

Full Earth's System Interactions

PRIMARY COSMIC DRIVERS (ENERGY INPUT 100%)

≈95.5%

H₂O ENTHALPY MEDIATOR

ARTIFICIAL

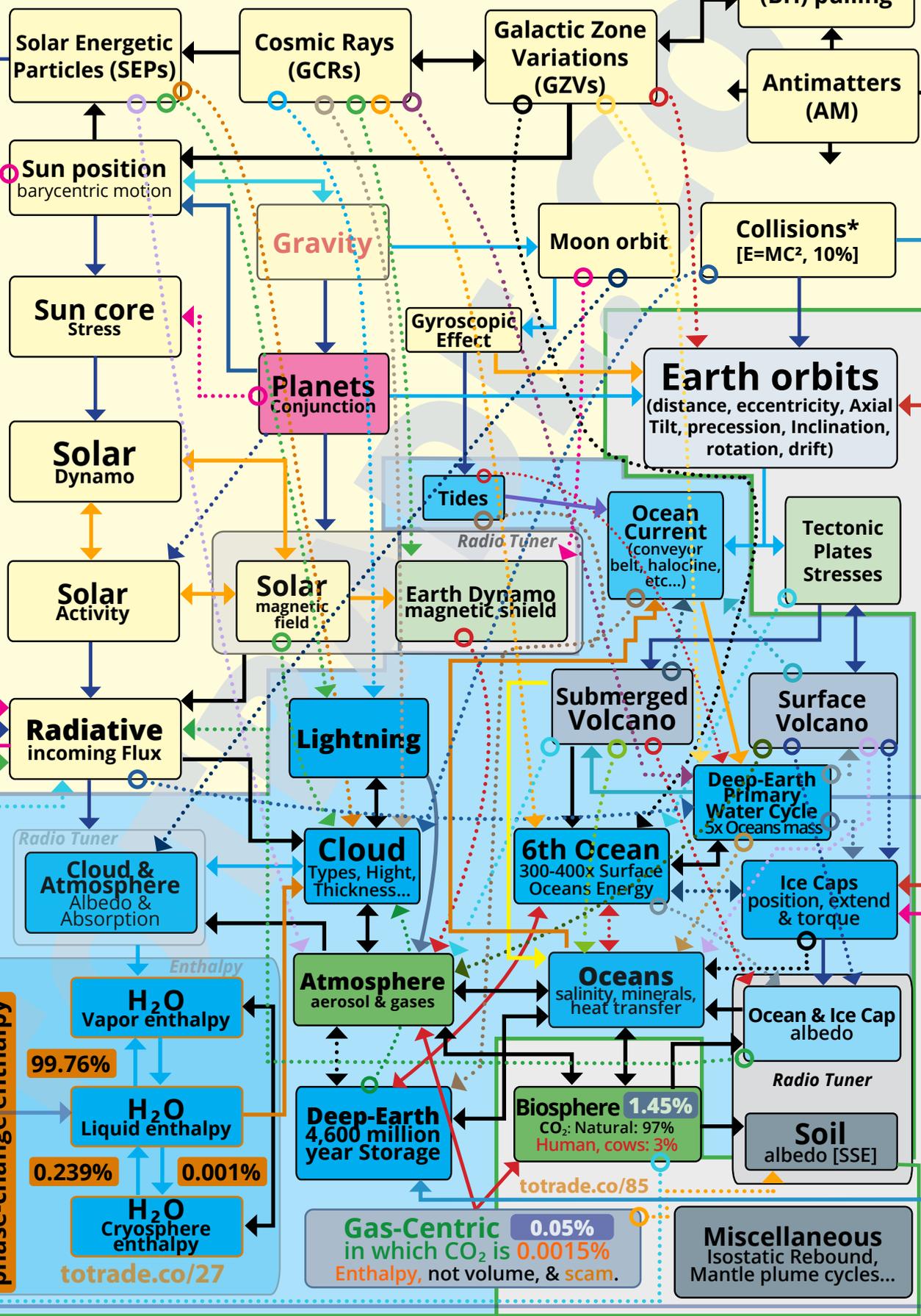
VENUS

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

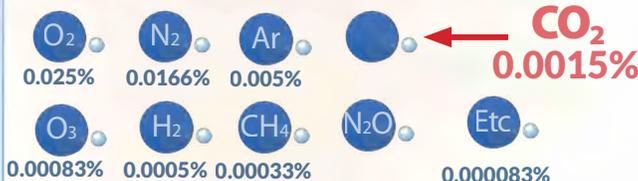
Other Gases' Behavior in the Atmosphere

— 60°C 15km: ~0.23 atm

No Phase Change

% = Thermal Influence, not volume.

Gas cloud, humidity



Energy Released

Condensation

Liquid >0°C rain

Solid <0°C snow, hail

Heat (UP)

Cold (DOWN)

Small Expansion Work



Sensible Heat Only

▶ Limited Energy Transfer (sensible 20/80 latent)

Warm Scenario:

Greater heat distribution, cooler surface at tropics, warmer elsewhere

5km: ~0.5 atm

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

Latent Heat Upward

7% per °C expansion

Thermal Buffer Only

▶ Limited Enthalpy Transfer (other gases: 0.05%)

Energy Absorbed

Evaporation

99.76%

widespread

Gas vapor

0.239%

localized

Solid <0°C snow, ice

Liquid >0°C oceans, rivers, lakes, aquifers...

0.001% trace location

Melting Ice

6th Ocean (Solid OH⁻)
230,000 atm, 1600-1900°C
~300-400 times Surface Enthalpy
Phase change on standby, totrade.co/6

0m: 1 atm

H₂O: Thermal Elevator

Pacific & Clouds
totrade.co/p15b

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