

Study Guide: Physical and Chemical Oceanography

Effective composition of ocean water determined by:

- 1) salinity - given defined by mass percentage of water which is dissolved during evaporation, condensation, sublimation, desublimation of water vapor molecules
- 2) total - water moving through salt balance from atmosphere to ocean, and vice versa
- 3) biological processes - phytoplankton, zooplankton, bacteria, and other organisms that live in the ocean

Effective composition and properties of water:

- 1) salinity - mass percentage of water which is dissolved during evaporation, condensation, sublimation, desublimation of water vapor molecules
- 2) total - water moving through salt balance from atmosphere to ocean, and vice versa

How temperature and salinity gradients form in ocean water, relative to density differences:

Temperature differences alone cause density:

- 1) warm water is less dense than cold water
- 2) warm water is less dense than cold water
- 3) warm water is less dense than cold water

Salinity differences cause density:

- 1) warm water is less dense than cold water
- 2) warm water is less dense than cold water
- 3) warm water is less dense than cold water

Notes:

How temperature and salinity gradients form in ocean water, relative to density differences:

Temperature differences:

on the left, warm water is less dense than cold water.

Salinity differences: on the right, warm water is less dense than cold water.

Notes:

How temperature and salinity gradients form in ocean water, relative to density differences:

Temperature differences:

on the left, warm water is less dense than cold water.

Physical Oceanography Study Guide

K Morrison



Physical Oceanography Study Guide:

Physical Oceanography Study Guide Book Review: Unveiling the Power of Words

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