

Creation and Intelligent Design



Week 5

Third Stone
from the Sun

Greg Nordstrom
Bruce Zupa

The “*Goldilocks Enigma*”

Paul Davies

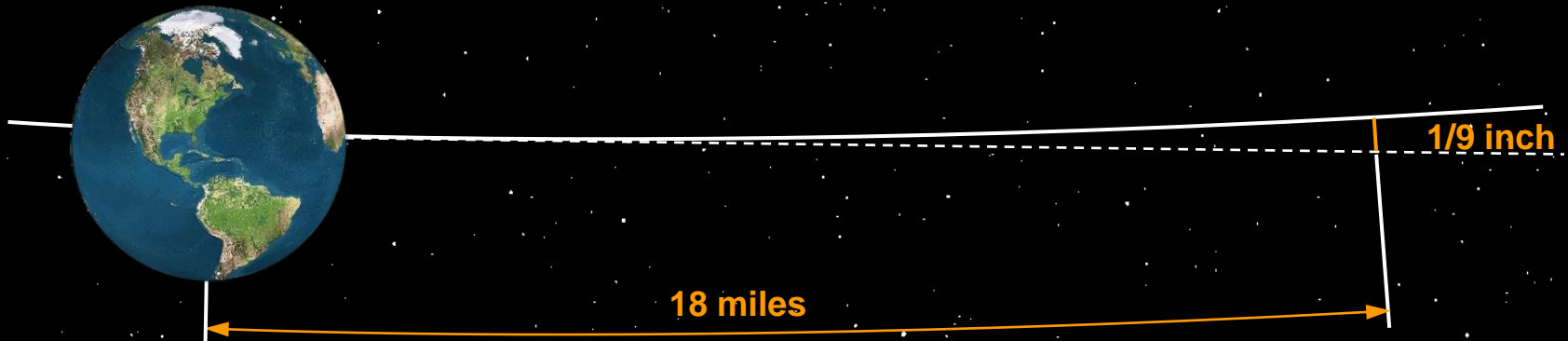


Not too hot,
not too cold...
Just Right!



Earth Facts

- Sun's interior burning at $20,000,000^{\circ}\text{C}$
 - 10% further away and we'd **freeze** to death
 - 10% closer and we'd **burn up**
- Earth's orbit about sun
 - Departs from straight line $1/9$ " every 18 miles
 - If $1/8$ ", atmosphere would **boil away**
 - If $1/10$ ", **too cold** to support life
- We're ***just the right distance for life***

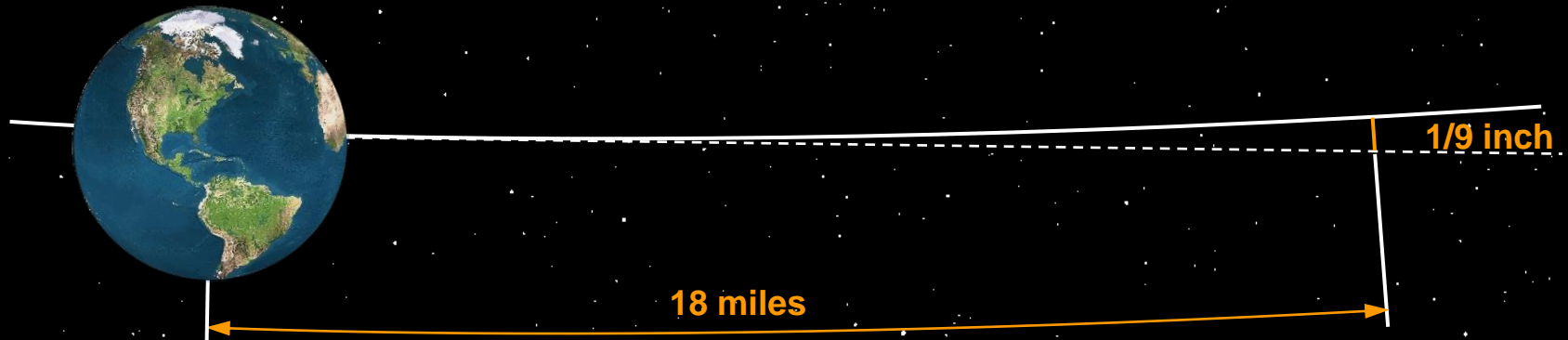


Earth Facts

- Most amazing (and unexplainable):
 - Distance maintained for as long as life has been here
 - The **consistency** of earth's parameters (orbital diameters, atmospheric content, temperature variations, etc.) continues to **baffle scientists**

