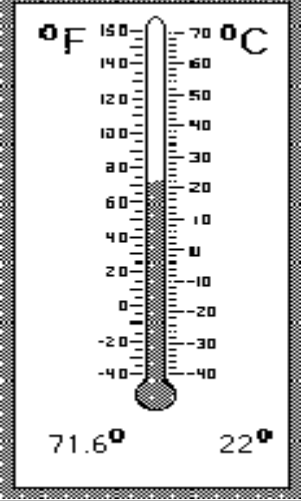
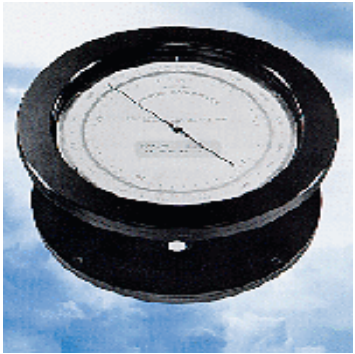


WEATHER MEASUREMENTS, INSTRUMENTS, DEFINITIONS AND CONCEPTS

	<p style="text-align: center;">Thermometers</p> <p>The units are either degrees Fahrenheit or Celsius. Most Internet based weather maps in the United States use the Fahrenheit scale.</p>
	<p style="text-align: center;">Barometers</p> <p>A scale can measure your weight. A barometer measures the air's weight by measuring air pressure. The units can be inches or centimeters, but on Internet weather maps meteorologists use millibars (mb). Also, they use a shorthand for the readings.</p> <p>125 on a weather map is actually 1012.5 mb</p> <p>062 on a weather map is actually 1006.2 mb</p> <p>929 on a weather map is actually 992.9 mb</p> <p>833 on a weather map is actually 983.3 mb</p> <p>Use the Common Meteorological Conversions site to change from inches to millibars.</p> <p>See "Observed Sea Level Pressure" from the University of Illinois WW2010 Project.</p>
	<p style="text-align: center;">Psychrometer, Hygrometer or Wet & Dry Bulb</p> <p>These measure how much water is in the air (the relative humidity). They can also help determine the</p>



temperature at which water condenses out of the air (the dew point).



Wind

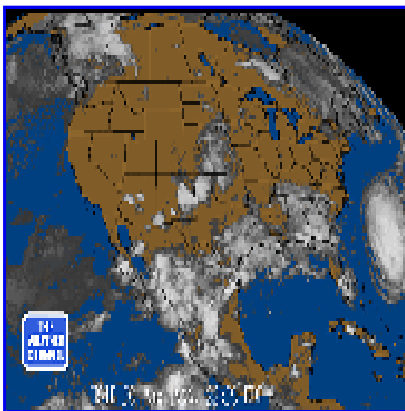
The direction of the wind is measured with a wind vane. The speed is measured with an anemometer. A wind is always named **from** the direction it is coming. A wind blowing from the north is called a north wind.



Precipitation

The position of rain, hail, snow, etc. is measured with radar. For a description of weather radar go to [Radar Images](#) from the Department of Atmospheric Sciences, University of Illinois.

[For present radar map of the U.S. go to this site from Intellicast.com](#)



Clouds

The type of clouds can be determined by referring the clouds you see to a [Cloud Catalog](#) from the Department of Atmospheric Sciences, Image/Text/Data from the University of Illinois WW2010 Project.

The position of clouds is photographed by satellites.

[For present cloud positions of the U.S. taken from a satellite go to this site.](#)

Interpreting Surface Observation Symbols

[A Tutorial in Interpreting Surface](#)

	<p><u>Observation Symbols</u></p> <p>From the Department of Atmospheric Sciences University of Illinois Urbana-Champaign</p> <p><u>Practice reading weather symbols from a station near you.</u></p> <p>Courtesy of WW2010 Project University of Illinois</p>
	<p>Online Definitions and Concepts</p> <p>From the Department of Atmospheric Sciences Image/Text/Data from the WW2010 Project University of Illinois Urbana-Champaign</p> <p>A collection of multimedia instructional modules that introduce and explain fundamental concepts in meteorology.</p> <p><u>Online Guide to Meteorology</u></p>
	<p><u>Encyclopedia of the Atmospheric Environment</u></p> <p>Produced by the UK Atmosphere, Climate & Environment Information Programme</p>

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