

Study Guide: Physical and Chemical Oceanography

Effect of composition of ocean water affected by:

- 1) salinity - given defined by mass percent of dissolved salts in water which depends during evaporation, condensation, sublimation, desublimation of water vapor molecules.
- 2) fresh - water moving through salt to lower, from atmosphere through atmosphere, rain, and ice melting sublimation, resulting freshwater, fresh water and all dissolved substances.
- 3) biological processes - phytoplankton, zooplankton, bacteria, and other organisms and changes, biogeochemical ocean cycle for fresh water cycle in ocean.

Effect of salinity and temperature on density:

- 1) density - mass per volume, $\text{density} = \frac{\text{mass}}{\text{volume}}$
- 2) temperature - related to kinetic energy, $\text{temperature} = \frac{\text{kinetic energy}}{\text{mass}}$

How temperature and salinity produce density water relative to surface water:

Temperature differences alone cause density:

- 1) warm water is less dense, cold water is more dense.
- 2) warm, shallow water is floating on a colder, denser water below.
- 3) when the temperature decreases, density of the water increases, is referred to as, the stratification.

Salinity differences cause density:

- 1) higher salinity is more dense, the density of water increases.
- 2) water with higher salinity, and lower density, float's on top of water with higher salinity.
- 3) density (mass) increases as salinity increases, decreases.
- 4) the higher the salinity, the higher the density of the water, as the temperature increases.

Effect:

low salinity and high temp is referred to as the lightest, is less dense.

Temperature effects:

on the left, warm, high salinity water, dense water.

Salinity effects: - the difference in weight between the water, which

has a high salinity and high temp, is less dense, is less dense.

Salinity effects: - the difference in weight between the water,

on the left, high salinity, high temp, is less dense, is less dense.

Physical Oceanography Study Guide

SJ Ball



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