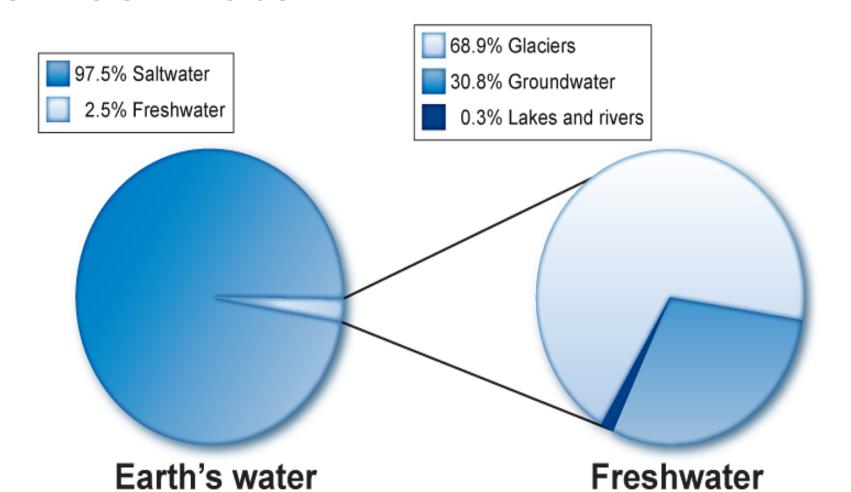
3.3- Part 1 Freshwater Ecosystems

Freshwater- without salt ex: river, lake

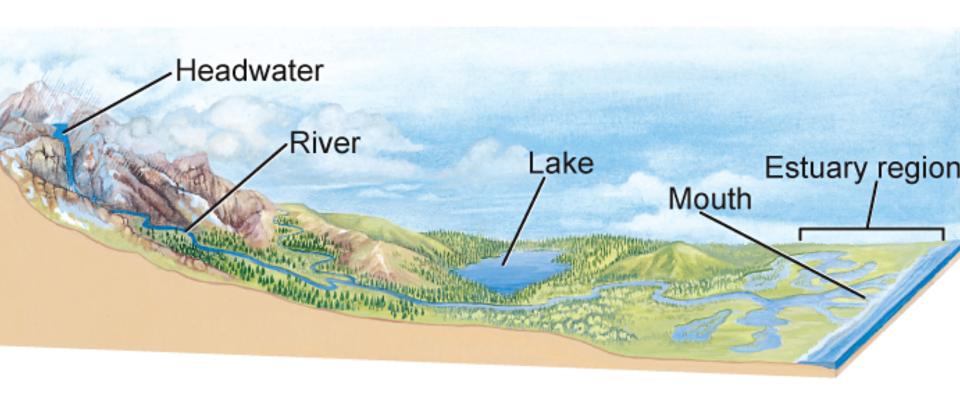
marine- with salt ex: ocean

-Only 2.5% of the water on Earth is freshwater.



Rivers and streams

- Water flows one direction.
- Slope determines the direction and speed
- Sediment material deposited by water, wind, or glaciers.



Interactions between land and water result in

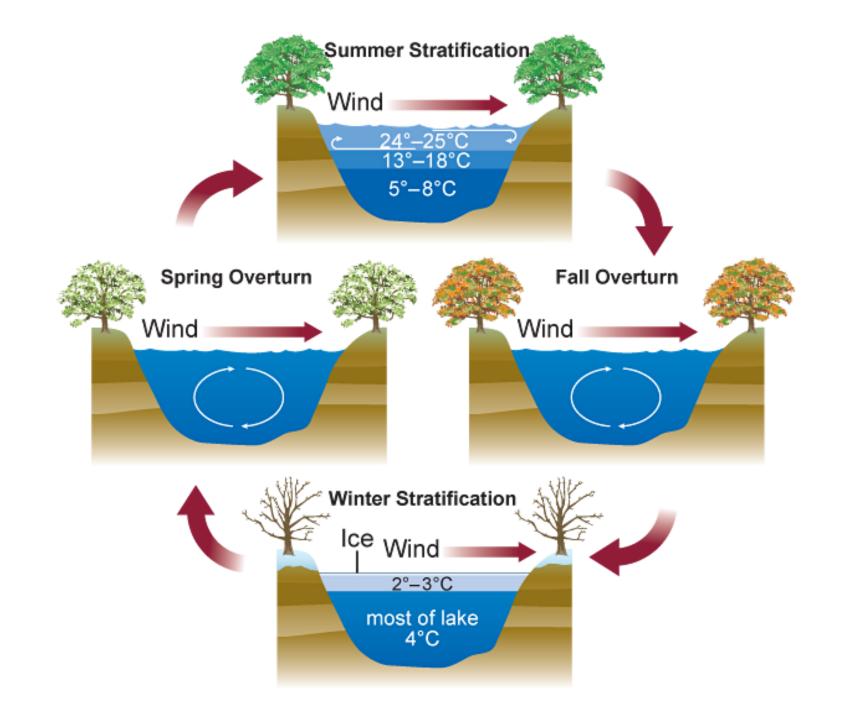
- -differences in erosion
- -nutrient availability
- -species diversity

