

Study Guide: Physical and Chemical Oceanography

Effective composition of ocean water determined by:

- 1) salinity - given defined by mass percentage of water which depends on the amount of water which has evaporated or which has precipitated
- 2) total - water moving through salt balance from evaporation/precipitation and from inflow/outflow of water
- 3) biological processes - phytoplankton consumption of CO₂ and release of O₂ and other gases

Effective salinity and composition in water:

- 1) salinity - mass percentage of water which is given by the amount of water which has evaporated or which has precipitated
- 2) total - water moving through salt balance from evaporation/precipitation and from inflow/outflow of water

How temperature and salinity produce density and volume expansion/contraction:

Temperature differences cause water to expand:

- 1) water expands when heated - water expands when heated
- 2) water contracts when it cools - water contracts when it cools
- 3) water's thermal expansion coefficient is the ratio of the change in volume to the change in temperature

Salinity differences cause water to contract:

- 1) water contracts when heated - water contracts when heated
- 2) water expands when cooled - water expands when cooled
- 3) water's thermal expansion coefficient is the ratio of the change in volume to the change in temperature

Water:

Water is a liquid and has a high specific heat capacity so it can absorb a lot of heat without changing temperature much.

Thermal expansion:

Water expands when heated and contracts when cooled.

Thermal expansion coefficient: is the ratio of the change in volume to the change in temperature

Water:

Water's thermal expansion coefficient is the ratio of the change in volume to the change in temperature

Thermal expansion coefficient:

is the ratio of the change in volume to the change in temperature

Physical Oceanography Study Guide

Mark Steyvers



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