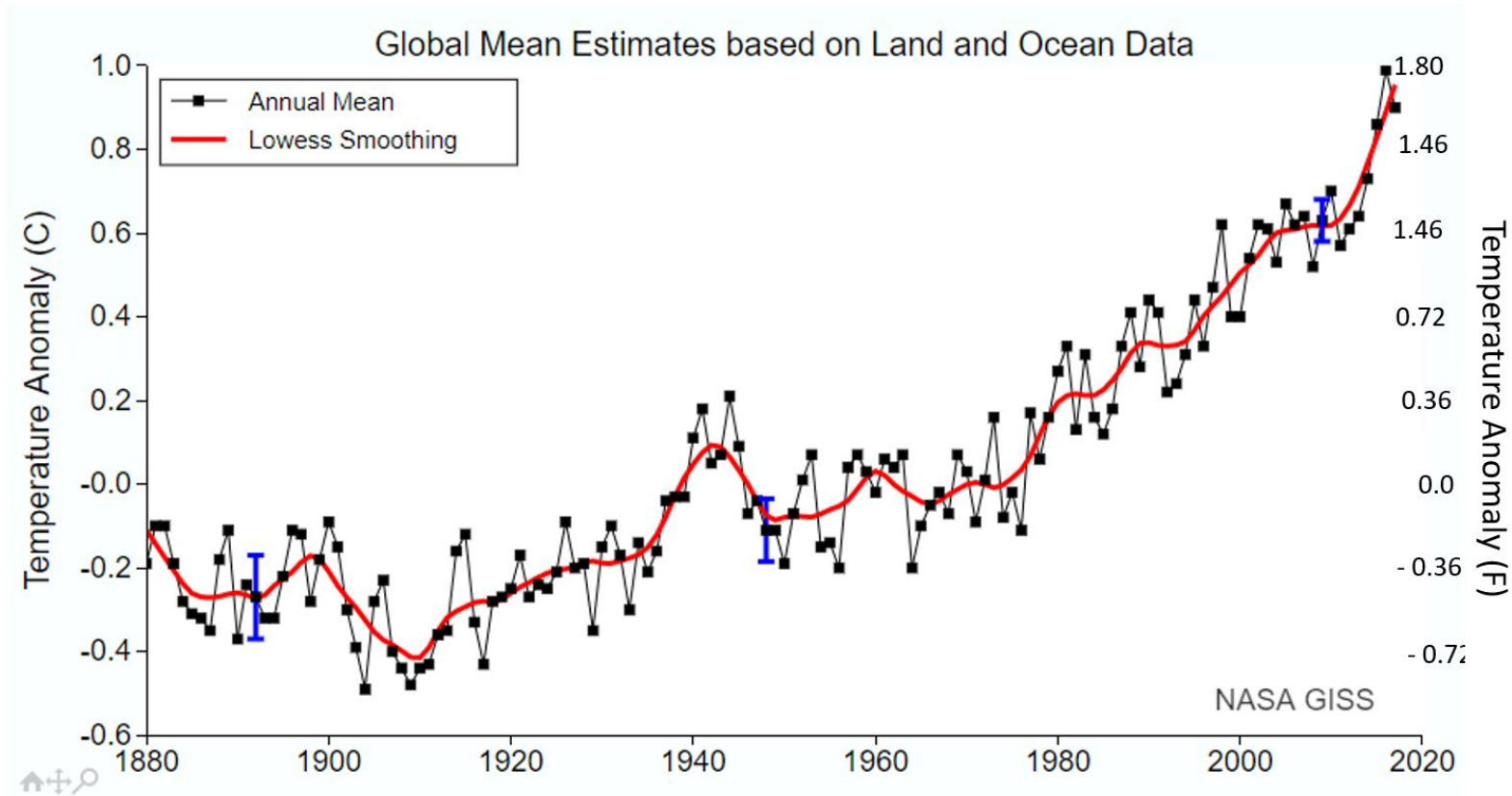


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Global Temperatures 1880 – 2017

