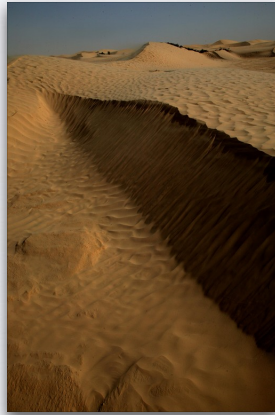


CLIMATE VARIABLES



CLIMATE VARIABLES

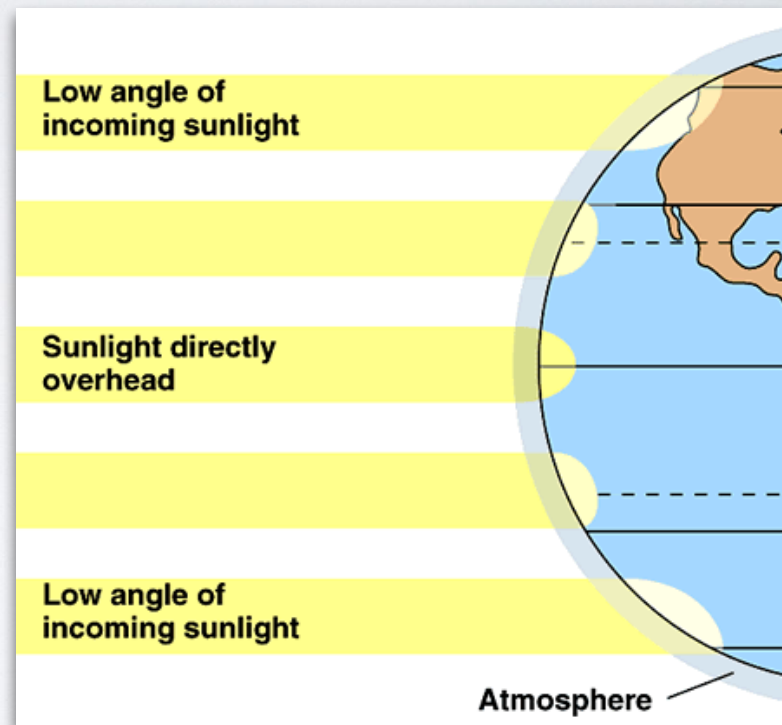
- Climate - the overall weather conditions over a long time span

