

Figuras clase Balance de radiación de la Tierra

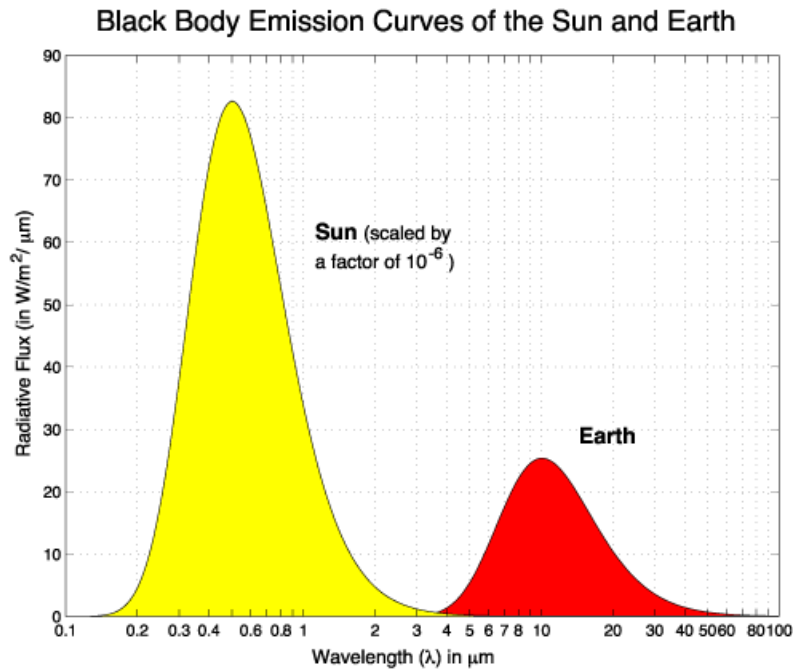


Figura 1. Curvas de emisión de cuerpo negro para el Sol y la Tierra.

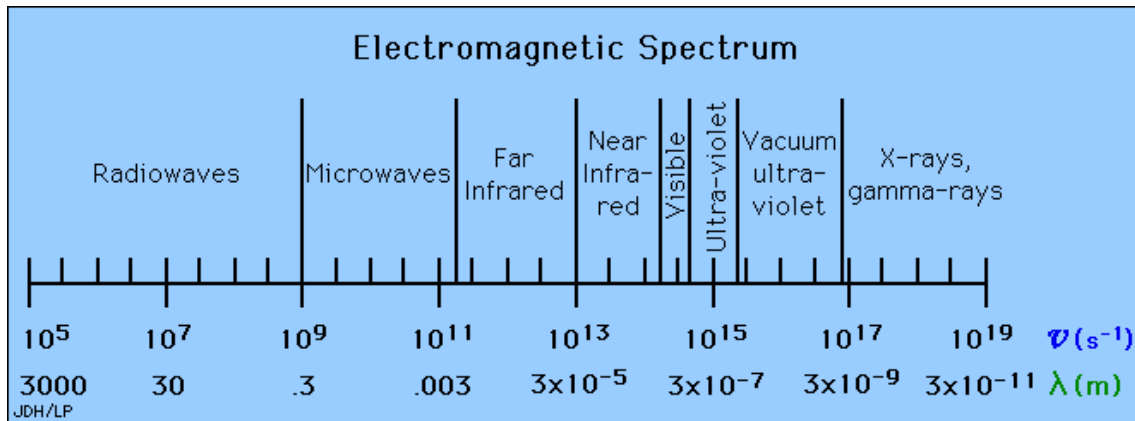


Figura 2. Espectro electromagnético.

