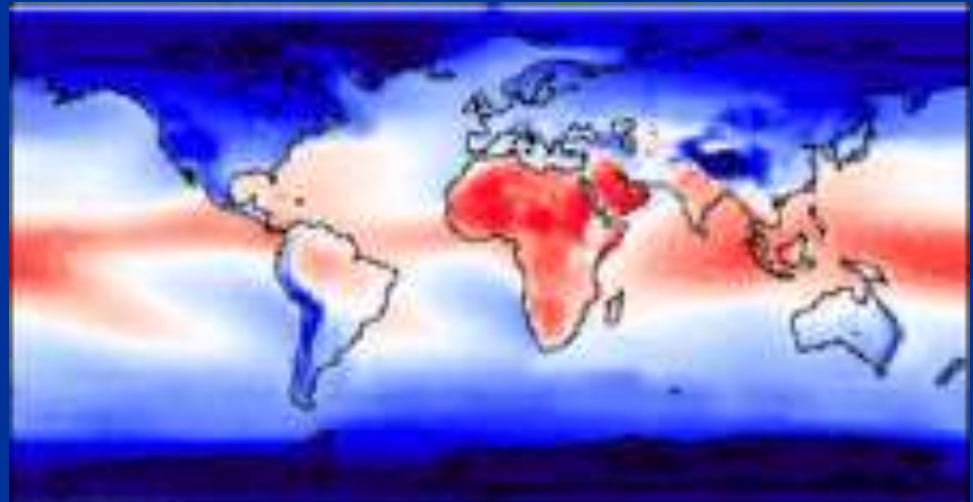


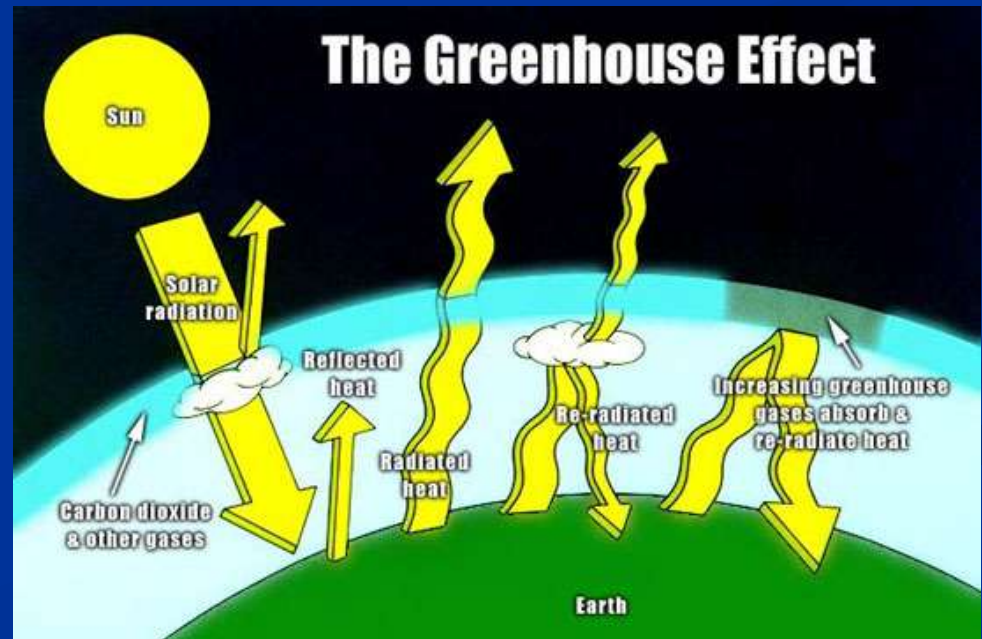
The Greenhouse Effect

- The greenhouse effect is a naturally occurring process that aids in heating the Earth's surface and atmosphere. It results from the fact that certain atmospheric gases, such as carbon dioxide, water vapor, and methane, are able to change the energy balance of the planet by absorbing longwave radiation emitted from the Earth's surface



