

Full Earth's System Interactions

PRIMARY COSMIC DRIVERS (ENERGY INPUT 100%)

≈95.5%

H₂O ENTHALPY MEDIATOR

ARTIFICIAL

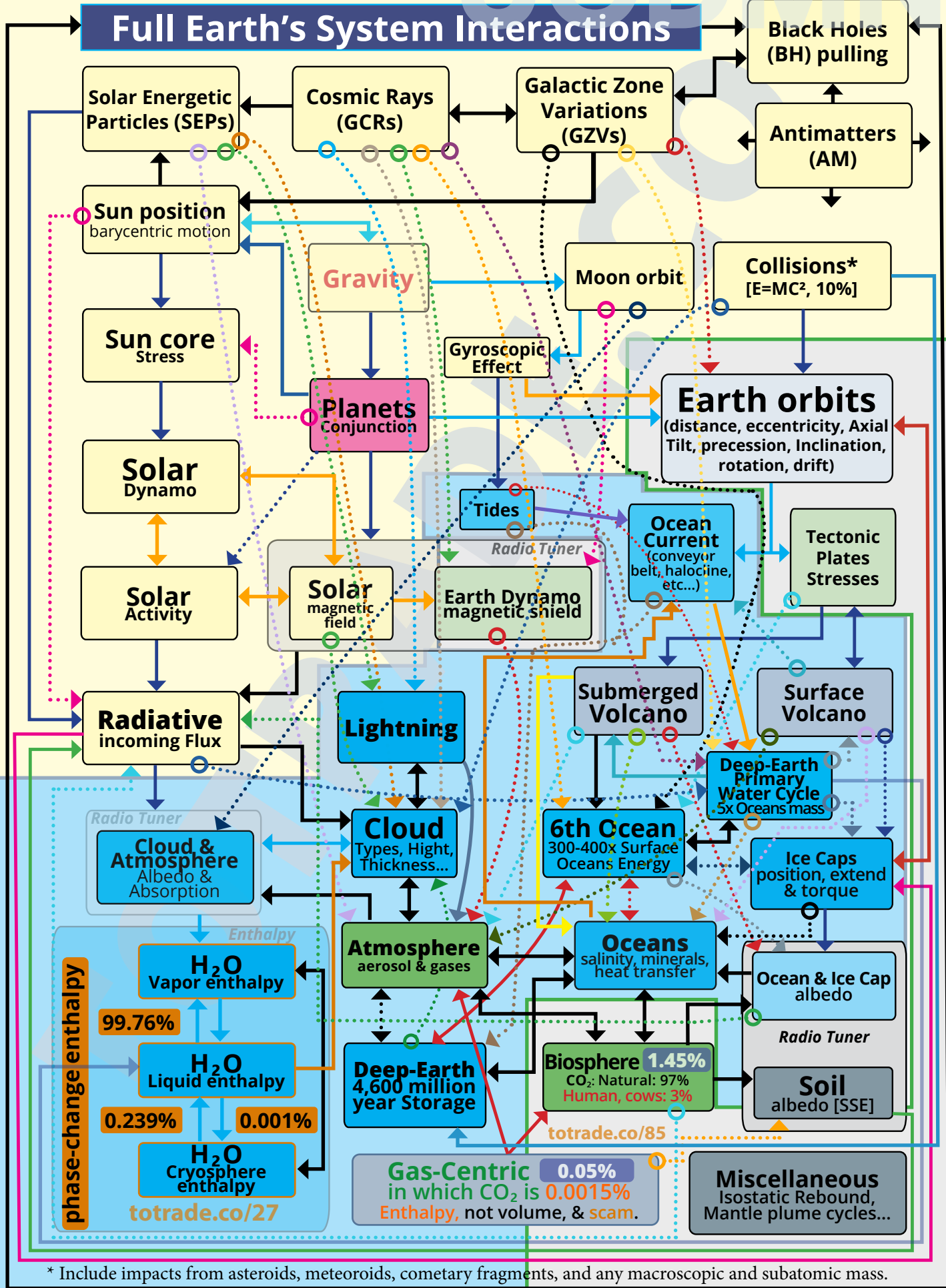
VENUS

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

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~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

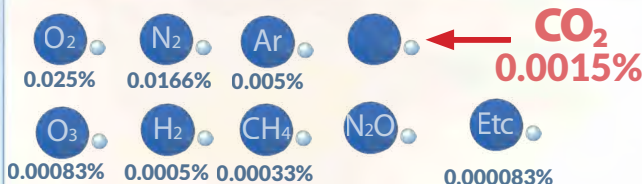
Other Gases' Behavior in the Atmosphere

— 60°C 15km: ~0.23 atm

No Phase Change

% = Thermal Influence, not volume.

Gas cloud, humidity



Small Expansion Work



Sensible Heat Only

▶ Limited Energy Transfer (sensible 20/80 latent)

Warm Scenario:
Greater heat distribution, cooler surface at tropics, warmer at temperate

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

Thermal Buffer Only

▶ Limited Enthalpy Transfer (other gases: 0.05%)

H₂O: Thermal Elevator

Pacific & Clouds
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ATMOSPHERE VOLUME

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

OCEAN MASS

Water (H₂O) > 96.5%
CO₂ < 0.002%

H₂O vs CO₂
600,000 : 1

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



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