.3
O	1955	0.3	●	1940	0.5
3	0156	4.6	18	0153	4.3
	0820	0.2		0806	0.3
SU	1416	4.7	M	1407	4.5
	2039	0.3		2018	0.4
4	0240	4.6	19	0226	4.4
	0905	0.1		0845	0.3
M	1501	4.7	TU	1443	4.5
	2123	0.4		2058	0.4
5	0324	4.6	20	0302	4.4
	0950	0.1		0927	0.2
TU	1547	4.7	W	1522	4.6
	2207	0.5		2140	0.5
6	0409	4.5	21	0341	4.4
	1036	0.2		1010	0.2
W	1633	4.5	TH	1604	4.6
	2251	0.6		2224	0.5
7	0454	4.3	22	0423	4.4
	1124	0.3		1055	0.3
TH	1721	4.3	F	1649	4.5
	2336	0.8		2310	0.6
8	0542	4.1	23	0510	4.3
	1214	0.5		1143	0.3
F	1812	4.1	SA	1739	4.4
				2359	0.7
9	0025	1.0	24	0602	4.2
	0633	3.9		1237	0.4
SA	1310	0.7	SU	1837	4.2
	1909	3.9			
10	0124	1.1	25	0055	0.8
	0732	3.7		0702	4.1
SU	1410	0.8	M	1337	0.5
	2011	3.7		1943	4.1
11	0233	1.2	26	0159	0.9
	0836	3.6		0810	4.0
M	1510	0.9	TU	1443	0.6
	2117	3.6		2053	3.9
12	0339	1.2	27	0313	1.0
	0942	3.5		0922	3.9
TU	1608	1.0	W	1553	0.7
	2221	3.6		2206	3.9
13	0441	1.1	28	0430	0.9
	1044	3.6		1035	4.0
W	1702	0.9	TH	1703	0.6
	2318	3.8		2316	4.0
14	0535	1.0	29	0542	0.7
	1137	3.8		1141	4.1
TH	1748	0.8	F	1807	0.6
15	0006	4.0	30	0015	4.2
	0619	0.8		0640	0.5
F	1221	4.0	SA	1236	4.4
	1828	0.7		1859	0.5
			31	0103	4.3
				0727	0.3
			SU	1322	4.5
			O	1944	0.4

FEBRUARY

Day	Time	m	Day	Time	m
1	0145	4.5	16	0131	4.3
	0810	0.1		0748	0.2
M	1405	4.6	TU	1348	4.5
	2026	0.4	●	2000	0.4
2	0225	4.5	17	0206	4.5
	0852	0.0		0828	0.1
TU	1446	4.7	W	1425	4.6
	2106	0.4		2041	0.3
3	0305	4.6	18	0243	4.5
	0933	0.0		0910	0.0
W	1527	4.6	TH	1505	4.7
	2145	0.4		2124	0.3
4	0345	4.5	19	0323	4.6
	1014	0.1		0953	0.0
TH	1609	4.5	F	1546	4.7
	2224	0.5		2207	0.3
5	0426	4.4	20	0404	4.6
	1055	0.2		1037	0.0
F	1650	4.4	SA	1630	4.6
	2300	0.6		2251	0.4
6	0505	4.3	21	0449	4.5
	1134	0.4		1122	0.1
SA	1730	4.2	SU	1717	4.4
	2335	0.8		2336	0.5
7	0545	4.1	22	0537	4.4
	1213	0.6		1211	0.3
SU	1811	3.9	M	1809	4.2
8	0010	1.0	23	0026	0.7
	0626	3.8		0633	4.2
M	1258	0.8	TU	1306	0.5
	1857	3.7		1911	4.0
9	0055	1.1	24	0127	0.8
	0716	3.6		0739	4.0
TU	1407	1.0	W	1414	0.7
	2002	3.5		2026	3.7
10	0236	1.3	25	0249	0.9
	0831	3.4		0859	3.8
W	1518	1.1	TH	1532	0.8
	2123	3.4		2149	3.7
11	0353	1.2	26	0415	0.9
	0952	3.4		1024	3.8
TH	1618	1.1	F	1649	0.8
	2235	3.5		2308	3.8
12	0455	1.1	27	0533	0.7
	1100	3.6		1137	4.1
F	1712	0.9	SA	1759	0.6
	2334	3.7			
13	0548	0.8	28	0007	4.1
	1153	3.8		0631	0.4
SA	1759	0.8	SU	1230	4.3
				1851	0.5
14	0020	4.0			
	0631	0.6			
SU	1236	4.1			
	1840	0.6			
15	0057	4.2			
	0710	0.4			
M	1312	4.3			
	1920	0.5			

