

# BALANCE ENERGÉTICO

## Radiación Solar

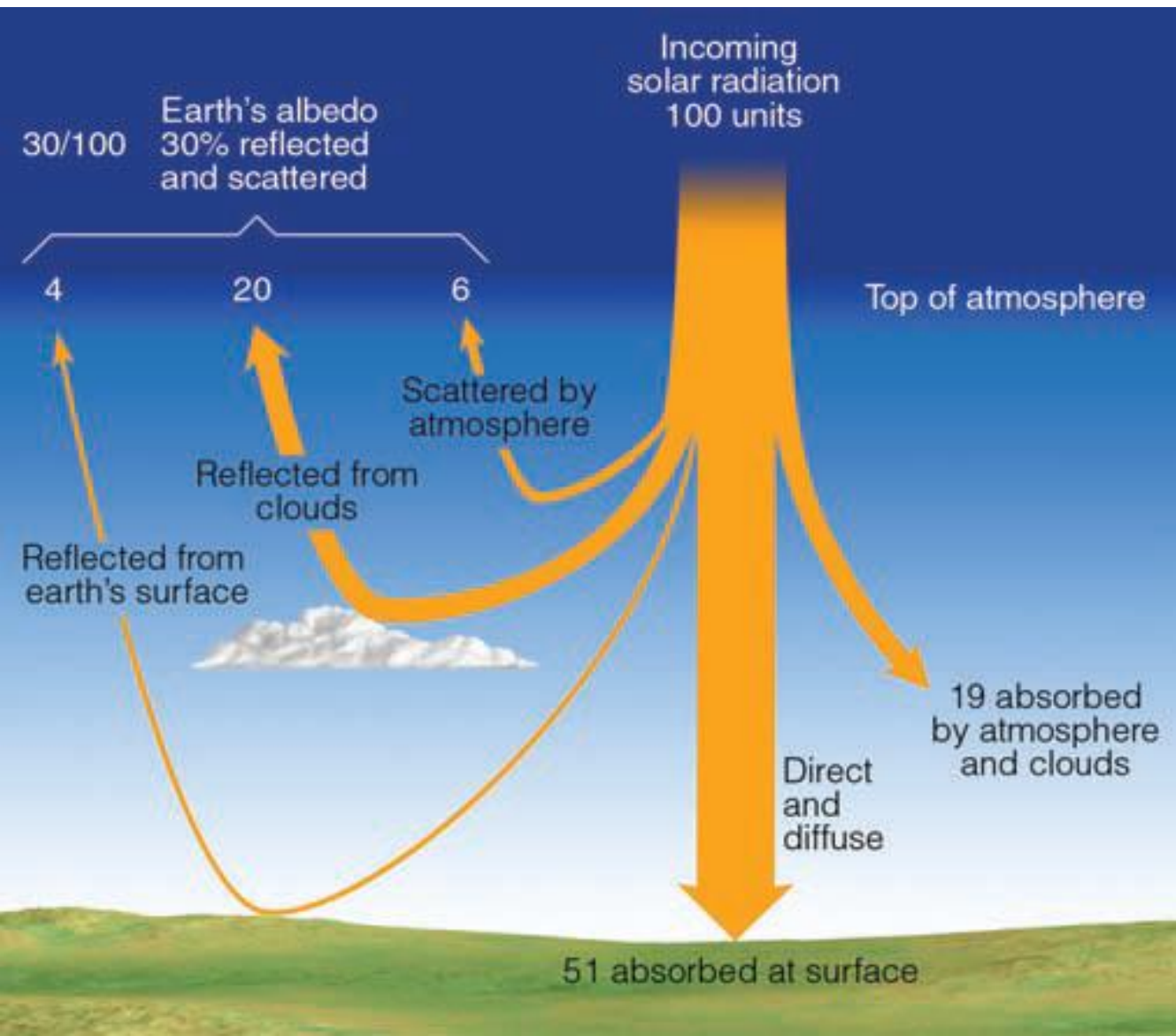
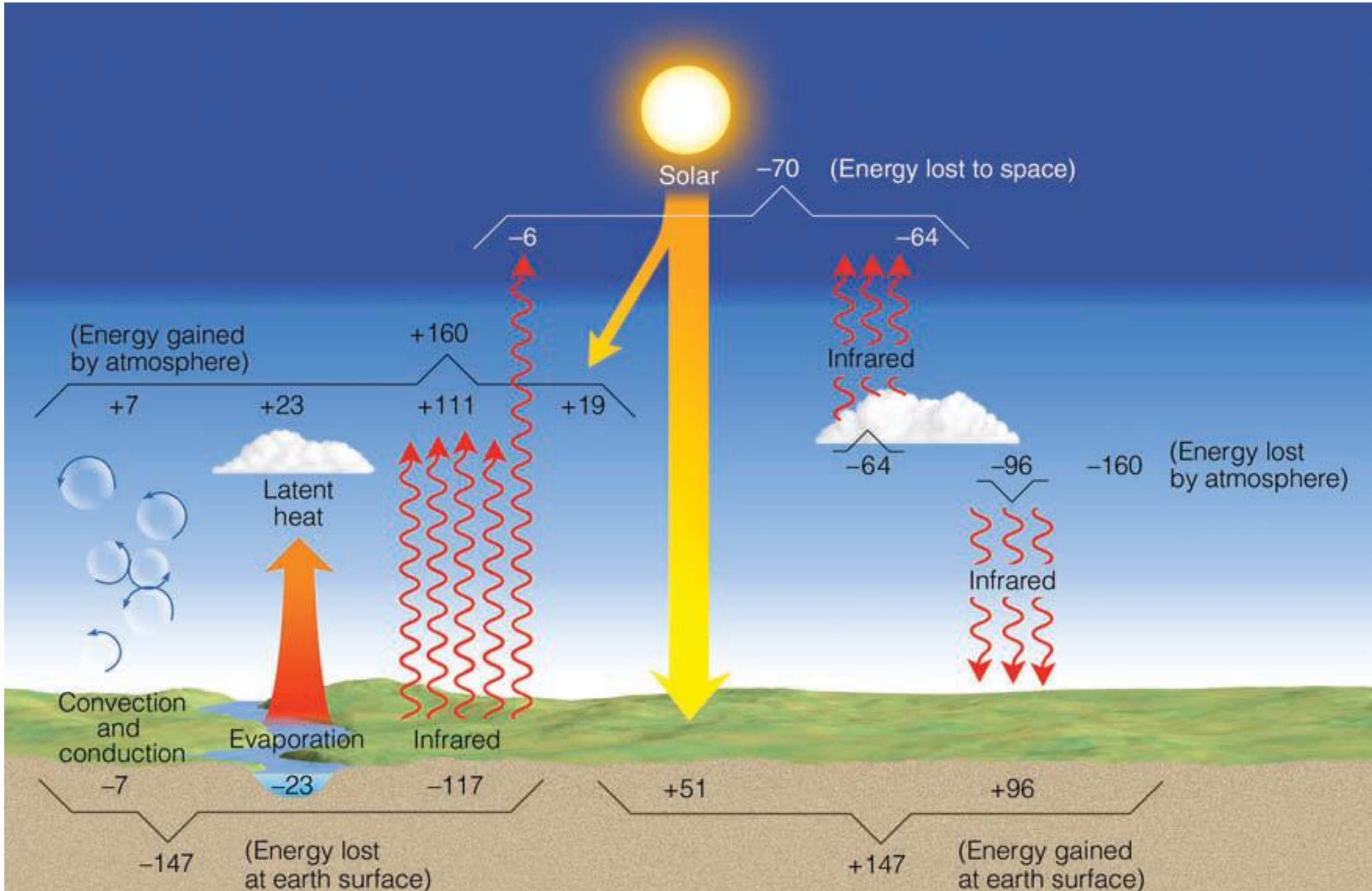


