

LEGEND: Blue = information provided.
Black = calculated values.

Red = table values, etc.
Green = ANSWER

Terrestrial Observations

Chart Plot - Eastern Long Island - Operational Level

USCG 15910-NP-5

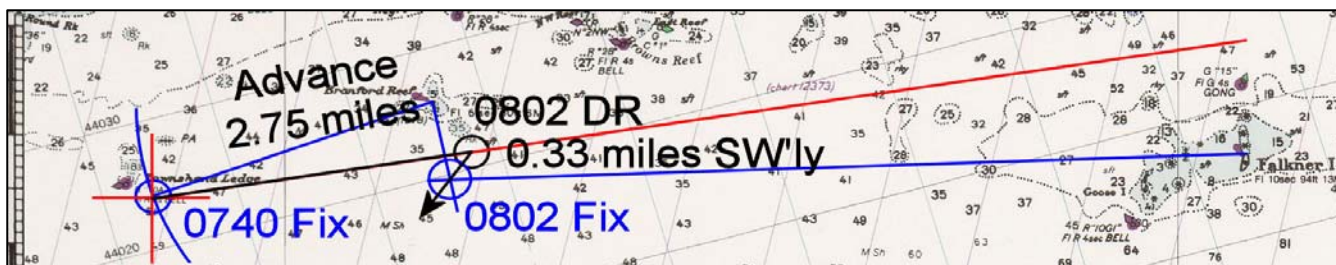
STEPS

5) At 0802, Branford Reef Light bears 348° T at 0.75 mile, and the north point of Falkner Island bears 088° T at 6.7 miles. What were the set and drift since 0740?

SOLUTION:

Given:

Plot your 0802 Fix. Advance your 0740 position to your 0802 DR. Determine your set and drift. MAKE SURE you plot your line from the NORTH point of Falkner Island!



From your 0740 fix determine your 0802 DR position.

The speed the engines were turning was 7.5 knots. From 0740 to 0802 is 22 minutes.

In 22 minutes you should have made (7.5 knots x 22/60 minutes) or 2.75 miles

This is the distance from your 0740 fix to your 0802 DR position. Plot it.

Measure your distance from your 0802 DR position to your 0802 Fix.

You should get about 0.3 miles. Remember, this was in 22 minutes.

Distance = Speed x Time

Speed = $\frac{\text{Distance}}{\text{Time}}$

Speed = $\frac{0.33 \text{ miles}}{22/60 \text{ minutes}}$

Drift = 0.90 kts.

Measure the direction of set from your 0802 DR position to your 0802 Fix.

The direction is obviously SW'ly. Look at your choices of distracters.

LEGEND: **Blue = information provided.**
 Black = calculated values.

Red = table values, etc.
Green = ANSWER

Set = 225° T Drift = 0.90 kts.

Select the closest answer.

- A) Set 040° T, drift .3 knot**
- B) Set 220° T, drift .9 knot** ← **ANSWER**
- C) Set 220° T, drift .3 knot**
- D) You are making good your intended course and speed.**