

ORCV Navigation module homework exercise

Scenario

You are planning a trip across Port Philip Bay from Sandringham Yacht Club to Queenscliff. Your friends have told you that the best way to get there is via the West Channel. You are starting to do your Navigation planning.

Instructions

You can use whatever tools are at your disposal. You may have paper charts, in particular Port Phillip Nautical Chart AUS 143). You may have access to a boat with a Chartplotter. You may have access to a handheld GPS device with plotting functions. You may be lucky enough to have a sophisticated software tool like Expedition on your Laptop. You may own a tablet or mobile device with the Navionics app.

Or you may have none of those, in which case you have two options:

1. Purchase/subscribe to the Navionics app
2. Use the "Navionics Chartviewer" via the Internet which is freely available but limited in functionality (Google those two words to find it). You will need to supplement it with Google Earth or other resource to get Latitude/Longitude.

Q1 What is the Latitude and Longitude (in Degrees : Minutes.Decimal Minutes) of:

Tip: If you have the Navionics app tap on a location and then the ? icon

Tip: If you don't, try to find them using Google Earth then look for Lat/Long of your mouse cursor in the footer

1. Sandringham Yacht Club (use the Starboard marker at the end of the breakwater)
2. The West Channel Pile

Q2 What is the bearing (True) from Sandringham Yacht Club to West Channel Pile ?

Tip: If you have Navionics app or Chartviewer use the caliper tool

Q3 What is the bearing (Magnetic) from Sandringham Yacht Club to West Channel Pile ?

Tip: Magnetic variation is 12 degrees (approx) in that location

Q4 What is the distance (Nm) from Sandringham Yacht Club to West Channel Pile ?

Tip: If you have the Navionics app or Chartviewer use the caliper tool

Q5 Are there any hazards along the way to be careful about ?

Tip: If you have Navionics app or Chartviewer zoom in along the path

Q6 What is your plan for navigating the West Channel to get to Queenscliff ?

Tip: If you have Navionics app or Chartviewer zoom in along the path