



For seminar handouts and more info, please visit or contact:

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# Planned Presentations

- Why Creation Matters
- The Origin of the Universe, the Age of the Earth
- The Origin and Diversification of Life
- Geology and Fossils
- Dinosaurs
- Noah's Ark and the Ice Age

Origin of the Universe and the

A photograph of the Earth from space, showing the Americas. The landmasses are in shades of brown and green, surrounded by blue oceans and white clouds. The Earth is set against a black background.

# **Age of the Earth**

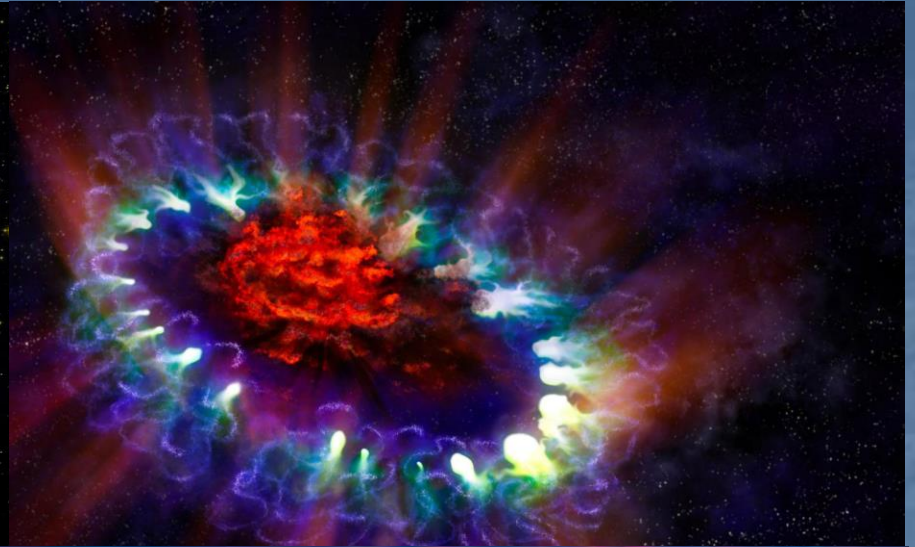
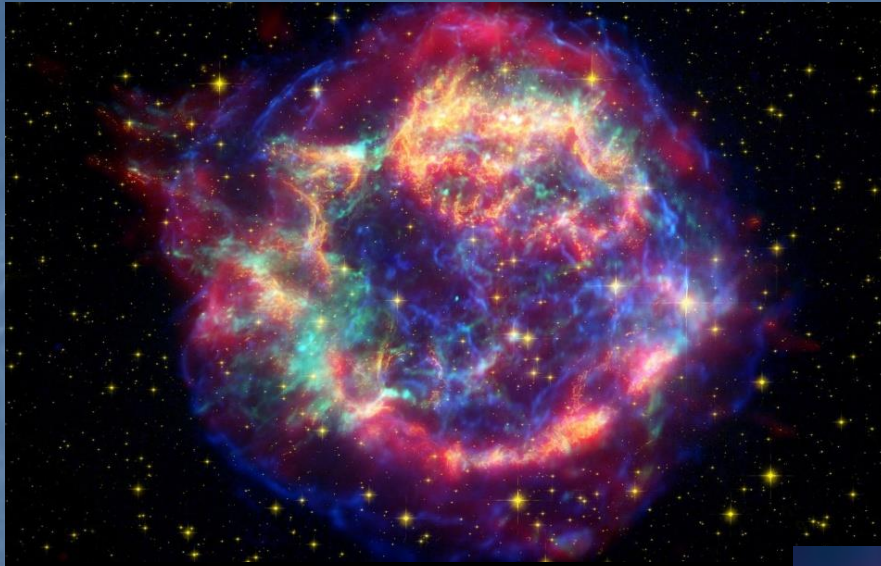
## **Thousands or billions of years?**

# What does God's Word Say?



For in **six days** the LORD made the **heavens** and the **earth**,  
the sea, and **all that is in them...** **Exodus 20:11**





**THE HEAVENS DECLARE THE GLORY OF  
GOD**

Psalm 19:1

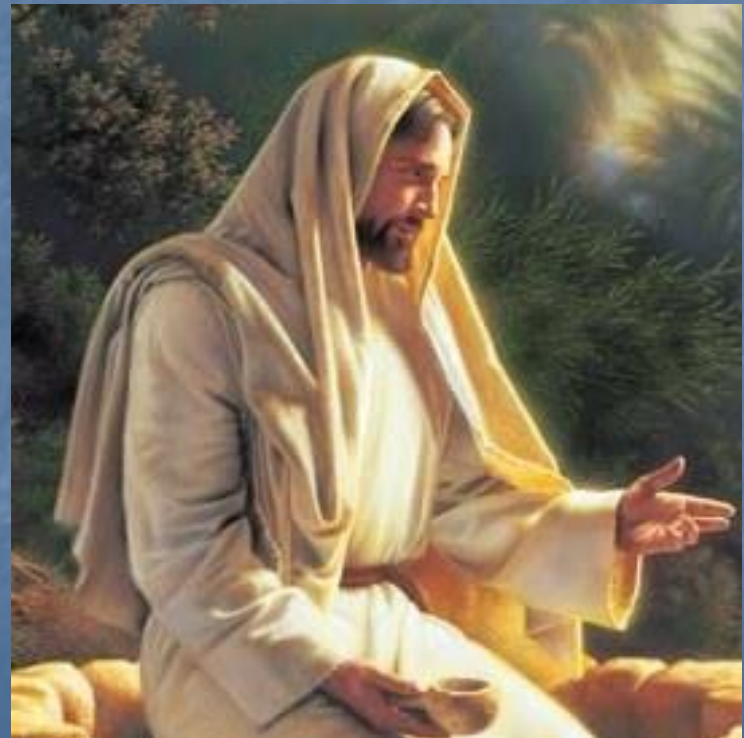
# Astronomy Confirms the Bible

- The earth is **round** - Isa 40:22
- The Universe is **expanding** ("He stretches out the heavens") - Isa 40:22, 42:5
- The earth is **suspended** in space - Job 26:7
- **1<sup>st</sup> Law** of Thermo. – Gen 2:1, Ex 20:11
- **Innumerable Stars** God knows - Gen 22:17  
- Psalm 147:4



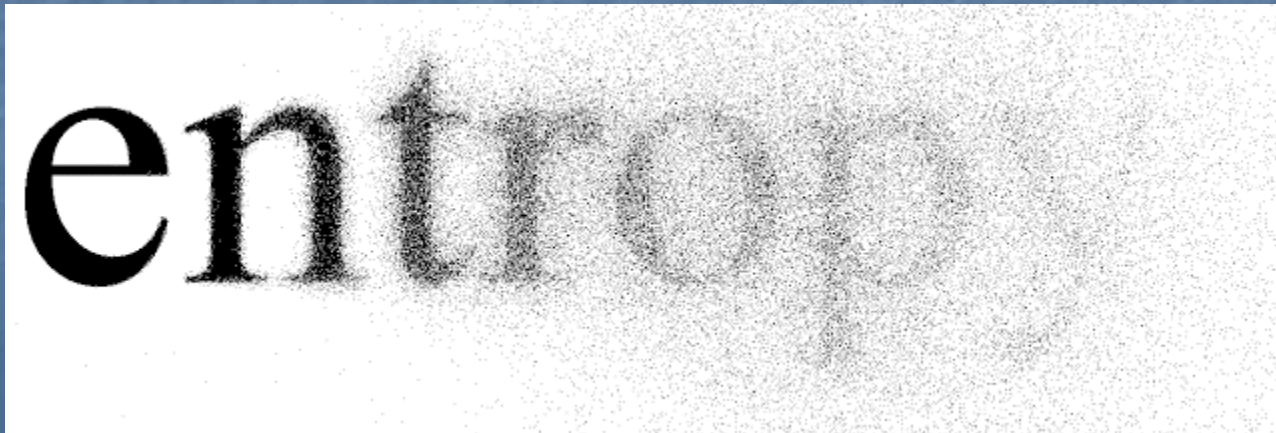
# Jesus Affirms the Creation of Adam and Eve at “the Beginning”

**Mark 10:6** “...But from the **beginning of the creation** God made them **male and female...**”



# 2<sup>nd</sup> Law of Thermodynamics (Entropy)

- Usable energy (order) is decreasing; the universe is “winding down.” This means it **had to have a beginning.**
- “...the earth and the heavens...shall **grow old like a garment**” **Heb 1:10,11**





# "Systems" left to Themselves, Decay



# The Law of Cause and Effect



- Everything has a cause
- The cause is always greater than the effect
- God (**cause**) created the universe (**effect**)

# Conservation of Matter and Energy (1<sup>st</sup> Law of Thermodynamics)

- **Law:** The **total amount** of matter and energy in the universe is **fixed** and cannot be created or destroyed.
- “Thus the heavens and the earth were **finished.**” **Gen 2:1**

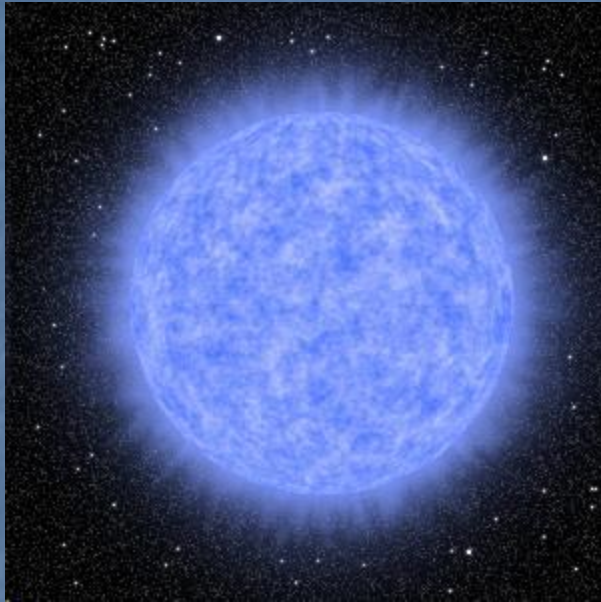


# Big Bang Cosmology Timeline





# Existence of Many Blue Stars



Orion's belt

- Massive very bright/hot stars
- They burn their fuel rapidly
- They last "only" millions of years
- Spiral arms of our galaxy contain many blue stars

