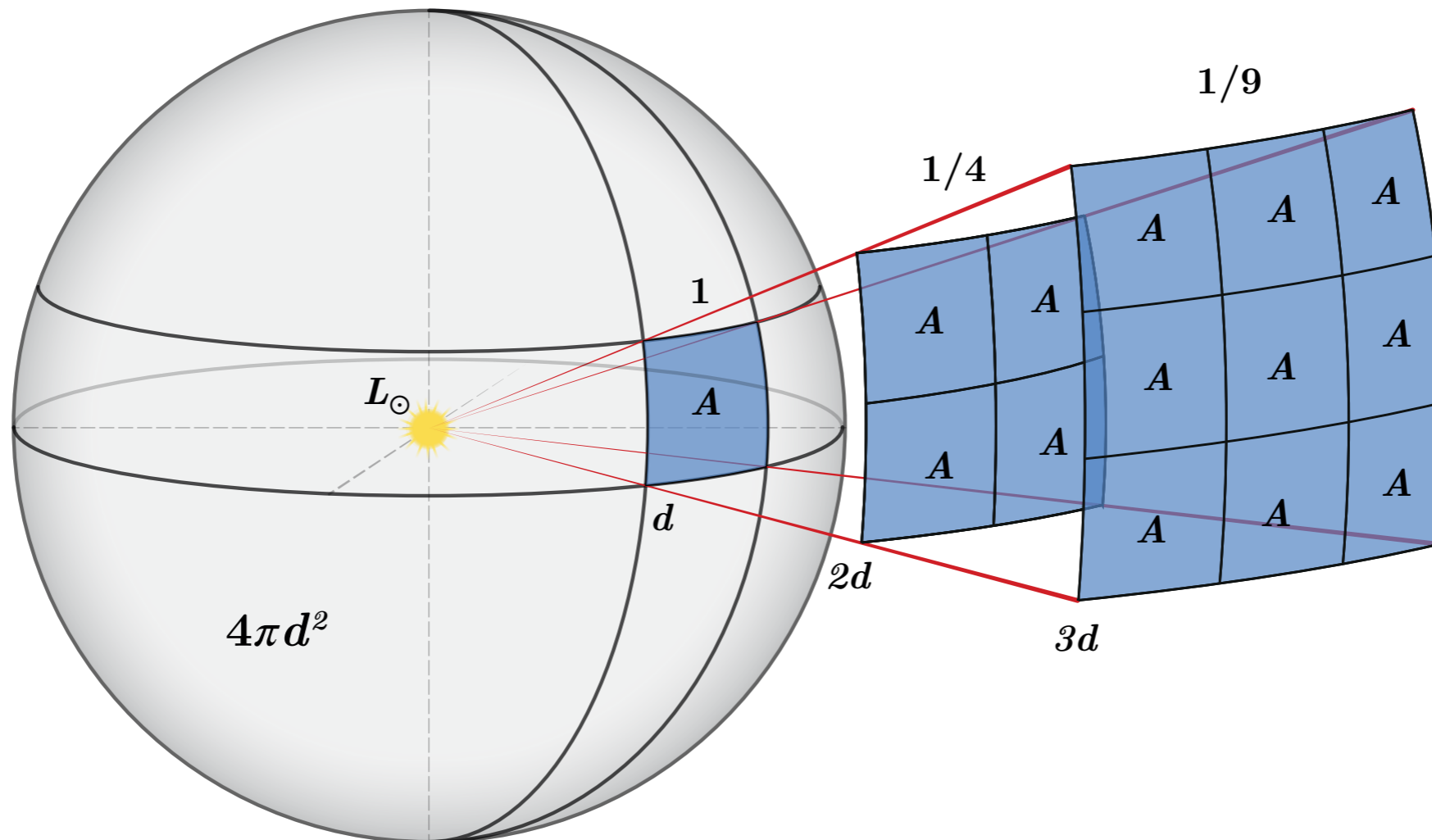


Radiative Energy

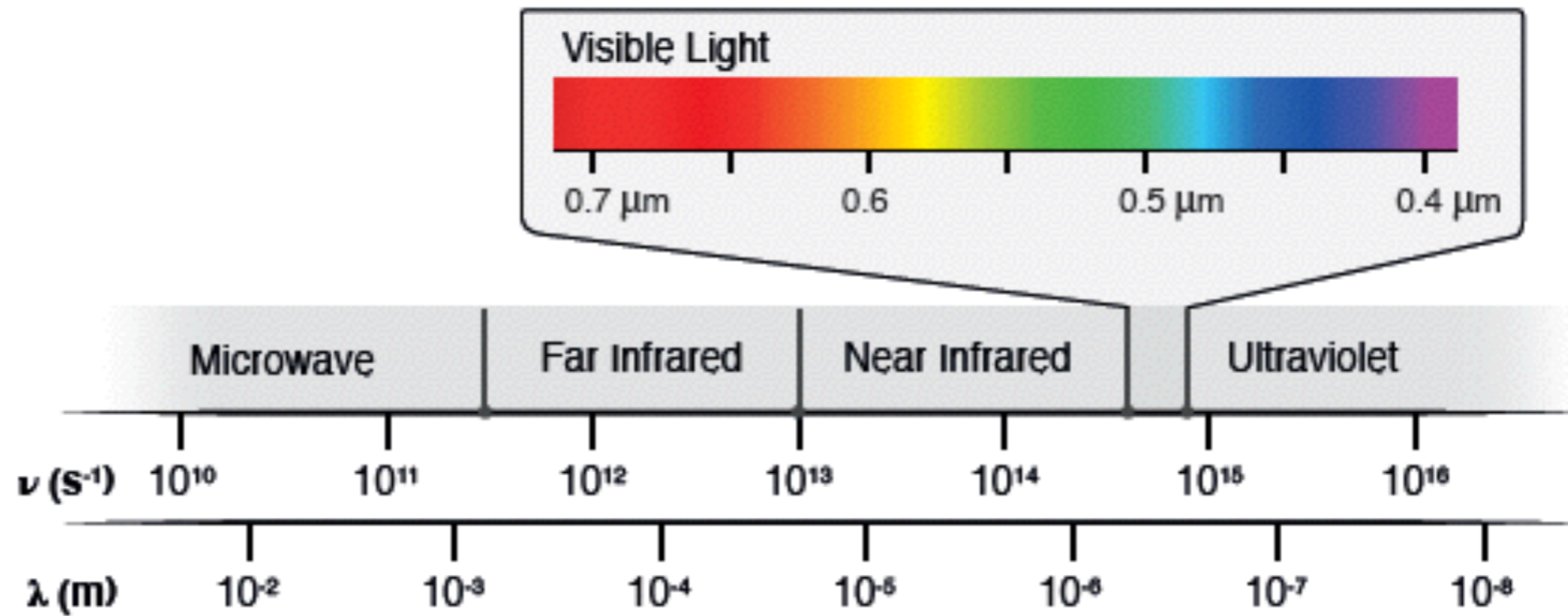
TABLE 2.1: Properties of the Sun

Luminosity L_{\odot}	$3.83 \times 10^{26} \text{ W}$
Mean radius r_{\odot}	$6.96 \times 10^8 \text{ m}$
Mass	$1.99 \times 10^{30} \text{ kg}$
Effective temperature	5775 K
Mean distance from Earth d_E	$1.496 \times 10^{11} \text{ m}$

