

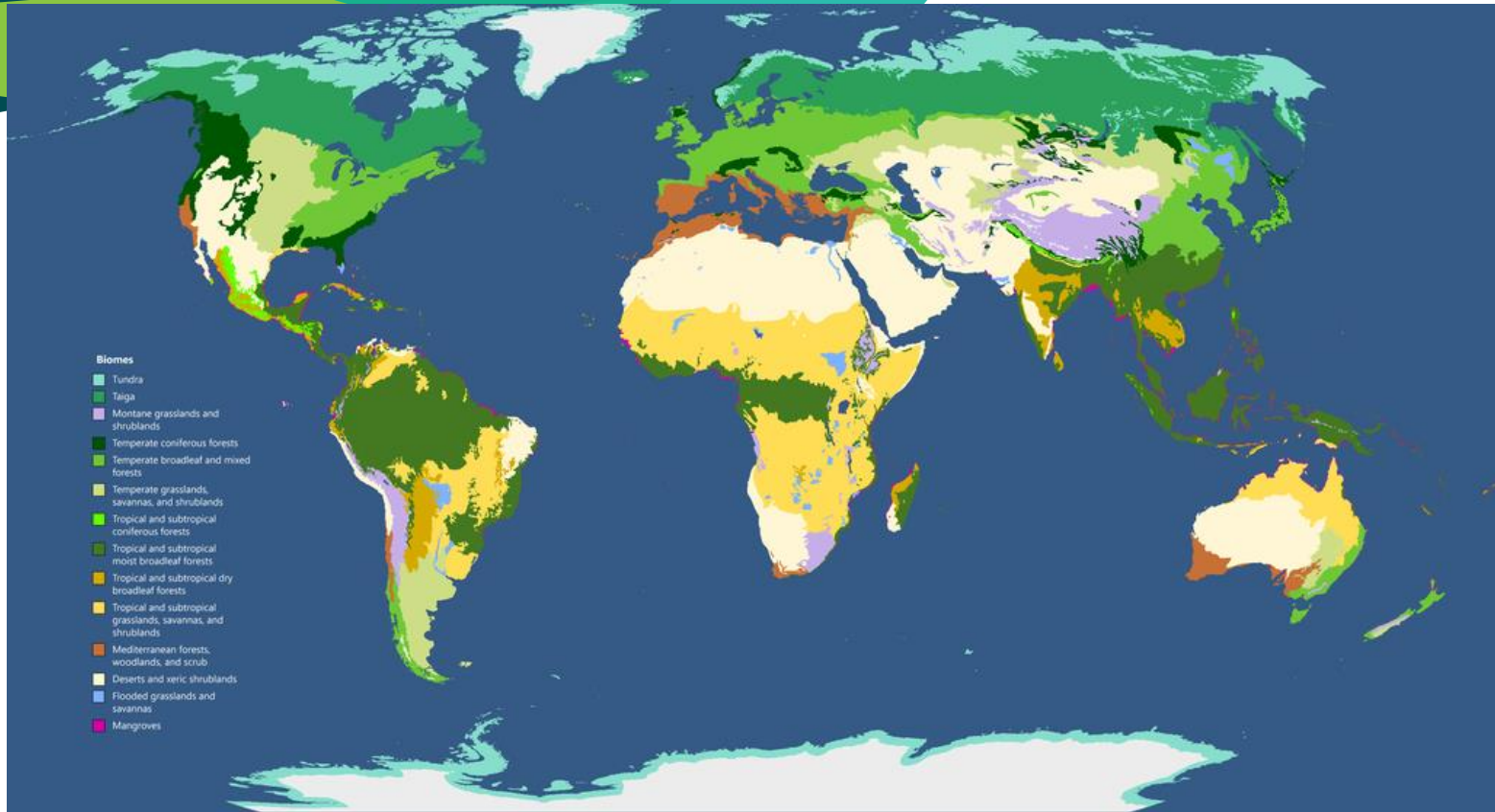


*So that is weather, but
what about climate?*

EPISODE 28.1

WEATHER VS CLIMATE

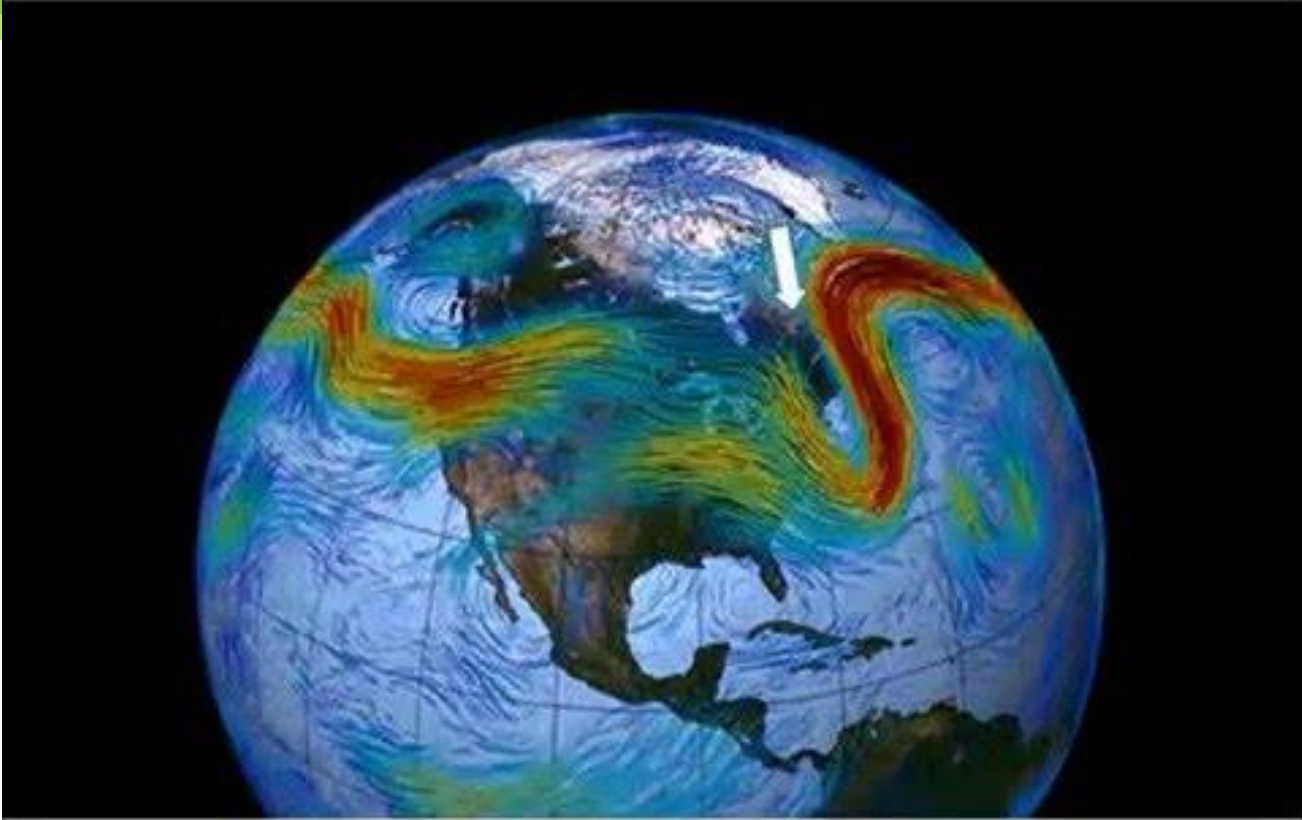