MARCH

Day	Time	m	Day	Time	m
1	0052	4.3	16	0028	4.1
	0716	0.2		0645	0.3
M	1312	4.5	TU	1247	4.4
	1932	0.5		1857	0.4
2	0130	4.4	17	0105	4.3
	0756	0.1		0725	0.1
TU	1350	4.6	W	1324	4.6
O	2010	0.4	●	1938	0.3
3	0206	4.5	18	0142	4.5
	0834	0.0		0806	0.0
W	1427	4.6	TH	1403	4.7
	2046	0.4		2020	0.2
4	0243	4.5	19	0220	4.6
	0911	0.0		0849	-0.1
TH	1504	4.6	F	1443	4.8
	2120	0.4		2104	0.2
5	0320	4.5	20	0301	4.7
	0948	0.1		0932	-0.1
F	1541	4.5	SA	1525	4.8
	2154	0.4		2147	0.2
6	0355	4.5	21	0343	4.7
	1022	0.2		1016	-0.1
SA	1617	4.4	SU	1609	4.6
	2225	0.5		2231	0.3
7	0429	4.3	22	0428	4.6
	1053	0.3		1100	0.1
SU	1650	4.2	M	1655	4.4
	2254	0.6		2315	0.4
8	0502	4.2	23	0516	4.5
	1121	0.5		1148	0.2
M	1721	4.0	TU	1746	4.2
	2324	0.7			
9	0535	4.0	24	0004	0.5
	1152	0.7		0610	4.2
TU	1756	3.9	W	1242	0.5
	2359	0.9		1847	3.9
10	0615	3.8	25	0106	0.7
	1232	0.9		0718	3.9
W	1841	3.6	TH	1353	0.7
				2005	3.6
11	0047	1.1	26	0232	0.9
	0710	3.5		0844	3.7
TH	1407	1.2	F	1514	0.9
	1959	3.4		2133	3.6
12	0307	1.2	27	0358	0.8
	0852	3.4		1014	3.8
F	1537	1.1	SA	1634	0.8
	2148	3.3		2253	3.7
13	0416	1.1	28	0515	0.6
	1020	3.5		1127	4.1
SA	1636	1.0	SU	1746	0.7
	2256	3.6		2351	4.0
14	0513	0.8	29	0614	0.3
	1121	3.8		1218	4.3
SU	1728	0.8	M	1837	0.5
	2347	3.9			
15	0602	0.6	30	0034	4.2
	1207	4.1		0659	0.2
M	1814	0.6	TU	1257	4.4
				1916	0.5
			31	0110	4.3
				0737	0.1
			W	1331	4.5
			O	1950	0.4

APRIL

Day	Time	m	Day	Time	m
1	0145	4.4	16	0115	4.6
	0812	0.1		0741	-0.1
TH	1405	4.5	F	1339	4.8
	2022	0.4	●	1958	0.2
2	0219	4.5	17	0156	4.7
	0845	0.1		0825	-0.1
F	1439	4.5	SA	1421	4.8
	2053	0.4		2042	0.1
3	0252	4.5	18	0239	4.8
	0918	0.1		0910	-0.1
SA	1513	4.4	SU	1504	4.7
	2123	0.4		2127	0.1
4	0325	4.4	19	0323	4.8
	0948	0.2		0954	-0.1
SU	1544	4.3	M	1549	4.6
	2153	0.4		2212	0.2
5	0356	4.4	20	0409	4.7
	1016	0.3		1040	0.1
M	1614	4.2	TU	1637	4.4
	2222	0.4		2258	0.3
6	0427	4.3	21	0458	4.5
	1044	0.5		1128	0.3
TU	1644	4.1	W	1729	4.1
	2252	0.5		2349	0.4
7	0500	4.2	22	0554	4.2
	1114	0.6		1223	0.6
W	1718	4.0	TH	1830	3.9
	2327	0.7			
8	0539	4.0	23	0054	0.6
	1153	0.8		0704	3.9
TH	1801	3.8	F	1334	0.8
				1947	3.6
9	0011	0.9	24	0216	0.7
	0631	3.7		0828	3.8
F	1250	1.1	SA	1452	0.9
	1903	3.5		2110	3.6
10	0210	1.1	25	0333	0.6
	0757	3.5		0953	3.8
SA	1457	1.1	SU	1609	0.9
	2059	3.4		2226	3.7
11	0339	1.0	26	0446	0.5
	0937	3.6		1104	4.1
SU	1601	1.0	M	1722	0.7
	2214	3.5		2325	4.0
12	0436	0.7	27	0548	0.3
	1043	3.8		1155	4.2
M	1656	0.8	TU	1815	0.6
	2309	3.8			
13	0528	0.5	28	0010	4.1
	1134	4.2		0635	0.2
TU	1745	0.6	W	1235	4.3
	2354	4.1		1854	0.5
14	0614	0.3	29	0047	4.3
	1218	4.4		0713	0.2
W	1830	0.4	TH	1309	4.4
				1927	0.5
15	0035	4.4	30	0121	4.3
	0658	0.1		0746	0.2
TH	1258	4.6	F	1342	4.4
	1914	0.3	O	1956	0.4