TABLE 2.2 Typical Albedo of Various Surfaces

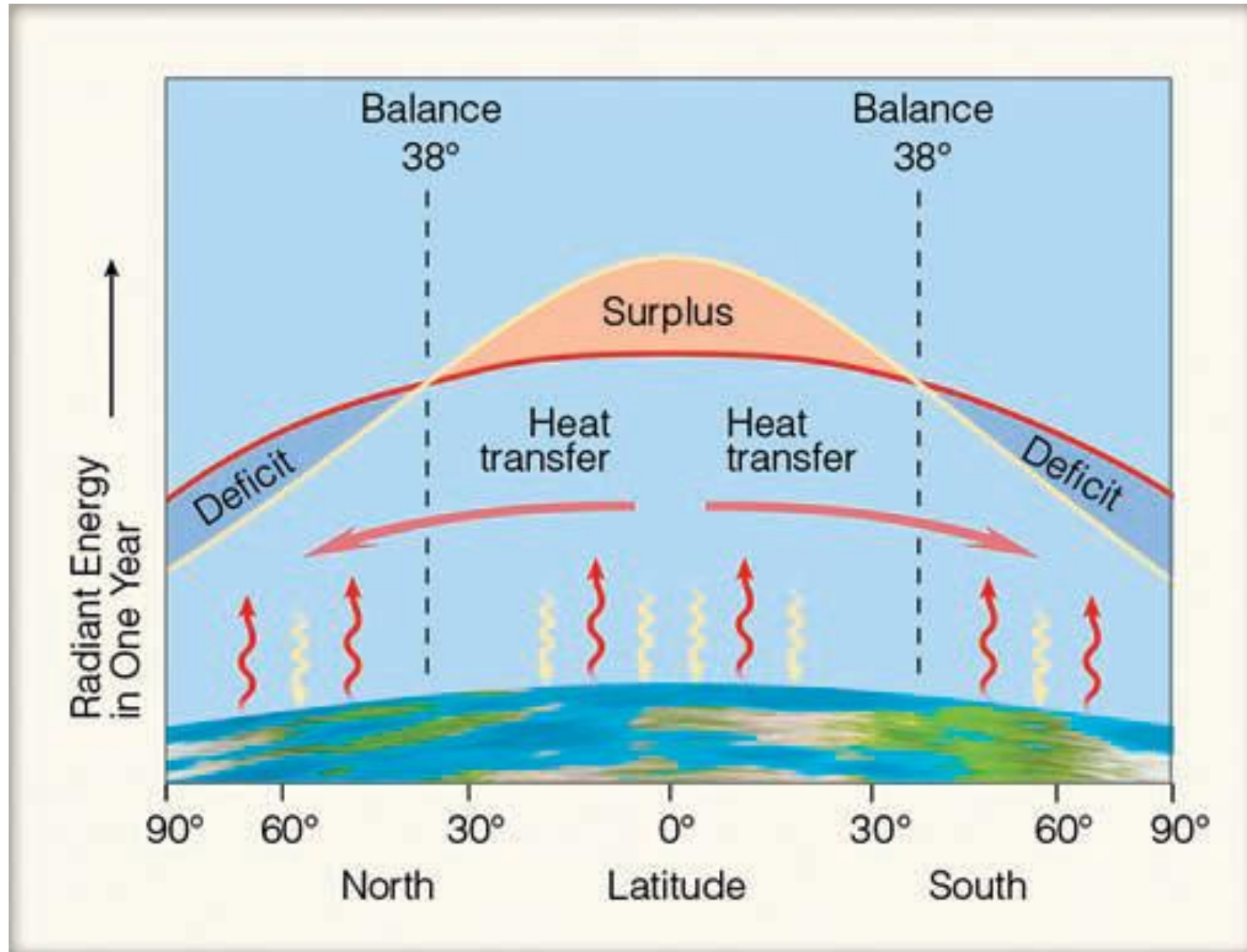
SURFACE	ALBEDO (PERCENT)
Fresh snow	75 to 95
Clouds (thick)	60 to 90
Clouds (thin)	30 to 50
Venus	78
Ice	30 to 40
Sand	15 to 45
Earth and atmosphere	30
Mars	17
Grassy field	10 to 30
Dry, plowed field	5 to 20
Water	10*
Forest	3 to 10
Moon	7

\*Daily average.

