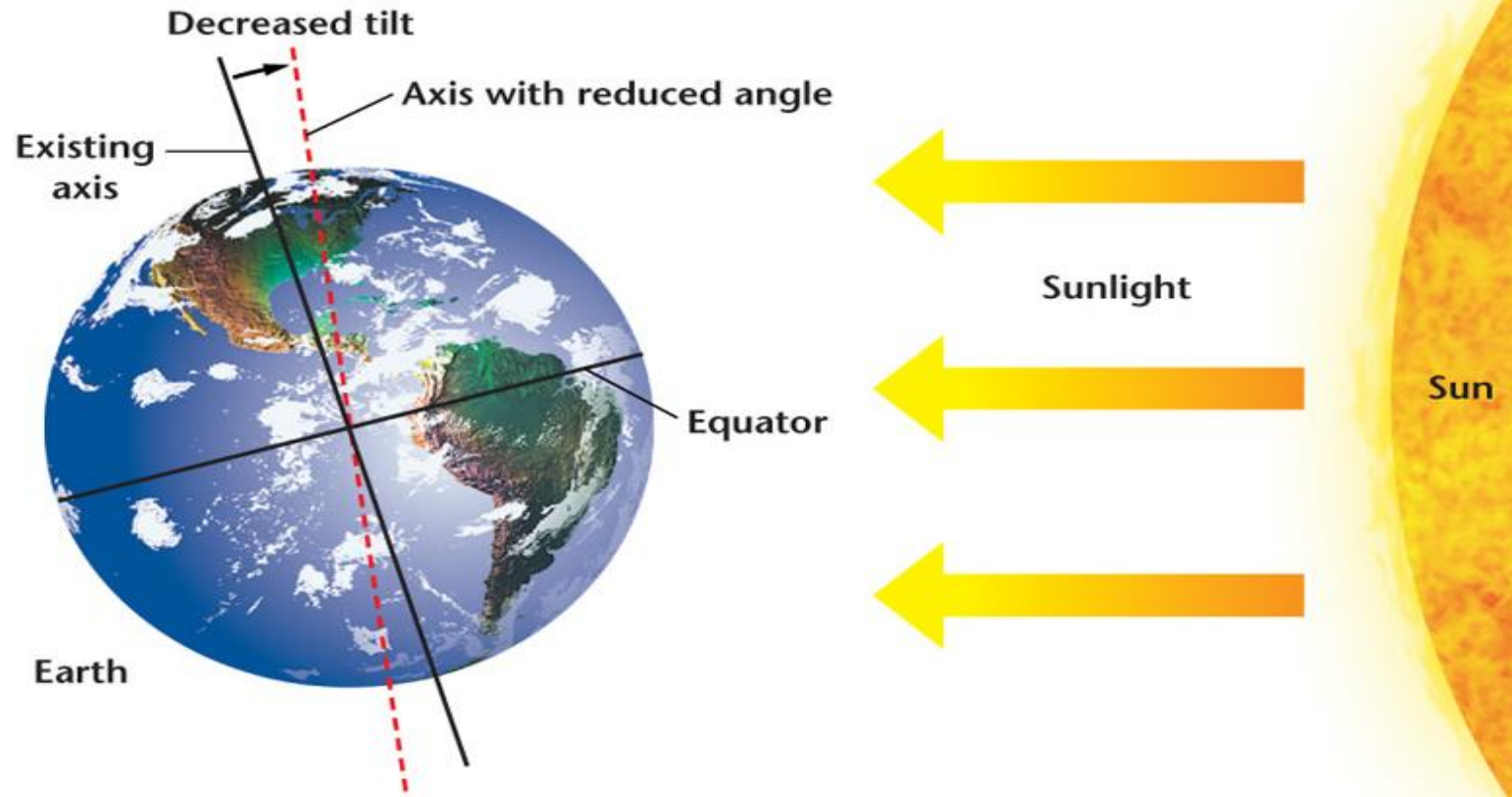


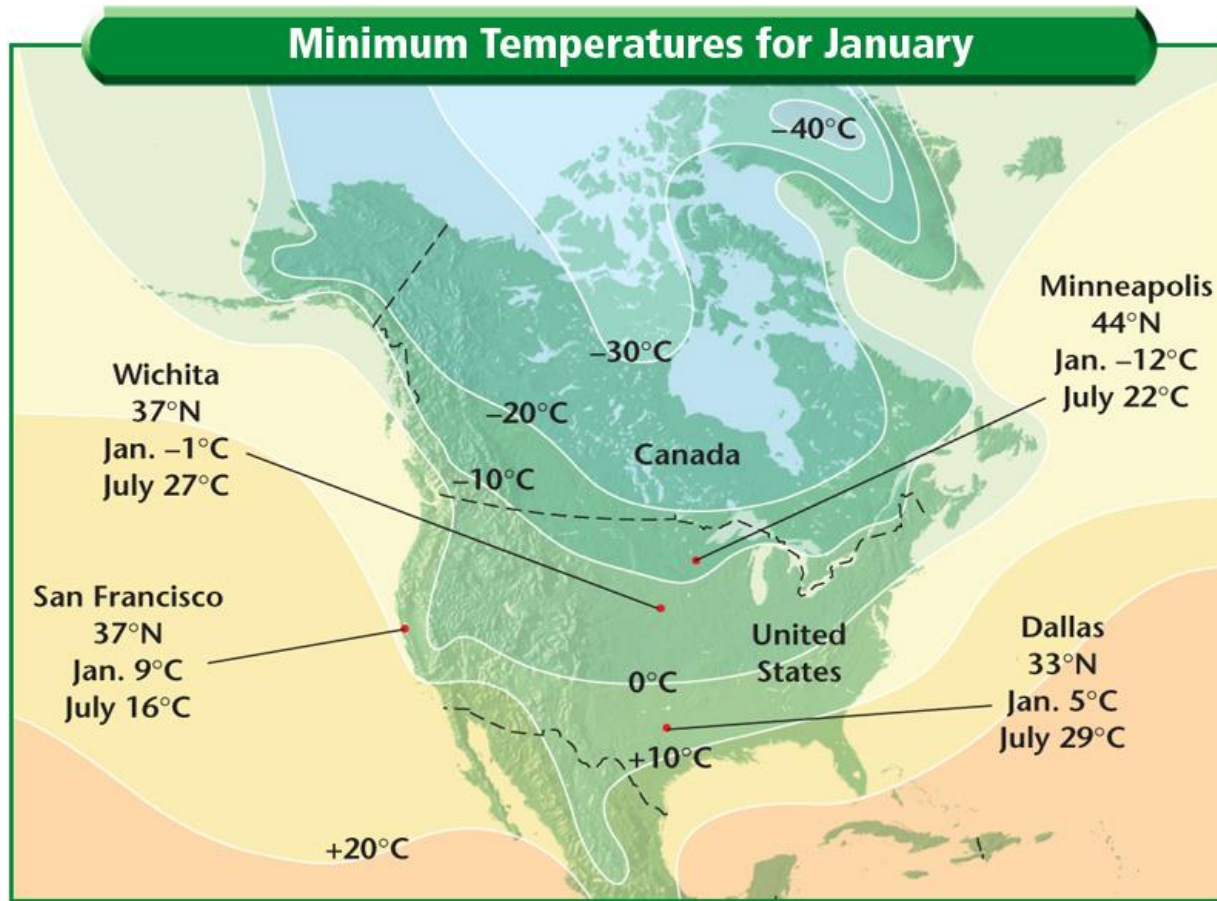
# *Koppen Climate Classification*

