

EARTH SCIENCE REGENTS

Station Models Tutorial

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NAME _____
PERIOD _____

When you watch a weather report, the meteorologist describes the condition of the atmosphere at the present time, and makes a prediction about the future conditions that will exist in the atmosphere in the next 12 to 24 hours, and even for the next 5 days. Meteorologists get the data they need from *synoptic weather maps* - maps that show weather conditions from a number of weather stations around the country.

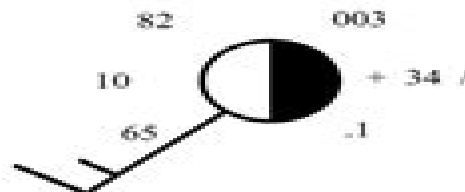
Individual weather stations report current conditions which are encoded on the map. This quick lab exercise will familiarize you with the information and method of encoding information on weather maps.

1. Make a list of all the conditions a meteorologist would include in a careful description of the current weather conditions. I've given you an easy one for a start.

Temperature _____
Dewpoint _____
Wind Speed _____
Wind Direction _____

Cloud Cover _____
precipitation amount _____
barometric trend (change in atmospheric pressure) _____
Current Atmospheric Pressure _____

2. Read Topics 13 and 14 on pages 509 and 510 in your text, and the "Weather Station Model" chart in the ESRT. Then, label what each feature on the station model drawn below represents:



3. There are probably a few things you thought might be included in the station model that aren't included here, and there are probably a few things here that you never thought of.
4. Use your text index to find, read about, and define the following terms:

dew point: **The temperature at which air is saturated with water vapor.** _____

relative humidity: **The extent to which air is saturated with water vapor; it is expressed as a percent.** _____

5. Find the long, narrow, vertical chart on your reference tables labeled "Pressure". What is the highest pressure (in millibars) labeled on that chart? 1041 mb

What is the lowest pressure, in millibars, labeled on the chart? 965 mb

The two pressures above are the approximate high and low limits of atmospheric air pressures that are observed at the earth's surface. Meteorologists take advantage of the limited range of observed pressures to encode them on the weather map.

Answers For Earth Science Odysseyware

**Paola Santagostino, Prentice Hall
(School Division)**



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