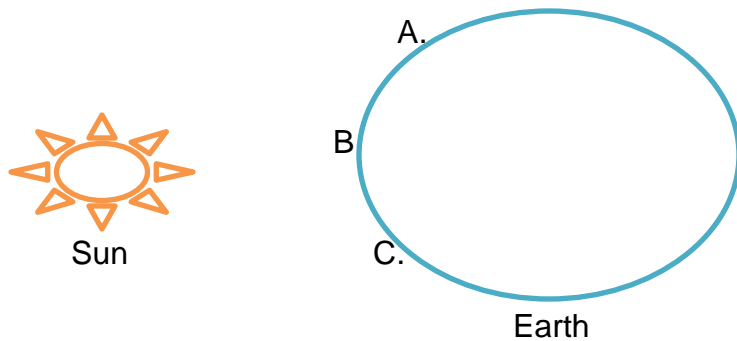


## UNDERSTANDING WATER & CLIMATE



At what point (A,B,or C) will Earth receive the suns direct rays (highest amount of heat and light) creating an environment much warmer than at the other two points. What is the name of this area? (Circle A, B, or C on Diagram Above)

1. Where do warm currents originate? (Place Name on Earth Diagram)

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2. How do warm currents affect climate?

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3. Where do cold currents originate? (Place Name on Earth Diagram)

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4. How do cold currents affect climate?

5. Let's say, you were going to build a cabin. In order to reduce heating costs, would you choose to build your cabin near a large lake or on land away from a large lake, Why?

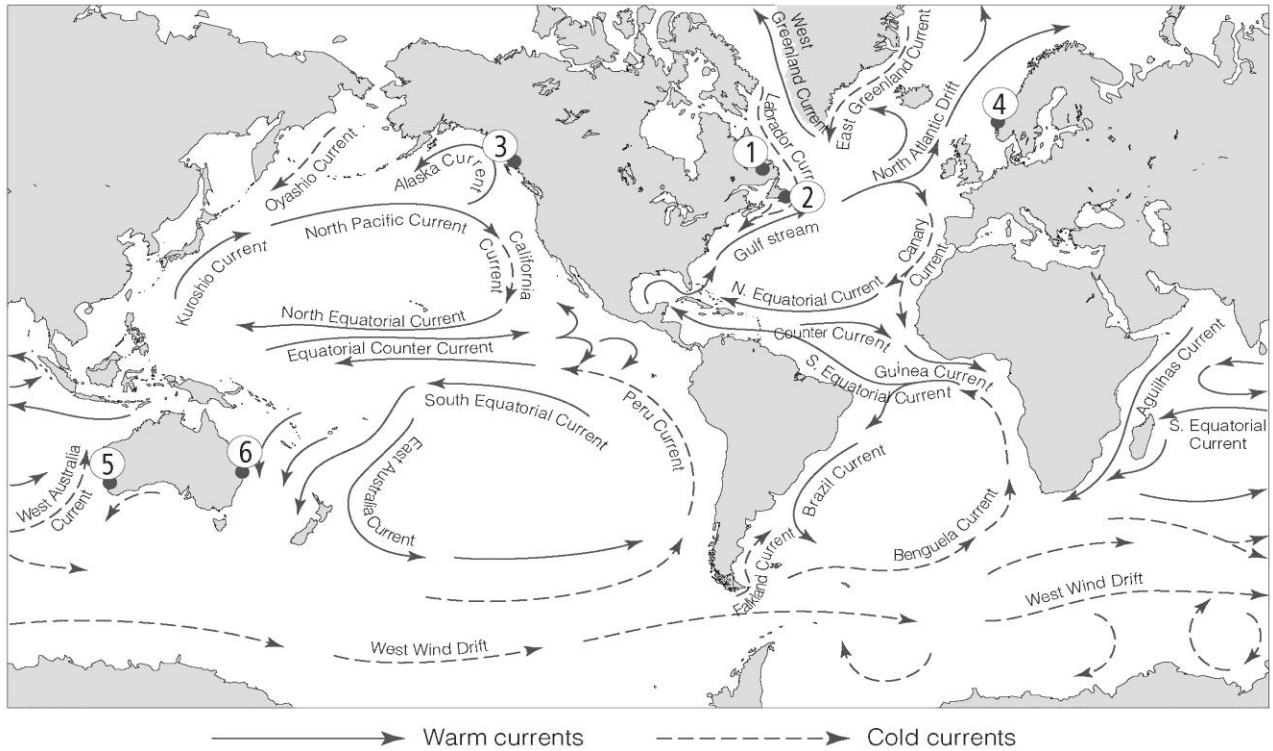
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5. Does cold air or warm air have a greater density?

6. What is being created when there is a transfer of warm air and cold air between the ocean and the atmosphere?

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When the \_\_\_\_\_ moist air above the Gulf Stream blows over the \_\_\_\_\_ water of the \_\_\_\_\_ current, the air will \_\_\_\_\_ and \_\_\_\_\_ producing \_\_\_\_\_.

Pacific trade winds help to move the warmer surface water of the ocean to different parts of the world causing the colder water to move up from the bottom thus maintaining normal weather conditions.

What might happen to weather conditions if the trade winds slowed down or speeded up?

SlowedDown \_\_\_\_\_

SpeededUp \_\_\_\_\_