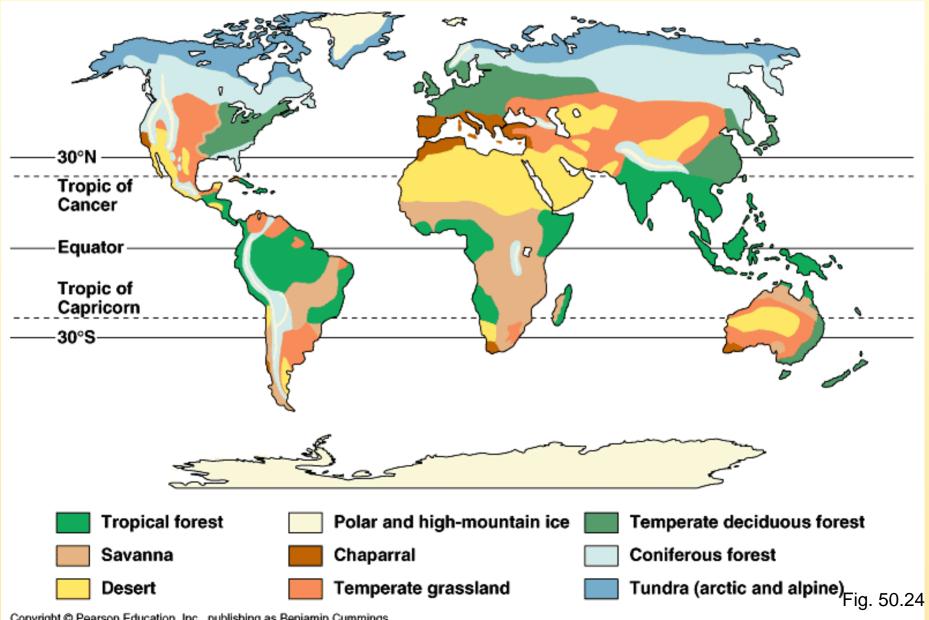
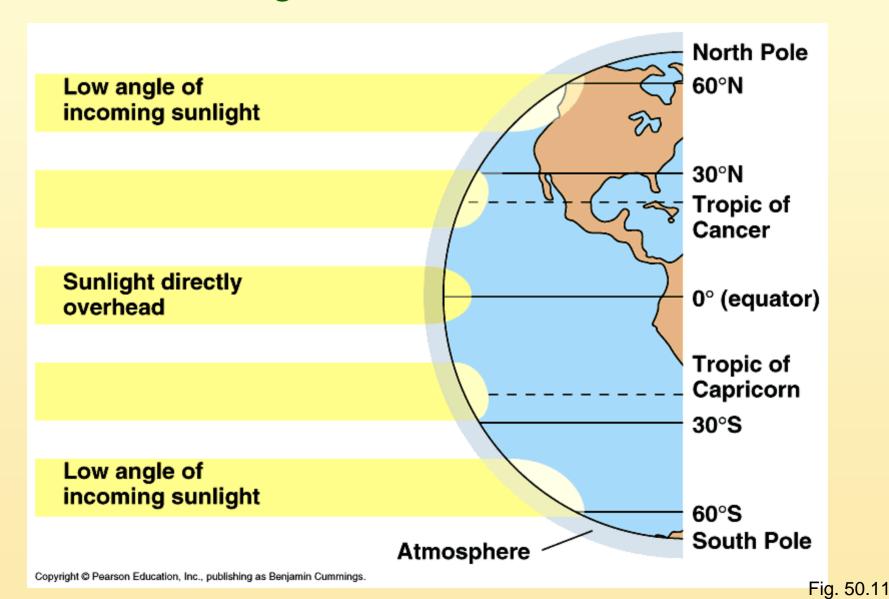
V. Climate and Biomes