*Unit 7 – Ch 21.2-21.4*



# CLIMATE

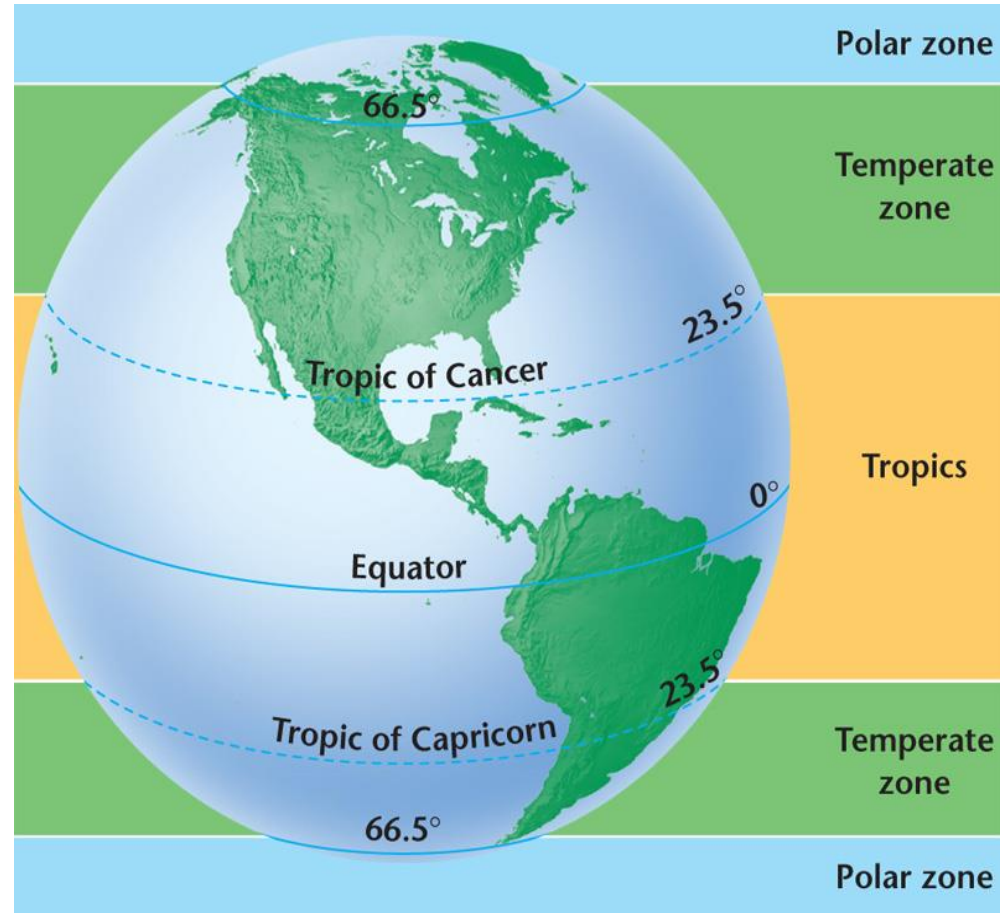
- *Long-term* patterns describing annual