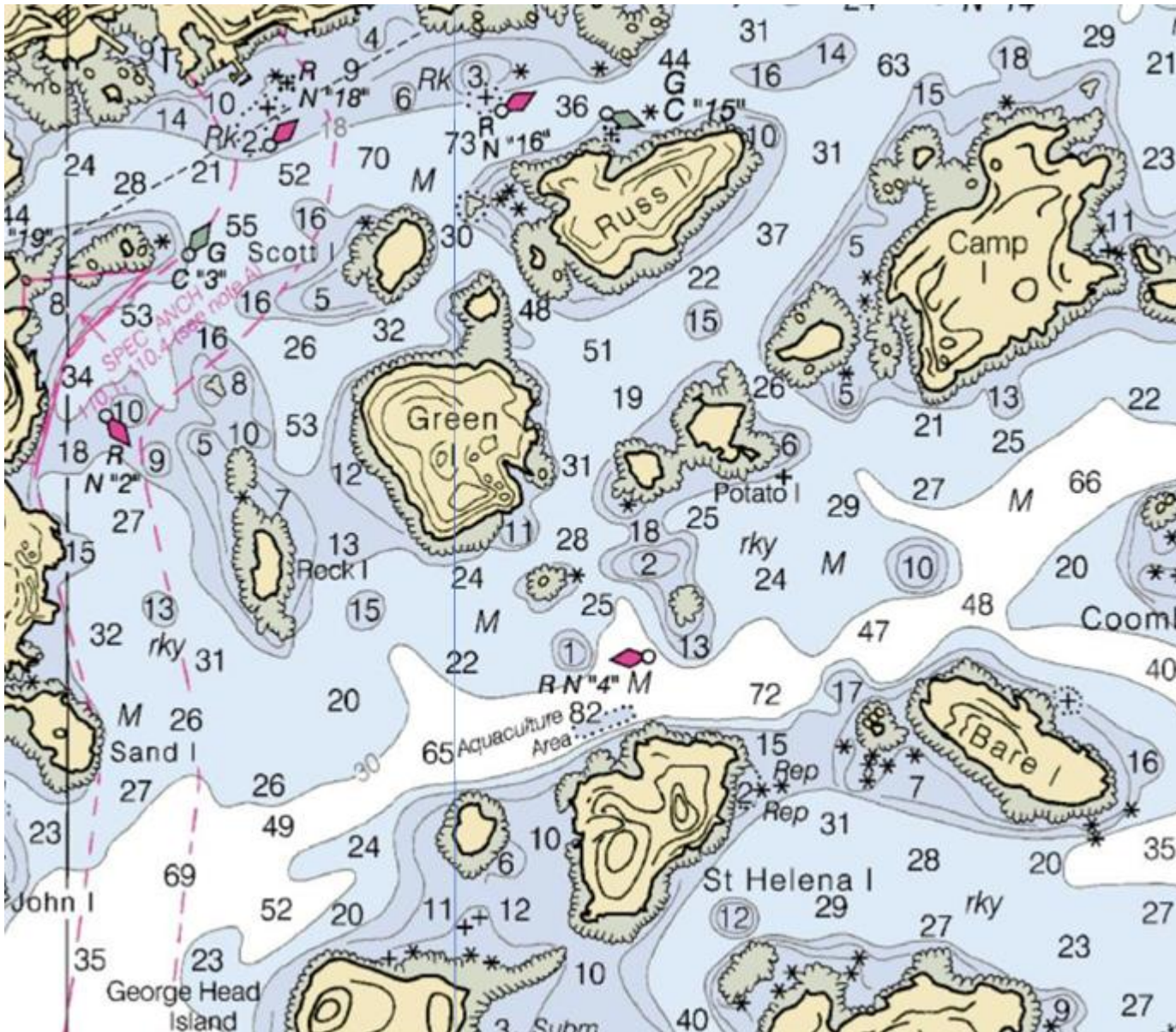
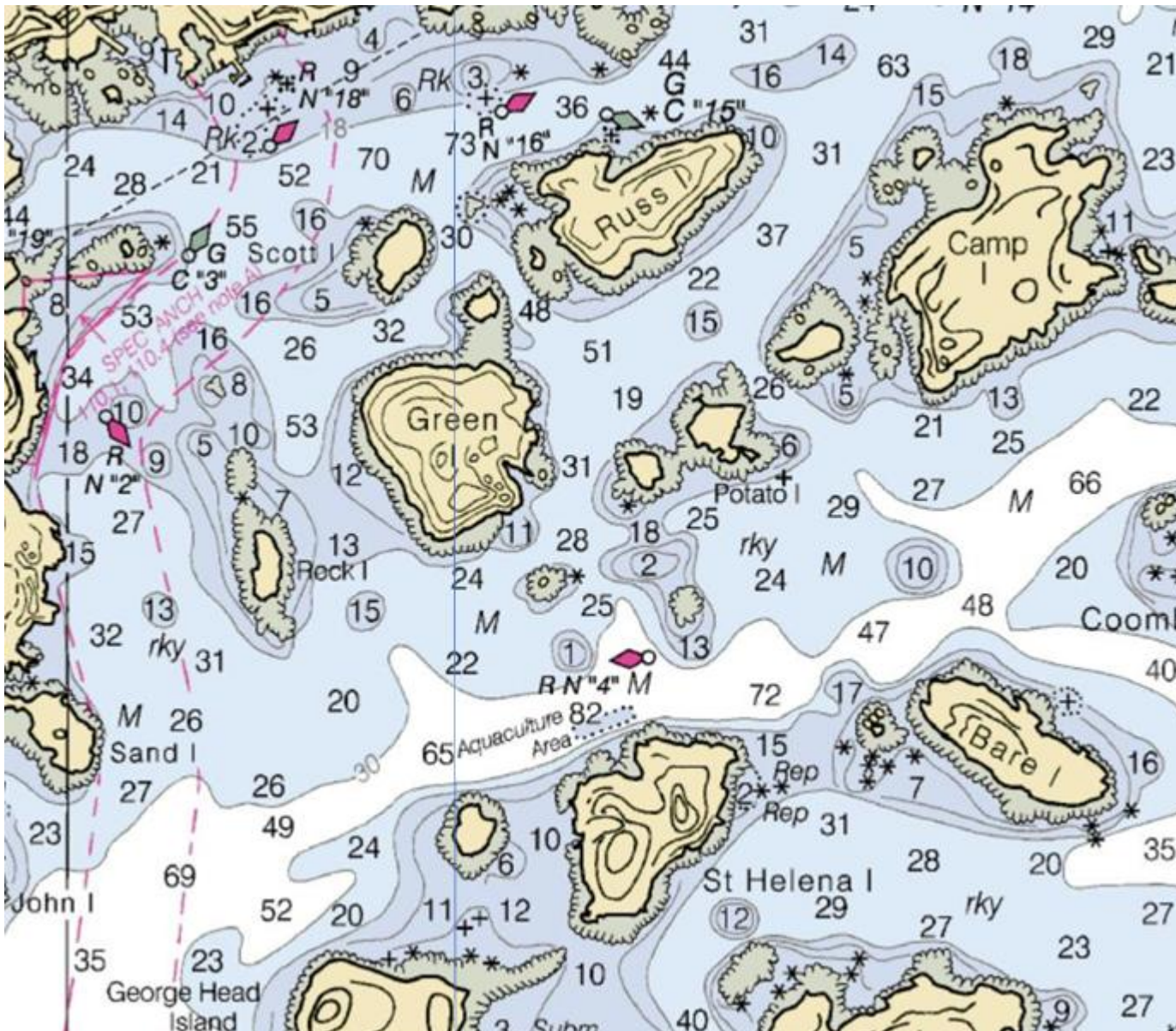




SOLUTIONS TO ASSIGNMENT 11





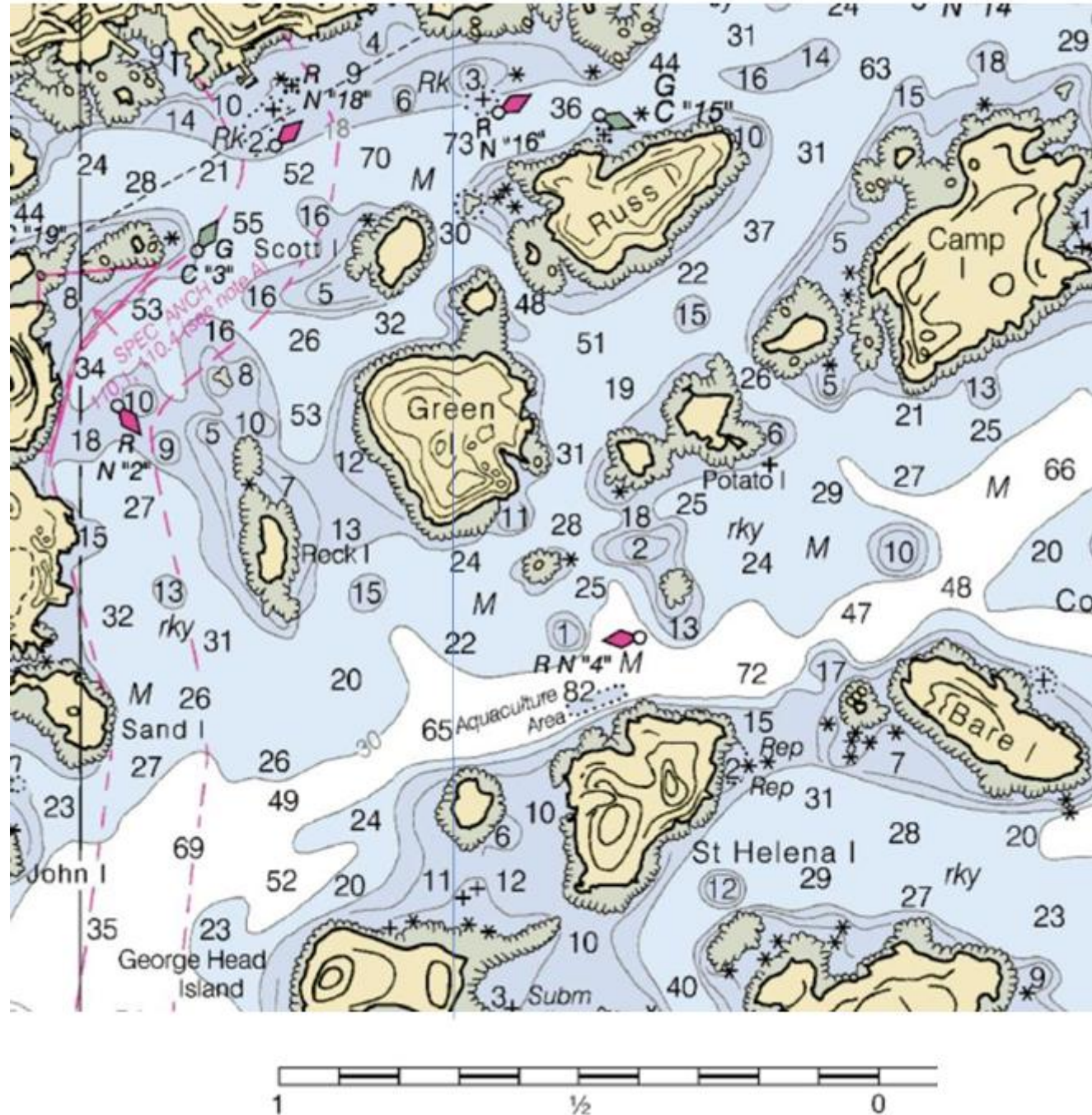
SOLUTIONS TO ASSIGNMENT 11

NOTE: If your answers in this assignment are within "plus or minus" 3° of my answers, your answers are correct!