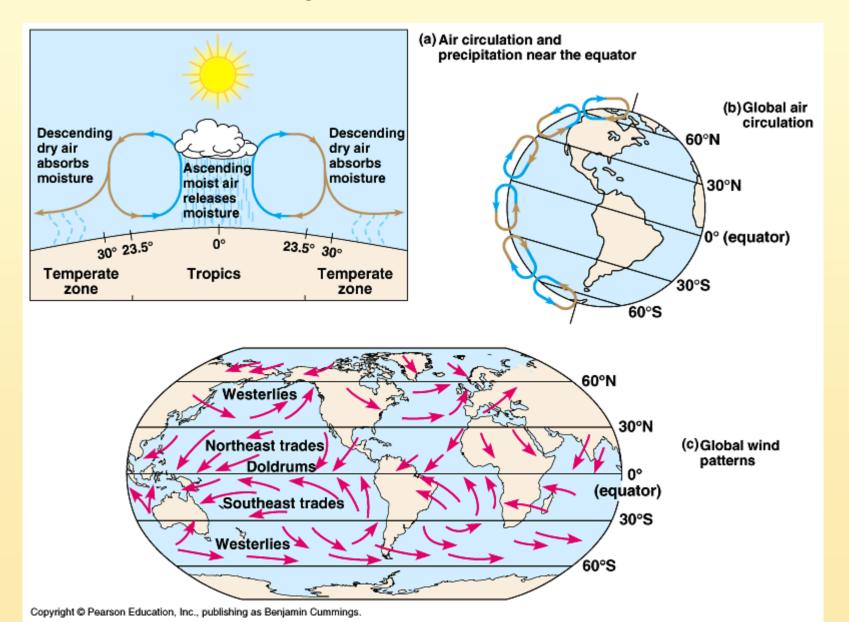
- A. Climate
- B. What determines climate?
 - 1. Latitude and sunlight
 - 2. Two facts about warm air
- C. Major wind currents
- D. Exceptions variation within a latitude
 - 1. Altitude
 - 2. Major land masses
 - 3. Ocean currents
- E. Three major types of terrestrial climate
- F. Major terrestrial Biomes
 - 1. Arctic tundra (treeless plain)
 - 2. Taiga
 - 3. Temperate coniferous forest
 - 4. Temperate deciduous forest
 - 5. Grassland
 - 6. Tropical savannah
 - 7. Desert
 - 8. Tropical rainforest



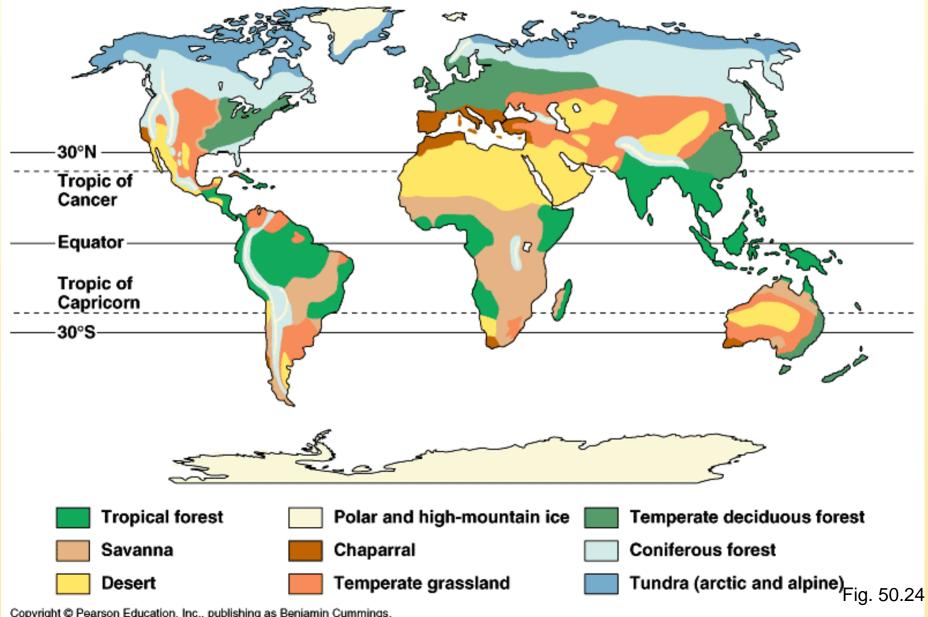
Climate: angle of earth's surface to sun