# “Winding up Dilemma”

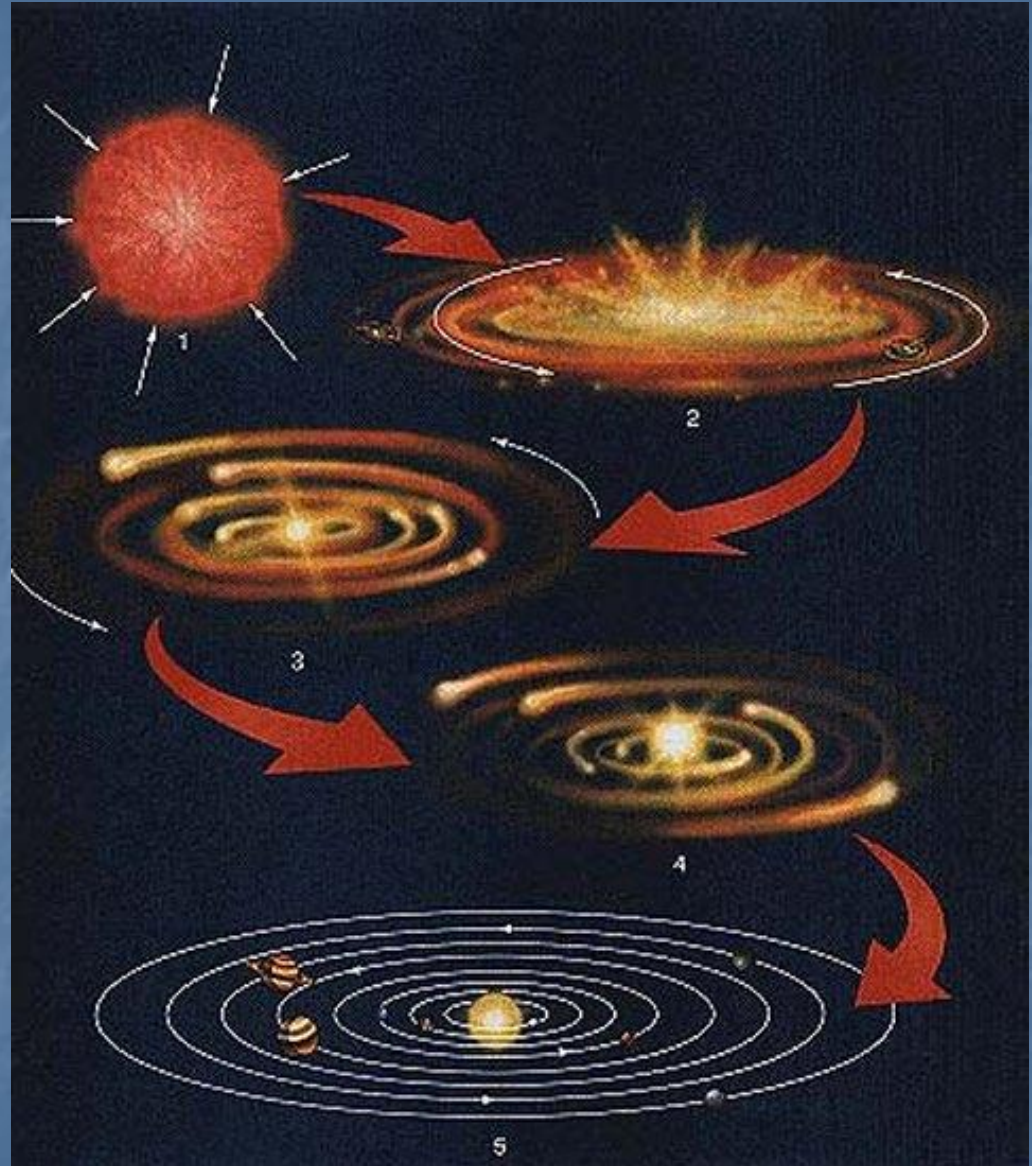
## Persistence of spiral galactic arms



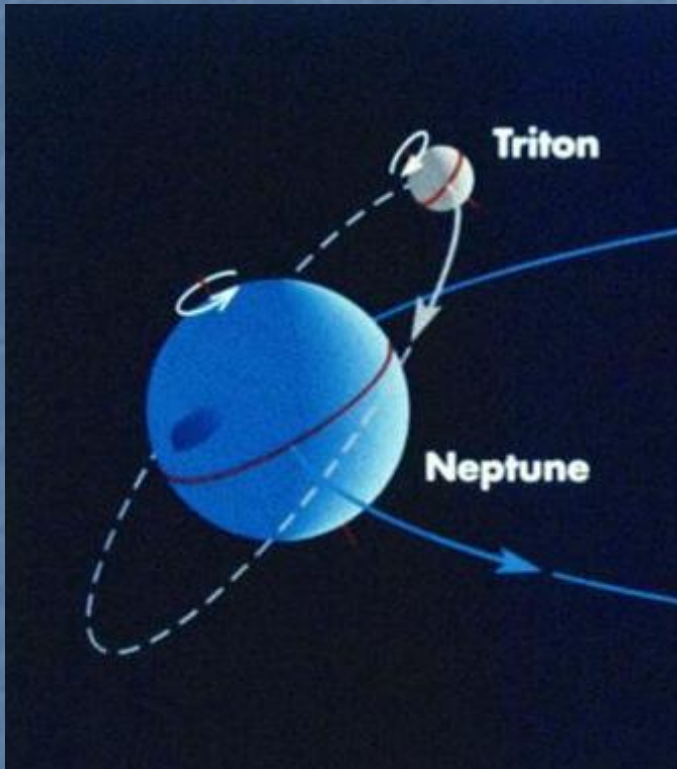


# The Nebular Disc Theory

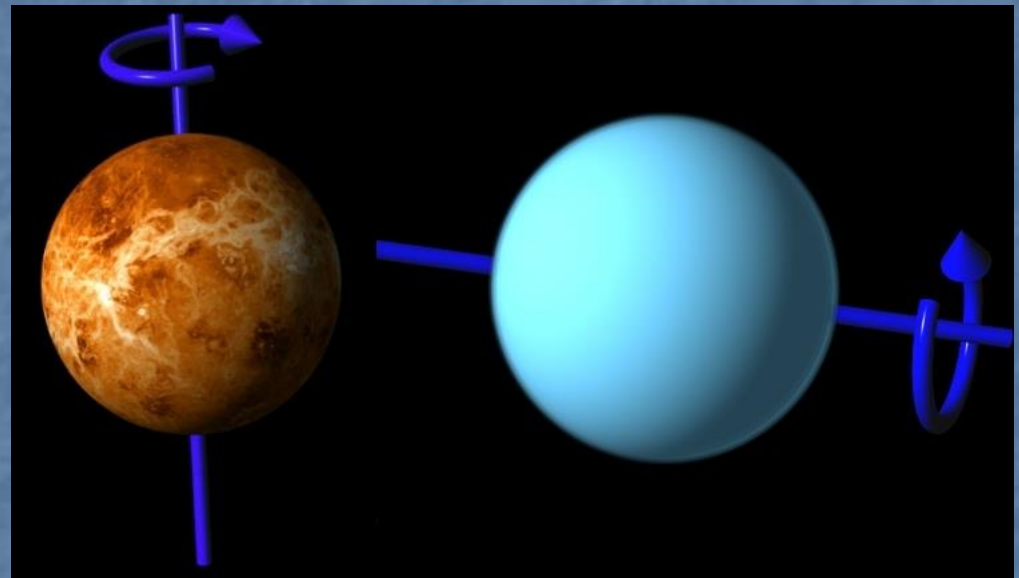
## Formation of the Solar System



# The “Bizarre Mysteries”



Triton's orbit and rotation are “backwards”



Venus rotates “backwards”

Uranus rotates on its side



# Decay of Comets



- Astronomers agree that comets could not survive longer than about 100,000 years.
- **Many** comets have typical ages of **less than 10,000 years.**

Early earth too cold due to a dimmer sun...could life evolve?



# Big Bang Cosmology Problems

## Summary

- Many **Blue Stars**
- Persistence of **Spiral Galaxies**
- **Nebular Disc** Theory false
- **Comet** Decay
- **Faint Young Sun** Paradox
- Only “**Mature**” Galaxies
- Lack of **Anti-matter**
- **Moon** recession



# Why 6,000 Years?





# Bible Chronology

Adam  
Creation



|---1656 yrs ---|

Noah's Flood (1 yr)