changes of *temp*, *precip*, & *air pressure*



# Causes of CLIMATE

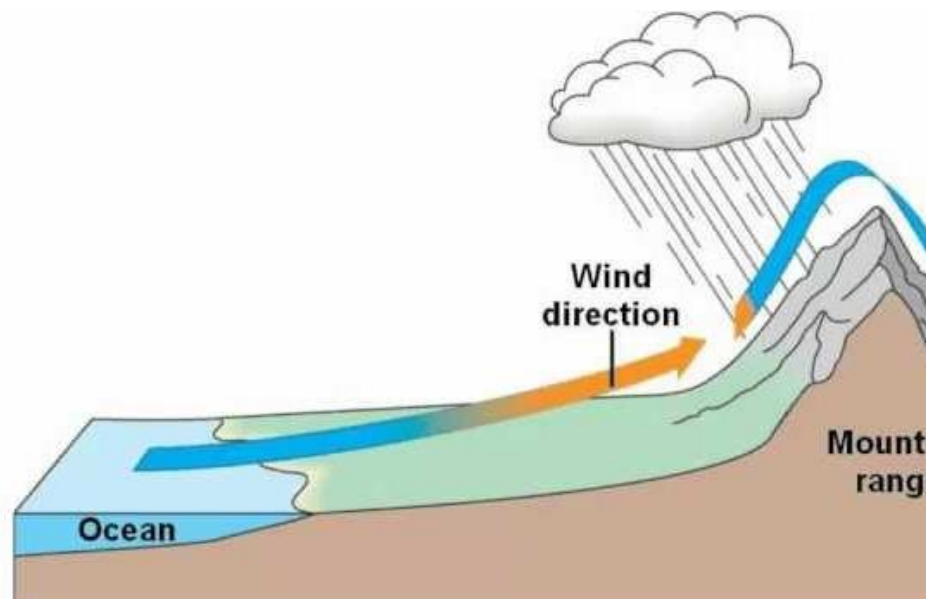
## Latitude:

