



The Gulf Stream Voyage

Lesson #1
As the Wind Blows...

Name _____

Can the wind cause something as massive as the ocean to move?

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

Real Time Data Questions

Real Time Data Link #1 - Satellite Picture (12 hour loop) of Western Atlantic

1. What can dense cloud coverage show?
2. Pick a region with clouds and note which direction the clouds are moving.
(Examples: East, West, Clockwise, Counter-Clockwise, etc...)
3. Predict the direction the wind is blowing in that same region.
4. Do you think the wind speed in that region is greater than, less than or the same as the region off the East Coast of Florida? Why?

Name _____

Gulf Stream Voyage (Lesson #1) Real Time Data Questions Continued

Real Time Data Link #2 - Surface Wind Speed/Direction

1. Using the arrows (wind barbs), record the direction of the wind in the region you previously chose in Real Time Data Link #1.
2. Was your prediction (Question #3 – RTD Link #1) correct? If not can you explain why?
3. Using your observation from Real Time Data Links #1 and #2, predict the direction of wave moment in your chosen region.
4. Will wave height in your chosen region be greater than, less than or the same as off the East Coast of Florida?

Real Time Data Link #3 - Wave Height (ft) and Direction

1. Using correct units, record the wave direction and height in your chosen region.
2. Using correct units, record the wave height off the East Coast of Florida.
3. Was your prediction (Question #3 – RTD Link #2) correct?

If your predictions worked, formulate your conclusion

If your predictions were not correct, work backward starting with Real Time Data Link #3 and ending with Real Time Data Link #1.