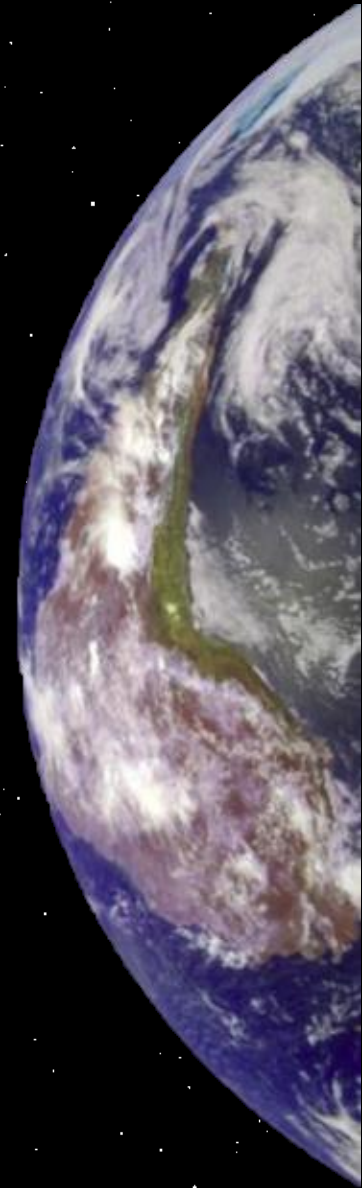
While the earth remaineth, seedtime and harvest, and cold and heat, and summer and winter, and day and night shall not cease.

- Gen 8:22



Earth Facts

- Moon
 - 25% size of earth
 - Freakishly large as moons go
 - 240,000 miles away, causes our tides
 - 20% closer, 35-50 ft waves twice a day
 - Slightly farther, “tidal engine” fails and no life exists!
- The moon is ***just the right distance*** from earth
 - And has *maintained* that distance for as long as life has been on earth!



Earth Facts

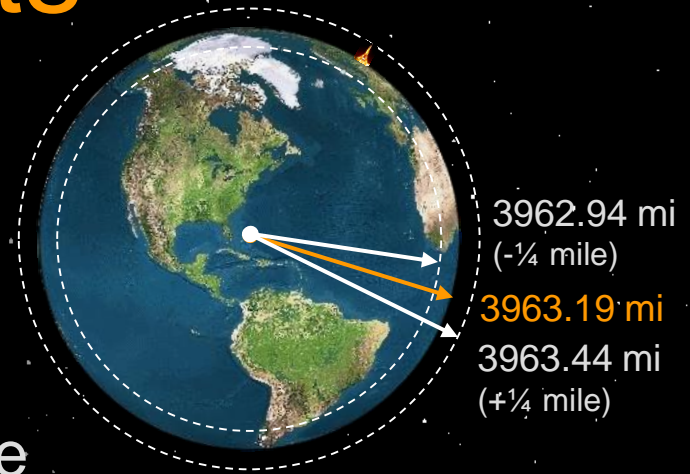
- Earth orbits the sun once per year
- What if it took two years?
 - Seasons too long and harsh for life
- What if it only took six months?
 - Seasons too short to grow enough food

Let there be lights in the firmament of heaven to divide the day from the night: and let them be for signs and for seasons, for days and for years.

- Gen 1:14

Earth Facts

- Earth's average radius is 3963.19 miles
- Increase radius by $\frac{1}{4}$ mile (1320 feet, or 0.0063%)
 - Atmosphere **too thin** to support life
- Decrease radius by $\frac{1}{4}$ mile
 - Much of current landmass would be **underwater**
- That's like changing the radius of a 3-foot beach ball less than the width of one human hair!



**Earth's diameter is
*just right for life!***

Entropy

“The quantity of energy no longer available to do physical work.”

- Entropy is a measure of **disorder**
 - Systems tend to maximum disorder
 - i.e. entropy increases naturally
- Observations:
 - Universe tends naturally toward **disorder**
 - Things tend to **decay**, to become **chaotic** and **random**
 - It takes **energy** to organize; disorganization happens **naturally**
- God put energy into His creation to give it order
 - *Erev* and *Boker* (evening→morning, chaos→order)
- Entropy is a powerful scientific argument against evolution

No known examples of order coming from disorder given only random chance and large amounts of time

Entropy in Action



Entropy in Action



Entropy in Action



The Anthropic Principle

Anthropic: adj. Of or relating to humans or the era of human life.

American Heritage Dictionary

- Says the universe must have been **fine-tuned** very, very early in its lifetime
 - If any of various physical parameters had been only **slightly different**, then we could not be here!
- Cosmos extremely complex
 - Too complex to have “just happened”
- Universe appears to have begun from a carefully selected and balanced set of initial conditions

The universe appears to have been made **specifically to support human life!**

The Anthropic Principle

“The universe and laws of nature appear very finely adjusted... One can take this either as evidence of divine purpose in Creation and the choice of the laws of science, or as support for the strong anthropic principle.”

Dr. Stephen Hawking

From his book, *“A Brief History of Time”*

“So many essential conditions are necessary for life to exist on our earth that it is mathematically impossible that all of them could exist in proper relationship by chance on any one earth at one time.”

Dr. A. Cressy Morrison

Former President of the New York Academy of Sciences

The Anthropic Principle

“The rules look as if they are the product of intelligent design. I do not see how that can be denied... To what purpose has God produced this design?... It would mean our own existence formed a central part of God’s design.”

Paul Davies

From his book, *“The Mind of God”*

The *Jehovah* Principle

“Who has measured the waters in the hollow of His hand, measured heaven with a span and calculated the dust of the earth in a measure? Weighed the mountains in scales and the hills in a balance?”

- Isaiah 40:12

“For You formed my inward parts; You wove me in my mother's womb. I will give thanks to You, for I am fearfully and wonderfully made; Wonderful are Your works, and my soul knows it very well .”

- Psalm 139:13,14