



# The Gulf Stream Voyage

Lesson #2 - Bermuda High,  
Big Fan in the Sky

Name \_\_\_\_\_

**Do you believe the surface waters in the  
North Atlantic Ocean always flow along the same pathway?**

Hypothesis: \_\_\_\_\_  
\_\_\_\_\_

Which type of data will better assist you in supporting your hypothesis? (Circle)

**REAL TIME DATA**

**HISTORICAL DATA**

Conclusion: \_\_\_\_\_

Answer this after you have  
completed the activity

\_\_\_\_\_

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## Real Time Data Questions

1. Describe what happens to the position(s) of low and/or high-pressure cells over the North Atlantic Ocean during a 48 hour time period.
2. Generally speaking, in what direction do these cells travel over time?
3. Can you predict what types of pressure systems will be located over the North Atlantic this time next month? Why can or can't you?
4. As a scientist, what information and/or data would you need, to see if any trends exist concerning atmospheric pressure systems?

Name \_\_\_\_\_

## Gulf Stream Voyage (Lesson #2)

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### Historical Data Directions & Questions

1. On the web page, click on your current month.
2. Looking at the COADS Historical data image from your month answer the following questions:
  - How many years of data does this image represent? \_\_\_\_\_
  - What do the colors represent? \_\_\_\_\_
  - What type of pressure system is apparent over the North Atlantic Ocean? \_\_\_\_\_
3. Does this image resemble the real time data you viewed? If not, why?
4. Look at some of the other monthly COADS images. What pattern do you see in all of the images?
5. How would this pattern affect the overall wind direction in the North Atlantic Ocean?
6. Using your knowledge about air/sea interactions, how will these average sea surface pressures affect the overall wave/surface water movement in the North Atlantic Ocean?

**Formulate your conclusion**