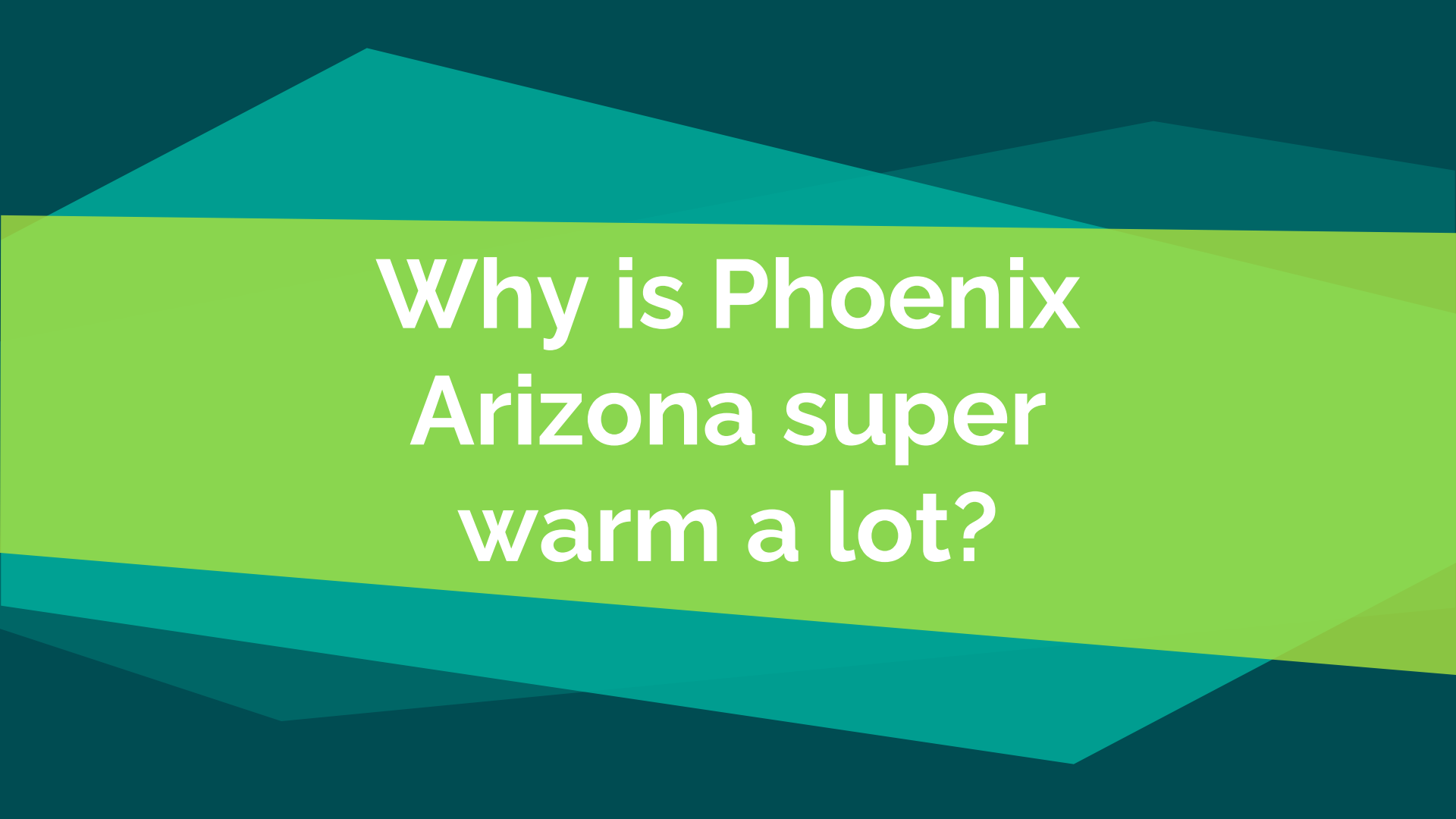


So are our biomes based on weather or climate?

Factors that Affect Climate

1. Latitude
2. Altitude / Elevation
3. Distance from large bodies of water
4. Ocean currents
5. Winds (both prevailing and seasonal)
6. Mountain ranges



