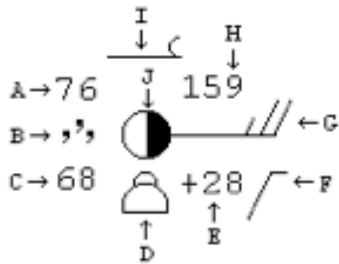Name: _____   Period: _____

13.3 Review: Weather forecasts
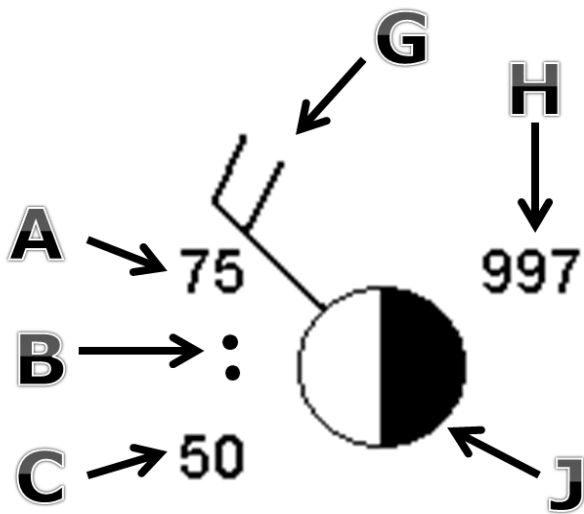
1. Use the weather station symbols and variables below to describe what points A, B, C, G, H, J mean.

Weather Station Model Demo

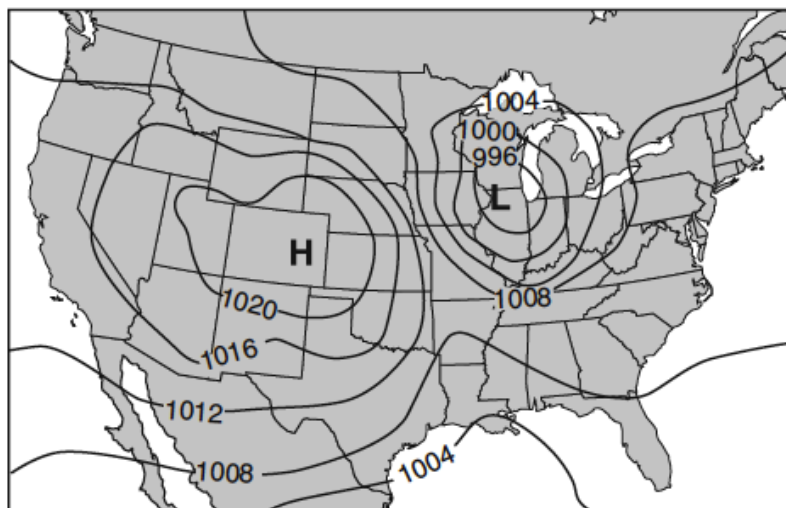|	
A → 76	
B → ,',	
c → 68	+28 ← F

A - Temperature
B - Present Weather
C - Dew Point
D - Low Cloud Type
E - Pressure Change

