

## 1 Air Masses

- List the characteristics and source regions of the air masses that influence North America.

An air mass is an immense body of air, typically 1600 kilometers (1000 miles) or more wide and perhaps several kilometers thick, that is characterized by its temperature and moisture content. The area where an air mass acquires its characteristic properties is called its source region. An air mass moving from its source region may affect a large portion of a continent.

Air masses are classified according to their source region (Figure 1). Polar (P) air masses originate in high latitudes and are composed of cool or cold air, whereas tropical (T) air masses originate in low latitudes and are warm by comparison. If its source region is over land, an air mass tends to be dry and is referred to as being continental (c). If an air mass forms over the ocean, it is more humid and is classified as maritime (m). Using this classification, four basic types of air masses emerge: continental polar (cP), continental tropical (cT), maritime polar (mP), and maritime tropical (mT).

► Figure 1 Source regions for air masses that influence North America.



### ACTIVITY 1 Air Masses

Refer to Figure 1 to answer the following questions.

- What temperature—warm, cool, hot, or cold—and what moisture conditions—dry or humid—are associated with the four basic types of air masses?

cP: COLD and DRY

mP: COOL and HUMID

cT: HOT and DRY

mT: WARM and HUMID

- Which two air masses have the greatest impact on the Pacific coast of North America?

CONTINENTAL POLAR and MARITIME POLAR

- The southwestern United States and northwestern Mexico is the source region for what type of air mass?

CONTINENTAL TROPICAL

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