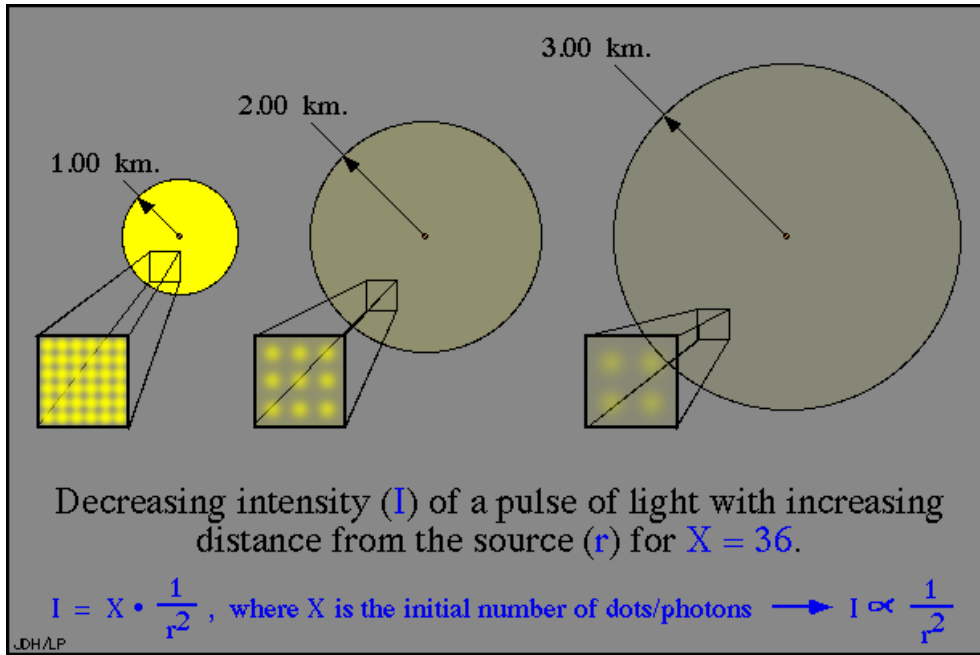


Figura 3. Dispersión de la radiación desde una fuente puntual.

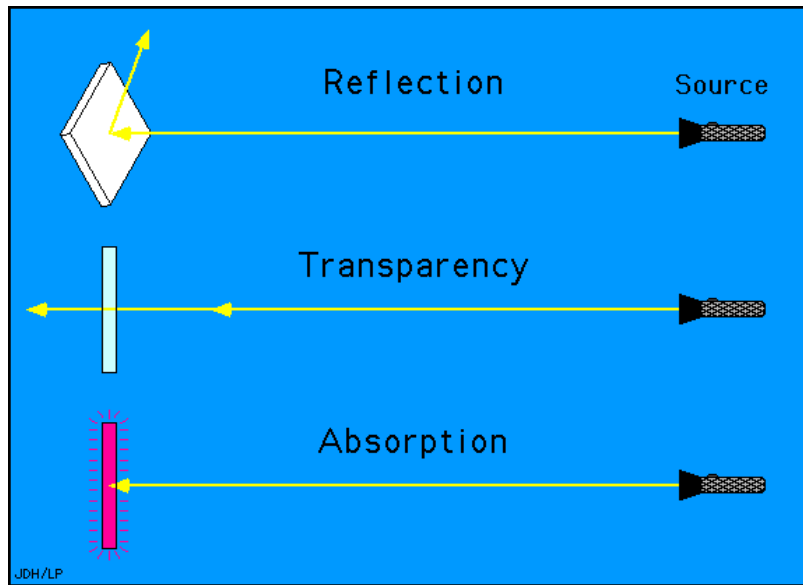


Figura 4. Ilustración de los procesos de reflexión, absorción y transparencia sufridos por la radiación electromagnética cuando interactúa con la materia.