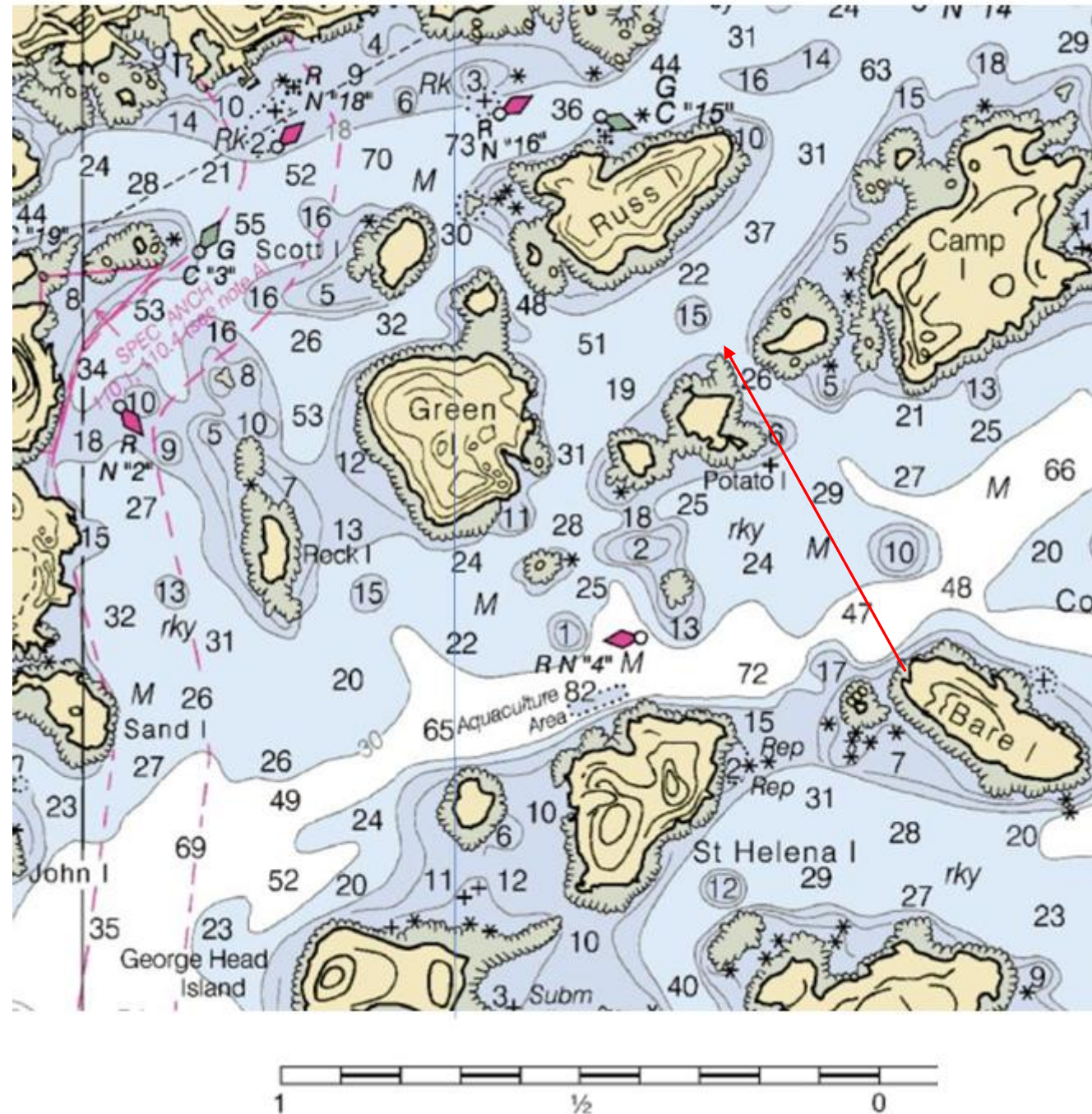
How would you plot a course from Bare Island to public boat ramp? Hint, you would do this in segments made up of straight lines. Draw the course on the chart.

There is more than one way answer 6 & 7 so your answer may be different than my solution.



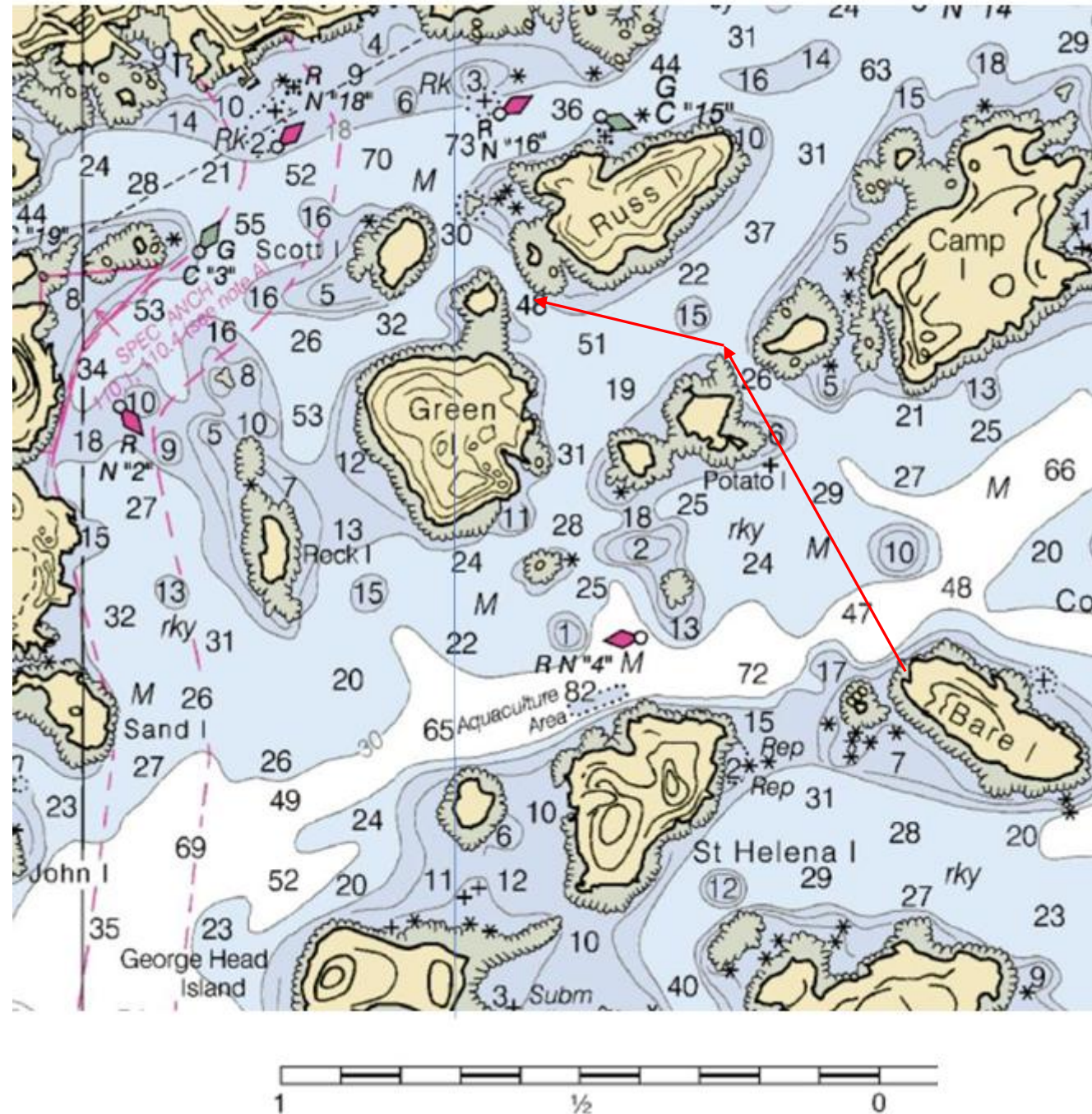
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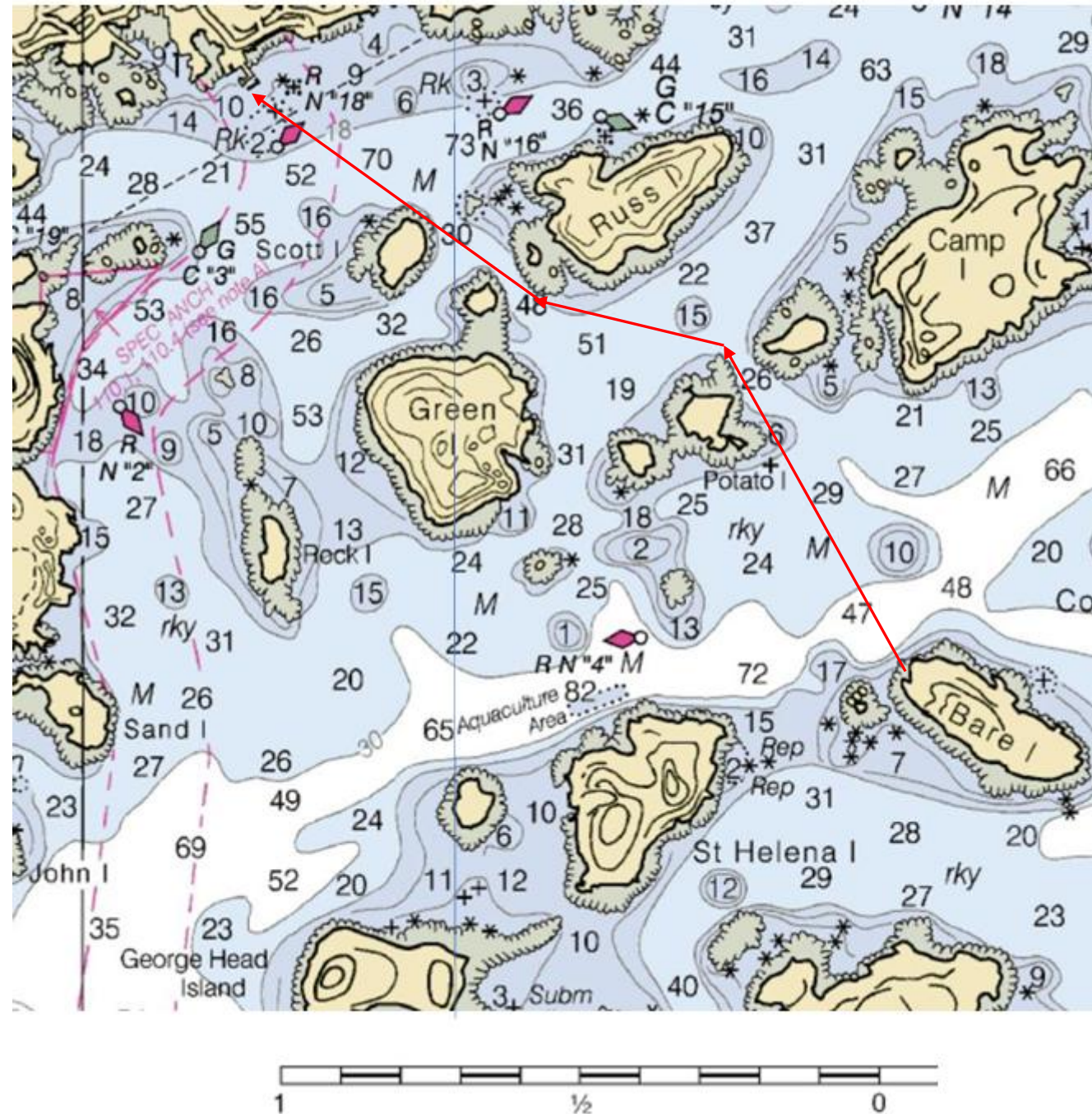