F - Pressure Tendency
G - Wind Speed & Direction
H - Barometric Pressure
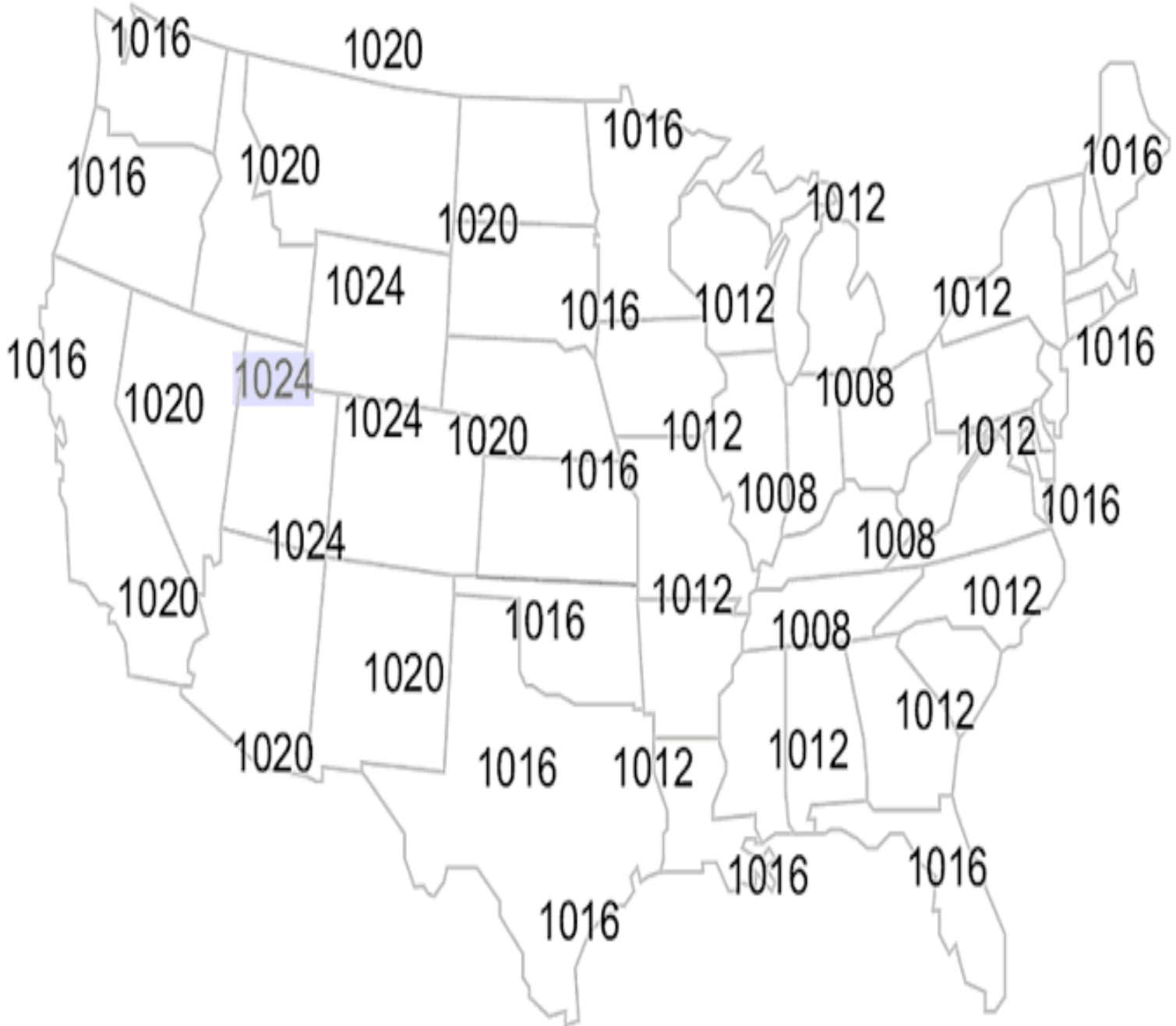I - High Cloud Type
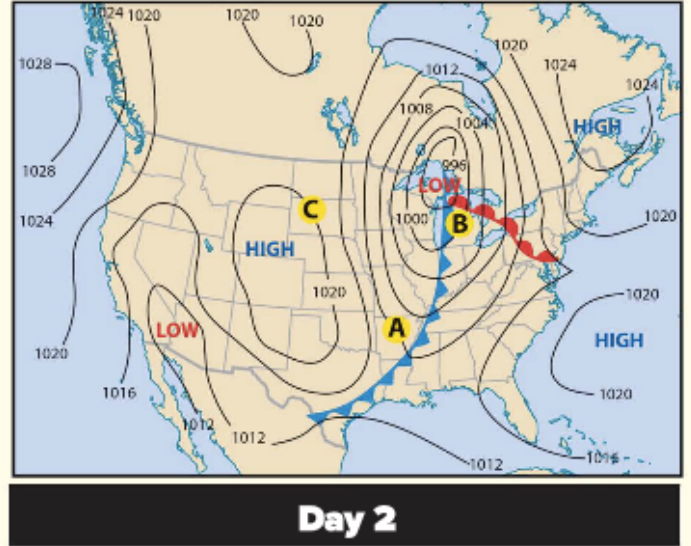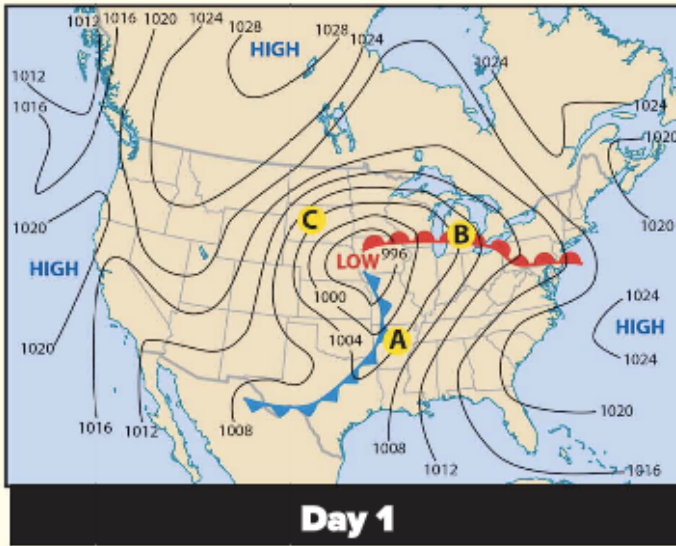J - Cloud Coverage

