

Climate Zones

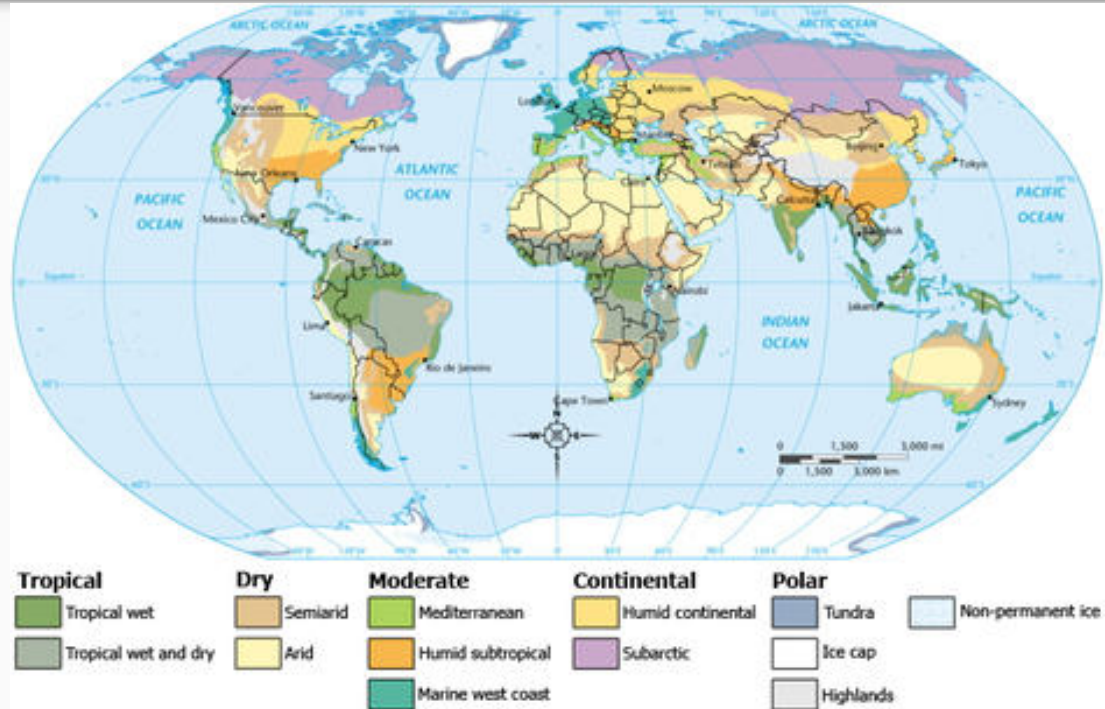
How the Atmosphere, Ocean & Cryosphere interact to create
climate

Your Task

In pairs you will be responsible for selecting a climate zone and doing the research outlined on the slides.

Make sure you include a picture of where your climate zone is located on a map.

Let's take a look at an example before we get started



Humid Continental

Precipitation: Gets precipitation all year as either rain or snow

Temperature: Hot summers and cold winters

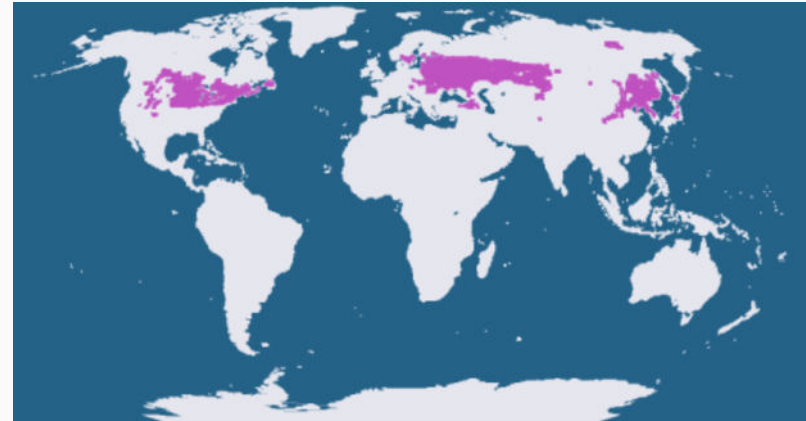
Plants: Cottonwood, ash, cherry, weeping willow, birch.

