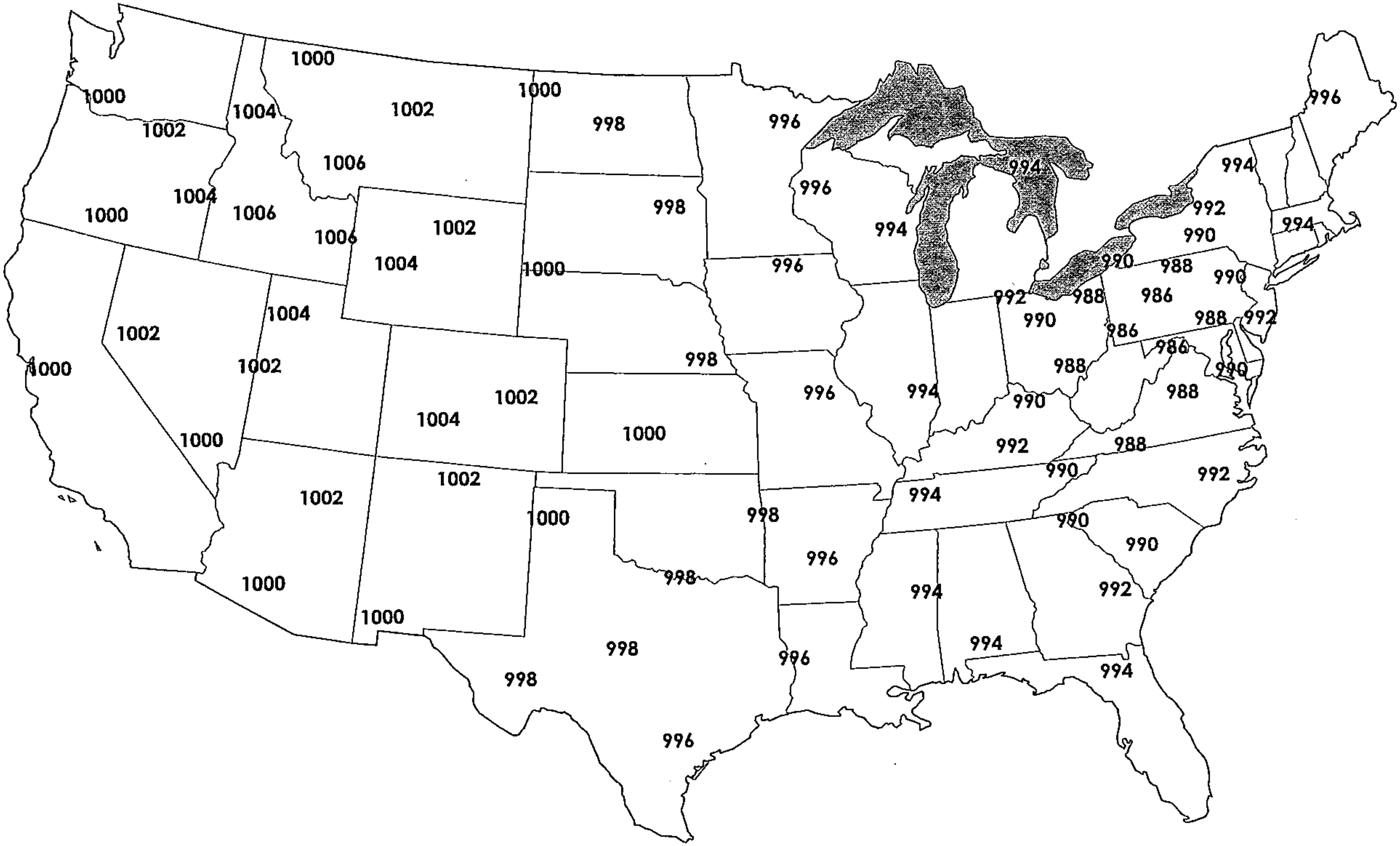
ISOBARS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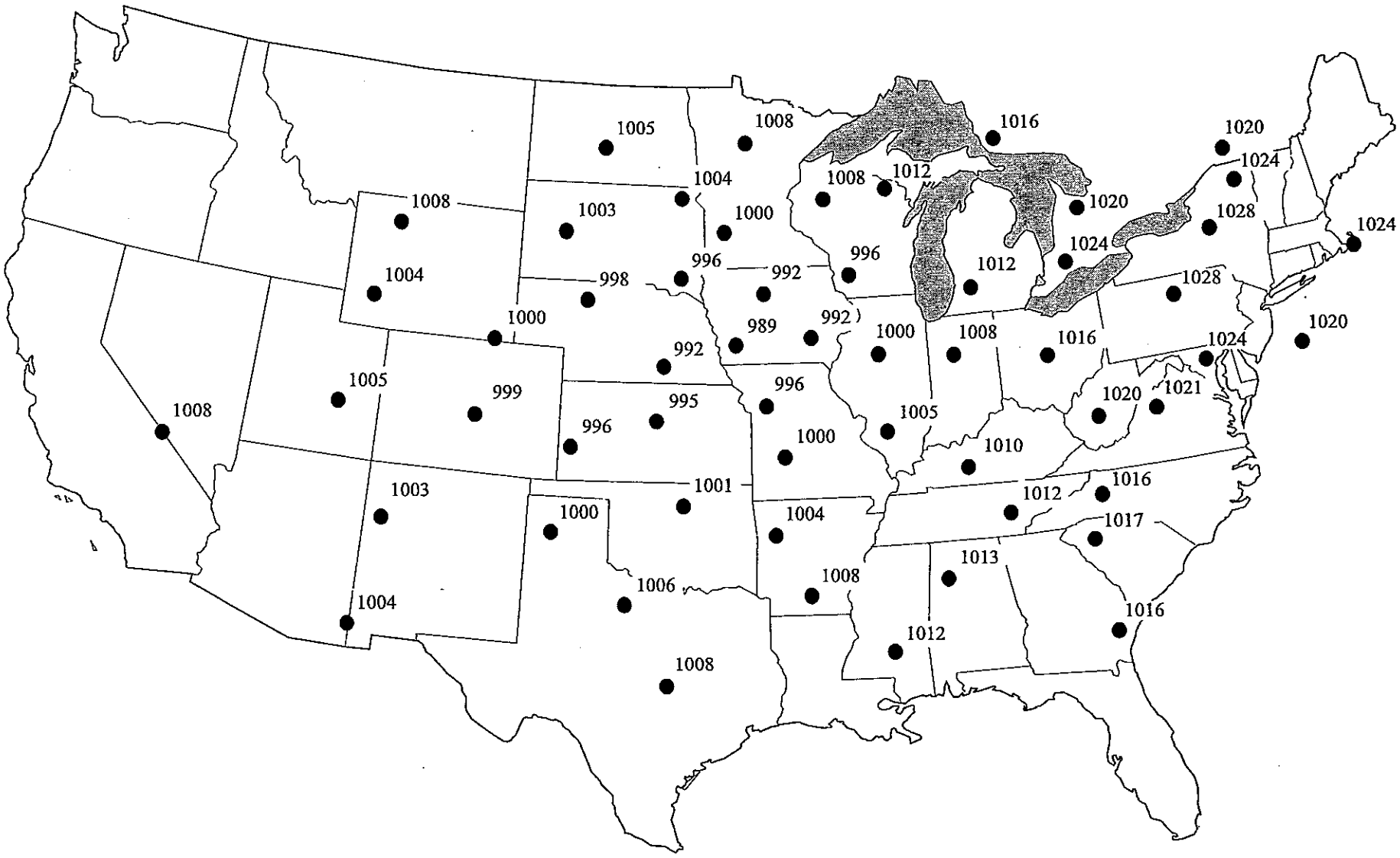
Pt. 1



