

LO3

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Weather and Climate

Weather is the state of the atmosphere at a given point in time

Climate refers to the “average” weather conditions for an area of a long period of time

Elements

Air temp

Air pressure

Humidity

Clouds

Precipitation

Visibility

Wind

Atmospheric structure

Atmosphere

- Gasses surrounding planet

Thermosphere

- Warmer with height
- ~ 500 C / 900 F
- Few air molecules
- Auroras (northern and southern lights)

Mesosphere

- Mysterious
- 50-85 km
- Colder with height
- Mesopause divides this part and thermosphere

Stratosphere

- Ozone layer
- 10-50 km
- Warmer with height
- Stratopause divides this part and mesosphere

Troposphere

- Location of weather
- 0-10 km
- Colder with more height
- Tropopause divides this part and stratosphere

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