

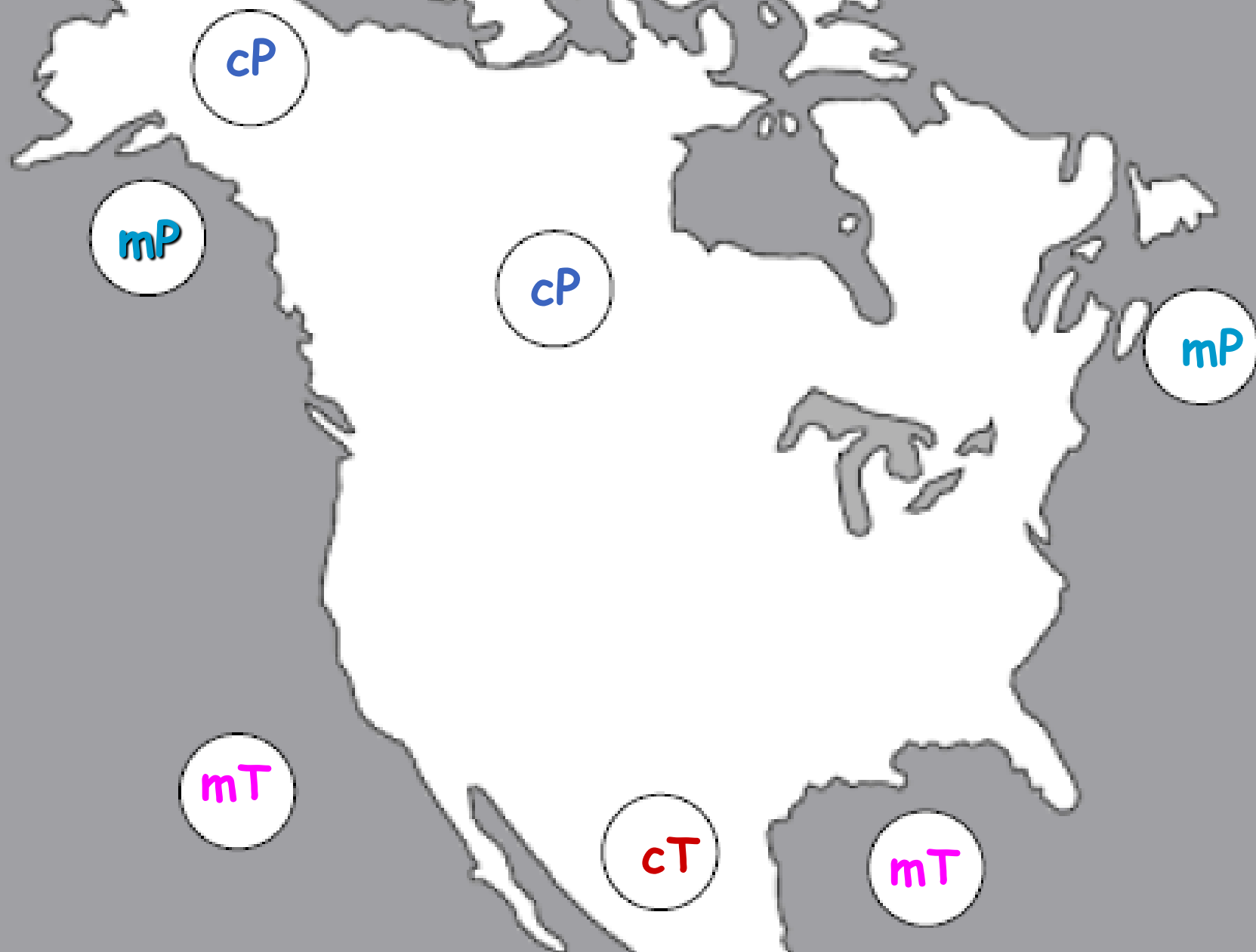
Air Masses & Fronts

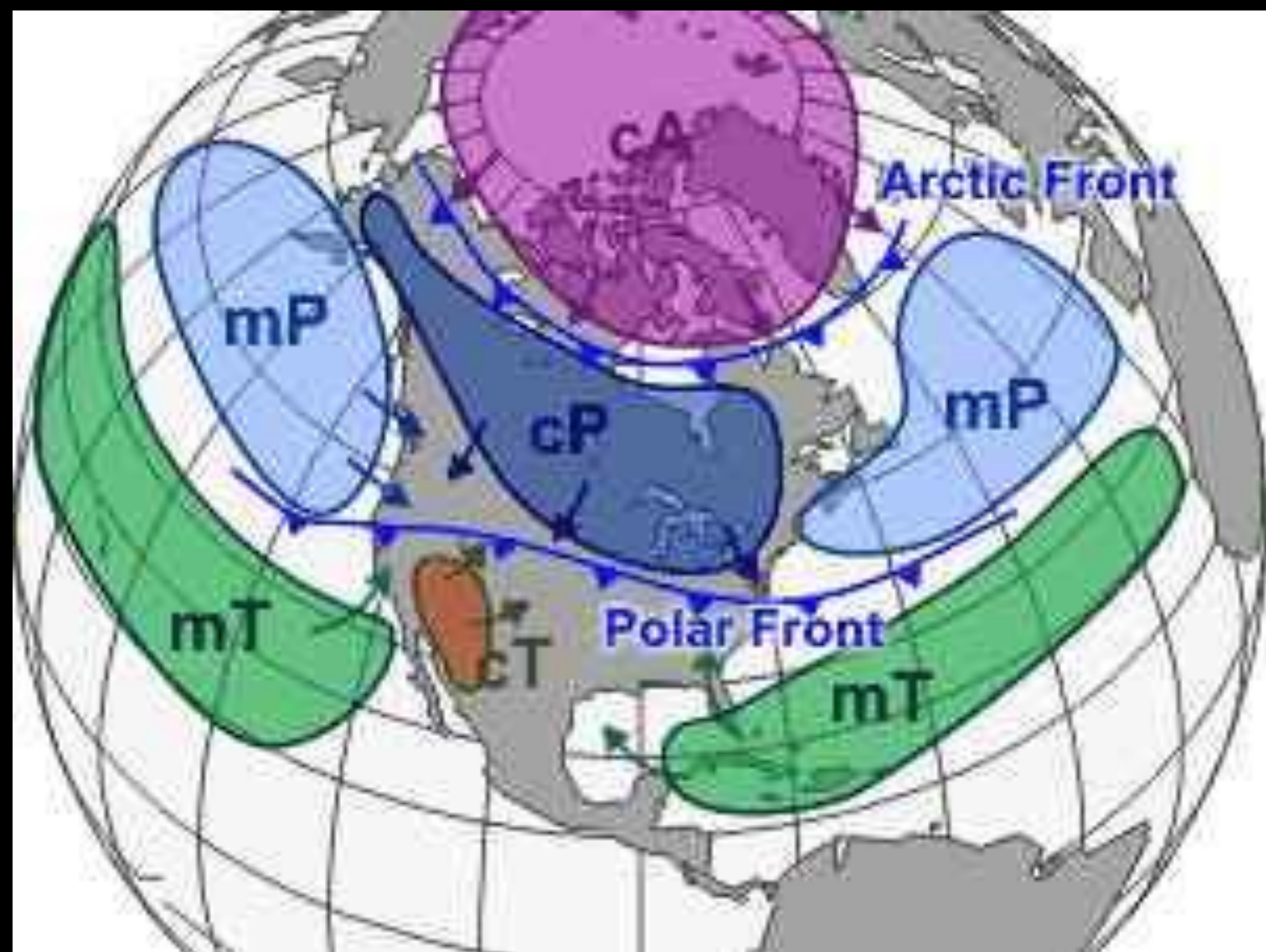
Air Masses

1. Large region of the atmosphere with uniform temperature and humidity.
2. Source Region: location where an air mass forms and develops its primary characteristics.

Symbol- Source Region	Written Form	Type Of Weather
cP	Continental Polar	Dry & Cold
cT	Continental Tropical	Dry & Warm
mP	Maritime Polar	Wet & Cold
mT	Maritime Tropical	Wet & Warm
cA	Continental Arctic	Dry & Very Cold

