

G4 SYA und CCS

FRAGE TYP 4



Bestimmung der notwendigen Wassertiefe für das Ankern in der Nähe eines Anschlussortes um bei Niedrigwasser in der Nacht noch sicher aufzuschwimmen.

1 Punkt

Am 25. April 2016 erreichst du um 1900 (UT+2) einen schönen Platz in der Nähe von Erquy. Du willst hier ankern und die Nacht verbringen. Der Tiefgang deines Schiffes beträgt 2,5m, die Sicherheitsmarge ist 1m. Welchen Wert muss die Wassertiefe beim Zeitpunkt des Ankermanövers (1900 UT+2) mindestens betragen, damit du nachts bei Niedrigwasser noch sicher aufschwimmst?

- [Download CCS Gezeitenformular](#)
- [Download Gezeitendaten St Malo 2016 Jan – April](#)
- [Download Gezeitenkurve St Malo](#)
- [Download Informationen zum Anschlussort Erquy](#)

Die Umrechnungsdaten für den Anschlussort Erquy sind dem obigen Dokument zu entnehmen, das als Download zur Verfügung steht. Es ist das gleiche PDF-Dokument, wie bei den vorhergehenden Aufgaben 2 und 3, und muss daher nicht nochmals ausgedruckt werden.

6,4m

7,3m

8,1m

9,2m

Beilagen



Gezeitenberechnung

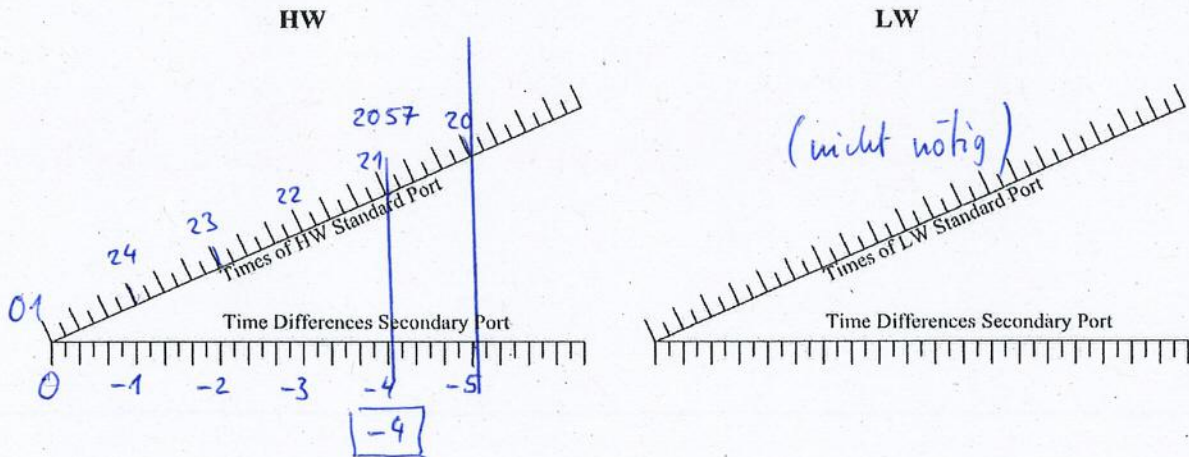
Secondary Port Erquy Page Date 25 April 16
 Standard Port ST MALO Page Time Zone UT+2
 Board Time 1900 + Nacht