# BALANCE ENERGÉTICO (2)



# BALANCE ENERGÉTICO (3)



# COMPOSICIÓN

■ TABLE 1.1 Composition of the Atmosphere near the Earth's Surface

PERMANENT GASES			VARIABLE GASES			
Gas	Symbol	Percent (by Volume) Dry Air	Gas (and Particles)	Symbol	Percent (by Volume)	Parts per Million (ppm)
Nitrogen	N <sub>2</sub>	78.08	Water vapor	H <sub>2</sub> O	0 to 4	
Oxygen	O <sub>2</sub>	20.95	Carbon dioxide	CO <sub>2</sub>	0.039	390*
Argon	Ar	0.93	Methane	CH <sub>4</sub>	0.00017	1.7
Neon	Ne	0.0018	Nitrous oxide	N <sub>2</sub> O	0.00003	0.3
Helium	He	0.0005	Ozone	O <sub>3</sub>	0.000004	0.04**
Hydrogen	H <sub>2</sub>	0.00006	Particles (dust, soot, etc.)		0.000001	0.01–0.15
Xenon	Xe	0.000009	Chlorofluorocarbons (CFCs)		0.00000002	0.0002

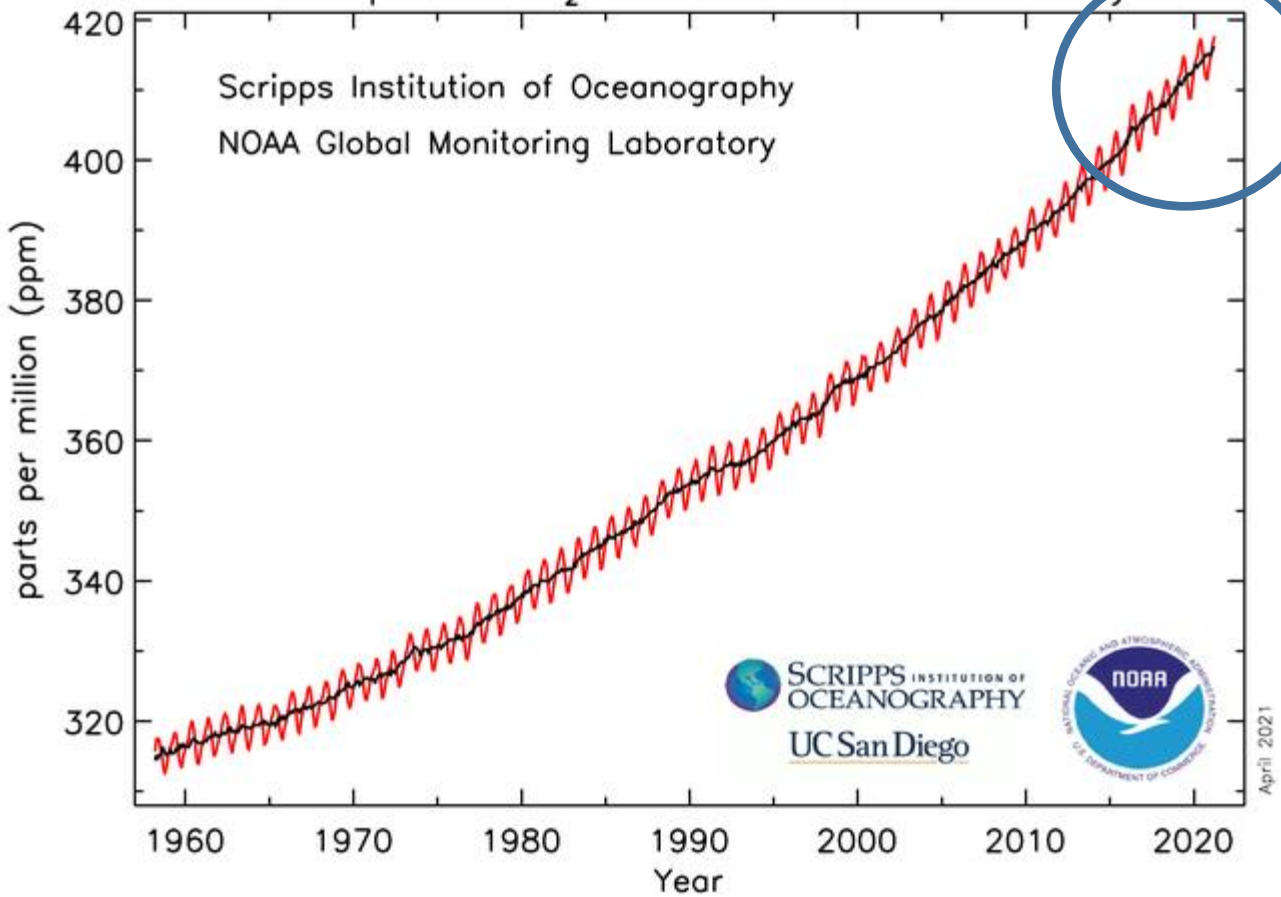
\*For CO<sub>2</sub>, 390 parts per million means that out of every million air molecules, 390 are CO<sub>2</sub> molecules.

