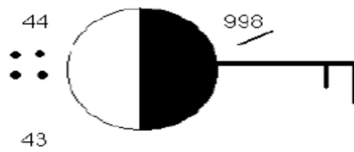


Interpreting Station Models

Study figure A. It is a *simplified* diagram of a typical weather station model used by the National Weather Service to prepare synoptic maps. The positions of the symbols and numbers are important. Some of the data found on a complete station model is not shown.

Refer to the chart to interpret the *code* symbols used in preparing station models. (The following questions refer to Figure A.)



1. What is the wind direction and wind speed?
2. What is the present form of precipitation at this station?
3. Suggest two reasons why this form of precipitation is occurring.
4. Approximately how much of the sky is overcast?
5. What is the air pressure in millibars?
6. What is the *trend* of barometric pressure at the station?

**Using the following information, create a weather station model.
To the right of letters A-E.**

- A. A southwest wind is blowing at 22 miles per hour.
- B. Barometric pressure is 1013.2 mb and falling.
- C. The dew point is 44°F and the temperature is 46°F and dropping.
- D. The sky is about ½ overcast.
- E. It is raining heavily, accompanied by lightning and thunder.