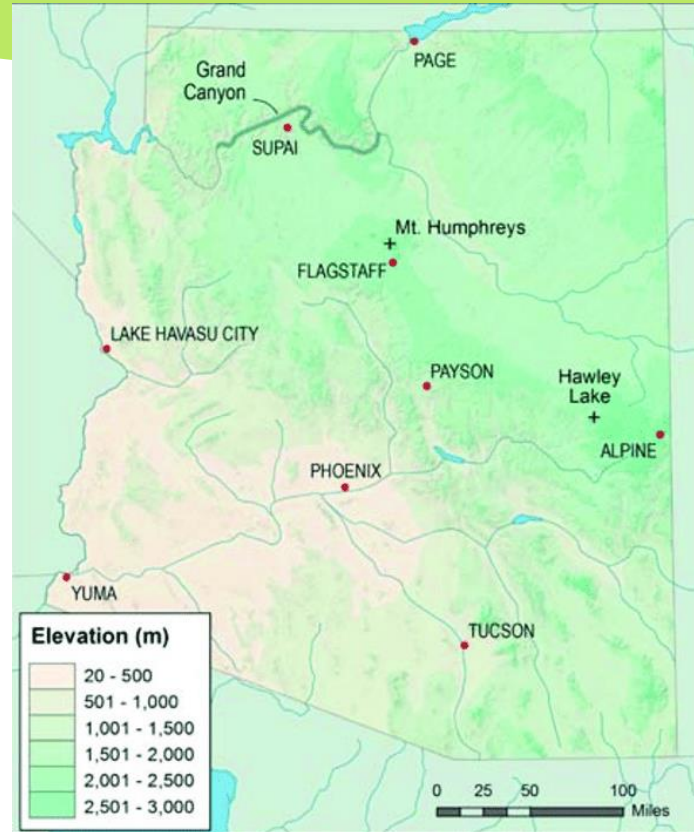


**Why is Phoenix
Arizona super
warm a lot?**

1. Latitude



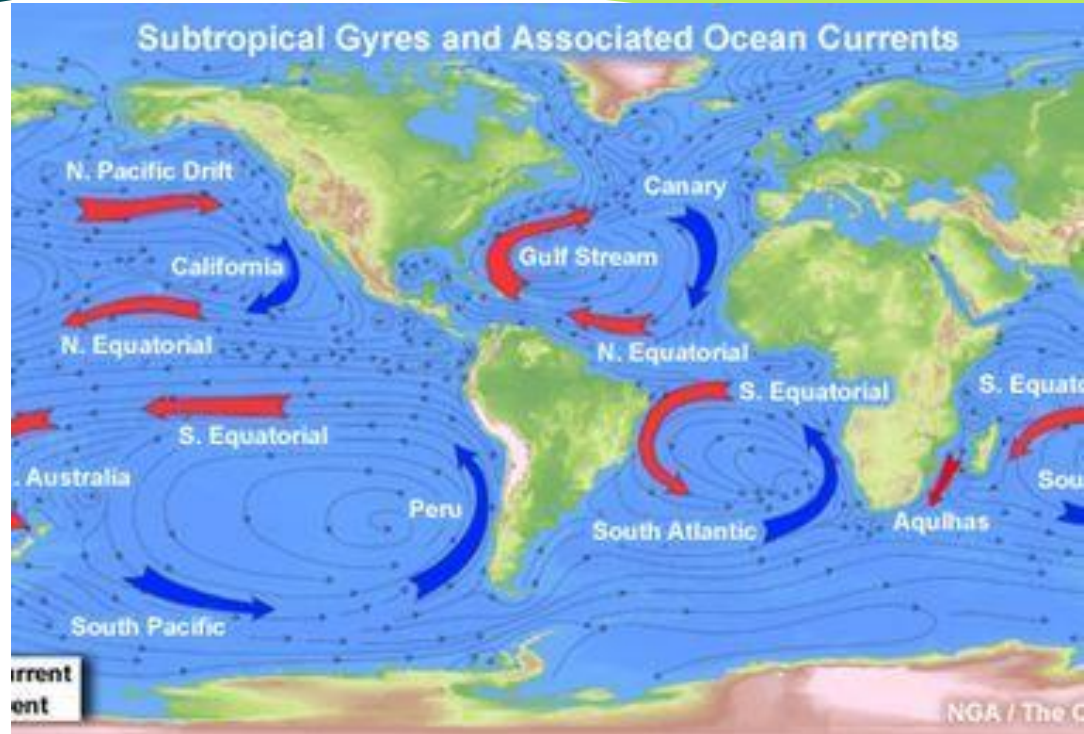
2. Elevation