\*\*Stratospheric values at altitudes between 11 km and 50 km are about 5 to 12 ppm.

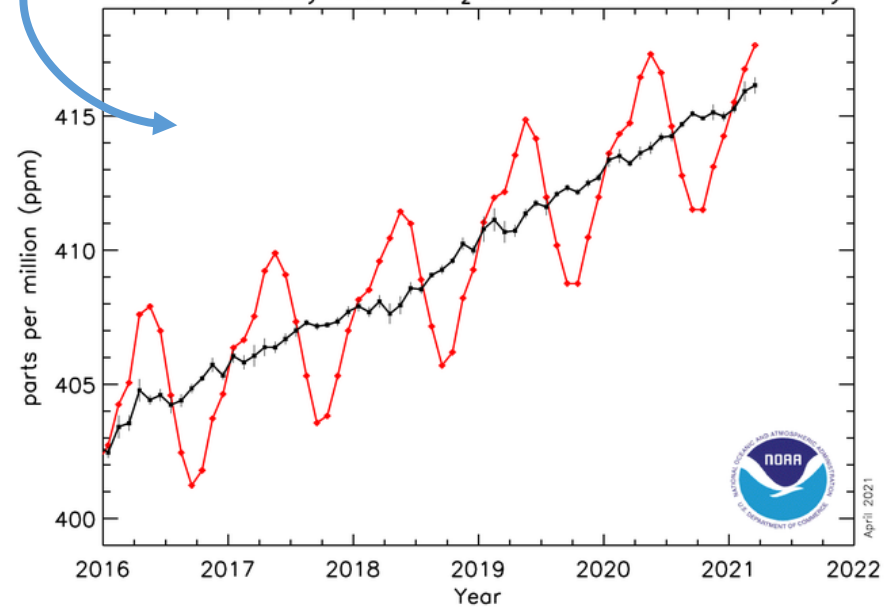
**¿ Cuáles son los Gases de Efecto Invernadero (GEI)?**