BELGIUM – ZEEBRUGGE

LAT 51°21′N LONG 3°12′E

TIME ZONE –0100 — TIMES AND HEIGHTS OF HIGH AND LOW WATERS — YEAR 1999

MAY

Date	Day	Time	m	Time	m	Time	m	Time	m
1	SA	0154	4.3	0816	0.2	1414	4.4	2025	0.4
2	SU	0226	4.4	0846	0.3	1446	4.3	2055	0.3
3	M	0257	4.4	0915	0.3	1516	4.3	2125	0.3
4	TU	0328	4.3	0945	0.4	1545	4.2	2157	0.4
5	W	0359	4.3	1015	0.5	1616	4.2	2229	0.4
6	TH	0434	4.2	1049	0.6	1652	4.1	2306	0.6
7	F	0515	4.1	1129	0.7	1736	3.9	2351	0.7
8	SA	0607	3.9	1224	0.9	1837	3.6		
9	SU	0114	0.9	0724	3.7	1411	1.1	2013	3.5
10	M	0259	0.8	0856	3.7	1524	0.9	2130	3.6
11	TU	0358	0.6	1004	3.9	1620	0.8	2229	3.9
12	W	0451	0.4	1059	4.2	1712	0.6	2320	4.1
13	TH	0542	0.3	1147	4.4	1802	0.5		
14	F	0006	4.4	0630	0.1	1232	4.6	1850	0.3
15	SA	0050	4.6	0716	0.0	1316	4.7	● 1936	0.2
16	SU	0134	4.7	0802	0.0	1400	4.7	2022	0.1
17	M	0219	4.8	0848	0.0	1446	4.7	2109	0.1
18	TU	0306	4.7	0934	0.1	1532	4.5	2155	0.1
19	W	0354	4.6	1021	0.2	1621	4.4	2244	0.2
20	TH	0445	4.5	1110	0.4	1714	4.1	2337	0.3
21	F	0542	4.3	1206	0.6	1814	3.9		
22	SA	0041	0.4	0648	4.0	1312	0.8	1923	3.7
23	SU	0152	0.5	0803	3.9	1423	0.9	2037	3.7
24	M	0301	0.6	0919	3.9	1533	0.9	2147	3.7
25	TU	0408	0.5	1027	4.0	1644	0.9	2249	3.9
26	W	0511	0.4	1122	4.1	1744	0.7	2339	4.0
27	TH	0603	0.4	1206	4.2	1827	0.7		
28	F	0020	4.1	0643	0.4	1244	4.2	1901	0.6
29	SA	0056	4.2	0717	0.4	1319	4.3	1931	0.5
30	SU	0130	4.2	0746	0.4	1351	4.3	O 2000	0.4
31	M	0202	4.3	0815	0.4	1422	4.3	2030	0.4

JUNE

Date	Day	Time	m	Time	m	Time	m	Time	m
1	TU	0234	4.3	0846	0.4	1452	4.2	2103	0.3
2	W	0305	4.3	0919	0.4	1523	4.2	2138	0.3
3	TH	0338	4.3	0954	0.5	1556	4.2	2214	0.4
4	F	0416	4.3	1031	0.6	1634	4.1	2254	0.5
5	SA	0459	4.2	1113	0.7	1720	4.0	2342	0.6
6	SU	0551	4.1	1207	0.8	1817	3.8		
7	M	0053	0.7	0658	4.0	1325	0.9	1933	3.7
8	TU	0216	0.6	0816	3.9	1441	0.9	2047	3.8
9	W	0318	0.5	0924	4.0	1542	0.8	2150	3.9
10	TH	0415	0.4	1024	4.2	1640	0.7	2246	4.1
11	F	0510	0.3	1118	4.3	1735	0.5	2339	4.3
12	SA	0603	0.2	1209	4.5	1828	0.4		
13	SU	0028	4.5	0654	0.2	1257	4.5	● 1918	0.3
14	M	0116	4.6	0743	0.1	1344	4.6	2007	0.2
15	TU	0204	4.7	0830	0.1	1431	4.6	2054	0.1
16	W	0252	4.7	0917	0.2	1518	4.5	2142	0.1
17	TH	0340	4.7	1004	0.3	1606	4.4	2231	0.1
18	F	0431	4.5	1052	0.5	1656	4.3	2323	0.2
19	SA	0524	4.3	1144	0.6	1750	4.1		
20	SU	0020	0.3	0623	4.2	1241	0.8	1850	3.9
21	M	0121	0.4	0728	4.0	1345	0.9	1955	3.8
22	TU	0224	0.5	0835	3.8	1450	1.0	2101	3.7
23	W	0326	0.6	0941	3.8	1557	1.0	2204	3.7
24	TH	0427	0.6	1041	3.9	1700	0.9	2301	3.8
25	F	0522	0.6	1133	4.0	1753	0.8	2350	3.9
26	SA	0608	0.6	1217	4.1	1833	0.7		
27	SU	0032	4.0	0645	0.6	1256	4.1	1907	0.6
28	M	0108	4.1	0717	0.6	1330	4.2	O 1937	0.5
29	TU	0142	4.2	0748	0.5	1402	4.2	2010	0.4
30	W	0214	4.3	0822	0.5	1433	4.3	2045	0.3

