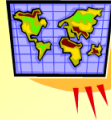


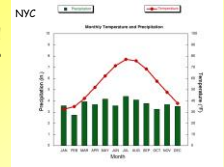
- I can name the two properties that determine an area's climate
- I can explain Annual Temperature Range
- I can contrast Arid & Humid
- I can describe how latitude affects temperature & moisture

CLIMATE

• **Climate:** the overall view of a region's weather conditions over a long period of time

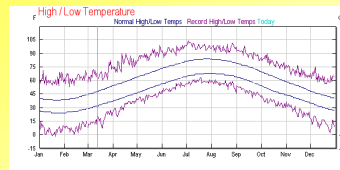


A climograph shows the average monthly temperature and precipitation for a location.



Climate	Levittown, NY	United States
Rainfall (in.)	50.6	36.5
Snowfall (in.)	24.7	25
Precipitation Days	119	100
Sunny Days	173	205
Avg. July High	84	86.5
Avg. Jan. Low	21.9	20.5
Comfort Index (higher=better)	48	44
UV Index	3.6	4.3
Elevation ft.	77	1,443

JFK



• The two main factors that determine climate are

- Temperature
- Precipitation



• Annual Temp Range - difference between average temp of the hottest month & the coldest month

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Moisture

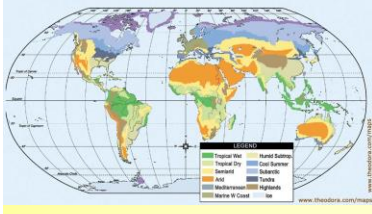
- Arid or Dry when...
 - precipitation is less than the need
- Humid or Wet when...
 - Precipitation is more than the need



** Need = potential evapotranspiration **

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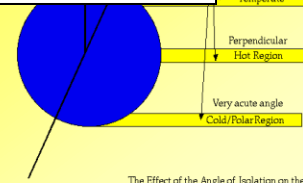
World Climate Map



The Factors that Influence Climate are:

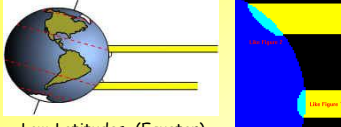
- Latitude
- Planetary wind and pressure belts
- Oceans and other large bodies of water
- Ocean currents
- Mountains
- Elevation
- Amount of Cloud Cover
- Vegetation

Temp varies at different latitudes because of the angle of intensity of sunlight



The Effect of the Angle of Incidence on the Temperature on Earth

- High Latitudes (Poles)
 - maximum angle of sun is small
 - average temp. is low

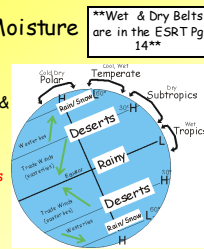


- Low Latitudes (Equator)
 - maximum angle of sun is always high
 - average temp. is always high

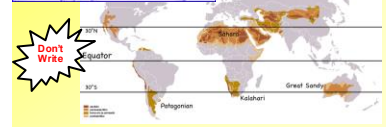
Moisture

- Moisture varies because of planetary winds & pressure belts

- Low Pressure - Humid Climates
- High Pressure - Dry Climates



- Most of the world's rain forests are located at or near the Equator.
- The world's deserts are all located at or near 30° north or south.



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