

Review/Practice

# WEATHER AND CLIMATE #7



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# WHAT IS MORE DENSE AND SINKS, COLD AIR OR WARM AIR?

- × Cold Air

A \_\_\_\_\_ FRONT OCCURS WHEN A WARM  
AIR MASS OVERTAKES A SLOW-MOVING  
COLD AIR MASS

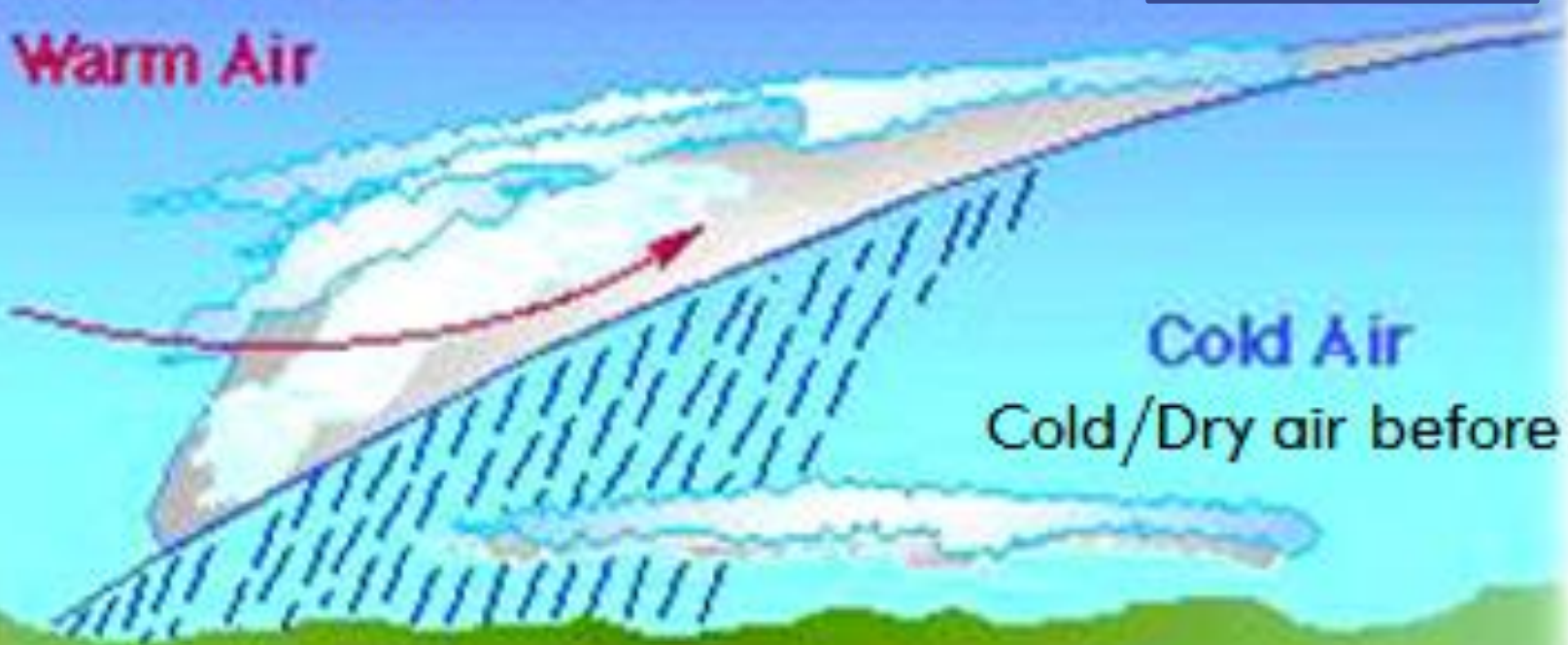
× Warm Front

# WHAT TYPE OF FRONT IS THIS?

- × Warm Front

Warm/Humid air after

**Warm Air**



**Cold Air**

Cold/Dry air before

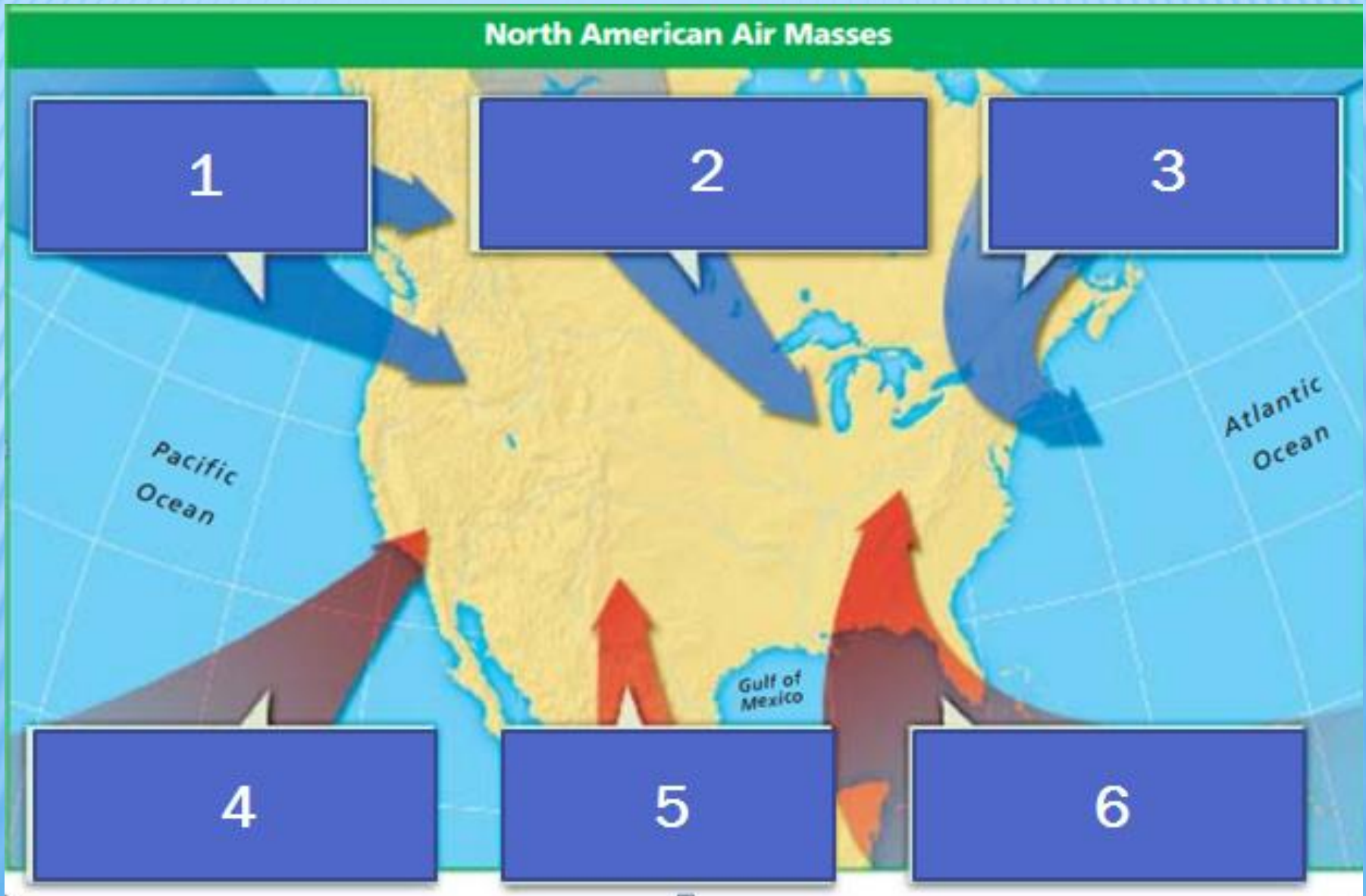
# IN A LOW PRESSURE SYSTEM WHAT IS THE WEATHER LIKE?

