EARTH BIOMES

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Our actions and interactions determine the place in which we live...

WHAT IS A BIOME?

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- ☐ Is a large group of similar ecosystems, usually identified by the abundance of certain types of plants.
- A biome can have diverse regional climates.
- According to the solar radiation, biomes have specific climatic zones that determine the kind of plants that can grow on them.

KINDS OF BIOMES

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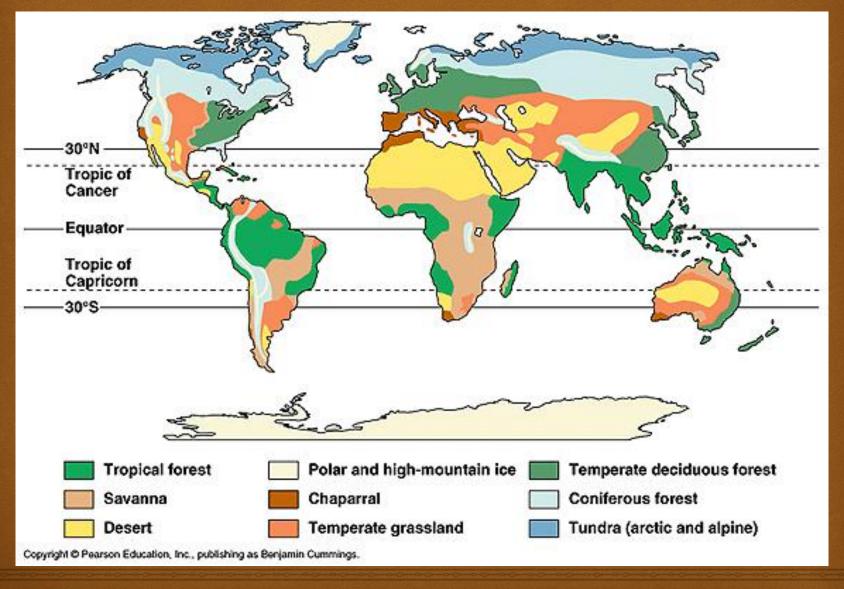
CALAND BIOMES

Determined by the climate, and the plants that grow on it.

WATER BIOMES

Determined by the abiotic factors such as light, temperature, and the amount of salt, oxygen and nutrients dissolved.

LAND BIOMES





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™Coniferous trees grow close together.

Winters are long and cold.

Summers are relatively mild







- RTall deciduous trees grow on temperate forests.
- The leaf litter is an ideal habitat for a wide variety of small animals.
- There are four marked seasons in the year.
- The top layer of the soil is rich in nutrients and humus.

CHAPARRAL

Plants and animals have special adaptations to avoid dehydration.

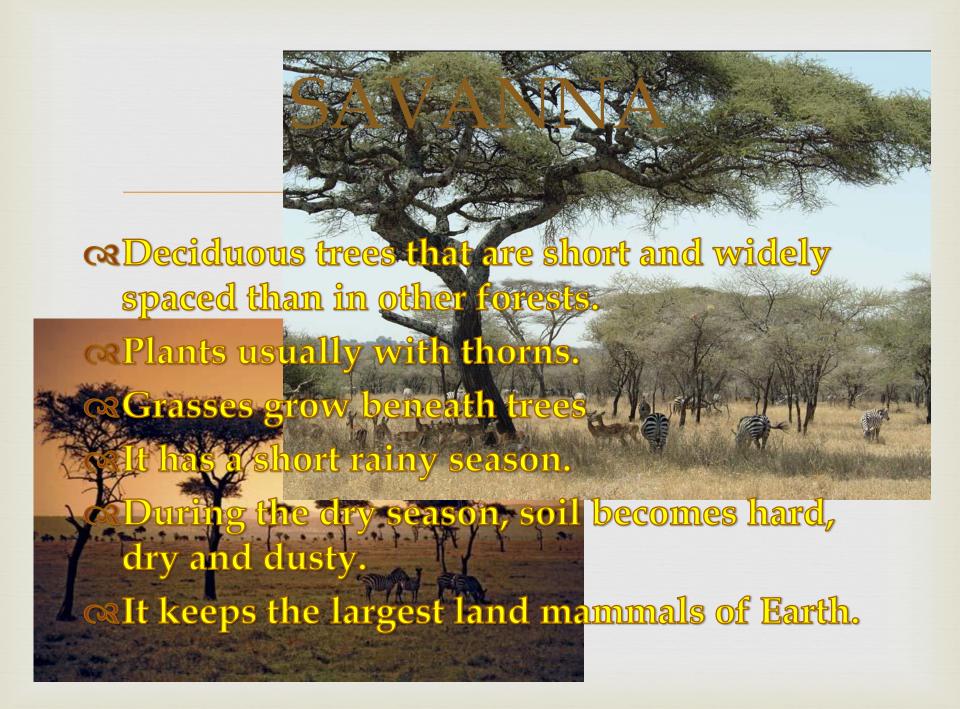
PICAL RAINFOREST

- Warm wet weather.
- Tall trees form a dense canopy about 50 m above the ground where water and gases are recycled keeping the humidity.
- Smaller plants have wide leaves to reach the sunrays from the canopy.
- The soil is very poor in nutrients because dead organisms that fall to the floor are decomposed and recycled rapidly.
- Plants and animals are colorful.
- ©2009 Great biodiversity.