- Amount of **solar radiation** received
- Earth's tilt



# Causes of CLIMATE

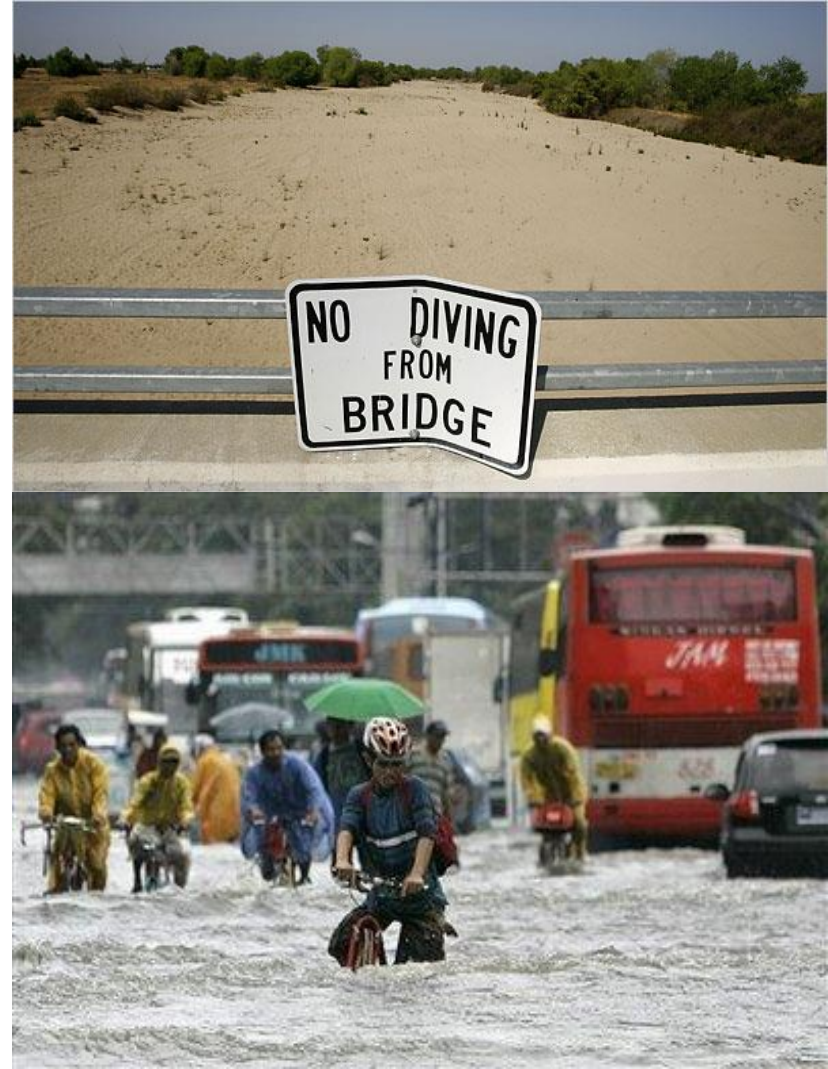
## Topography:



- Large **water** bodies affect coastal areas
- **Mountain** climates cooler than **sea level**

