

Earth Science (ENV 1050) Topics – 5

Meteorology

Atmosphere

Composition
CO₂
O₃
Greenhouse Effect
Greenhouse Gases
Pollutants
Structure

The Seasons

Inclination of Earth's Axis
Solar Altitude
Temperature
Milankovitch Cycles

Moisture In The Atmosphere

Absolute Humidity
Vapor Capacity
Dew Point
Saturation
Relative Humidity
Condensation

Air Stability

Adiabatic Lapse Rate
Environmental Lapse Rate
Convergence of Air Masses
Orographic Lifting
Frontal Wedging

Clouds

Precipitation
Bergeron Process
Collision-Coalescence Process
Types of Fog

Pressure & Wind

Pressure
Cyclones
Anticyclones
Coriolis Effect
High & Low Pressure Centers
Isobars
Causes of Wind

General Atmospheric Circulation

Polar Westerlies/Easterlies
Westerlies/Easterlies
Subtropical High
Equatorial Low
Subpolar Low
Trade Winds
Air Masses
Cold Fronts
Warm Fronts
Occluded Fronts
El Niño

Severe Weather

Hurricanes
Thunderstorms & Lightning
Tornadoes