Summer Time¹ Tide SPRINGS Mittzeit NEAPS

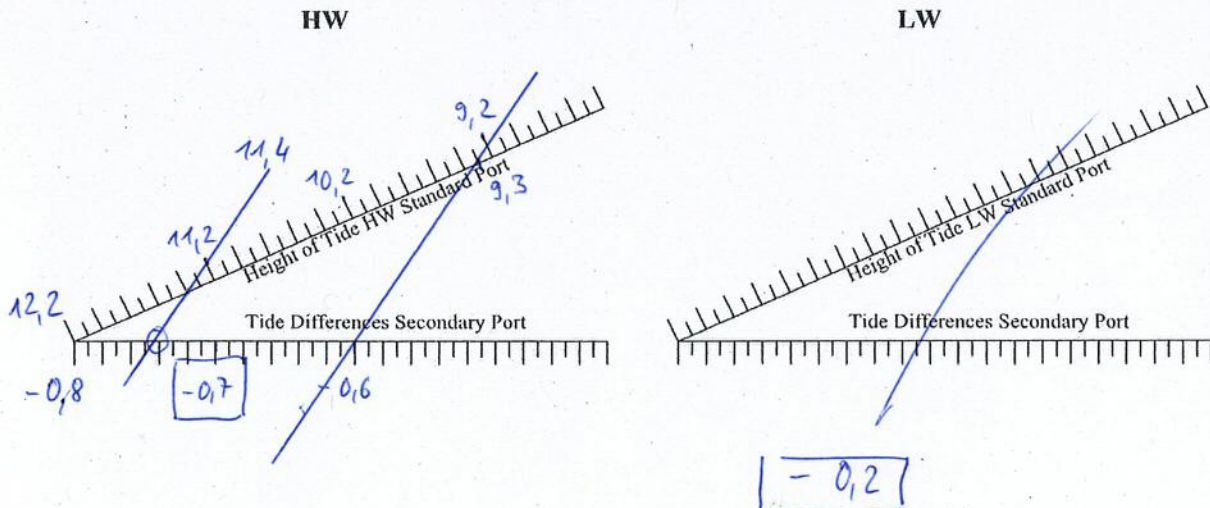
Standard Port Secondary Port	HW LW		LW HW		HW LW		LW HW	
	Time	m	Time	m	Time	m	Time	m
Standard Port	1535	2,3	2057	11,4	0349	2,3		
Differences		-0,2	-0004	-0,7		-0,2		
Time Difference ¹			+0100					
Port		2,1	2153	10,7		2,1		

