

Axe Yacht Club

RYA Yachtmaster Shorebased Course

Chartwork Revision Examples – Fixing Position and Estimated Position

Required: RYA 3 TAN	Take: Variation = 6°W Deviation from the TAN
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Q1. The following is an extract from a yacht's log:

Time	Log	C'se	Wind	L'way	Narrative
2240	36.5	180C	W3	0	Outer Stack Lt* (Fl (4) 12s) just visible on the horizon on a bearing of 156M.

* 45° 40.2'N / 006° 13.9W

Assuming that the height of tide at Hamilton is 5.8m and your height of eye in the cockpit is 2m, fix the vessel's position at 2240.

Q2. The following is an extract from a yacht's log.

Wednesday 24 July

Times are in SPDST.

Time	Log	C'se	Wind	L'way	Narrative
1653	53.2	041C	NNW4	5°	GPS Fix 45° 38.3'N / 006° 23.0'W
1753	61.4	041C	NNW4	5°	No GPS signal.

- Find the EP at 1753. Use $\langle \rangle$ M.
- What is the vessel's COG and SOG between 1653 and 1753 SPDST?
- At what time was the vessel due west of the Outer Robens Lt?

Answers

Q1 *Fix 45° 49.5'N / 006° 21.5'W*

Q2 *24 July HW Victoria =>1023UT 5.2/1.1m => Range = 4.1m*

1653 SPDST (1453UT) to 1753 SPDST (1553 UT) = HW+5

<>M HW+5 351° 2.4Sp / 1.3Np => Int 2.1 knots

a. EP = 45° 46.6'N / 006° 15.9'W

b. COG = 031T, SOG = 9.72 knots

c. Outer Robens Lt on a bearing of 090T. Distance along COG = 6.1nm. Time = (6.1 ÷ 9.7) × 60 = 38 mins. (1731 SPDST)