|---- 352 yrs ----|



Abraham

|----- ~4,000\* yrs -----|

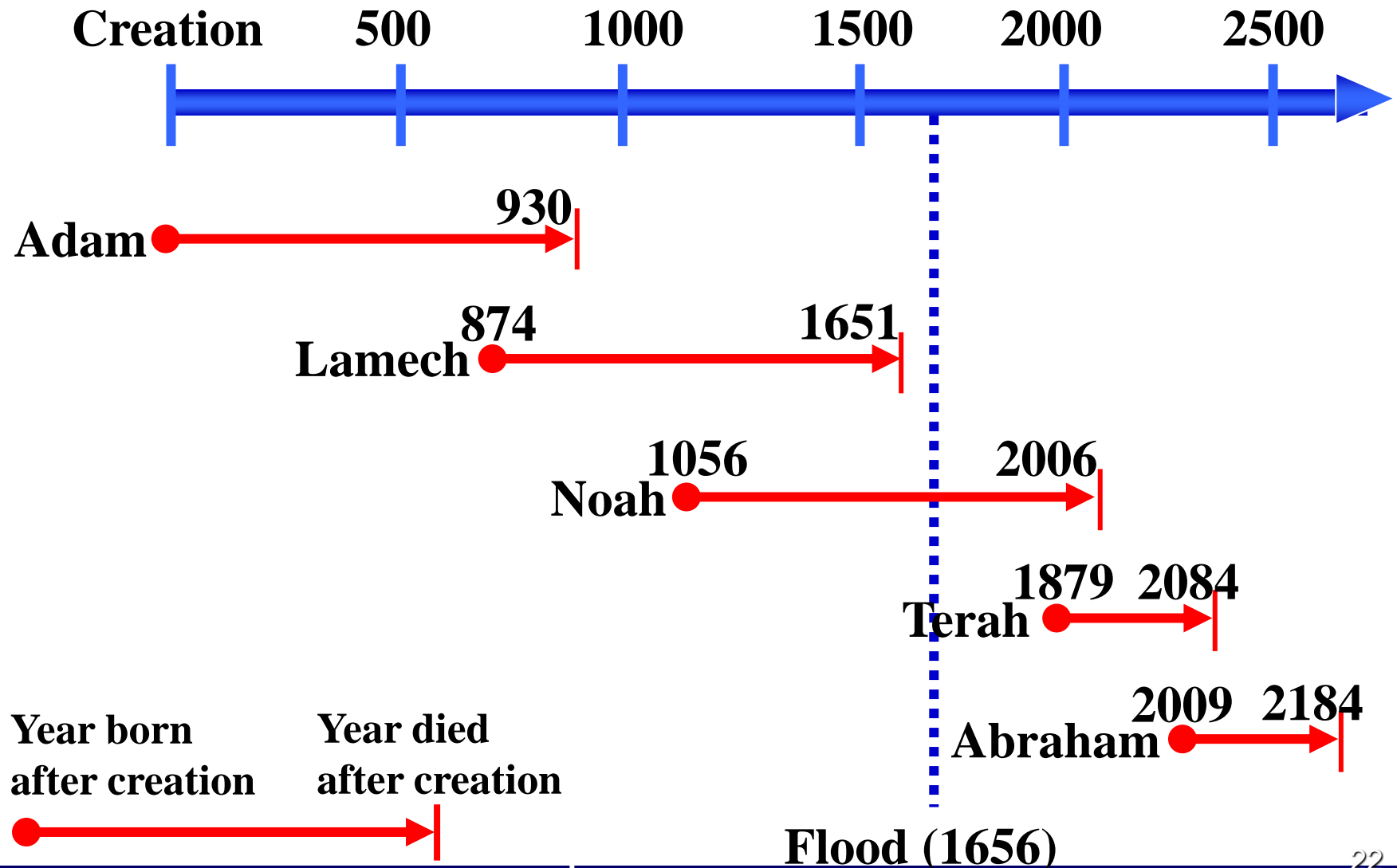
Today

|----- ~6,000 Years -----|

\* Bible scholar consensus

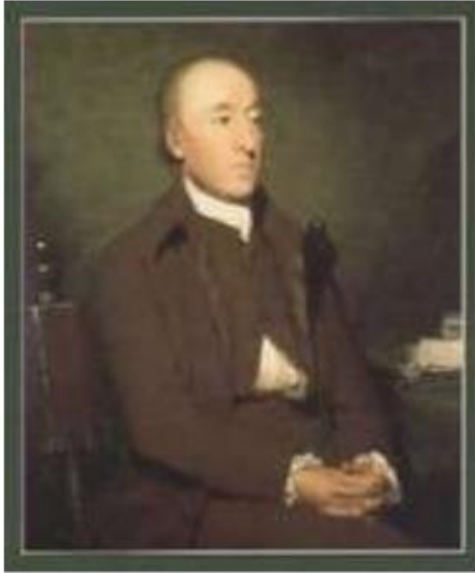
# A Shared Heritage

## Years after creation

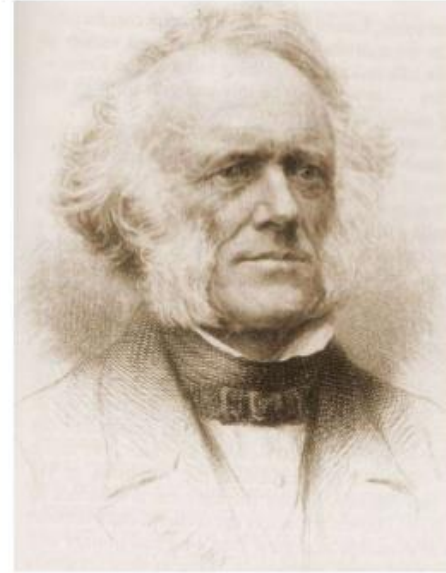


# Millions of Years Introduced

**James Hutton**



**Charles Lyell**

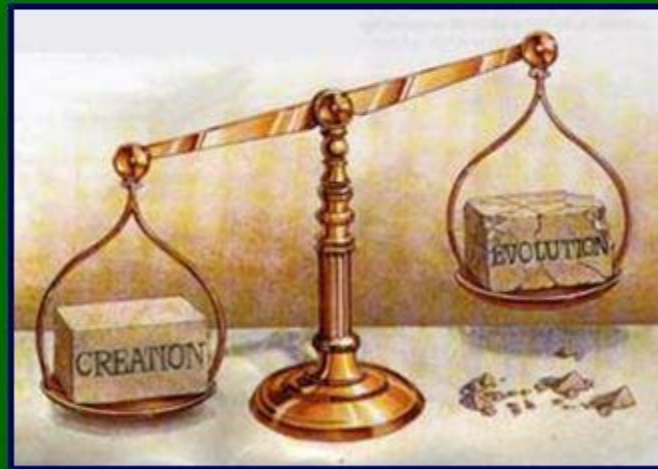


**“Changes in Earth’s surface can be caused by slow, continuous changes; Earth has to be more than a few thousand years old”**

- In 1795 and 1833 these two men wrote books refuting a “young” 6,000 year old earth
- “Present is key to the past” = Uniformitarianism



# Scientific Evidence for a Young Earth



# Evolution's non-compelling Evidence

"...scientific **evidence supporting creation** science is as strong as that supporting evolution. In fact, it **may be stronger....** The evidence for evolution is far less compelling than we have been led to believe. Evolution is not a scientific "fact," since it **cannot actually be observed** in a laboratory... The scientific **problems** with evolution are **so serious** that it could accurately be **termed a "myth."**...

US Supreme Court Justice **Anthony Scalia**

# Limiting Factor on the Earth's Age





# Three Dating Assumptions

- 1. Initial conditions are known
- 2. The process is closed  
– no outside influences
- 3. Rate of change has been constant



# Dating Earth's Rocks

- **Radiometric dating**: **Igneous** Rocks – molten rock which has solidified (volcanic/lava, basalt, granite) or **Metamorphic** Rocks – changed by heat and pressure (slate, quartzite, marble, gneiss)
- **Note**: **Sedimentary** Rocks – laid down by water (shale/mudstone, sandstone, limestone)

# Radiometric Dating

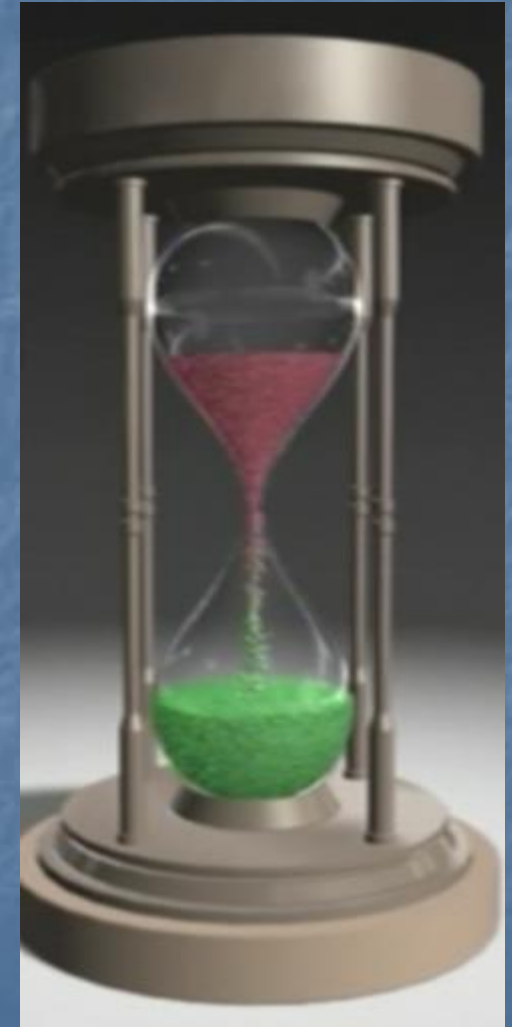
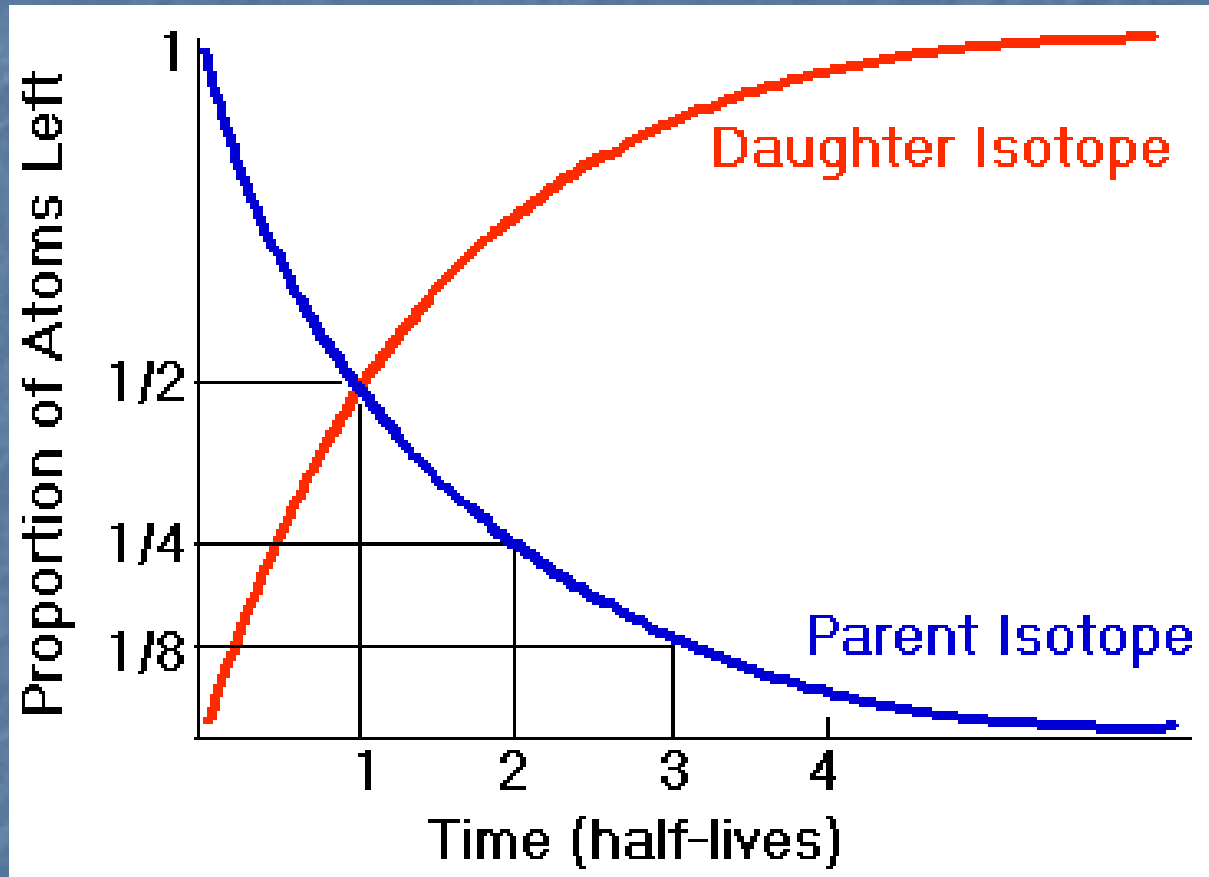
**Radiometric Dating:** process that measures the ratio of radioactive isotopes to their decay products in order to determine the numeric age of a natural material.

