

Tidal Streams

are listed below for the locations marked on this map.

Note that these numbers present some rough average, and may vary substantially with weather conditions.



Calculated times for High Water
at Dover are given by the file:
DOVER-TIDE.html

<https://ocean-navigation.de>

Tidal Streams: Channel between UK and France, and the eastern North-Sea - v.4

The tidal streams (or tidal currents) along the coast-lines in the Channel between UK and France and towards the north-sea follow the coast-lines approximately in south-west or north-east directions. Data position about 2 nm off the coast.

The numbers like "+59,99" accordingly mean a current going in northerly direction at speed of 5.9 knots at neap-tide and at 9.9 knots at spring tide, while "-41.73" means south-westerly direction, 7.3 knots at spring tide.

The stations begin at Brest and the Scilly-Isles in the south-west and go over Dover up north to the island of Sylt.

When entering the estuaries of big rivers, local informations are requested. A similar CAVEAT must be said about the sea-channels between the north-sea islands, in particular when large incoming waves hit on strong ebb-currents.

Reference Time: High Water in Dover, -5 hours before until +6 after HW Dover

A plus-sign means: current going about NORTH, minus-sign SOUTH along coastline

France-Belgium-Netherlands-Germany

Cherbourg HW (approx):	-2	-1	HW: -3.3h	+1	+2	+3	+4	+5	+6	-5	-4	-3
Dover HW :	-5	-4	-3	-2	-1	HW	+1	+2	+3	+4	+5	+6
Brest (N+/S-):	+25,52	+30,50	+26,38	+18,24	+09,18	slack	-18,42	-24,40	-22,41	-18,36	-16,31	slack
Paimpol (E+/W-):	+07,13	-01,03	-10,18	-15,26	-17,30	-16,28	-12,21	-04,07	+04,09	+16,28	+19,34	+17,31
Guernsey	+25,52	+14,30	slack	-05,11	-05,12	-06,12	-07,15	-13,30	-13,28	-08,10	+04,09	+10,24
Cap de la Hague	+30,53	+59,99	+53,88	+34,57	+16,28	-11,25	-35,51	-39,57	-41,73	-40,60	-20,30	+19,37
Barfleur	+18,34	+29,51	+21,38	+11,20	slack	-13,23	-18,36	-27,48	-24,41	-17,30	-10,20	+15,30
Dieppe	slack	+07,12	+14,27	+11,18	+08,12	+03,04	-01,01	-03,10	-07,14	-10,16	-10,14	-07,11
Cap Gris Nez (N+/S-):	-18,33	-21,37	-16,28	-05,09	+06,10	+16,28	+22,39	+18,33	+11,20	+04,07	-03,05	-10,18
Oostende	-13,24	-12,21	-08,12	-07,13	slack	+04,07	+13,24	+12,21	+08,15	+08,15	+04,07	-09,16
Vlissingen*	-13,24	-12,21	-09,17	-08,15	-06,10	+07,12	+13,24	+12,21	+08,16	+08,15	+07,13	-09,16
Hoek v Holland	-02,03	-07,12	-06,11	-07,12	-09,16	-04,07	slack	+04,07	+08,15	+07,13	+07,13	+04,07
Den Helder	+04,08	slack	-03,06	-07,12	-08,15	-06,12	-06,10	slack	+04,08	+04,07	+04,08	+08,17
Borkum (E+/W-):	+04,08	+05,10	+05,10	+04,08	slack	slack	-03,06	-04,08	-05,09	-04,07	-02,05	slack
Cuxhaven* (E+/W-):	-07,15	+07,14	+06,12	+08,15	+04,08	+02,05	-03,06	-04,08	-05,09	-07,13	-11,22	-11,22
Sylt (N+/S-):	-01,03	-03,06	-04,08	-06,11	-03,06	slack	slack	+02,05	+04,06	+05,10	+05,10	+04,07

* (outside rivers estuary)

UK south coast

Dover HW :	-5	-4	-3	-2	-1	HW	+1	+2	+3	+4	+5	+6
Scilly Isles (N+/S-):	+04,07	-05,10	-05,10	-05,10	-07,14	-05,11	-04,08	-05,11	+07,15	+08,15	+08,17	+06,11
Lizard Point	+10,20	+06,12	+02,03	-05,10	-10,20	-10,21	-08,16	-05,09	-04,10	+03,06	+06,13	+10,21
Plymouth	+05,11	+05,10	+02,04	slack	-03,07	-06,12	-07,14	-06,13	-06,13	slack	+03,06	+06,12
Bill of Portland *	+12,24	+17,33	+18,37	+14,28	+06,12	-02,05	-09,19	-16,32	-18,36	-13,27	-06,11	+05,10
Needles Channel	+19,39	+18,35	+17,35	+17,25	-04,09	-14,28	-20,40	-22,44	-22,44	-11,22	+04,08	+16,33
Isle of Wight (E+/W-):	+14,28	+21,42	+23,46	+18,36	+09,18	-02,04	-13,26	-21,43	-21,42	-17,34	-09,18	+02,04
Beachy Head	+03,05	+11,19	+15,26	+14,24	+08,14	+01,02	-04,08	-07,13	-10,20	-11,20	-10,18	-07,13
Dover (N+/S-):	-12,21	-12,21	-11,19	-07,13	+03,06	+22,39	+13,23	+13,23	+08,14	+03,06	slack	-07,13
Margate	-14,26	-16,29	-15,26	-08,14	slack	+13,24	+17,30	+16,28	+14,25	+15,27	slack	-10,18
Lowestoft	-13,23	-19,34	-16,29	-13,24	-07,12	slack	+07,13	+16,28	+14,25	+15,27	+10,18	+04,08

* (outside the race)

Usage: Check whether there is neap (half moon) or spring-tide (full moon or new moon).

Spring-tide occurs a few days later than full/new moon: about 1 day in England and France, 2 days on the German north-sea coast.

After clearing this up, check time relative to Dover HW, see e.g.: **DOVER-TIDE.html** (this WEB-site)

Finally interpolate between the Tide-stations. (Cherbourg HW occurs about 3 hours 20 min before Dover HW).

Note that these data are some averages, while actual values can differ substantially!

Always use the latest official information, and even then keep your eyes open on weather conditions etc.

There is NO WARRANTY whatsoever!

WXTIDE seems to agree within about +/- 5 min with official Dover-HW-predictions for 2023, occasionally about +/-15 min.

(Stream-data partly taken from different sources between 2005 and 2023, e.g. REEDS almanac.

See also: The Admiralty Tidal Stream Atlas 4-th Edition, NP250, 1992.

And for the coast of France (2000): <https://diffusion.shom.fr/marees/courants-de-maree.html>)