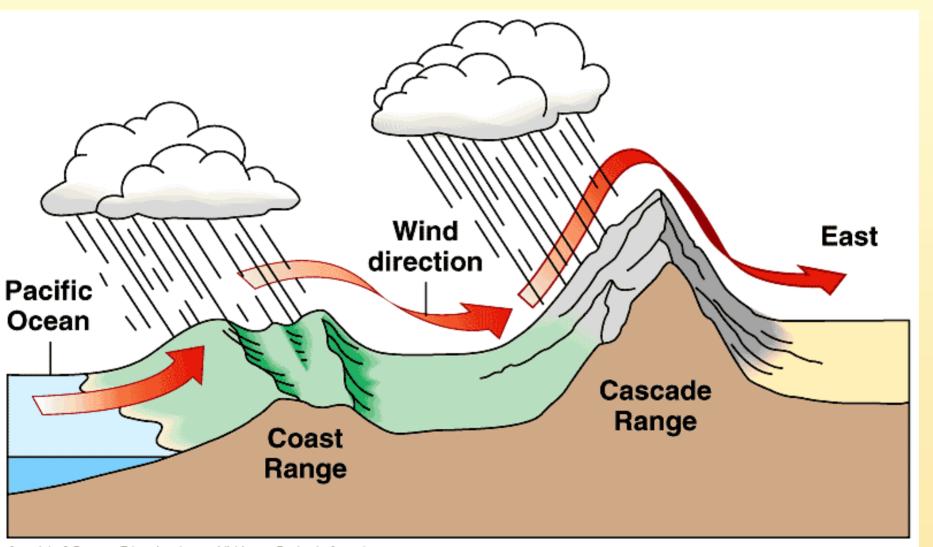
Atmospheric circulation



Deserts at 30°, wet at equator, 60°



Local features affect rainfall



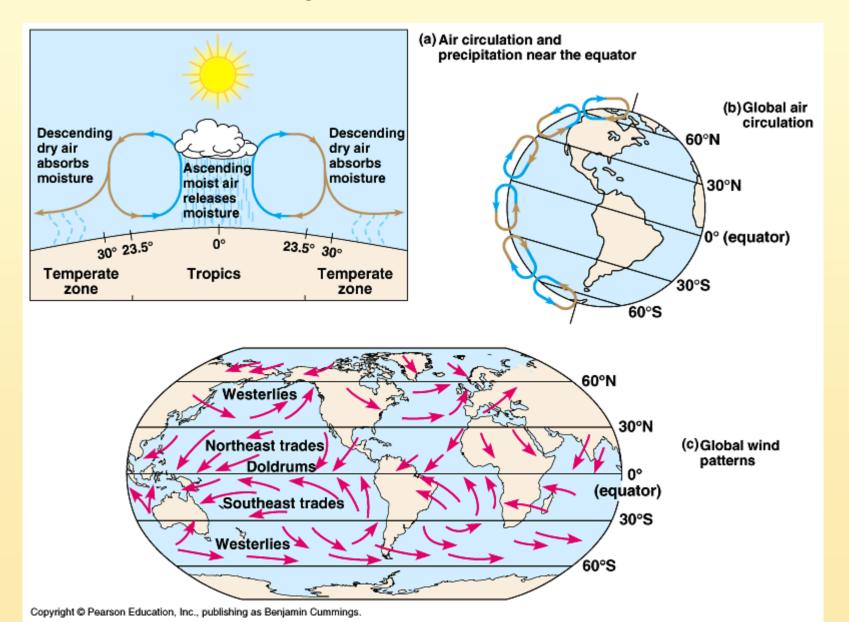


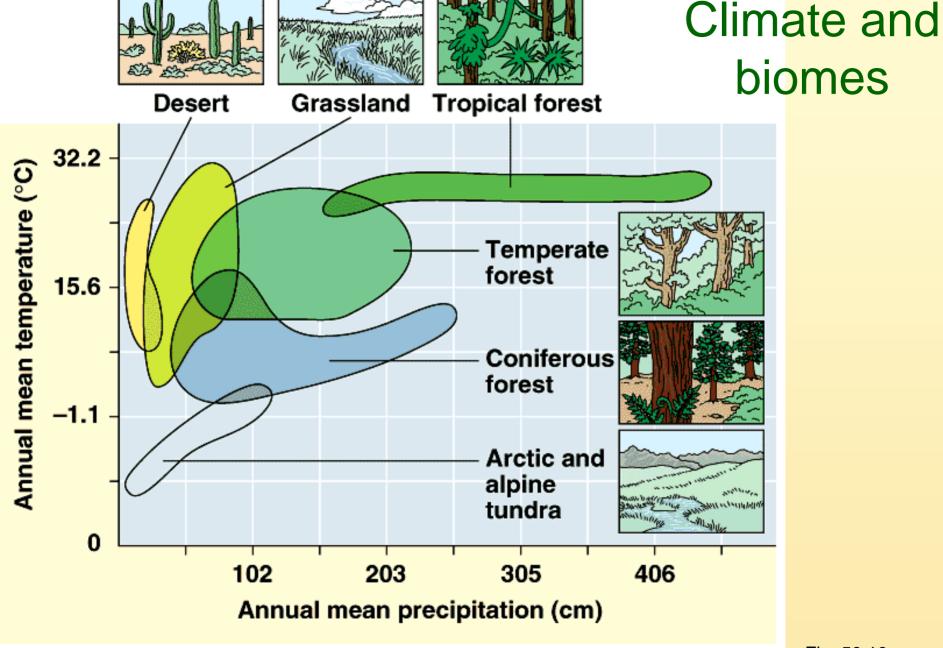
Rainy side vs. dry side