Radioactive Isotope = Parent Isotope

Decay Product = Daughter Isotope



# Radiometric Dating – Half Life



K to Ar half life = **1.25 Billion yrs**

U235 to Pb207 half life = **704 Million yrs**

# Radioisotopes and the Age of The Earth (RATE) Team Findings

- 8-year Research program by PhD creation scientists
- Interesting Discoveries
  - Radioisotope dating
  - Helium in rocks
  - Accelerated nuclear decay
  - Radiocarbon dating

# Inconsistent Radioisotope Dates (Grand Canyon)

## Top – **basalt** from Uinkaret Plateau

K-Ar                      1 to 22 mya  
1 Rb-Sr                923 to 1363  
isochron                mya



## Bottom - Pre-cambrian Gardenas **basalt**

5 K-Ar                      565 to 1050 mya  
1 Rb-Sr isochron                810 to 1192 mya



# Erroneous Radiometric Dates

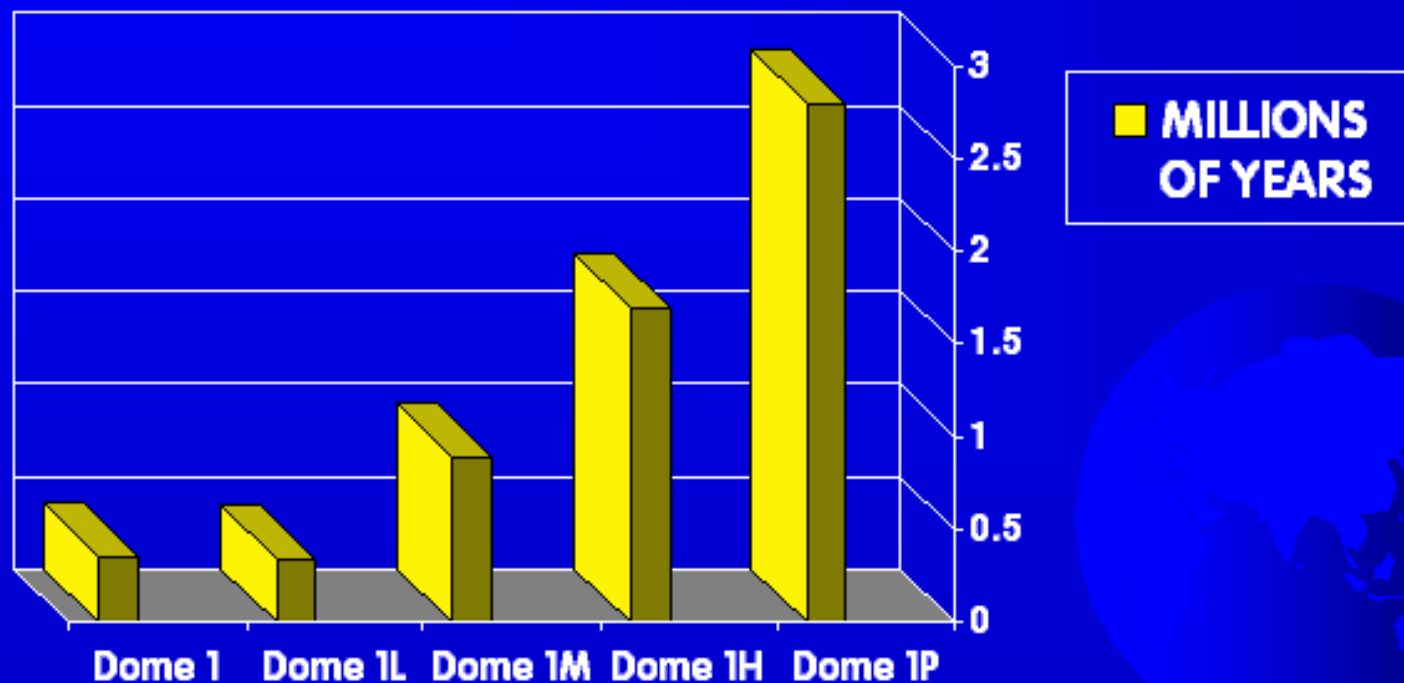
(kya = thousands of years ago, mya=millions of years ago)

Potassium – Argon dating

	<u>Dated at</u>	<u>Actual</u>
<b>Sunset Crater (AZ) lava</b>	200 <u>kya</u>	1065 AD
<b>Mt <u>Ngauruhoe</u> lava (New <u>Zea</u>)</b>	275 <u>kya</u>	1949, 54, 75
<b><u>Hualailai</u> basalt (HI)</b>	1.4-2.2 <u>mya</u>	1801
<b>Mt Etna basalt (Sicily)</b>	140-350 <u>kya</u>	1972
<hr/>		
<b><u>Hawksbury</u> Sandstone (<u>Aust</u>)</b>	225 <u>mya</u> (Triassic)	33 <u>kya</u> (Radiocarbon)

# MT. ST HELENS LAVA

(Actually Formed 1986)



# Radiometric Dating of Rocks



"The Lab  
had to  
contaminate  
the rock



"Lava rocks 30  
years old are  
dated from .5  
to 2.8 billion  
yrs old"



"Dating  
methods are  
in error"



**Known  
age:  
50 years**



**Tested  
age results:  
1,350,000  
years.**

**WRONG!**

**Age:  
Unknown**

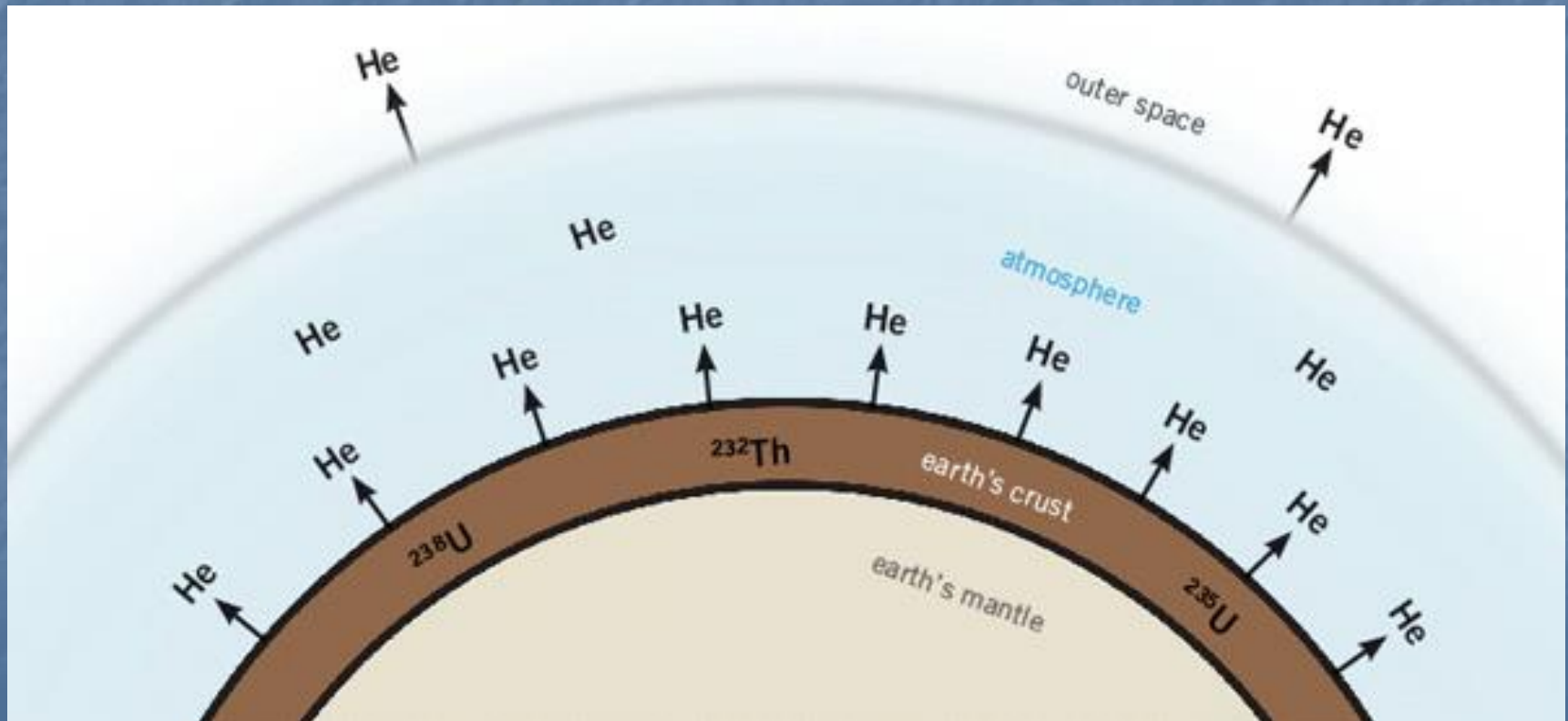


**Tested  
age results:  
2,750,000  
years.**

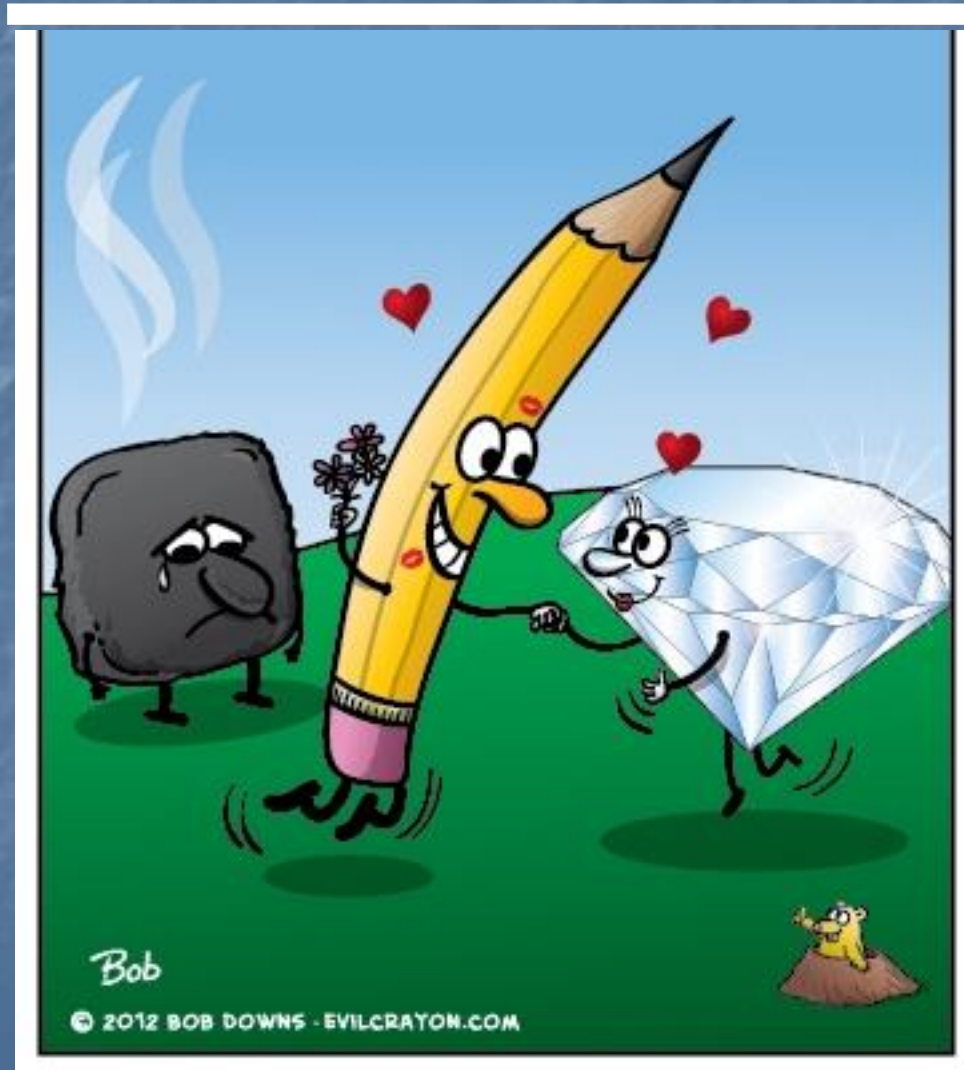
**RIGHT?**

# Helium in Radioactive Rocks

- Radiometric dates of hundreds of MYA
- Actual helium **diffusion age** is  **$\sim 6,000$  yrs**

