



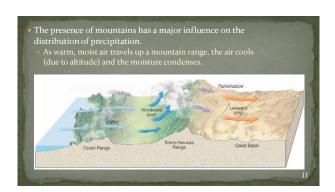


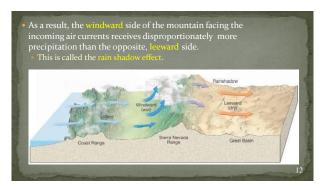


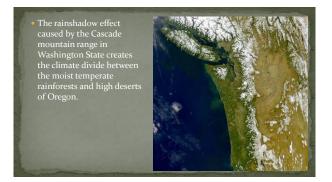
Biomes located near a large body of water often have greater precipitation levels and milder, more stable temperatures.

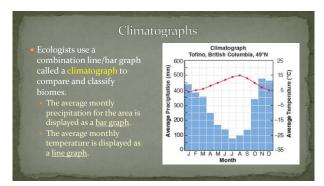
Water gains and loses heat much more slowly than air.

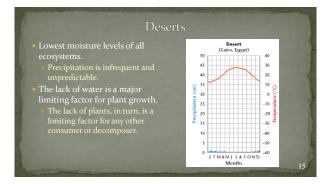
The nearby water evaporates and fuels incoming storm systems.

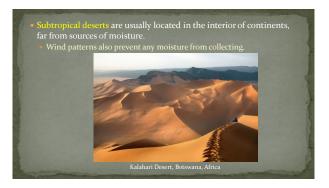








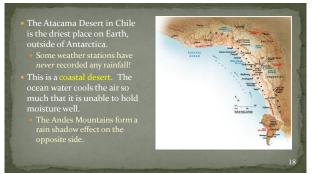


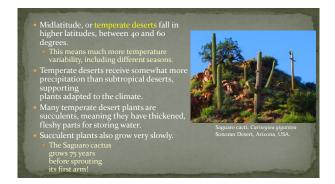


Rain shadow deserts are formed primarily due to their position on the leeward side of a large mountain range.

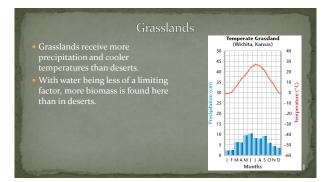
 The Gobi desert falls on the leeward side of the Himalayan mountains.

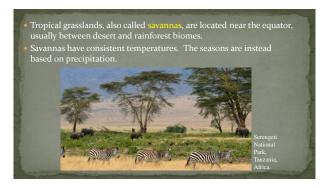
 The Cobi desert falls on the leeward side of the Himalayan mountains.



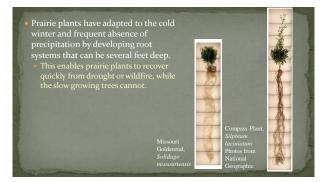






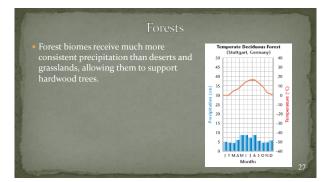


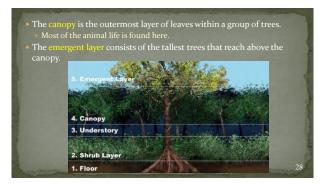




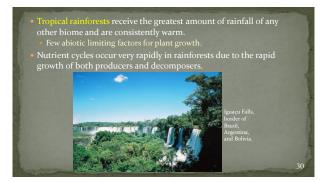


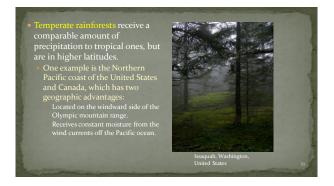


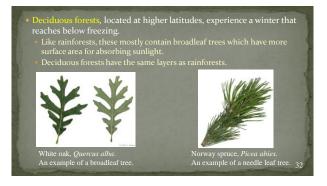












Broadleaf trees lose moisture rapidly through transpiration, so they will shed their leaves during winter or dry seasons.

Dandenong Ranges, Australia.

Boreal forests, also called taiga, are found throughout the far northern latitudes.

 These forests are characterized by coniferous trees, which are much more well-adapted to the long, cold, dry winters.

 Needle-shaped leaves have a waxy coating that retains moisture in the winter.

 The cone shape of the trees allows accumulated snow to slide to the ground.

Fairbanks, Alaska, United States.

Ecosystems in Transition

Biomes are dynamic - they change as the Earth changes. This process is called succession.

Organisms that thrive during the early stages of succession are called pioneer species. Those only found in later stages are called climax species.

Ecosystem succession takes two forms, depending on the starting point.

Primary succession occurs when a new ecosystem develops where there was none before.

A combination of wind, water, and pioneer species such as lichens break down rock into soil.

Once the soil has enough organic matter, small plants and shrubs can be supported. Over time, trees spout and become dominant.

Primary Succession

Primary Succession

Crawdown forces forces

Crawdown forces