JULY

Date	Day	Time	m	Time	m	Time	m	Time	m
1	TH	0247	4.3	0858	0.5	1505	4.3	2123	0.3
2	F	0322	4.4	0936	0.5	1540	4.3	2202	0.3
3	SA	0401	4.4	1016	0.6	1619	4.2	2245	0.4
4	SU	0444	4.4	1100	0.6	1704	4.2	2332	0.4
5	M	0533	4.3	1150	0.7	1756	4.1		
6	TU	0029	0.5	0631	4.2	1249	0.8	1857	4.0
7	W	0134	0.5	0738	4.1	1357	0.8	2006	4.0
8	TH	0239	0.5	0846	4.1	1504	0.8	2113	4.0
9	F	0341	0.5	0951	4.1	1609	0.8	2216	4.1
10	SA	0442	0.4	1054	4.2	1713	0.7	2317	4.2
11	SU	0542	0.4	1152	4.3	1813	0.5		
12	M	0013	4.4	0637	0.3	1244	4.4	1906	0.3
13	TU	0104	4.6	0728	0.3	1331	4.5	● 1955	0.2
14	W	0152	4.7	0815	0.3	1417	4.5	2042	0.1
15	TH	0238	4.7	0900	0.3	1502	4.6	2128	0.0
16	F	0325	4.7	0945	0.4	1547	4.5	2215	0.0
17	SA	0412	4.6	1030	0.5	1633	4.4	2302	0.1
18	SU	0500	4.5	1116	0.6	1720	4.3	2351	0.2
19	M	0550	4.3	1203	0.8	1810	4.1		
20	TU	0042	0.4	0644	4.1	1255	0.9	1905	3.9
21	W	0139	0.6	0742	3.8	1357	1.1	2005	3.7
22	TH	0240	0.8	0847	3.7	1506	1.1	2112	3.6
23	F	0340	0.9	0953	3.6	1613	1.1	2218	3.6
24	SA	0438	0.9	1055	3.7	1713	1.0	2317	3.8
25	SU	0530	0.8	1148	3.9	1803	0.8		
26	M	0006	3.9	0613	0.8	1232	4.0	1843	0.7
27	TU	0047	4.1	0650	0.7	1309	4.2	1917	0.5
28	W	0122	4.3	0724	0.6	1342	4.3	O 1952	0.4
29	TH	0155	4.4	0801	0.5	1413	4.4	2028	0.3
30	F	0229	4.5	0839	0.4	1446	4.4	2107	0.2
31	SA	0305	4.6	0919	0.4	1522	4.4	2148	0.2

AUGUST

Date	Day	Time	m	Time	m	Time	m	Time	m
1	SU	0344	4.6	1000	0.5	1602	4.5	2231	0.2
2	M	0426	4.6	1044	0.5	1644	4.4	2316	0.2
3	TU	0512	4.5	1129	0.6	1732	4.4		
4	W	0004	0.3	0603	4.4	1220	0.7	1826	4.3
5	TH	0059	0.4	0703	4.2	1318	0.8	1929	4.2
6	F	0203	0.5	0811	4.1	1429	0.9	2040	4.0
7	SA	0312	0.6	0924	4.0	1545	0.9	2153	4.0
8	SU	0421	0.6	1036	4.0	1658	0.7	2304	4.2
9	M	0528	0.6	1141	4.1	1804	0.6		
10	TU	0005	4.4	0627	0.5	1234	4.3	1858	0.3
11	W	0055	4.6	0717	0.5	1319	4.5	● 1945	0.2
12	TH	0140	4.7	0801	0.4	1401	4.6	2028	0.1
13	F	0223	4.8	0843	0.4	1443	4.6	2111	0.0
14	SA	0305	4.8	0924	0.4	1524	4.7	2153	0.0
15	SU	0348	4.7	1004	0.5	1606	4.6	2235	0.1
16	M	0430	4.6	1043	0.5	1647	4.5	2316	0.2
17	TU	0512	4.4	1121	0.7	1728	4.3	2356	0.5
18	W	0555	4.1	1158	0.8	1811	4.1		
19	TH	0039	0.7	0640	3.9	1240	1.0	1859	3.8
20	F	0138	0.9	0738	3.7	1357	1.2	2005	3.6
21	SA	0253	1.1	0857	3.5	1529	1.2	2129	3.5
22	SU	0357	1.1	1014	3.6	1634	1.1	2241	3.6
23	M	0453	1.0	1116	3.8	1730	0.9	2338	3.9
24	TU	0542	0.9	1204	4.0	1816	0.7		
25	W	0022	4.1	0624	0.7	1243	4.2	1854	0.5
26	TH	0059	4.4	0701	0.6	1317	4.4	1930	0.3
27	F	0133	4.6	0739	0.4	1349	4.5	O 2008	0.2
28	SA	0207	4.7	0818	0.4	1424	4.6	2047	0.1
29	SU	0244	4.8	0900	0.3	1501	4.7	2129	0.1
30	M	0323	4.8	0942	0.4	1541	4.7	2211	0.1
31	TU	0405	4.8	1024	0.4	1623	4.7	2255	0.1