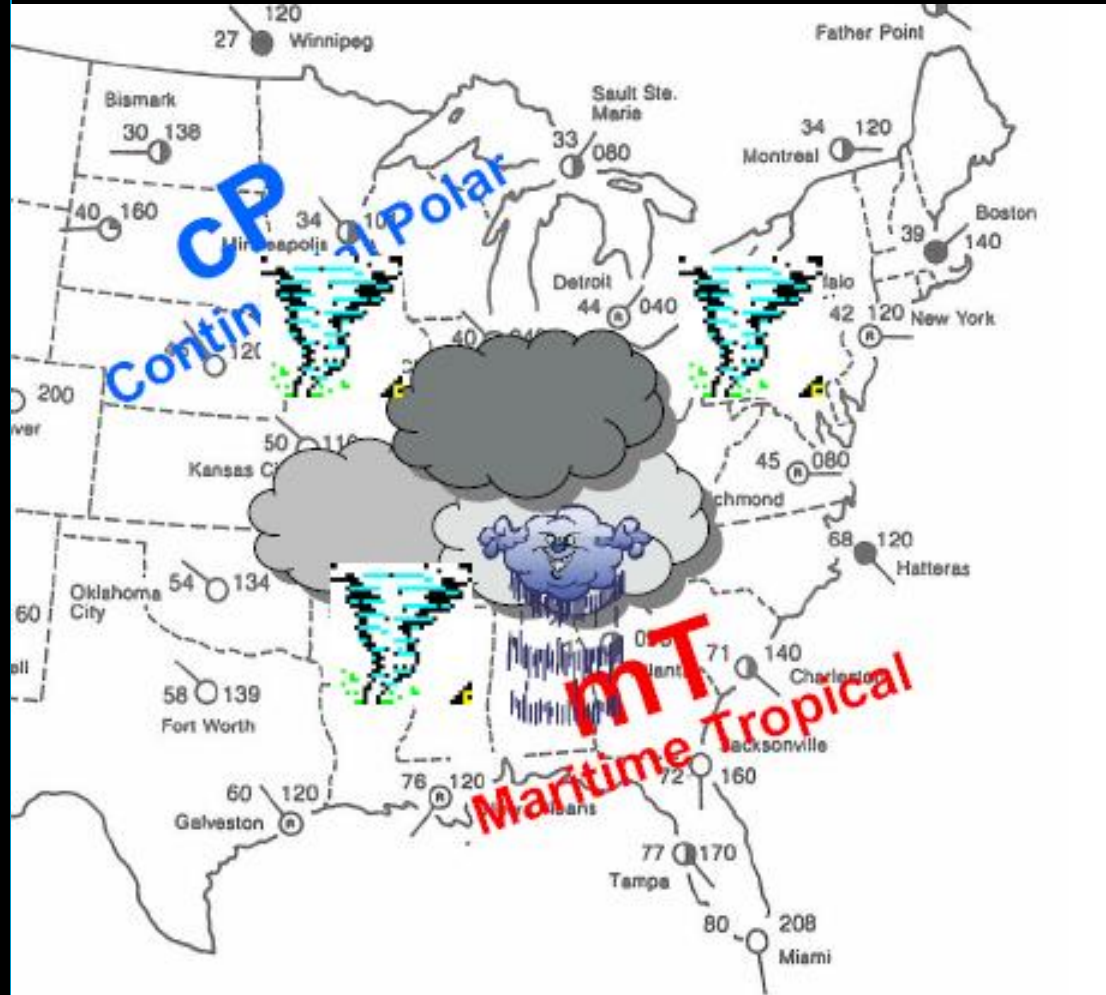
Source Regions





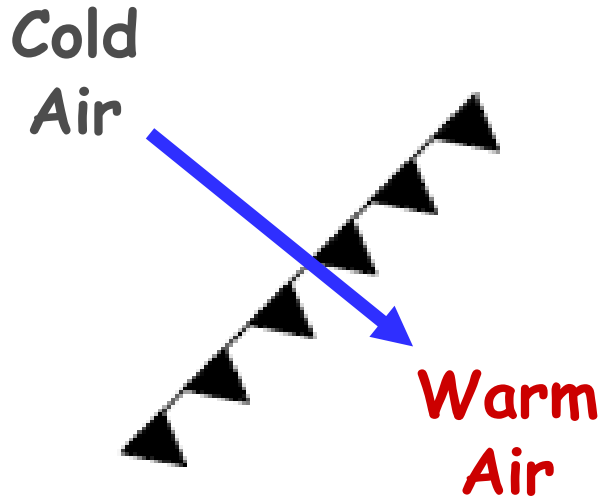
Fronts ESRT pg. 13

1. The boundary between 2 Air Masses.
2. Usually produces precipitation.
3. Violent weather can sometimes occur.

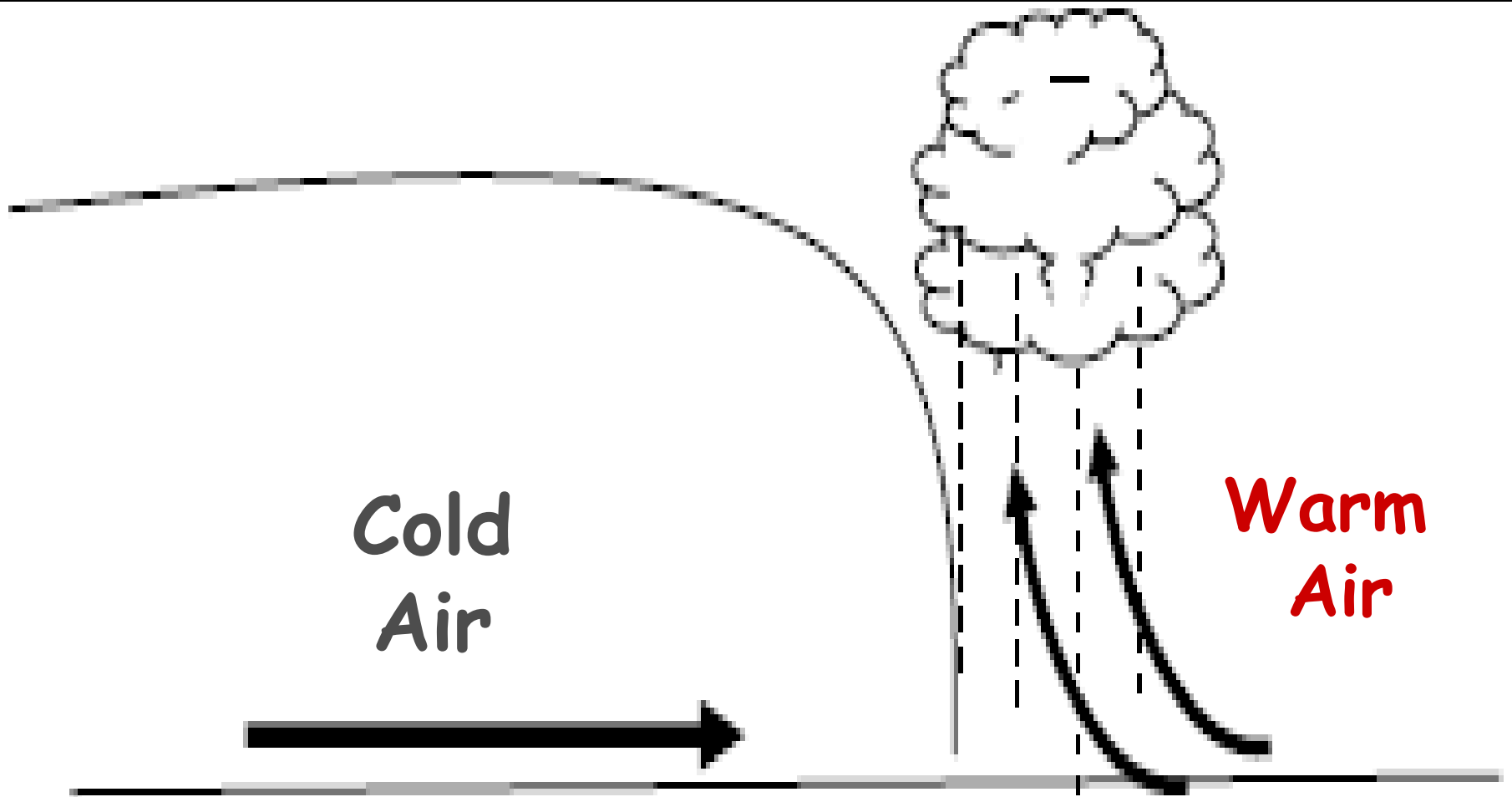


