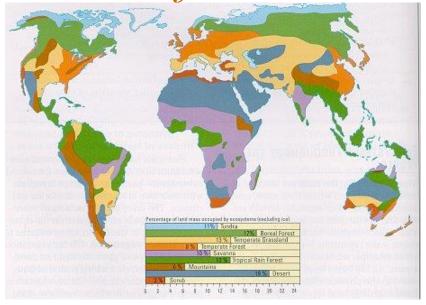


Unit 3 Part 3 Ecosystems of the world

p. 101 - 109



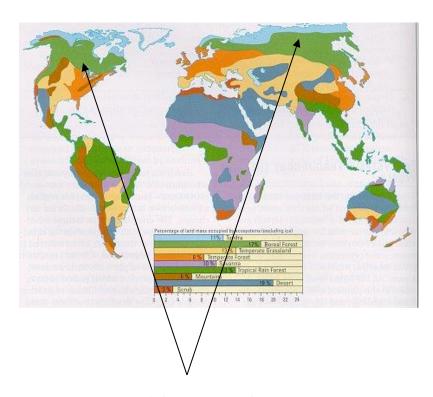
17. Define "climax vegetation" p. 102



- The natural vegetation in the last possible stage of vegetation development.
- Climax vegetation is stable and in balance with the climatic conditions
- It should change very little if left undisturbed



18. Describe "climax vegetation" in coniferous forest. P. 102

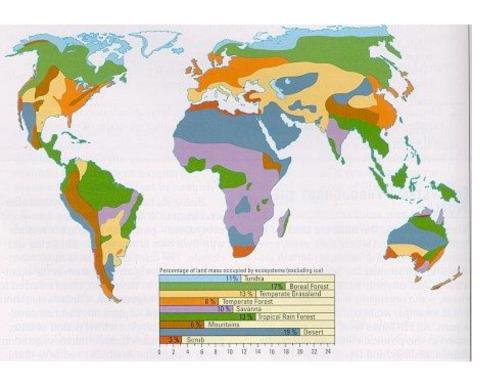


Coniferous forests

- Evergreen trees
- Needle like leaves
- Thick bark
- Conical shape
- Dense growing which blocks sun



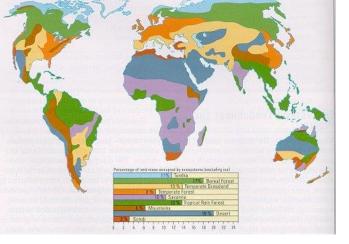
19. Analyze world ecosystem map.



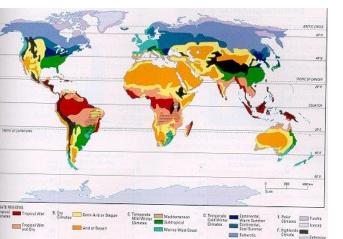
- a. Boreal Forest & tundra are wide spread in high latitudes
- b. Tropical Rain Forests occur in low latitudes
- c. Tropical Rain forest is most predominant in South America.
- d. South America, Africa,
 Australia and Antarctica do
 not have tundra.
- e. Boreal forest is our ecosystem



20. Ecosystems vs. climatic regions p.104



Ecosystem zones



Climate zones

- Ecosystems of the world are largely defined by their climax vegetation.
- Example: tropical rain forest, grasslands, boreal forests, cacti, etc.
- Climax Vegetation is determined by climate. Therefore, ecosystems parallel climate zones



20. Continued (Ecosystems vs. climatic regions p.104)

Temperate cold winter gives Boreal Forest

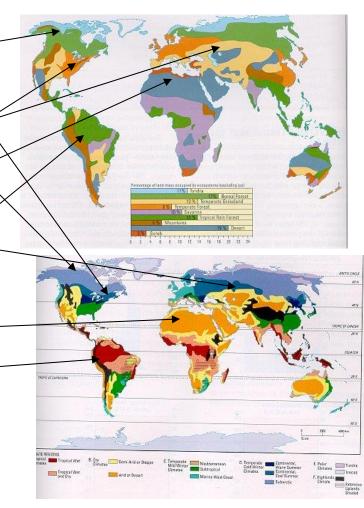
Temp. mild winter gives Temp. deciduous Forest

Semi-Arid gives Grassland

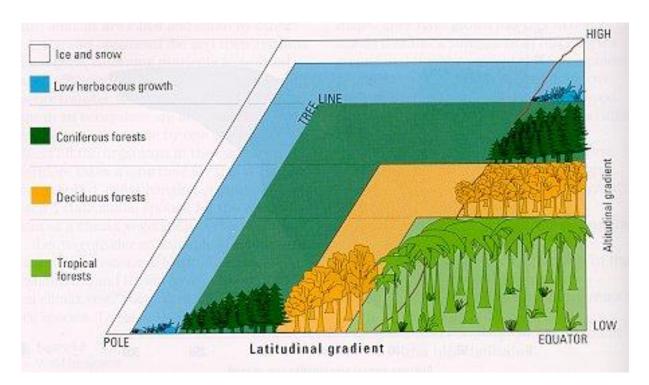
Arid gives Desert

Tropical Wet gives Tropical Rain forest

Worksheet 6.2 reviews this well.

