

ISOBARS: Mapping Air Pressure and Wind

1. What is the result of differences in air pressure? _____
2. What are isobars? _____
3. Look at the map below, what do the numbers on the map represent? _____
4. **USE A PENCIL!** On the map below: Draw in the following isobars and pressure centers by connecting points of equal pressure:

986mb, 988mb, 990mb, 992mb, 994mb, 996mb, 1000mb, 1002mb, 1004mb, 1006 mb

5. **High Pressure:** Locate the center of highest pressure on the map. Using a **blue** colored pencil, write the letter "**H**" to represent the high pressure center
 - a. Using the same colored pencil, draw arrows around the "H" to show the direction that wind travels around high pressure.
6. **Low Pressure:** Locate the center of lowest pressure on the map. Using a **red** colored pencil, write the letter "**L**" to represent the low pressure center
 - a. Using the same colored pencil, draw arrows around the "L" to show how winds travel around low pressure.
7. Using an **orange** colored pencil, shade in the area of highest wind speed. How can you tell?

8. Using a **purple** colored pencil, shade in the area of lowest wind speed. How can you tell?

9. Which state(s) are most likely receiving precipitation currently? How can you tell?

10. What geographical direction is the high pressure center most likely traveling? (North, South, East or West?) _____

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