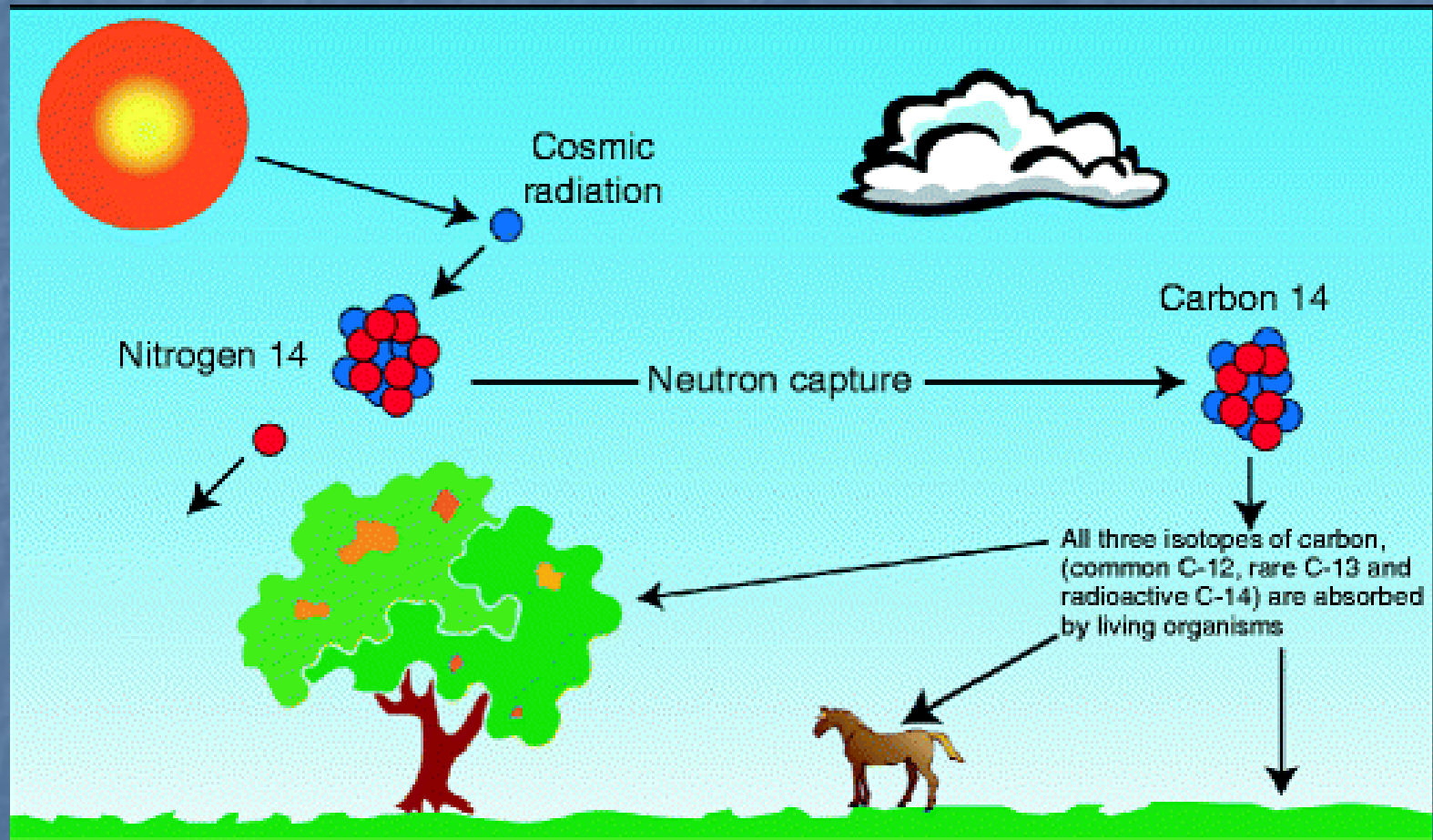


# Radiocarbon Dating





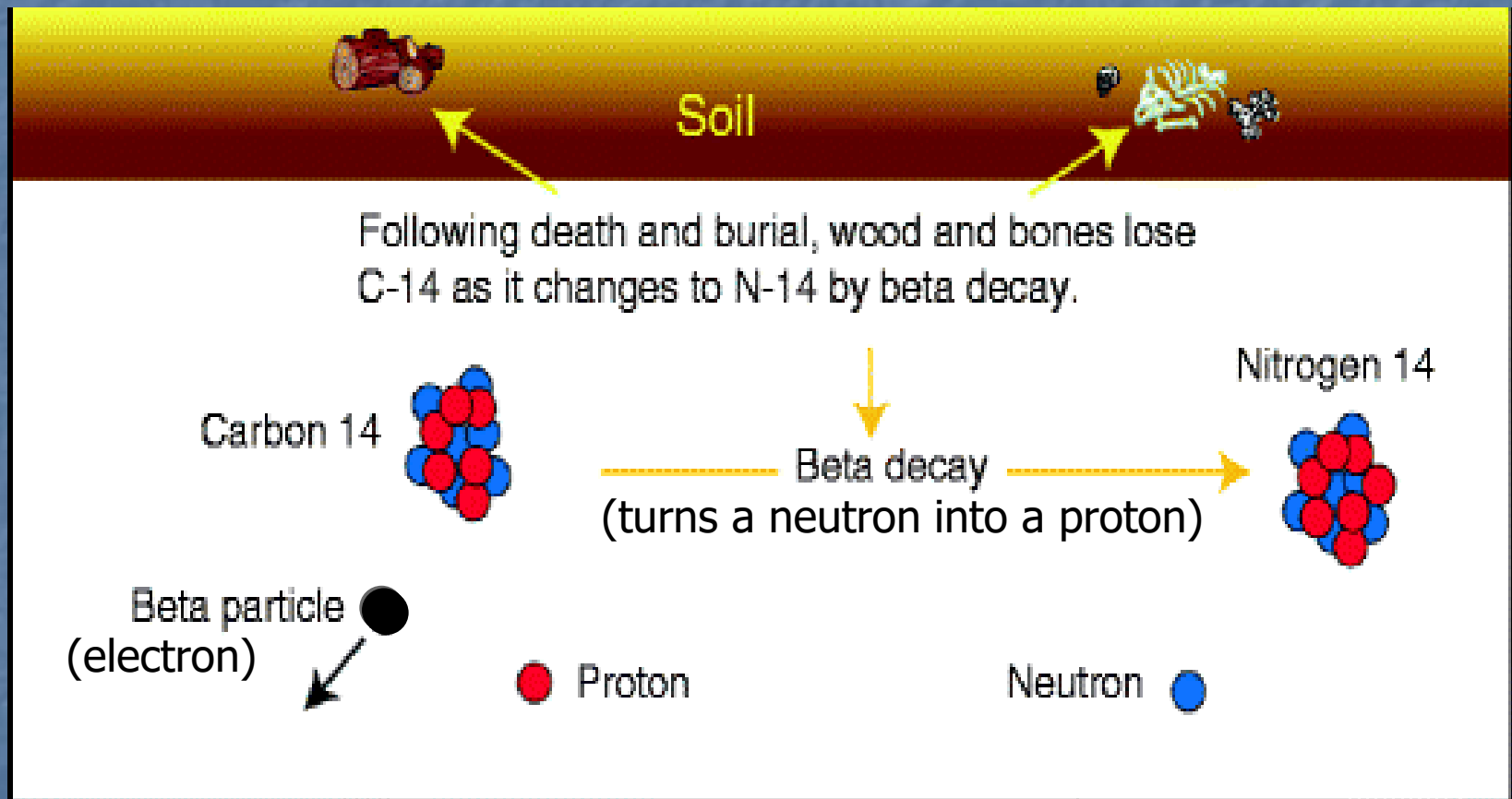
# Radiocarbon Dating



● Proton

Neutron ●

# Radiocarbon Dating



# Three Critical Assumptions

- (1) The **initial** C-14 to C-12 **ratio** was the **same as today's** atmosphere. It has not changed, since it and has been in **equilibrium** for millions of years.
  - **About 1 to 1 Trillion (initial amount known)**
- (2) There is **no outside source or sink** for the parent C-14 or the daughter N-14 during decay.
  - **(closed system)**
- (3) C-14 **decay rate** has always been **the same** (**no rate change**)



# Reported Age – Half Life Decay

- Assumes C-14 to C-12 atmospheric ratio has always been constant – **1 to 1 Trillion**
- C-14 Half life = 5730 yrs

## Measured Ratio

**$\frac{1}{2}$  to 1T**

**$\frac{1}{4}$  to 1T**

**$\frac{1}{8}$  to 1T**

etc.

