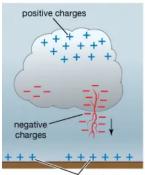


Key Vocabulary	
Atmosphere	The atmosphere is the layer of gas that surrounds the Earth.
Air Masses	An air mass is a volume of air defined by its temperature and water vapour content. Colder air masses are called polar or arctic, while warmer air masses are called tropical.
Fronts	A weather front is a boundary between two air masses.
Occluded	Occluded fonts are formed when a cold front overtakes a warm front.
Barometer	An instrument used to measure air pressure.
Satellite	Any object that moves around, or orbits, another object in space.
Climate	Climate is the average measurements of temperature, wind, humidity, snow, and rain in a place over the course of years.

#### How lightning develops



Cold

and dry air

Cold From

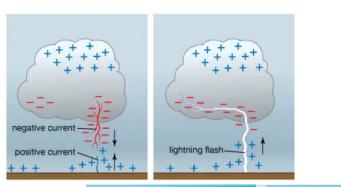
positive charges

Warm air

Occluded Front

Cool

air



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#### Polar Maritime Air Mass

From: Greenland / Arctic Sea Wet, cold air brings cold showery weather.

### **Returning Polar Maritime**

From: Greenland / Arctic via North Atlantic Moist, mild and unstable air bringing cloud and rain showers.

# Tropical Maritime Air Mass

From: Atlantic Warm, moist air brings cloud, rain and mild weather.

## Tropical Continental Air Mass

Polar Continental Air Mass

From: Central Europe

Hot air brings dry summers. Cold air brings snow in winter.

Arctic Maritime Air Mass From: Arctic Wet, cold air brings snow in winter.

> From: North Africa Hot, dry air brings hot weather in summer.