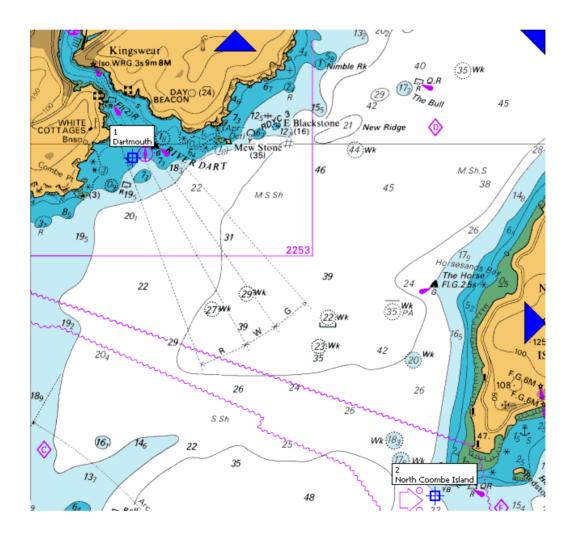


GPS at Level 2: To what level should it be taught?

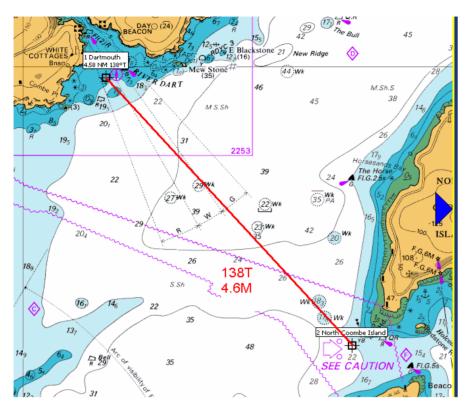
At Level 2 we really only want to introduce people to GPS and its capabilities. For a coastal Level 2 course the level that they require would be along the lines of:

- 1) Explain the basics of a waypoint i.e. a position on the Earth's surface expressed in Lat / Long.
- 2) Mark two on a chart, preferably one of your own operating area

Read off their Lat and Long - in this case Dartmouth 50°19'.89N $\,004^\circ\,33'.49W$ and North Coombe Island 50°16'.49N $\,004^\circ28'.74W$

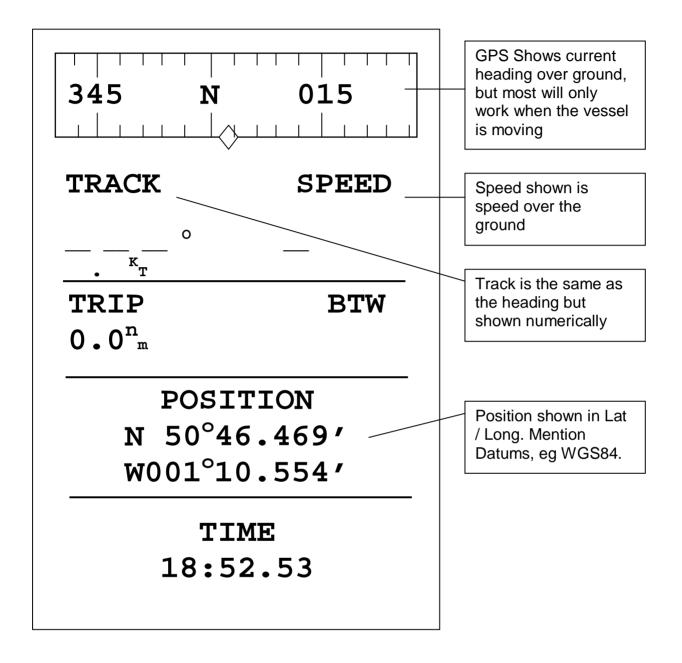


3) Now join the 2 waypoints, measure the true bearing and the distance - in this case 138°T 4.6M



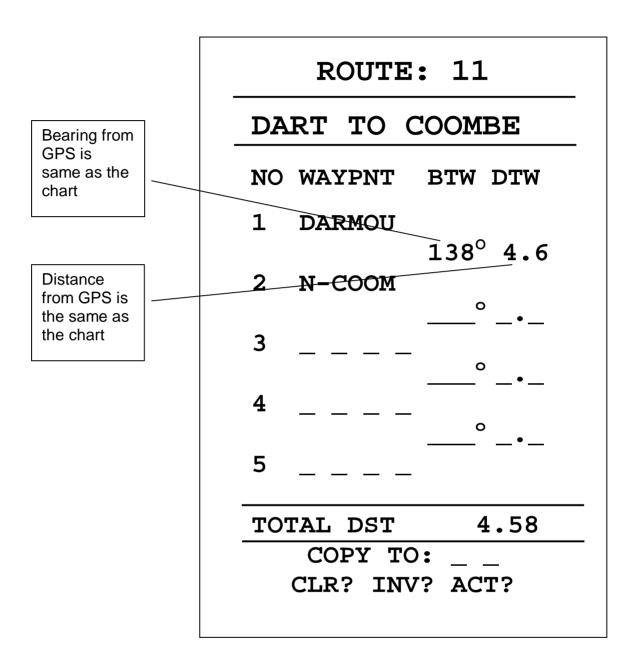
4) Quick explanation of where GPS gets its position information from (spend only 2 minutes maximum on this)





5) Show the GPS screen and point out the very basics i.e. Lat/Long etc.

- 6) Now put the waypoints into your GPS and make a route between them.
- 7) Now compare the two bearings and distances from the chart to the GPS they should be the same.



The following would normally be introduced on the Intermediate course but could be covered at Level 2 if your students are doing particularly well.

- BTW The bearing of one waypoint from another (usually the next one on your route).
- DTW The distance of one waypoint from another (usually the next one on your route).
- COG Course over the ground after tide and leeway
- SOG Speed over the ground after tidal influence
- XTE Cross track error how much you have deviated from the direct route when travelling between two waypoints.