## **Notes for Clouds and Precipitation**

- <u>Clouds</u> form when warm, moist air rises and cools down to the dew point causing water vapor to condense into water droplets.
  - Form best on warm, sunny days.
  - Contrails water vapor in exhaust from planes condenses
- <u>Precipitation</u> when water droplets in clouds become too heavy and fall towards the ground
  - Rain temperatures above freezing entire way
  - Freezing rain temperature is above freezing up high but below freezing near the ground
  - <u>Sleet</u> When there is a layer of warm air between two layers of air below freezing. (ice melts wet ice)
  - Snow When the temperature is below freezing entire way

- <u>Lake Effect Snow</u> when lake water evaporates into air that then moves over land where the water condensates into snow
- Hail form when there are strong convection currents in the clouds. Common in warmer months and is associated with thunderstorms and tornadoes.