

Blackbird SR-70
26 km



Boeing 747
12 km



Balloon
5-7 km



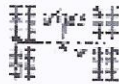
Ozone molecules
20-30 km



Aurora Borealis
100-250 km



Intl. Space Station
300 km



Flock of Geese
6-7 km



Weather
near the surface



Cirrus Clouds
16 km



Cumulonimbus
up to 16 km



Radio Waves
96-112 km



Meteors
48-80 km



Unmanned Spacecraft
3000 km



TROPOSPHERE

Temperature: DECREASES, 6.5 °C per km
Characteristics: to about -60 °C
1. Most weather occurs here where we live
2. Convection Currents

STRATOSPHERE

Temperature: INCREASES, to about 0 °C
Characteristics:
1. Contains most of atmosphere's ozone
2. Where jets and manned balloons have gone

MESOSPHERE

Temperature: DECREASES, -100 °C at top
Characteristics:
1. Protects Earth from meteors
2. Coldest region of atmosphere

THERMOSPHERE

Temperature: INCREASES, 2,000 °C at top
Characteristics:
1. Temps get up to 2000 °C
2. Air molecules are 1 km apart!

OZONOSPHERE

Characteristics:
1. Ozone is made of 3 oxygen atoms
2. Protects the surface from Sun's UV rays
3. Humans are causing Ozone depletion

IONOSPHERE

Characteristics:
1. Lower part of Thermosphere
2. Radio waves bounce back to Earth's surface

EXOSPHERE

Characteristics:
1. Upper part of Thermosphere
2. Artificial Satellites orbit here

MAGNETOSPHERE

Characteristics:
1. Earth's Magnetic Field
2. Causes Aurora Borealis (Northern Lights)