

# ***Boston Sailing Center***

## **Coastal Navigation**

### **Problem Set 4**

1. Having spent the night in Cuttyhunk, you plan to sail through the Cape Cod Canal (notorious for its powerful currents) on July 17 to arrive at the Sandwich Boat Basin in time for dinner ashore. What time should you leave Cuttyhunk? Your boat makes six knots through the water and currents in Buzzards Bay are negligible.

Are the currents in Buzzards Bay in fact negligible at the time of your passage?

2. Leaving Cuttyhunk Pond you cruise along the scenic north shore of the Elizabeth Islands on your way to the Canal. What Danger Bearing on Red Nun "8" marking Weepecket Rock will keep you clear of the Weepecket Islands?

Returning from a fall cruise to Martha's Vineyard, you are planning to sail from Menemsha to Quicks Hole on September 10.

3. At 10:00 am you pass BELL "1" just outside the Menemsha harbor entrance channel, headed for G "1" Fl G 4 sec at the southwest corner of Quicks Hole.

- a.) What is the actual compass course?
- b.) What is the average direction and velocity of current over your course?
- c.) If you steer the course uncorrected and make 5 knots through the water, what course and speed will you actually make good?
- d.) Where will you end up?

4. What heading should you steer to get to G "1" at Quicks Hole?

Suggested reading: *Coastal Navigation*: chapters 7 & 8; Appendix pp 114, 115.