

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)



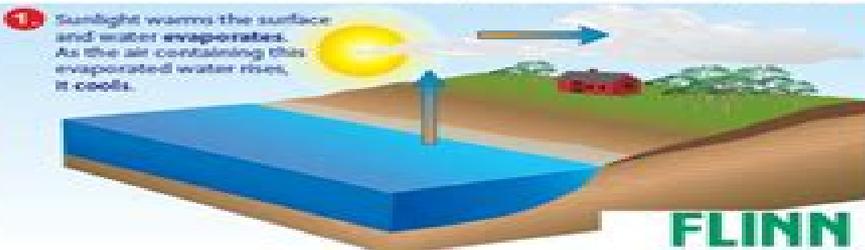
Cumulus (heaped or piled up)



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.



1. Sunlight warms the surface and water evaporates. As the air containing this evaporated water rises, it cools.

2. At a certain altitude, condensation begins as the air cools to the dew point.
3. As this cooling occurs, the water vapor condenses (changes) from a vapor to a liquid forming a cloud.

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
- △— cold front
- stationary front
- Ⓜ high pressure
- Ⓛ low pressure
- ☔ rain
- ❄ snow
- ☁ thunder storm

Understanding Weather

WJ Hussar



Understanding Weather:

Understanding Weather Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Understanding Weather**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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