

Slide 1



The Heavens Declare the Glory of God...
The Law of the Lord is Perfect, Restoring the Soul
Psalm 19

The Universe
IfMyPeople.us

Slide 2

The Universe
Putting Back the Awe of God's Creation
A Six-Part Series

1. Building Blocks
2. Goldilocks
3. To the Moon!
4. Our Neighborhood
5. Stars
6. Galaxies

Building Blocks

Why does ice float? Why does it matter? Why don't atoms (or the universe itself) scatter instead of forming marvelous structures that support life? The answers to these and other questions leaves little doubt they were designed by a intelligent, loving being to make a universe of order, design, and beauty.

Goldilocks

Not too hot, not too cold, this planet is just right. A LOT of things need to be just so to support life on earth, from heat, gravity, radiation and a raft of other things. Demonstrating Jesus' incredible intelligence and design makes short work of conventional science "just so" life-on-earth-by-accident stories.

To the Moon

Earth's moon is the source of light, bringer of tides & eclipses (and romance). Unlike other planets' moons, ours is unique in many ways. Ways that make life on earth possible

Our Neighborhood

Our tiny planet has a host of neighbors, big & small that provide beauty, awe, wonder, and protection!. See how God wisely placed these sentinels near our world and some fun facts about them.

Stars

The nuclear source of power and light for earth. Stars fill our sky at night and demonstrate only a God Wonders could make such a marvelous creation. Join us as learn how our very unique sun differs from most other stars created by God to bring us safe stable life.

Galaxies

Vast, almost unimaginably huge, these collections of strs and dust and other wonders pepper our vast, God-made universe with beauty, awe, and wonder.

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Be Like Newton:

- Come With a Curious Mind
- “Have You Ever Asked Yourself...”
- Aim: The Glory of God Not the Spotlight of Foolishness

Curious Mind: Don’t Take things for granted.

Have You Ever: Be child like in asking how and why etc.

Aim: Great are the works of the LORD; They are studied by all who delight in them. — Psalm 111:2 Tonight (and this series) is for worship.

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Last Time: God’s Laws of Nature

Laws of Chemistry
Laws of Planetary Motion
Laws of Physics
Laws of Mathematics
Laws of Logic

Laws of Chemistry Water

Laws of Physics - Laws of Planetary Motion

Thermodynamics – Three Laws

Laws of Mathematics - Fibonacci Series

Laws of Logic – Classical Rationality

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The Big Idea

Jesus Created Ideal and Necessary Conditions for Human Life in One Unique Place. They Are Difficult to Impossible to Achieve Without Him.

Slide 6

The Earth Displays God's Wisdom

“Where were you when I laid the foundation of the earth? Tell Me, if you have understanding, Who set its measurements? Since you know. Or who stretched the line on it? “On what were its bases sunk? Or who laid its cornerstone, When the morning stars sang together And all the sons of God shouted for joy?”

Pastor Jeremy discussed the self-righteousness of the Pharisees (John 7:19-31; August 16, 2026 “When Right Looks Wrong”), and by extension, us, blinding us into not being able to see ourselves for who we are: defective sinners with an incorrect self-image.

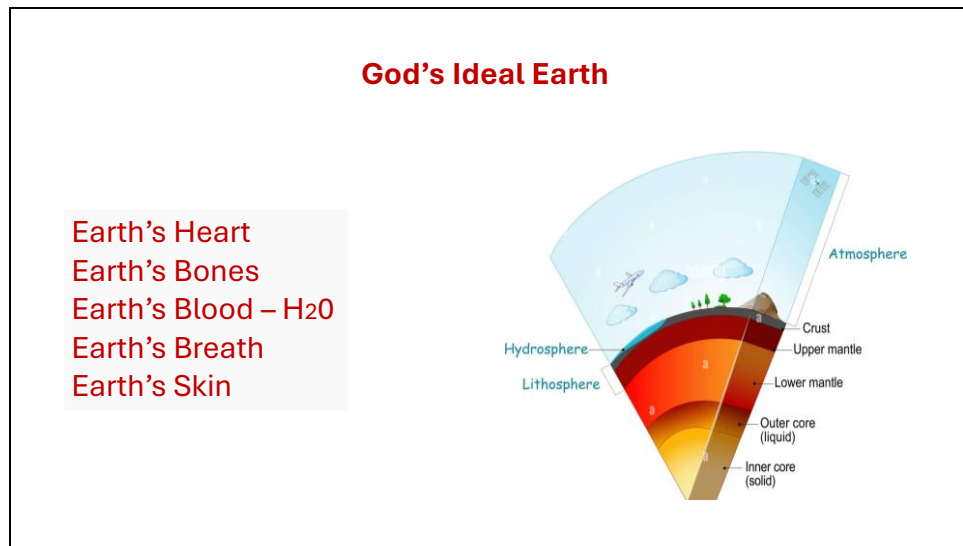
In these verses, God also corrects Job's incorrect self-righteousness by displaying a fraction of the power and wisdom He used when creating Spaceship Earth.