3. Distance from large bodies of water

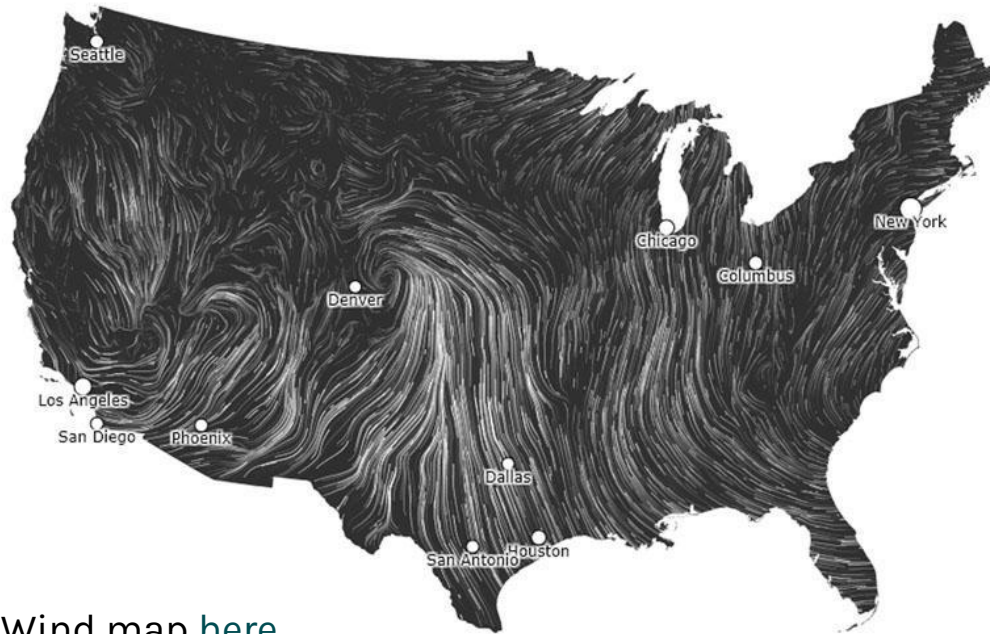


4. Ocean currents

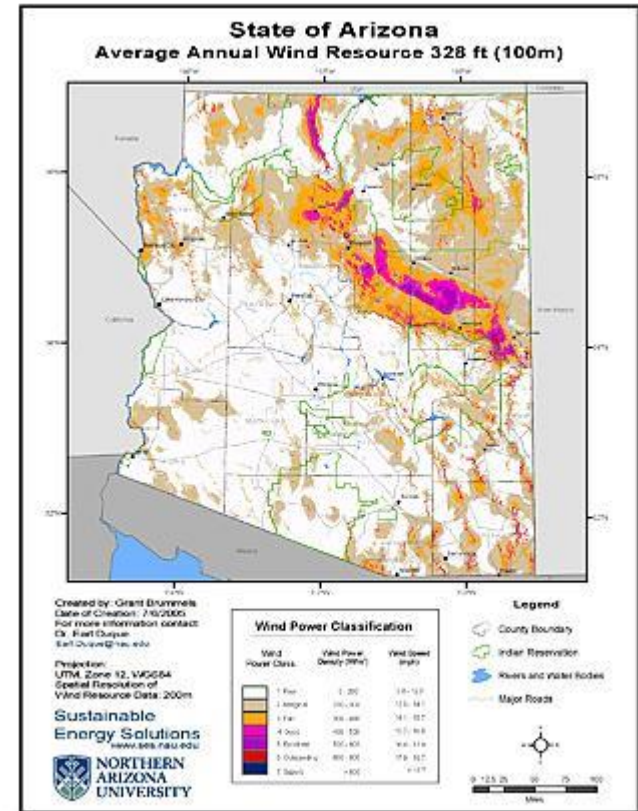


Wind and currents map [here](#)