NETHERLANDS – VLISSINGEN (FLUSHING)

LAT 51°27′N LONG 3°36′E

TIME ZONE –0100

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 1999

SEPTEMBER

Date	Day	Time	m
1	W	0516	4.7
		1151	0.6
		1736	4.6
2	TH	0020	0.3
		0607	4.5
		1236	0.7
		1829	4.4
3	F	0106	0.4
		0706	4.3
		1325	0.8
		1936	4.2
4	SA	0206	0.6
		0818	4.1
		1440	0.9
		2052	4.1
5	SU	0315	0.8
		0935	3.9
		1555	0.9
		2209	4.1
6	M	0440	0.8
		1055	4.0
		1715	0.8
		2328	4.3
7	TU	0555	0.7
		1205	4.2
		1836	0.5
8	W	0027	4.5
		0656	0.6
		1256	4.5
		1926	0.3
9	TH	0117	4.8
		0738	0.5
		1337	4.7
	●	2008	0.2
10	F	0156	4.9
		0820	0.5
		1419	4.8
		2050	0.1
11	SA	0239	4.9
		0855	0.5
		1456	4.8
		2128	0.1
12	SU	0316	4.9
		0936	0.5
		1535	4.8
		2205	0.2
13	M	0355	4.8
		1009	0.5
		1612	4.8
		2238	0.3
14	TU	0430	4.7
		1046	0.6
		1647	4.7
		2312	0.5
15	W	0507	4.5
		1116	0.7
		1726	4.5
		2340	0.6
16	TH	0545	4.3
		1145	0.8
		1759	4.3
17	F	0010	0.8
		0625	4.1
		1220	0.9
		1845	4.0
18	SA	0045	1.0
		0710	3.9
		1310	1.1
		1946	3.8
19	SU	0150	1.2
		0815	3.6
		1516	1.2
		2059	3.6
20	M	0356	1.2
		0935	3.5
		1626	1.1
		2246	3.7
21	TU	0456	1.1
		1116	3.7
		1731	0.9
		2346	4.0
22	W	0556	1.0
		1205	4.0
		1819	0.7
23	TH	0031	4.3
		0640	0.8
		1248	4.3
		1906	0.5
24	F	0106	4.6
		0715	0.6
		1325	4.6
		1946	0.3
25	SA	0141	4.9
		0755	0.5
		1356	4.8
	O	2023	0.2
26	SU	0215	5.0
		0836	0.4
		1433	4.9
		2105	0.1
27	M	0256	5.1
		0921	0.4
		1511	5.0
		2147	0.1
28	TU	0333	5.1
		1002	0.4
		1551	5.0
		2230	0.1
29	W	0413	5.0
		1046	0.4
		1632	4.9
		2312	0.2
30	TH	0456	4.8
		1128	0.5
		1716	4.8
		2357	0.3

