Estimated Position Process

- 1. Plot your initial fix and CHECK it. Add the START time and Log reading
- Find your True boat Heading:
 Compass Course +/- Deviation = Magnetic Course +/- Variation = True Course
 Then apply leeway if present to the True Heading, in the direction of the wind
- 3. Find your distance run from the final log reading minus the initial log reading, OR the Boat Speed for one hour.
- 4. Draw water track (1 arrow) from fix using the True Heading and distance run. This is the Dead Reckoning Position (with no effect of tide)
- Determine tide set and drift for the hour of the passage:
 Look up Tide Diamond or Tide Atlas for direction and speed of tide for the hour of the passage +/- High Water springs or neaps?

You may need to interpolate the tide speed if between Springs and Neaps - see Interpolation

- 1. Write down time of High Water for Standard Port (Victoria on RYA charts), add the DST hour if necessary. Find Range Springs or neaps?
- 2. Add and subtract 30 mins to give start and finish of HW Hour.
- 3. Step forward or back till the passage time ENDS to find time of passage relative to HW



- 6. Plot tide vector from the DR position to the Estimated Position EP (3 arrows)
- 7. Speed Over Ground SOG = Distance from initial Fix to EP
- 8. Course Over Ground = Bearing Fix to EP ($^{\circ}$ T)