Cold Front

Weather Map Symbols

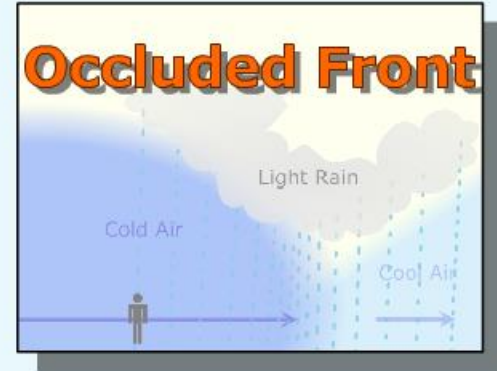
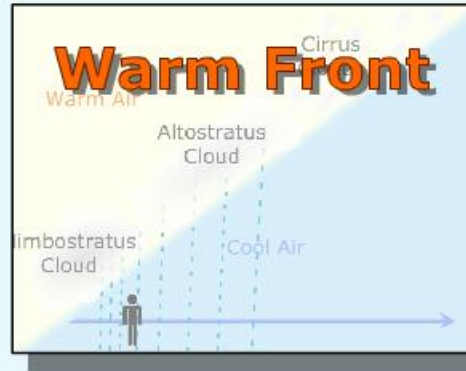
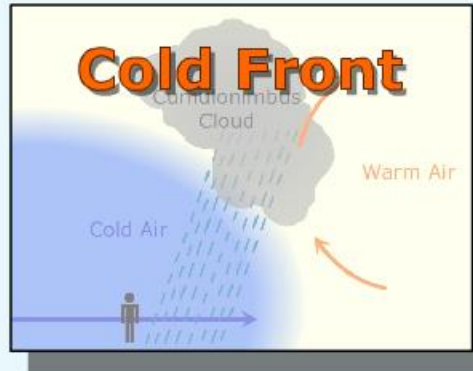


1. Cold air advances onto warm air QUICKLY.
2. The warm moist air is forced up because it is less dense.