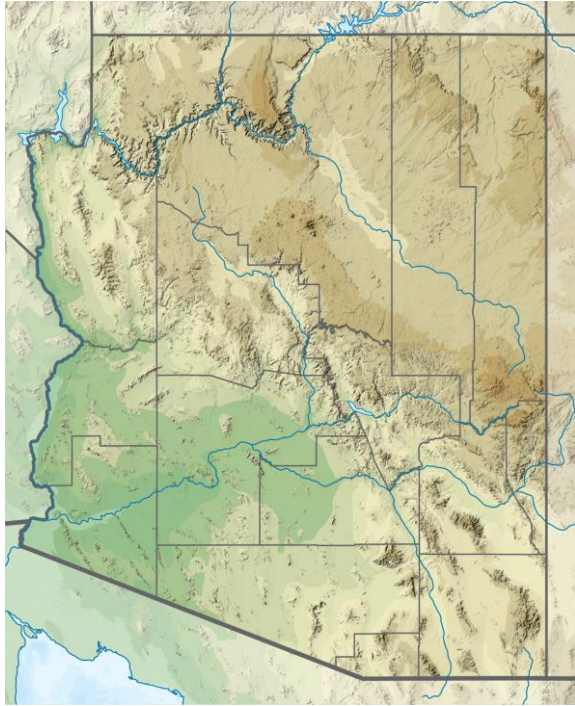
5. Winds

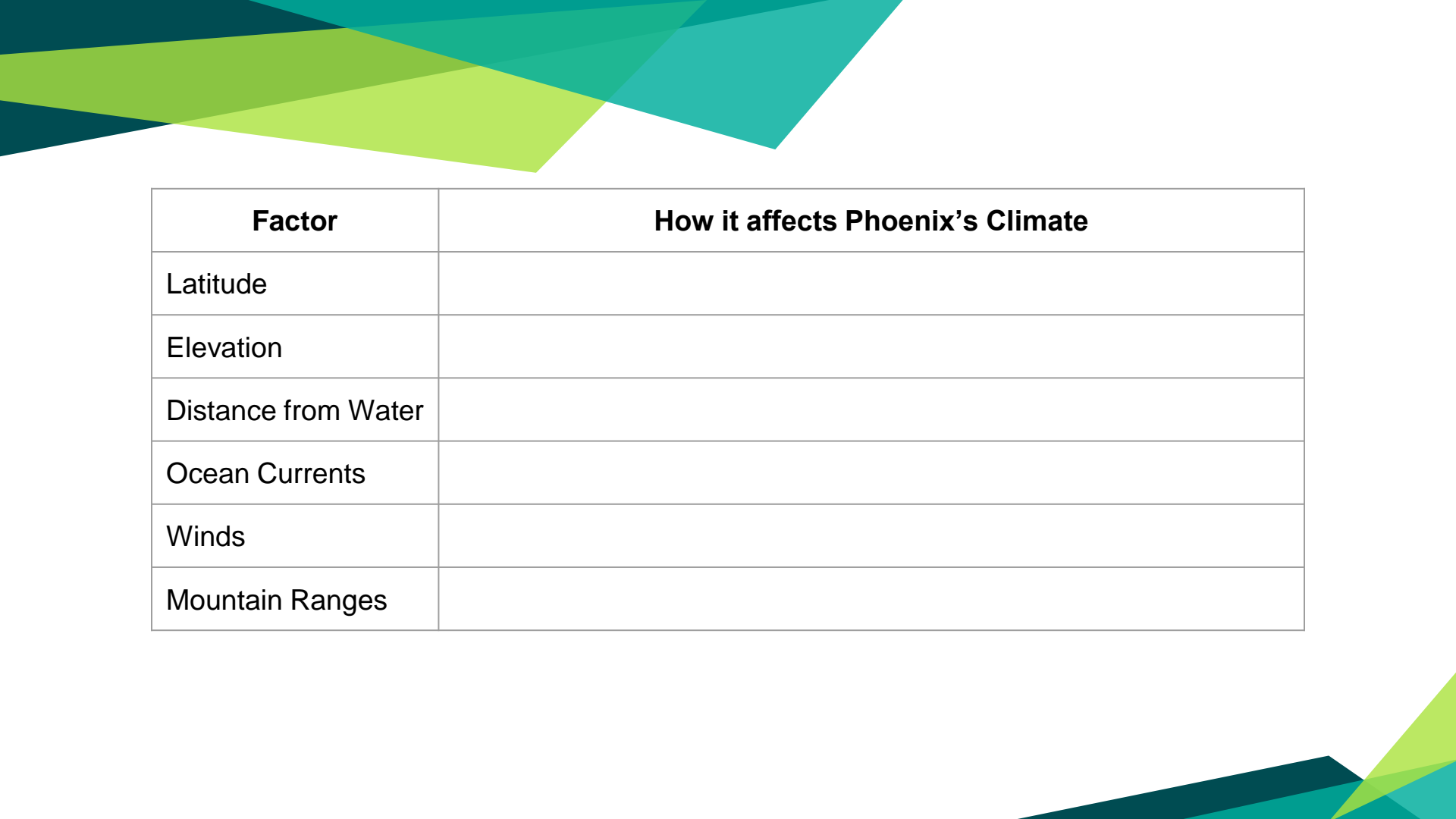


Wind map [here](#)



6. Mountain ranges





Factor	How it affects Phoenix's Climate
Latitude	
Elevation	
Distance from Water	
Ocean Currents	
Winds	
Mountain Ranges	



13

HOW DO WE CLASSIFY CLIMATES?



What are the six
climate factors?

Factors that Affect Climate

1. Latitude
2. Altitude / Elevation
3. Distance from large bodies of water
4. Ocean currents
5. Winds (both prevailing and seasonal)
6. Mountain ranges

Deep Dive

- Latitude: https://www.abcya.com/games/latitude_and_longitude_practice
- Altitude: <https://apps.nationalmap.gov/viewer/>
- Distance from Large Bodies of Water: <https://enviroatlas.epa.gov/enviroatlas/interactivemap/>
- Ocean Currents: <https://spaceplace.nasa.gov/ocean-currents/en/>
- Prevailing Winds: <https://windexchange.energy.gov/states>
- Mountain Ranges: https://world-geography-games.com/en/world_mountain-ranges.html
- Monsoons: <https://gpm.nasa.gov/education/videos/monsoons-wet-dry-repeat>

Done early? Find more activities about climate factors here: <https://wideopenschool.org/>