## Reported Age

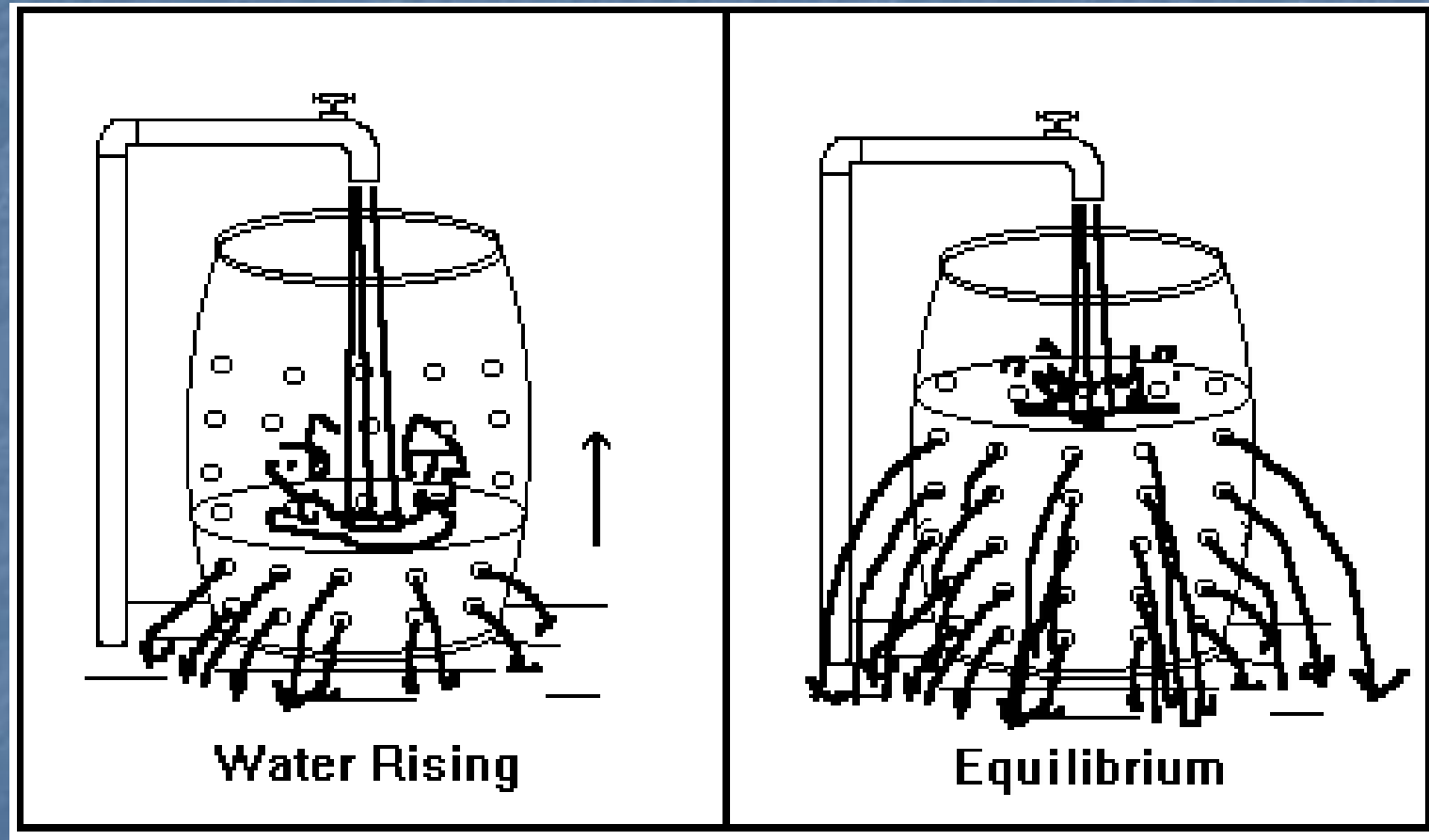
5,730 yrs old

11,460 yrs old

17,180 yrs old

etc.

# C-14 Equilibrium: Inflow = Outgo



# Dr. Willard Libby and Equilibrium

“He found... that, apparently, radiocarbon was **being created...faster** than it was becoming extinct....Libby put the discrepancy down to **experimental error.**”

**But** “During the 1960s, chemists repeated Libby’s experiments (which) revealed that **the discrepancy** Libby observed was not merely an experimental error – it **did exist.**”

Richard, Milton, *Shattering the Myths of Darwinism*, 1997, p. 32. (W. F. Libby, *Radiocarbon Dating*, 1955)



Lower Ratio at death means a  
Reported Age that is too Old

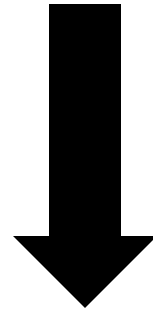
$\frac{\text{C-14}}{\text{C-12}}$



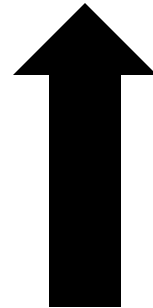
IF

OR

C-14



C-12



# Lush Vegetation = Higher C-12



Noah's



Flood

Sand & Silt

Plant & Animal Remains

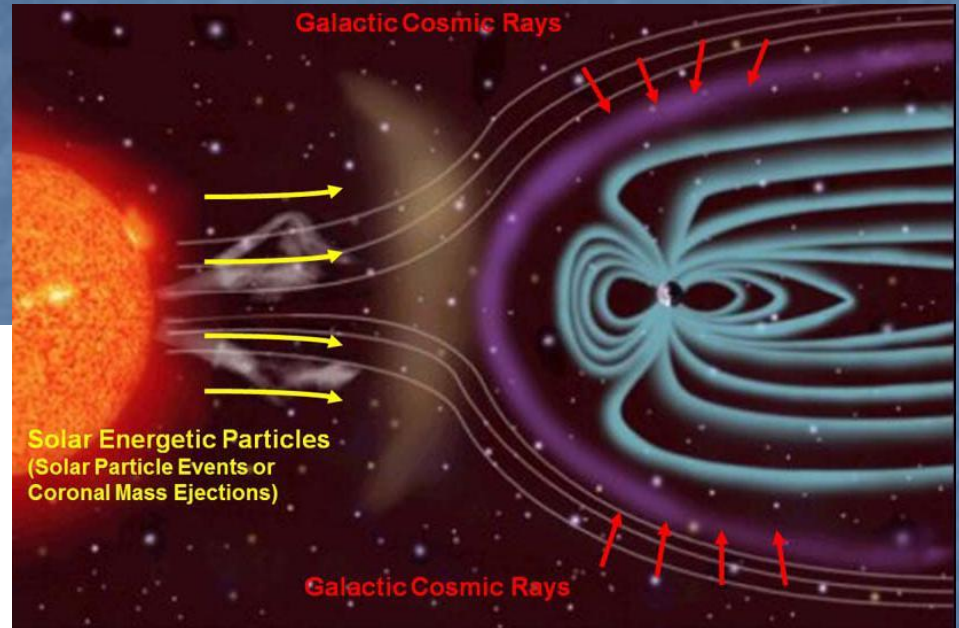
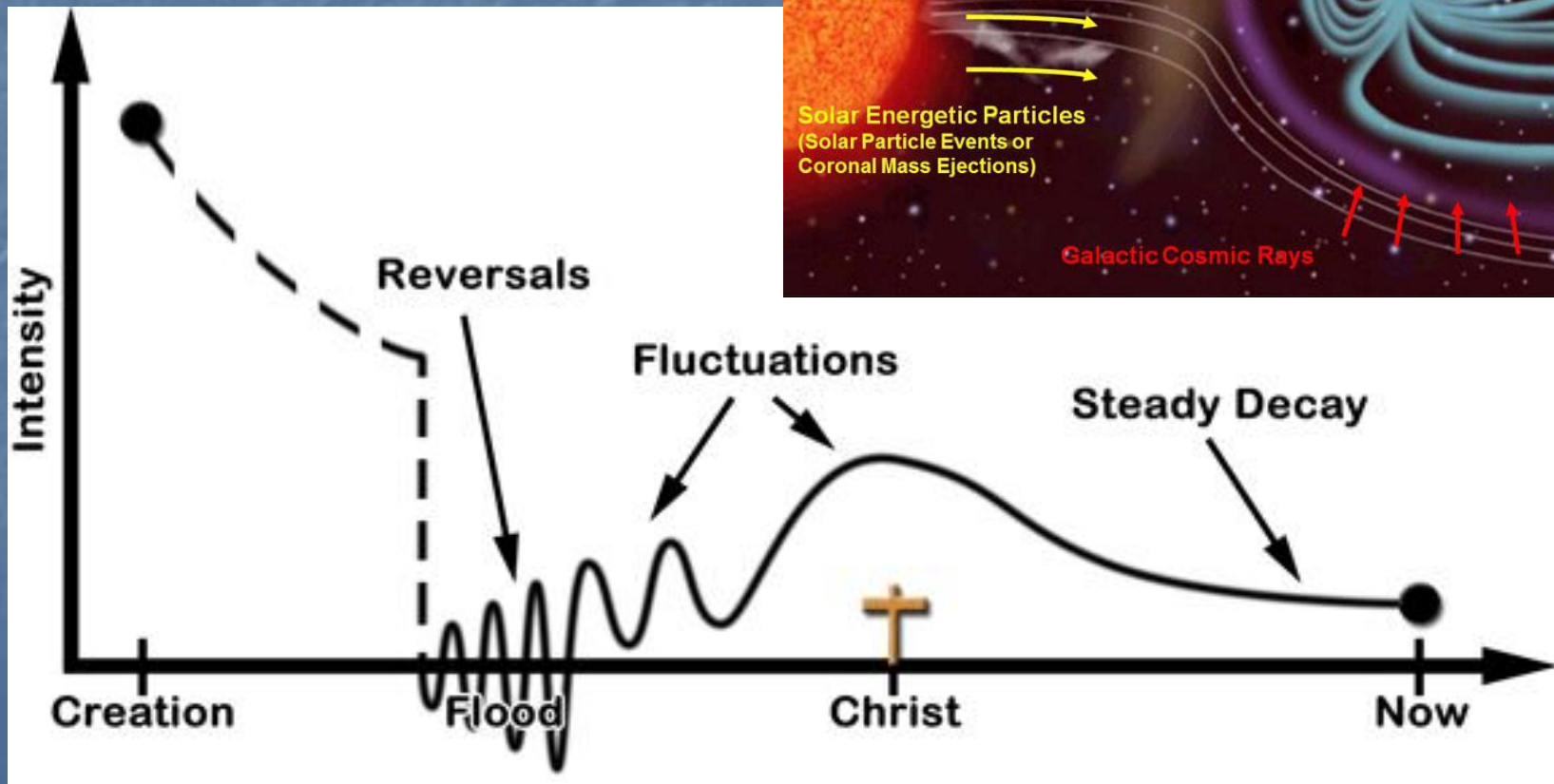
Antarctica coal seam



