Oceans and climate

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A. What are causes to the ocean surface. When the wind blows it pushes the ocean water ahead of it the wind witch transfers some of its energy into the water. The water is able to get energy from the wind because of the friction between the wind and the water.
Ocean current An ocean current is a continuous movement of ocean water generated by the forces such as breaking waves,wind,temperature and salinity.
Prevailing winds are winds that blow from a single general direction over a particular point on the earths surface.Coriolis effect is an apparent deflection of moving objects.

B.Oceans and the atmosphere constantly interact with each other in transferring energy for example evaporation from warm oceans removes heat from the atmosphere as water vapour and the condensation of this vapour at height releases the heat. The surface winds drive the ocean currents move warm water polewards and cold water equator wards. Since conditions in the atmosphere change much more rapidly than in the ocean the atmosphere and oceans alter continuously in response to each other. Heat transfer the rays from the sun will send heat to the ocean and the heat would make currents hot.

The term thermohaline circulation refers to the part of the large-scale ocean circulation that is driven by global created by surface heat and freshwater fluses the adjective thermohaline derives from referring to temperature.

http://wiki.answers.com/Q/How_do_currents_transfer_heat_in_the_ocean#ixzz1678vVh70