

AP Biology

Chapter

40.1: Global Climate and Biomes

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Key Concepts: Earth's climate influences the distribution of terrestrial biomes.

1. Global climate patterns are largely determined by the input of solar energy and Earth's revolution around the sun.
2. The changing angle of the sun over the year, bodies of water and mountains exert seasonal, regional, and local effects on climate.
3. Climographs show that temperature and precipitation are correlated with biomes. Other factors affect biome location as well.
4. Terrestrial biomes are often named for major physical or climatic factors and for their predominant vegetation. Vertical layering is an important feature of terrestrial biomes.

Global Climate Patterns

● Vocabulary

- Abiotic: Nonliving factors like temperature, wind, precipitation, and sunlight; can influence distribution and abundance of organisms.
- Biotic: Living factors that can influence other organisms.
- Climate: Long-term, average weather conditions in an area.

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