A → 75
B → :
C → 50

G
H
997
J

A _____

B _____

C _____

G _____

H _____

J _____

2. What state will be experiencing clear skies and fair weather?

   _____

1004
1000
996
L

H

1020
1016
1012
1008
1004
1008

3. **Please use the atmospheric pressure data to create an accurate isobar of the United States. Reminder: isobars are lines that connect all places on a map where pressure has the same value.**

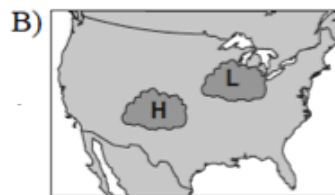   **Make a large H with an area of <u>High Pressure</u> and L for an area of <u>Low Pressure.</u>**

1016   1020

1016   1020
1016

                    1020
         1024
                         1016   1012
1016
     1020 1024
              1024 1020
                        1016
         1024
    1020
                   1016
              1020

       1020   1016   1012

              1016

1016
                         1012

                    1008
              1012
                  1008
                         1008

              1012
                  1008

1012   1012

1016   1012   1012
                        1016
                             1012

                        1012
                   1012

          1016   1016

1016

Cold front

Warm front

4. Fill in the table below based on the weather maps above:

	Day 1 A	Day 2 A	Day 1 B	Day 2 B	Day 1 C	Day 2 C
Pressure (exact number)						
Quality of Temperature						
Precipitation (likely/not likely)						