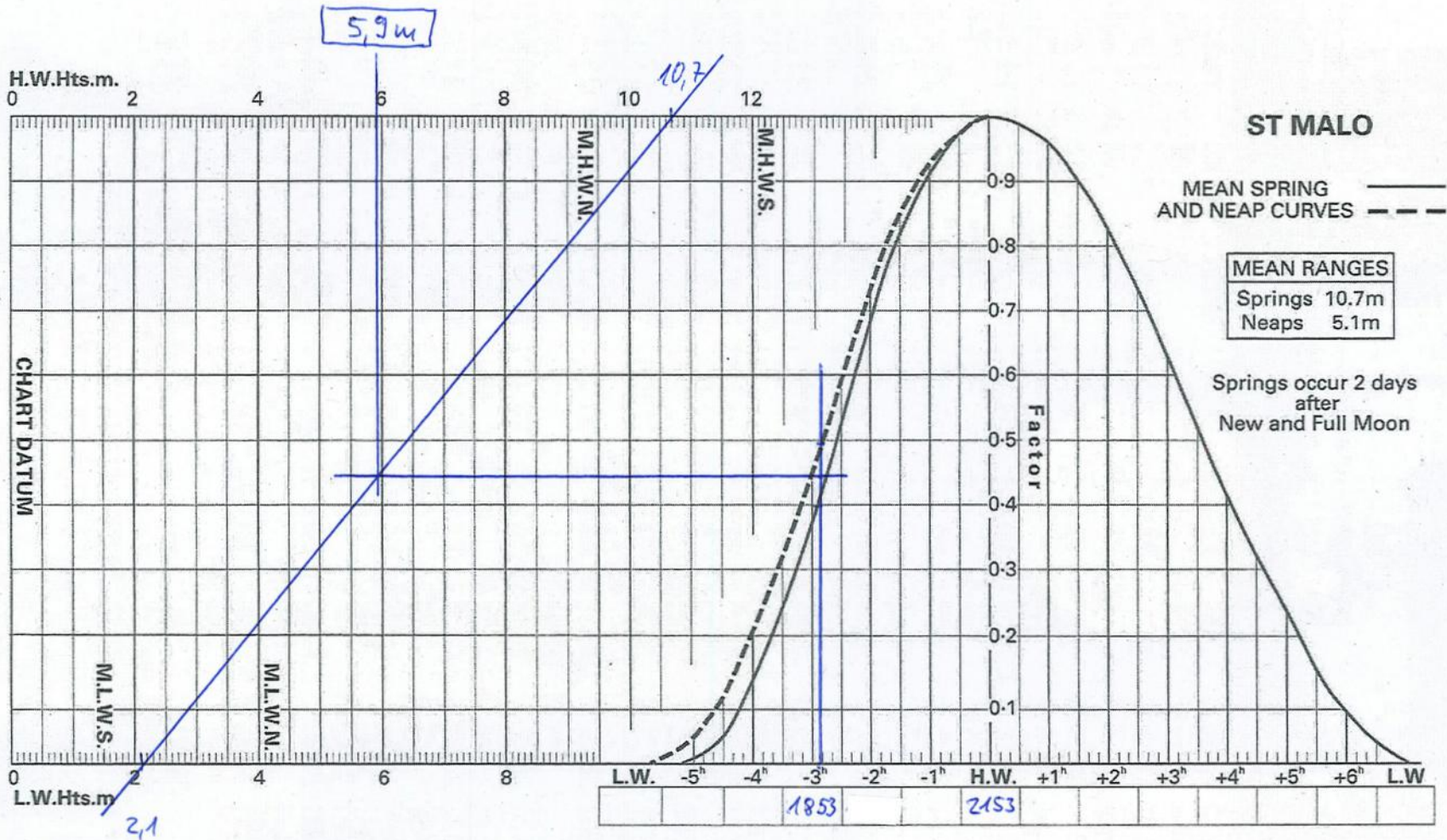
①

Zeitdifferenz am Secondary Port



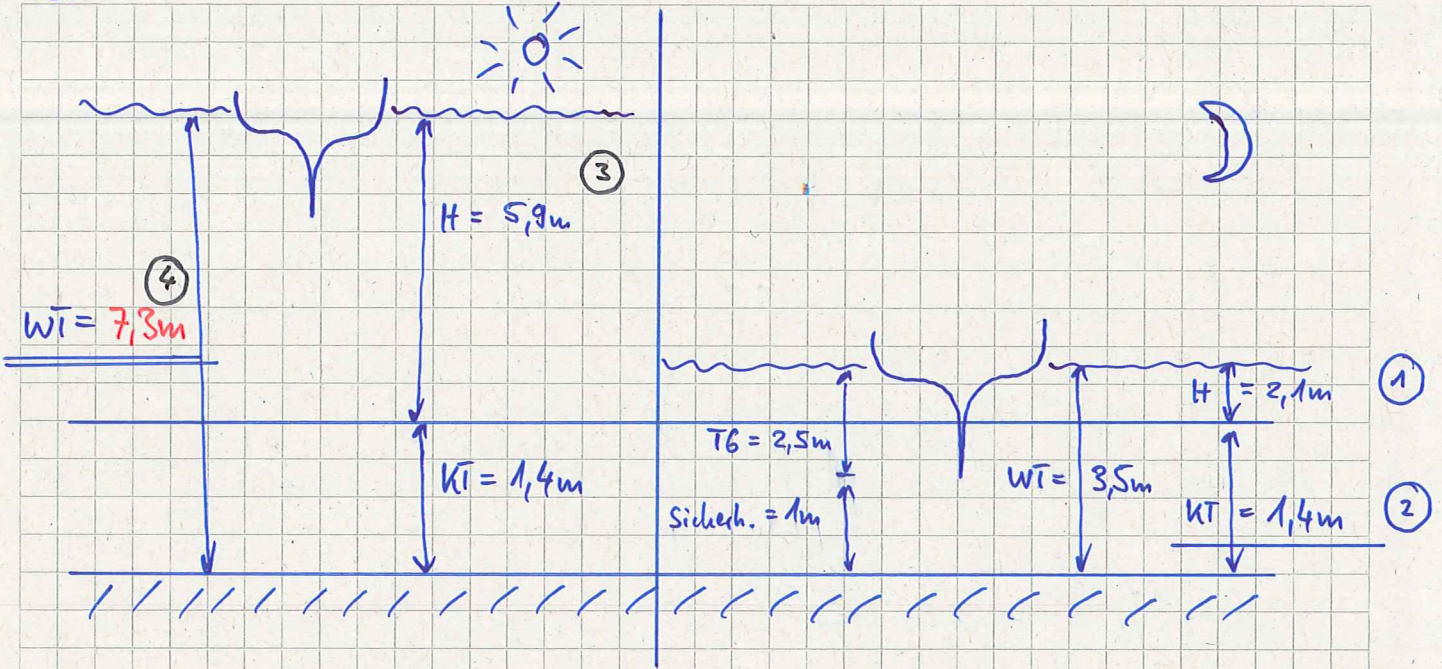
Höhendifferenz am Secondary Port





Beilagen

4



TIME ZONE -0100
(French Standard Time)
Subtract 1 hour for UT
 For French Summer Time add
ONE hour in non-shaded areas

