## Air Masses and Fronts

You are so full of hot air!!!

# Air Masses Air Mass: Large body of air Properties are nearly uniform throughout Moisture content and temperature are determined by where formed Usually cover many square miles

• Forms when air sits over a large region for days

## Maritime Tropical

- Forms over the ocean near the equator
- Warm, moist air
- Brings hot, humid air in the summer
- Brings snow in the winter



# Maritime Polar

- Forms over Pacific Ocean in both summer and winter
- Forms over North Atlantic in summer
- Cold, moist air
- Brings cooler temps and fog in summer
- Brings heavy snow and cold temps in winter

# **Continental Tropical**

- Forms over Mexico and SW U.S.
- Brings hot, dry air
- Produces droughts

















### **Occluded Front**

- Occurs when a cold air mass moves toward cool air with warm air between the two
- The colder air forces the warm air upward, closing off the warm air from the surface



#### Weather at a Occluded Front

- Cold front overtakes a warm front and forces the air to rise
- Produces steady rain or snow, sometimes thunderstorms
- After the front passes, the weather becomes colder
- Cloud type: Nimbostratus and cumulonimbus







