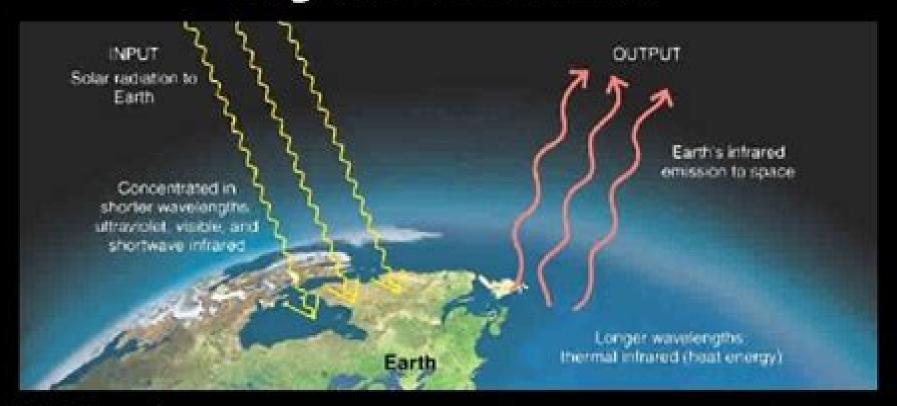
# Solar *shortwave* radiation vs. Earth's *longwave* radiation...



### 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**

Irina N. Melnikova, Alexander V. Vasilyev

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

Short-Wave Solar Radiation in the Earth's Atmosphere Irina N. Melnikova, Alexander V. Vasilyev, 2005 Based on data from an experiment which ran for ten years this book summarizes the results of the Atmospheric Physics Department of the St Petersburg University and the Main Geophysical Observatory The processed data now forms a rich dataset of spectral values of radiative characteristics under different atmospheric conditions The analysis of this database clearly shows that the solar radiative absorption in a dusty and cloudy atmosphere is significantly higher than assumed to date Both graduate students of atmospheric sciences as well as scientists and researchers in the field of meteorology and climatology will find a wealth of new data and information in this monograph Short-Wave Solar Radiation in the Earth's Atmosphere Irina N. Melnikova, Alexander V. Vasilyev, 2005-08-29 Based on data from an experiment which ran for ten years this book summarizes the results of the Atmospheric Physics Department of the St Petersburg University and the Main Geophysical Observatory The processed data now forms a rich dataset of spectral values of radiative characteristics under different atmospheric conditions The analysis of this database clearly shows that the solar radiative absorption in a dusty and cloudy atmosphere is significantly higher than assumed to date Both graduate students of atmospheric sciences as well as scientists and researchers in the field of meteorology and climatology will find a wealth of new data and information in this monograph

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