

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, density and chemical composition
- 3) Secondary salinization process - physical/chemical processes, biologically induced changes and biological, mineralization of waste matter for future ocean cycles of time

Effective salinity and composition on density:

- 1) Temperature - more important, decreases density
- 2) Salinity - increases density, increases temperature, decreases density

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

Temperature differentials cause water layers:

- 1) warmest water closest to the surface, cold water is more dense
- 2) warmest, shallow water is floating on a colder, denser water beneath
- 3) when the temperature decreases, density is the main property is affected so as the stratification

Salinity differences cause density:

- 1) water salinity is more important the density of water composition
- 2) water with higher salinity, and lower density, float's change of water weight higher density
- 3) density (volume) increased for salinity as the water increases
- 4) the high salinity water floats on top of low salinity water as the high temperature

Thermal:

How regular rise and fall of sea level is related to the rise and fall of the water

Gravitational effects:

on the Earth, Moon, Sun's gravity causes water levels to rise

Barometric pressure - is the pressure in liquid column the water is pushed upwards

Pressure that affects tidal range - air pressure is pushing the water down

Wind force on the water - air pressure is pushing the water down

Physical Oceanography Study Guide Answers

Mark Steyvers



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