

# Study Guide: Physical and Chemical Oceanography

## Effective composition of seawater is determined by:

- 1) Primary salinity - given amount of dissolved solids with respect to total weight, freshwater composition consists of 96.5% water and 3.5% solids
- 2) Source - water moving through salt balance from atmosphere through evaporation and precipitation, and ice melting/refreezing, resulting in different salinities, therefore not all seawater is identical
- 3) Secondary salinization process - physical/chemical processes, biologically induced changes and changes in chemical composition occur locally for factors such as evaporation

## Effective salinity and composition on salinity:

- 1) Equivalent - same composition, same weight
- 2) Equivalent weight - equivalent to weight of same amount of water

## How temperature and salinity produce density, water volume, negative expansion:

### Temperature differences cause water layers:

- 1) warm water rises above cold water, cold water is more dense
- 2) warm, less dense water is floating on a colder, denser water mass
- 3) when the temperature difference persists, the water becomes so different in its characteristics

### Salinity differences cause water layers:

- 1) water with a lower salinity is less dense than water with a higher salinity
- 2) water with higher salinity, and lower density, floats above water with higher salinity
- 3) density (mass) increases as salinity increases, therefore denser
- 4) the higher the salinity, the more dense the water is, so the more dense the water is, the more dense the water is

### Water:

How water moves and how it is affected by the atmosphere is also studied.

### Geographical effects:

on the Earth, water covering almost 70% of the Earth.

### Physical/chemical/biological: in the atmosphere is studied because the water is so important

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# Physical Oceanography Study Guide

**Wenbin Ji**



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