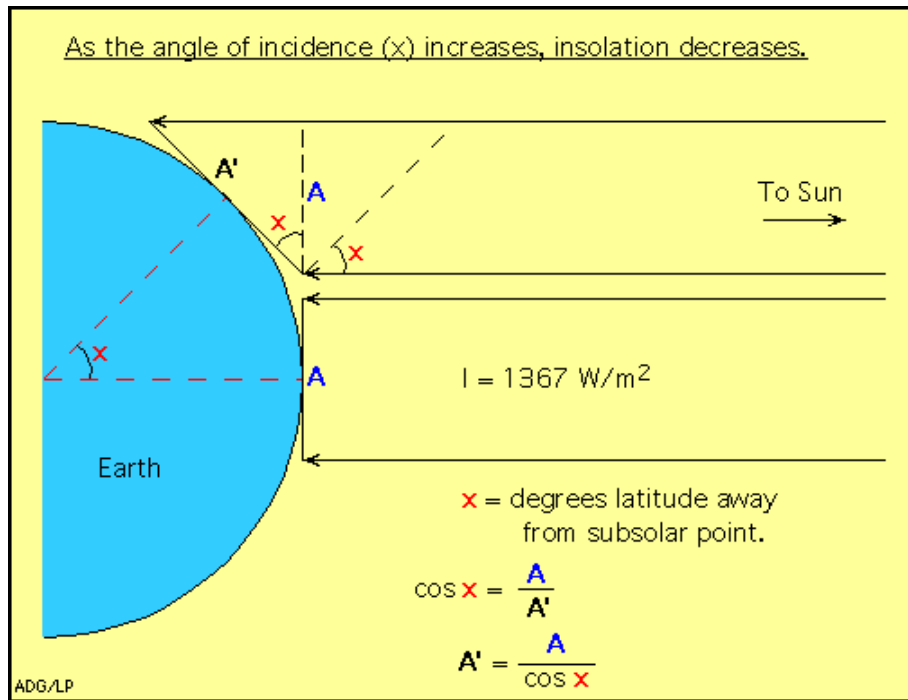


Figura 5. Relación entre la energía solar incidente y la forma de la Tierra.

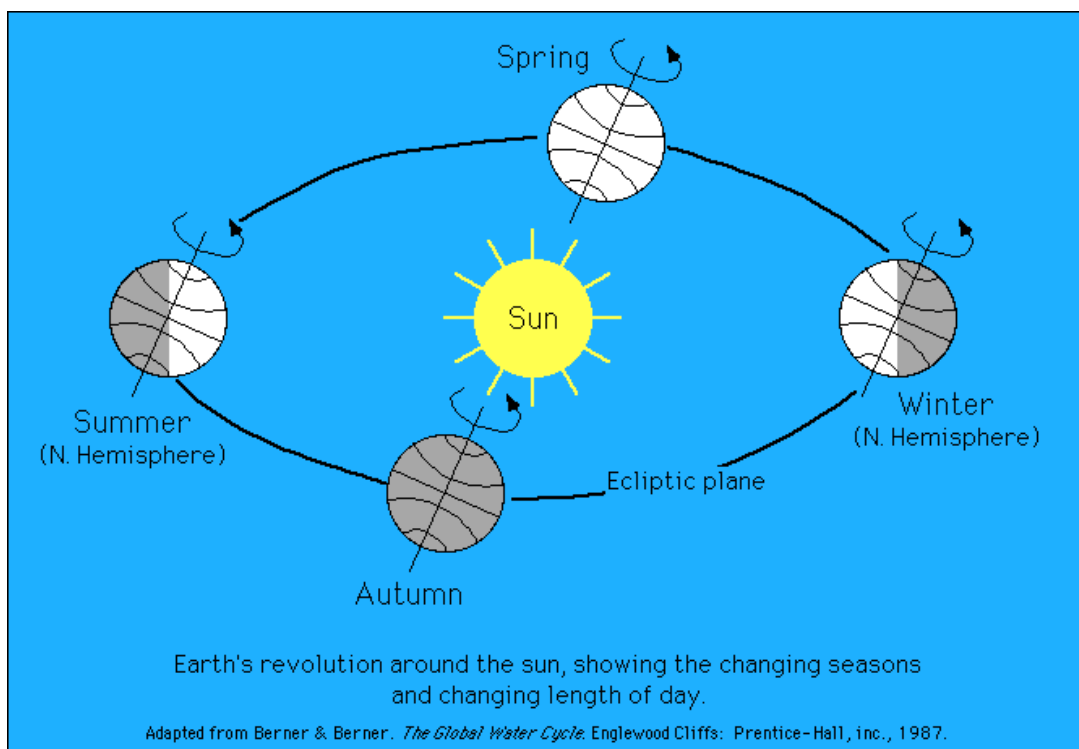


Figura 6. Inclutación del eje de la Tierra respecto del plano de su órbita y estaciones.

