

# Atmosphere Composition

	Volume	Parts per million (ppm)
<b>Molecular Nitrogen</b> - N <sub>2</sub>	78.08%	774,500
<b>Molecular Oxygen</b> - O <sub>2</sub>	20.94%	207,500
<b>Inert Gases</b>	<1%	
<b>Argon</b> - Ar	0.93	
<b>Neon</b> - Ne	0.00182	
<b>Rare Gases</b>		
<b>Helium</b> -He	0.000524	
<b>Methane</b> -Ch <sub>4</sub>	0.00015	
<b>Krypton</b> -Kr	0.000114	
<b>Hydrogen</b> -H <sub>2</sub>	0.00005	
<b>Variable Gases</b>		
<b>Water Vapor</b> - H <sub>2</sub> O	0.25%	8,357
<b>Carbon dioxide</b> - CO <sub>2</sub>	0.04%	401
<b>Aerosol: suspended particles such as sea salt, dust, smoke etc</b>		

## Atmos

### 1. Chemical Stratification of the atmosphere

**Homosphere (0-88)**

**Heterosphere**

**Molecular Nitrogen(88-210)**

**Atomic Oxygen(125-700)**

**Helium (700-1100)**

**Atomic Hydrogen (1100-)**

### 2. General Stratification of the atmosphere

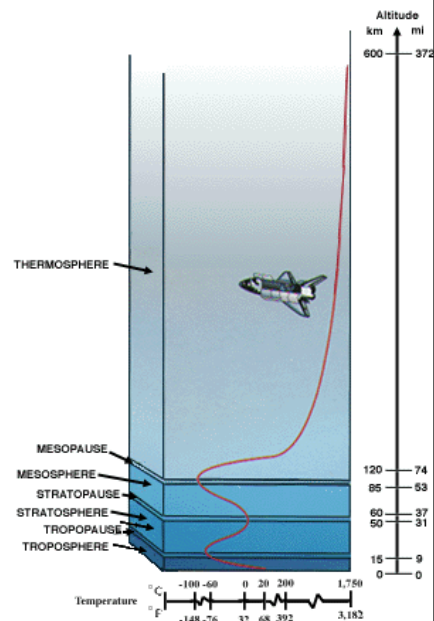
**Troposphere**

**Stratosphere**

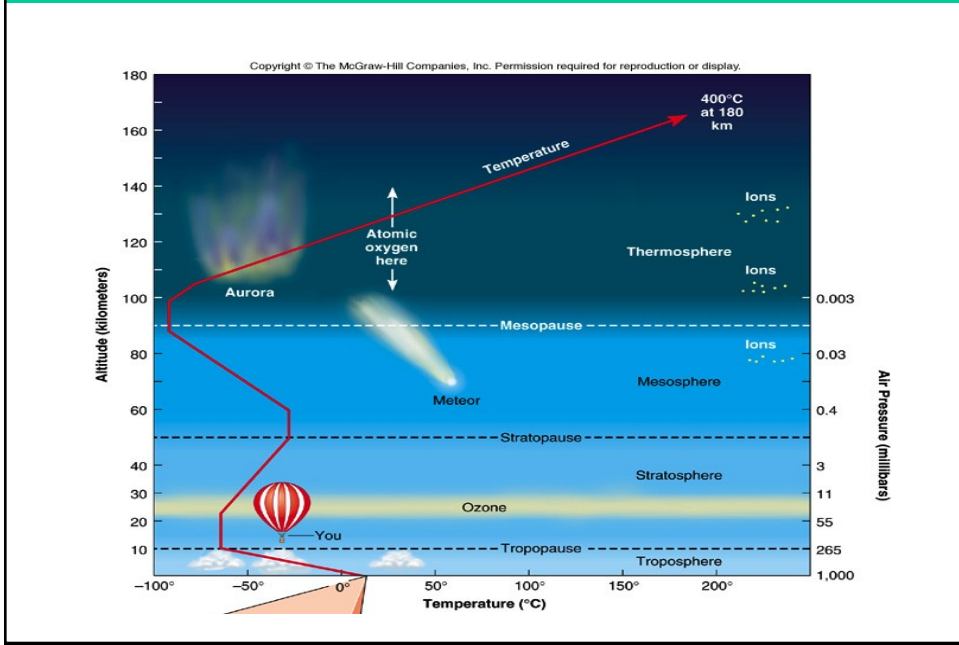
**Mesosphere**

**Thermosphere**

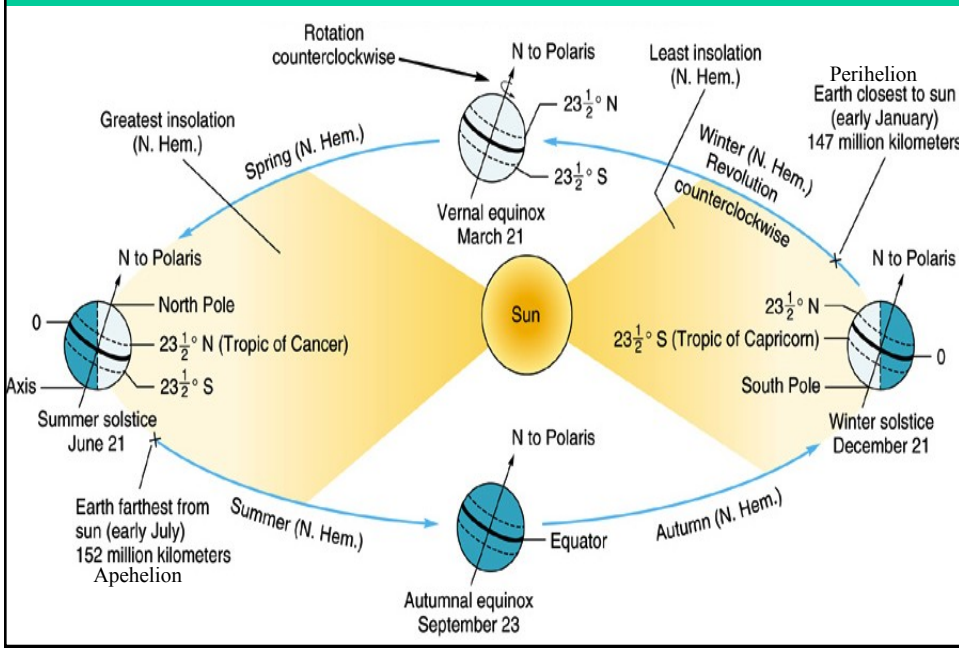
} **Ionosphere**



# Vertical Atmospheric Profile



# Sun-Earth Relationship



## **Weather elements / parameters**

- 1. Solar radiation**
- 2. Temperature,**
- 3. Air pressure**
- 4. Wind velocity and wind direction**
- 5. Moisture (humidity)**
- 6. Cloudines (Sunshine hours)**
- 7. Precipitation (Rainfall)**