How would you plot a course from Bare Island to public boat ramp? Hint, you would do this in segments made up of straight lines. Draw the course on the chart.

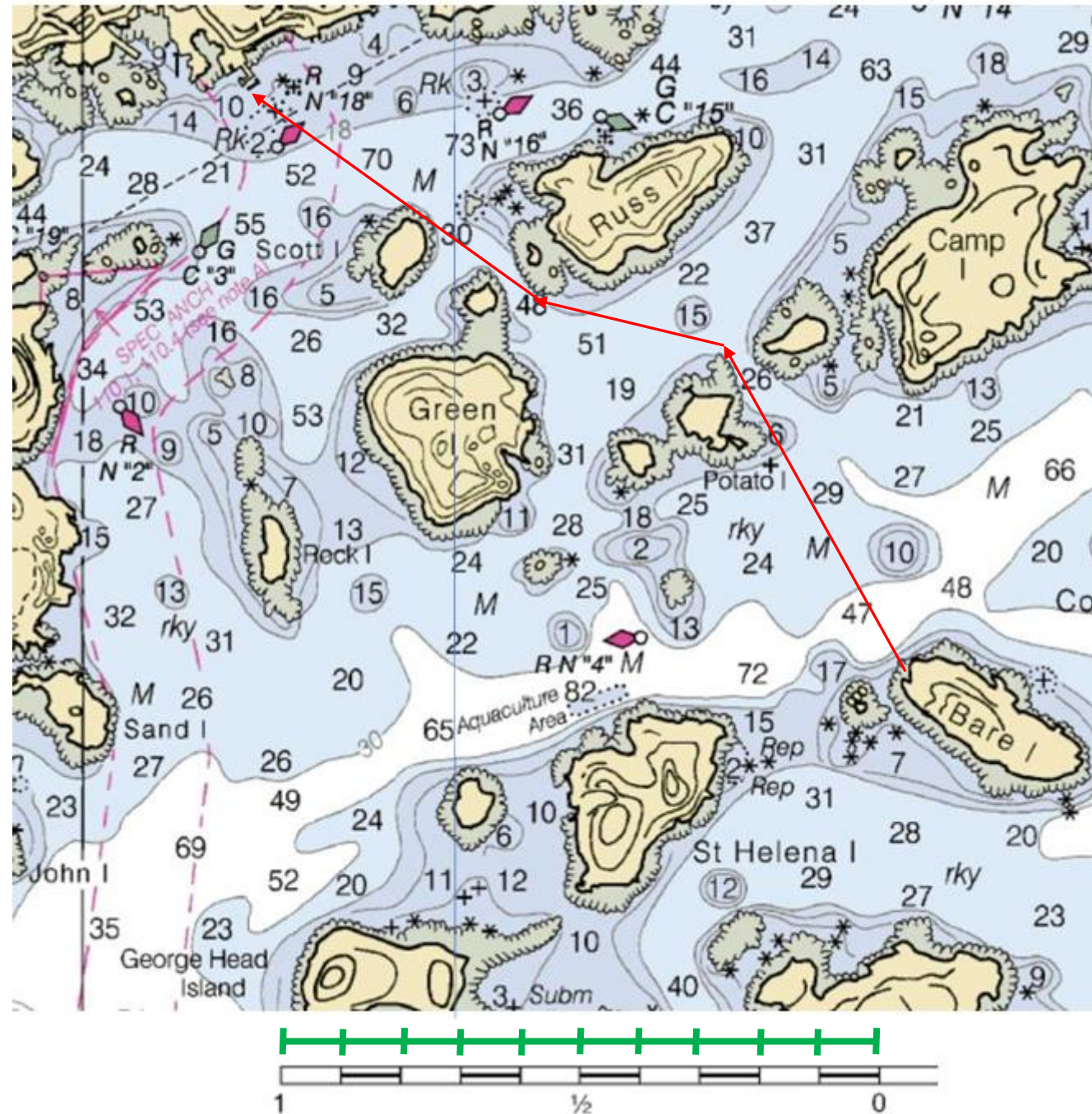
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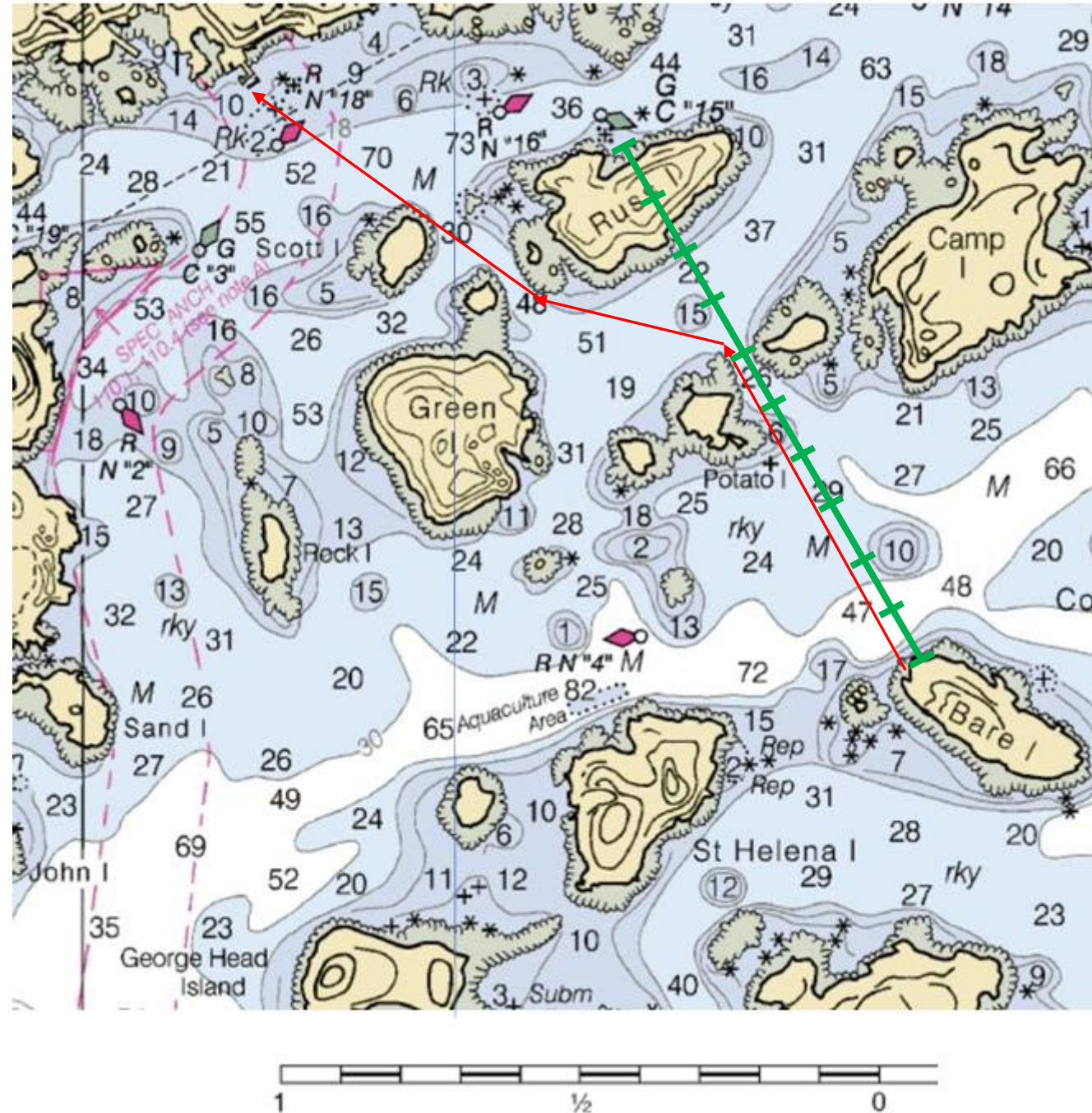
For the course from Bare Island to public boat ramp, determine the distance of each segment, the course bearing of each segment in degrees True and degrees Magnetic.



For the course from Bare Island to public boat ramp, determine the distance of each segment, the course bearing of each segment in degrees True and degrees Magnetic.



