

Weather Map Lab (2011)

Full Name: _____

Directions: All work must be done in PENCIL ONLY!

1) Draw isolines on both maps. For the temperature map use a 10°C interval. For the air pressure map use a 4mb interval.

2) On the pressure map place an 'H' at the center of the high pressure system and an 'L' at the center of the low pressure system.

3) Using a colored pencil *lightly* draw arrows around the *high* and the *low* to show how wind circulates around these systems.

3) What is the pressure gradient from location 'A' to location 'D' (must give units)

4) What is the temperature gradient from location 'A' to location 'B' (must give units)

5) ***EXPLAIN*** why the isotherms seem to bend south in the middle of the country. HINT: This map represents temperatures on a day in February.

6) What is the temperature (in °F) at location C _____

7) What is the pressure in inches (Hg) at location E _____

8) If the low pressure center on the Air Pressure map follows a typical storm track, towards which location (which letter) will it travel? _____

9) Which location (letter) would probably have the lowest relative humidity? _____

10) Which location (letter) has an air pressure of 29.76 inches (Hg)? _____

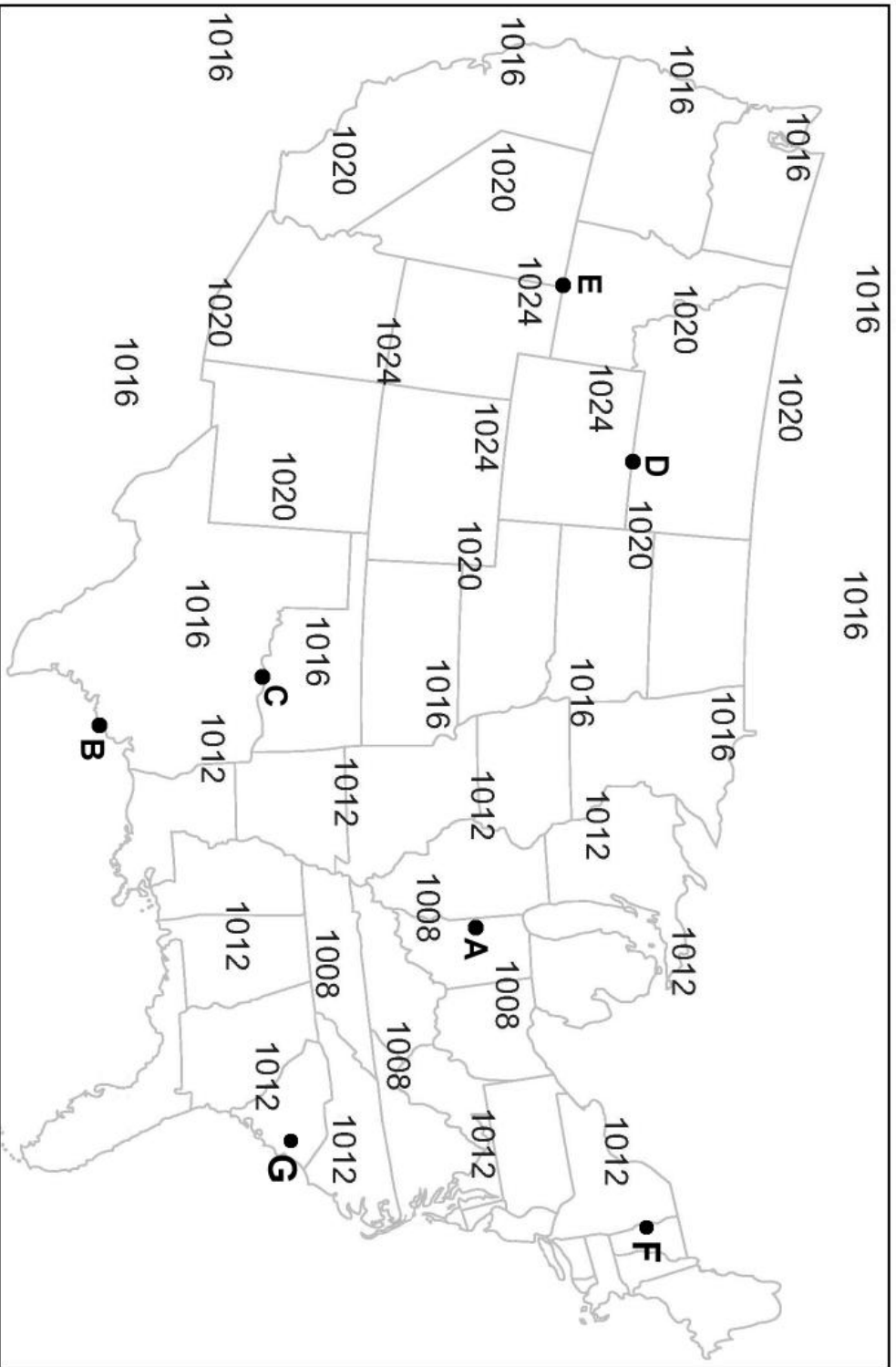
11) What is the probable wind direction at location (letter) D? _____

12) At which location (letter) is it most likely raining? _____

13) The wind velocity at city G is 63 mi/hr from the SE. In the box draw the station model showing the wind direction & speed.



