

## Geology Chapter 21 – Climate

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**Big Ideas** Earth's lands display a remarkable diversity of climates. The major factors that affect climate include latitude, elevation, topography, the nearness of large bodies of water, the patterns of global winds, and the type and amount of vegetation.

**Space and Time** Climate classifications, such as the Köppen classification system, are used to recognize how climate responds to the different factors such as latitude and elevation. The major climate types are humid tropical, dry, middle latitude (with mild or severe winters), and polar.

**Forces and Motion** Earth's climate changes significantly over time, sometimes very rapidly. The driving mechanism for climate change is the variation in the amount and distribution of solar radiation due to changes in Earth's revolution and rotation (Milankovitch cycles).

**Matter and Energy** Climate change, however, has many other natural factors. Volcanic eruptions can change climate by adding gases and dust into the atmosphere. Changes in global ocean currents greatly affect how heat from the sun is distributed. It is even possible that changes in solar activity, perhaps associated with sunspots, affects climate as well.

**Earth as a System** Human activity affects climate both locally, with the development of cities, and globally. We are in a period of global warming due to an increase in carbon dioxide emissions and the reduction in forest land. This global warming involves an increase in global temperatures as well as a change in patterns of precipitation.

### Section 1 – Factors that Affect Climate

1. Powered by the \_\_\_\_\_, the \_\_\_\_\_ systems is a complex exchange of energy and \_\_\_\_\_ among Earth's different \_\_\_\_\_.
2. Name six things that affect the two most important elements of climate.
3. What are the two most important elements of climate?
4. What is latitude?
5. As latitude \_\_\_\_\_, the intensity of solar energy \_\_\_\_\_.
6. How does the intensity of solar radiation vary at different parts of Earth?
7. Name the two tropics.
8. Describe the tropical zones.
9. Describe the temperate zones.
10. Describe the polar zones.

# Chapter 21 Climate Wordwise

**Michael Hoelscher**



## **Chapter 21 Climate Wordwise:**

**Focus on Earth Science**, 2001      **The Complete Idiot's Guide to Global Warming, 2nd Edition** Michael

Tennesen, 2008-02-05 Revisiting the most important topic of our time The rapid warming of the Earth's climate has been a concern for decades Though many of us understand that temperatures will on average rise the science and the resulting social economic and political implications of such a change are far reaching and complex This new edition has been completely overhauled synthesizing the latest information into an easy to read reference that provides a fair assessment of climate change its costs and even its short term benefits Covers the newest science and issues surrounding global warming Written by a seasoned science nature journalist

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