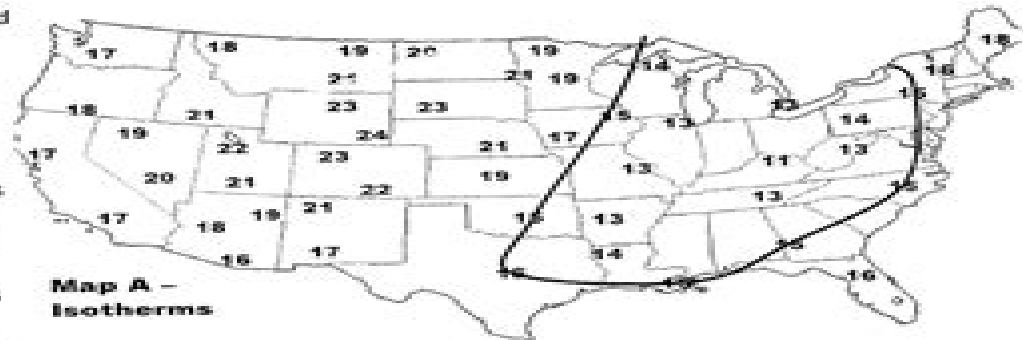


Isotherms, Isobars and Wind Lab

Name: _____ Partners: _____ Block: _____

Objective: To identify warm and cold air masses, and areas of high and low pressure using synoptic weather data.

Map A: Study the solid line that has been drawn through all of the weather stations that have a temperature of 15°C . Notice that the solid line sometimes goes between values of 14 and 16°C , this is because we must estimate a temperature of 15°C to exist between them (recall the rules for drawing isolines). On Map A, draw isotherms on a 2°C interval (15 has already been done for you). On this map, isotherms will form closed loops as there are two different temperature air masses present within the U.S. at this point in time.



1. Which isotherms are the only isotherms that form closed loops on this map?
2. What is the lowest temperature found on the map, and in which portion of the country is this?
3. What is the highest temperature found on the map, and in which portion of the country is this?

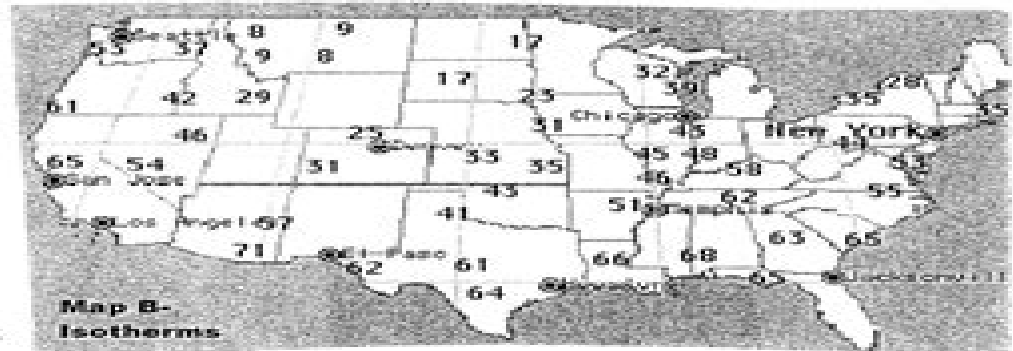
These closed loops allow us to identify where an air mass is located.

4. Where is the center of the cold air mass (state)? _____
5. Where is the center of the warm air mass? _____

Map B: Draw in the 10, 20, 30, 40, 50, 60 and 70 degree isotherms. Label each isotherm when you are finished.

6. Name a state over which a cold air mass is located.
7. Name a state over which a warm air mass is located.

Air masses are also categorized as dry or humid. Humid air develops over the ocean waters as water vapor evaporates from the surface. Dry air masses come from large inland areas. For example, an air mass over the Gulf of Mexico would be warm and humid.



8. How would you describe the air mass moving into the United States from Canada?
9. How would you describe the air mass moving into the United States from the south east?

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Thirumalaisamy P.
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