- × Cloudy with a high chance of precipitation



# LIST ALL THE WARM/TROPICAL AIR MASSES:

## North American Air Masses



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# WHAT IS ANOTHER NAME FOR A CYCLONE?

- × Low Pressure System

**THE BOUNDARY WHERE TWO UNLIKE AIR  
MASSES MEET IS CALLED A WHAT?**

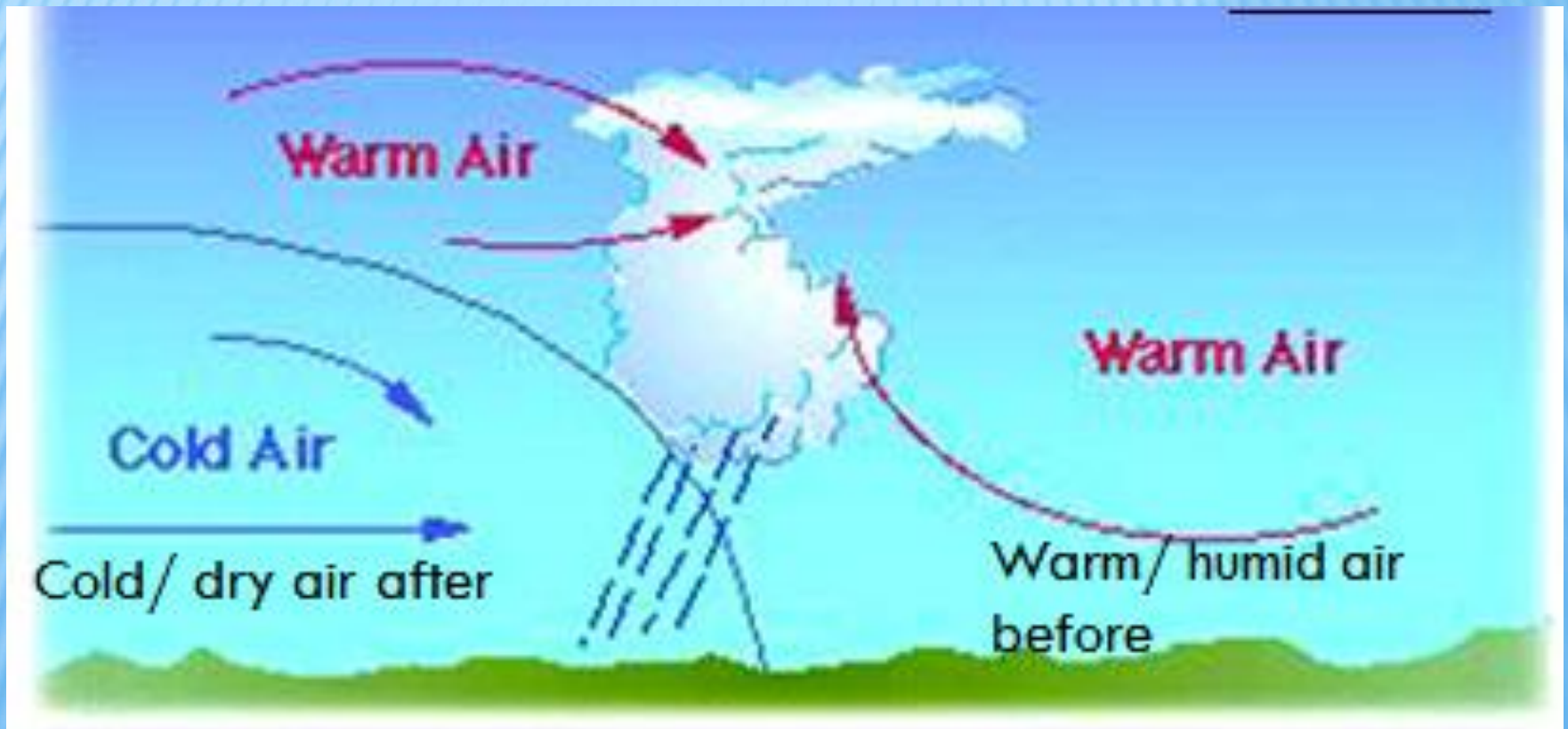
× Front





# WHAT TYPE OF FRONT IS THIS?

× Cold Front