FRANCE – ST MALO
LAT 48°38'N LONG 2°02'W

Dates in **RED** are **SPRINGS**
 Dates in **BLUE** are **NEAPS**

2016

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JANUARY		FEBRUARY		MARCH		APRIL	
Time m	Time m	Time m	Time m	Time m	Time m	Time m	Time m
1 0539 3.8 1109 9.9 F 1801 3.9 2337 9.5	16 0555 2.6 1124 11.0 SA 1823 2.7 2351 10.5	1 0610 4.3 1145 9.2 M 1834 4.5 O	16 0019 10.0 0717 3.7 TU 1257 9.6 1953 3.9	1 0531 3.9 1100 9.5 TU 1750 4.2 2322 9.2	16 0653 3.7 1232 9.4 W 1925 4.1	1 0648 4.6 1232 8.6 F 1923 4.9	16 0210 9.0 0912 4.4 SA 1509 9.0 2148 4.3
2 0617 4.3 1153 9.3 SA 1843 4.4 O	17 0644 3.2 1219 10.3 SU 1917 3.3 O	2 0018 8.8 0705 4.8 TU 1249 8.7 1938 4.9	17 0133 9.4 0834 4.1 W 1427 9.2 2116 4.1	2 0616 4.5 1148 8.9 W 1842 4.8 O	17 0104 9.2 0808 4.3 TH 1405 8.9 2051 4.5	2 0125 8.7 0818 4.6 SA 1426 8.7 2106 4.6	17 0334 9.3 1031 3.9 SU 1618 9.6 2257 3.7
3 0028 9.0 0709 4.7 SU 1253 8.9 1941 4.7	18 0051 10.0 0746 3.7 M 1328 9.8 2024 3.6	3 0142 8.6 0825 4.9 W 1424 8.6 2110 4.8	18 0307 9.3 1006 4.0 TH 1557 9.4 2243 3.8	3 0026 8.6 0723 4.9 TH 1317 8.4 2005 5.0	18 0244 9.0 0945 4.3 F 1542 9.2 2222 4.1	3 0308 9.1 0952 4.0 SU 1549 9.5 2230 3.8	18 0434 10.0 1130 3.3 M 1707 10.3 2350 3.1
4 0141 8.7 0820 4.9 M 1411 8.8 2100 4.7	19 0207 9.7 0903 3.8 TU 1451 9.7 2142 3.6	4 0315 8.8 0955 4.5 TH 1548 9.0 2233 4.3	19 0427 9.9 1126 3.4 F 1707 10.1 2353 3.1	4 0217 8.5 0902 4.7 F 1507 8.7 2148 4.6	19 0407 9.6 1107 3.6 SA 1648 9.9 2332 3.4	4 0419 10.1 1104 3.0 M 1651 10.5 2336 2.8	19 0521 10.6 1217 2.7 TU 1748 10.9
5 0301 8.9 0939 4.6 TU 1527 9.1 2215 4.3	20 0329 9.9 1025 3.5 W 1609 10.0 2259 3.3	5 0424 9.5 1105 3.8 F 1651 9.8 2335 3.5	20 0526 10.6 1227 2.7 SA 1758 10.8	5 0348 9.2 1029 4.0 SA 1622 9.5 2304 3.7	20 0506 10.3 1206 2.9 SU 1737 10.6	5 0516 11.1 1208 2.0 TU 1744 11.5	20 0035 2.6 0602 11.1 W 1258 2.4 1825 11.3
6 0405 9.5 1045 4.0 W 1628 9.6 2315 3.7	21 0440 10.4 1138 3.0 TH 1715 10.5	6 0518 10.4 1204 3.0 SA 1743 10.6	21 0048 2.5 0614 11.3 SU 1317 2.1 1842 11.3	6 0451 10.1 1135 3.0 SU 1720 10.5	21 0025 2.7 0552 11.0 M 1253 2.3 1818 11.2	6 0036 1.8 0607 12.1 W 1306 1.2 1833 12.3	21 0114 2.3 0639 11.4 TH 1335 2.1 1900 11.6
7 0457 10.1 1140 3.4 TH 1719 10.2	22 0006 2.7 0539 11.0 F 1240 2.4 1810 11.1	7 0031 2.7 0607 11.2 SU 1258 2.2 1831 11.3	22 0133 2.1 0656 11.7 M 1359 1.8 O 1921 11.7	7 0006 2.8 0544 11.1 M 1235 2.1 1810 11.4	22 0109 2.3 0632 11.5 TU 1333 2.0 1856 11.6	7 0132 1.0 0655 12.8 TH 1358 0.6 O 1918 12.9	22 0150 2.1 0713 11.6 F 1408 2.0 O 1932 11.7
8 0007 3.1 0543 10.8 F 1231 2.8 1805 10.8	23 0102 2.3 0629 11.5 SA 1332 2.0 1857 11.5	8 0123 2.0 0652 11.9 M 1350 1.5 O 1916 11.9	23 0212 1.8 0734 12.0 TU 1436 1.6 1957 11.9	8 0102 1.9 0632 12.0 TU 1330 1.3 1857 12.2	23 0147 1.9 0709 11.8 W 1409 1.8 O 1930 11.8	8 0222 0.5 0740 13.2 F 1446 0.2 2002 13.2	23 0222 2.0 0745 11.7 SA 1439 2.0 2001 11.8