Baseline 1951-1980



<https://data.giss.nasa.gov/gistemp/graphs/>

A

Hot bodies
emit radiation



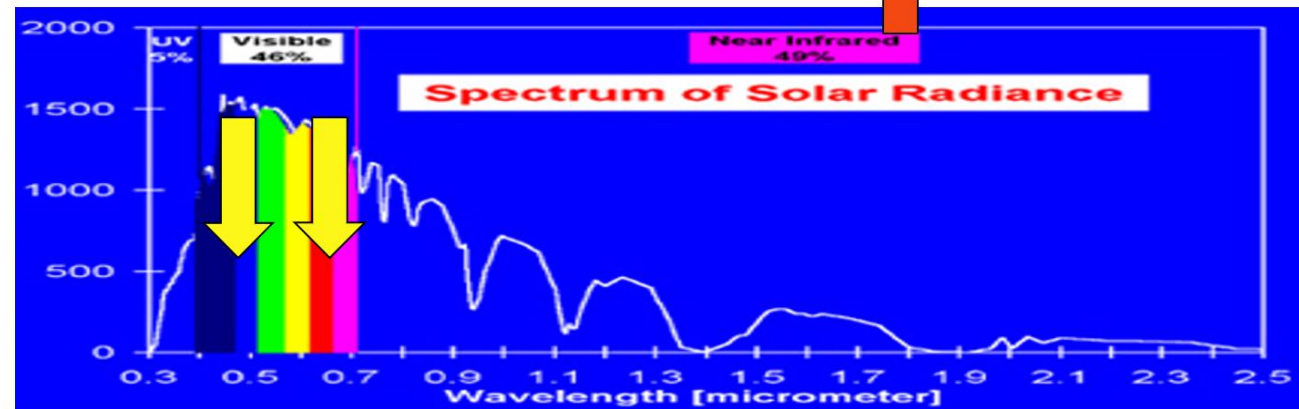
in shorter wavelength form =
Visible and UV Light Energy

**What Happens to
Incoming Radiation?**



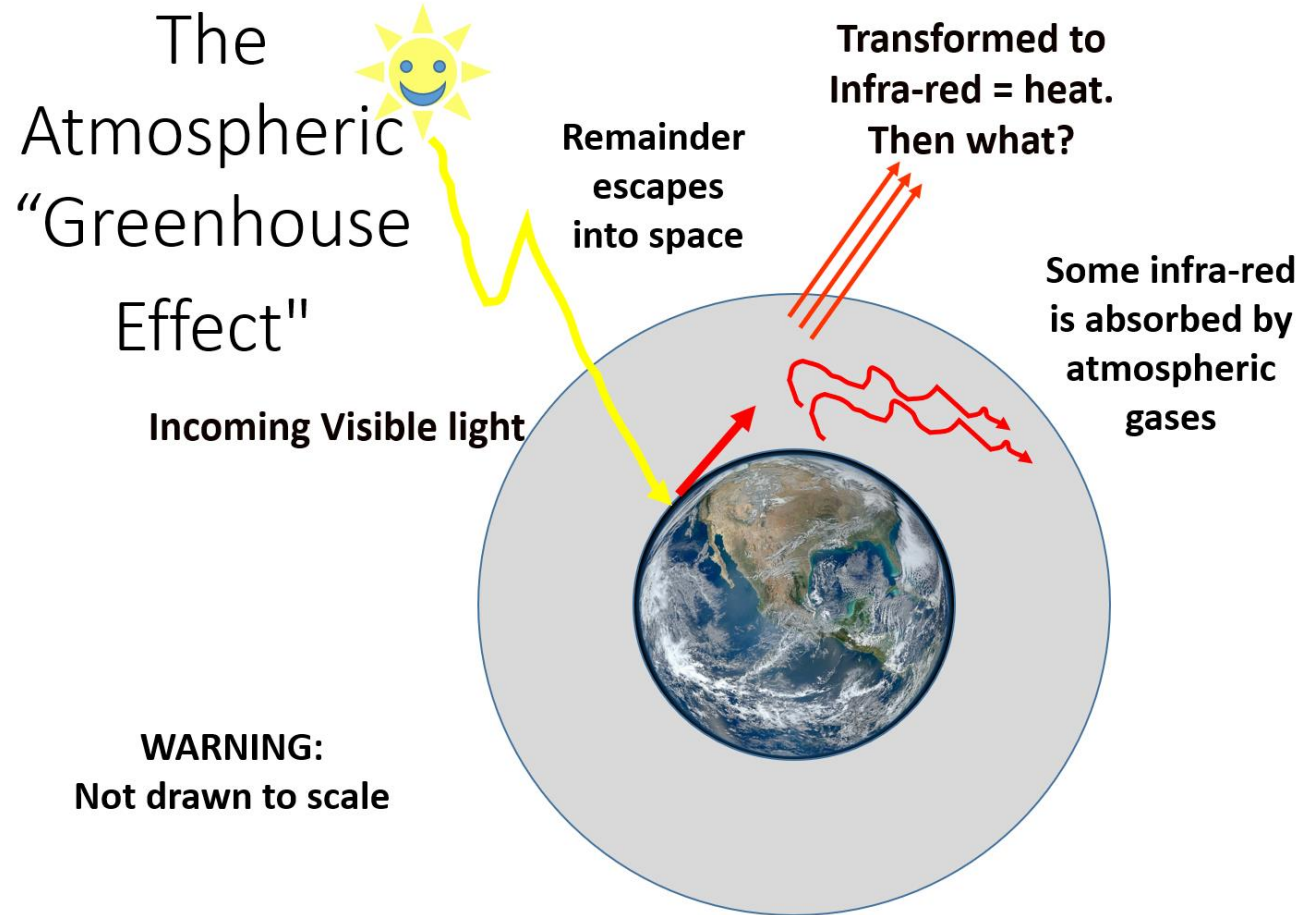
Cooler bodies
emit radiation
in longer wavelength form
= Heat Energy

