Assignment 0

1. Imagine a world where the ocean has no tides. Using this scenario, answer the following questions:
   a. How would the weather patterns be different?
   b. How would currents in the ocean change?
   c. How would marine life be affected?
   d. How would human societies be impacted?

2. The temperature of the atmosphere is directly influenced by the temperature of the oceans. When the water temperature is higher, the air temperature also increases. When the water temperature is lower, the air temperature decreases. Explain this relationship.

3. As you move from the equator to the poles, the temperature of the ocean and the atmosphere both decrease. Explain why this occurs.

4. The mean annual temperature of the ocean at a depth of 1000 meters is approximately 1°C. Explain why this is the case.

5. The ocean is heated by the sun. Explain how the sun's energy is absorbed by the ocean.

6. The oceans play a crucial role in regulating the Earth's climate. Explain how the oceans contribute to this process.

7. The ocean is a major supplier of fresh water to the Earth. Explain how this occurs.

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