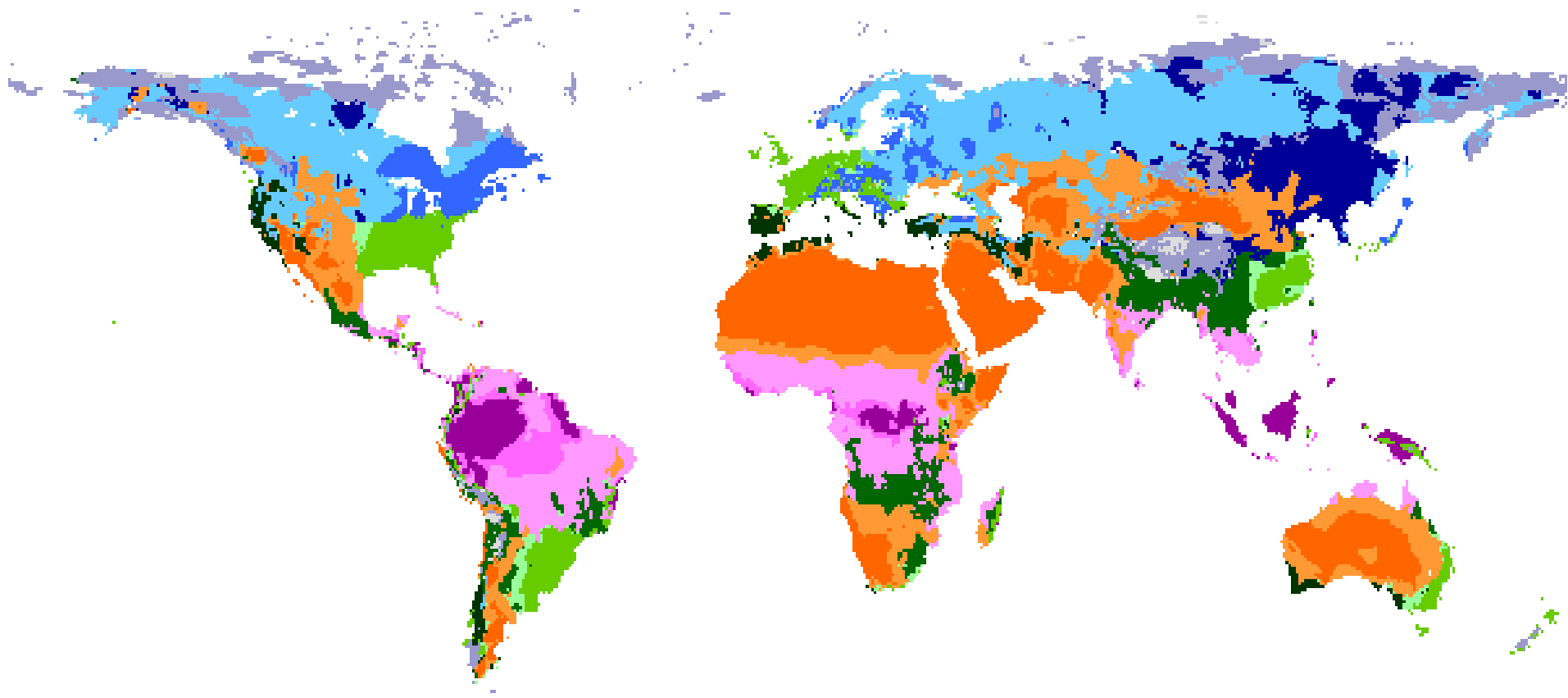
# Floods & Droughts

- *Droughts:*
  - Well-below-normal rainfall
- *Heat Waves:*
  - Above-normal temps
- *Cold Wave:*
  - Below-normal temps

