

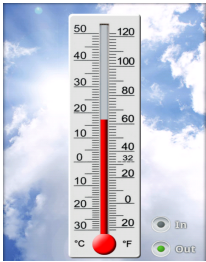
Weather state of the atmosphere at any given time and place

Climate- weather over an extended period of time, “average” weather



****Properties that determine the weather and climate**

Temperature



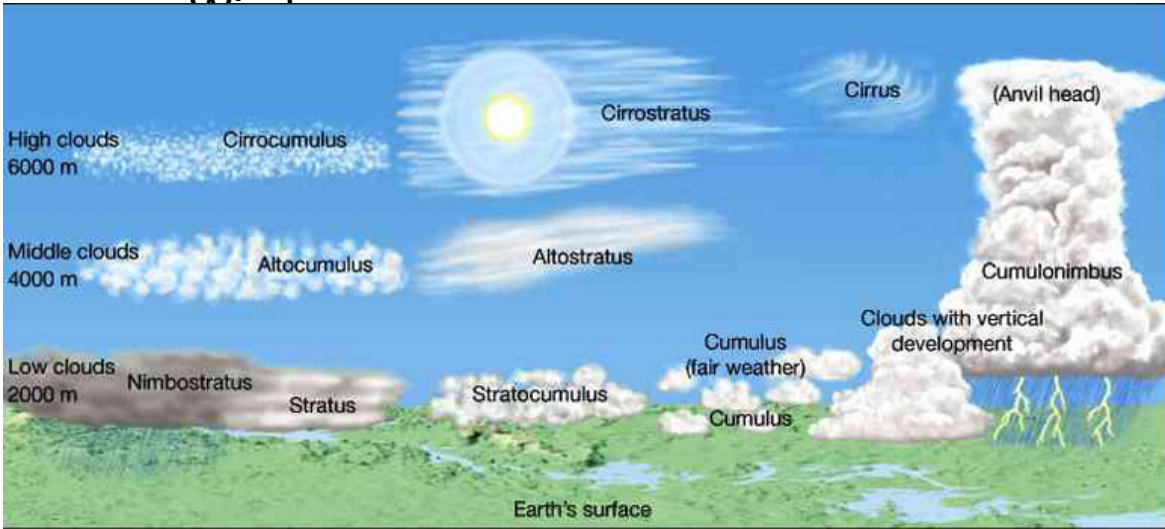
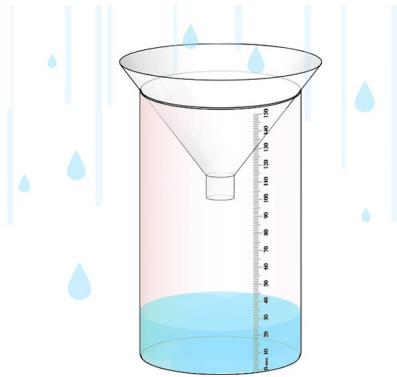
Humidity



Air Pressure



Precipitation



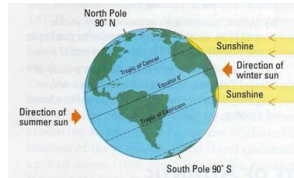
Temperature Controls ?



Factors influencing on Weather and Climate

At your table, write down as many things as you can think of that affect the climate in any particular area of Earth (you will turn one in per table of 4)

