

*Ocean Currents:  
the Reality of Sending a Message in a Bottle*

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

**Pre-activity Questions:**

❖ **If you could send a message in a bottle:**

- Where would you want the bottle to go?

\_\_\_\_\_

- Who would you want to find the bottle?

\_\_\_\_\_

- What would the message be?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Data:**

**NOTES from PowerPoint Presentation:**

**Draw** a diagram of *Ocean Current Layers*: Be sure to label the - surface, pycnocline, and deep - waters.

*Water Properties* that Impact Ocean Currents & how they react and interact:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

*Primary Current Forces* and what they do:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

Notes on *Surface Currents*

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Notes on *Deep Currents*

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**Indicate** the *Gulf Stream* on the **first map** below with a purple colored pencil.

**Indicate** the *Global Conveyer Belt* on the **world map** with an orange colored pencil.



Note: this map should include the Gulf Stream and Warm & Cold Currents of the Atlantic Ocean.  
<http://geography.about.com/library/cia/blcatlantic.htm>

How do Ocean Currents impact living things?

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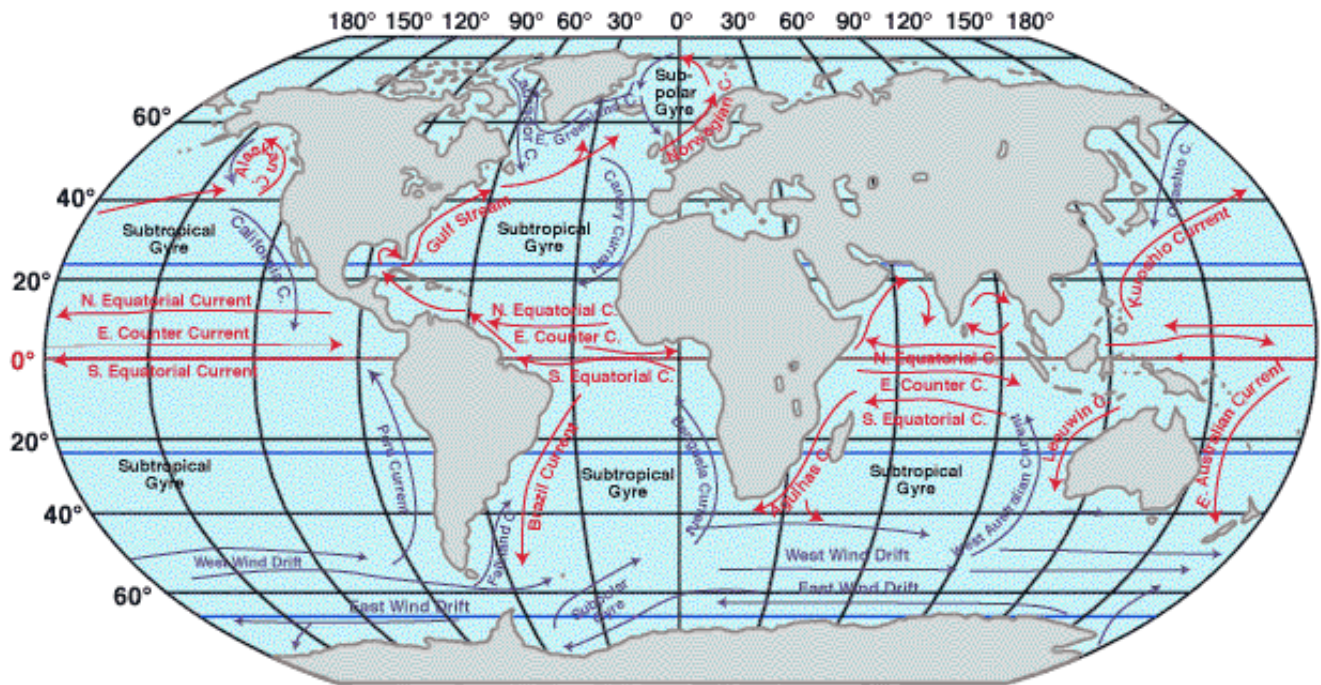
**Indicate** on the global map the **ACTUAL** path your *Message in a Bottle* would take from your favorite beach destination.



Note: this map should include a STAR, an X, the actual path of your message in a bottle, and the Global Conveyer Belt.  
<http://geography.about.com/gi/dynamic/offsite.htm?site=http%3A%2F%2Fjan.ucc.nau.edu%2F%7Eckk%2Fmaps.html>

**Climate:**

Which current carries hurricanes to the eastern seaboard of the United States? \_\_\_\_\_



 **Warm Current**  
 **Cold Current**

(C. = Current)

[http://www.bigelow.org/shipmates/hc\\_currents\\_lg.gif](http://www.bigelow.org/shipmates/hc_currents_lg.gif)