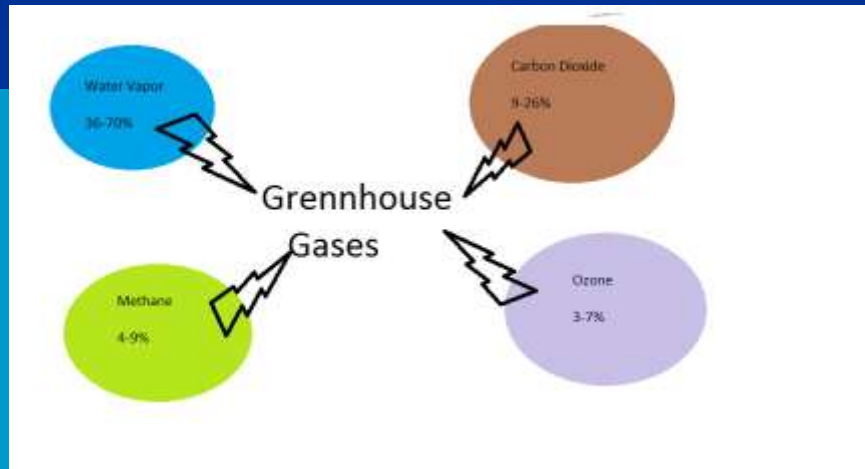
How does the greenhouse effect

- The Earth receives energy from the Sun in the form of visible light. This light is absorbed from the Earth's surface, and re-radiated as thermal radiation. Some of this thermal radiation is absorbed by the atmosphere, and re-radiated both upwards and downwards; that radiated downwards is absorbed by the Earth's surface. All this leads to a global warming of the Earth.



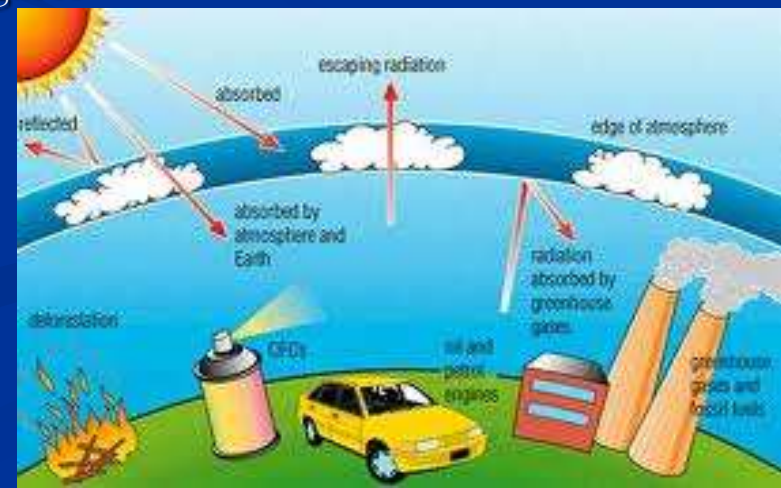
Greenhouse gases

- gases that contribute most to the greenhouse effect are: water vapor, carbon dioxide, methane and ozone.
- Their percentage is:
 - Water vapor: 70%
 - Carbon dioxide: 26%
 - Methane: 9%
 - Ozone: 7%
- The major non-gas contributor to the Earth's greenhouse effect are the clouds that also absorb and emit infrared radiation and this have an effect on radiative properties of the atmosphere.



How Do Humans Contribute to the Greenhouse Effect?

- While the greenhouse effect is an essential environmental prerequisite for life on Earth, there really can be too much of a good thing.
- The problems begin when human activities distort and accelerate the natural process by creating more greenhouse gases in the atmosphere than are necessary to warm the planet to an ideal temperature.
- The contributors are:
 - Burning natural gas, coal and oil
 - Some farming practices and land-use changes
 - Many factories produce long-lasting industrial gases
 - Deforestation
 - Population growth



How to solve the problem of Greenhouse effect?

- The largest contributors to the greenhouse effect are: CO₂ and methane. There are many theories about how to solve the CO₂ like we should increase the production of energy from other sources such as wind and sun. Methane is a gas at which we do not give much importance, but this gas is more harmful, because it has a 22 to 33 times greater greenhouse effect than CO₂.



THE END

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