

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 is 96.5% composition
- 2) Source - water coming through salt balance from atmosphere, rivers, rain, and ice melting contributes, resulting in different salinities, but all derived from same
- 3) Biological processes - phytoplankton, zooplankton, bacteria, and other organisms contribute to the salinity of the water

Effective salinity and composition in water:

- 1) Salinity - mass percentage, composition
- 2) Composition - mass percentage, composition

How temperature and salinity produce density, water volume, and pressure:

Temperature differences cause water density:

- 1) Expansion - water expands as temperature increases
- 2) Contraction - water contracts as temperature decreases
- 3) Effect - the temperature difference causes the water to expand or contract, which affects the density

Salinity differences cause water density:

- 1) Water - water expands as salinity increases
- 2) Water - water contracts as salinity decreases
- 3) Effect - the salinity difference causes the water to expand or contract, which affects the density

Water:

How water moves and how it is affected by the forces it is in contact with.

Water density:

on the left, water, right, water, water, water, water.

Water composition: - the difference in weight between the water and the air.

Water:

Water's most effective salt - water's most effective salt is sodium.

Water composition:

on the left, water, right, water, water, water, water.

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