

Study Guide 4 Key

Geographic Ranges

1. How far is that light on the horizon:

- Standing on Imagine, your height of eye is about 10 feet
- At what range are you likely to see Anacapa Light?

19.5 interpolated value for Anacapa Light

3.7 from Imagine's deck

23.2 nm if visibility is greater than 10 nm. If vis is 10, then 20nm.

Note: if you're your answers are within a half mile, 1 knot and 15 degrees, you're in the ballpark

2. Running Fix – Chart TR 1210

- Enroute from The Harbor (SW corner of chart) to Or W“A” buoy, NE of The Harbor
- Speed 5 kts.
- Depart 0815 065 PSC
- 0830: House at Clay Head bears 320 M
- 0930 Same house bears 270 M

What is your position ? __N 41-14.3, W 071-26.3

3. Based on the last fix, we drifted off our track

- What was the SET 139
- What was the DRIFT 0.4 knots ($.5 \cdot 60 / 1 + 15$)

4. We get a GPS fix that confirms the running fix

- Using the Set and Drift just calculated, what is the heading to go from the GPS fix to the buoy?

046T/062M

start your DR at the Light as you leave the harbor.

In order to figure out the heading to that point and the boat speed, extend your track line past the check point 5 miles or so. That way you'll be able to scribe your 5kt arc.

- What is the ETE to the buoy?
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Boats speed 5.0, 3.0 nm 20.4min