9 0055 2.6 0627 11.3 SA 1318 2.2 1848 11.3	24 0150 1.9 0713 11.9 SU 1417 1.7 O 1940 11.8	9 0212 1.4 0736 12.5 TU 1438 1.0 1959 12.4	24 0247 1.6 0808 12.1 W 1508 1.6 2029 11.9	9 0155 1.1 0718 12.8 W 1421 0.6 O 1941 12.8	24 0221 1.8 0742 12.0 TH 1440 1.7 2001 11.9	9 0308 0.3 0824 13.3 SA 1529 0.3 2044 13.2	24 0252 2.0 0814 11.6 SU 1507 2.1 2029 11.7
10 0141 2.1 0708 11.8 SU 1405 1.8 O 1930 11.7	25 0231 1.7 0752 12.1 M 1456 1.6 2018 11.9	10 0259 1.0 0818 12.9 W 1524 0.7 2042 12.7	25 0318 1.7 0839 12.1 TH 1538 1.7 2058 11.8	10 0243 0.6 0802 13.2 TH 1507 0.3 2024 13.1	25 0251 1.7 0813 12.0 F 1509 1.8 2030 11.8	10 0350 0.5 0906 13.1 SU 1609 0.7 2124 12.8	25 0321 2.1 0843 11.5 M 1535 2.3 2057 11.4
11 0225 1.8 0749 12.1 M 1450 1.5 2012 12.0	26 0308 1.7 0829 12.1 TU 1531 1.6 2052 11.8	11 0342 0.8 0900 13.0 TH 1606 0.6 2123 12.7	26 0346 1.9 0908 11.8 F 1604 2.0 2126 11.5	11 0327 0.4 0844 13.4 F 1550 0.2 2105 13.1	26 0319 1.8 0841 11.8 SA 1535 2.0 2057 11.7	11 0429 1.0 0947 12.4 M 1646 1.4 2203 12.0	26 0349 2.3 0912 11.2 TU 1602 2.7 2126 11.1
12 0308 1.6 0830 12.3 TU 1533 1.3 2053 12.1	27 0341 1.8 0902 12.0 W 1603 1.9 2125 11.5	12 0423 0.9 0941 12.8 F 1645 1.0 2203 12.3	27 0411 2.2 0935 11.4 SA 1627 2.5 2152 11.0	12 0408 0.5 0925 13.1 SA 1629 0.6 2144 12.7	27 0345 2.1 0908 11.5 SU 1559 2.3 2123 11.3	12 0506 1.8 1028 11.5 TU 1723 2.4 2244 11.1	27 0418 2.7 0943 10.7 W 1631 3.1 2158 10.6
13 0351 1.5 0911 12.4 W 1615 1.4 2135 12.0	28 0412 2.1 0934 11.6 TH 1631 2.3 2155 11.1	13 0501 1.4 1022 12.2 SA 1724 1.6 2243 11.7	28 0435 2.7 1002 10.9 SU 1649 3.0 2218 10.5	13 0446 1.0 1005 12.5 SU 1706 1.4 2223 12.0	28 0410 2.5 0934 11.1 M 1622 2.8 2148 10.8	13 0546 2.7 1113 10.4 W 1806 3.4 2332 10.1	28 0452 3.2 1019 10.1 TH 1706 3.7 2237 10.0
14 0431 1.7 0953 12.1 TH 1656 1.6 2217 11.6	29 0439 2.6 1004 11.1 F 1657 2.8 2224 10.6	14 0540 2.1 1105 11.4 SU 1803 2.4 2326 10.8	29 0500 3.3 1028 10.2 M 1715 3.6 2245 9.9	14 0523 1.8 1045 11.5 M 1743 2.3 2304 11.0	29 0435 3.0 1001 10.5 TU 1649 3.4 2216 10.2	14 0634 3.7 1211 9.4 TH 1901 4.2 O	29 0533 3.7 1105 9.5 F 1753 4.2 2331 9.4
15 0512 2.1 1037 11.6 F 1738 2.1 2302 11.1	30 0505 3.2 1033 10.5 SA 1722 3.4 2254 10.0	15 0622 2.9 1153 10.5 M 1850 3.2 O	15 0603 2.8 1131 10.4 TU 1826 3.3 O 2353 10.0	15 0603 2.8 1131 10.4 TU 1826 3.3 O 2353 10.0	30 0506 3.6 1033 9.8 W 1722 4.0 2251 9.6	15 0038 9.3 0742 4.3 F 1336 8.9 2021 4.6	30 0629 4.1 1213 9.0 SA 1900 4.5 O
31 0533 3.8 1105 9.8 SU 1752 4.0 2328 9.4				31 0547 4.1 1117 9.2 TH 1810 4.5 O 2346 9.0			

