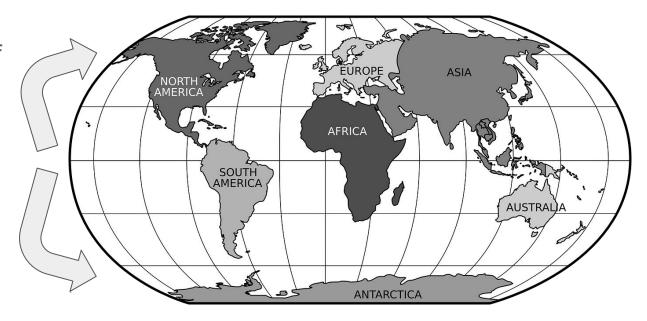
Factors That Can Influence Climate

Extension Climate Learning Lab

Latitude

How far North or South of the equator a place is located.

Generally, it is warmest and wettest near the equator and gets cooler to the North and South.



Proximity to water

How close a location is to an ocean, lake or river.

Generally being close to water leads to more precipitation.



Topography

How flat, hilly or mountainous a place is.





Elevation

How high above sea level a place is located.

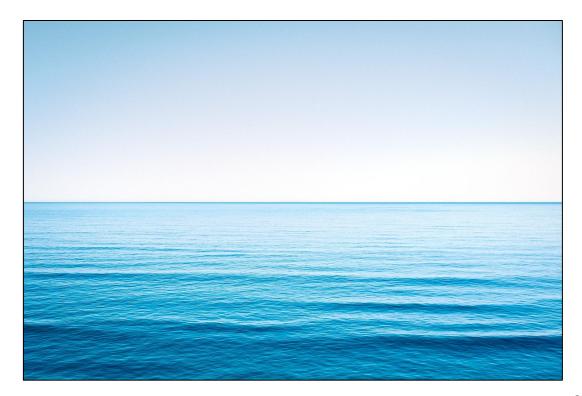
Denver, CO is called the mile-high city because it is about 1 mile above sea level.

Generally, the higher elevation a location is the cooler its climate will be.

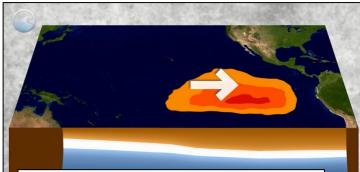


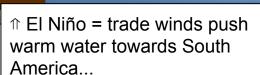
Ocean currents and temperatures

Movement of warm and cold ocean water, like those driven by El Niño and La Nina conditions, influence temperatures on land.

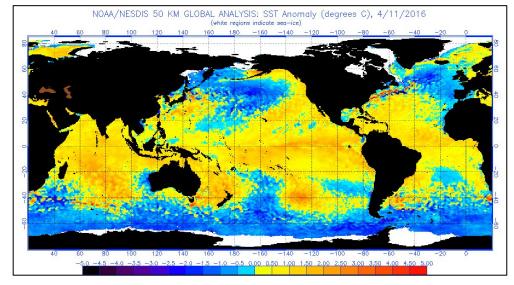


El Niño





... which causes the jet stream to dip South leading to warmer, dryer winters in the US West \Rightarrow



https://www.usgs.gov/media/images/el-nino-map



↑ Ocean
temperature data
from El Niño ocean
currents