# AIR MASSES ARE CLASSIFIED BY \_\_\_\_\_ AND \_\_\_\_\_

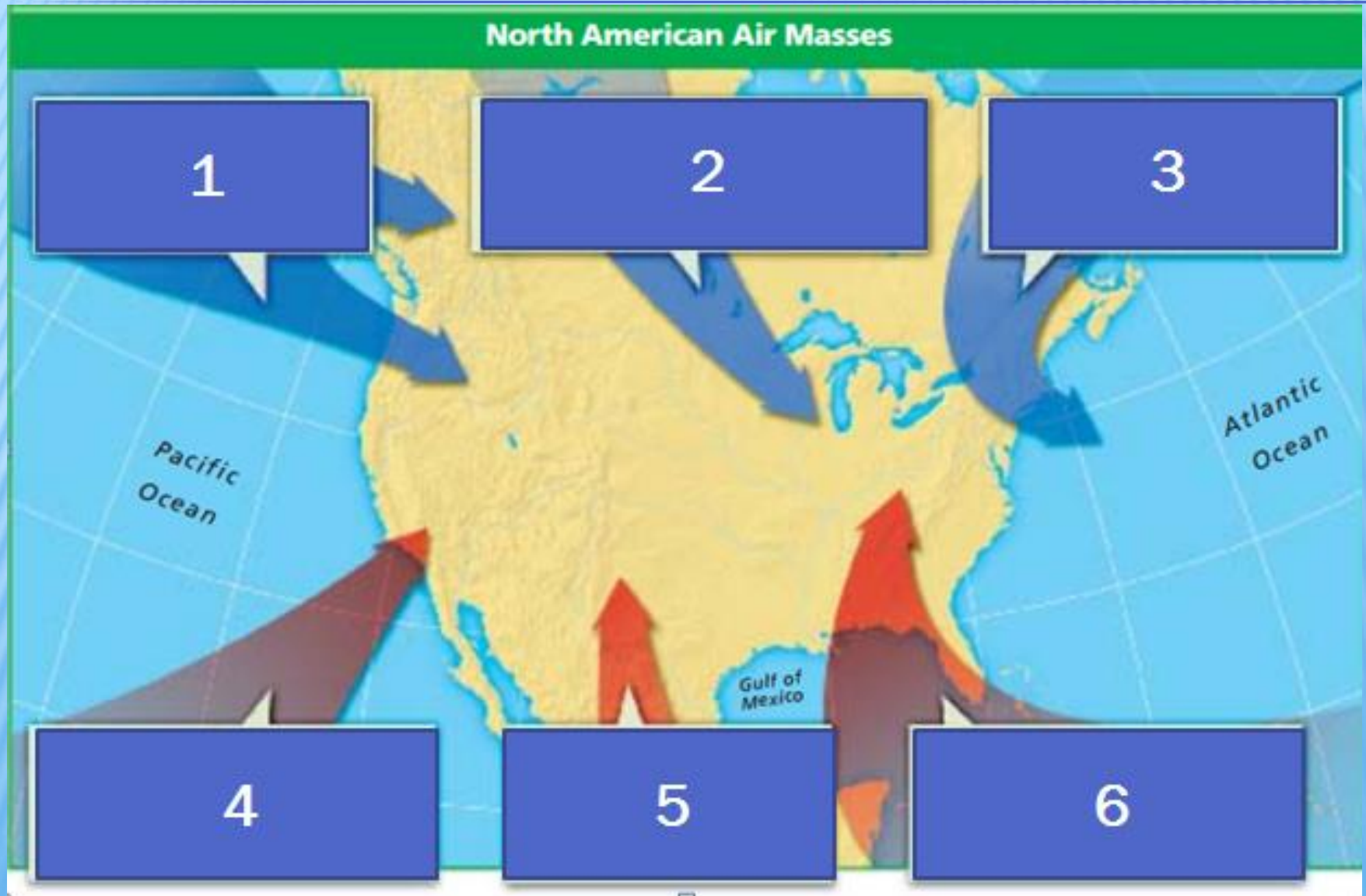
- × Temperature and Humidity

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**IN A LOW PRESSURE SYSTEM IS AIR  
PUSHED UP OR DOWN?**

× Up

# LIST ALL THE POLAR AIR MASSES:

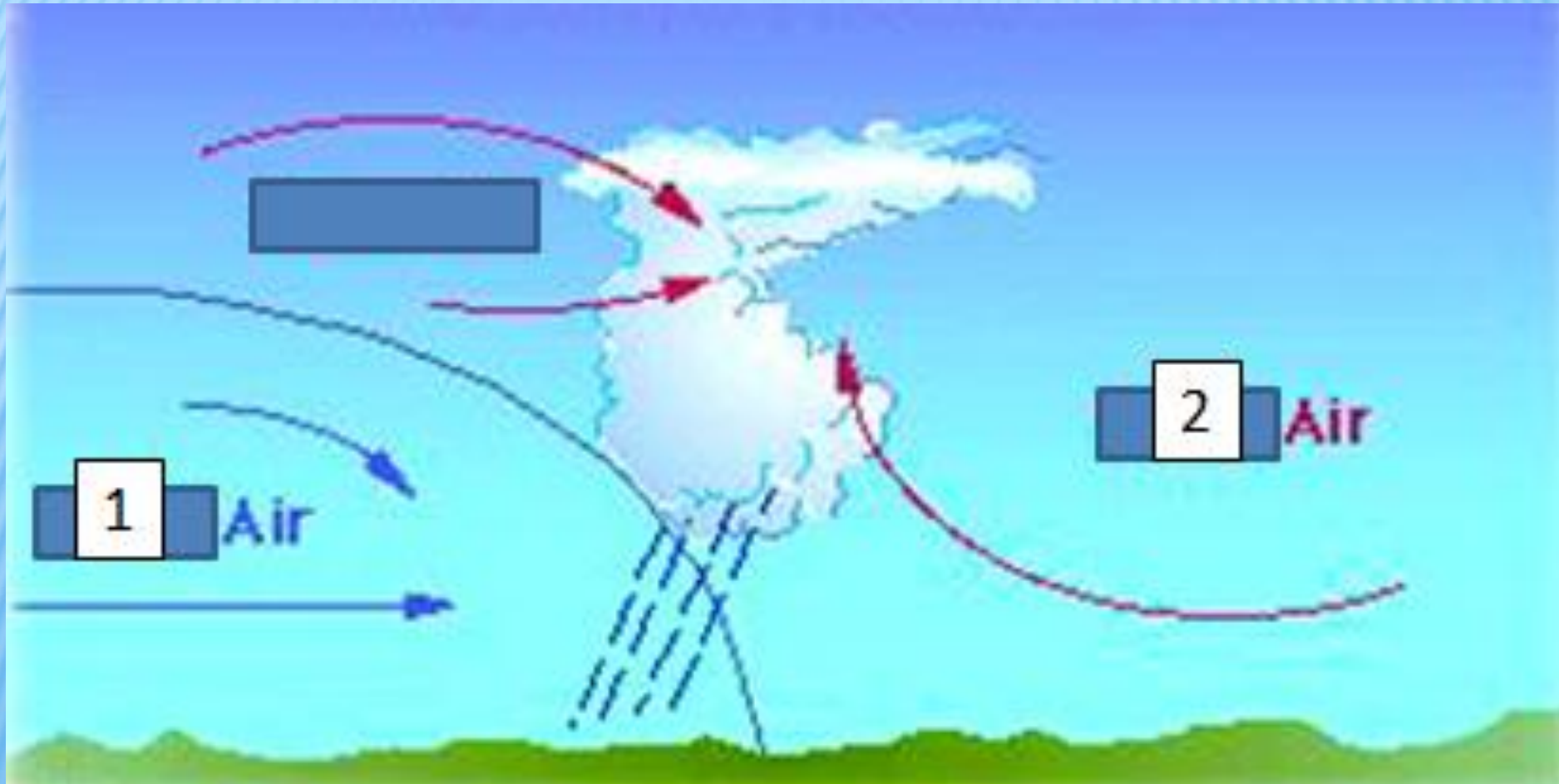


# WHAT TYPE OF FRONT CAN CREATE F4 AND F5 TORNADOES?

- × Cold Front