3. Produces heavy precipitation (T-Storms),
4. Short-lived periods of precipitation.
5. Precipitation occurs AT the interface.
6. Brings clear skies and cooler temperatures.

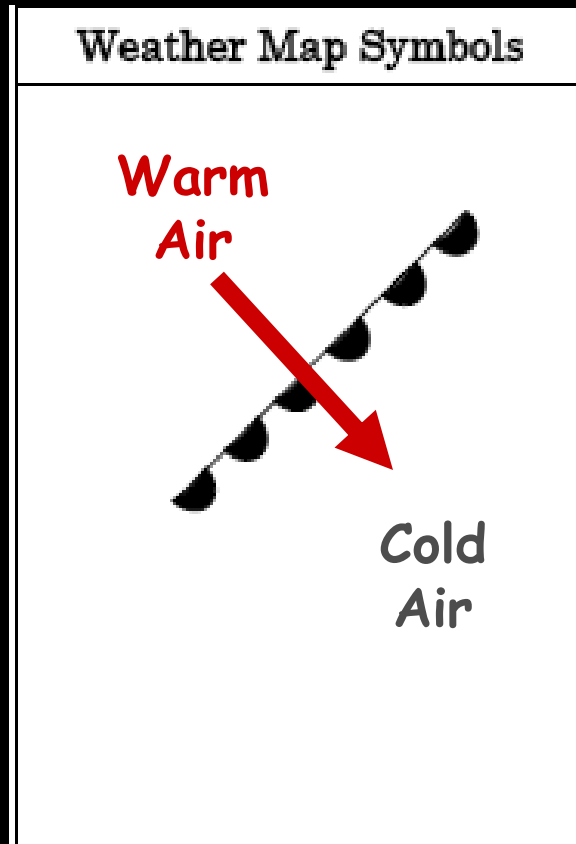


Movement of Fronts

Choose one to see how air masses move along a front.



