AIM What is an air mass?

What will the weather be tomorrow? Is rain on the way? Will sunny weather be moving in?

Weather moves from place to place. But where does it come from? Where does weather start?

Most weather comes from air masses. An air mass is a huge body of air. It covers a very large area. Places within this area have about the same temperature and humidity.

An air mass starts over the ocean or over a large body of land. The air that makes up an air mass stalls over the water or land. It stands still for several days or weeks. During this time, the land or water gives the air its temperature and humidity. The air mass then moves on.

The humidity of air masses depends on where they form.

- Air masses that form over the ocean are called maritime [MA rih time]. Maritime air is moist.
- Air masses that form over the land are called *continental*. Continental air is *dry*.

The temperature of air masses also depends on where they form.

- Air masses that form near the poles are called *polar*. Polar air is *cold*.
- Air masses that form near the tropics are called tropical. Tropical air is warm.

The name of an air mass has two parts:

- (a) The first part tells us that it is either maritime or continental.
- (b) The second part tells us that it is either tropical or polar.

For example, the name continental tropical tells us that the air mass formed over tropical land. The air would be dry and warm.

STUDYING AIR MASSES OVER NORTH AMERICA

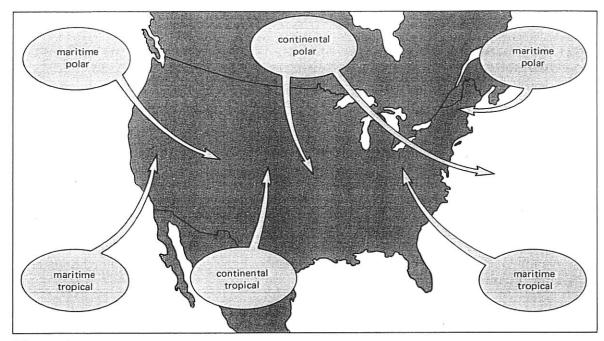


Figure A

The map (Figure A) shows the air masses that bring weather to North America. Study the map carefully. Then answer these questions.

1.	Name the four kinds of air masses this map shows.			

2.	Which of these air masses move in from:			
	a)	the north?		
	b)	the south?		
	c)	the land?		
	d)	the ocean?		
3.	Wh	ich air mass brings		
	a)	cold and dry air?		
	b)	warm and dry air?		
4.	Wh	aich air masses bring		
	a)	cold and moist air?		
	b)	warm and moist air?		

COMPLETING SENTENCES

Complete the sentences with the choices below.

	very large area humidity warm land	moist air masses continental temperature	water cold the same maritime			
1.	Most weather comes from					
2.	An air mass covers a	·				
3.	The temperature and humidity in an air mass stay about					
4.	An air mass starts over a large body of or or					
5.	An air mass gets itsland it came from.					
6.	The word that means "water" is					
7.	The word that means "land" is					
8.	The temperature of air that comes from the tropics is very					
9.	The temperature of air that comes from the poles is very					
10.	Air that comes from over the ocean is very					
	MATCHING Match the air masses on the left with the weather on the right.					
1.	maritime polar	a) dry and warm				
2.	continental tropical	b) moist and warm	(an			
3.	continental polar	c) moist and cold				
4.	maritime tropical	d) dry and cold				