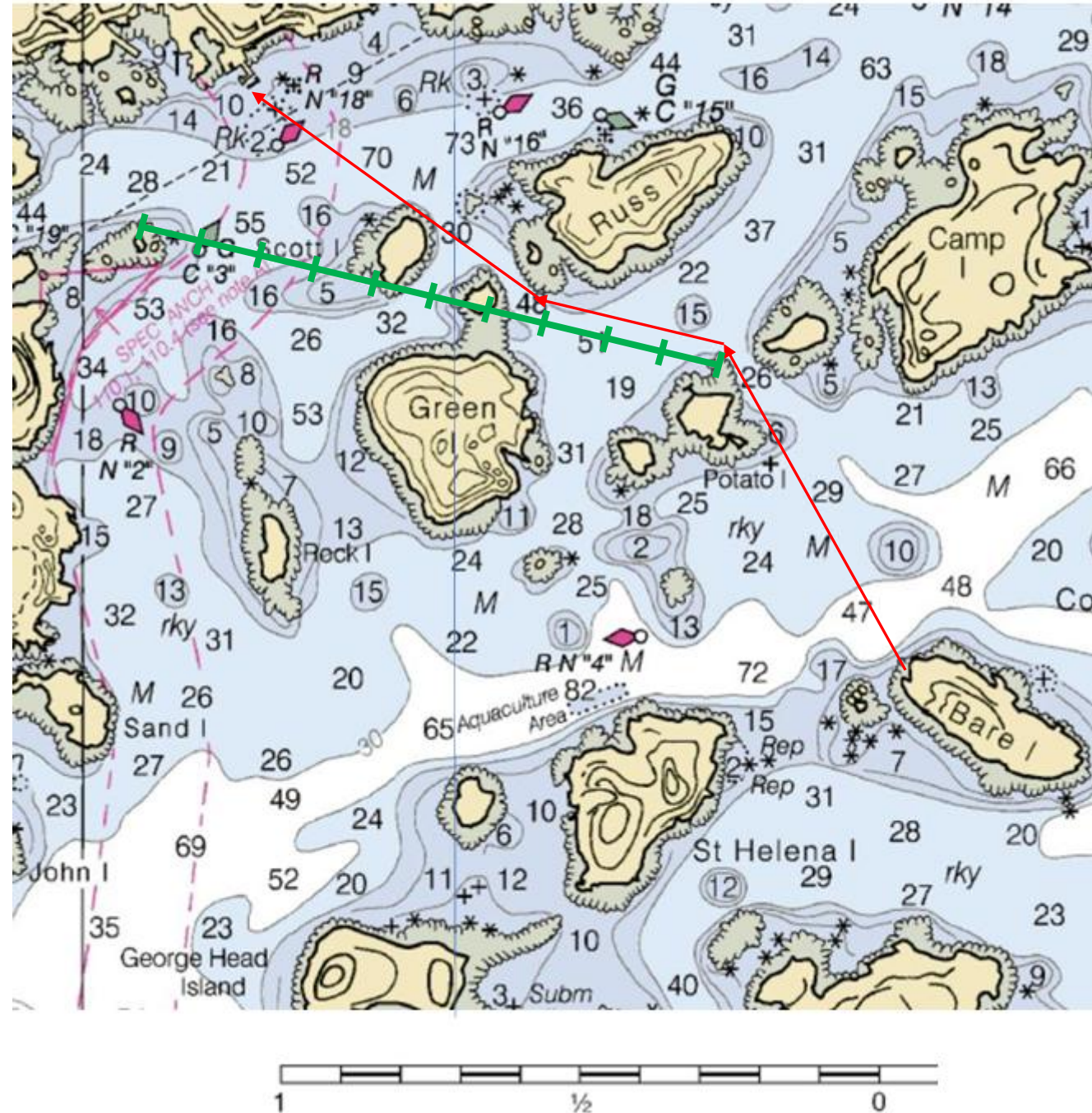
For the course from Bare Island to public boat ramp, determine the distance of each segment, the course bearing of each segment in degrees True and degrees Magnetic.



Segment 1 = 0.6 NM



For the course from Bare Island to public boat ramp, determine the distance of each segment, the course bearing of each segment in degrees True and degrees Magnetic.