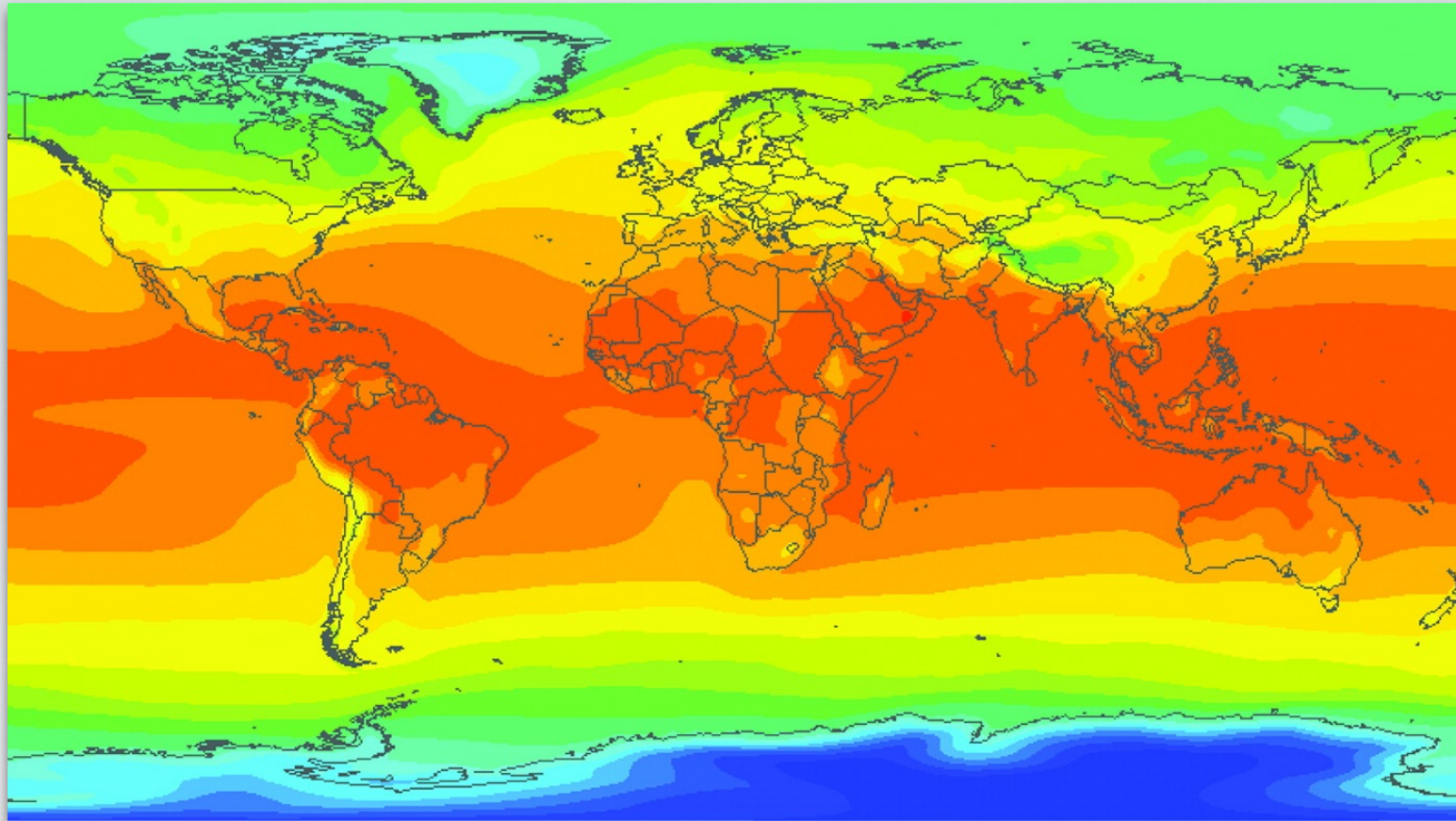


CLIMATE VARIABLES

I. Latitude and Temperature

- Temperature is affected by latitude, the angle of insolation, intensity, and duration of sunlight



