

Lesson 4: How Does Pressure Affect Weather?

Activity 4.2

Purpose

The purpose of this activity is to see how pressure relates to weather conditions around the country.

Word Wall Words

Isobar: _____

Millibars: _____

Procedure

1. You will need to assign colors for the pressure in the key. Look at the highest and lowest pressures on the map. Cross out the ranges in the key that are not represented on the map.
2. Next choose a color for each pressure range in the key. It is common to use cool colors such as blue for high pressures and warm colors such as red for low pressure.
3. Shade each pressure recorded on the map the appropriate color.
4. Starting with the highest pressures, add smooth lines to contain regions of similar pressure. Shade the entire area the color for that pressure range.
5. Repeat the process for the next pressure range down. As you add lines and shade regions remember these rules.
 - a. Isobar lines never cross each other.
 - b. Shaded regions that are not next to each other on the key will not touch each other on the map.
 - c. There will never be a place where three or more colors meet each other.
6. When you have completed the map, answer the following questions

Analysis

What date was this data collected? _____

What time was it in Arlington Heights when this data was collected? _____

What was the weather like in Arlington Heights at that time?, How does this compare with the pressure?

Where in the US were there storms at this time? How does this compare with the pressure there?

Your Progress:

- Mastery
- Proficient
- Developing
- Beginning