# CO<sub>2</sub>

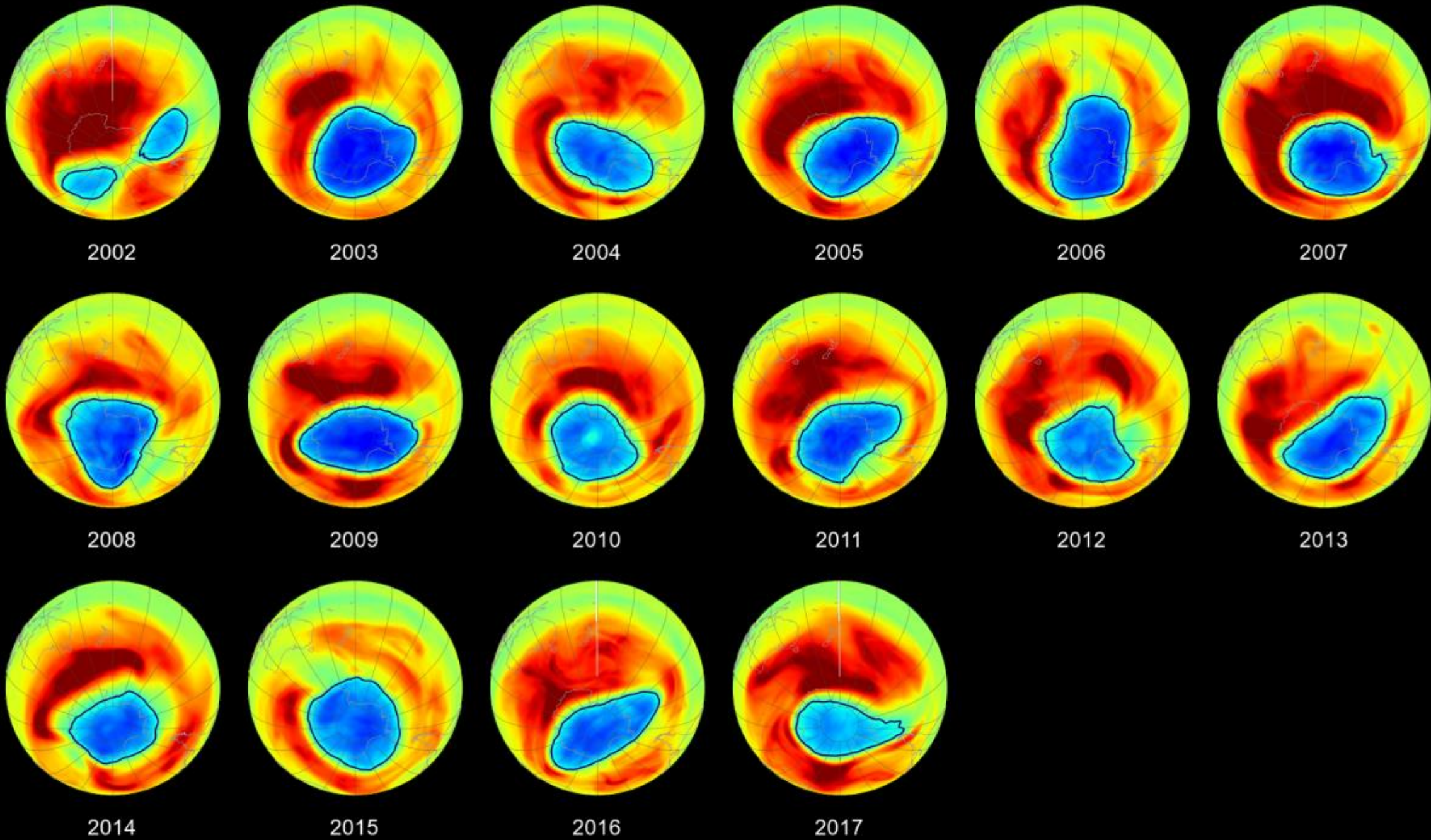
## Atmospheric CO<sub>2</sub> at Mauna Loa Observatory



## Recent monthly mean CO<sub>2</sub> at Mauna Loa Observatory



# “Agujero” de OZONO



# “Agujero” de OZONO

O3 Hole Size Fraction 2002-2017