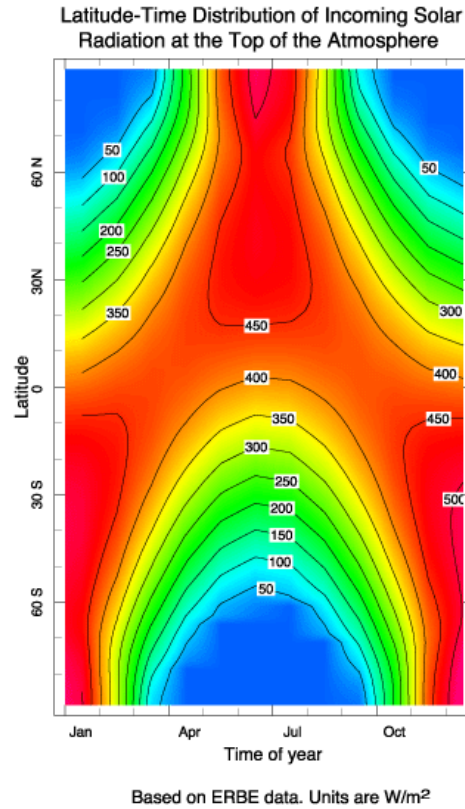


Figura 7. Radiación media diaria entrante en el tope de la atmósfera en función de la latitud y la época del año

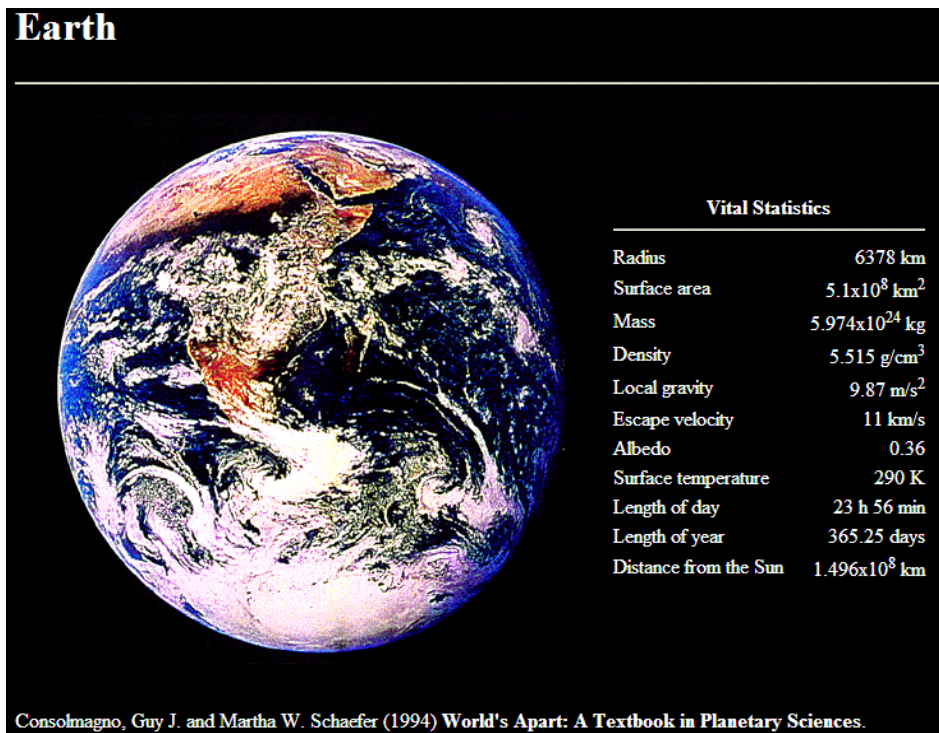


Figura 8. La Tierra desde el espacio.