Spectral
Irradiance
Intensity
 $\text{wm}^2/\mu\text{m}$

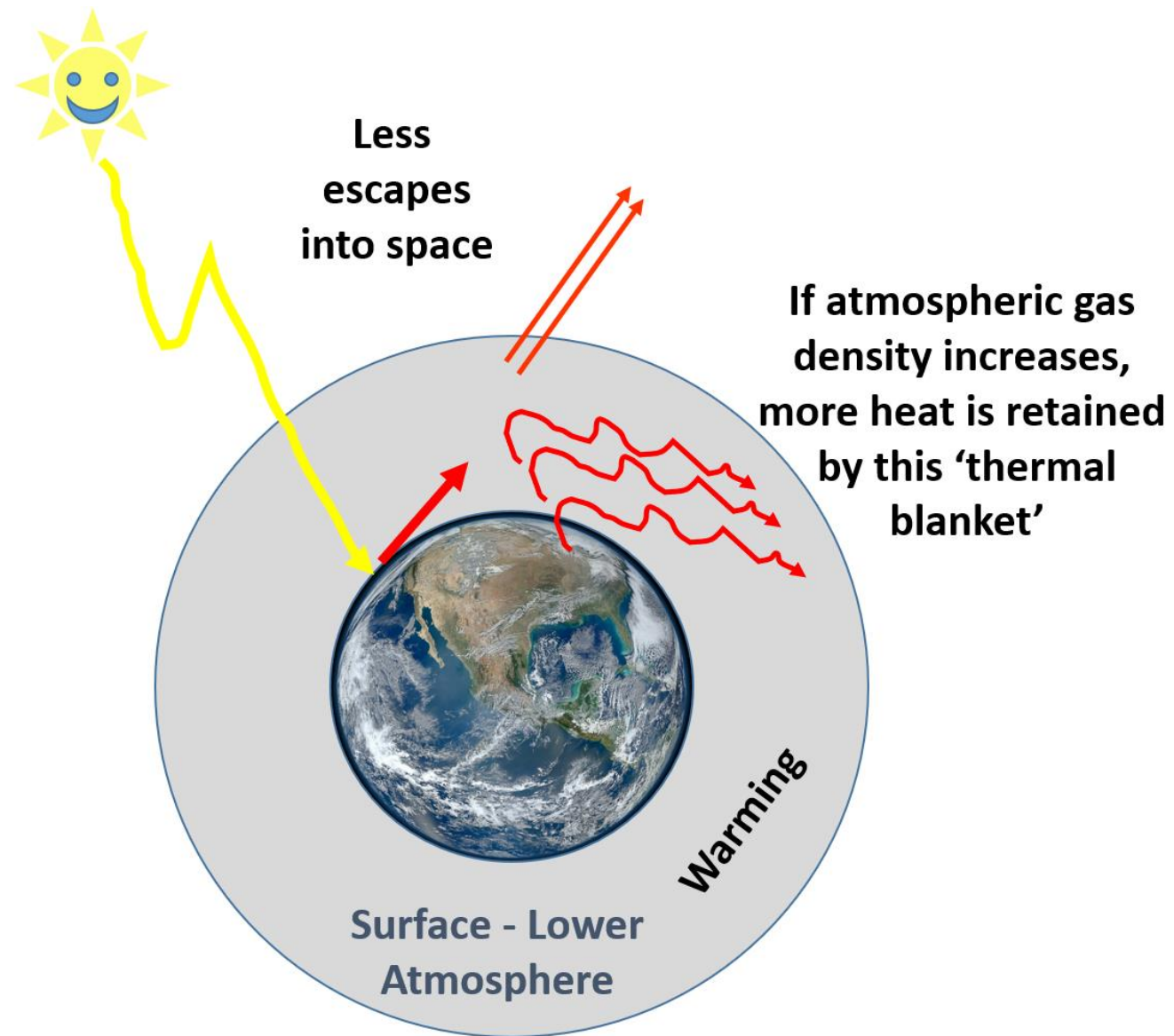


http://solarcellcentral.com/images/solar_spectrum_2.jpg

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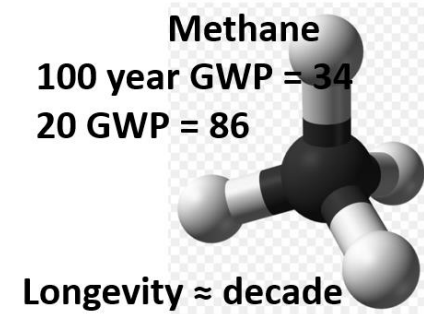
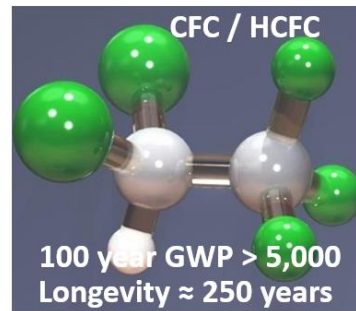
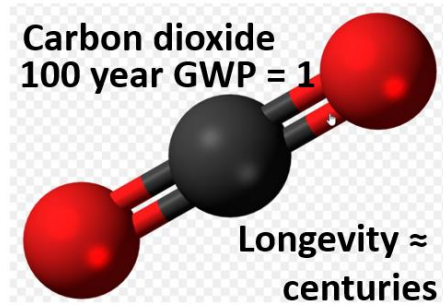


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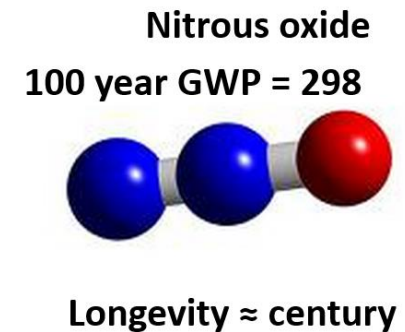


A

The Main GreenHouse Gases (GHG)



GWP = Global Warming Potential:
the relative heating capacity of 1
Kg of a gas compared to 1 Kg of
CO₂.
Also known as the Carbon
dioxide equivalent
CO₂e.



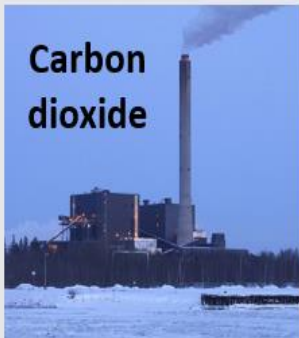
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Sources of Most Warming Gases

COAL



Carbon dioxide



Land Use Management

OIL / GASOLINE

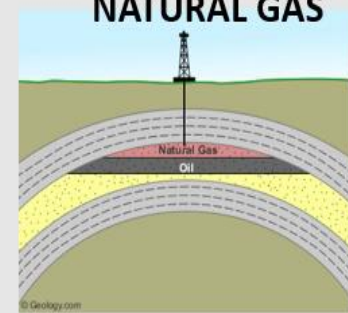


Carbon dioxide



Agriculture Forestry

NATURAL GAS



Methane Carbon dioxide