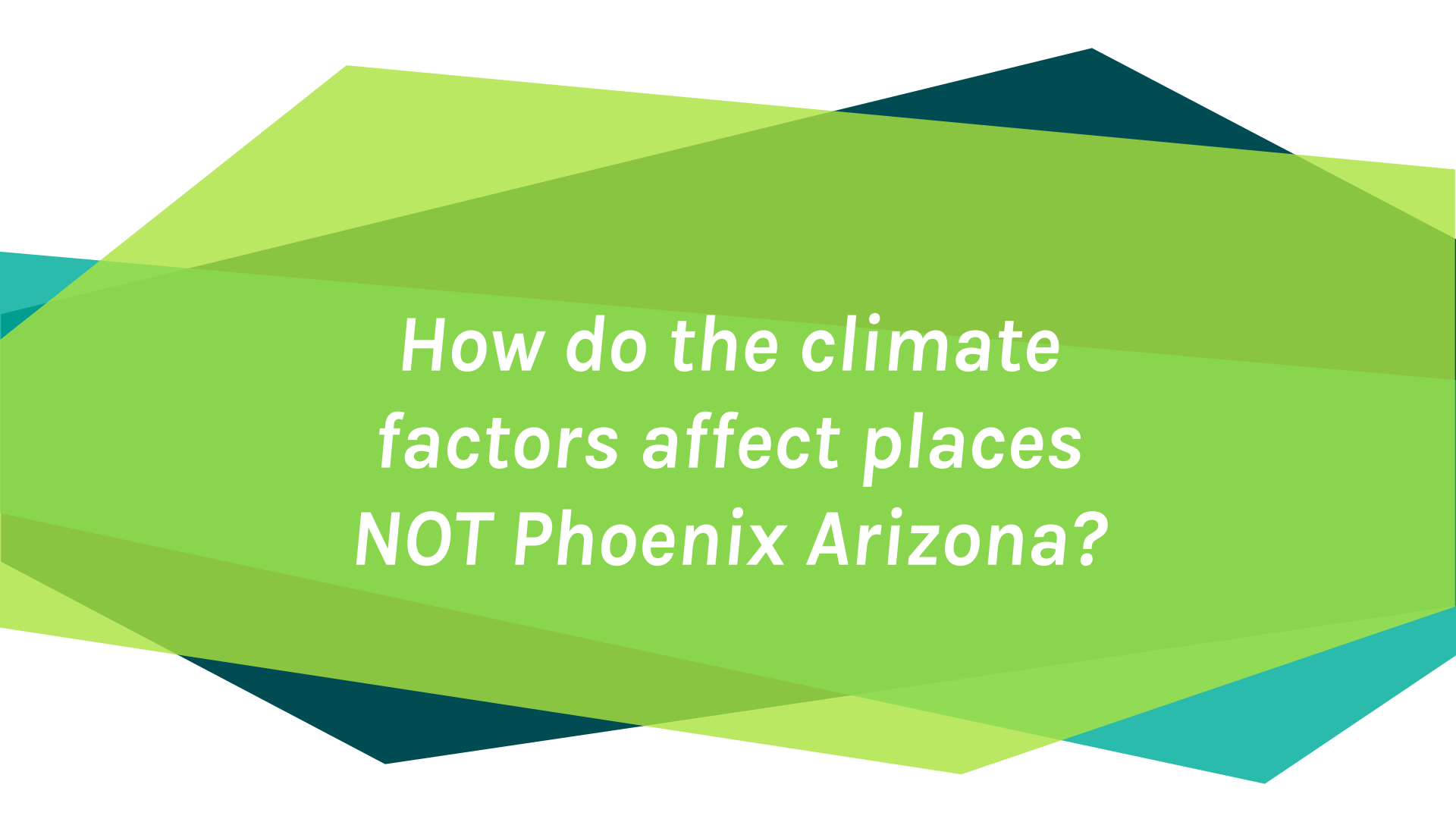


Thoughts?

**What was something
you learned or found
interesting?**

Why type of climate would you guess this is located in? Why?





*How do the climate
factors affect places
NOT Phoenix Arizona?*

Climate Factors Chart

- ◆ Pick a location on Earth that isn't metro Phoenix
- ◆ Research into the factors that affect its climate
- ◆ Complete the chart based on your research
- ◆ Cite your sources on the right column

Factors For Your Chart

Latitude

How close or far away is your location from the equator?

Elevation

How high up or not so high up is your location from sea level?

