

Boston Sailing Center

Coastal Navigation

Problem Set 3

1. Leaving the Harbor of Refuge at Point Judith, you pass close to R "2" Fl 10 sec, south of Point Judith, at 0900. The wind is from the east, and you are close hauled, steering a course of 150 degrees at 5 knots.

Fifteen minutes later, you get a bearing back to R"2" of 335. What is your leeway?

Assuming nothing changes, how close will you pass to the White and Orange "A" bell on this tack?

If your boat tacks through 90 degrees relative to the True Wind, at what time should you tack to fetch the BW "SR" Mo(A) buoy at the mouth of the Sakonnet River, allowing for the same leeway on starboard tack that you calculated above on port tack?

2. Being a careful navigator, you put a dot with a square on the chart, marking where you tacked and noting the time. Then you sail on starboard tack, on the course determined above, at 5 knots. Plot your EP an hour after you tacked.

3. The wind shifts to the North. From the EP above, plot a series of courses that will take you into the Pond in Cuttyhunk Harbor. Describe each course with at least a compass heading and an object towards which you will sail. Imagine you are giving instructions to a friend at the wheel. The boat draws 6 feet.

4. Approaching the entrance to Cuttyhunk, you discover that R N "4" marking Pease Ledge is missing. Plot a Danger Bearing (or two...) that will keep you clear of the Ledge.

5. It's 5 pm on the 8th of July. How much water is there above (below) the charted depth?

Suggested reading in *Coastal Navigation*: chapters 6 & 12.