<sp>

30 years of experience teaching Navigation and Shorebased Courses

SailCork NavNotes©

Plotting a Fix.

1. Convert bearings from Magnetic to True

2. Identify each of the objects on the chart that bearings are taken to.

3. Plot the bearings i.e Draw a line from where you think you are through the object the bearing is taken towards.

4. The three lines should cross exactly with an accurate bearing. Draw a small circle around this point -it is a fix. Write the time next to it

Naming a position in terms of bearing and distance.

1. Remember the bearing is **from** the object.

2. Plot the direction from the object towards our position.

3. Measure the distance.

4. Write down the position as follows: Bearing in degrees(T) from Name of object . Distance in Miles

Naming a position in terms of latitude and longitude:

1. Always plot the latitude first and the longitude second.

2. Use the correct symbols for degrees and minutes

3. Make sure you check on the side of the chart to ensure that you are using the correct units ie degrees or minutes,

4. You can use dividers or a rule to get your results

Plotting an EP

1. Correct your course(s) to true

2 Add or subtract leeway

3. Get the distance (by subtracting one log reading from the other)

4. Plot in the course for the distance- This is the DR position

5. Next work out the tidal vector(s)

6. Add on tidal vector(s)- This is the EP

Getting a course to steer:

1. Find starting point and destination

2. Draw line from starting point thro destination

3. Measure distance from start to finish

4. Check speed and work out approx journey time

5. Find out tides for journey time

6. Draw tidal vector(s) for journey time from start point

7. Measure speed (distance for journey)

8. Put one end of the dividers where tidal vector ends and draw an arc to the line that goes from the start thro the finish.

9. Draw line from end of tidal vector joining the arc. - This is course to steer

Time for journey:

$$\frac{\text{Distance required} \times \text{time unit used}}{\text{Distance actually travelled}}$$