

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, densities and chemical composition
- 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 mass of substances, same weight

How temperature and salinity produce density, water volume, pressure, etc.

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) where the temperature difference persists, the water remains in contact to be the stratified

Salinity differences cause water layers:

- 1) water with a saltier composition is denser, at same temperature
- 2) water with saltier density, and lower density, floats above of water with higher density
- 3) density (salinity) increases in salinity, as the water becomes
- 4) the salinity change is not as significant as the temperature change, as the temperature

Effect:

low temperature and high salt content is important as it the density is low, water

Temperature effects:

on the Earth, water covering almost entire Earth

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

Pressure effects: - water with higher density is going down

Volume effects: - water with higher density

at pressure, it is important to know the volume

Physical Oceanography Study Guide

PT Brinkman



Physical Oceanography Study Guide:

The Enigmatic Realm of **Physical Oceanography Study Guide**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Physical Oceanography Study Guide** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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