

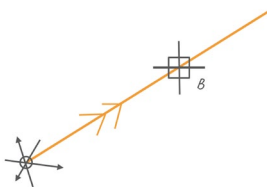
A course to steer (CTS) is a calculation to pre-emptively compensate for the expected effects of the tide (and potentially wind). It will ensure we travel the shortest route to our destination.

1. Plot our starting position and destination.

This is the point from which we want to start our given CTS and the endpoint we are aiming for.



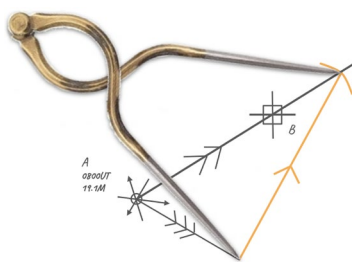
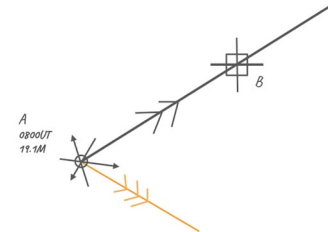
2. Draw our ground track.



This is a line from our starting point to and continuing past our endpoint, even if it goes on to the land.

3. Apply our tidal vector

With a CTS we add our tidal vector from our starting position. We plot the tide over a given time it will likely take us to sail the passage.



4. Draw in our water track

We draw our water track by measuring the distance we will have travelled for the time we plotted our tidal vector. We do this with the dividers and then plot the distance from the end of our tidal vector to where the distance travelled crosses our ground track line.

5. Measure our CTS

The bearing of the water track line is the bearing of our CTS. We can then adjust for leeway as required.

