

Full Earth's System Interactions

PRIMARY COSMIC DRIVERS (ENERGY INPUT 100%)

≈95.5%

H₂O ENTHALPY MEDIATOR

ARTIFICIAL

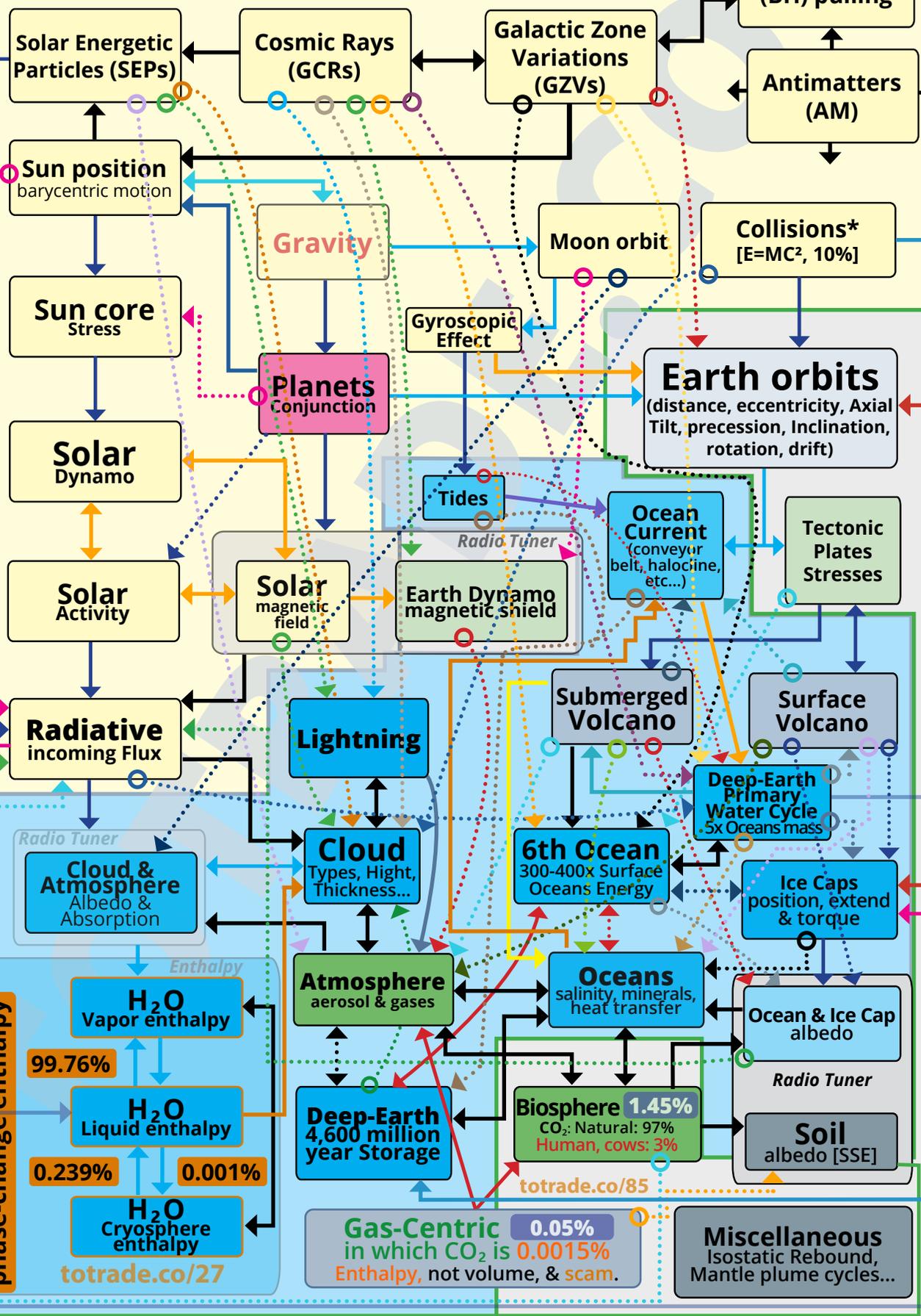
VENUS

MARS

MOON DYNAMICS

≈3.00%

SOLID STATE ENTHALPY (SSE)



* Include impacts from asteroids, meteoroids, cometary fragments, and any macroscopic and subatomic mass.