**COMPOSITION OF EARTH'S ATMOSPHERE
(BY NUMBER OF MOLECULES, %)**

Major constituents:

N₂ (78.1)	O₂ (20.9)
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Active minor constituents:

H ₂ O (0.48)	CO ₂ (0.035)	O ₃ (0.000007)
CH ₂ (0.00017)	N ₂ O (0.00003)	CFC's (0.00000014)
H ₂ O liq.+ice (0.002)	aerosols (0.00000002)	

Inactive minor constituents:

Ar (0.93)	Ne (0.0018)
He (0.00052)	Kr (0.00010)

Figura 9. Composición de la atmósfera

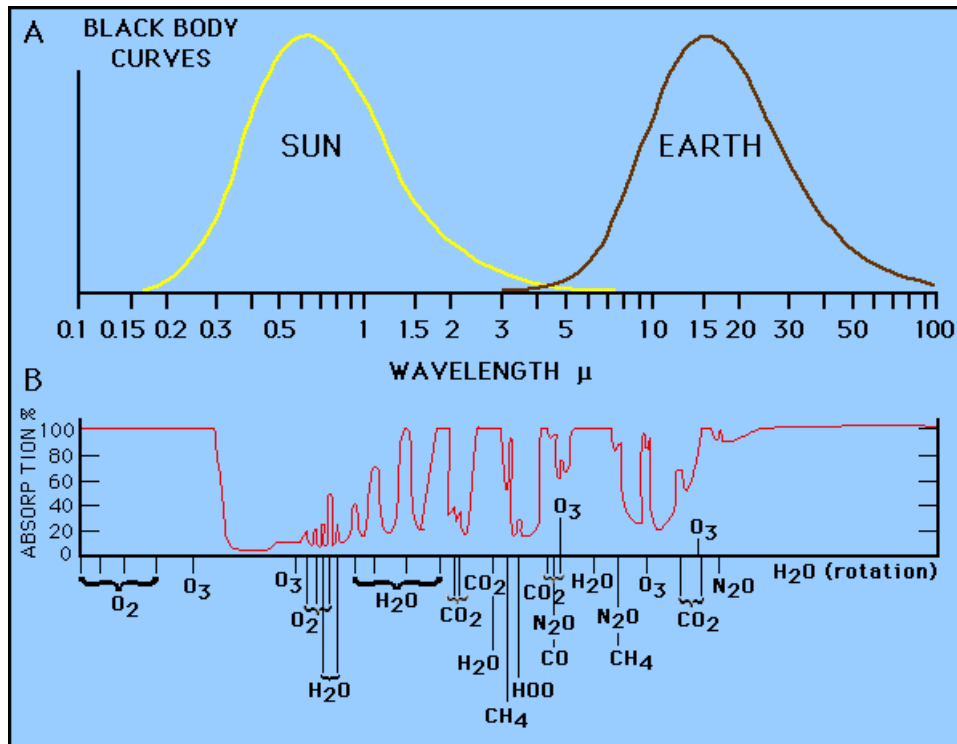
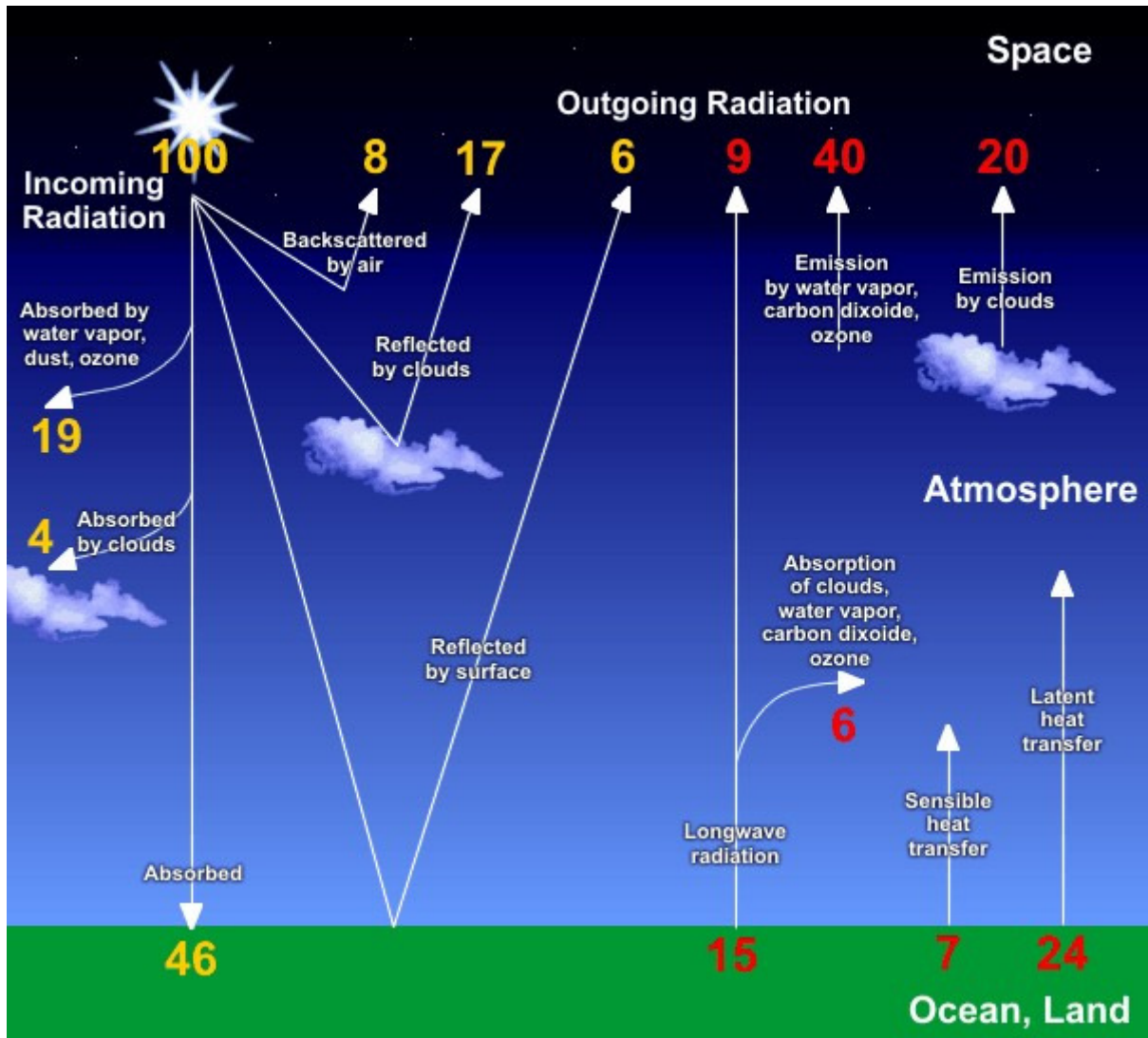


Figura 10. Absorción de radiación por los gases que componen la atmósfera (abajo) y espectro de radiación del Sol y la Tierra (arriba).



	Concentration		Annual rate of increase	Atmospheric lifetime (years)	GWP** (100 years)	Main sources (human activities)
	Current	Pre-industrial (~1700s)				
CO₂	370 ppmv	288 ppmv	0.4%	50–200	1	Fossil fuels burning (oil, coal and gas) Power stations Forest clearing Cement manufacture
Methane	1720 ppbv	850 ppbv	0.6%	12	21	Ruminant livestock Land-fills Burning vegetation Coal mines Natural gas losses
Nitrous oxide	312 ppbv	285 ppbv	0.25%	120	310	Clearing and burning of vegetation Use of fertilisers Industrial processes
CFC-11**	260 pptv	0	0	50	4500	largely phased-out

Sources: CSIRO, Intergovernmental Panel on Climate Change, Australian Greenhouse Office

ppmv = parts per million by volume; ppbv = parts per billion by volume; pptv = parts per trillion by volume

GWP* global warming potential – the total impact over time of adding a unit of gas to the atmosphere

** CFC-11 is one of a number of artificial gases that have a greenhouse effect.

