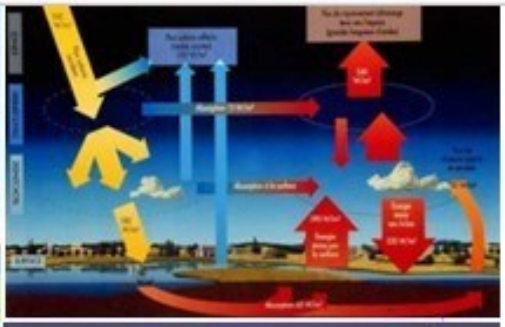
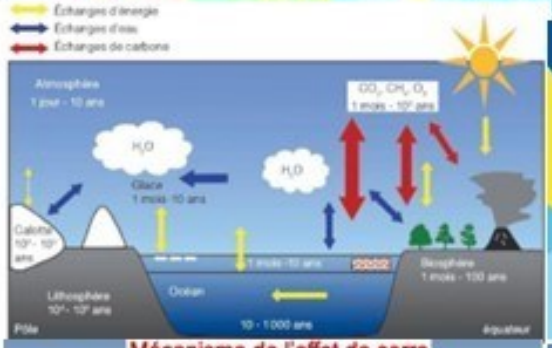
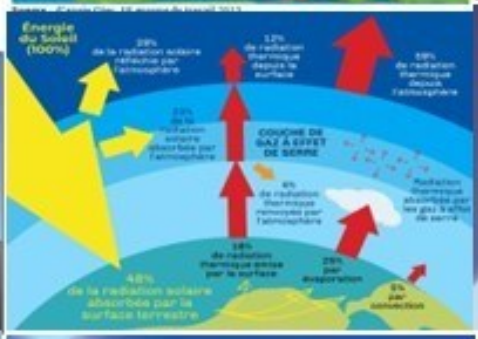
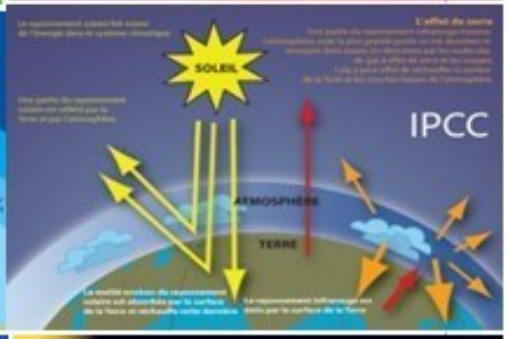
L'EFFET DE SERRE
rayons solaires
rayons infrarouges




Échanges d'énergie
Échanges d'eau
Échanges de carbone
Atmosphère
Glace
Calotte
Lithosphère
Océan
Biosphère
Pôle
équateur

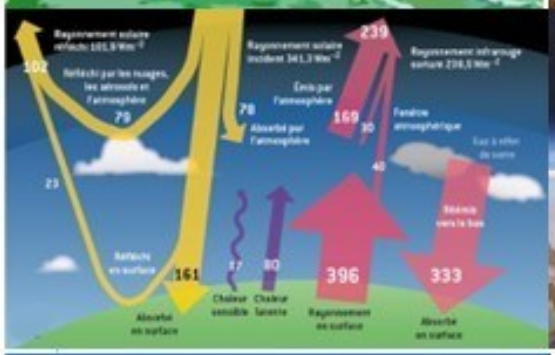

Énergie du Soleil (100%)
COUCHE DE GAZ À EFFET DE SERRE
48% de la radiation solaire absorbée par la surface terrestre


SOLEIL
IPCC
ATMOSPHÈRE
TERRE

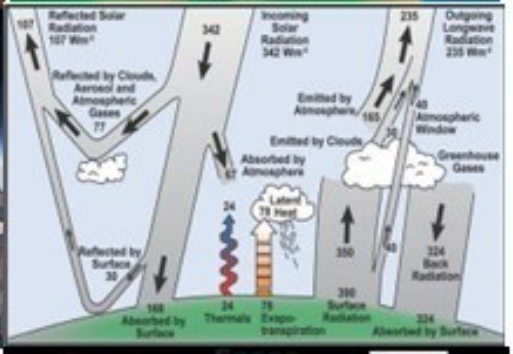
Mécanisme de l'effet de serre
Soleil
Gaz à effet de serre