# 1: COLD AIR 2: WARM AIR



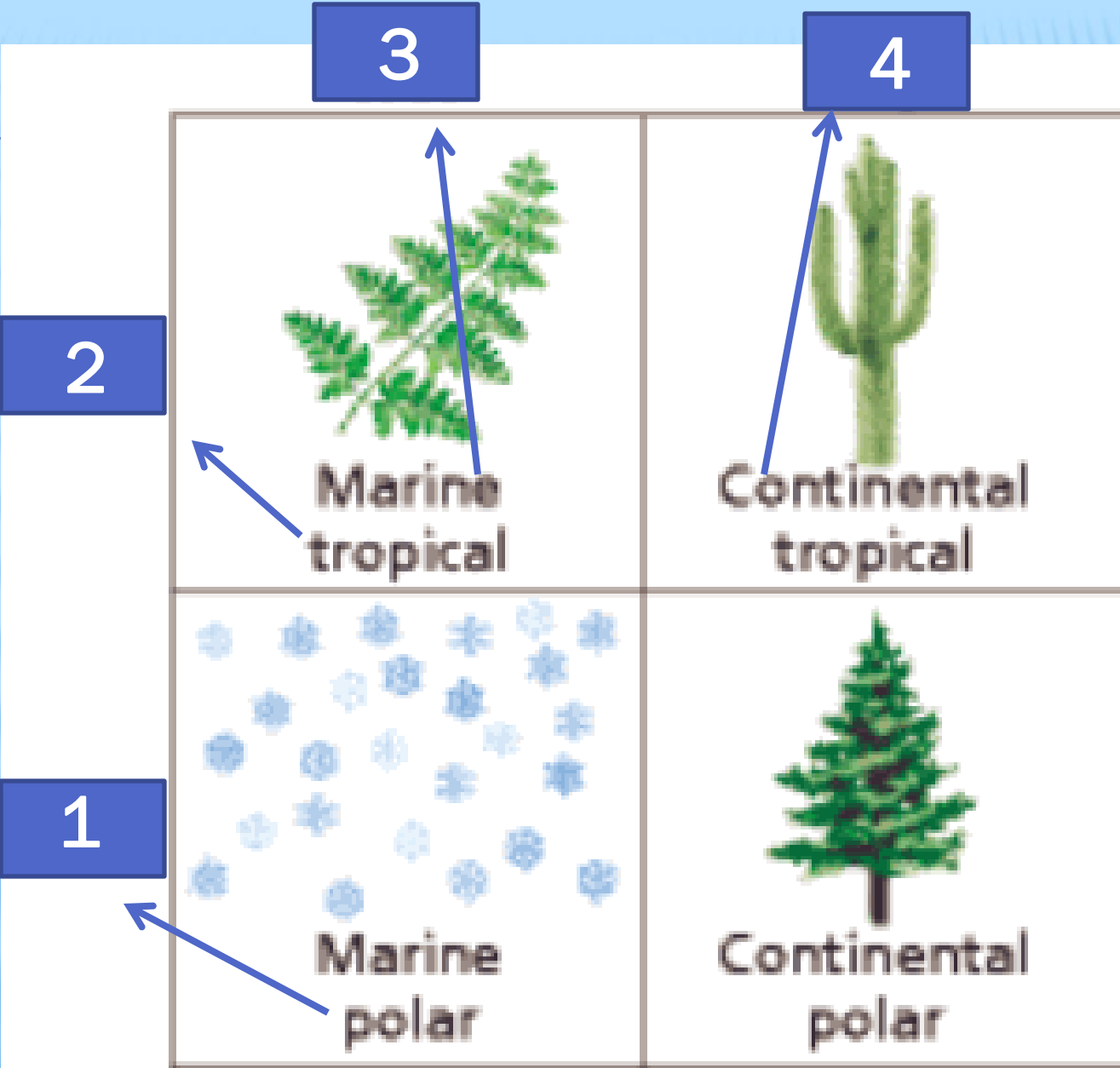
# WHAT DOES THE WORD MARITIME MEAN WHEN CLASSIFYING AIR MASSES?



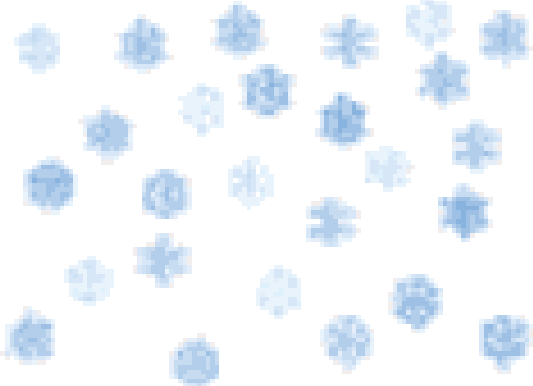

- × Humid/Wet; formed over an ocean

**A \_\_\_\_\_ FRONT OCCURS WHEN A FAST-MOVING COLD AIR MASS OVERTAKES A WARM AIR MASS.**

× Cold Front





	Wet	Dry
Warm	 <p>Marine tropical</p>	 <p>Continental tropical</p>
Cool	 <p>Marine polar</p>	 <p>Continental polar</p>

