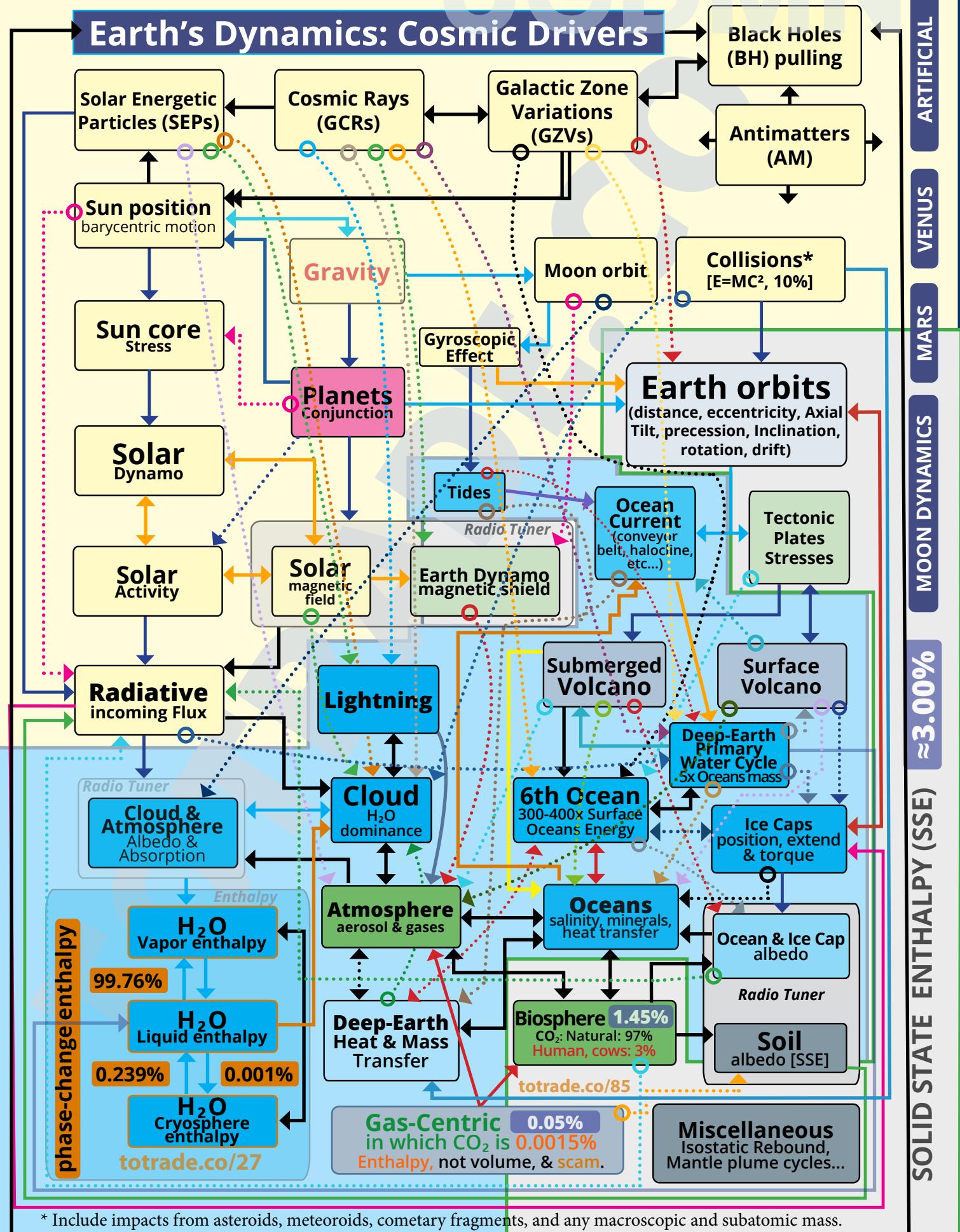


Earth's Dynamics: Cosmic Drivers



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

④ **Legend:** → Solid = Direct.

○.....→ Dotted = Indirect

Unsettled Science

Web

Cosmic Energy Budget at Earth Scale

True Limitless Clean Energy

Solar Energy

20% \approx 173,000 TW

Other Cosmic Drivers

70% \approx 605,000 TW

Collisions

10% \approx 86,500 TW

Cosmic Rays &
High-Energy Particles

Meteoroids & Impacts

Earth's Heat

\approx 50 TW

- Atmosphere Regulates Timing
- Water Stores & Buffers Energy
- Earth Acts as a Charged System

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FEWS SYSTEM
Food • Energy • Water • Space

ToC

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UCDMN Earth System as a Coupled Enthalpy Engine

Energy Stored, Transported, & Released Across Air, Water, Ice, & Rock



► Abrupt Deep Earth Heat Overwhelms Climate System

- Intense Convection & Extreme Weather
- Rapid Oceanic Disruption
- Historical Flood Events