Distance From Water

Is your location close or far away from a large body of water like the ocean or a lake?

Ocean Currents

If your location is by a coast, does it get warm ocean currents or cold ocean currents going past it?

Winds

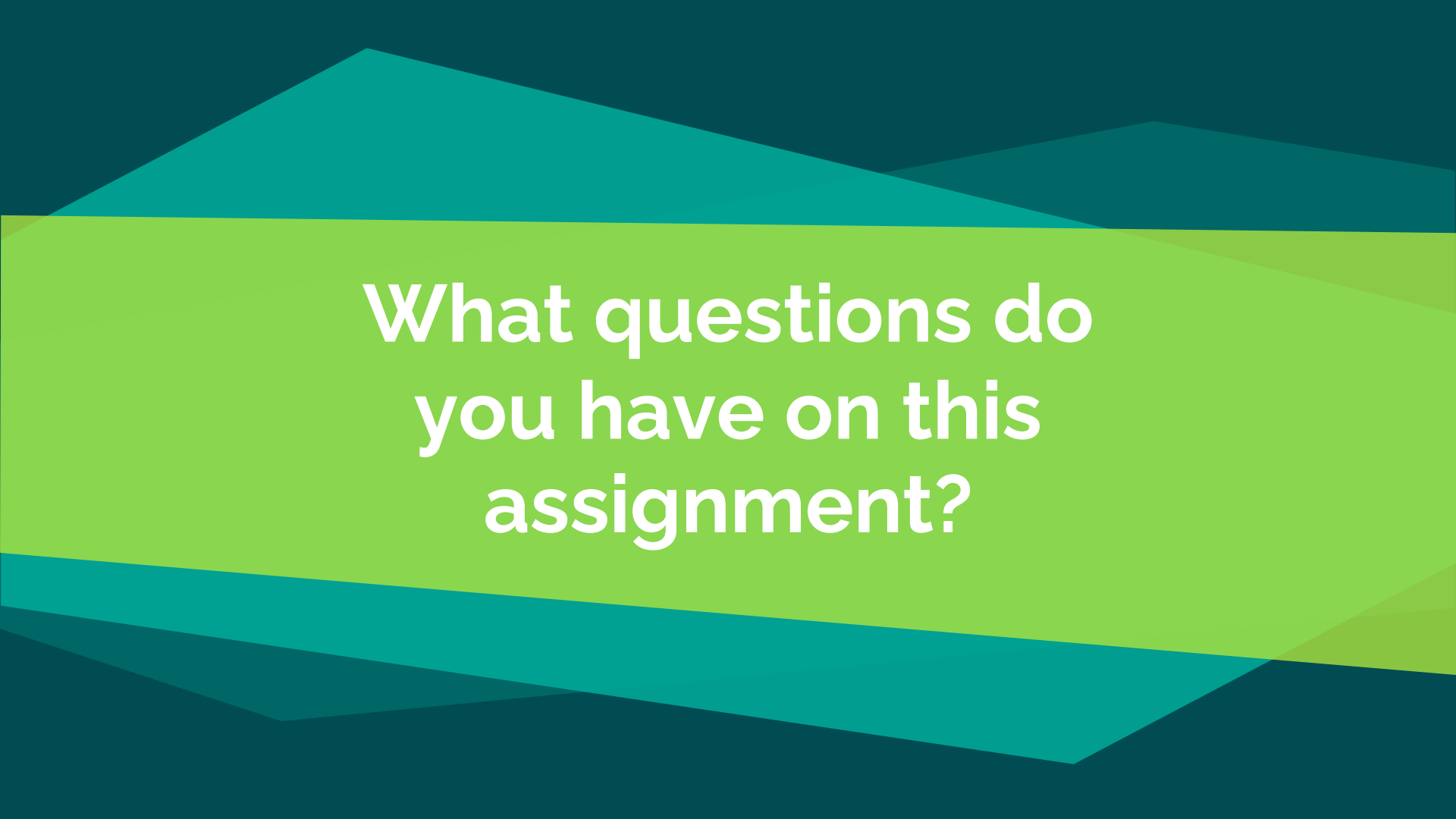
Does the winds bring in seasonal changes like a monsoon? Or does the prevailing winds bring in colder weather or moisture?

Mountain Ranges

Are there mountains which either cause more rain to fall or cause less rain to fall in your location?

Map of the World





**What questions do
you have on this
assignment?**



Question:

Based on your location's climate, would you want to move there? Why or why not?