Legend: —> Solid = Direct, ○...> Dotted = Indirect

Unsettled Science

Earth Energy System: totrade.co/ees



totrade.co/w6

~100 km Kármán line: ~0.000 000 1 atm

Weather is Driven By **Clausius-Clapeyron** Relation

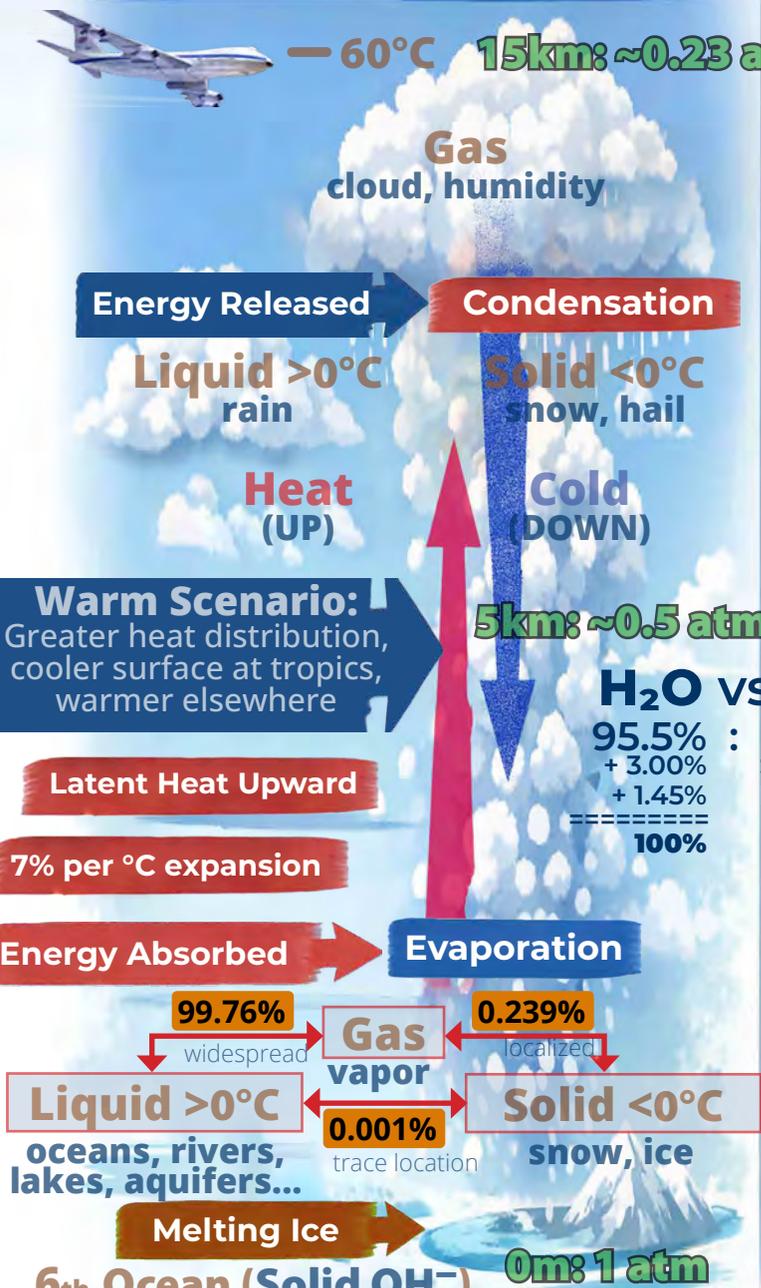


$$H = U + pV$$

Enthalpy = Internal Energy + Expansion Work

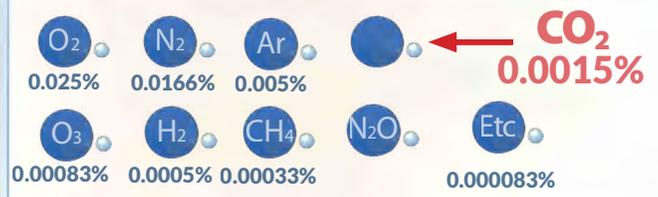
Water's Behavior in the Atmosphere

Other Gases' Behavior in the Atmosphere



No Phase Change

% = Thermal Influence, not volume.



Small Expansion Work



Sensible Heat Only

- Limited Energy Transfer (sensible 20/80 latent)

H₂O vs Other Gases

95.5% : 0.05%
 + 3.00% Solid State Enthalpy (SSE)
 + 1.45% Biosphere Mix
 =====
 100%

Outcome

TOTRADE™
FEWS SYSTEM
 Food•Energy•Water•Space

Thermal Buffer Only

- Limited Enthalpy Transfer (other gases: 0.05%)

H₂O: Thermal Elevator



ATMOSPHERE VOLUME

N ₂	~ 78%
O ₂	~ 21%
Ar	~ 0.93%
H ₂ O (Variable)	up to 4%
CO ₂	~ 0.04%

H₂O vs CO₂
600,000 : 1

OCEAN MASS
 Water (H₂O) > 96.5%
 CO₂ < 0.002%

Below sea avg Pressure
 -11km: 1,100 atm, Mantle: 230,000 atm