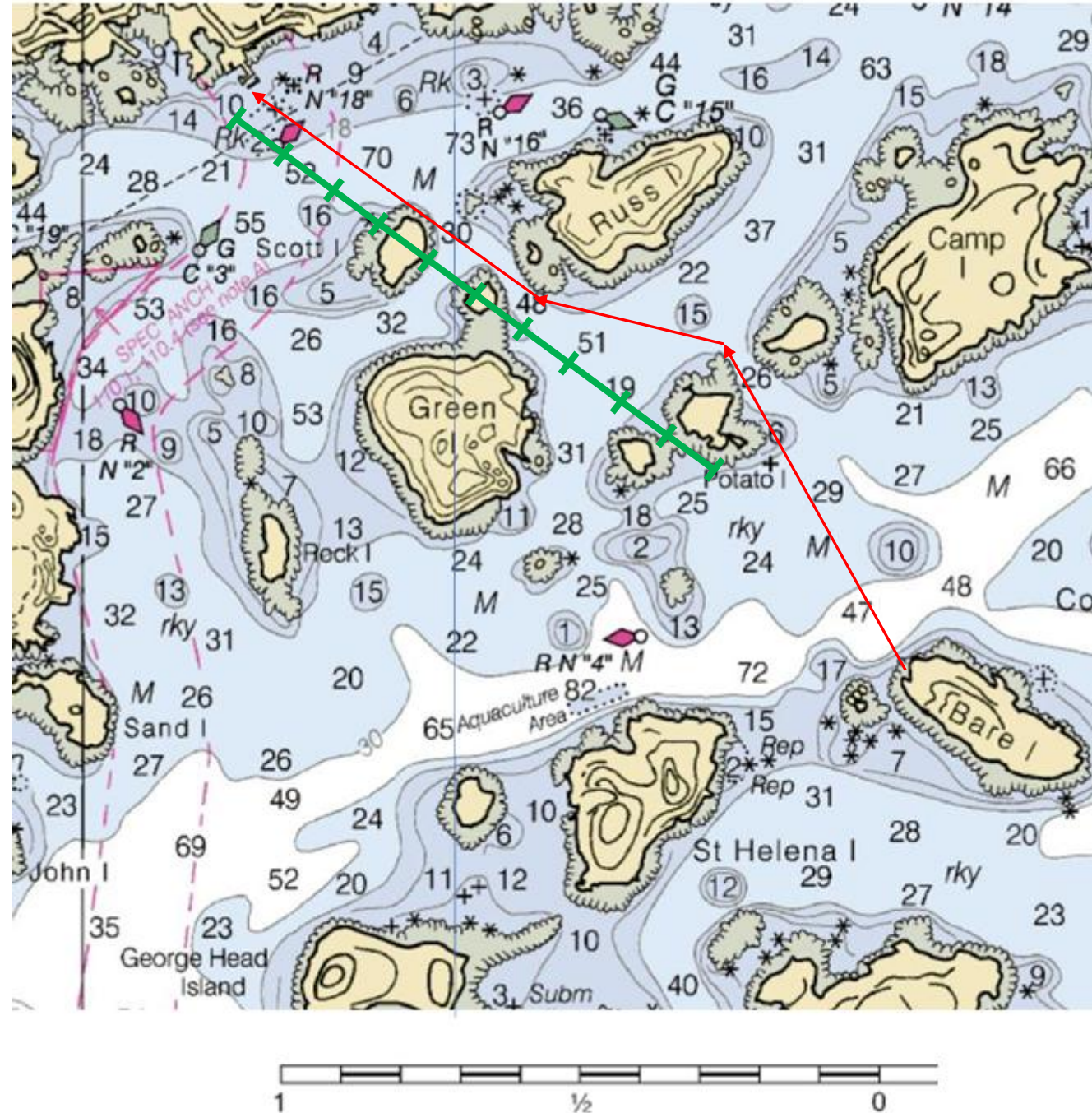


Segment 1 = 0.6 NM

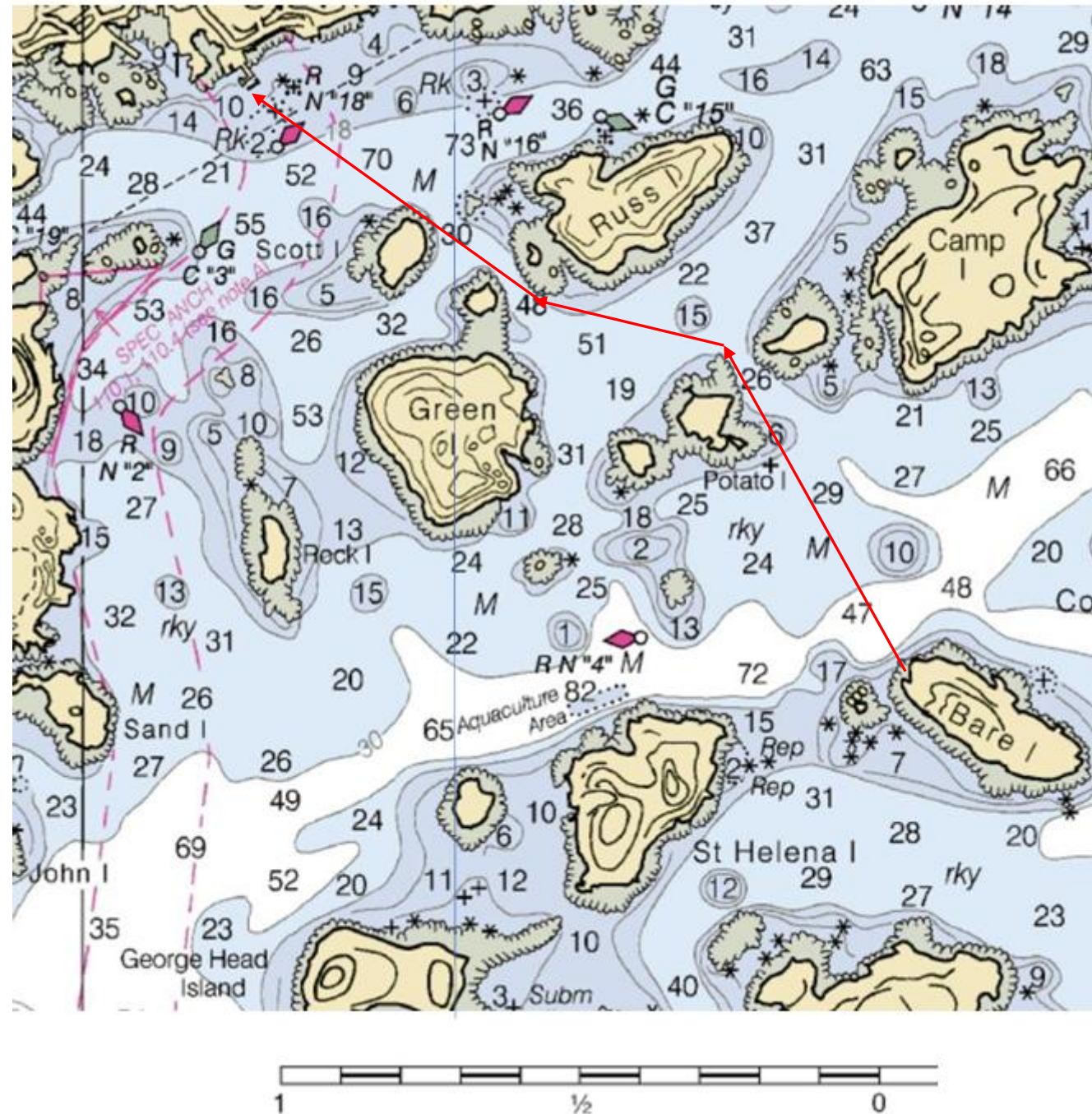
Segment 2 = 0.3 NM



For the course from Bare Island to public boat ramp, determine the distance of each segment, the course bearing of each segment in degrees True and degrees Magnetic.



For the course from Bare Island to public boat ramp, determine the distance of each segment, the course bearing of each segment in degrees True and degrees Magnetic.





Segment 1





Segment 1

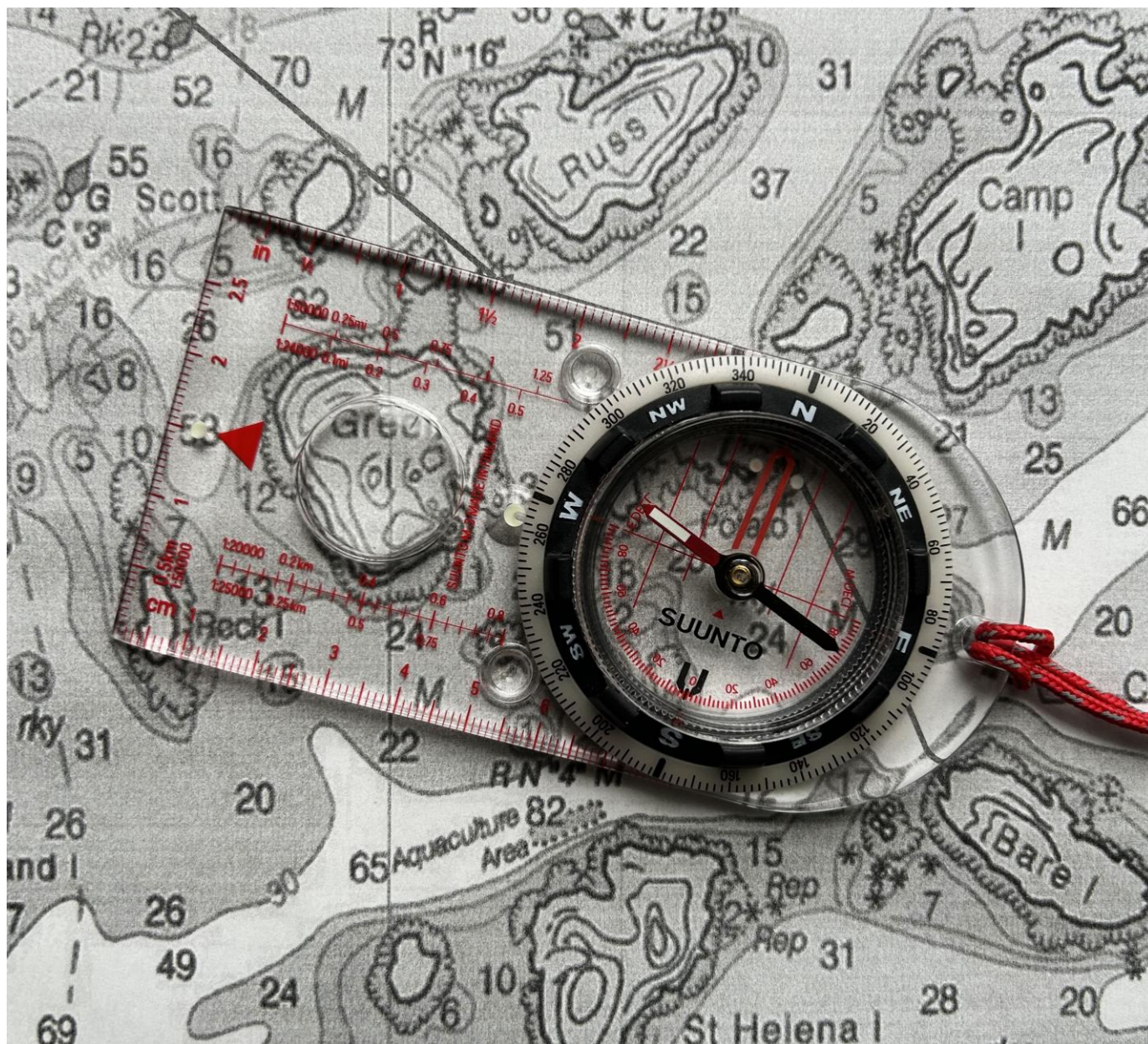
333° T

349° M

NOTE: The answers in the solution sheet are a degree or two different than the answers here. I used a compass as a 360 degree protractor here and an actual 360 degree protractor for the solution sheet. That is why the answers are not identical.