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The Earth Displays God's Wisdom

“Or who enclosed the sea with doors When, bursting forth, it went out from the womb; When I made a cloud its garment And thick darkness its swaddling band, And I placed boundaries on it And set a bolt and doors, And I said, ‘Thus far you shall come, but no farther; And here shall your proud waves stop’?
– Job 38:4-11

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Earth's Heart – Earth's Beating Heart is a mass of hot metal compressed to a solid: the anchor of our life-sustaining planet.

Earth's Bones – The ground beneath us sustains our bodies with its elements and lifts our soul with its discovered beauty.

Earth's Blood – The oceans, lakes and rivers warm, cool, refresh, and protect us. (From last week)

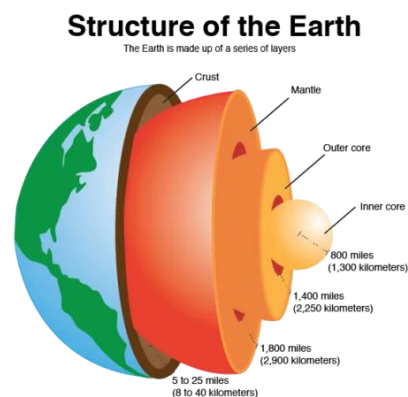
Earth's Breath – Our amazing atmosphere is perfectly designed for protection, life, sustenance, and its discovered beauty

Earth's Skin – Surrounding our circling orb is our incredible shield protecting us from harm outside the planet that would otherwise make life impossible.

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The Heart of the Matter: The Core

Inner Core:
Mostly Iron & Nickel
Solid Due to Pressure
9000° (Yikes!)
Outer Core:
Liquid Iron
Vital to Life on the Planet



We know what the inside of the earth is by listening to earthquakes, how, when and where they echo around the earth helps measure them (more later)

How We Know the Earth's Core Is Iron

We don't have a core sample, so scientists deduce its composition from indirect observations — mainly seismic waves and density measurements.

1. Seismic wave behavior

Earthquakes generate waves that travel through the planet. P-waves (compressional) can pass through solids, liquids, and gases, while S-waves (shear) can only travel through solids.

S-waves disappear at the outer core boundary, creating a “shadow zone” on the opposite side of the Earth. This proves the outer core is liquid scienceinsights.org.

P-waves slow down and change direction as they pass through the core, revealing its high density and metallic nature scienceinsights.org+1.

2. Density and gravity data

The Earth's total mass and gravitational field show that the core must be much denser than the mantle. The only dense materials that fit are iron and nickel.

The inner core is solid, and its density matches that of a crystalline iron–nickel alloy [Wikipedia](https://Wikipedia.com)+1.

The outer core is liquid iron–nickel, with lighter elements (like sulfur, oxygen, silicon, carbon, hydrogen) mixed in to explain why it's slightly less dense than pure iron biologyinsights.com.

Source: Co-pilot AI

Later we'll see why we need the core(s) just the way they are, designed!

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The Heart of the Matter: The Core

- Outer Core:
 - Liquid Metal
 - Vital to Life on the Planet
 - Doesn't Rotate With Axis
 - Seismic Waves Tell the Story

Structure of the Earth
The Earth is made up of a series of layers.

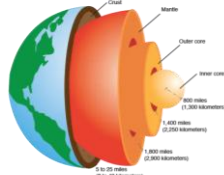
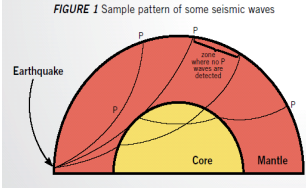


FIGURE 1 Sample pattern of some seismic waves



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Lifblood – Wondrous Water

- Ocean Currents
- Solvents
- Support Critical Ocean Life
- Beauty of Refraction
- Beauty & the Beast of Erosion
- Warming & Cooling

Solvents –most things, even uranium dissolve in water!

Critical life, not just fish, but minerals including salt, deuterium, all kinds of minerals dissolved in seawater

Minerals in Seawater:

Chloride, Sodium, Magnesium, Sulfur, Calcium, Potassium, Bromine, Carbon(inorganic), Strontium, Boron, Silicon, Carbon (organic), Aluminum, Fluorine, N as nitrate, Nitrogen (organic), Rubidium, Lithium, P as Phosphate, Copper, Barium, Iodine, N as nitrite, N as ammonia, Arsenic, Iron, P as organic, Zinc, Manganese, Lead, Selenium, Tin, Cesium, Molybdenum, Uranium, Gallium, Nickel, Thorium, Cerium, Vanadium, Lanthanum, Yttrium, Mercury, Silver, Bismuth, Cobalt, Gold

Oil comes from oceanic algae.