# WHICH INVOLVES MORE ABRUPT AND SEVERE WEATHER? A COLD FRONT OR WARM FRONT?

× Cold Front

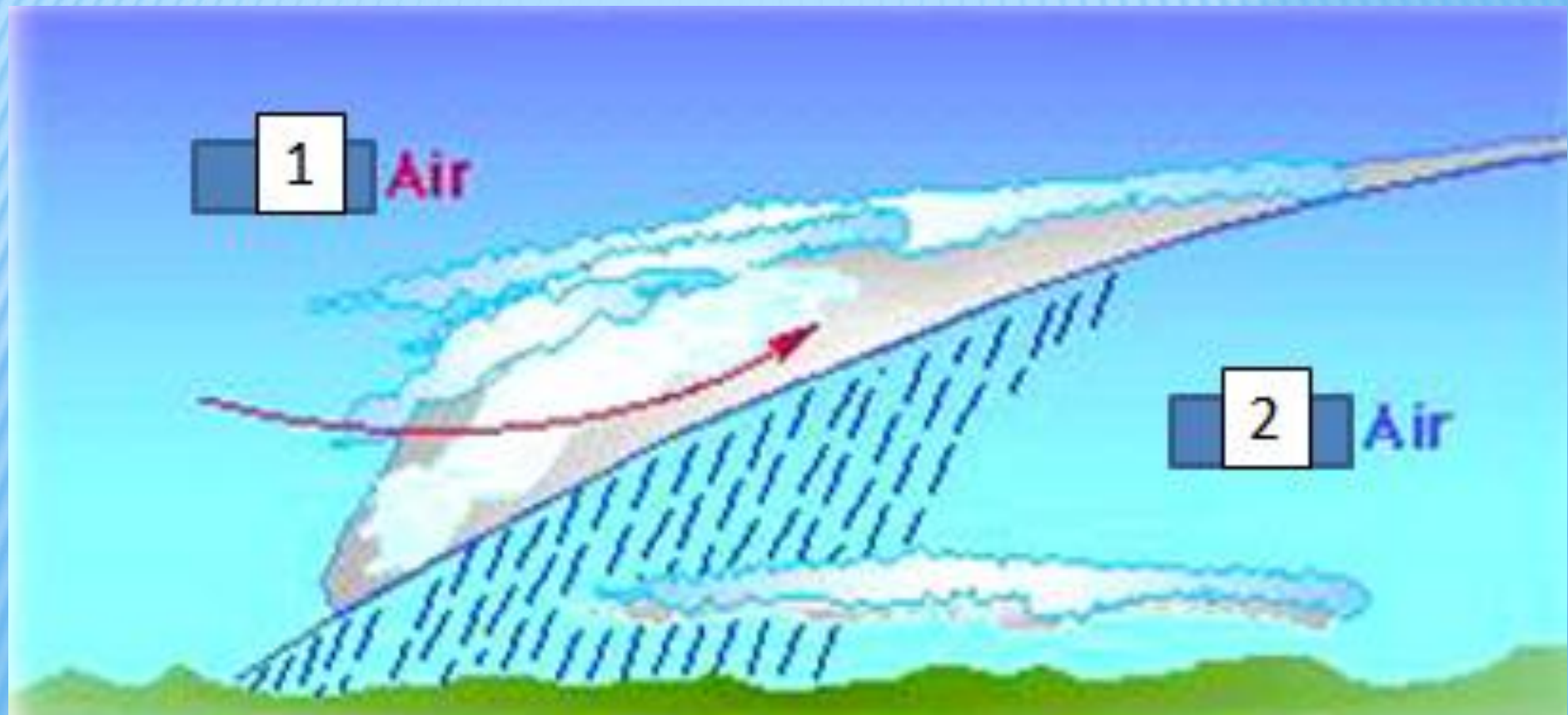


1: WARM AIR

2: COLD AIR

1 Air

2 Air



# WHAT DOES POLAR MEAN WHEN CLASSIFYING AIR MASSES?

× Cold Air



# LABEL THE 6 AIR MASSES BELOW:

## North American Air Masses

Maritime  
Polar

Continental  
Polar

Maritime  
Polar

Pacific  
Ocean