Magnetic = True + Variation





Segment 1

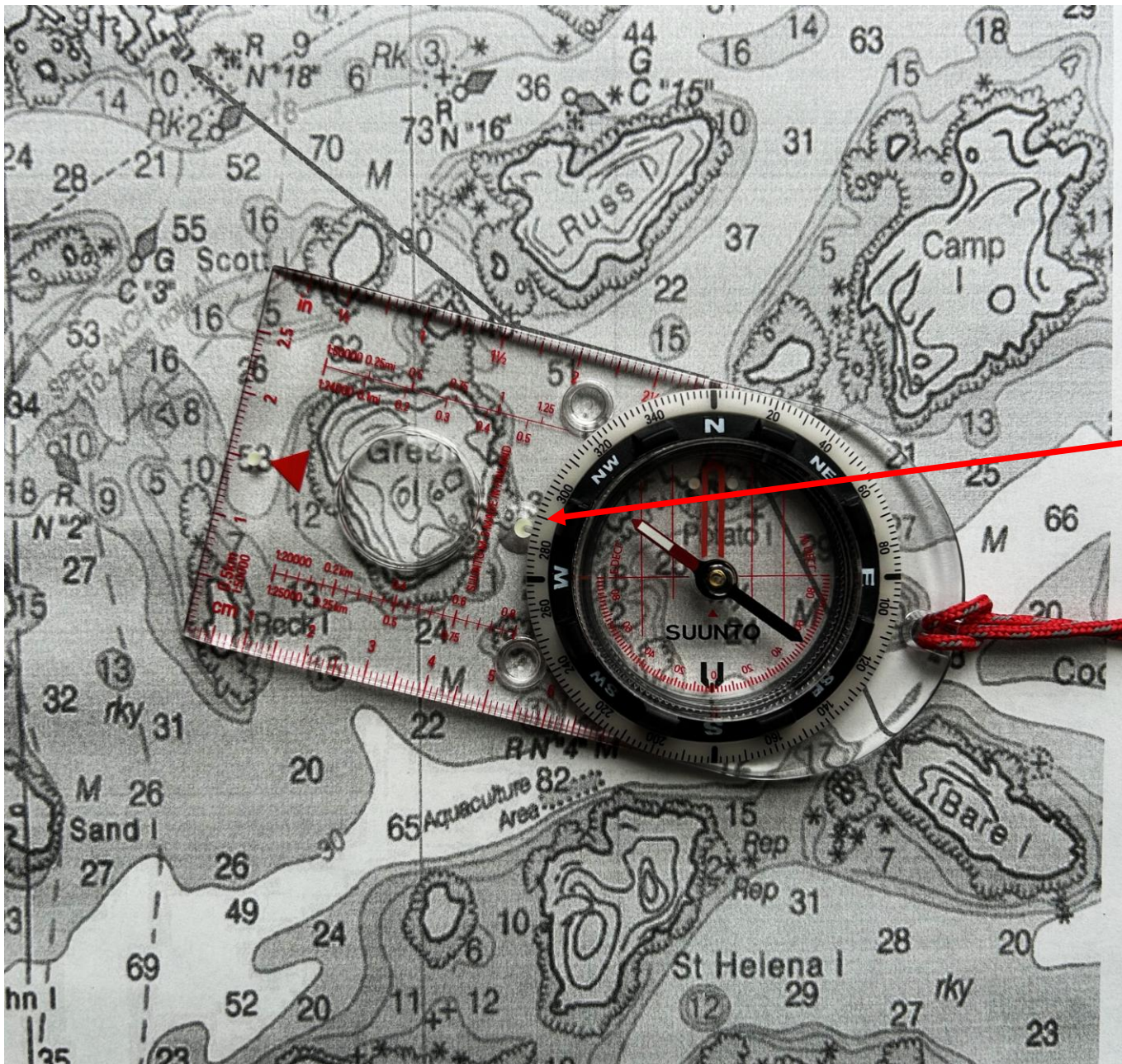
333° T

349° M

Segment 2

Magnetic = True + Variation





Segment 1

333° T

349° M

Segment 2

285° T

301° M

Magnetic = True + Variation





Segment 1

333° T

349° M

Segment 2

285° T

301° M

Segment 3

Magnetic = True + Variation





Segment 1

333° T

349° M

Segment 1

285° T

301° M

Segment 3

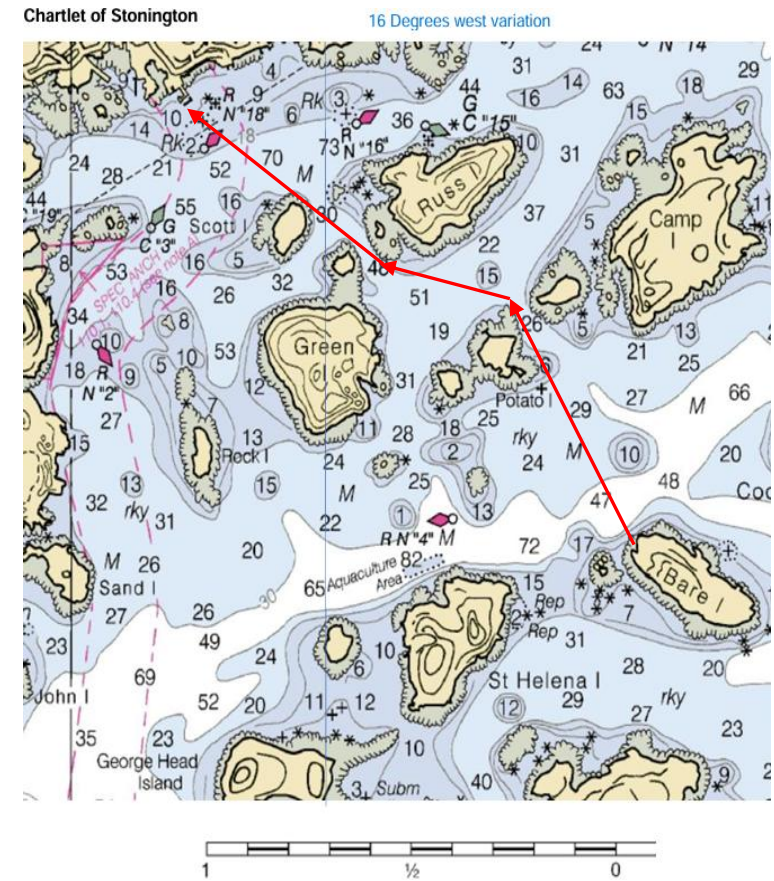
309° T

325° M

Magnetic = True + Variation



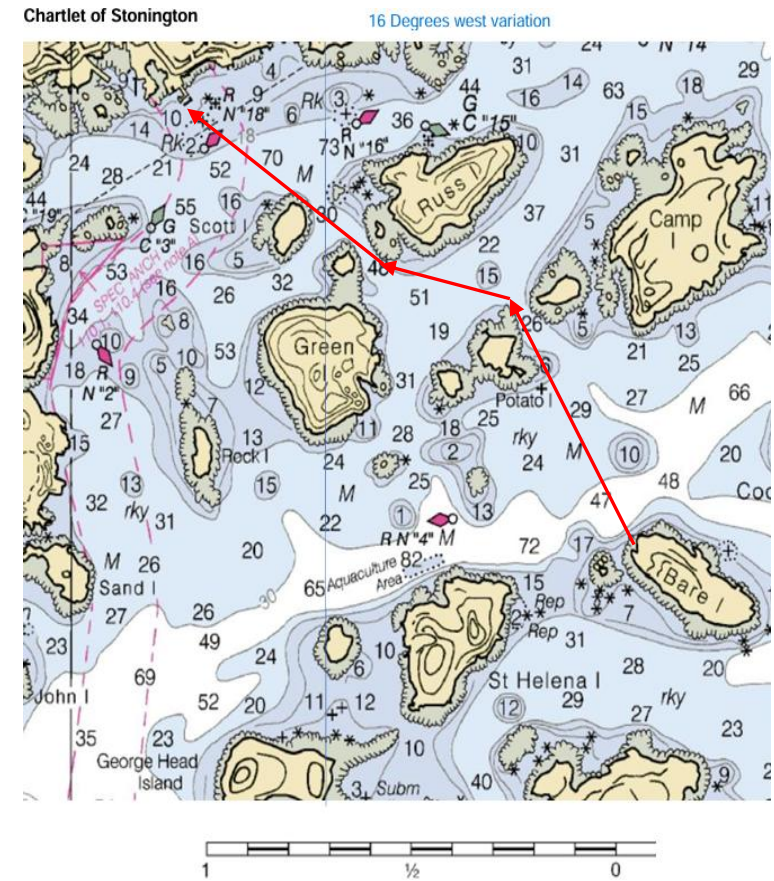
8) Assume that for your return trip in #7 it is foggy and you can't see more than 1,000'. You would start on segment 1 with a course bearing of 348° M and paddle toward the NE side of Potato Island. If you maintain a heading corresponding to that course bearing, you should find yourself at the end of Segment 1 and between Potato Island and Little Camp Island (Little Camp is the next island SW of Camp). (A) How long would it take you to reach that point?



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The typical kayaker paddles between 2 NM/Hr and 3 NM/Hr depending on fitness, experience, & conditions. As a paddler gains more experience, they know how fast they are paddling so they can estimate the time it will take to cover a known distance. You probably remember that formula is:

DISTANCE = SPEED x TIME or TIME = DISTANCE/SPEED

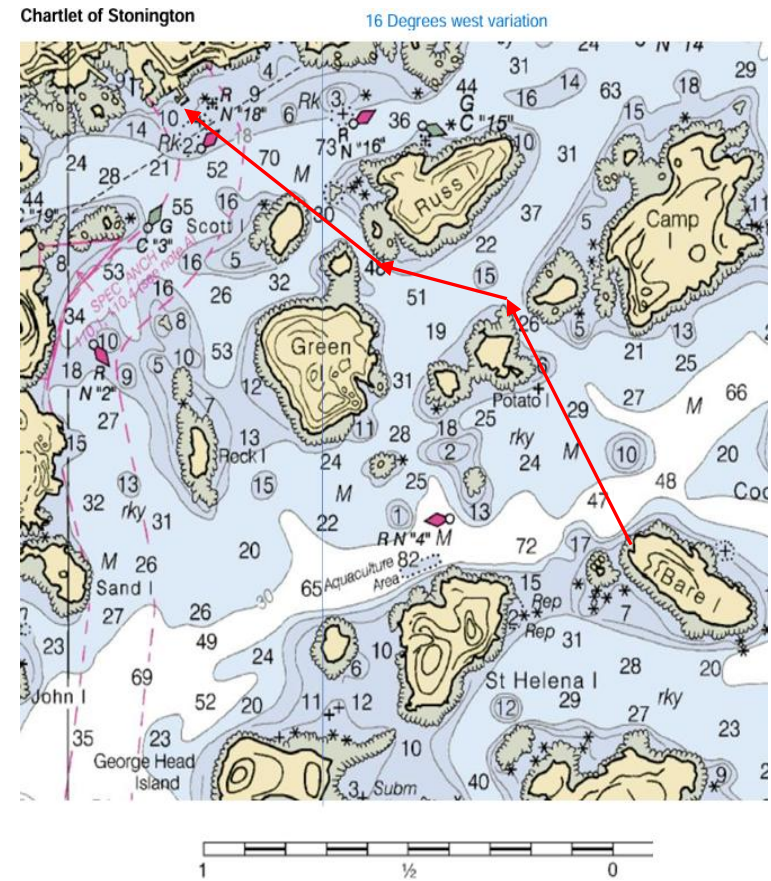


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$$\text{DISTANCE} = \text{SPEED} \times \text{TIME} \quad \text{or} \quad \text{TIME} = \text{DISTANCE} / \text{SPEED}$$

The length of Segment 1 is 0.6 NM. I, will calculate the time to complete Segment 1 paddling at a speed of both 2 NM/Hr and 3 NM/Hr.



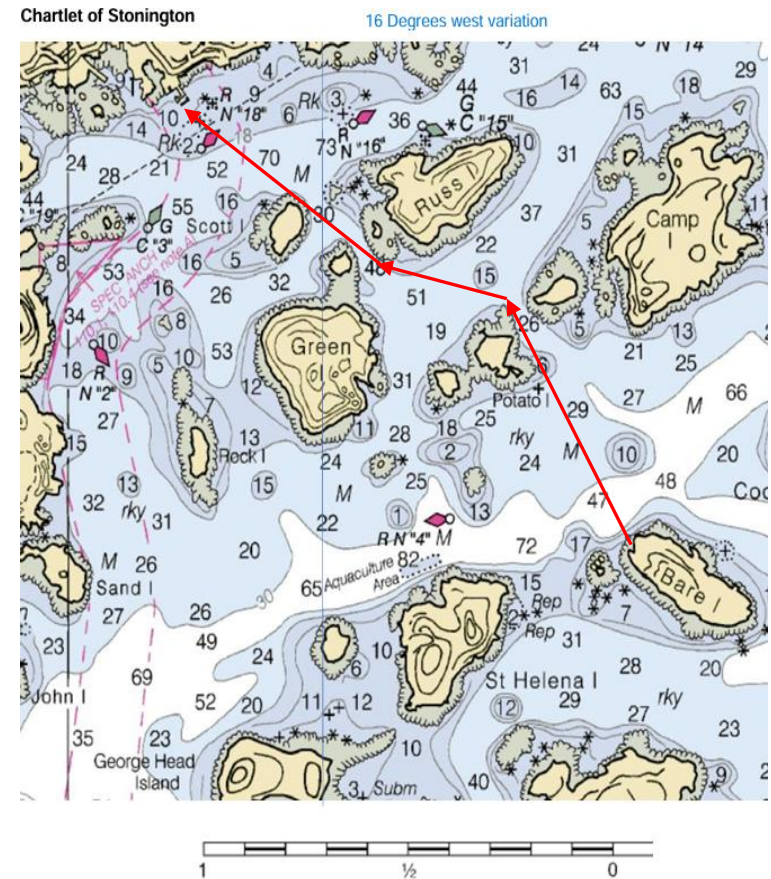
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TIME = 0.6 NM/2 NM/Hr = 0.3 hours or 0.3Hr x 60Min/Hr = 18 Min