5. The low-pressure system produced several tornadoes. Which location did they occur closest to? Explain.

6. If you are watching the weather channel and are told the barometric pressure is dropping, what kind of weather would you predict will occur?
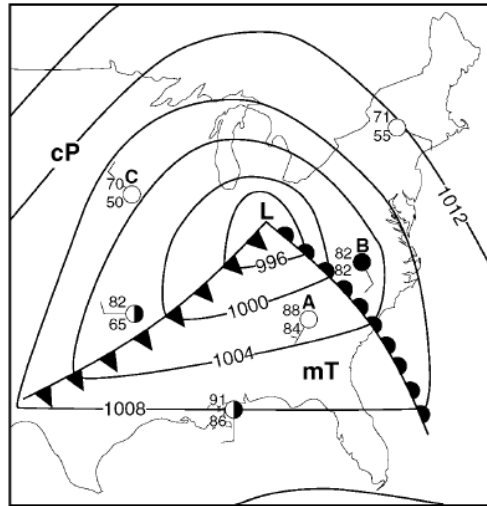
7. Which map shows the most likely location of clouds associated with these pressure centers?
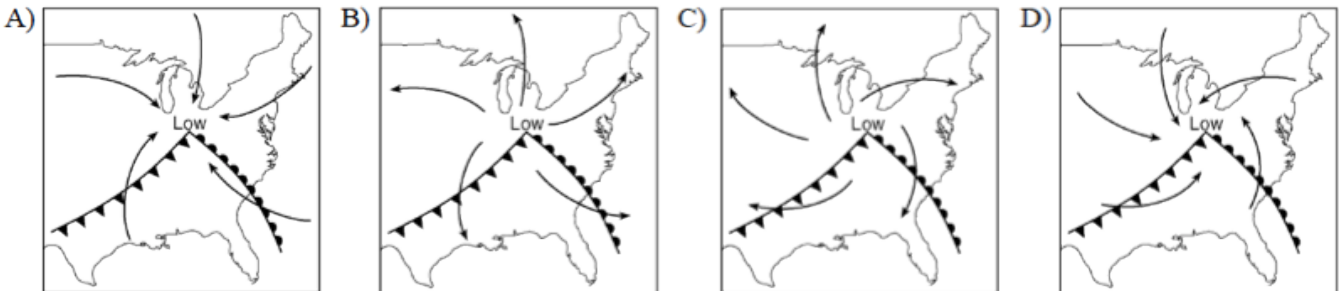
8. The arrows on which map show the most likely path in which these two pressure centers will move over the next few days?
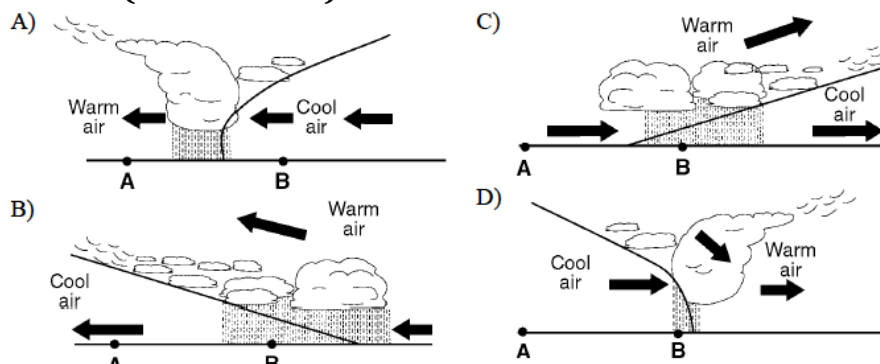
A)

B)

C)

D)

