

Name _____

Ocean and Climate Outline

I. Heat

- A. Sun heats ocean water *slowly*.
- B. Water retains heat for a *long* period of time and water releases heat *slowly*.
- C. Oceans take a *long* time to heat.
- 1. Oceans help even temperatures.
- 2. Oceans cool land during the summer and heat land during the winter.

II. Wind

- A. At the ocean there is a pressure and temperature difference between land and water.
- 1. Wind forms.
- 2. Oceans are very windy places.
- 3. Ocean wind moves clouds, air masses and weather fronts.**

III. Precipitation

- A. Areas near oceans have more precipitation.
- 1. A lot of water vapor is in the air.

IV. Ocean Currents

- A. Ocean winds create **strong** ocean currents.
- 1. Example: The Gulf Stream
- B. Ocean currents bring warm and cold water to different areas.
- 1. This water effects air temperatures.