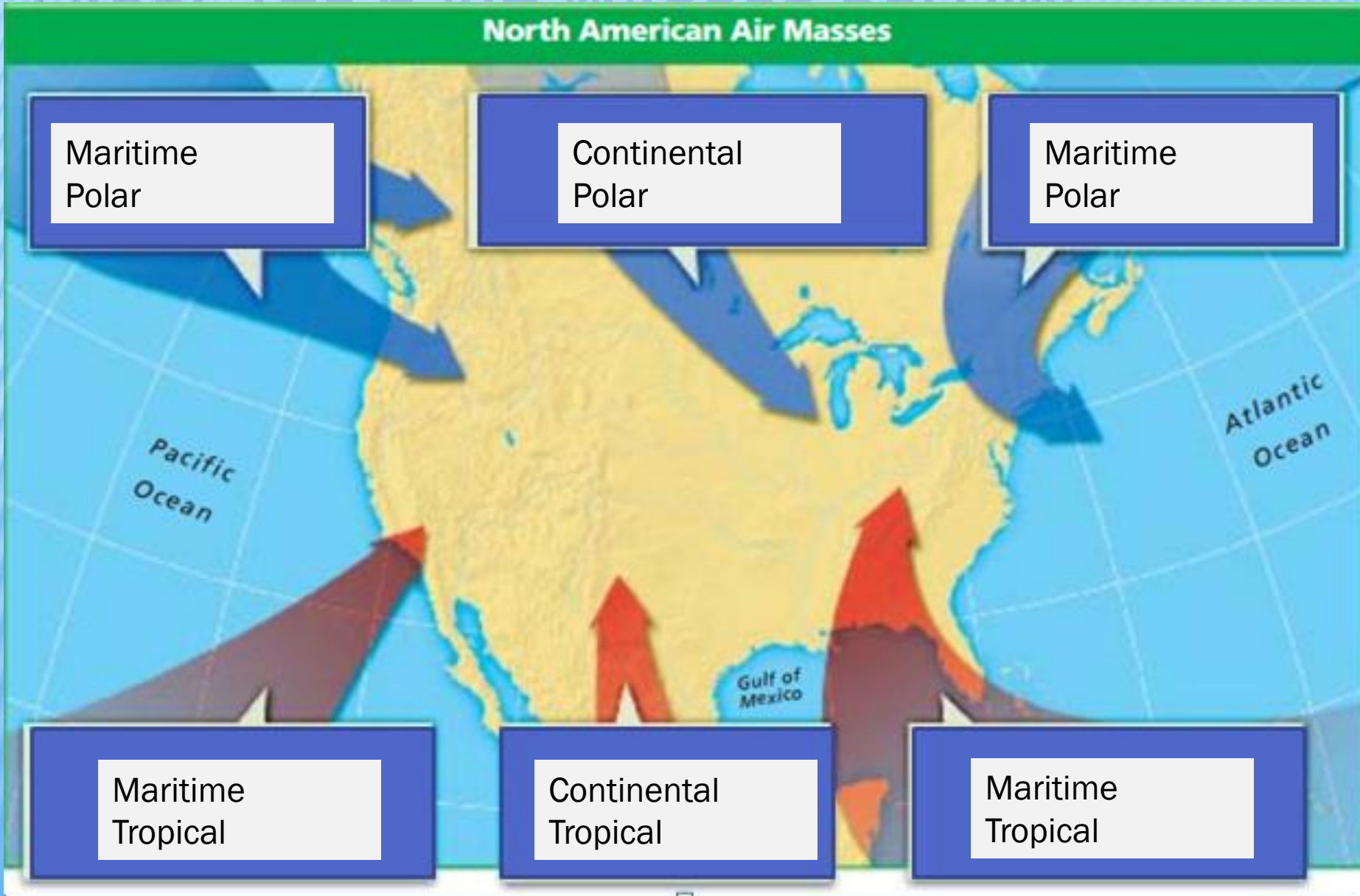
Atlantic  
Ocean

Gulf of  
Mexico

Maritime  
Tropical

Continental  
Tropical

Maritime  
Tropical

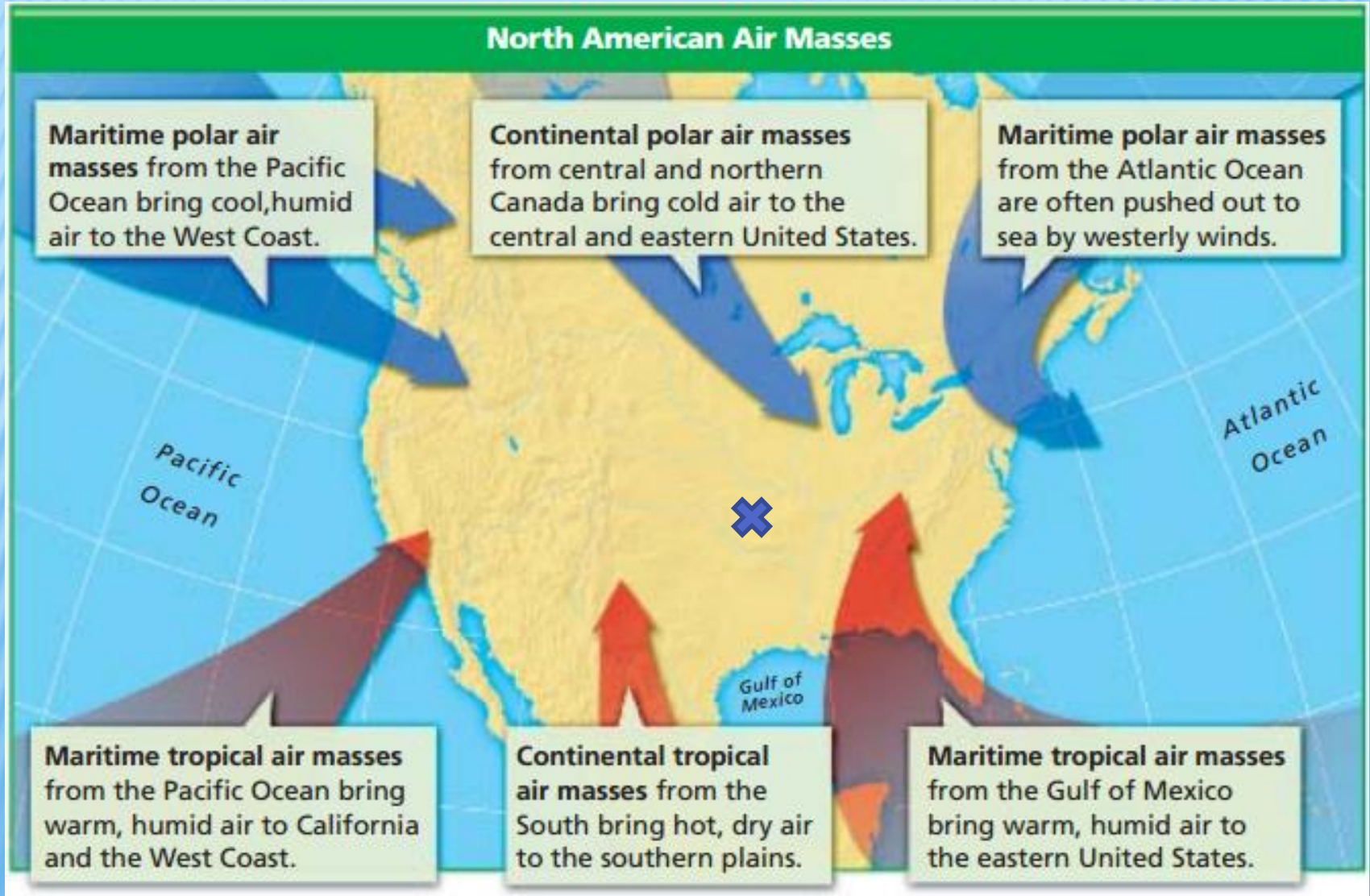


# WHAT IS THE WEATHER LIKE DURING A HIGH PRESSURE SYSTEM?

- × Clear and Sunny

# WHICH AIR MASS BRINGS US WARM HUMID AIR?

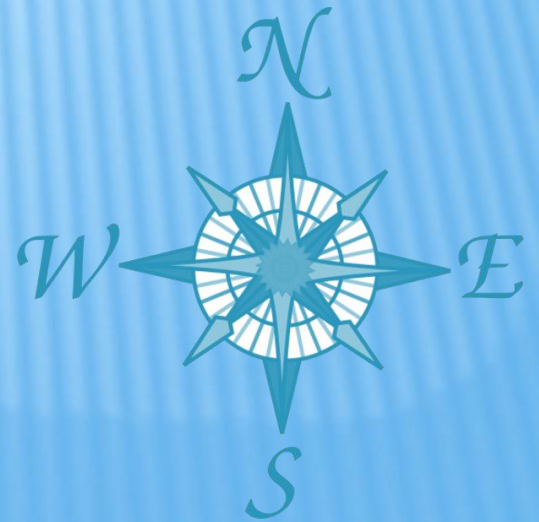
- ✘ Maritime Tropical from the Gulf of Mexico