- Arid regions with sparse plant life.
- Extremely dry and hot sand dunes.
- Very cold nights because of the absence of clouds.
- Organisms plenty adapted to keep safe from dehydration and sunburns.



GRASSLAND

Widespread communities of grass and small plants.

A cycle of fires and dry spells avoid the growing of tall trees and shrubs, despite the presence of rich soils.

Resence of grazing animals.

Winter is cold and windy and summer is hot and diry.

WATER BIOMES

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FRESH WATER BIOMES

FLOWING WATER

Moving water picks up sediment and carries it downstream. Over long periods of time, water can level mountains, cut deep canyons and deposit sediments to create landforms.

STANDING WATER

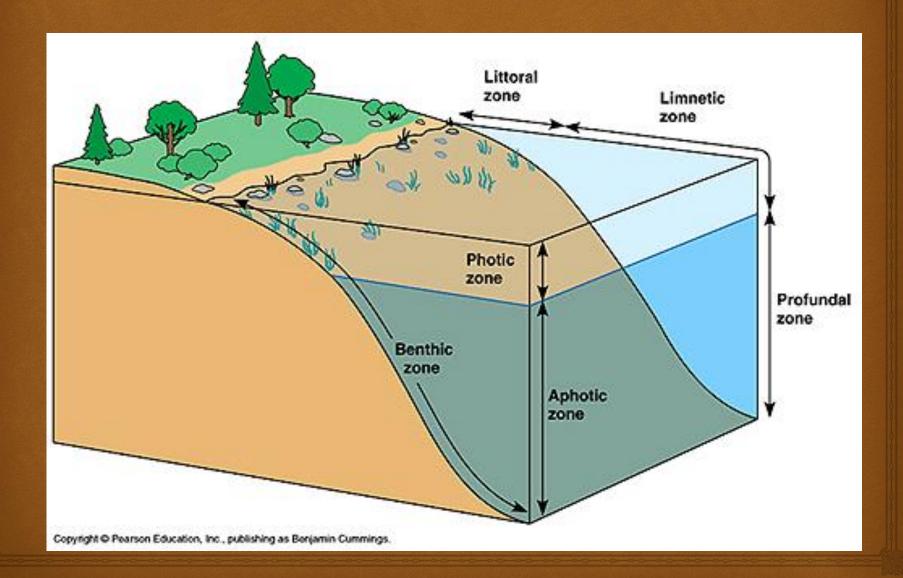


WETLANDS

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- Are regions covered by the water of rivers or oceans close to them.
- Inland wetlands include marshes, swamps and bogs.
- Coastal wetlands are continually or periodically flooded with salt water as mangroves.
- Estuaries are zones in which rivers meet the sea, so fresh water mixes with salt water

LAKE ZONATION

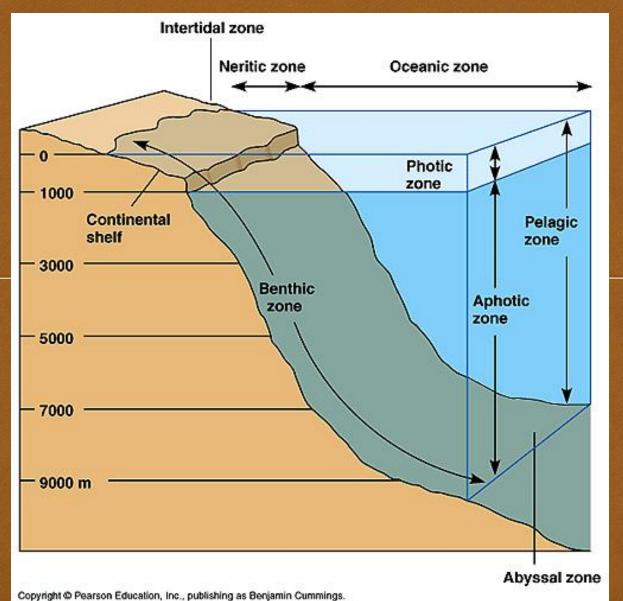




More than 70 percent of Earth is covered by the marine biome. The marine biome includes the oceans and the shorelines.

Light, temperature and water pressure vary with depth the same as salinity.

MARINE ZONATION



INTERTIDAL AND NERITIC ZONES

The intertidal zone lies at the edge of the ocean. Organisms in the intertidal zone must survive extreme variations in both temperature and salinity.

The neritic zone lies over the continental shelf and is rich in mineral nutrients. Light penetrates to the bottom allowing the growth of algae and phytoplankton.

OCEANIC AND PHOTIC ZONES

In the oceanic zone, nutrients are scarce, so the variety of organisms is less dense than in the neritic zone. The organisms are pelagic (free-swimming)

In the photic zone light penetrates to a depth of about 200 m. It is home of phytoplankton, source of energy of zooplankton that is eaten by larger animals.

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Remthic zone is inhabited by dwelling organisms located in the continental slope.

In the aphotic zone sunlight hardly penetrates photosynthesis cannot take place so organisms live incomplete darkness. Some organisms are bioluminescent, it is that they produce their own light.

We are part of this ecosystem called Earth, so we must think about the consequences of our actions, because for sure they will affect us too for good or bad.

THANKS....