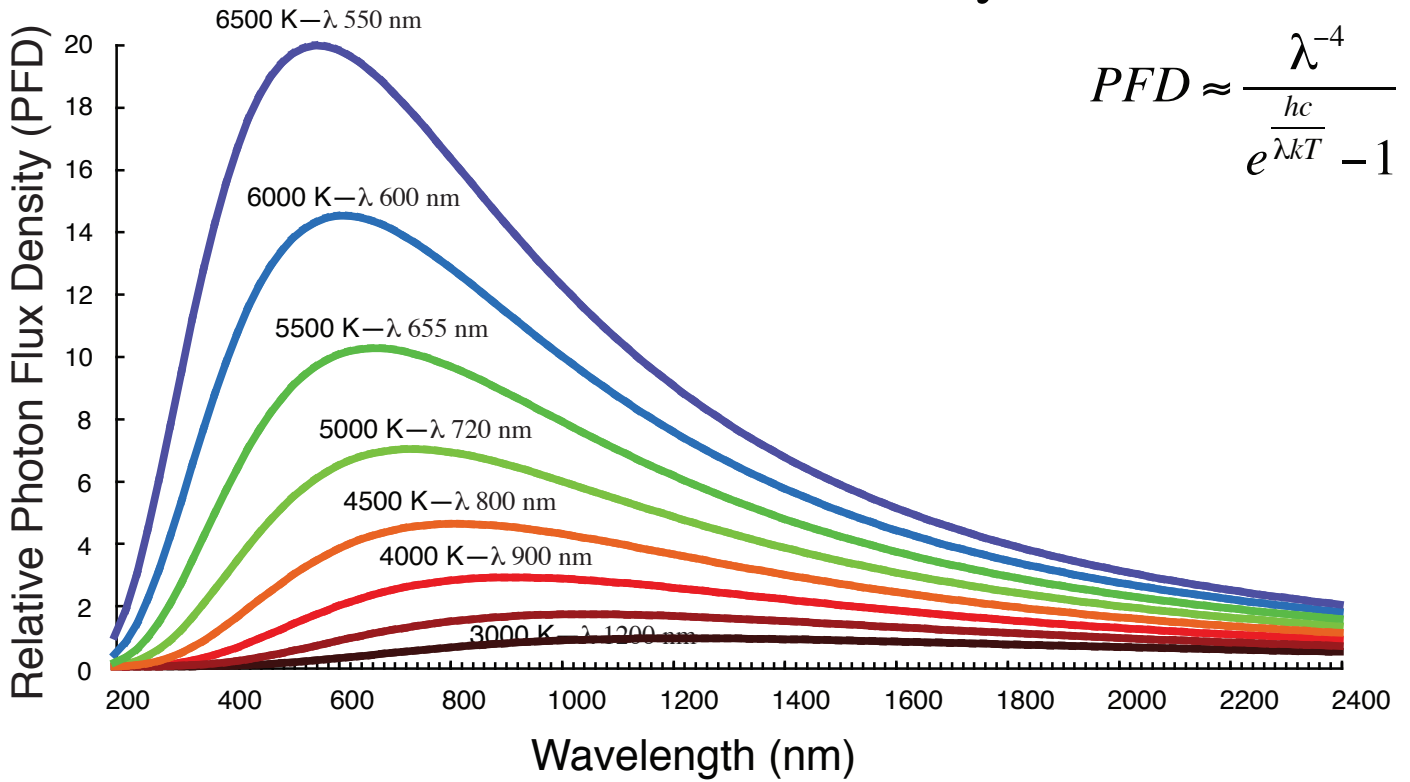




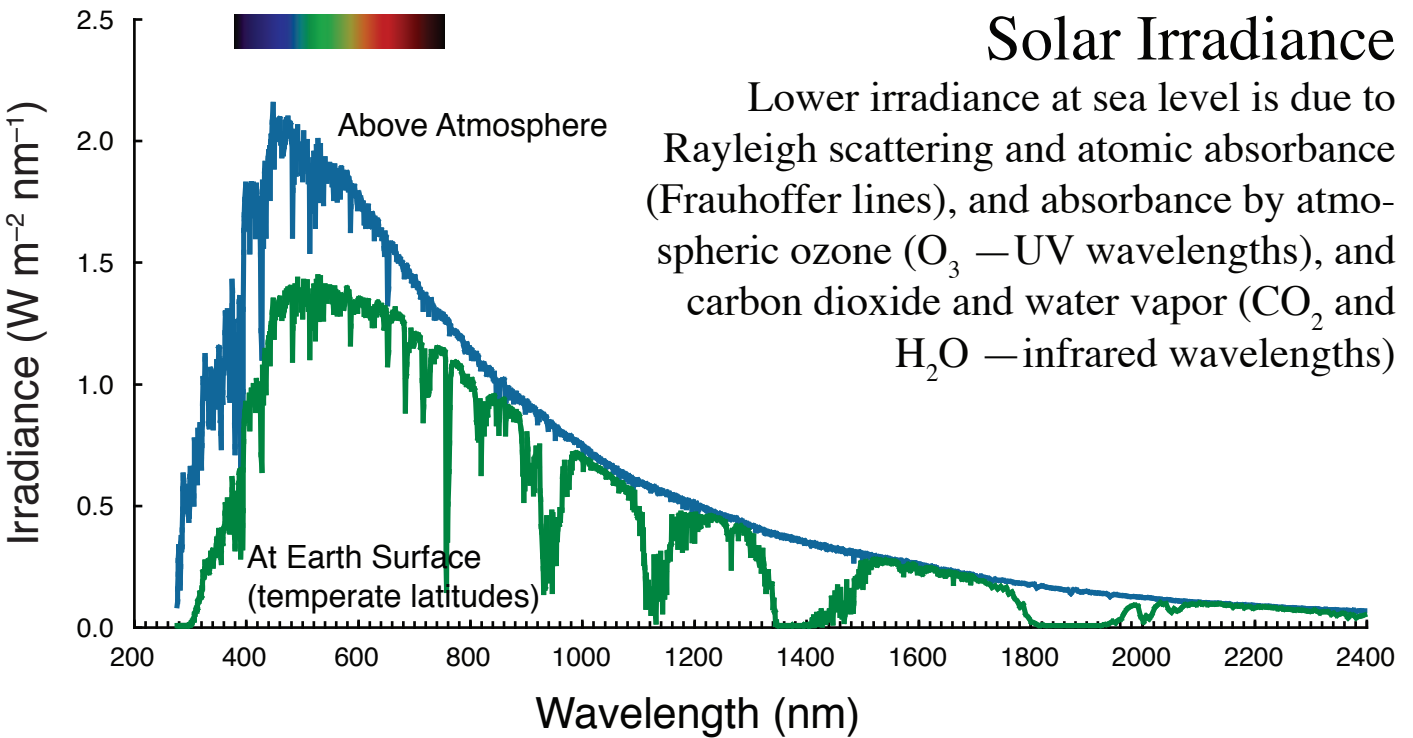
Planck's Black Body Radiation Law

$$PFD \approx \frac{\lambda^{-4}}{e^{\frac{hc}{\lambda kT}} - 1}$$



Solar Irradiance

Lower irradiance at sea level is due to Rayleigh scattering and atomic absorbance (Fraunhofer lines), and absorbance by atmospheric ozone (O₃ — UV wavelengths), and carbon dioxide and water vapor (CO₂ and H₂O — infrared wavelengths)



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