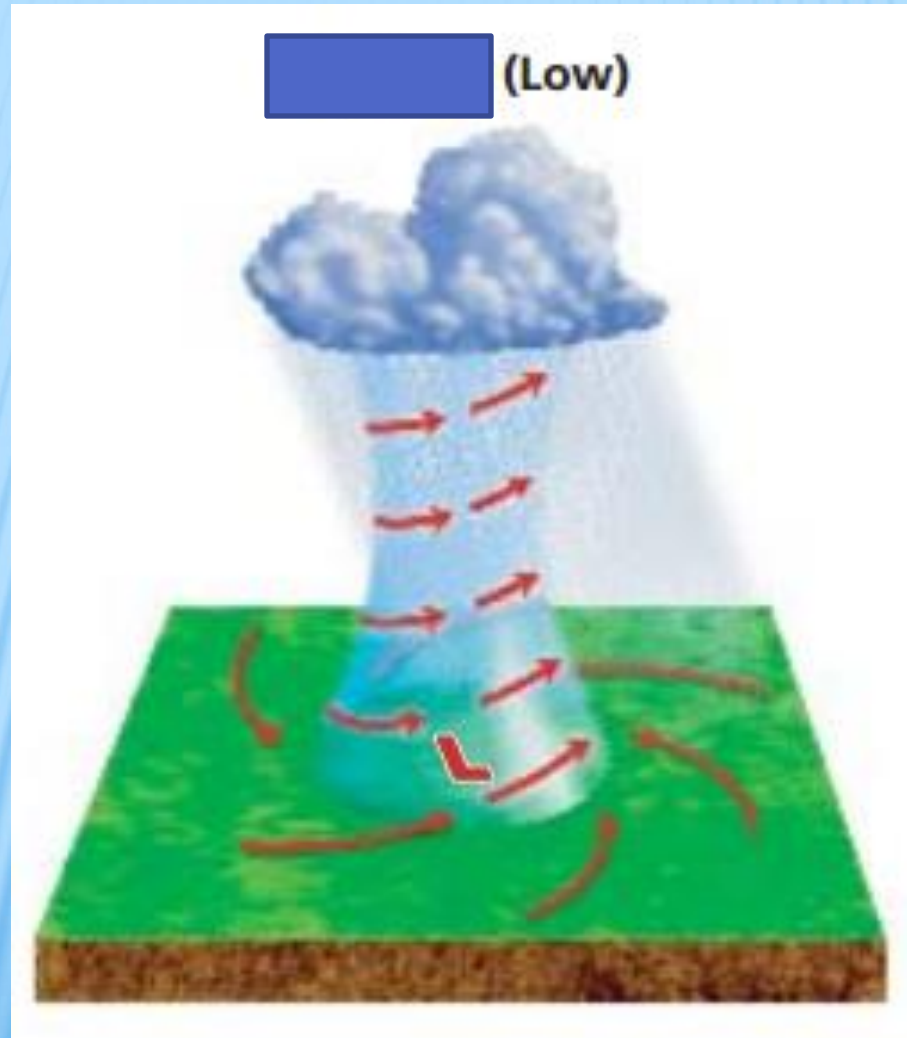
# THE PREVAILING WESTERLIES AND JET STREAMS MOVE AIR MASSES IN WHICH DIRECTION?

- ✘ From the West towards the East.



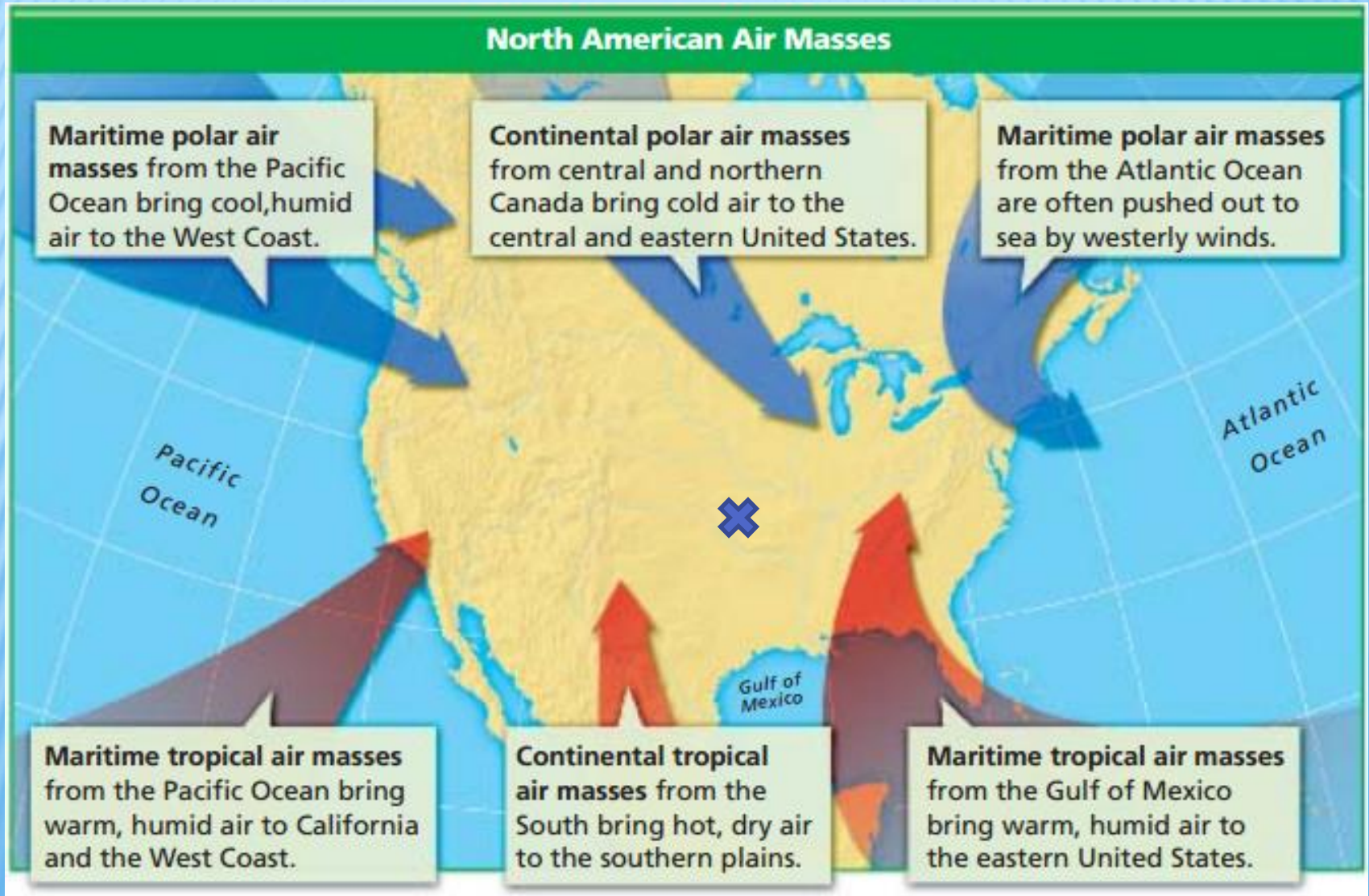
# WHAT IS THIS A PICTURE OF?

