

Study Guide: Physical and Chemical Oceanography

Physical oceanographic processes controlled by:

- 1) Temperature - gives control by atmospheric heating and cooling which expands (hot) and contracts (cold) water, causing differences in density
- 2) Salinity - water moving through salt balance from evaporation/precipitation and ice melt and freezing respectively, leading to higher salinity in oceans and lower salinity in ice
- 3) Geological characteristics - physical structure (topography) determines where water can flow and where it is held

Physical processes and properties in lakes:

- 1) Temperature - water contracts as temperature drops
- 2) Stratification - water contracts as temperature drops, causing density to increase

How temperature and salinity profiles form in open oceans:

Temperature differences across ocean basin:

- 1) Atmospheric heating causes water to warm in the tropics
- 2) Wind-driven surface currents transport the warm water away
- 3) Areas that experience increased precipitation or high evaporation are cooled by the atmosphere

Salinity differences across ocean basin:

- 1) Water cools at poles, causing the thermal water to contract
- 2) Water with higher salinity and lower density floats on top of water with higher density
- 3) Increased evaporation increases salinity in the tropics
- 4) The high salinity water sinks and drifts back to the high latitudes

Waves:

How regular rise and fall of sea level is explained by the difference in sea level

Gravitational effects:

on the Earth's mass, Earth causing variation in sea level

Barotropic/baroclinic - in the difference in depth between the water surface

Waves:

Planetary short waves - large scale weather systems

Long waves

are generated by atmospheric pressure field changes

Physical Oceanography Study Guide

M Tight



Physical Oceanography Study Guide:

Adopting the Beat of Term: An Psychological Symphony within **Physical Oceanography Study Guide**

In a global eaten by displays and the ceaseless chatter of instantaneous transmission, the melodic elegance and mental symphony produced by the published term often diminish into the back ground, eclipsed by the constant noise and distractions that permeate our lives. Nevertheless, set within the pages of **Physical Oceanography Study Guide** a marvelous literary prize overflowing with natural thoughts, lies an immersive symphony waiting to be embraced. Constructed by a wonderful musician of language, that fascinating masterpiece conducts visitors on an emotional trip, well unraveling the concealed tunes and profound impact resonating within each carefully crafted phrase. Within the depths with this moving review, we can explore the book is key harmonies, analyze their enthralling publishing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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