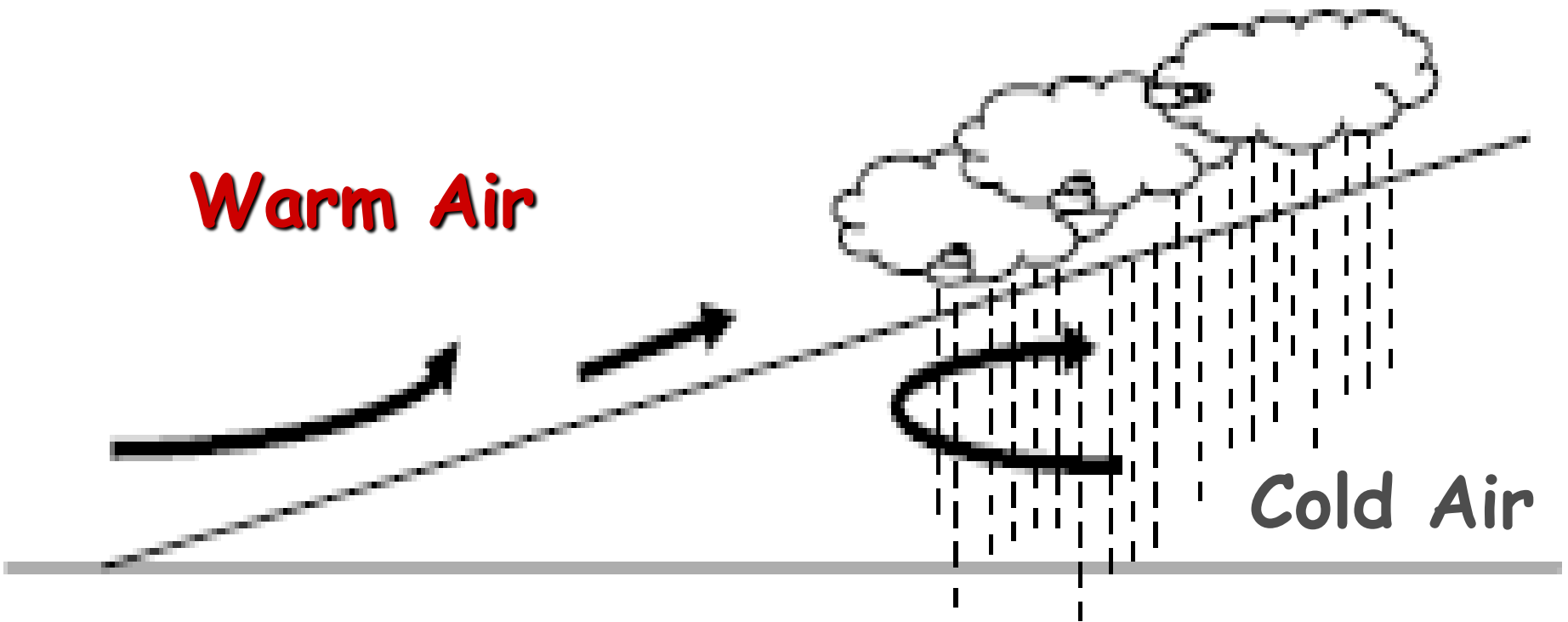
Warm Front



1. Warm air advances onto cold air SLOWLY.
2. The warm moist air gently rolls over the colder air because it less dense.
3. Produces long steady precipitation (for hours).
4. Precipitation occurs AHEAD OF the interface.
5. Brings warmer temperatures with overcast skies.

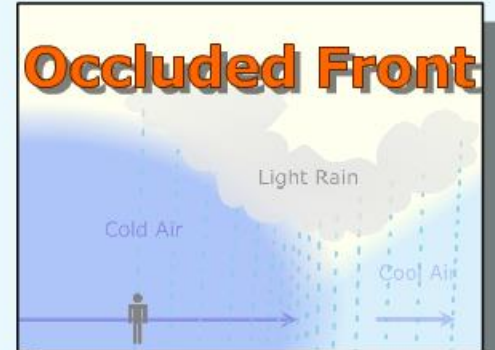
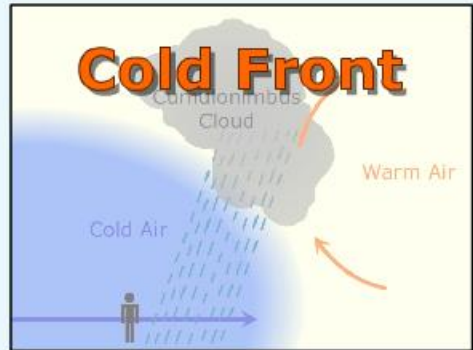
Warm Air