Sandstone & Shale Rock

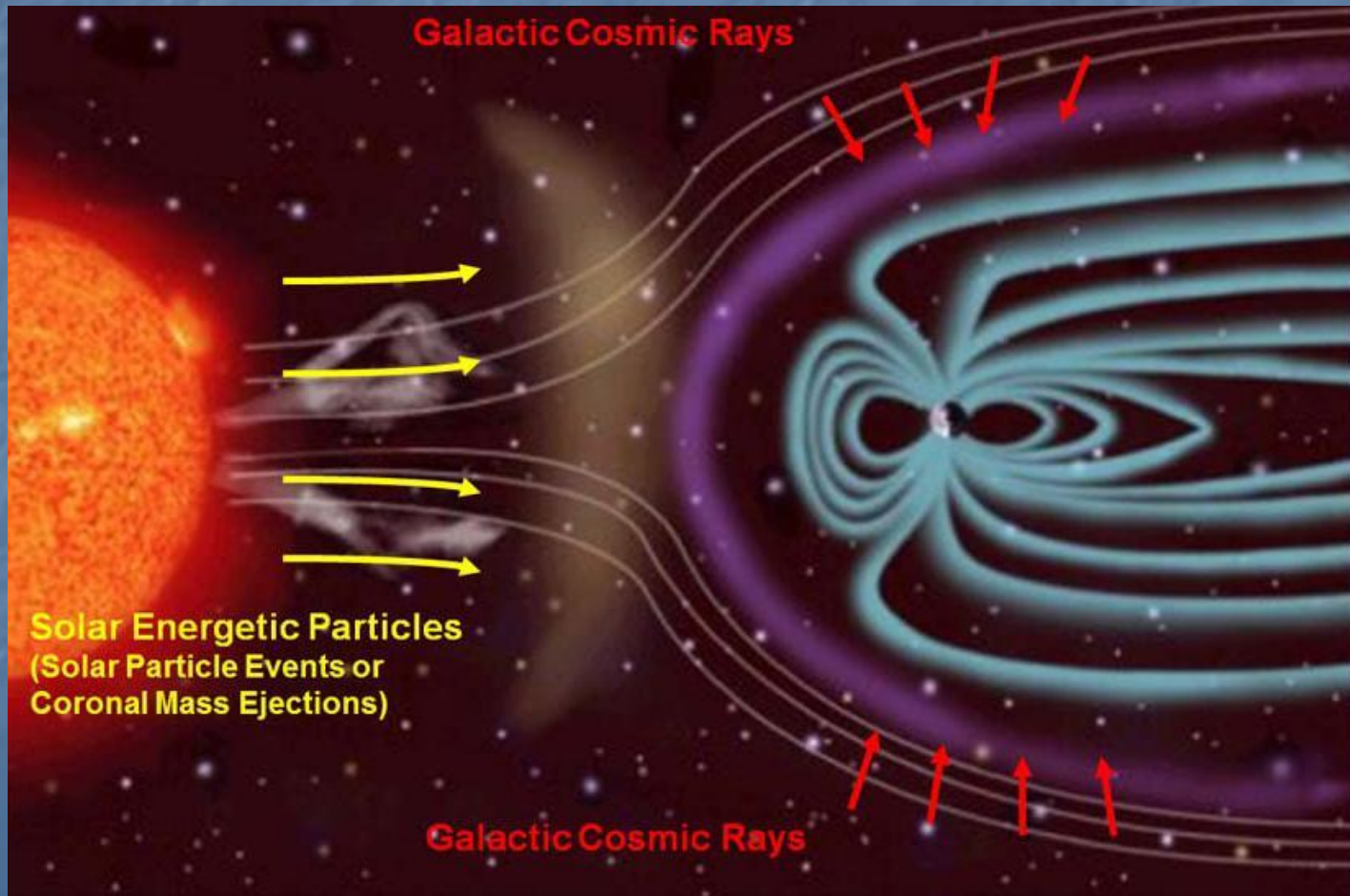
Oil & Gas Deposits

# Weakening Magnetic Field



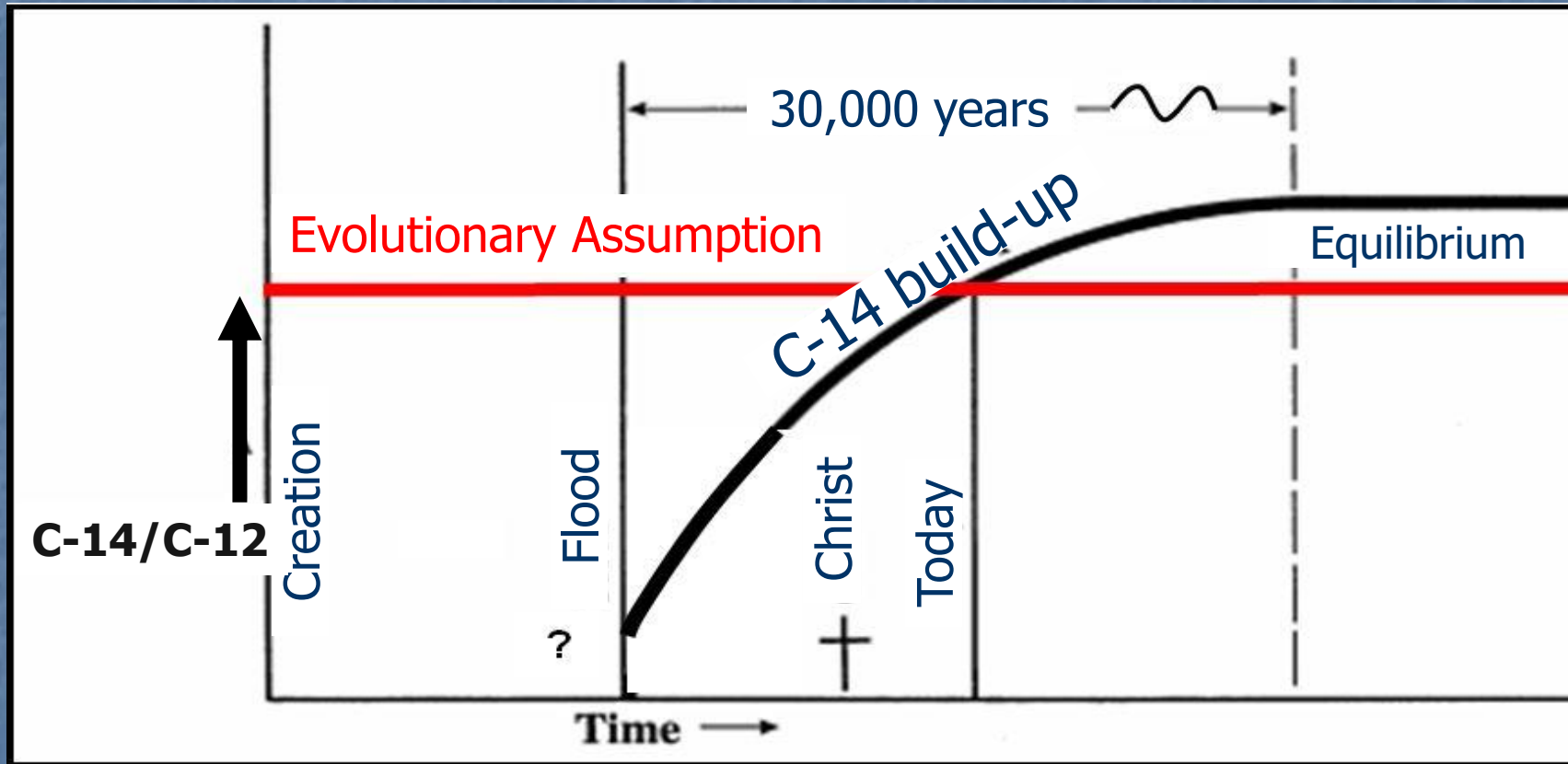


# Stronger Magnetic Field in the Past Resulted in Lower C-14



# Radiocarbon Dating

(Constant C-14 to C-12 ratio is not true)



C-14 is still increasing  
It has not reached equilibrium

# Carbon-14 in Fossils, Coal, and Diamonds



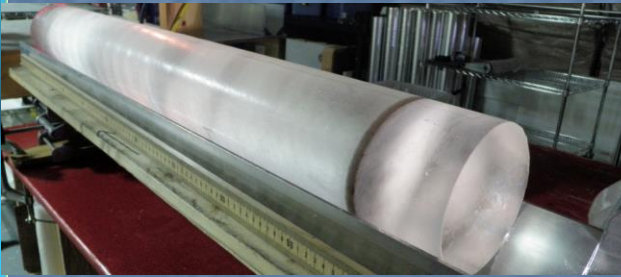
Diamonds and coal are conventionally dated at hundreds of millions yrs old



# Ice Cores - Interpreting the Evidence According to their Worldview



"Annual rings"



Ice core  
layers

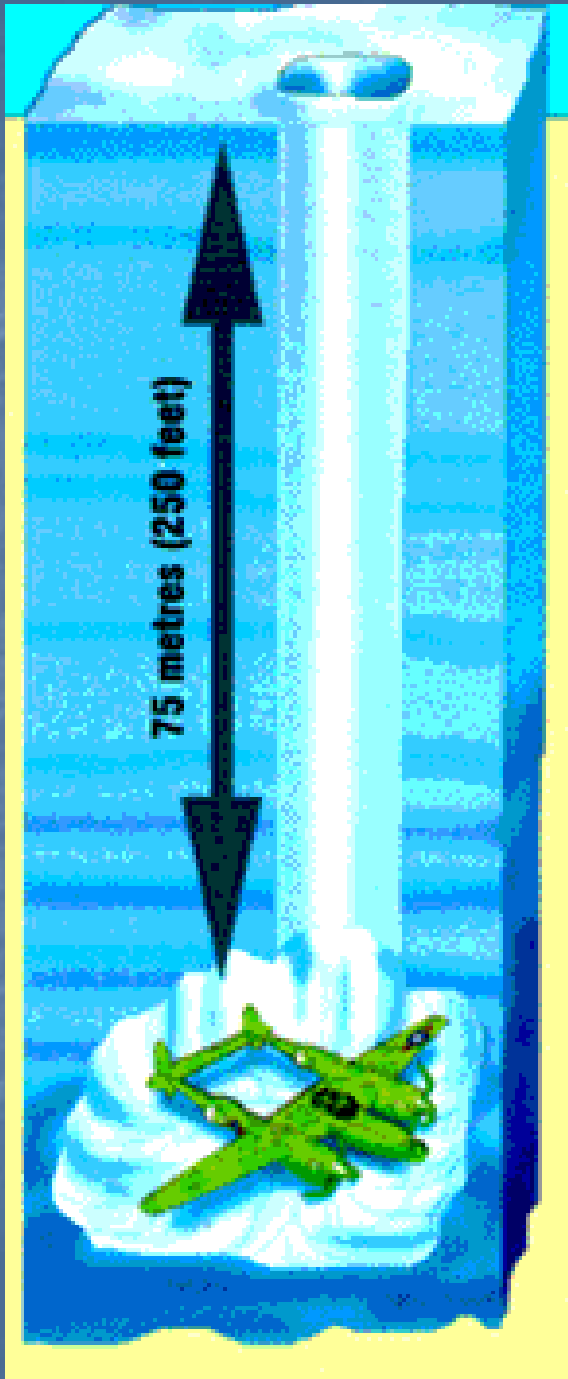


"Warm and cold  
period rings"

