

Weather Data Collection

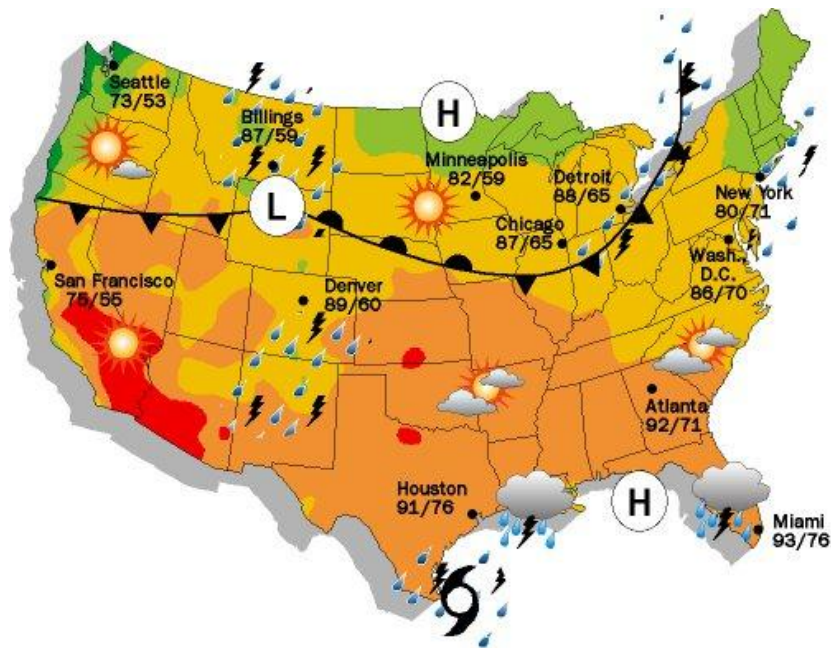
Think About It!

How do you think a meteorologist find out about the weather?

How do you think a meteorologist predicts the weather?

Weather Maps!

Look at the following weather map. What information does it tell you?



What information is provided on weather maps to help predict weather patterns?

High and Low Pressure

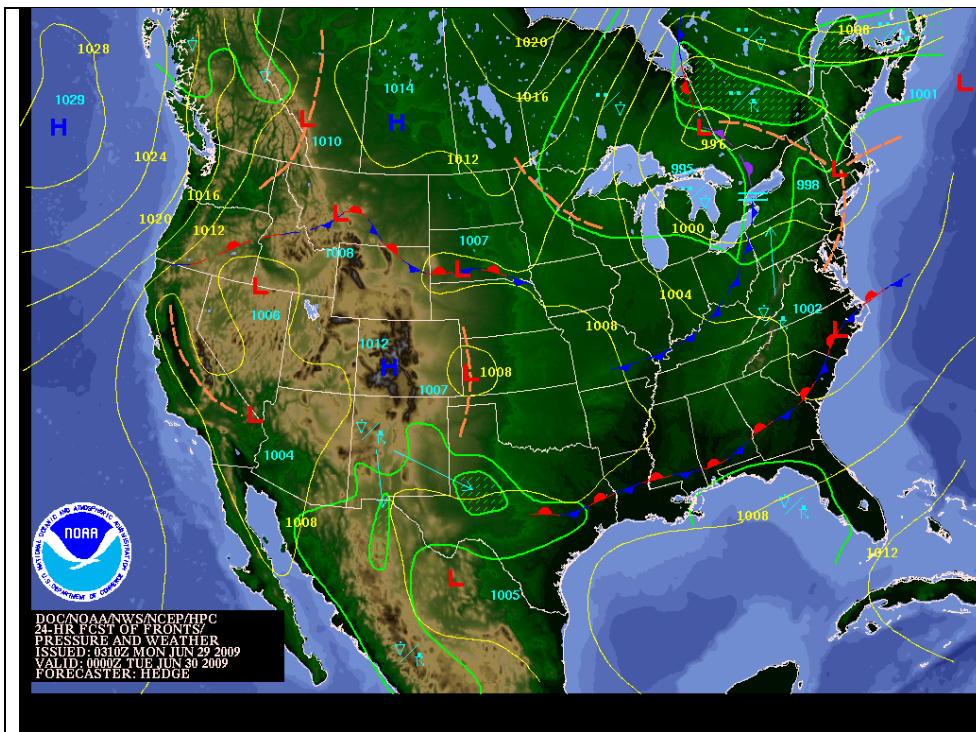
What are isobars?

How do isobars help meteorologists predict weather?

What does the **H** stand for?

What does the **L** stand for?