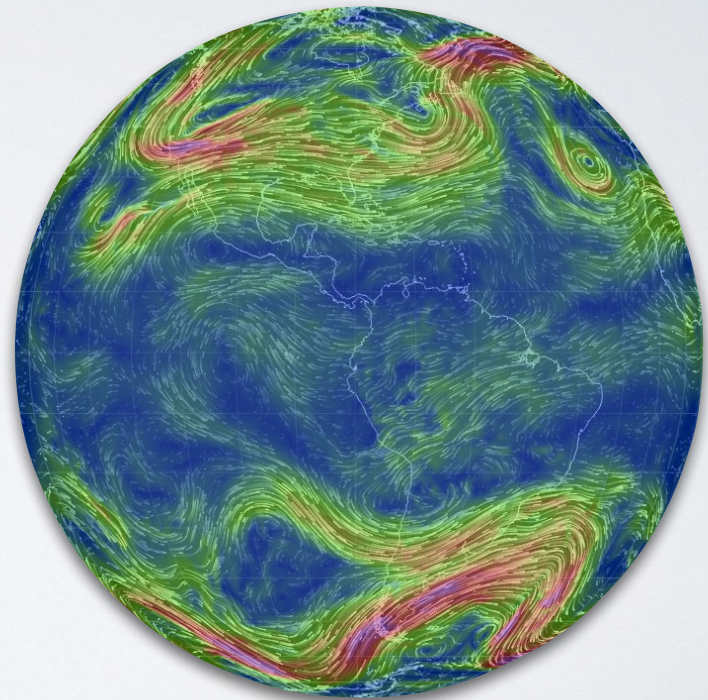


Latitude and Temperature

CLIMATE VARIABLES

2. Planetary Winds

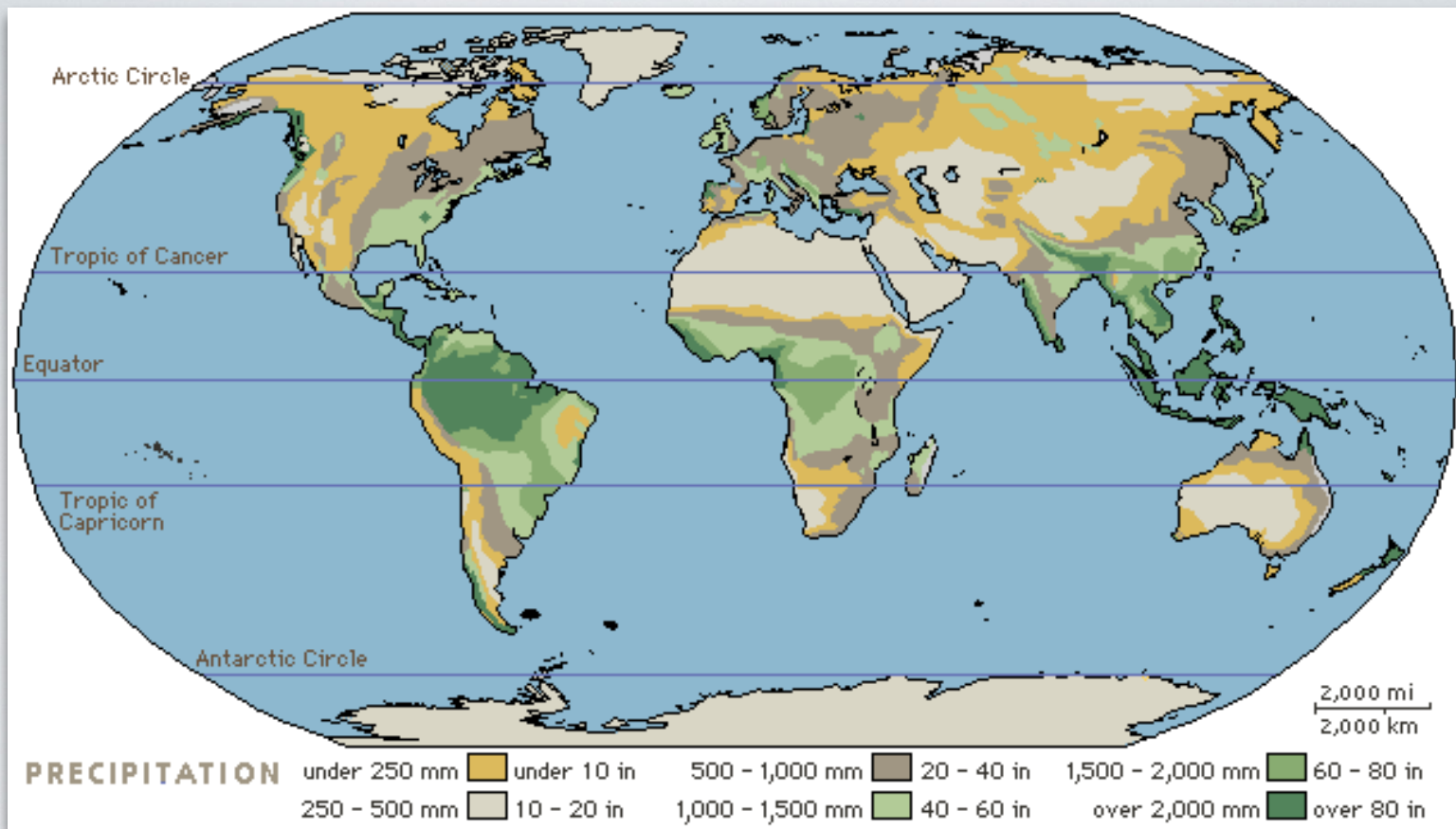
- Prevailing Winds are caused by pressure differences and redistribute heat



