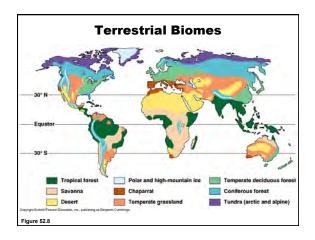


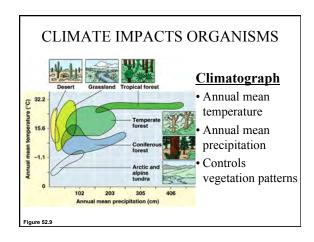
Biomes:

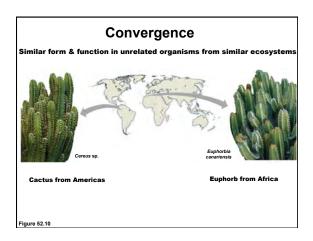
the major types of ecosystems

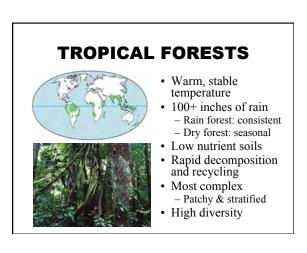
Terrestrial biomes

- · Primary determining factors
 - Temperature (latitude, altitude)
 - Water availability (rainfall)
- · Secondary determining factors
 - Substrate (soil type)
 - Photoperiod (latitude again)
 - Wind (evaporative cooling, physical stress)
 - Disturbance (fire, volcano, mudslide, storm, etc.)









SAVANNA BIOME



- · Warm temperature
- Low but consistent rainfall
- Less structure and diversity
- Fire and grazing prevent tree invasion

DESERT BIOME



- Temperature extremes
- Precipitation infrequent
- Evaporation exceeds precipitation
 - Life keyed to rainfall
 - Adaptations for water conservation
- 30° north and south
- Rain shadow

CHAPARRAL BIOME



- "Mediterranean climate"
- · Cool offshore currents
- · Mild rainy winters
- · Long hot summers
- Frequent fires
- Vegetation adapted to fire

TEMPERATE GRASSLANDS



- Cold winters
- · Seasonal drought
- Occasional drought
- · Grazing and fire



- Deep fertile soils
- Human impact

TEMPERATE DECIDUOUS (BROADLEAF) FOREST



- 35° to 50° north and south
- Ample precipitation
- Warm summers and cold winters
- Deciduous vegetation
- Rich soils
- Many human impacts

CONIFEROUS FORESTS

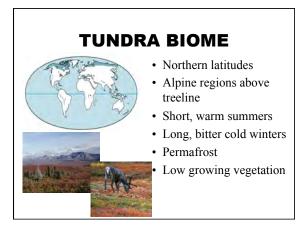


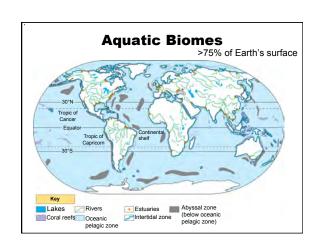
Largest terrestrial biome

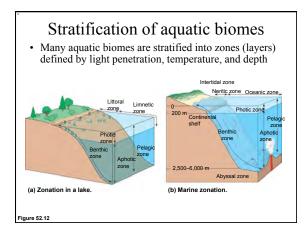
- · Short summers
- · Harsh winters
- · Poor soils
- · Cone bearing trees
- · Fire maintained
- Temperate rain forests in northwestern North America

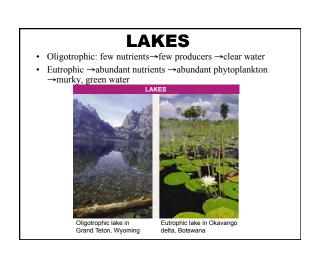


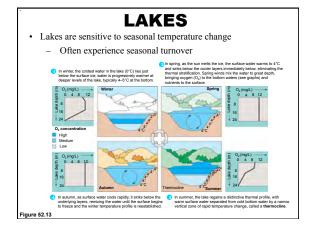


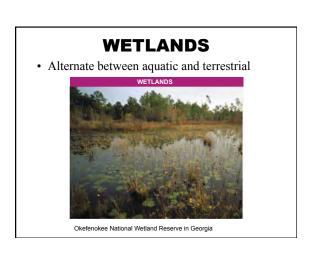


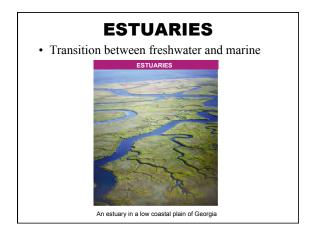


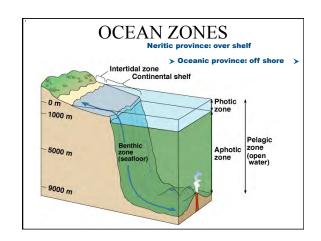


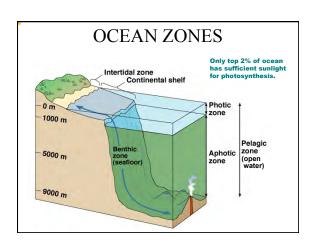


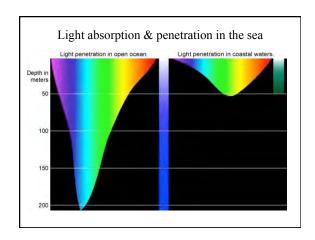




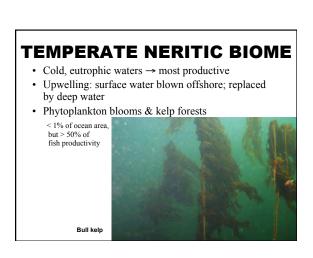


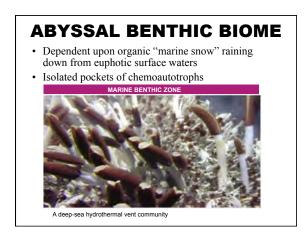


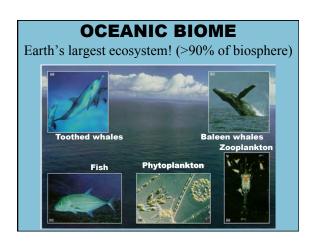




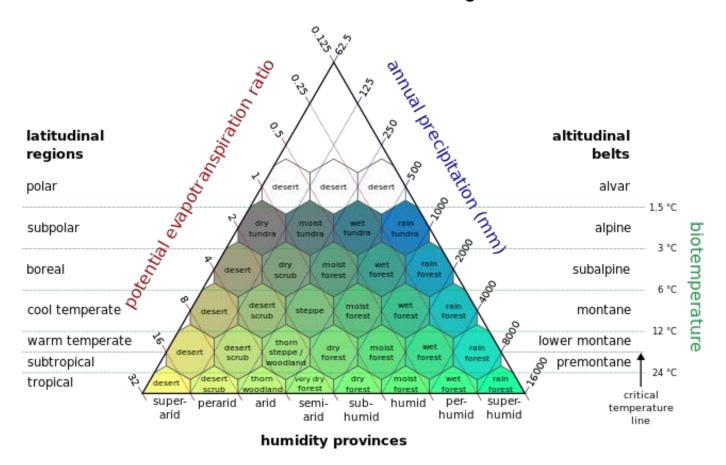
TROPICAL NERITIC BIOME • Warm, stratified, oligotrophic waters • Coral reefs — "oases in the desert" CORAL REEFS Coral reef in the Red Sea







Holdridge lifezone classification chart For use with the *Climate Zones & Biomes* guest lectures



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