× A Cyclone



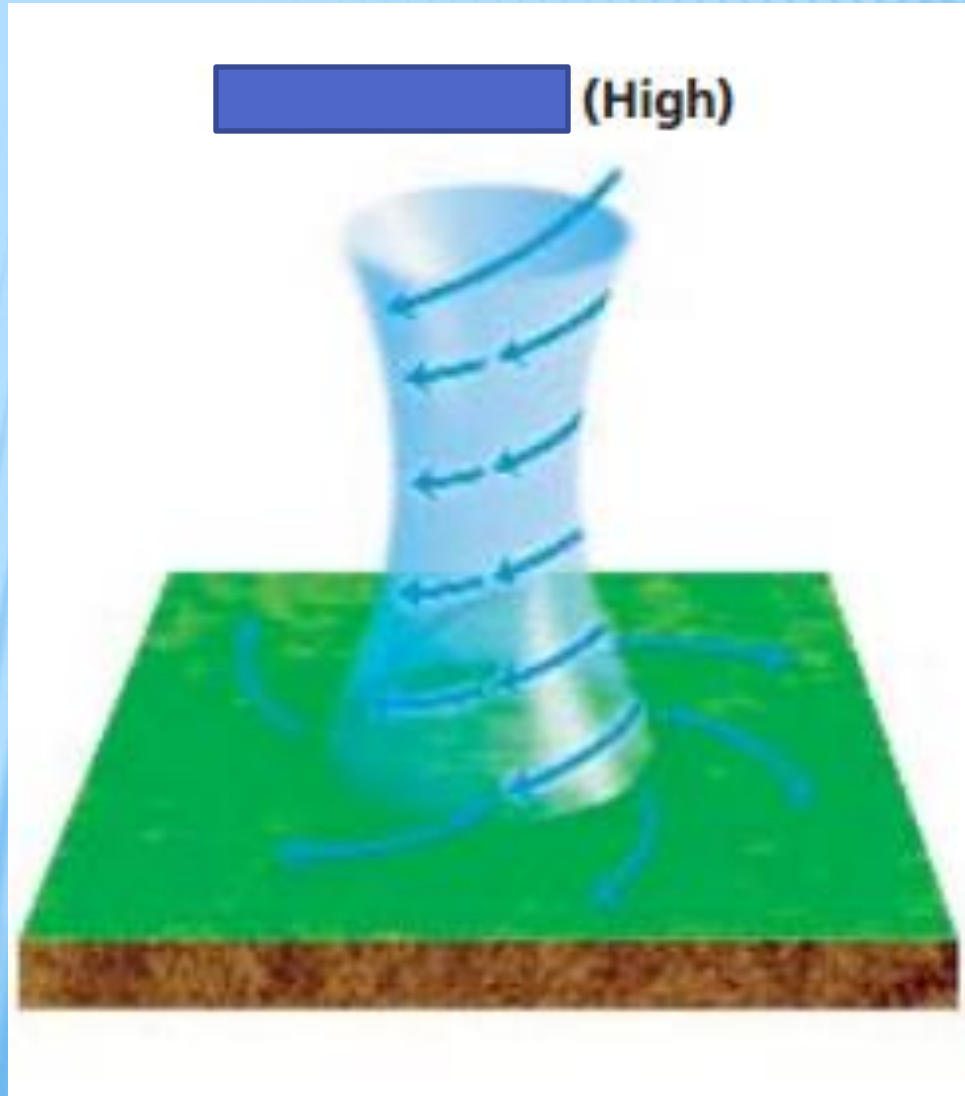
# WHICH AIR MASS BRINGS US COLD DRY AIR?

## ✘ Continental Polar from Canada



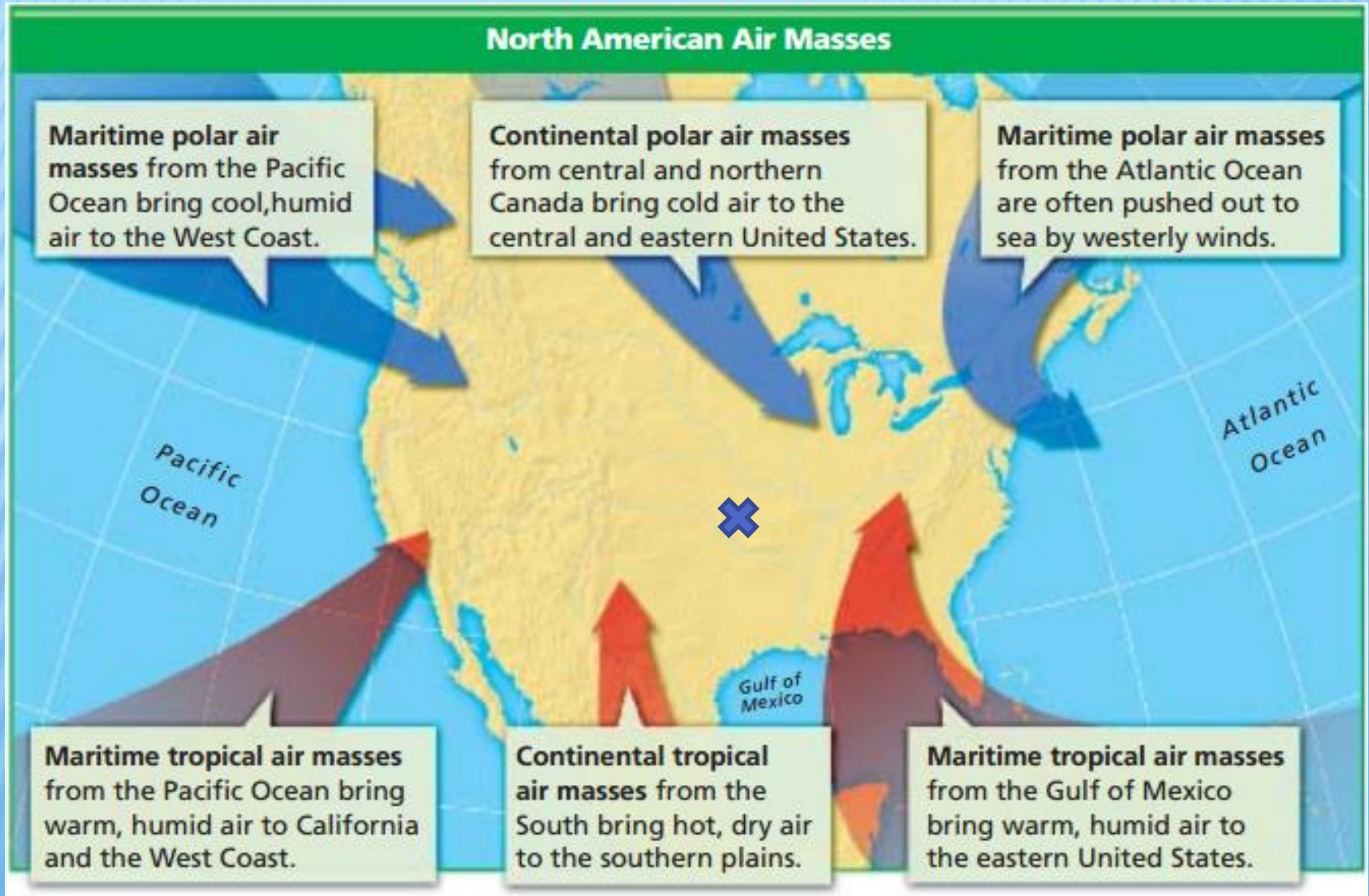
# WHAT IS THIS A PICTURE OF?

× An Anticyclone



# WHICH AIR MASS BRINGS US WARM DRY AIR?

## ✘ Continental Tropical from Mexico



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# WHAT DOES THE WORD TROPICAL MEAN WHEN CLASSIFYING AIR MASSES?

- × Warm Air