How does the Atmosphere, Ocean & Cryosphere work together to create the climate zone?

- **Atmosphere** - warm wet air comes from the distant oceans. The warmer the atmosphere the more water it can hold and is humid - low pressure - clouds
- **Ocean** - The oceans circulate warm water from the equator which warms the air farther north. Water evaporates from the ocean to make maritime tropical air mass
- **Cryosphere** - the snow and ice of the polar ice caps cools the air which moves south. As the northern hemisphere cools it decreases winter temperatures and snow can form as precipitation

How will the climate zone change due to global warming?

Humid continental will get hotter and drier with winters more like coastal humid continental and summers more like humid subtropical. There will be increased storms and extreme weather events such as tornadoes. Even though it is humid continental, there will be more droughts as a result of rising air temperatures.



Tropical Wet - Name

Precipitation:

Temperature:

Plants:

How does the Atmosphere, Ocean & Cryosphere work together to create the climate zone?

- Atmosphere -
- Ocean -
- Cryosphere -

How will the climate zone change due to global warming?



Insert Picture Here

Tropical Wet & Dry - Name

Precipitation:

Temperature:

Plants:

How does the Atmosphere, Ocean & Cryosphere work together to create the climate zone?

- Atmosphere -
- Ocean -
- Cryosphere -

How will the climate zone change due to global warming?



Insert Picture Here

Semiarid - Name

Precipitation:

Temperature:

Plants:

How does the Atmosphere, Ocean & Cryosphere work together to create the climate zone?

- Atmosphere -
- Ocean -
- Cryosphere -

How will the climate zone change due to global warming?



Insert Picture Here

Arid - Name

Precipitation:

Temperature:

Plants:

How does the Atmosphere, Ocean & Cryosphere work together to create the climate zone?

- Atmosphere -
- Ocean -
- Cryosphere -

How will the climate zone change due to global warming?



Insert Picture Here

Mediterranean - Name

Precipitation:

Temperature:

Plants:

How does the Atmosphere, Ocean & Cryosphere work together to create the climate zone?

- Atmosphere -
- Ocean -
- Cryosphere -

How will the climate zone change due to global warming?



Insert Picture Here

Humid Subtropical - Name

Precipitation:

Temperature:

Plants:

How does the Atmosphere, Ocean & Cryosphere work together to create the climate zone?

- Atmosphere -
- Ocean -
- Cryosphere -

How will the climate zone change due to global warming?



Insert Picture Here

Marine West Coast - Name

Precipitation:

Temperature:

Plants:

How does the Atmosphere, Ocean & Cryosphere work together to create the climate zone?

- Atmosphere -
- Ocean -
- Cryosphere -

How will the climate zone change due to global warming?

Insert Picture Here

Subarctic - Name

Precipitation:

Temperature:

Plants:

How does the Atmosphere, Ocean & Cryosphere work together to create the climate zone?

- Atmosphere -
- Ocean -
- Cryosphere -

How will the climate zone change due to global warming?



Insert Picture Here

Tundra - Name

Precipitation:

Temperature:

Plants:

How does the Atmosphere, Ocean & Cryosphere work together to create the climate zone?

- Atmosphere -
- Ocean -
- Cryosphere -

How will the climate zone change due to global warming?

Insert Picture Here

Ice Cap - Name

Precipitation:

Temperature:

Plants:

How does the Atmosphere, Ocean & Cryosphere work together to create the climate zone?

- Atmosphere -
- Ocean -
- Cryosphere -

How will the climate zone change due to global warming?



Insert Picture Here

Highlands- Name

Precipitation:

Temperature:

Plants:

How does the Atmosphere, Ocean & Cryosphere work together to create the climate zone?

- Atmosphere -
- Ocean -
- Cryosphere -

How will the climate zone change due to global warming?



Insert Picture Here