Solar Radiation

- Most of the solar radiation that reaches Earth is made up of visible and infrared light.
 - Only a small amount of ultraviolet radiation reaches the surface.





IR (long wave) radiation emitted by Earth's surface interacts with gases in the atmosphere... Some of these gases trap the heat (IR) and

warm up the Earth even more

Greenhouse Gases

•The 'greenhouse gases' play an important role in trapping the infrared radiation.



Greenhouse gases:

- Water vapor (H₂O)
 Carbon Dioxide (CO₂)**
- 3. Methane (CH₄)
- 4. **Ozone (O**₃)
- 5. Nitrous Oxide (N₂O)
- 6. Chloroflurocarbons (CFCs)

Human Influence on Greenhouse Gases



- Increased CO₂
- Chlorofluorocarbons (CFCs)
 - do not occur in nature
 - in other words, are man-made

