

Climate vs. Weather - middle school

Long term weather patterns


Day to Day Temp
Precipitation, Pressure
Humidity, wind, Cloud Cover
etc...

The climate in a given region is determined by six different factors:

1. LATITUDE 

2. ALTITUDE

3. PROXIMITY TO WATER

4. TOPOGRAPHY 

5. Ocean Currents

6. Prevailing Winds

1. Latitude: distance from the equator.

a. The Earth is tilted on its axis and as a result the Sun's rays strike the Earth at different angles.



b. The angle of insolation is most direct in the tropics (between 23.5°N & 23.5°S) therefore there is more energy delivered per unit of area.

- Tropical locations are generally warm all year around (small T Range)

- Temperate zones have more more conditions that change small angle with seasons

- Polar regions receive much less radiation due to the low of insolation and as a result they're cold all year around