Cold Air



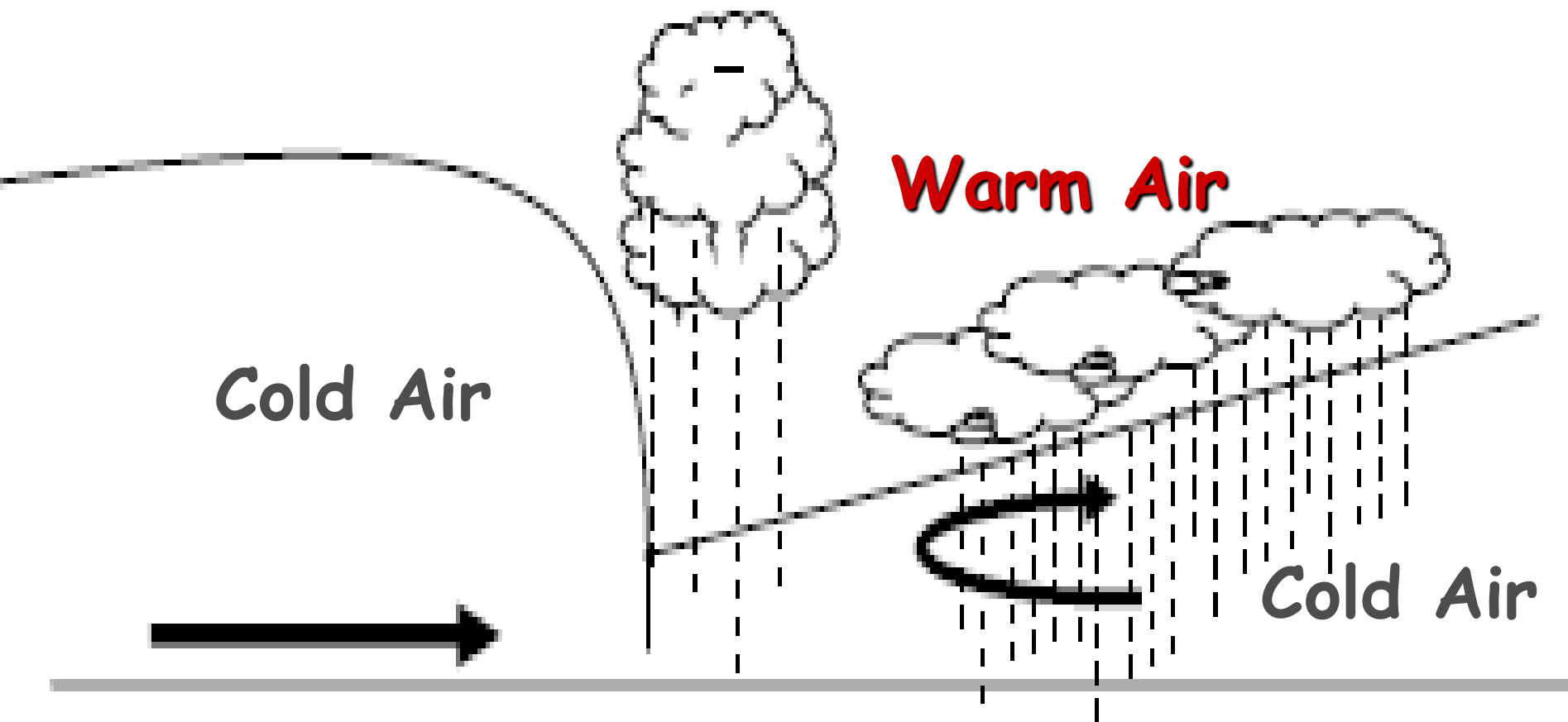
Movement of Fronts

Choose one to see how air masses move along a front.



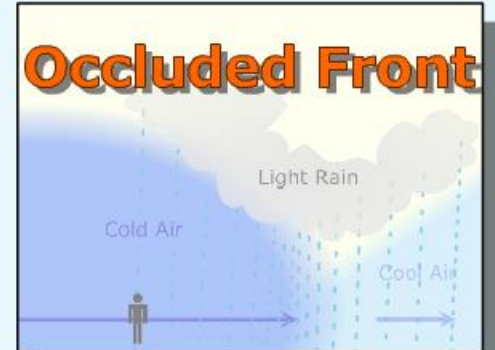
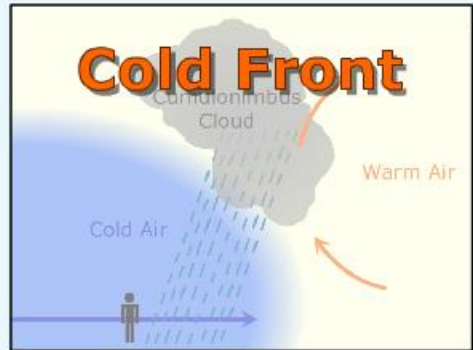
Occluded Front

1. COLD FRONT advancing onto a WARM FRONT.
2. Cold front over takes the warm front because it moves faster.
3. Warm Air is forced upward because it is less dense.