Beauty of refraction, like a prism separating light into colors

Ocean Currents stabilize and transport heat & rain.

Source:

<https://depts.washington.edu/embryology/index.php?id=mineral>

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Breath of Life – Apollo One Fire Video

- To Illustrate Atmospheric Composition

Notes on Apollo One Video:

The danger of pure oxygen

Astronauts Grissom, White & Chaffee were burned to death during a test of the Apollo One command module in January 1967 preparatory to the 1969 lunar landing

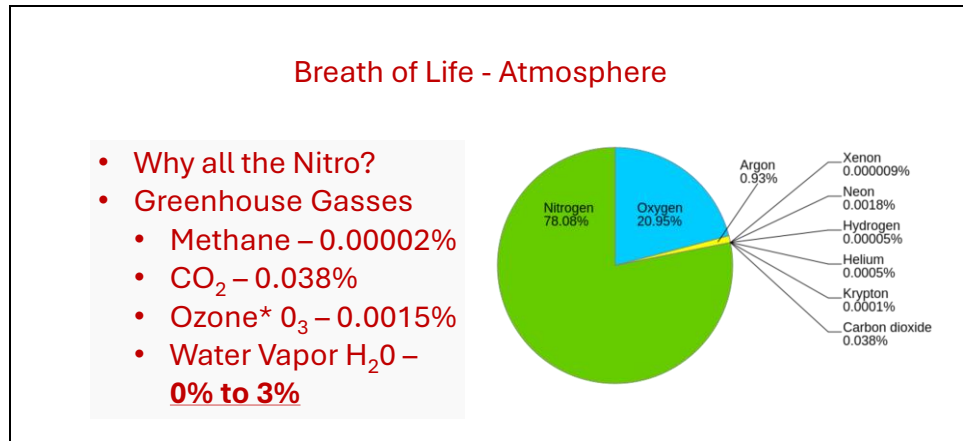
The capsule was loaded to 100% oxygen, instead of 21%, the amount in our atmosphere

A spark ignited inside this environment consuming all flammable objects and killing all 3 astronauts in under 30 seconds

An investigation revealed that no one thought about how any object in a pure oxygen environment would become intensely combustible.

Other failure points including poor workmanship, unprotected cabling, lack of fire safety equipment & procedures among many others.

The Point: Having our air made up of mostly nitrogen is yet another stroke of Genius, not accidental.



Nitrogen is **diatomic**; a molecule is two nitrogen atoms bonded, making it **chemically inert**. (N₂) at sea level pressure.

It adds necessary pressure needed to make **breathing easier** without **too much oxygen**.

When atmospheric molecules have more than 2 atoms, these polyatomic molecules can contribute to greenhouse gasses (Like being inside a greenhouse retaining heat from the sun.)

Examples are carbon dioxide (CO₂), water vapor (H₂O), ozone (O₃), and methane (CH₄) Methane as a gas

Ozone is formed by UV rays in the upper atmosphere (12 to 16 miles up). It protects us from UVB radiation. by absorbing it. 15ppm is in the stratosphere about 90% of all ozone

The earth itself also contributes to the water, xenon, neon and other noble gases emitted from rocks.

Argon, for instance, seeps up from ⁴⁰potassium (an isotope of ³⁹potassium having an extra neutron) radioactive decay.

All these noble gases have varied industrial, medicinal and other uses. Our loving Creator thought of this when He formed our atmosphere.

Sources:

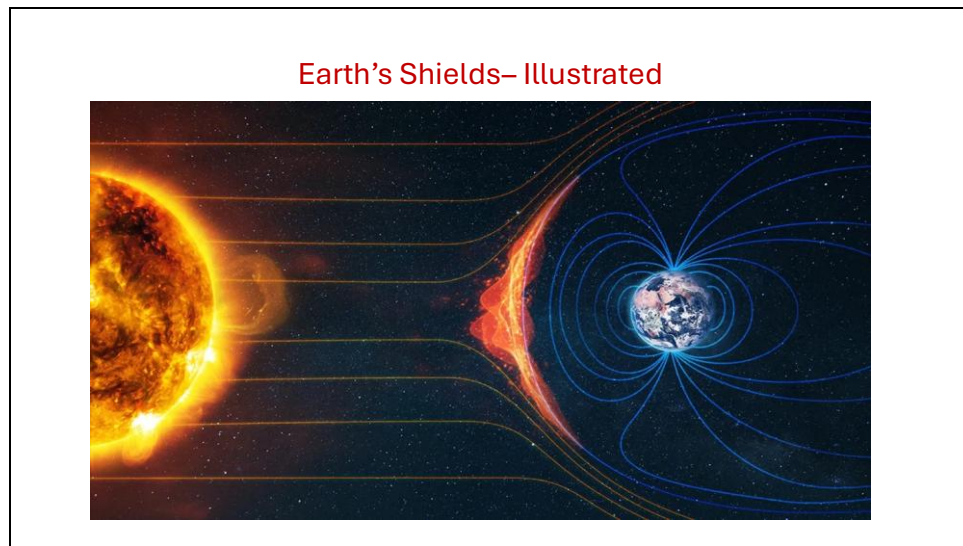
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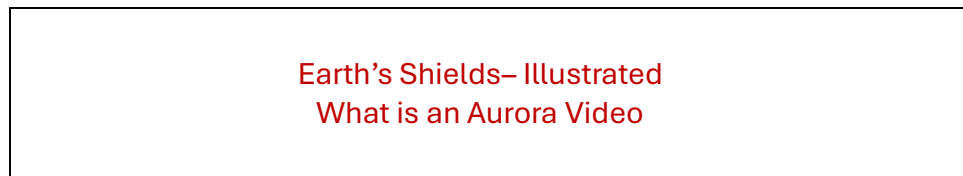
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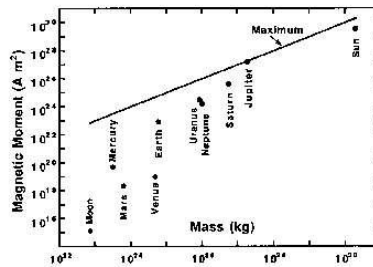
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- An aurora are particles charged by the sun lighting the sky near the north and south poles, working exactly like a fluorescent tube light.
- Small energetic particles from solar coronal mass ejections, CME's are shot out to earth. (Solar wind)
- Earth's magnetic field is generated by our core (don't make me go back!)
- Some of these particles are bent around to the top and bottom of the earth
- Oxygen reacts with green & red light, nitrogen makes blue & purple,
- Planets with atmospheres and magnetic force probably have auroras such as Jupiter & Saturn

Earth's Shields– Magnetic Field

- Avg Intensity ~7% / Year
- Rocks & Archeology
- Can't Be Old
 - Exact and Relative
 - Not Extrapolated
- Field Reversals
- RC Predictions Validated on Other Planets



- That's half of it's energy every 700 years.
- Archaeomagnetism – the study of magnetism from archeological digs with known date
- Paleomagnetism – study of magnetism from rock samples using relative or numeric dating, not radiometric
- This tells us exact field strengths of the field, not guessing or extrapolating /** explain extrapolation /**
- Dr. Russel Humphreys, astrophysics a creationist published predictions on the magnetic strength on as yet unmeasured Uranus & Neptune. He used 2 Peter 3:5 as his starting point holding that these planets were “born of water and had measurable characteristics. Two years later Voyager II measured them and validated his theory. Deep time science had predicted weak or non-existent fields on the thinking they were too old to have a field. These validate a young solar system. The picture shows the mass of a planet and magnetic moment, a measurement of magnetic strength.

Sources:

<https://www.icr.org/article/earths-magnetic-field-young>

<https://www.icr.org/article/beyond-neptune-voyager-ii-supports-creation/>

Earth's Shields– Rocks & Gravel

- Earth's Atmosphere Also Shields Us From Meteors
- But Not Big Ones
- It Adds to Our Volume



- Meteor Crater Near Winslow Arizona
- Believed to be 150 feet traveling at 8 miles/sec
- 3900' across
- John 16:33 – ““These things I have spoken to you, so that in Me you may have peace. In the world you have tribulation, but take courage; I have overcome the world.”

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Putting It all Together - Goldilocks Planet ICR Video

Notes on Goldilocks Three Bears Fairy Tale “Just Right” Video:

Water animals, people, necessary for life

Just the right distance from the sun, not too hot, not too cold

If closer then too hot, any farther then freezing

Just right gravity to support n atmosphere, not too much to crush us

Mars wispy CO₂ atmosphere, Venus heavy crushing sulfuric acid atmosphere

Mercury way too hot

Just right, created by a loving God.

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The Earth is No Accident

For thus says the LORD, who created the heavens (He is the God who formed the earth and made it,

He established it and did not create it a waste place, but formed it to be inhabited), “I am the LORD, and there is none else.

– Isaiah 45:18