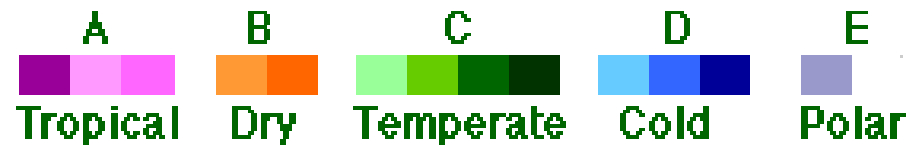




# *Koppen* Climate



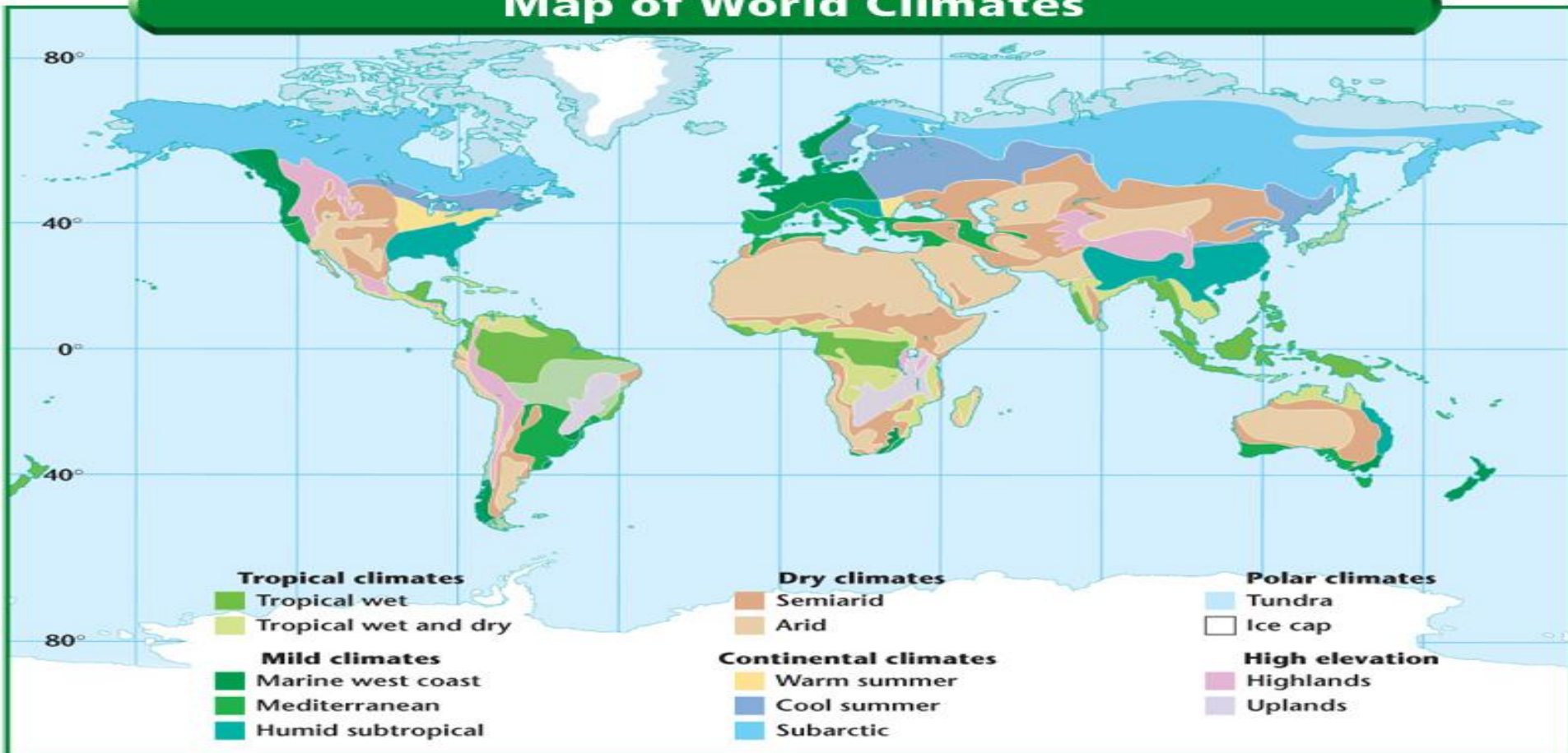
**Koepfen's Climate Classification**  
by FAO - SDRN - Agrometeorology Group - 1997



# Koppen Climate Classification

- Use of average *monthly* & *annual temp*, *precip*, and *LATITUDE* to classify climates

Map of World Climates



# *Koppen Climate Classification*

## *TROPICAL (Humid) Climates*

- Constant *high temp* and *humid* conditions





# *Koppen Climate Classification*

## *DRY/ARID Climates*

- Covers **~30%** of Earth's land area and **largest** climatic zone
- Temp changes over course of day & night



# *Koppen Climate Classification*

## *TEMPERATE (Mild) Climates*

- Regulated by ***coastal waters***
- ***Three (3)*** sub-types:
  - ***Humid Subtropical***
  - ***Marine West Coast***
  - ***Mediterranean***





# *Koppen Climate Classification*

## *CONTINENTAL* *Climates*



- Regulated by strictly **land**
- Three (3) sub-types:
  - ***Warm Summers***
  - ***Cool Summers***
  - ***Subarctic***

# *Koppen Climate Classification*

## *POLAR* *Climates*

- *Arctic & Antarctic* - *Coldest* regions
- Average temp of *warmest* month = *<50° F*