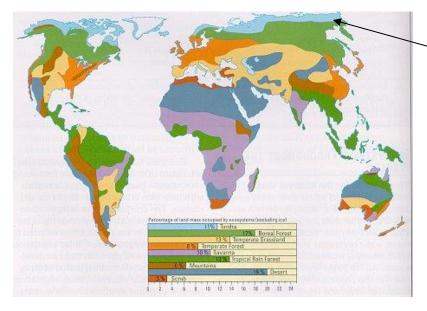


21. Altitudinal succession vs. latitudinal succession p. 104



The changes in ecosystems that occur as one moves from the equator to the poles is very similar to the changes in ecosystems seen moving from the base of an tropical mountain to the summit.

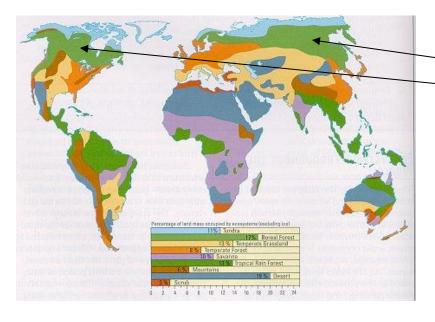
22. Ecosystem climatic conditions p.104



Tundra

- Polar sub arctic climate
- Short summers
- Avg. minthly temp. always below 10°C
- Very cold long winter
- Light precipitation

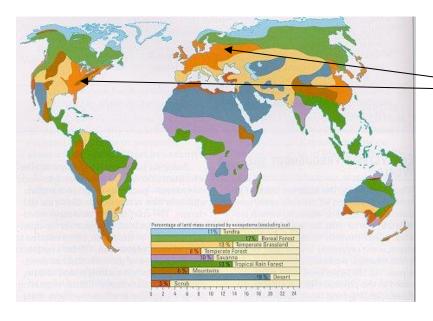




Boreal Forest

- Temperate cold winter climate
- Warm summers
- Moderate precipitation

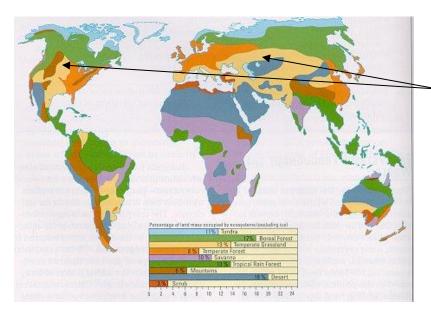




Temperate Forest

- Temperate Mild winter climate
- Warm hot summers
- Moderate heavy precipitation

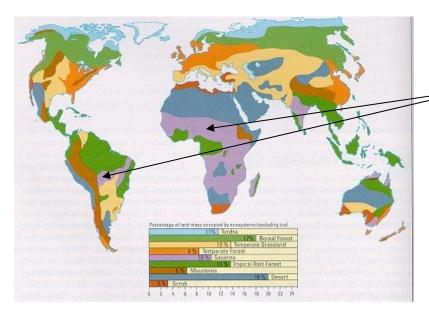




Temperate Grassland

- Semi-arid climate or temperate cold winter
- Light precipitation, most of it occurs in summer
- Warm to hot summer
- Cold winters

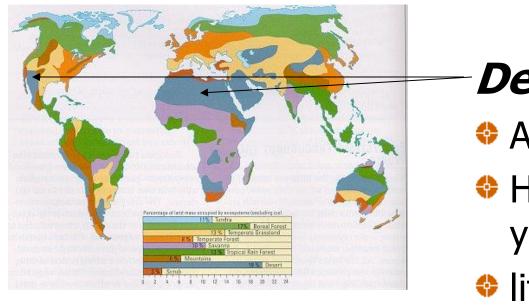




Savanna

- Tropical wet & Dry to semi-arid climate
- High temperatures most of the year
- Light to Moderate precipitation usually all in one season

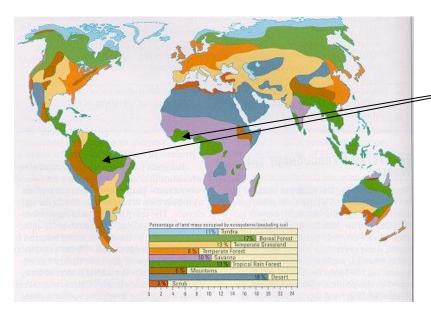




Desert

- Arid climate
- High temperatures year round
- little precipitation

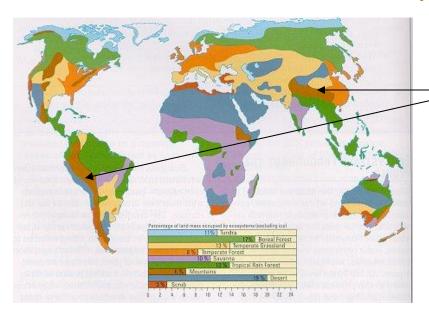




Tropical Rain Forest

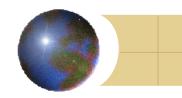
- Tropical Wet climate
- High temperatures year round
- High precipitation year round





Mountain

- Different climates at different elevations
- High elevations often like tundra



Lab /Practice questions

Questions #23 24, 25 p. 105-106 make a nice practice or even a lab!!