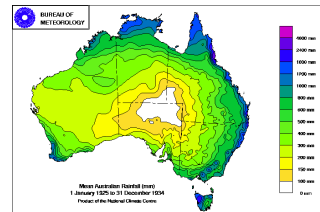
latitude



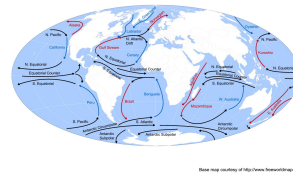
elevation



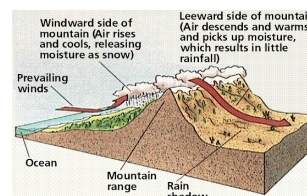
nearby water



ocean currents



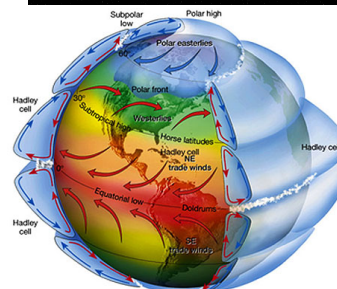
topography



vegetation



prevailing winds

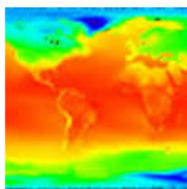


Climate Control notes

https://www.classzone.com/books/earth_science/terc/content/investigations/es2101/es2101page02.cfm

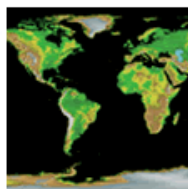


The climate of any particular place is influenced by a host of interacting factors. These include **latitude**, **elevation**, **nearby water**, **ocean currents**, **topography**, **vegetation**, and **prevailing winds**. The global climate system and any changes that occur within it also influence local climate. Consider how each factor illustrated by the thumbnail images might control climate at your location.



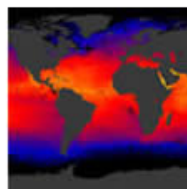
NASA

LATITUDE
Surface temperatures vary with latitude.



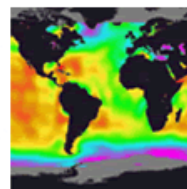
NOAA

ELEVATION
Climate zones coincide roughly with elevation ranges.



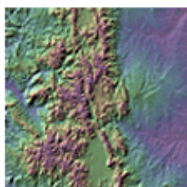
NASA

NEARBY WATER
Sea surface temperatures affect land temperatures.



NASA

OCEAN CURRENTS
Water temperatures indicate transfer of heat energy by currents.



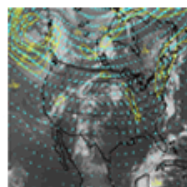
Ray Sterner, Johns Hopkins University Applied Physics Laboratory

TOPOGRAPHY
Local variations in elevation can cause local variations in climate.



Martos Hoffman

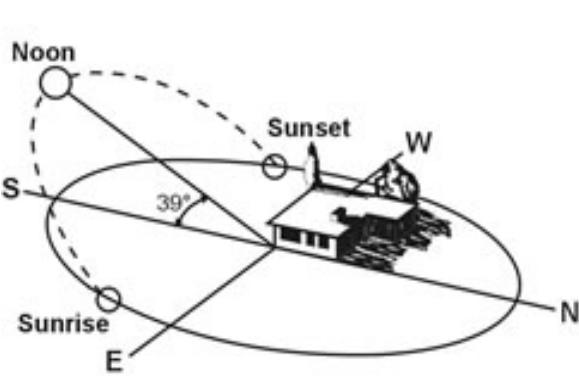
VEGETATION
Type of ground cover and seasonal changes affect climate.



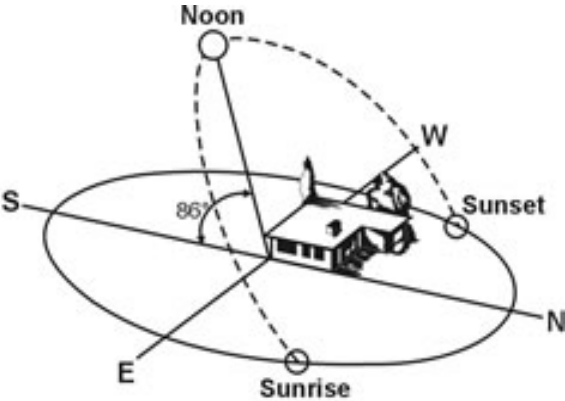
San Francisco State University—Meteorology

PREVAILING WINDS
Winds deliver air masses with specific properties.

Climate Control notes



Winter Altitude



Summer Altitude