OCTOBER

Date	Day	Time	m
1	F	0546	4.5
		1215	0.6
		1807	4.5
2	SA	0046	0.5
		0642	4.2
		1309	0.7
		1915	4.3
3	SU	0139	0.8
		0801	4.0
		1414	0.8
		2036	4.1
4	M	0255	0.9
		0915	3.8
		1546	0.9
		2200	4.1
5	TU	0424	1.0
		1041	3.9
		1716	0.7
		2315	4.3
6	W	0550	0.8
		1149	4.2
		1820	0.5
7	TH	0015	4.5
		0646	0.7
		1238	4.4
		1910	0.3
8	F	0106	4.7
		0726	0.6
		1321	4.6
		1948	0.2
9	SA	0142	4.9
		0802	0.5
		1357	4.7
	●	2027	0.2
10	SU	0219	4.9
		0835	0.5
		1436	4.8
		2102	0.2
11	M	0256	4.9
		0909	0.5
		1509	4.8
		2135	0.3
12	TU	0327	4.8
		0949	0.5
		1546	4.8
		2210	0.4
13	W	0402	4.7
		1015	0.6
		1617	4.7
		2240	0.6
14	TH	0436	4.5
		1045	0.6
		1648	4.5
		2308	0.7
15	F	0507	4.4
		1115	0.7
		1726	4.3
		2336	0.8
16	SA	0539	4.2
		1146	0.8
		1755	4.1
17	SU	0008	1.0
		0620	4.0
		1230	0.9
		1845	3.9
18	M	0055	1.1
		0727	3.7
		1330	1.1
		2010	3.7
19	TU	0230	1.3
		0839	3.6
		1547	1.1
		2146	3.7
20	W	0416	1.2
		1004	3.7
		1646	0.9
		2256	4.0
21	TH	0515	1.0
		1125	4.0
		1745	0.7
		2349	4.3
22	F	0606	0.8
		1210	4.3
		1829	0.5
23	SA	0031	4.7
		0645	0.6
		1247	4.6
		1916	0.3
24	SU	0109	4.9
		0728	0.5
		1326	4.9
	O	1959	0.2
25	M	0148	5.1
		0812	0.4
		1406	5.0
		2040	0.1
26	TU	0228	5.2
		0855	0.3
		1445	5.1
		2123	0.1
27	W	0310	5.1
		0940	0.3
		1528	5.1
		2205	0.1
28	TH	0354	5.0
		1026	0.3
		1614	5.0
		2251	0.2
29	F	0438	4.8
		1112	0.4
		1658	4.9
		2336	0.4
30	SA	0527	4.5
		1200	0.5
		1752	4.6
31	SU	0022	0.6
		0625	4.2
		1256	0.6
		1906	4.3

NOVEMBER

Date	Day	Time	m
1	M	0119	0.8
		0740	4.0
		1408	0.7
		2020	4.1
2	TU	0246	1.0
		0901	3.8
		1536	0.8
		2139	4.1
3	W	0410	1.0
		1020	3.9
		1701	0.7
		2255	4.3
4	TH	0537	0.9
		1125	4.1
		1801	0.5
		2355	4.5
5	F	0619	0.8
		1218	4.4
		1845	0.4
6	SA	0046	4.6
		0706	0.7
		1257	4.5
		1926	0.3
7	SU	0121	4.7
		0741	0.6
		1335	4.6
		1959	0.3
8	M	0157	4.8
		0812	0.5
		1411	4.7
	●	2036	0.4
9	TU	0231	4.8
		0846	0.5
		1445	4.8
		2108	0.4
10	W	0305	4.7
		0926	0.5
		1517	4.7
		2139	0.5
11	TH	0337	4.7
		0956	0.5
		1552	4.7
		2212	0.6
12	F	0410	4.5
		1025	0.6
		1626	4.5
		2240	0.7
13	SA	0442	4.4
		1055	0.7
		1658	4.4
		2306	0.8
14	SU	0516	4.3
		1125	0.7
		1736	4.3
		2340	0.9
15	M	0552	4.1
		1206	0.8
		1815	4.1
16	TU	0025	1.0
		0639	3.9
		1254	0.9
		1926	3.9
17	W	0130	1.2
		0806	3.8
		1414	0.9
		2045	3.9
18	TH	0255	1.2
		0918	3.8
		1550	0.8
		2159	4.0
19	F	0415	1.1
		1030	4.0
		1656	0.7
		2306	4.3
20	SA	0526	0.9
		1127	4.3
		1756	0.5
		2357	4.7
21	SU	0616	0.7
		1215	4.6
		1845	0.3
22	M	0039	4.9
		0700	0.5
		1258	4.9
		1931	0.2
23	TU	0123	5.0
		0748	0.4
		1341	5.0
	O	2016	0.1
24	W	0208	5.1
		0836	0.3
		1425	5.1
		2100	0.1
25	TH	0251	5.1
		0922	0.3
		1510	5.1
		2146	0.2
26	F	0336	4.9
		1008	0.2
		1556	5.0
		2230	0.3
27	SA	0426	4.8
		1056	0.3
		1646	4.9
		2316	0.5
28	SU	0517	4.6
		1146	0.3
		1741	4.7
29	M	0001	0.6
		0612	4.3
		1240	0.4
		1845	4.4
30	TU	0055	0.8
		0718	4.1
		1339	0.6
		1955	4.2