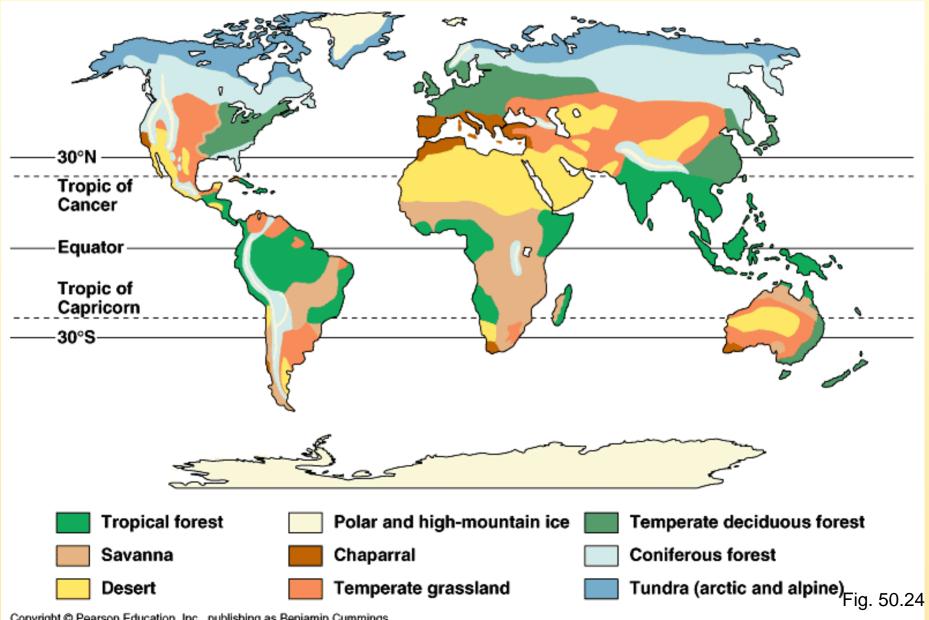


Cape Perpetua, OR. © D. Houle

Atmospheric circulation







Tundra, alpine, paramo

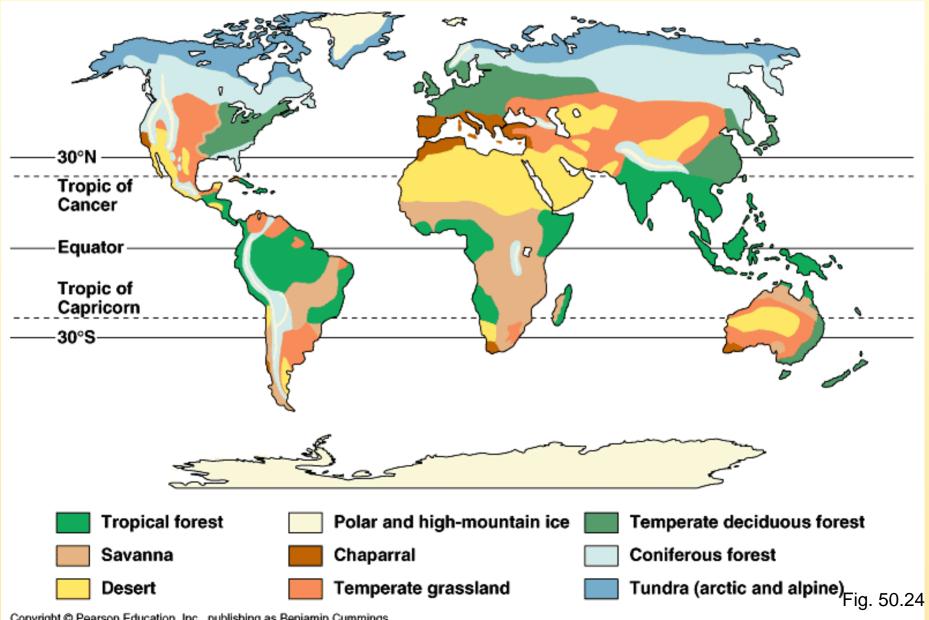


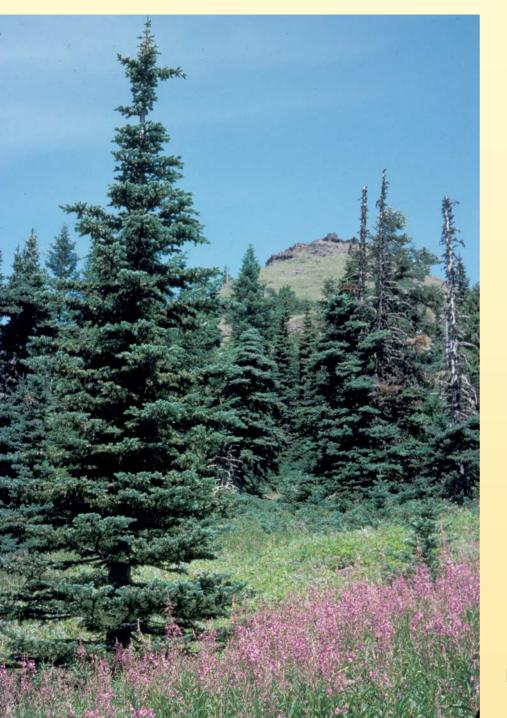
