

Study Guide: Physical and Chemical Oceanography

Effective composition of seawater is determined by:

- 1) seawater salinity - given defined by composition of various salts found which depends during weather, evaporation, condensation, precipitation of fluids, condensation, etc.
- 2) Source - water moving through salt to water from atmosphere, flowing through rocks and ice moving substances, including dissolved minerals, salts and all chemical substances.
- 3) Biological processes - the biological processes, including photosynthesis, which change the composition of seawater, including the amount of oxygen and nitrogen, which are used for various other parts of the sea.

Effective composition and properties of water:

- 1) Temperature - water composition, temperature, etc.
- 2) Salinity - the amount of salt in water, which is determined by the amount of water and the amount of salt.

How temperature and salinity produce density, which is the most important property of seawater:

Temperature differences cause water density:

- 1) Temperature - water density is higher when the temperature is lower, which is why water is denser when it is colder.
- 2) Salinity - the amount of salt in water is higher when the temperature is lower, which is why water is denser when it is colder.
- 3) Effect of the temperature difference - the density difference is affected by the temperature difference.

Salinity differences cause water density:

- 1) Salinity - the amount of salt in water is higher when the temperature is lower, which is why water is denser when it is colder.
- 2) Effect of the salinity difference - the density difference is affected by the salinity difference.
- 3) Temperature difference - the density difference is affected by the temperature difference.
- 4) Salinity difference - the density difference is affected by the salinity difference.

Notes:

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Physical Oceanography Study Guide

AW Rasmussen



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