DECEMBER

Date	Day	Time	m
1	W	0205	1.0
		0826	4.0
		1444	0.7
		2110	4.1
2	TH	0325	1.1
		0946	3.9
		1627	0.7
		2226	4.2
3	F	0444	1.0
		1056	4.0
		1725	0.6
		2325	4.3
4	SA	0555	0.9
		1145	4.2
		1818	0.5
5	SU	0015	4.4
		0636	0.8
		1235	4.4
		1858	0.5
6	M	0058	4.5
		0716	0.7
		1310	4.5
		1935	0.5
7	TU	0135	4.6
		0750	0.6
		1349	4.6
	●	2008	0.5
8	W	0208	4.6
		0826	0.5
		1425	4.6
		2039	0.5
9	TH	0246	4.6
		0859	0.5
		1500	4.6
		2116	0.6
10	F	0317	4.6
		0936	0.5
		1531	4.6
		2151	0.6
11	SA	0349	4.5
		1016	0.5
		1606	4.6
		2215	0.7
12	SU	0421	4.5
		1046	0.5
		1637	4.5
		2250	0.8
13	M	0456	4.4
		1115	0.6
		1711	4.4
		2325	0.8
14	TU	0535	4.3
		1145	0.6
		1755	4.3
15	W	0008	0.9
		0620	4.1
		1240	0.6
		1845	4.2
16	TH	0055	1.0
		0720	4.0
		1334	0.7
		2000	4.1
17	F	0205	1.0
		0832	4.0
		1456	0.7
		2112	4.1
18	SA	0326	1.0
		0946	4.1
		1606	0.6
		2219	4.3
19	SU	0424	0.9
		1048	4.3
		1710	0.5
		2318	4.5
20	M	0535	0.7
		1142	4.5
		1816	0.4
21	TU	0016	4.7
		0639	0.6
		1236	4.7
		1907	0.3
22	W	0103	4.8
		0731	0.4
		1323	4.9
	O	1956	0.2
23	TH	0148	4.9
		0820	0.3
		1409	5.0
		2042	0.2
24	F	0236	4.9
		0908	0.2
		1456	5.0
		2126	0.3
25	SA	0325	4.9
		0956	0.2
		1545	5.0
		2213	0.4
26	SU	0412	4.8
		1043	0.1
		1633	4.9
		2255	0.5
27	M	0502	4.6
		1129	0.2
		1726	4.8
		2342	0.6
28	TU	0555	4.5
		1220	0.3
		1821	4.6
29	W	0029	0.7
		0648	4.3
		1304	0.4
		1919	4.3
30	TH	0126	0.9
		0751	4.1
		1410	0.6
		2026	4.1
31	F	0224	1.0
		0855	3.9
		1515	0.7
		2134	4.0

Prédictions pour les ports secondaires
Côtes hollandaise et belge

NETHERLANDS; BELGIUM

No.	PLACE	Lat. N.	Long. E.	TIME DIFFERENCES High Water		Low Water		HEIGHT DIFFERENCES (IN METRES) MHWS	MHWN	MLWN	MLWS	M.L. Z_0 m.	
				Zone –0100									
1534	**VLISSINGEN (FLUSHING)**	(see page 202)		**0300 and 1500**	**0900 and 2100**	**0400 and 1600**	**1000 and 2200**	**4.8**	**3.9**	**0.9**	**0.3**		
1501	IJmuiden	N 52 28	4 35	+0145	+0140	+0305	+0325	–2.7	–2.2	–0.6	–0.1	0.97	c
1503	Scheveningen	N 52 06	4 16	+0105	+0100	+0220	+0245	–2.6	–2.1	–0.6	–0.1	0.92	*
1504	Europlatform	N 52 00	3 17	+0005	–0005	–0030	–0055	–2.7	–2.2	–0.6	–0.1	0.98	*
	Nieuwe Waterweg												
1505	HOEK VAN HOLLAND	51 59	4 07	STANDARD PORT					See Table V			0.91	*
1506	Maassluis	51 55	4 15	+0125	+0100	+0110	+0255	–2.8	–2.2	–0.6	0.0	0.93	*
	Nieuwe Maas												
1507	Vlaardingen	51 54	4 21	+0150	+0125	+0135	+0320	–2.8	–2.2	–0.6	0.0	0.89	*
1508	ROTTERDAM	51 55	4 30	STANDARD PORT					See Table V			0.89	*
	Lek												
1509	Krimpen	51 55	4 38	+0230	+0210	+0305	+0430	–3.3	–2.6	–0.7	–0.1	0.68	*
1510	Streefkerk	51 55	4 45	+0305	+0310	+0400	+0510	–3.3	–2.5	–0.6	0.0	0.79	*
1511	Schoonhoven	51 57	4 51	+0415	+0315	+0435	+0545	–3.1	–2.4	–0.5	+0.1	1.14	*
	Oude Maas												
1512	Spijkenisse	51 52	4 20	+0155	+0125	+0135	+0315	–3.0	–2.3	–0.7	–0.1	0.79	*
1512a	Goidschalxoord	51 50	4 27	+0225	+0205	+0235	+0355	–3.4	–2.7	–0.7	–0.1	0.60	*
	De Kil												
1515	's–Gravendeel	51 47	4 38	+0400	+0310	+0425	+0525	–4.0	–3.2	–0.6	0.0	0.44	*
	Merwede												
1517	Dordrecht	N 51 49	4 39	+0205	+0300	+0405	+0505	–3.8	–3.1	–0.7	0.0	0.48	*
1520	Werkendam	51 49	4 53	+0425	+0410	+0550	+0650	–4.1	–3.3	–0.6	0.0	0.43	*
1521	Haringvlietsluizen	N 51 50	4 02	+0015	+0015	+0015	–0020	–1.8	–1.6	–0.5	0.0	1.24	*
	Oster Schelde												
1528	Roompot	N 51 37	3 40	–0015	+0005	+0005	–0020	–1.2	–1.0	–0.3	0.0	1.70	
1529	Stavenisse	N 51 36	4 01	+0150	+0120	+0055	+0115	–1.3	–0.9	–0.5	0.0	1.72	
1530a	Lodijkse Gat	51 30	4 12	+0145	+0125	+0105	+0115	–0.7	–0.4	–0.3	0.0	1.97	
	Zijpe												
1531	Philipsdam (West)	51 40	4 11	+0215	+0125	+0100	+0110	–1.2	–0.8	–0.5	–0.1	1.78	
	Walcheren												
1533a	Westkapelle	51 31	3 27	–0025	–0015	–0010	–0025	–0.6	–0.5	–0.1	0.0	2.02	
	Wester Schelde												
1534	VLISSINGEN (FLUSHING)	51 27	3 36	STANDARD PORT					See Table V			2.31	
1536	Terneuzen	N 51 20	3 50	+0020	+0020	+0020	+0030	+0.3	+0.3	0.0	0.0	2.52	c
1537	Hansweert	N 51 27	4 00	+0100	+0050	+0040	+0100	+0.6	+0.6	0.0	0.0	2.66	c
1538	Bath	N 51 24	4 13	+0125	+0115	+0115	+0140	+1.0	+0.9	0.0	0.0	2.79	c
1539	**ANTWERP (PROSPERPOLDER)**	(see page 206)		**0000 and 1200**	**0500 and 1700**	**0000 and 1200**	**0600 and 1800**	**5.8**	**4.8**	**0.8**	**0.3**	2.86	
	Belgium												
1539a	Boudewijnsluis	51 17	4 20	+0013	+0005	+0025	+0020	0.0	+0.1	0.0	0.0	2.81	c
1539b	Royersluis	B 51 14	4 24	+0030	+0015	+0045	+0041	+0.2	+0.3	0.0	0.0	2.84	c
1539c	Boom	51 05	4 22	+0125	+0110	+0155	+0150	–0.2	0.0	–0.4	–0.2	2.85	
1539d	Gentbrugge	51 03	3 44	+0430	+0415	+0630	+0600	–3.9	–3.3	–1.1	–0.4	1.0	x

