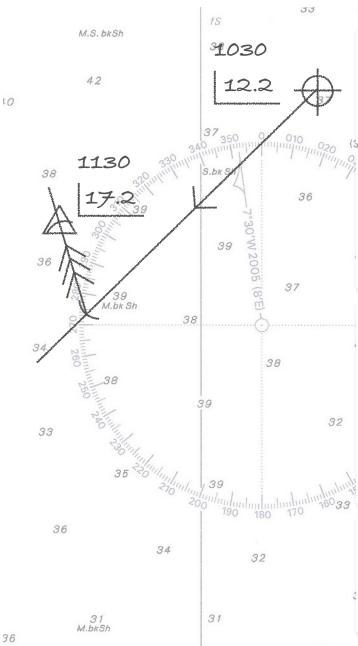


ESTIMATED POSITION

Intro: Estimated Position is the principal of adding tidal information to a Dead Reckoning and providing an additional level of certainty to the fix. Navigators can become more confident in the position they obtain. Estimated Positions can be done after the event, i.e. once the boat has made the passage or before the event, known as a Projected EP. Both are calculated the same way, but one is carried out before and one after the period of travel.

To perform an Estimated Position, the navigator needs to know:

- 1) The course the boat has been steering
- 2) How far the boat has travelled through the water
- 3) The tidal stream during the same period of time



Step One:

Perform a Dead Reckoning using the course steered and distance travelled information. (See separate crib sheet for a step-by-step)

Step Two:

Obtain the relevant tidal information for the date and time travelled. You can use either Tidal Diamond panels on the chart or the Tidal Atlas (found in the RYA Training Almanac)

Step Three:

Draw a tidal vector representing the tidal stream bearing running from the DR position and measure the amount of tide that has flowed during the time of travel. This Gives you your estimated position. (See separate crib sheet for working out the appropriate tidal stream information)

Step Four:

Last but not least, mark the navigations lines with the correct symbols to enable anyone to read the working on the chart.

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