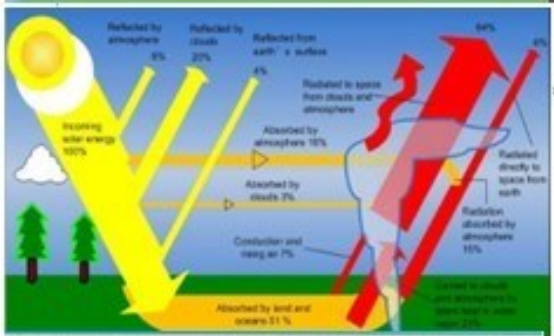
340
100
239
79
185
24
161
84
20
398
342

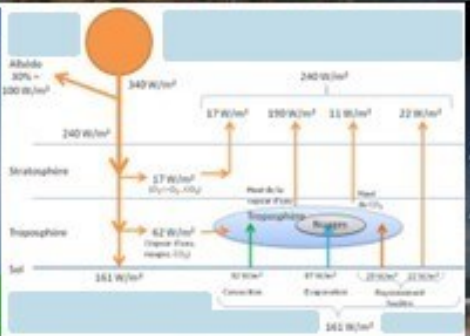
earth's energy budget

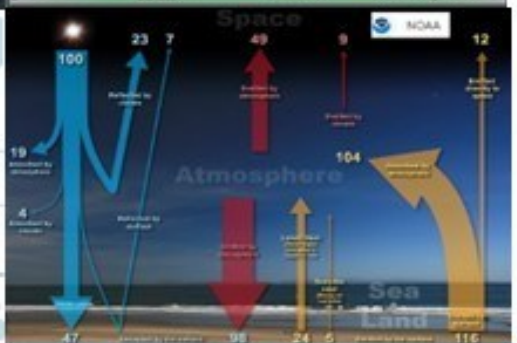

239
102
79
78
169
161
396
333

L'EFFET DE SERRE

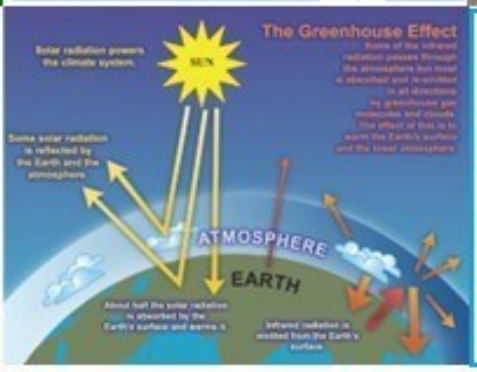

Reflected Solar Radiation
Incoming Solar Radiation
Outgoing Longwave Radiation
Reflected by Clouds, Aerosol and Atmospheric Gases
Emitted by Atmosphere
Emitted by Clouds
Absorbed by Atmosphere
Greenhouse Gases
Reflected by Surface
Absorbed by Surface
Thermals
Evapo-transpiration
Surface Radiation
Back Radiation
Absorbed by Surface

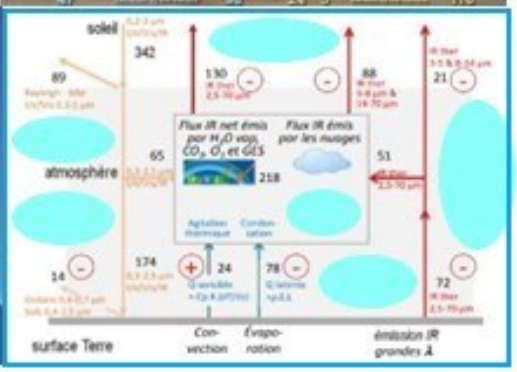



Stratosphère
Troposphère
Sol


Space
NOAA
Atmosphere
Sea
Land

Rayonnement solaire
Rayonnement réfléchi
Rayonnement sortant
Aérosols
Nuages
Ozone
Gaz à effet de serre/Grands aérosols
Évapotranspiration
Rayonnement absorbé par la surface
Couleur de l'océan
Absorption nette


The Greenhouse Effect
SUN
ATMOSPHERE
EARTH


soleil
atmosphère
surface Terre
Convection
Évaporation
émission IR grandes λ