Cairngorms, Scotland. © D. Houle

Tundra, alpine, paramo



Yosemite, CA. © D. Houle





Taiga, boreal forest

Iron Mountain, OR. © D. Houle

Caribou



Temperate coniferous rain forest

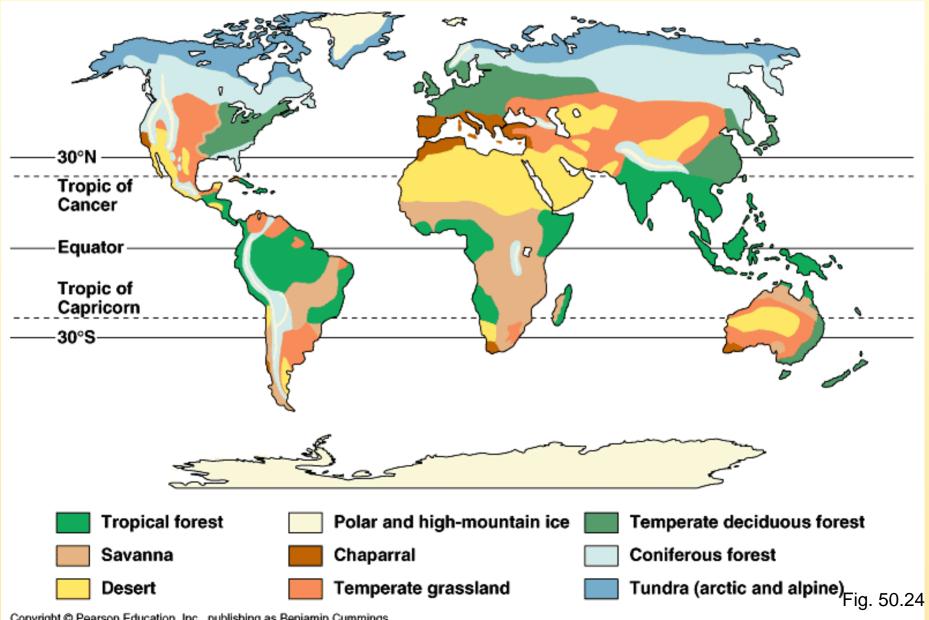


Cape Perpetua, OR. © D. Houle

