

# ***Boston Sailing Center***

## **Coastal Navigation**

### **Problem Set 2**

Leaving Newport for your major cruise of the season, you head towards Point Judith en route to a series of exotic ports to the west. Plot a course that will give you adequate opportunities to fix your position along the way.

1. Describe the aids to navigation that you should see close at hand along your route.
2. What ranges might you use to help affirm your position?
3. An hour after clearing Castle Hill, you obtain the following bearings:

Lighthouse on Beavertail Point -- 040  
Brenton Reef Tower --104

What course should you now steer towards Pt. Judith?  
Describe Pt. Judith Light. How far are you from it?

4. You are somewhere off the Point as night falls, and you begin to think of alternatives to heading out to sea. At what distance should you be able to see Pt. Judith light?

Wisely, you take a bearing on the light. The bearing compass reads 317, while your depth sounder reads 74 feet.

Assume it's low tide. What is your Lat/Lon?

5. Now assume you simultaneously obtained a bearing on the buoy about 1.7 nm south of Point Judith (R "2" Fl 10 sec Whistle). The bearing is 249°. Plot this to get a three-line fix of bearing, bearing, depth contour. How does this change your understanding of the fix you got in Question 4?

Suggested reading: *Coastal Navigation* Chapters 4, 9 & 10 (pp 58-63)