Look at the following weather map and answer the following questions:



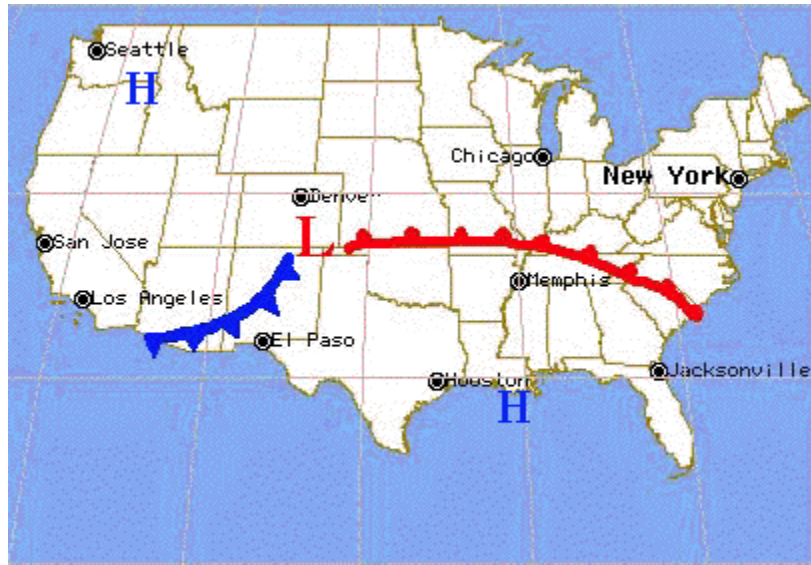
Circle the areas of High Pressure in Blue.

Circle the areas of Low Pressure in Red.

What does the isobar that is running through South Carolina represent?

Movement of Air Masses and Fronts

Look at the following picture and answer the following questions.



Circle the cold front in blue.

In which direction is the cold front moving?

Circle the warm front in red.

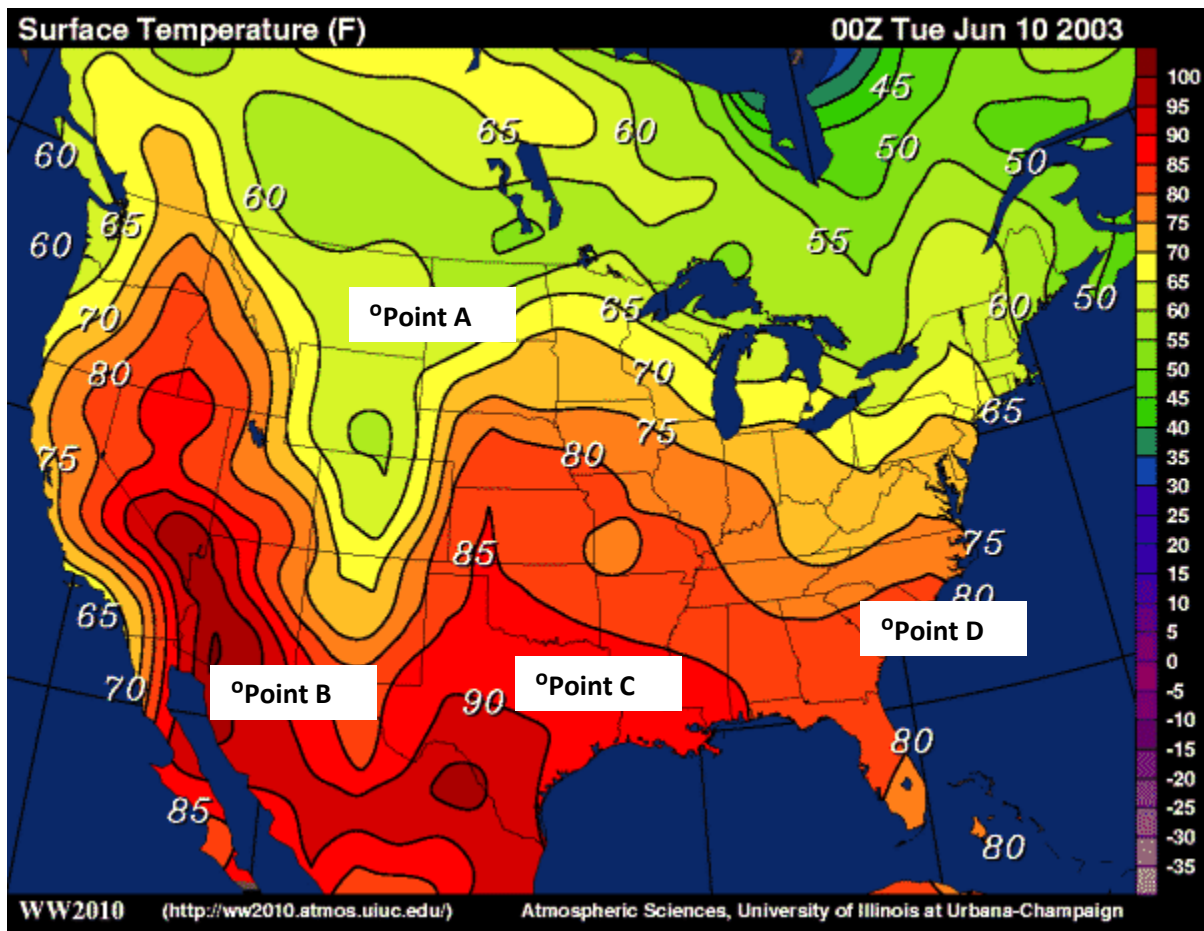
In which direction is the warm front moving?