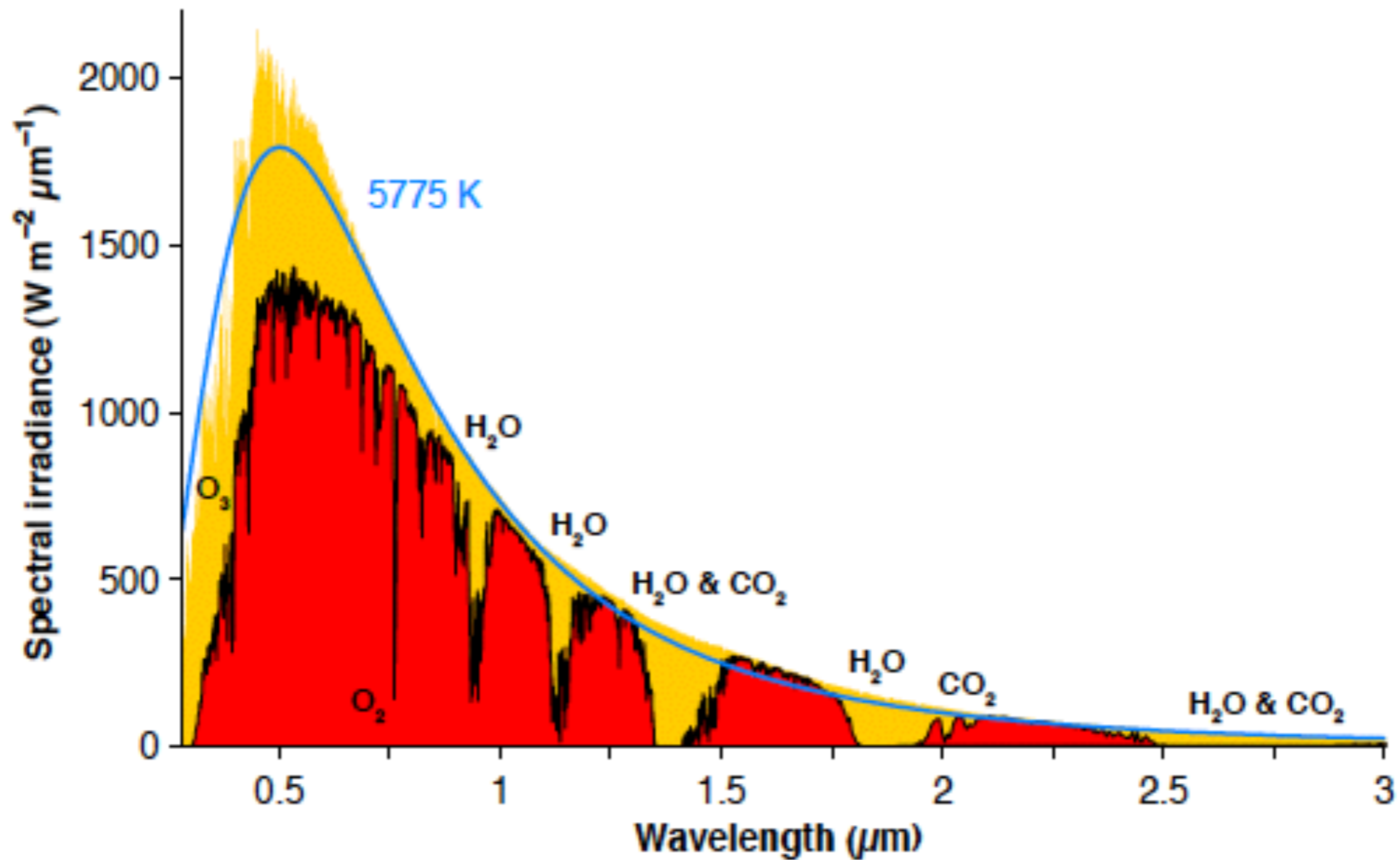
Inverse square law



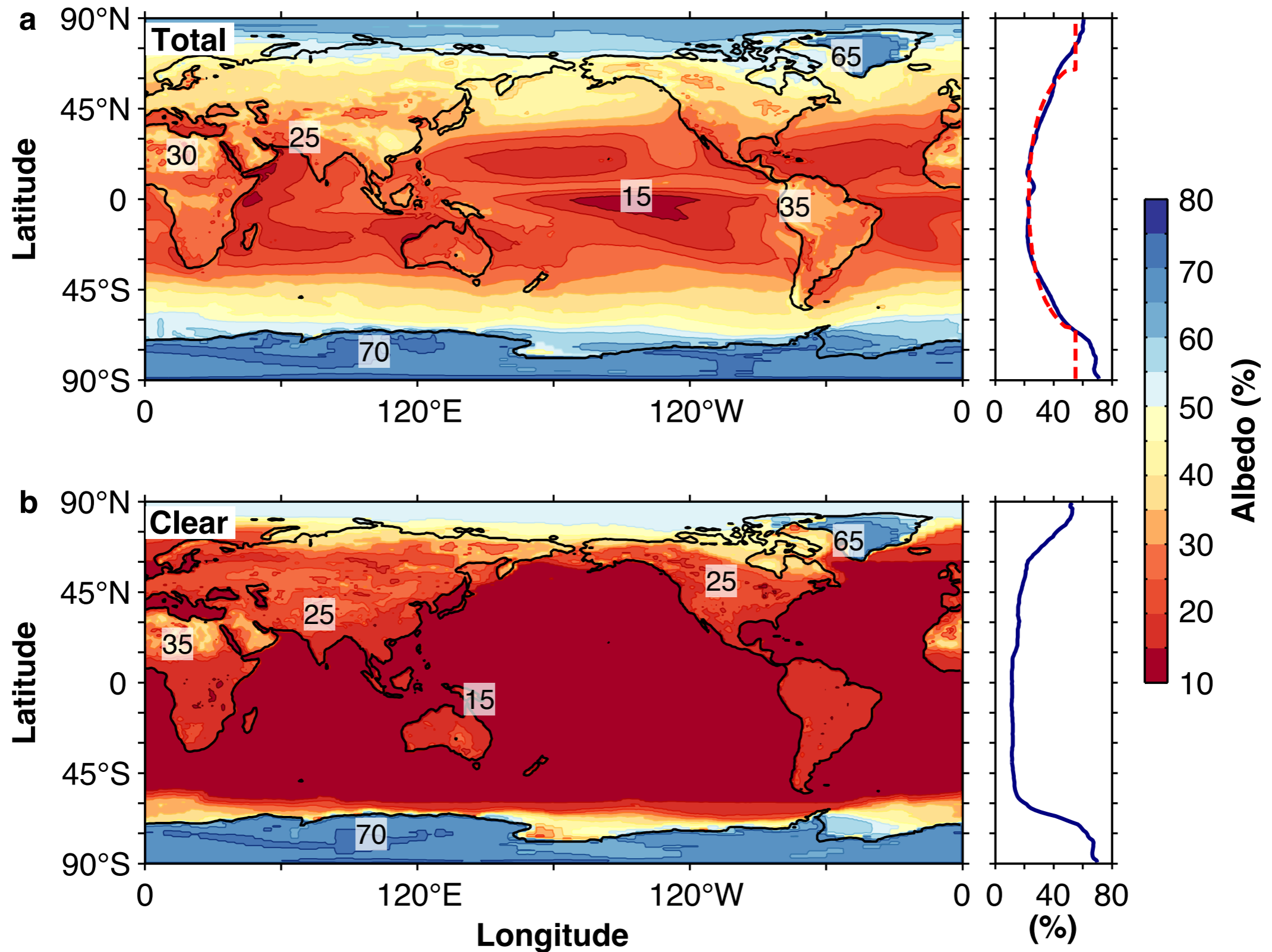
