

Examining the Cosmos

Session 5 *Our Miraculous Moon*

Reference Document 6.

Our Miraculous Moon

When our primordial Earth was only 30 to 50 million years old, a Mars sized planet smashed into Earth. This was a very special collision:

- Right mass
- Right speed
- Right angle
- Right position

The odds of these parameters being just right are almost ZERO

This astonishing crash provided 8 benefits to our earth:

1. Replaced Earth's thick, life-suffocating atmosphere with one thin enough (about 100 times thinner) for light to pass through. The new atmosphere had the just-right chemical composition to foster life's existence.
2. Boosted the mass and density of Earth just enough to allow Earth's gravity to retain a large, but not too-large, quantity of water vapor for billions of years.
3. Raised the amount of iron in Earth's core closer to the level needed to provide Earth with a strong and enduring magnetic field. This magnetic field shields life from deadly cosmic rays and solar X-rays.
4. Delivered to Earth's core and mantle quantities of iron and other associated elements in the just-right ratios to produce sufficiently long-lasting, continent-building plate tectonics. (Earth began without any continents.) Plate tectonics' also perform a crucial role in compensating for the sun's increasing brightness so that life can be sustained on Earth for billions of years.

5. Increased the iron content of Earth's crust in a way that permits a huge abundance of ocean life that in turn supports advanced land life.
6. Played a major role in salting Earth's interior with an abundance of long-lasting radioisotopes, the heat from which drives most of Earth's tectonic activity and volcanism.
7. Gradually slowed Earth's rotation rate so that a wide variety of lower life-forms, could survive long enough to provide the resources needed for the existence of advanced life-forms. This slowing was also directly significant to advanced life, which cannot survive the high wind velocities of a more rapid rotation rate.
8. Stabilized the tilt of Earth's rotation axis, protecting the planet from rapid and extreme climatic variations.

The collision that led to the formation of a just-right moon appears to have been perfectly aimed, weighed, and timed to change Earth from a "formless and empty" wasteland into a site where advanced life could survive and thrive. The degree of "Anthropic" fine-tuning manifested in just this one event argues powerfully for a divine Creator.

Gen1:16-18

"God made two great lights-the greater light to govern the day and the lesser light to govern the night. He also made the stars. God set them in the expanse of the sky to give light on the earth, to govern the day and the night, and to separate light from darkness. And God saw that it was good."

Psalm 8:3-9

*"When I consider thy heavens, the work of thy fingers, the moon and the stars, which thou hast ordained:
O LORD our Lord, how excellent is thy name in all the earth!"*

Psalm 19:1-4

"The heavens tell of the glory of God. The skies display his marvelous craftsmanship. Day after day they continue to speak: night after night they make him known: They speak without a sound or a word: their voice is silent in the skies, yet their message has gone out to all the earth, and their words to all the world".