

## **Concept 34.2**

### **Climate determines global patterns in the biosphere.**

#### **Uneven Heating of Earth's Surface:**

Earth's surface can be divided into different temperature zones based on lines of latitude.

#### **Tropics:**

Tropic of Cancer - lies between 23.5° N latitude

Tropic of Capricorn - lies between 23.5° S latitude

#### **Temperate Zones:**

#### **Polar Zones:**

Arctic - the region north of the Arctic Circle  
66.5° N

Antarctic - the region south of the Antarctic Circle  
66.5° S

#### **Wind, Precipitation, and Ocean Currents:**

The uneven heating of Earth's surface by the sun is a driving force behind global patterns of wind and precipitation.

#### **Local Climate:**

#### **Microclimate:**