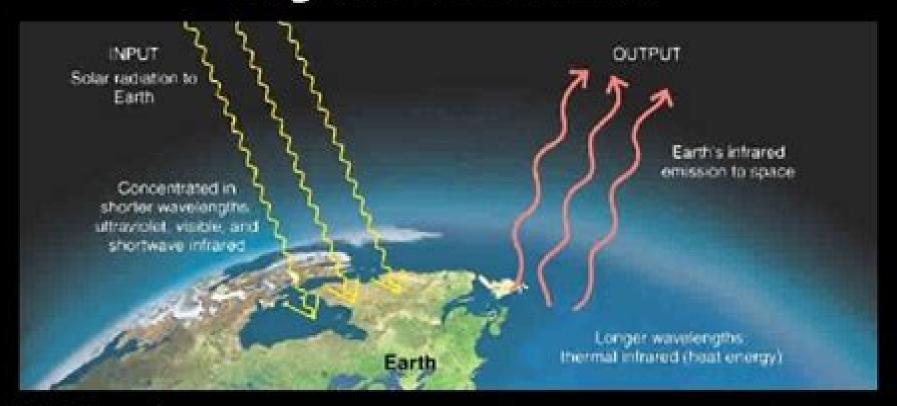
# Solar *shortwave* radiation vs. Earth's *longwave* radiation...



# Stefan-Boltzmann law

The total energy emitted by each m2 of the surface of a blackbody depends only on the temperature.

$$E = \sigma T_d$$

E is the power radiated per unit area (watts/ $m^2$ ) - is a constant T is the temperature of the blackbody in Kelvin  $\sigma$  is the Stefan Boltzmann constant - 5.67 x  $10^{-8}$  W/ $m^2$  K

# **Shortwave Solar Radiation In The Earths Atmosphere**

**Viorel Badescu** 

#### **Shortwave Solar Radiation In The Earths Atmosphere:**

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