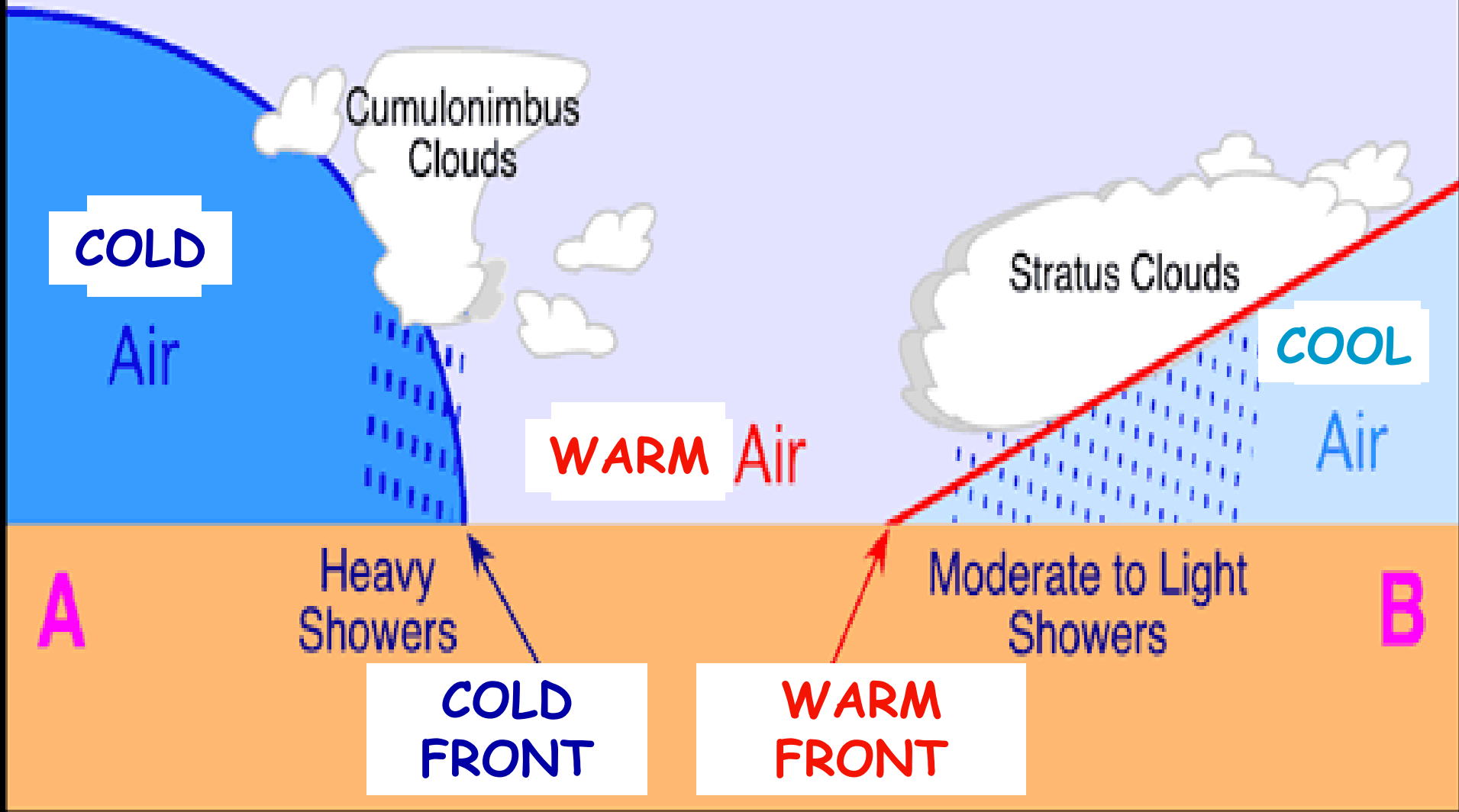


Movement of Fronts

Choose one to see how air masses move along a front.



Direction of Storm Movement



Stationary Front

Weather Map Symbols

Cold
Air



Warm
Air

1. Stationary means the front is not moving.
2. Movement is difficult to predict
3. Winds are blowing in opposite directions on each side of the front.
4. Clouds can last for days.

Weather Fronts

Weather Fronts

Loading...





0 %

Loading