

Study Guide: Physical and Chemical Oceanography

Effective composition of seawater controlled by:

- 1) Primary salinity - given amount of dissolved solids with respect to water (mostly sodium chloride) - composition of solids (composition)
- 2) Source - water coming through salt balance from atmosphere (precipitation) and from land (melting glaciers, icebergs, rivers) and all dissolved substances
- 3) Secondary salinization process - physical (evaporation) and chemical (precipitation) of ions (sulfate and borate), and chemical (all ions) from the water (mostly sodium chloride)

Effective salinity and composition on salinity:

- 1) Primary - from composition of dissolved solids
- 2) Secondary - from physical and chemical processes (evaporation, precipitation)

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

Temperature differences cause water layers:

- 1) warm water is less dense - with same amount of water
- 2) warm, less dense water is floating on a colder, denser water (stratification)
- 3) when the temperature difference is small, the density difference is reduced to so, the stratification

Salinity differences cause water layers:

- 1) water with higher salinity is denser (more water molecules)
- 2) water with higher salinity, and lower temperature, floats above of water with higher salinity
- 3) density (salinity) increases as salinity increases (temperature)
- 4) the higher the salinity, the higher the density (the higher the salinity, the higher the density)

Volume:

How water molecules and salt molecules are related to the density of the water.

Temperature effects:

on the water, water expands when it gets warmer.

Salinity effects: - the difference in weight between the water and the salt.

Pressure effects: - the pressure of the water (the weight of the water)

Volume effects: - the volume of the water (the weight of the water)

Physical Oceanography Study Guide

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Physical Oceanography Study Guide:

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Physical Oceanography Study Guide**

In a world inundated with displays and the cacophony of quick connection, the profound power and psychological resonance of verbal artistry usually disappear in to obscurity, eclipsed by the constant barrage of sound and distractions. Yet, set within the lyrical pages of **Physical Oceanography Study Guide**, a charming function of fictional elegance that pulses with natural emotions, lies an wonderful journey waiting to be embarked upon. Published by a virtuoso wordsmith, that exciting opus courses visitors on an emotional odyssey, lightly revealing the latent possible and profound impact stuck within the complex web of language. Within the heart-wrenching expanse of the evocative analysis, we will embark upon an introspective exploration of the book is key themes, dissect their fascinating writing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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