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FEWS SYSTEM**
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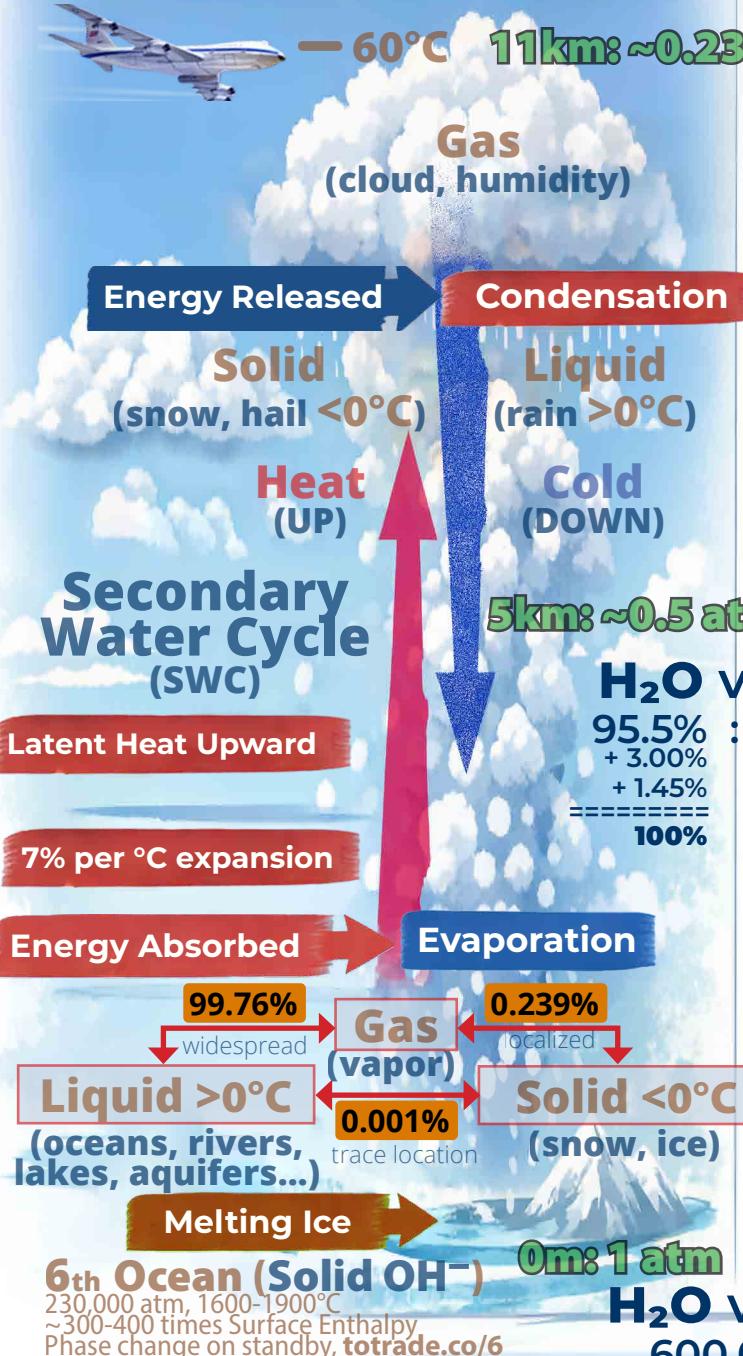


~100 km Kármán line: ~0.000 000 1 atm
Weather is Driven By **Clausius-Clapeyron Relation**

$$H = U + pV$$

Enthalpy Internal Energy Expansion Work

Water's Behavior in the Atmosphere



Other Gases' Behavior in the Atmosphere

► **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**

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► **Thermal Buffer Only**

► Limited Enthalpy Transfer (other gases: 0.05%)

► **H₂O:**
Thermal Elevator



H₂O vs CO₂
600,000 : 1

ATMOSPHERE VOLUME

H ₂ O (Variable)	0 to 4%
CO ₂	~ 0.04%
N ₂	~ 78%
O ₂	~ 21%
Ar	~ 0.93%

Short-lived forcing: Deep Earth Abrupt Enthalpy Release

Multimillenia Cosmic Waves

Ice Caps
Torque, Shift, Rotate.

6 days every ~12,000 years
“2012” is ~2036

Massive destruction and
flood across the planet

Food, Energy, Water, Space
Systems total destruction.

TO TRADE™
FEWS SYSTEM
Food•Energy•Water•Space

Cold Blast <80 °C

Hydrothermal blasts

Tsunami, extreme storms

6th Ocean = Solid OH⁻

230,000 atm, 1600-1900°C
~300-400 times Surface Enthalpy
Sudden Phase change, totrade.co/6

Cataclysm in Mythology

Flood narratives encode memories
of abrupt melt and ocean rise tied to
deep enthalpy release, totrade.co/c

► **Sixth Ocean Enthalpy Trigger**

- | Sea Level Benchmarks
- 150 m rise → ~0.04-0.06 %
- 200 m rise → ~0.05-0.09 %

Rapid Tectonic Shift

>1,200km/h
Eastward
¼ to ½ day



Preparedness ≠ belief

- One system against all risks.
- Always useful, regardless of risk.
- Use physics, not narratives.

Rapid phase change

Cold Blast <80 °C

Hydrothermal blasts

Tsunami, extreme storms

Quakes, Landslide

Sudden Heat Release