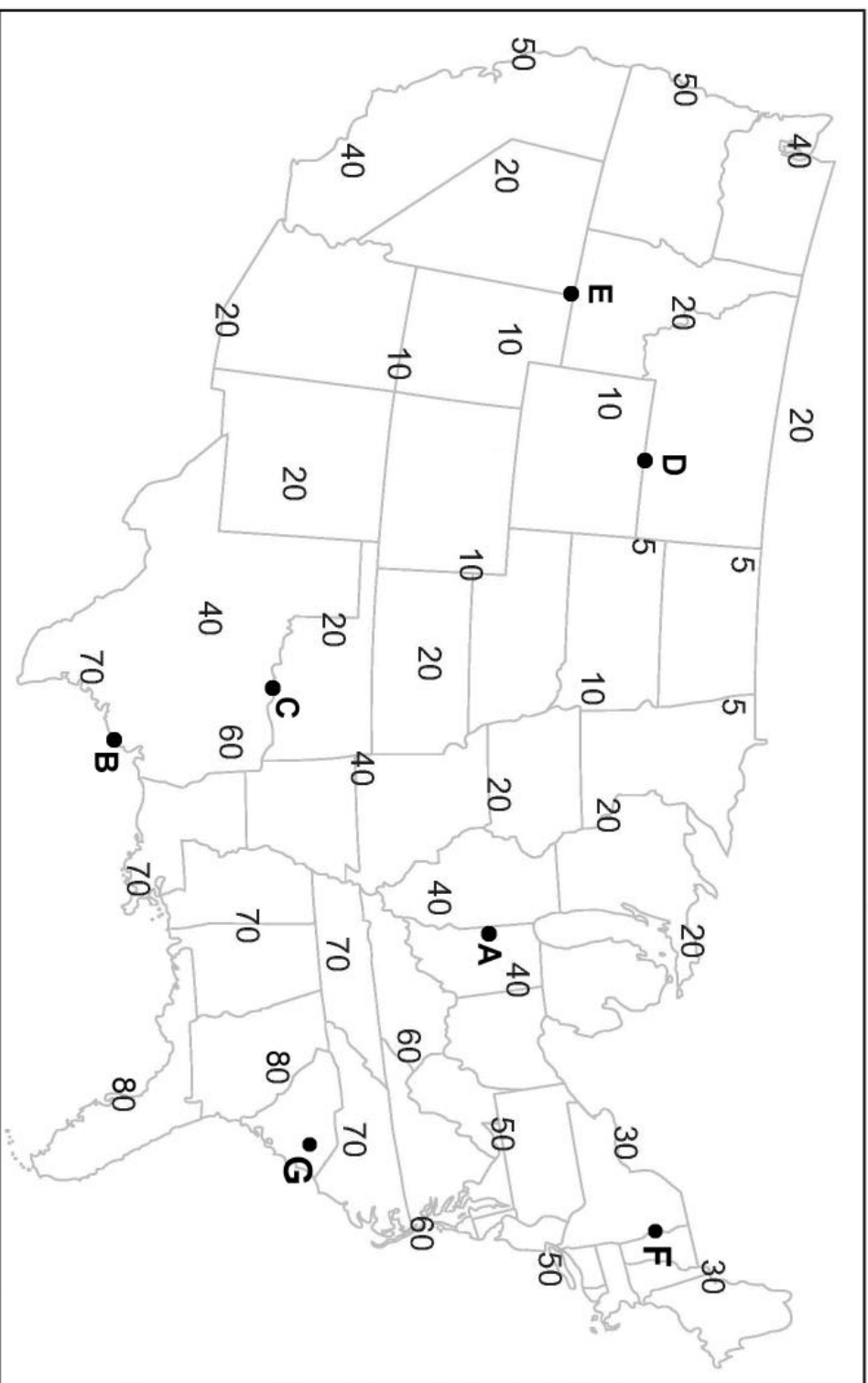
Surface Air Pressure (mb)



KILOMETERS

All isobars must stay within box

Surface Temperature (°C)



All isolines must stay within black box

