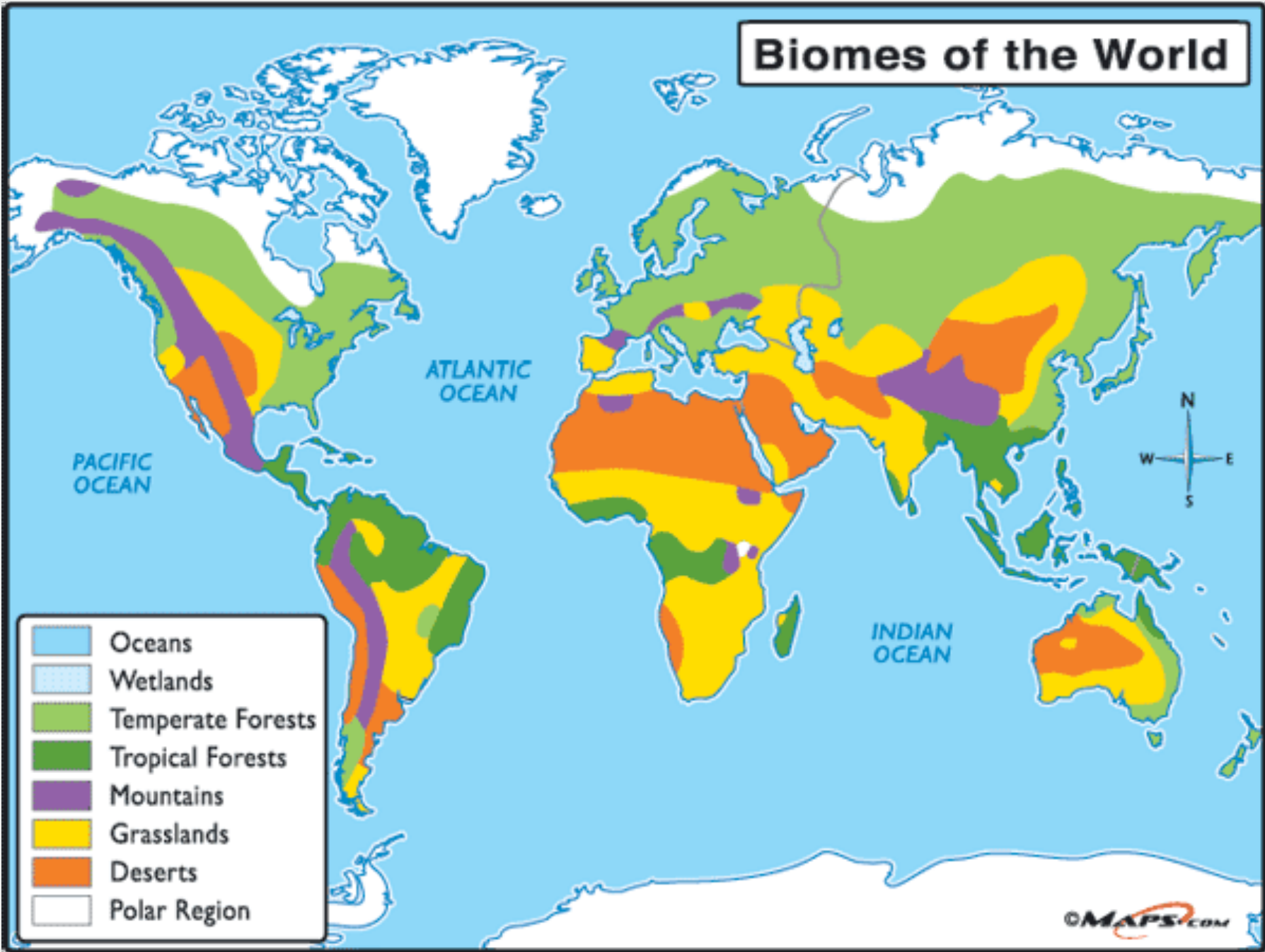


Biomes of the World





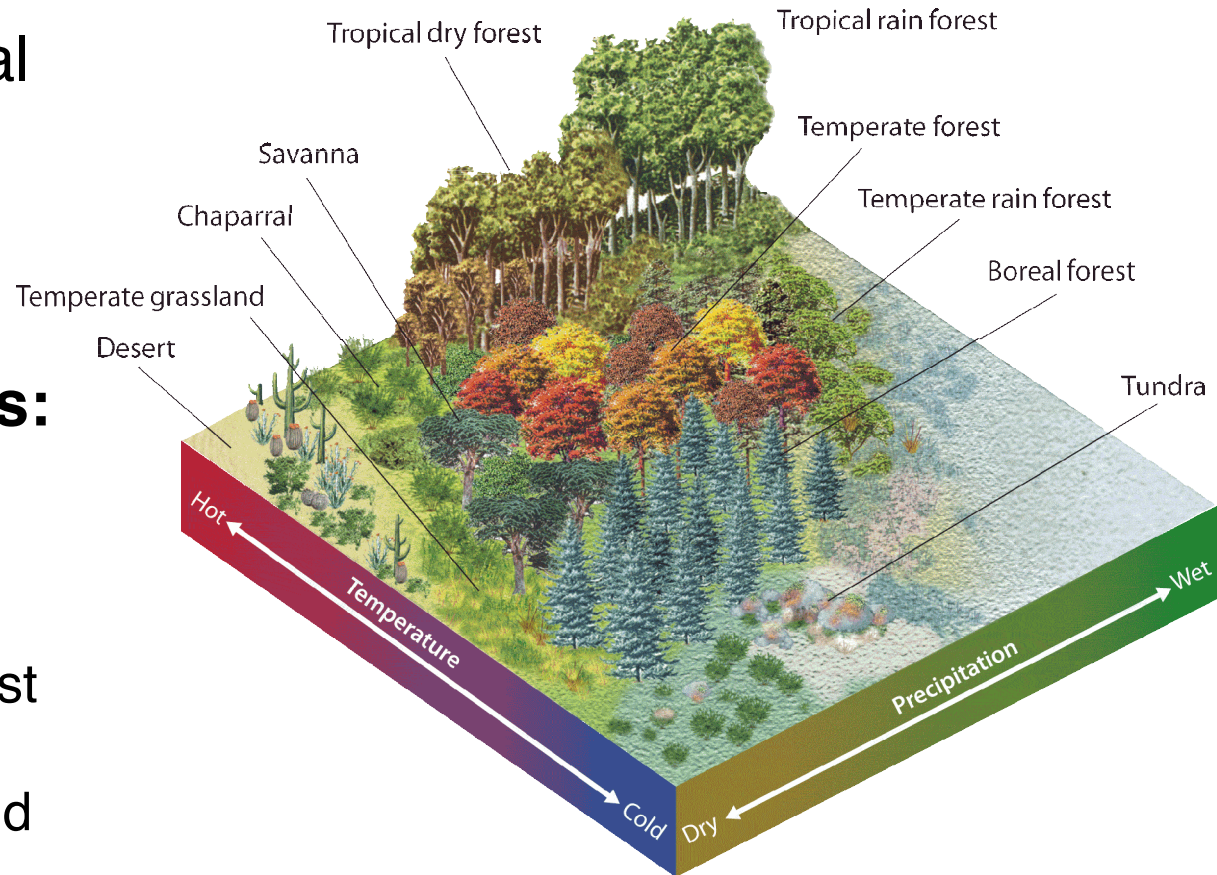
Fossil evidence suggests that the frozen continent of Antarctica was once covered in temperate forest.

Earth's Major Biomes

- Groups of terrestrial ecosystems that share biotic and abiotic conditions

- **10 primary biomes:**

- tropical rain forest
- dry forest savanna
- desert
- temperate rain forest
- temperate forest
- temperate grassland
- chaparral
- boreal forest
- tundra



Did You Know? *Taiga is another name for boreal forest.*

Climate and Climatographs

- **Climate:** Average conditions, including temperature and precipitation, over long periods of time in a given area
- **Weather:** Day-to-day conditions in Earth's atmosphere
- **Climatographs:** Diagrams that summarize an area's average monthly temperature and precipitation
- Each biome has a set of characteristic organisms adapted to its particular climate conditions.



Biomes and Net Primary Production

- **Gross primary production:** The rate at which primary producers undergo photosynthesis
- **Net primary production:** The amount of organic matter (biomass) that remains after primary producers use some to carry out cellular respiration
- Ecosystems vary in their **net primary productivity**, the rate at which primary producers convert energy to biomass.
- Warm, wet biomes generally have higher net primary productivity than cold, dry biomes.



Chart of Net Primary Productivity for biomes

