

Understanding Weather

What Is Weather?

The condition of the atmosphere at a specific time in a specific place is known as **weather**. The weather includes and is affected by water, wind, temperature and air pressure. **Meteorologists** are scientists who study and predict weather and weather patterns.



Humidity and Precipitation

As water evaporates from oceans, lakes and rivers, it is held in the air. The amount of water vapor in the air is called **humidity**. **Relative humidity** is a percentage that compares the amount of water vapor in the air with the maximum amount of water vapor the air can hold at a specific temperature.



Precipitation is water that has condensed in the atmosphere and falls to Earth. Sleet, snow, rain and hail are different forms of precipitation. The type that falls at a given time depends on the temperature.

The Sun's Energy & the Water Cycle

The continuous movement of water from the Earth's surface to the atmosphere and back is called the **water cycle**. Energy from the Sun heats water causing it to evaporate. Plants and animals also give off water; this is called **transpiration**. The largest source of atmospheric water vapor is the oceans. This water vapor accumulates in the atmosphere and forms clouds under proper conditions. Water eventually precipitates out of the clouds and falls back to Earth either as rain, snow or sleet.



Types of Clouds

Clouds are categorized based on their form and composition.



Stratus (spread out or layered)



Cumulus (heaped or piled up)



Cirrus (curly, wispy)

Cloud Formation

Clouds form when minute droplets of water or ice crystals accumulate in the atmosphere. A variety of cloud types form depending upon their height, air movement and the amount of water vapor and condensation particles.



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Reading Weather Maps

A weather map is a collection of weather data in the form of symbols indicating the weather conditions of a large geographic region at a particular time.



Weather Map Symbols

- Warm front symbol (red line with semi-circles) → warm front
- Cold front symbol (blue line with triangles) → cold front
- Stationary front symbol (alternating red and blue lines) → stationary front
- High pressure symbol (H in a circle)
- Low pressure symbol (L in a circle)
- Rain symbol (blue squiggly line)
- Snow symbol (white squiggly line)
- Thunderstorm symbol (red lightning bolt)

Photos courtesy of NOAA and NOAA.

Understanding Weather

RS Peters



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