Base your answers to questions 9 through 11 on the weather map below. The map shows a low-pressure system and some atmospheric conditions at weather stations A, B, & C.
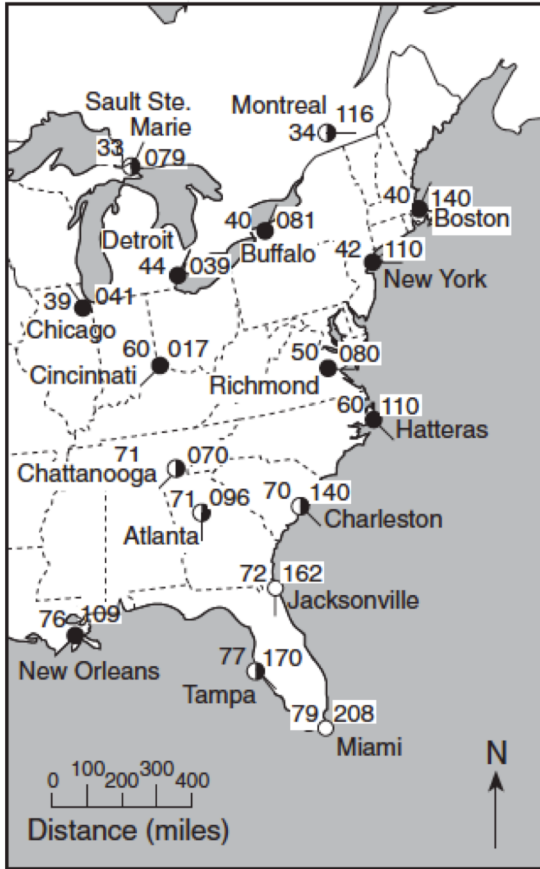

9. The arrows on which map best represent the direction of surface winds associated with this low-pressure system?

A)

B)

C)

D)

10. Which cross section best represents the air masses, air movement, clouds, and precipitation occurring behind and ahead of the warm front located between stations A and B (warm front)?

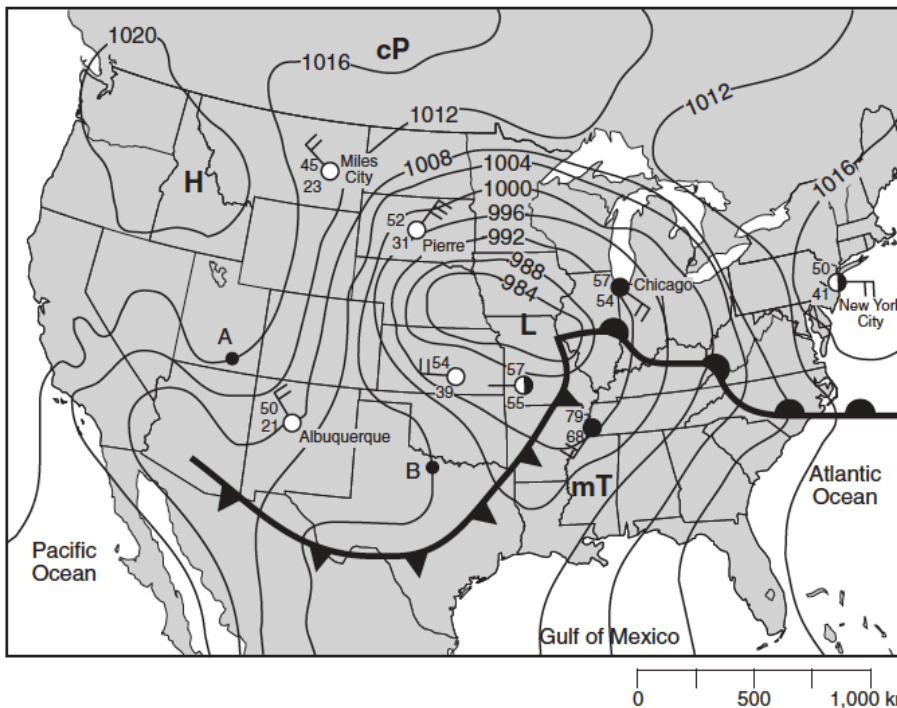**The weather map below shows partial weather-station data for several cities in eastern North America.**

11. Which cities have cloudy conditions (list 9)?

- •
- •
- •
- •
- •
- •
- •
- •
- •

12. Which city has the warmest temperature?

_____

The weather map below shows partial weather-station data for several cities in eastern North America.

13. What direction is the wind blowing from in New York City?

_____

14. What direction is the wind blowing from in Chicago?

_____

15. What direction is the direction blowing from in Albuquerque?

_____