

# ***THE GLOBAL WARMING***



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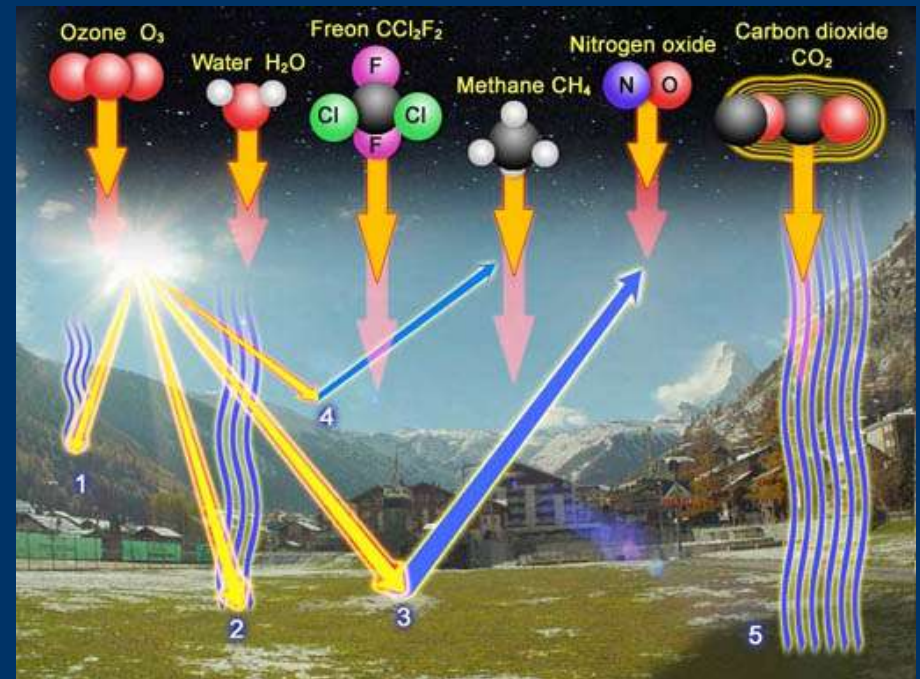
# *What is Global Warming?*

Global warming is  
the increase in the  
average  
temperature of  
Earth's near-  
surface air.



# Greenhouse gases

The greenhouse effect is the process by which absorption and emission of infrared radiation by gases in the atmosphere warm a planet's lower atmosphere and surface.



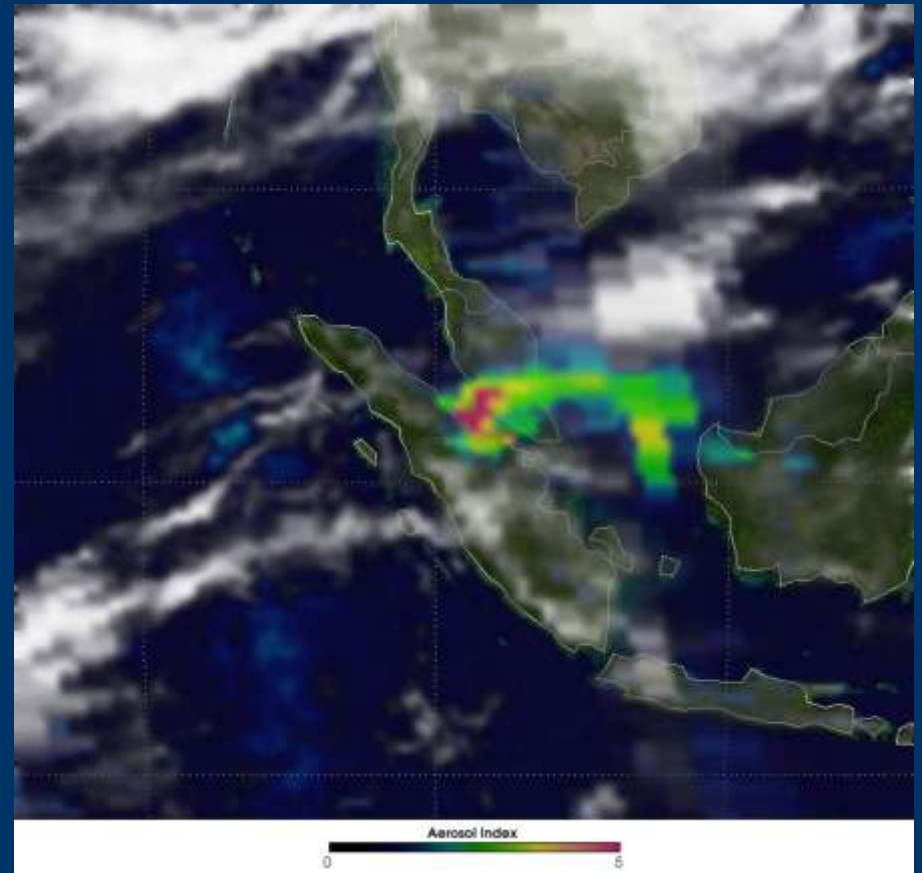
Human activity since the Industrial Revolution has increased the amount of greenhouse gases in the atmosphere, leading to increased radiative forcing from CO<sub>2</sub>, methane, tropospheric ozone and nitrous oxide.