Temperature Ranges

What are isotherms?

How do isotherms help meteorologists predict weather?

Look at the map below and answer the questions:



What is the temperature at the following points:

Point A: -----

Point B: -----

Point C: -----

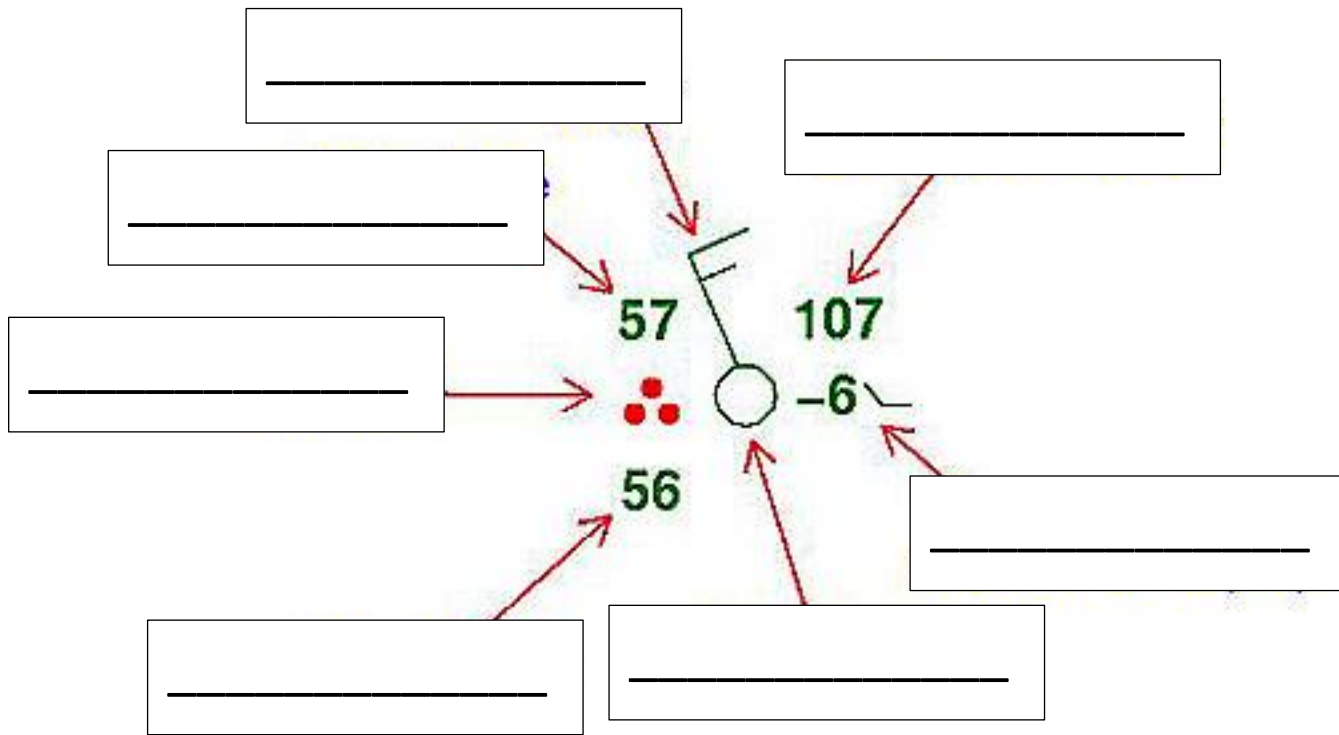
Point D: -----

Station Models

What is a station model?

How do station models help meteorologists predict weather?

Using the information on the website, fill in the missing terms.



Satellites:

What are satellites used for?

What can be observed using satellite images?

Go to <http://www.weather.gov/satellite>. Look at the three different types of satellites and predict what the weather will be for South Carolina.

Choose another part of the country and using the three satellites, predict what their weather may be.

Radar:

What is radar used for?

What can be observed using radar images?

Go to <http://www.weather.gov/Radar>. What observation can you make about weather that is occurring in the U.S.?

Predict what the weather will be for South Carolina.

Great Job!!!



Love,

Ranger Rita and the Cute Quokkas