⊘ No data.
* See notes on page 344.
B Tides predicted in Belgian Tide Tables.
F Tides predicted in French Tide Tables.
N Tides predicted in Netherlands Tides Tables.
c For intermediate heights, use harmonic constants (see Part III).
x M.L. inferred.

Prédictions pour les ports secondaires
Côtes belge et nord de la France

BELGIUM; FRANCE, NORTH COAST

No.	PLACE	Lat. N.	Long. E.	TIME DIFFERENCES High Water (Zone -0100)		Low Water		HEIGHT DIFFERENCES (IN METRES) MHWS	MHWN	MLWN	MLWS	M.L. Z_0 m.	
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	+0.2	+0.3	0.0	0.0	2.66	
1565	Nieuwpoort	51 09	2 43	-0031	-0031	-0010	-0010	+0.5	+0.4	+0.1	0.0	2.78	
1568	**DUNKERQUE**	(see page 214)		**0200 and 1400**	**0800 and 2000**	**0200 and 1400**	**0900 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**	**0600 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	
	Le Somme												
1575	Le Hourdel	50 13	1 34	+0020	+0020	⊖	⊖	+0.8	+0.6	⊖	⊖	⊖	
1576	St. Valery	50 11	1 37	+0035	+0035	⊖	⊖	+0.9	+0.7	⊖	⊖	⊖	
1577	Cayeux	50 11	1 29	0000	+0005	+0015	+0010	+0.5	+0.6	+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 56	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**	**6.6**	**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	
	La Seine												
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	⊖	*
1585	Quillebeouf	49 28	0 32	-0045	-0050	+0120	+0200	0.0	0.0	+0.2	+1.4	⊖	*
1586	Vatteville	49 29	0 40	+0005	-0020	+0225	+0250	0.0	-0.1	+0.8	+2.3	⊖	*
1587	Caudebec	49 32	0 44	+0020	-0015	+0230	+0300	-0.3	-0.2	+0.9	+2.4	⊖	*
1587a	Heurteauville	49 27	0 49	+0110	+0025	+0310	+0330	-0.5	-0.2	+1.1	+2.7	⊖	*
1588	Duclair	49 29	0 53	+0225	+0150	+0355	+0410	-0.4	-0.3	+1.4	+3.3	⊖	*
1589	Rouen	49 27	1 06	+0440	+0415	+0525	+0525	-0.2	-0.1	+1.6	+3.6	⊖	
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-Baie 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 - 1521	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