# *Aerosols and soot*

Global dimming is a gradual reduction in the amount of global direct irradiance at the Earth's surface

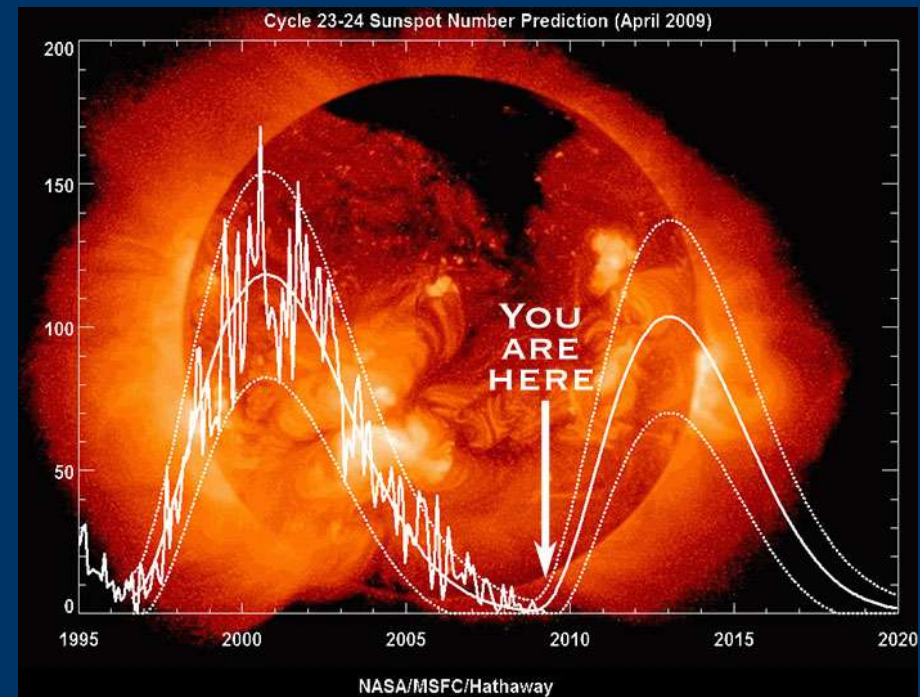
The main cause of this dimming is aerosols produced by volcanoes and pollutants.





# ***Solar variation***

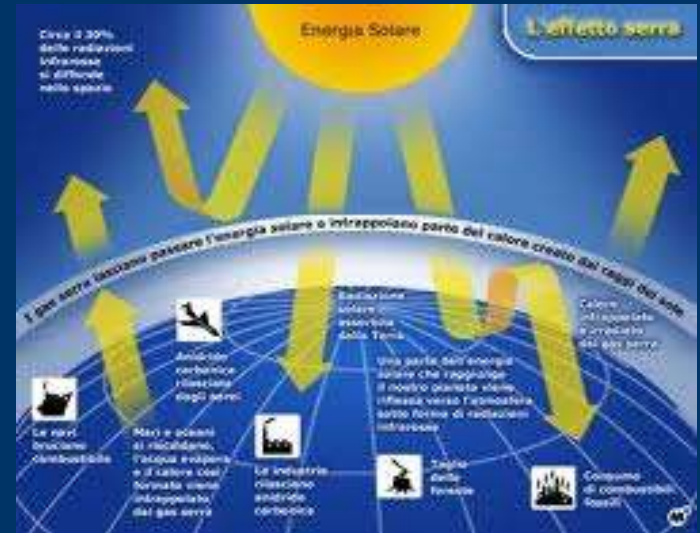
Greenhouse gases and solar forcing affect temperatures in different ways. While both increased solar activity and increased greenhouse gases are expected to warm the troposphere, an increase in solar activity should warm the stratosphere while an increase in greenhouse gases should cool the stratosphere



# *What is Global Warming caused by?*

The main factors of climate change are caused by men :

- Increase in the concentration of GHG in the atmosphere ;
- Changes in the Earth's surface as deforestation ;
- Increase of Aerosol.



# *How can we reduce it?*

The scientific consensus around global warming and the forecast of rising temperatures have convinced many nations, companies and individuals to take steps to try to limit this phenomenon. The main international agreement to control global warming is the Kyoto Protocol, an amendment to the United Nations Framework Convention on Climate Change negotiations in 1997.





# *The Kyoto Protocol*

The Kyoto Protocol is a protocol to the United Nations Framework Convention on Climate Change, aimed at fighting global warming. It is an international environmental treaty with the goal of achieving stabilization of greenhouse gas concentrations in the atmosphere at a level that would prevent dangerous anthropogenic interference with the climate system.

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