Open Ocean Amrat Tahir

Where is it?





The oceans are large compared to the amount of land, where the other 8 biomes are found.

Layers

- Epipelagic Zone: Sea surface- 200 meters
- Mesopelagic Zone: 200-1,000 meters
- Bathypelagic Zone: 1,000-4,000
- Abyssopelagic Zone: 4,000-6,000
- Hadalpelagic Zone: 6,000-ocean floor.



Precipitation

- Temperature changes in the western oceans are more dramatic than the eastern oceans.
- This results in increased rainfall.
- Receives up to 250 inches (on average) of rain per year, depending on the location of the ocean.



Soil

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The ocean floor is composed of three different types of soil. They include calcareous ooze, pelagic red clay and siliceous ooze. Calcareous ooze: most common. 48% of ocean floor. Red clay: 38% of ocean floor. Siliceous ooze: 15% of ocean floor.



Vegetation

SEAWEED: Only able to grow in the areas of the ocean that receive sunlight.

ALGAE: hundreds of plant-like organisms. (red, coralline, coral)

SEAGRASS: grows in shallow water on the ocean floor because it needs lots of sunlight.







Animals

- A great variety of animals inhabit the open ocean biome
- Range in size from microorganisms to the mammoth blue whale that can be up to 110 feet long.
- 90% of all marine organisms lives in the upper zone of the ocean to receive sunlight.





Climate Change On Oceans

- Ocean acidification
- Sea levels rising- "erosion, flooding and rising groundwater levels will threaten buildings, roads, subway systems..."

2000

2005

Melting ice caps

1985

980

Climate Change on Animals

- Polar bears are threatened
- Decline in penguins- caused by disappearing sea ice
- Seals as well

Facts

- The ocean biome is home to the largest known mammal of the world the blue whale.*
- Humans have only explored about 10% of the ocean biome. *
- Ninety percent of the ocean is completely dark and receives no sunlight. This zone is known as the midnight zone.*
- The world's oceans contain nearly 20 million tons of gold.*

*Taken directly from http://oceanbiome2.wikispaces.com/Ocean+Biome+Fun+Facts or

http://www.softschools.com/facts/biomes/ocean_biome_facts/164/

Citations

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