• Fast moving water: less sediment and organic matter; fewer species

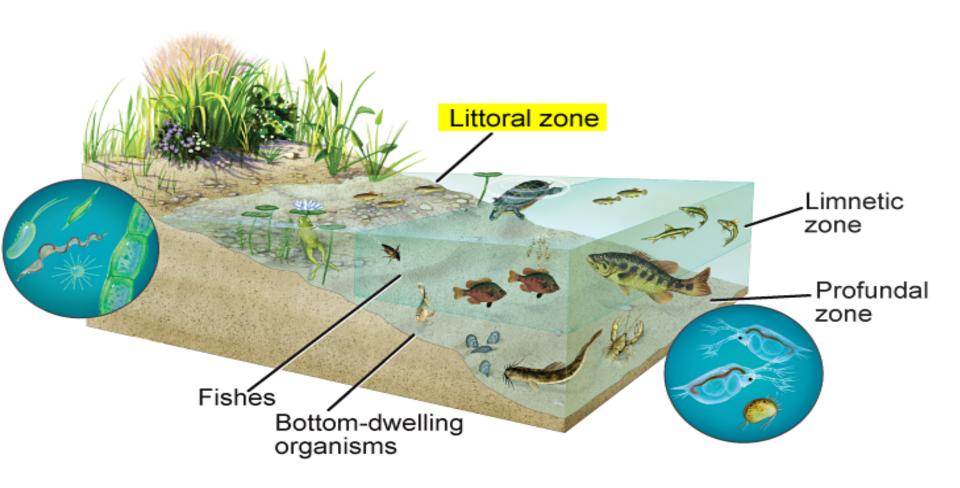
 Slow moving water: sediment is deposited as mud, silt, and sand; supports a diversity of plant and animal species

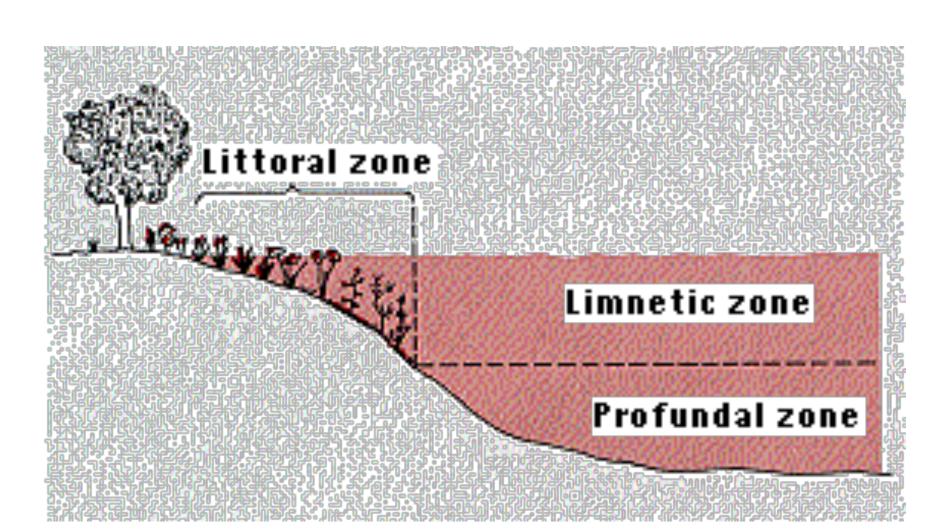
Lakes and ponds

- inland body of standing water
- Temperature varies with seasons.
- Turnover circulates nutrients and oxygen



Lakes and Ponds are divided into three zones based on the amount of sunlight that penetrates the water.





Littoral zone

- -Shallow- closest to shore
- -sunlight reaches the bottom
- highly productive area with numerous producers

Limnetic zone

- -open water, well lit.
- –Phytoplankton are main producers
- Home to many fish

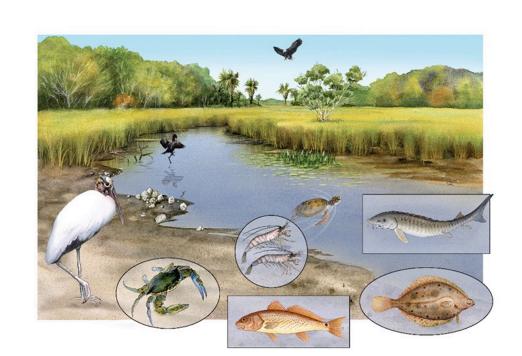
profundal zone

- -deepest part.
- –Little sunlight
- -Colder and lower in oxygen

Transitional Aquatic Ecosystems

Wetlands areas saturated with water, home to aquatic plants. High level of species diversity.

ex; marshes, swamps, and bogs



Estuaries are where freshwater from a stream or river meets saltwater from the ocean.

