

SARCC NAV EX 3 - PLOTTING MAGNETIC BEARINGS:

Task:

To find the LKP from a vessel by plotting its reports of the bearings it sights.

This exercise requires an understanding of compass error. First view the lesson:
[Presentation- PMSRG CD Index>Rad Op. Lessons> Elementary Navigation >“Plotting”](#)

Motorboat simulator rescue navigational exercises No1- Part Two

Plot a position on Chart Aus 811 from the reported information, and use the simulator (use *Saved Situation Port northeast*) to find the following casualties.

Plan your C.C.T.S to the casualty from your plotted position and calculate the E.T.A. using the maximum speed for the conditions encountered and selected rescue vessel. Check the accuracy of your plot by using the Motorboat simulator.

Scenario 7:

Trawler broken down at: Position _____
Tacking Point (199°M)
Hastings River (234°M)
Mt Cairncross (270°M)
Cliffy Peak (337°M) Sounding 40 mtrs

TCTS _____°T CCTS _____°C Distance ____NM ETA + __hrs__mins

Scenario 8:

Green yacht broken down off Port Macquarie: Position _____
Transit Hill (198°M)
Tacking Point (177°M)
Mt Cairncross (278°M)
Cliffy Peak (355°M) Sounding 22 mtrs

TCTS _____°T CCTS _____°C Distance ____NM ETA + __hrs__mins

Scenario 9:

Green yacht requires medical assistance: Position _____
Transit Hill (240°M)
Tacking Point (216°M)
Knobbies Hd. (268°M)
Hastings River (289°M) Sounding 31 mtrs

TCTS _____°T CCTS _____°C Distance ____NM ETA + __hrs__mins

Scenario 10:

Yellow buoy reported adrift at: Position _____
 Clifty Peak (317°M)
 Pt Plomer. (254°M)
 Green Islet (335°M) Sounding 28 mtrs

TCTS _____°T CCTS _____°C Distance ____NM ETA + __hrs__mins

Scenario 11:

Blue yacht driving onto beach north shore: Position _____
 Bago (225°M)
 Clifty Peak (005°M)
 Mt Cairncross (267°M) Sounding 2.6 mtrs

TCTS _____°T CCTS _____°C Distance ____NM ETA + __hrs__mins

Scenario 12:

12 metre trawler needs fuel (in Barries Bay): Position _____
 Green Islet (352°M)
 Mt Cairncross (250°M) Sounding 5.4 mtrs

TCTS _____°T CCTS _____°C Distance ____NM ETA + __hrs__mins

Scenario 13:

Blue yacht, transit of Tacking Pt/Transit Hill: Position _____
 Tacking Point (293°M)
 Bird Rock (318°M)
 Clifty Peak (346°M) Sounding 40 mtrs

TCTS _____°T CCTS _____°C Distance ____NM ETA + __hrs__mins

Scenario 14:

Sailing dingy adrift at: Position _____
 Port Macquarie (203°M)
 Clifty Peak (327°M) Sounding 32 mtrs

TCTS _____°T CCTS _____°C Distance ____NM ETA + __hrs__mins

Training resources:

Workbook- "Coastal navigation".
 Answers- Motorboat simulator rescue navigational exercises No1- Part 2
 Presentation- CD Index>Rad Op. Lessons> Elementary Navigation >"Plotting"
 Motorboat Sim.- Port Scenery>Situation> Port northeast *or* Port southerly.