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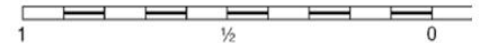
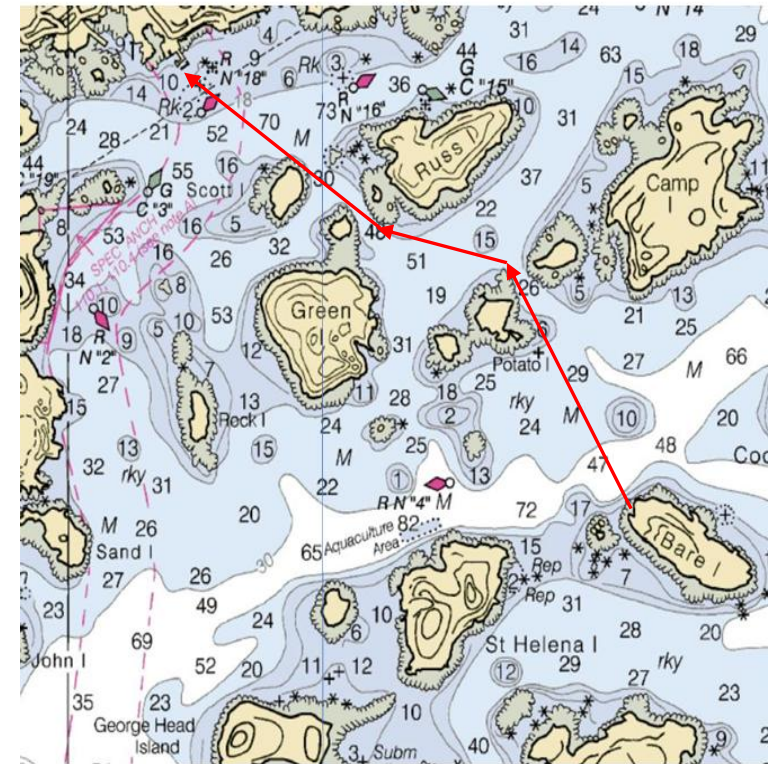
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TIME = 0.6 NM/3 NM/Hr = 0.2 hours or 0.2Hr x 60Min/Hr = 12 Min

Chartlet of Stonington

16 Degrees west variation

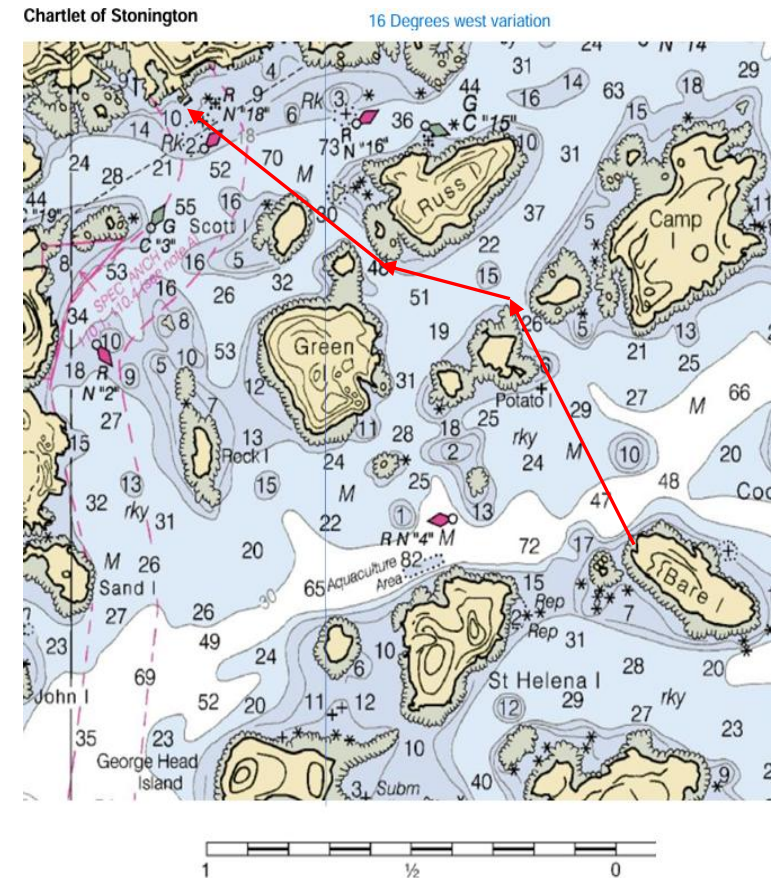


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Having reached the end of Segment 1, you set your new course bearing to correspond to Segment 2, 300° M. If you maintain a heading corresponding to that course bearing, you should find yourself at the end of Segment 2 and between Green and Russ Islands. (B) How long would it take you to reach that point?

TIME = DISTANCE/SPEED

The length of Segment 2 is 0.3 NM. I, will calculate the time to complete Segment 1 paddling at a speed of both 2 NM/Hr and 3 NM/Hr.



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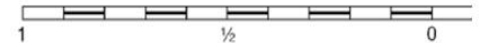
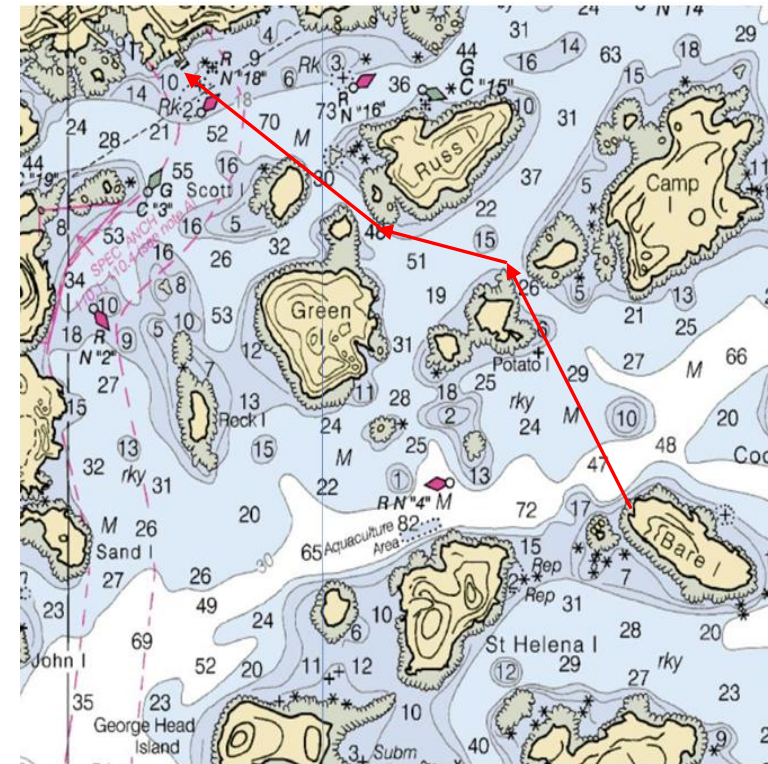
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The length of Segment 2 is 0.3 NM. I, will calculate the time to complete Segment 1 paddling at a speed of both 2 NM/Hr and 3 NM/Hr.

TIME = 0.3 NM/2 NM/Hr = 0.15 hours or 0.15Hr x 60Min/Hr = 9 Min

Chartlet of Stonington

16 Degrees west variation



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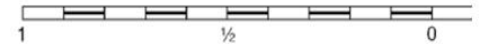
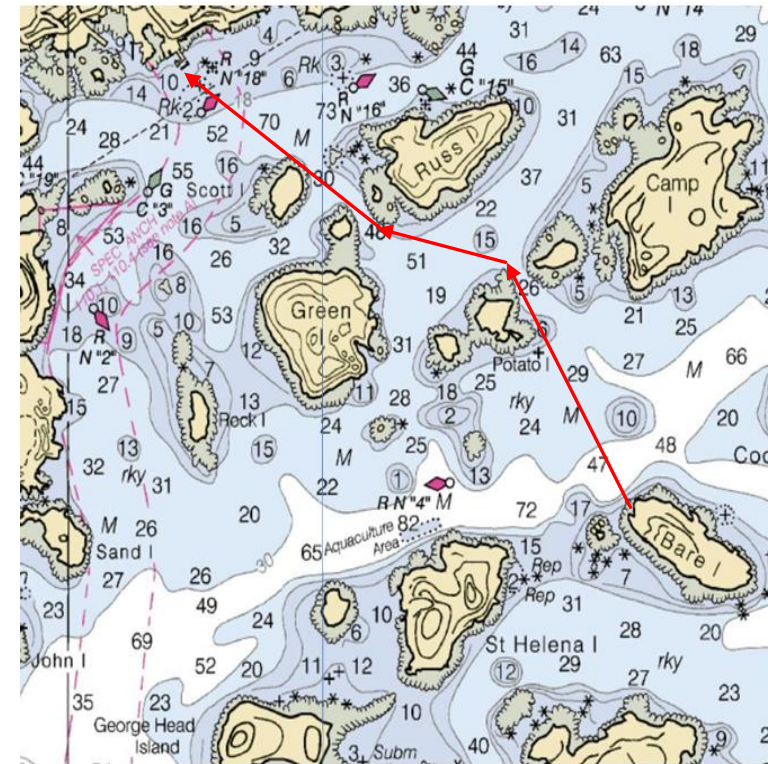
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TIME = 0.3 NM/2 NM/Hr = **0.15 hours** or 0.15Hr x 60Min/Hr = **9 Min**

TIME = 0.3 NM/3 NM/Hr = **0.1 hours** or 0.1Hr x 60Min/Hr = **6 Min**

Chartlet of Stonington

16 Degrees west variation



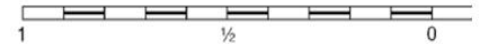
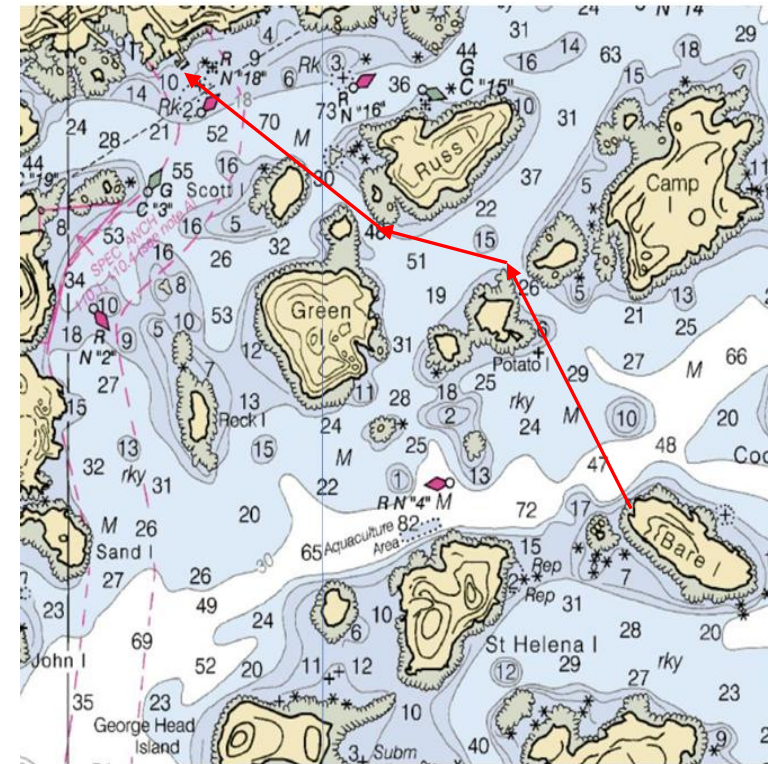
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Having reached the end of Segment 1, you set your new course bearing to correspond to Segment 2, 300° M. If you maintain a heading corresponding to that course bearing, you should find yourself at the end of Segment 2 and between Green and Russ Islands. (B) How long would it take you to reach that point?

