Existing High Pressure

Air Pressure above 30.00" (30.23")

No wind or light winds.

Progressively getting warmer.

No clouds or cumulus clouds.

No precipitation.
Cold Front

Warm Front

L (Low Pressure)

Air Pressure below 30.00" (29.95) Hg

Dropping Pressure

Strong South Winds

Rising Temperature

Cause by South Wind

Cirrus Clouds, followed by high thin clouds

No precipitation
Existing Low Pressure

Air pressure reaches lowest point. (29.50)

North wind (sometimes strong)

Cold, Stratus Clouds

Rain or Snow

Cold Air
Rising Pressure

Air pressure below 30.00" but rising (29.75"")

Cold temperatures but slowly on the rise.

Lingering stratus clouds breaking up, partly cloudy skies, cumulus clouds.

Rain/snow off and on.
The air that is drawn into a thermal is warm.

**Thermals**

During the summer, the ground heats really warm. The hot ground heats the air. The hot air rises and causes a thermal to form in the air. If there is any moisture in the thermal, it can create a cumulus cloud.
Summer Storms

Summer storms are caused by huge cumulo-nimbus clouds. As hot air rises, it creates a thermal. A lot of moisture coming in from the south, west, or east goes up into the thermal. The moisture cools and makes huge rainclouds. The dominating high pressure brings in this moisture and feeds it into the thermal.

Spins clockwise and brings in this moisture.