CLIMATE VARIABLES

3. Latitude and Moisture

- Moisture content varies with latitude due to planetary winds
 - Low Pressure at the equator causes air to rise, expand, cool, and condense to form clouds and rain
 - High pressure causes air to sink and form arid regions



Latitude and Moisture

CLIMATE VARIABLES

4. Large Bodies of Water

- Oceans, seas, lakes, and bays modify climate regions where land masses close to a body of water will be regulated by the slow rate of heating and cooling of water



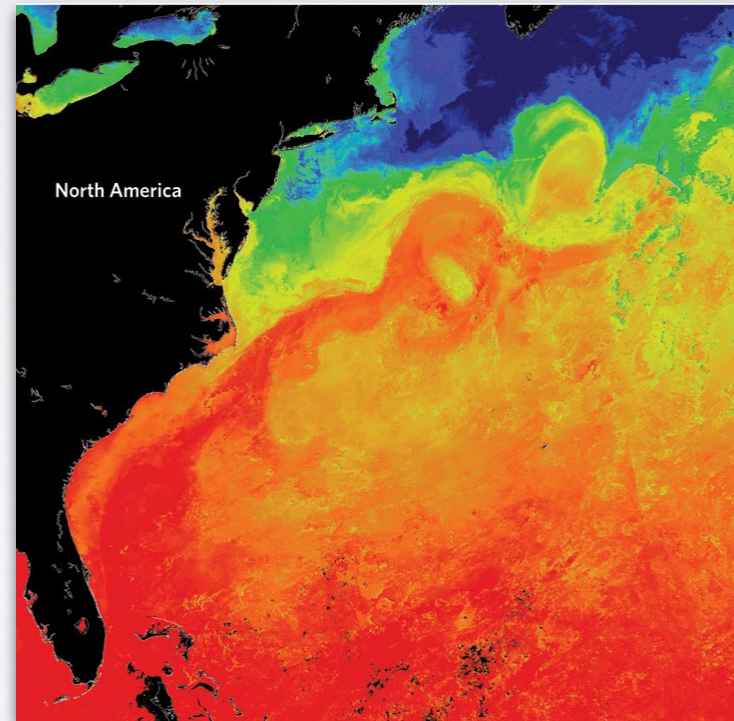


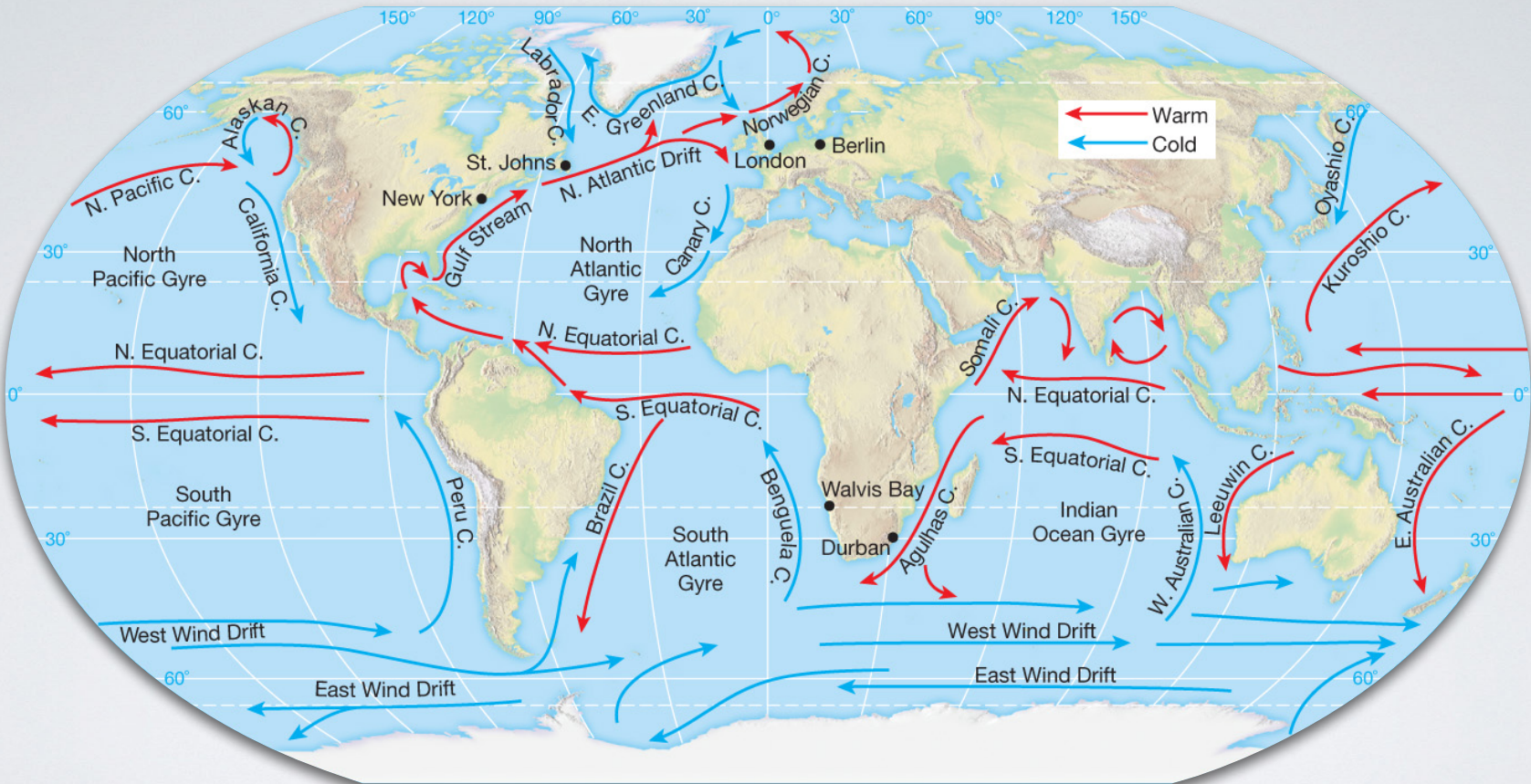
Large Bodies of Water

CLIMATE VARIABLES

5. Ocean Currents

- Coastal climates are modified by ocean currents when warm waters flow away from the equator and cold waters flow away from the poles