Having reached the end of Segment 2, you set your new course bearing to correspond to Segment 3, 353° M. If you maintain a heading corresponding to that course bearing, you should find yourself at the end of Segment 3 and in front of the boat ramp. (C) How long would it take you to reach that point?

Chartlet of Stonington

16 Degrees west variation



8) Assume that for your return trip in #7 it is foggy and you can't see more than 1,000'. You would start on segment 1 with a course bearing of 348° M and paddle toward the NE side of Potato Island. If you maintain a heading corresponding to that course bearing, you should find yourself at the end of Segment 1 and between Potato Island and Little Camp Island (Little Camp is the next island SW of Camp). (A) How long would it take you to reach that point?

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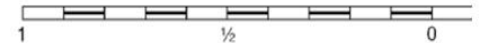
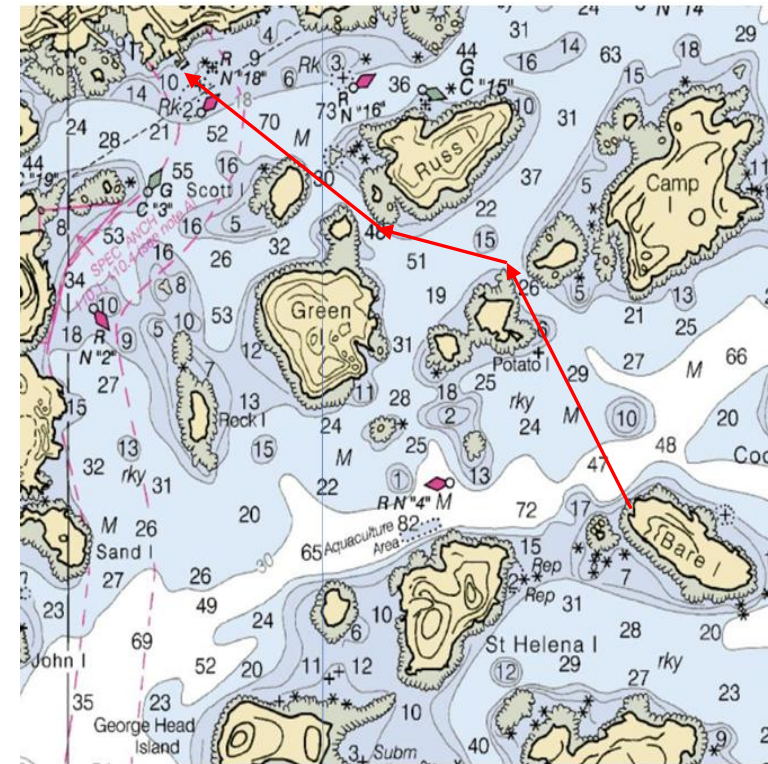
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TIME = DISTANCE/SPEED

The length of Segment 3 is 0.6 NM. I, will calculate the time to complete Segment 3 paddling at a speed of both 2 NM/Hr and 3 NM/Hr.

Chartlet of Stonington

16 Degrees west variation



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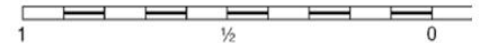
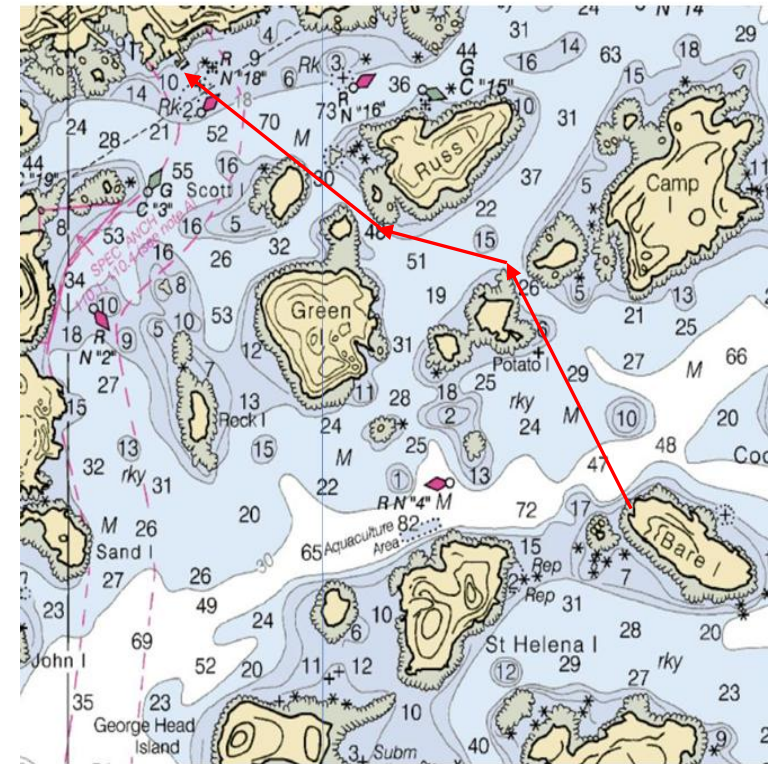
TIME = DISTANCE/SPEED

The length of Segment 3 is 0.6 NM. I, will calculate the time to complete Segment 3 paddling at a speed of both 2 NM/Hr and 3 NM/Hr.

TIME = 0.6 NM/2 NM/Hr = 0.3 hours or 0.3Hr x 60Min/Hr = 18 Min

Chartlet of Stonington

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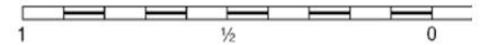
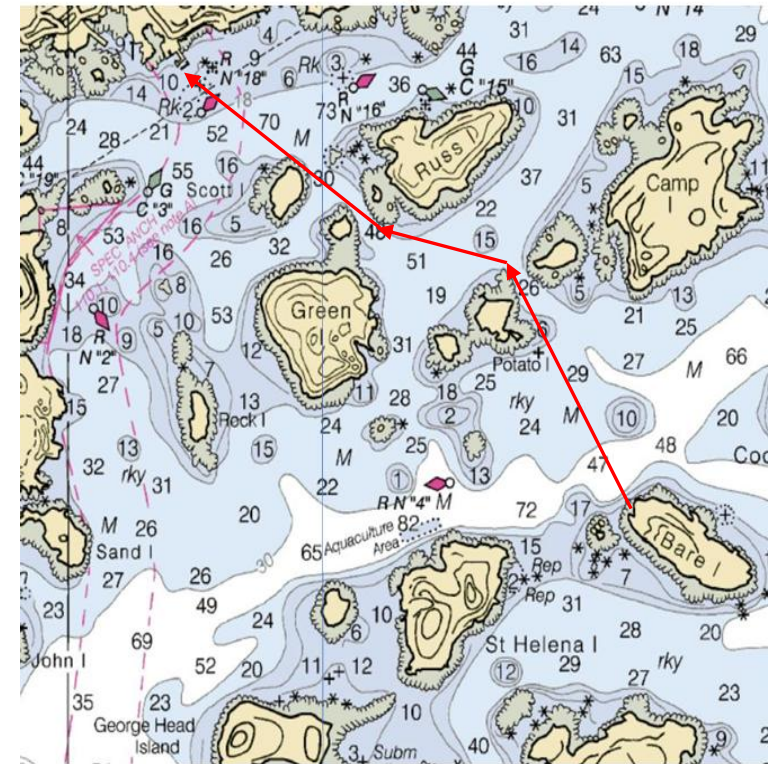
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Chartlet of Stonington

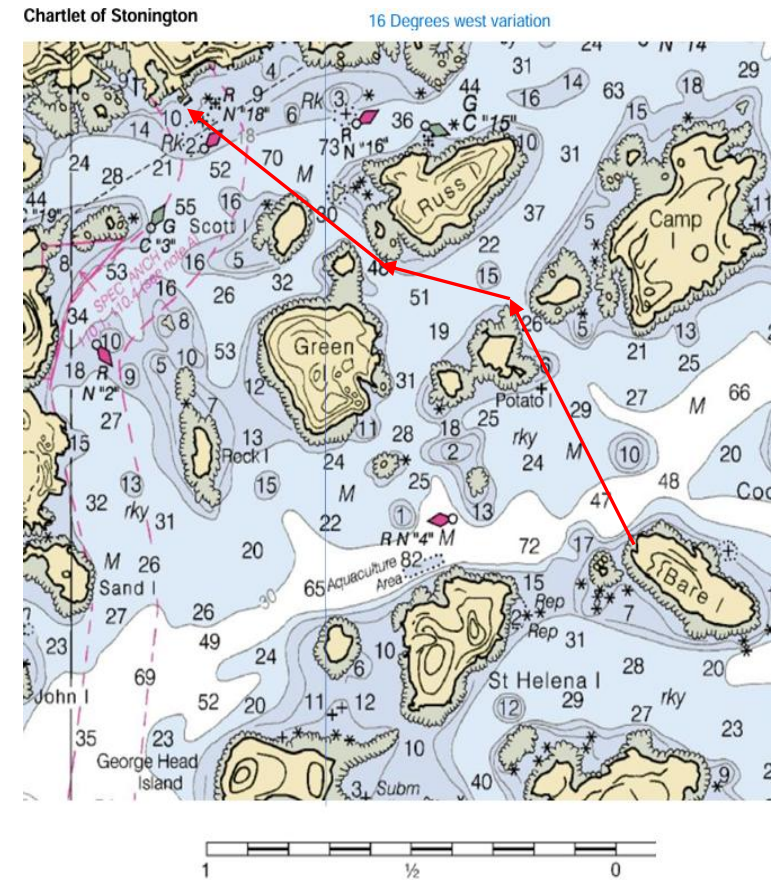
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<u>Segment #</u>	<u>Distance in NM</u>	<u>Time @ Speed of 2 NM/Hr</u>	<u>Time @ Speed of 3 NM/Hr</u>
1	0.6	18 minutes	12 minutes
2	0.3	9 minutes	6 minutes
3	0.6	18 minutes	12 minutes
TOTAL		45 minutes	30 minutes

