

Bio

Biomes / Biotic Communities

10-4-12

- > Depends on classification
- > Scale matters
 - Biomes = global classifications
 - Biotic communities = state-wide (assemblages of specific plants, etc)
- > Abiotic factors
 - Soil, Water, Temp, Phys. Geography, Laws of Physics
Climatic determinants
- > Biome = large geo area w/ animal & plant groups and their subsets
- > 2 kinds of plants
 - Generalists: can grow/survive in a variety of conditions
 - Specialists: grow in specific area w/ specific requirements
 - Indicator species (a species that indicates what community you are in, esp. when more than 1 is avail.)
 - Figure out the indicator species for ea. community then, find
- > Physics of Atmosphere
 - Hot air rises / Cold air falls
 - As hot air rises it cools off / cool air heats up as it falls
 - When air = warm it can hold a lot of water vapor; cold air can't
- > Formation of Rain
 - Hot air (w/ H₂O) rises due to warming of ground by the sun
 - Air cools in higher atmosphere and causes the moisture to fall

> Formation of Rain Shadows

- Warm air from oceans toward land, rises
- Rising air (w/ moisture) cools, releases moisture on its way up mountains
- Once over mountain, air falls, warms, reduces rainfall \Rightarrow dry areas