## Climate Systems

Chapter 20.3 \& 21.1


## What causes CLIMATE?

- An area's climate is caused by a combination of three factors:
- Latitude
- Topographic Effects
- Air masses

Just as weather differs daily, climate also differs from place to place


## YOU GONIBOL GLIMATE GHANGE.

## $2^{\text {nd }}$ Cause of Climate: <br> Topographic Effects

Land vs. Water

- Coastal areas = wetter and moderate temperatures
- Inland areas = drier and more extreme temperatures warmer



## $3^{\text {rd }}$ Cause of Climate:

Air Masses

- Same types of air masses move into the same area at the same time each year.
- Air masses bring the characteristics of their source regions (cP, mT, etc).
- Air masses moving in interact with the air masses present to influence climate.


## CLIMATOGRAMS

Climograph for NewYork, NY


- Displays annual average precip \& temp for any area
- Used to compare climate in different places



## Putting It Together...

- Include title \& symbols key that represents $\underline{a v g}$ precip and $\underline{q v g}$ temp

CLIMATE OF ORLANDO, FLORIDA