Isobar Map Pt. 2

Title: Isobar Map Challenge

Map #1 drawing instructions:

1. Draw in the following isobars using a smooth curved line. Please use PENCIL

-986. 988, 990, 994, 996, 998, 1000, 102, 1004, 1006, mb

2. Locate the area of highest pressure on the map. Using a blue colored pencil, write in the letter "H" to represent the center of high pressure. Using the same colored pencil, draw arrows around the "H" clockwise to show how winds travel around high pressure systems.

3. Locate the area of lowest pressure on the map. Using a red colored pencil, write in the letter "L" to represent the center of low pressure. Using the same colored pencil, draw arrows around the "L" counter clockwise to show how winds travel around low pressure systems.

4. Using an orange colored pencil, shade in the area of the highest wind speed.

5. Using a purple colored pencil, shade in the area of the lowest wind speed.

Map #1 Analysis Questions:

1. Look at the area that you shaded orange. How can you tell these are where the highest wind speeds are located?

2. Look at the area that you shaded purple. How can you tell these are where the lowest wind speeds are located?

3. Which state(s) are most likely receiving precipitation currently?

4. What geographical direction is the high pressure center most likely traveling?

Map #2 drawing instructions:

1. Find the lowest millibar on the map.
2. Draw a 992 isobar curved line with pencil.
3. Continue drawing isobar lines in increments of 4 mb up to the 1028 mb.
4. Locate the area of highest pressure on the map. Using a blue colored pencil, write in the letter "H" to represent the center of high pressure. Using the same colored pencil, draw arrows around the "H" clockwise to show how winds travel around high pressure systems.
5. Locate the area of lowest pressure on the map. Using a red colored pencil, write in the letter "L" to represent the center of low pressure. Using the same colored pencil, draw arrows around the "L" counter clockwise to show how winds travel around low pressure systems.
6. Using an orange colored pencil, shade in the area of the highest wind speed.
7. Using a purple colored pencil, shade in the area of the lowest wind speed.

Map #2 Analysis Questions:

1. In part of the United States is the high pressure center located?
2. In what part of the United States is the lower pressure center located?
3. On which side of the low pressure center would the winds be the strongest?
   Which state(s) are most likely receiving precipitation currently?
4. What geographical direction is the high pressure center most likely traveling?
5. In the next two days, what should the people of New York expect to happen to the local air pressure?
6. Describe the weather that is approaching the New York area.