Chart Datum: 6.29 metres below IGN Datum
 HAT is 13.6 metres above Chart Datum

TIDES

Location	Lat	Long	High Water	Low Water	MHWs	MHWN	MLWN	MLWS	
BELGIUM Time zone -0100									
Antwerpen	51 21N	4 14E	+0128	+0116	+0124	+1.0	+0.1	+0.1	
Blankenberge	51 19N	3 07E		-0007	-0002	+0.1	+0.1	-0.1	
ZEEBRUGGE									
Standard port	51 21N	3 12E	0300 and and 1500	0900 and and 2100	4.8	4.0	1.1	0.5	
Oostende	51 14N	2 56E	-0019	-0019	-0008	+0.4	+0.2	+0.2	
Nieuwpoort	51 09N	2 43E	-0031	-0031	-0010	+0.7	+0.5	+0.3	
FRANCE Time zone -0100									
DUNKERQUE									
Standard port	51 03N	2 22E	0200 and and 1400	0200 and and 2100	6.0	5.0	1.5	0.6	
Gravelines	51 01N	2 06E	-0010	-0010	-0005	+0.5	+0.3	+0.1	
Sandette Bank	51 15N	2 03E	-0010	-0015	-0010	-0.6	-0.2	-0.1	
Calais	50 58N	1 51E	-0020	-0030	-0005	+1.2	+0.9	+0.6	
Wissant	50 53N	1 40E	-0035	-0050	-0010	+2.0	+1.5	+0.9	
Boulogne	50 44N	1 35E	-0045	-0100	-0025	+2.8	+2.2	+1.1	
DIEPPE									
Standard port	49 56N	1 05E	0100 and and 1300	0700 and and 1900	9.3	7.4	2.5	0.8	
Berck	50 31N	1 35E	+0010	+0030	+0030	+0.2	+0.2	+0.3	
La Somme	50 24N	1 34E	+0005	+0025	+0030	+0.4	+0.5	+0.3	
Le Hourdel	50 13N	1 34E	+0020	No data	No data	+0.8	+0.6	No data	
St Valéry	50 11N	1 37E	+0035	No data	No data	+0.9	+0.7	No data	
Cayeux	50 11N	1 29E	0000	+0010	+0010	+0.3	+0.6	+0.4	
Le Tréport	50 04N	1 22E	+0005	+0005	+0015	+0.5	+0.2	+0.1	
St Valéry-en-Caux	49 52N	0 42E	-0005	-0015	-0015	-0.5	-0.4	-0.1	
Fécamp	49 46N	0 22E	-0015	-0010	-0040	-0.8	-0.5	+0.3	
Étretat	49 42N	0 12E	-0020	-0015	-0050	-1.1	-0.8	+0.3	
LE HAVRE									
Standard port	49 29N	0 07E	0000 and and 1200	0500 and and 1700	8.0	6.7	2.9	1.2	
Antifer (Le Havre)	49 39N	0 09E	+0025	+0015	+0005	+0.1	0.0	0.0	
La Seine									
Chenal du Rouen	49 28N	0 07E	0000	0000	+0015	0.0	-0.1	-0.1	
Honfleur	49 25N	0 14E	-0150	-0135	-0025	0.0	0.0	+0.4	
Tancarville	49 28N	0 28E	-0135	-0120	-0030	+0.1	+0.1	+0.3	
Quilleboeuf	49 28N	0 32E	-0055	-0110	-0105	-0.1	+0.1	+0.3	
Vatteville	49 29N	0 40E	+0015	-0040	-0240	-0.1	+0.1	+0.9	
Caudebec	49 32N	0 44E	-0005	-0030	-0300	-0.1	-0.1	+2.3	
Heurteville	49 27N	0 49E	+0055	+0005	+0330	-0.2	0.0	+2.6	
Duclair	49 29N	0 53E	+0210	+0145	+0350	-0.2	0.0	+3.2	
Rouen	49 27N	1 06E	+0305	+0240	+0505	-0.1	+0.2	+1.6	
Trouville	49 22N	0 05E	-0100	-0010	0000	+0.4	+0.3	+0.1	
Dives	49 18N	0 05W	-0100	-0010	0000	+0.3	+0.2	+0.1	
Oustréham	49 17N	0 15W	-0045	-0010	0000	-0.3	-0.3	-0.3	
Courseulles-sur-Mer	49 20N	0 27W	-0100	-0005	-0015	-0.6	-0.6	-0.3	
Arromanches	49 21N	0 37W	-0055	-0025	-0035	-0.6	-0.6	-0.2	
Port-en-Bessin	49 21N	0 45W	-0055	-0030	-0035	-0.7	-0.7	-0.2	
Alpha-Baie de Seine	49 49N	0 20W	+0030	+0020	-0005	-1.0	-0.9	-0.4	
CHERBOURG									
Standard port	49 39N	1 38W	0300 and and 1500	1000 and and 2200	6.4	5.1	2.6	1.1	
Rade de la Capelle	49 25N	1 05W	+0125	+0055	+0125	+0.7	+0.7	0.0	
Iles Saint Marcouf	49 30N	1 08W	+0130	+0055	+0110	+0.5	+0.5	0.0	
St Vaast-la-Hougue	49 34N	1 16W	+0115	+0045	+0120	+0.3	+0.3	-0.2	
Barfleur	49 40N	1 15W	+0115	+0050	+0045	+0.2	+0.1	+0.1	
Omerville	49 42N	1 50W	-0015	-0010	-0015	-0.1	-0.1	0.0	
Goury	49 43N	1 57W	-0100	-0040	-0120	+1.2	+1.3	+0.7	
CHANNEL ISLANDS Time zone UT									
ST HELIER									
Standard port	49 11N	2 07W	0300 and and 1500	0900 and and 2100	11.0	8.1	4.0	1.4	
Alderney, Braye	49 43N	2 12W	+0050	+0025	+0105	-4.8	-3.4	-1.5	
Sark, Meseline Pier	49 26N	2 21W	+0005	+0015	+0005	-2.1	-1.5	-0.6	
Guernsey, ST PETER PORT	49 27N	2 31W	Standard port (no Secondarys)						-0.3