Temperate deciduous forest



Great Smoky Mountains, NC. © D. Houle



Grasslands



Grasslands



Grasslands



Masai Mara, Kenya. © D. Houle

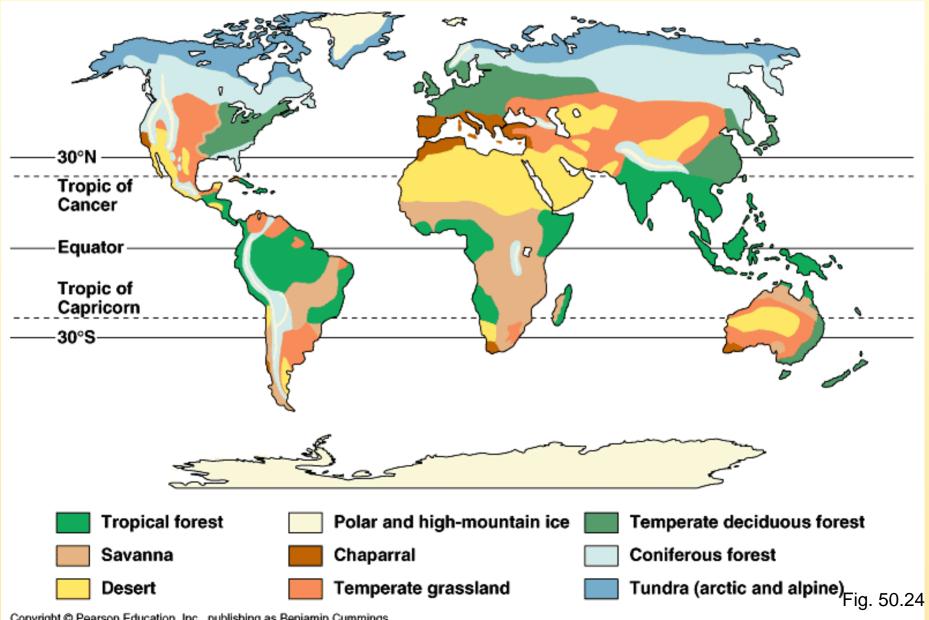
Savannah – grassland with scattered trees



