

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) Temperature - water moving through salt by heat from atmosphere through molecular motion and by moving substances, including dissolved salts and all dissolved substances
- 3) Chemical composition - the chemical composition of water is determined by the amount of water which has evaporated or which has precipitated

Effective composition and properties of water:

- 1) Salinity - mass percentage of water which is determined by the amount of water which has evaporated or which has precipitated
- 2) Temperature - mass percentage of water which is determined by the amount of water which has evaporated or which has precipitated

How temperature and salinity produce density and volume changes:

Temperature differences cause water to expand:

- 1) Temperature - water expands as it warms and contracts as it cools
- 2) Salinity - water contracts as it warms and expands as it cools
- 3) Volume - the volume of water expands as it warms and contracts as it cools

Salinity differences cause water to contract:

- 1) Salinity - water contracts as it warms and expands as it cools
- 2) Volume - water contracts as it warms and expands as it cools
- 3) Temperature - water expands as it warms and contracts as it cools
- 4) Salinity - water contracts as it warms and expands as it cools

Notes:

How temperature and salinity affect density and volume changes:

Temperature effects:

on the left, water, which contracts as it warms and expands as it cools.

Salinity effects: - the difference in density between the water and the atmosphere

on the right, water, which contracts as it warms and expands as it cools.

How temperature and salinity affect density and volume changes:

Temperature effects:

on the left, water, which contracts as it warms and expands as it cools.

Physical Oceanography Study Guide

Jicheng Xie



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