EM spectrum



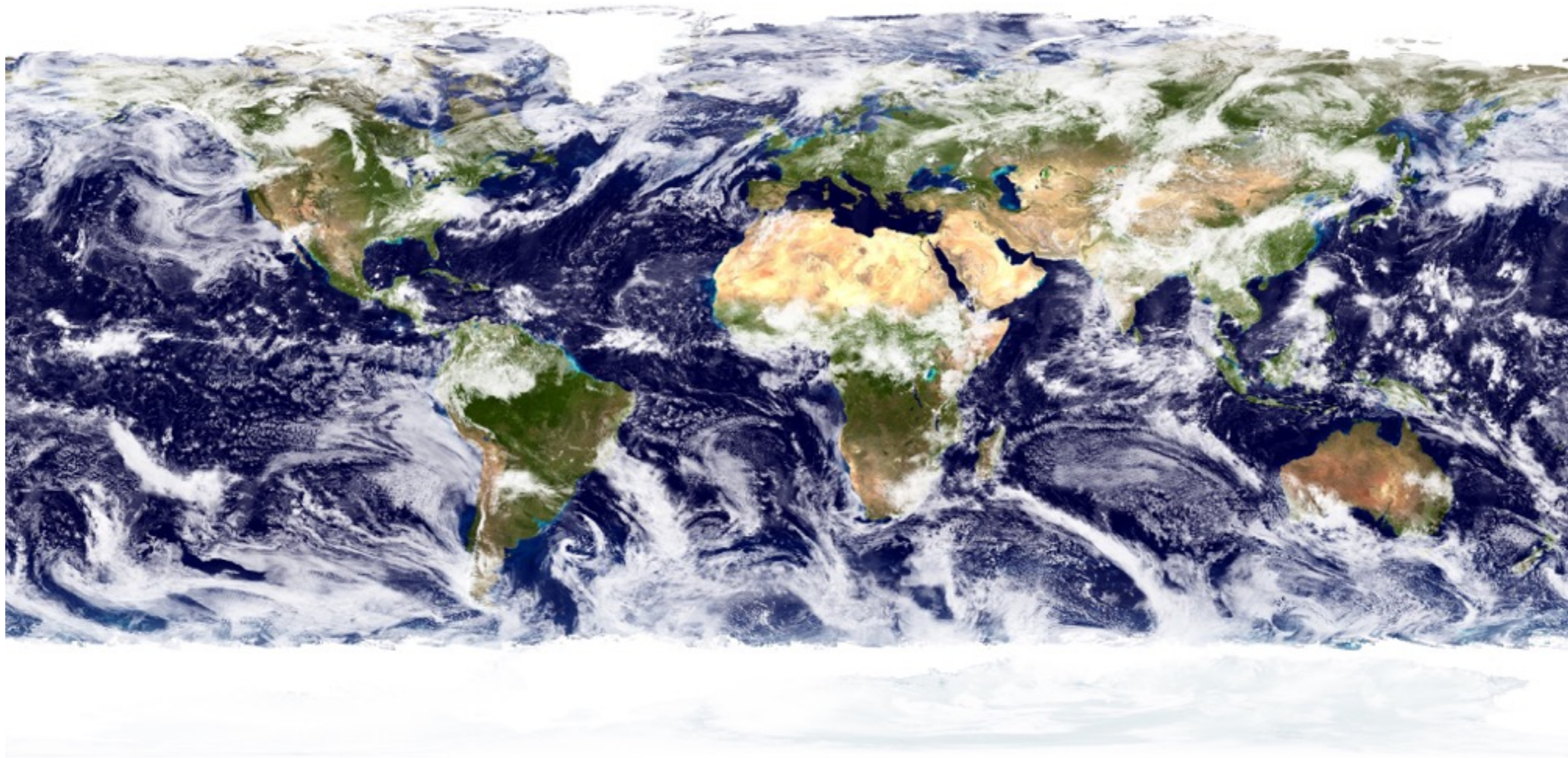
Solar spectrum



TOA albedo



Visible Earth



(Image credit: NASA)

Terrestrial spectrum