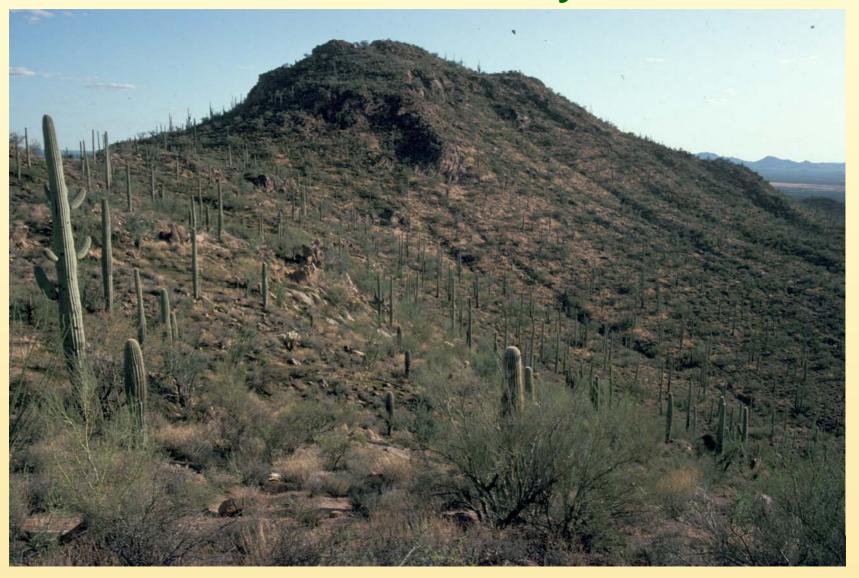
Buffalo Springs, Kenya. © D. Houle

Savannah is maintained by animals





Desert - dry

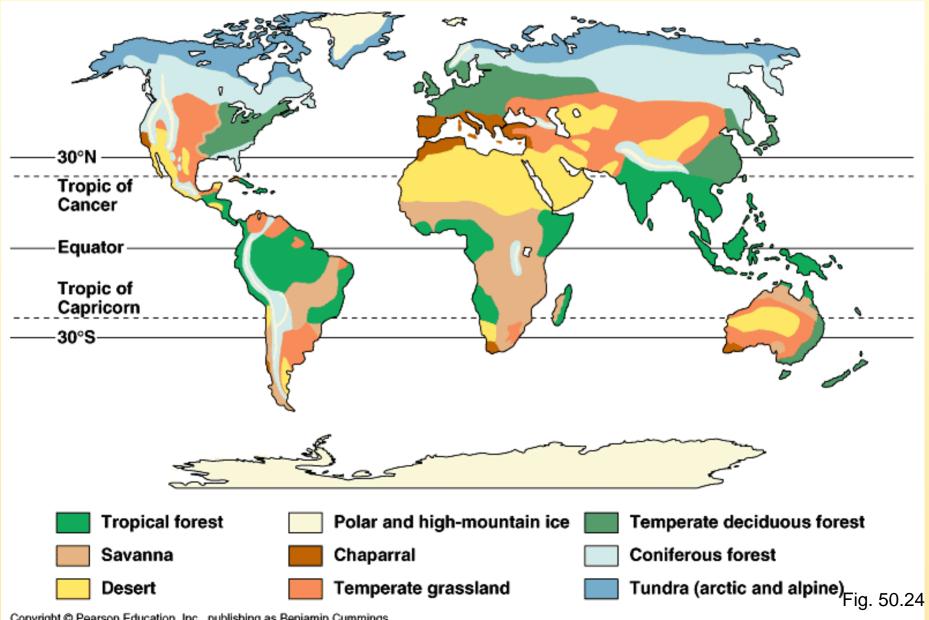


Saguaro NM, AZ. © D. Houle



Desert life

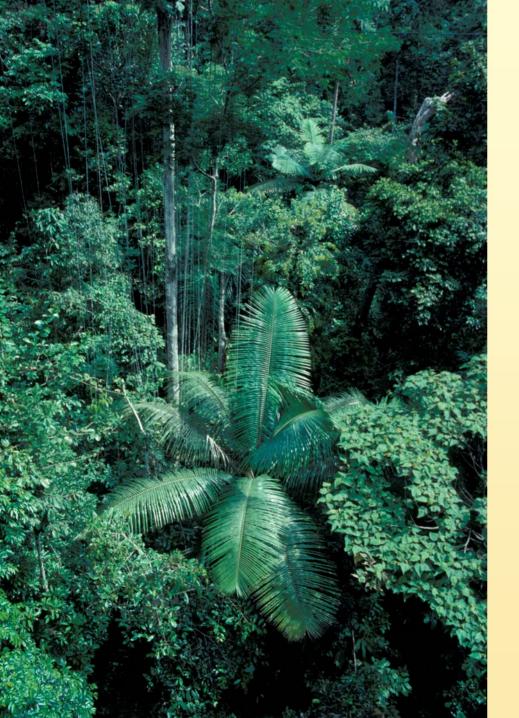




Tropical rain forest



ACEER, Amazon basin, Peru. © D. Houle



Tropical rain forests: tall, layered, vines



Tropical rain forests: epiphytes, high diversity



Amazon basin, Peru. © D. Houle

Monteverde, Costa Rica. © D. Houle