TIDES

Location	Lat	Long	High Water	Low Water	MHWs	MHWN	MLWN	MLWS
Jersey								
St Catherine Bay	49 13N	2 01W	0000	+0010	0.0	-0.1	0.0	+0.1
Scorrier Bay	49 15N	2 05W	+0002	+0004	+0004	-0.3	-0.3	-0.1
Les Brehoux	49 17N	1 56W	+0005	+0009	+0011	-0.2	+0.1	-0.2
Les Minquiers	48 57N	2 08W	-0014	-0018	-0001	+0.5	+0.6	+0.1
FRANCE Time zone -0100								
ST MALO								
Standard port	48 38N	2 02W	0100 and and 1300	0800 and and 2000	12.2	9.3	4.2	1.5
Iles Ardennes	48 58N	1 52W	+0010	+0010	+0015	0.0	-0.1	0.0
Iles Chaufsey	48 52N	1 49W	+0005	+0005	+0015	+0.8	+0.7	+0.6
Diellette	49 33N	1 52W	+0035	+0035	+0030	-2.5	-1.9	-0.7
Carteret	49 22N	1 47W	+0040	+0020	+0015	-1.6	-1.2	-0.3
Portbail	49 18N	1 45W	+0030	+0025	+0025	-0.8	-0.6	-0.2
St Germain sur Ay								
Le Sénéquet	49 14N	1 36W	+0025	+0025	+0035	-0.7	-0.5	0.0
Regneville sur Mer	49 05N	1 40W	+0015	+0015	+0025	-0.3	+0.3	+0.1
Grainville	49 01N	1 33W	+0010	+0010	+0030	+0.5	+0.4	+0.2
Cancalle	48 50N	1 36W	+0010	+0005	+0015	+0.7	+0.4	+0.3
Ile des Hebihens								
St Cast	48 37N	2 11W	0000	0000	-0005	-0.2	-0.2	-0.1
Erguy	48 38N	2 15W	0000	0000	-0005	-0.2	-0.2	-0.1
Dahouët	48 38N	2 28W	0000	-0005	-0020	-0.8	-0.6	-0.2
Le Légué (Buoy)	48 35N	2 34W	0000	-0005	-0010	-0.8	-0.7	-0.2
	48 34N	2 41W	-0010	-0005	-0020	-0.8	-0.7	-0.2
Binic								
St Quay-Portrieux	48 36N	2 49W	-0005	-0005	-0015	-0.8	-0.6	-0.2
Palomol	48 38N	2 49W	-0010	-0030	-0010	-0.9	-0.9	-0.4
Ile de Bréhat	48 47N	3 02W	-0010	-0005	-0035	-1.4	-0.9	-0.4
Les Héaux de Bréhat	48 50N	3 00W	-0015	-0005	-0040	-1.6	-1.2	-0.5
	48 55N	3 05W	-0015	-0010	-0010	-2.3	-1.6	-0.6
Lézardrieux								
Port-Béni	48 47N	3 06W	-0020	-0015	-0045	-1.7	-1.3	-0.5
Tréguier	48 51N	3 10W	-0020	-0105	-0050	-2.4	-1.7	-0.6
Perros-Guirec	48 47N	3 13W	-0020	-0100	-0045	-2.3	-1.6	-0.6
Ploumanac'h	48 49N	3 28W	-0035	-0115	-0100	-2.8	-2.0	-0.7
	48 50N	3 29W	-0035	-0040	-0120	-2.9	-2.0	-0.7
BREST								
Standard port	48 23N	4 30W	0000 and and 1200	0600 and and 1800	7.0	5.5	2.7	1.1
Trébeurden	48 46N	3 35W	+0100	+0100	+0100	+2.2	+1.8	+0.8
Locquirec	48 42N	3 38W	+0100	+0125	+0100	+2.2	+1.8	+0.8
Anse de Prinel	48 43N	3 50W	+0100	+0110	+0100	+2.0	+1.6	+0.7
Chateau du Taureau (Moriaix)	48 41N	3 53W	+0055	+0105	+0115	+1.9	+1.6	+0.7
Roscoff	48 43N	3 58W	+0055	+0105	+0115	+1.9	+1.6	+0.7
Ile de Batz	48 44N	4 00W	+0045	+0100	+0105	+1.9	+1.5	+0.8
Brignogan	48 40N	4 19W	+0040	+0045	+0100	+1.4	+1.1	+0.5
L'Aber Wrach	48 36N	4 34W	+0030	+0030	+0040	+0.7	+0.6	+0.1
Aber Benoit								
Port-Sail	48 35N	4 37W	+0022	+0025	+0035	+0.9	+0.8	+0.3
L'Abbaye-ludut	48 34N	4 43W	+0015	+0020	+0025	+0.5	+0.4	0.0
Ouessant, Baie de Lampaul	48 28N	4 45W	+0010	+0010	+0020	+0.3	+0.2	-0.1
	48 27N	5 06W	+0010	+0010	+0005	-0.1	-0.1	-0.1
	48 24N	4 58W	+0015	+0010	+0020	+0.3	+0.3	+0.1
Le Conquet								
Le Trez Hir	48 22N	4 47W	0000	0000	+0005	-0.2	-0.2	-0.1
Camaret	48 21N	4 42W	-0005	-0015	-0010	-0.4	-0.4	-0.3
Morgat	48 17N	4 35W	-0010	-0010	-0015	-0.4	-0.4	-0.3
Douarnenez	48 13N	4 30W	-0005	-0010	-0020	-0.5	-0.4	-0.2
Ile de Sein	48 06N	4 19W	-0010	-0010	-0010	-0.4	-0.4	-0.2
Ans de Faunteun Aod	48 02N	4 51W	-0005	-0005	-0015	-0.9	-0.7	-0.4
Audierne	48 02N	4 42W	-0030	-0040	-0035	-1.4	-1.2	-0.6
Le Guilvinec	48 01N	4 33W	-0035	-0030	-0035	-1.8	-1.4	-0.7
Lesconil	47 48N	4 17W	-0010	-0025	-0025	-1.9	-1.5	-0.7
	47 48N	4 13W	-0010	-0030	-0030	-2.0	-1.5	-0.7
Port /Abbe River, Locudy								
Odier River	47 50N	4 10W	-0010	-0030	-0035	-2.1	-1.7	-0.9
Bénodet	47 53N	4 07W	-0010	-0025	-0030	-1.7	-1.4	-0.6
Corniguel	47 58N	4 06W	+0015	+0010	-0015	-2.1	-1.7	-1.1

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