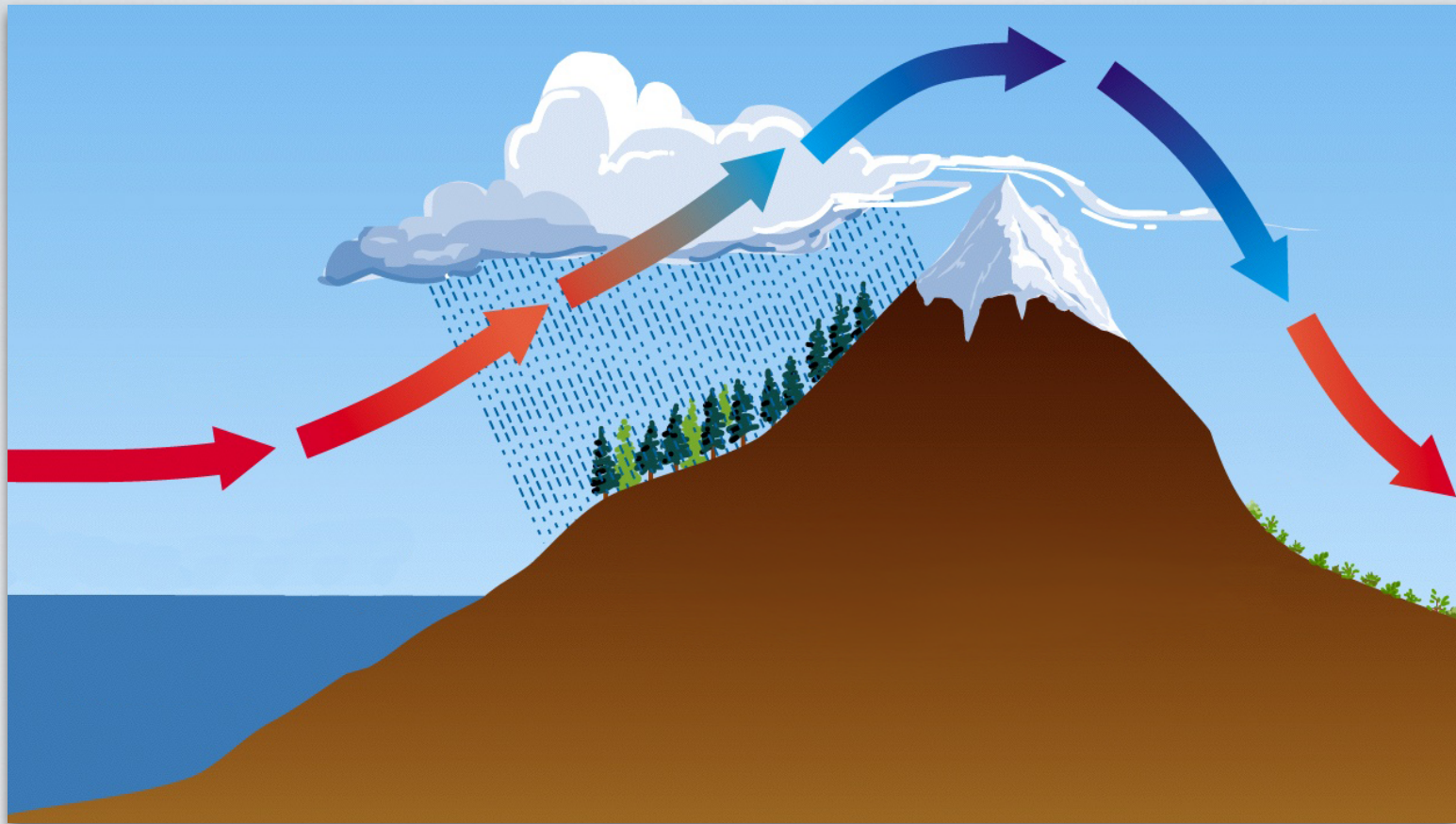


Ocean Currents

CLIMATE VARIABLES

6. Mountains and Elevation

- Higher elevations are cooler due to temperatures decreasing
- Mountains intersect planetary winds causing the air rise, expand, cool, and condense creating a cooler and more moist region on the windward side



Mountains and Elevation

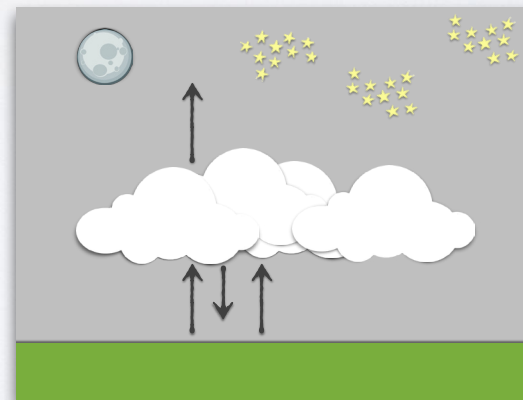
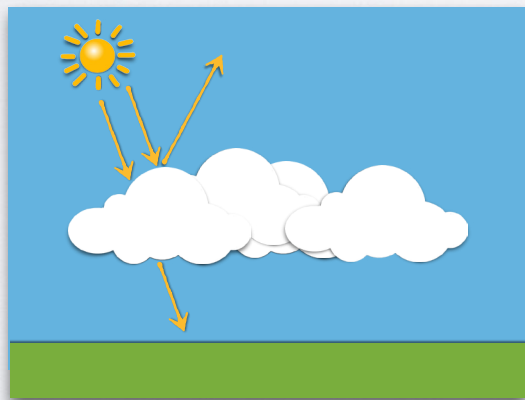


Mountains and Elevation

CLIMATE VARIABLES

7. Cloud Cover

- During the day clouds block sunlight from warming Earth's surface and at night trap heat in the atmosphere



WATER CYCLE