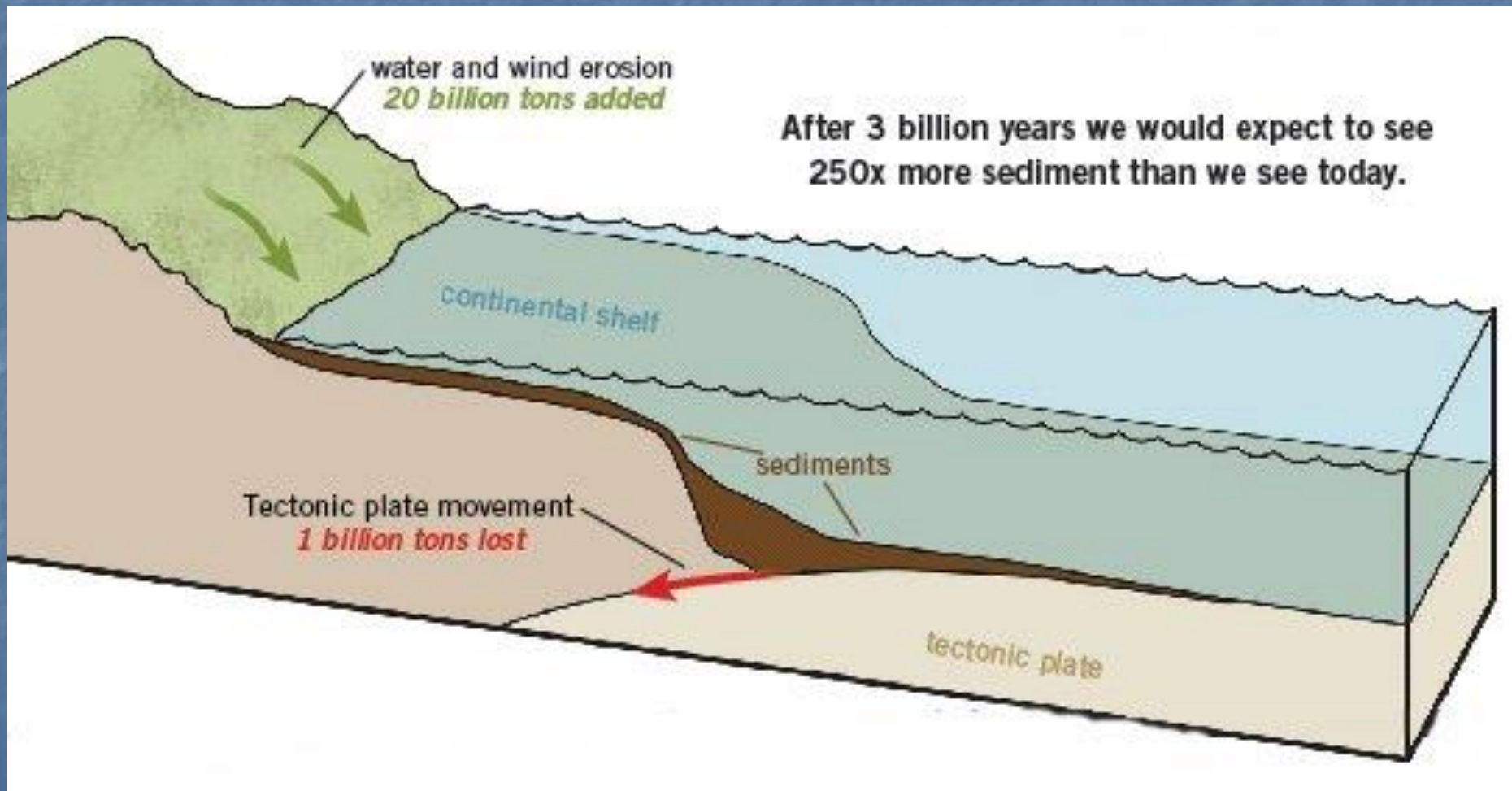
# Ice Core Dating



A WW 2 (P-38) fighter (shown restored) crash landed in 1942 in Greenland. It was buried in 75 meters of ice and recovered in 1992 (buried 50 yrs).



# Very Little Seafloor Sediment





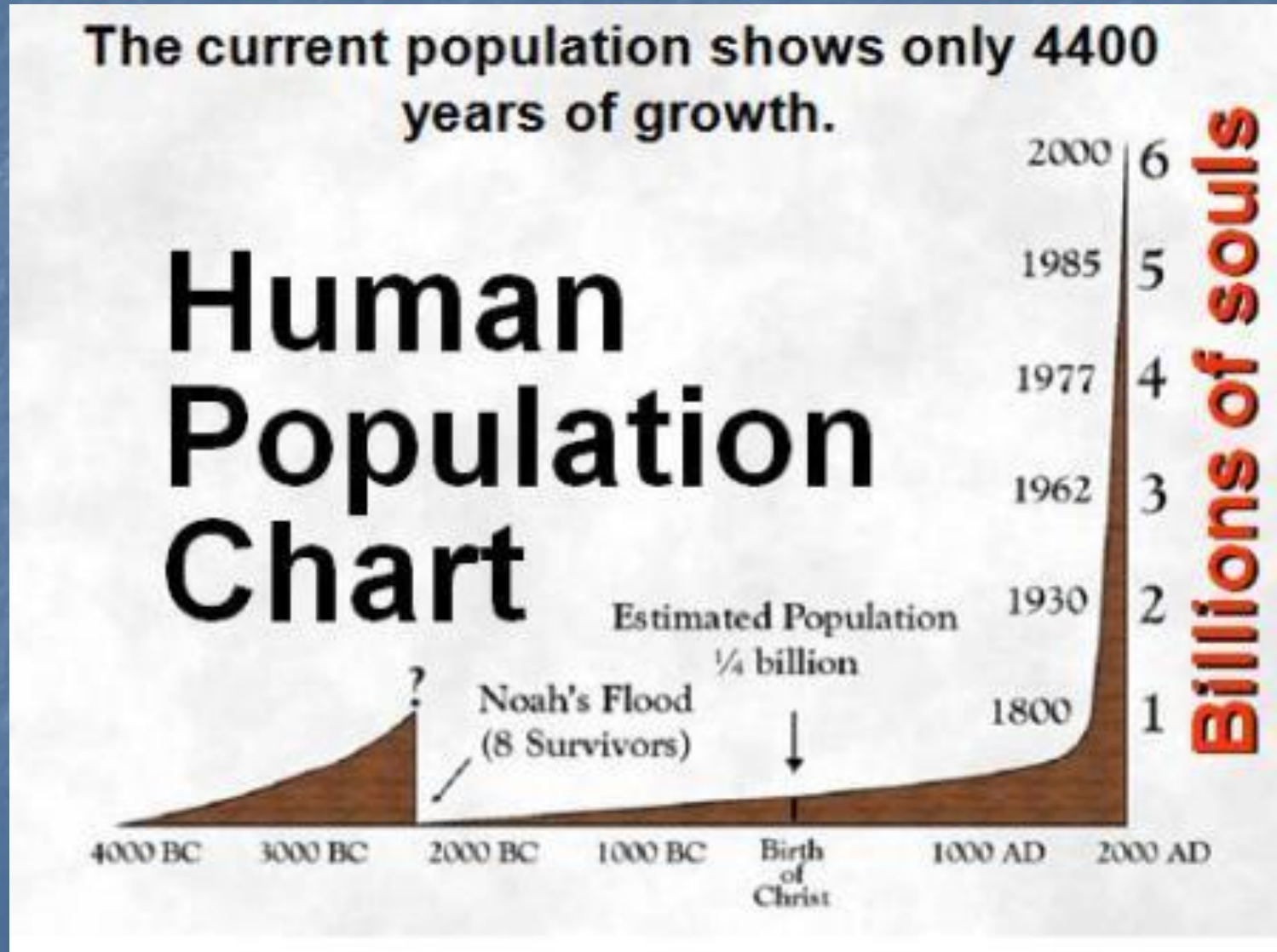
# Oil Pressure

- Oil and gas are contained in earth's rock layers at great pressure
- Pressures are as high as 20,000 psi
- Even low permeable rocks cannot maintain that pressure for millions of years



224 ft "gusher"

# Population fits Biblical Framework



# World Population Growth



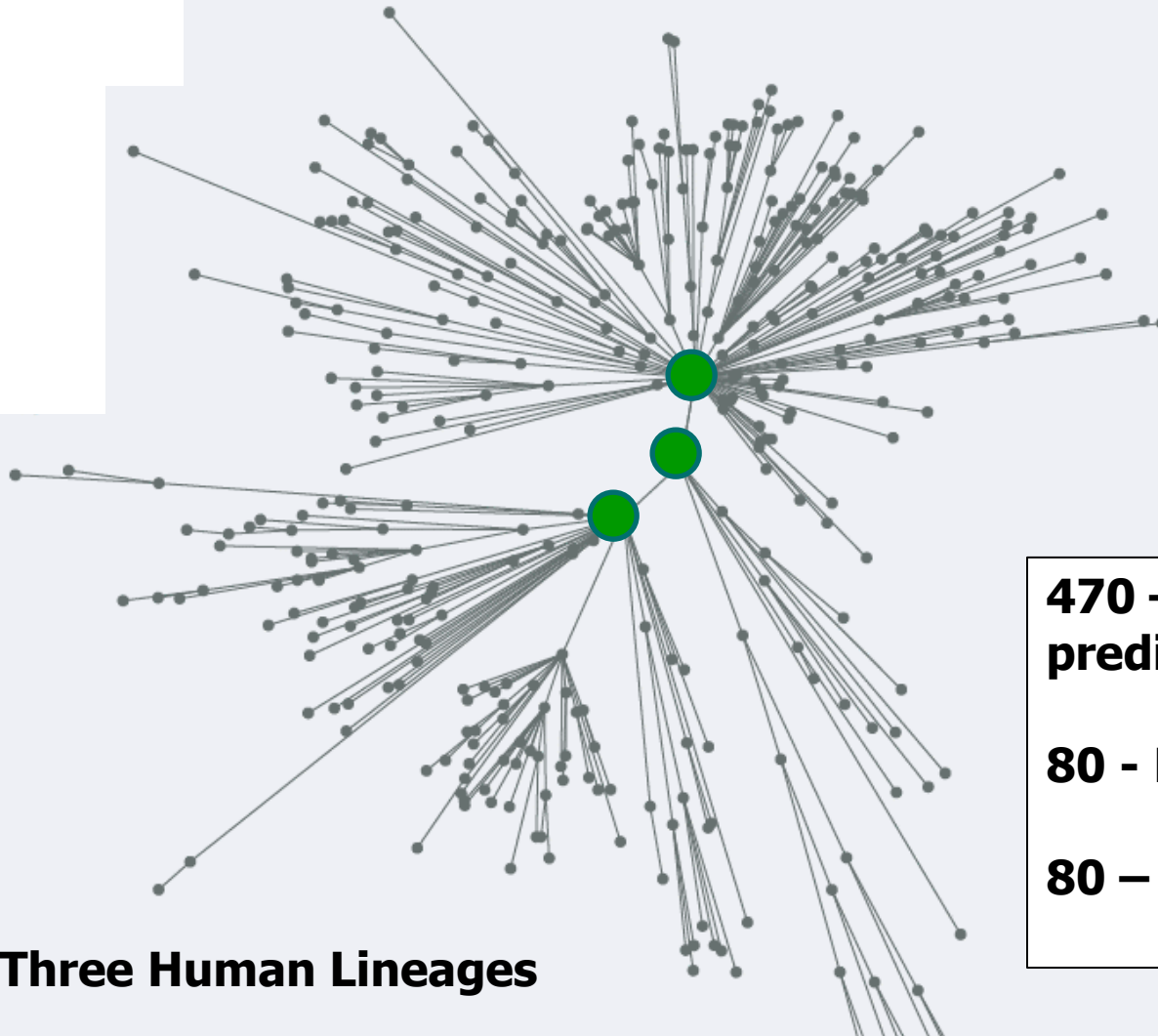
“Hmm, no growth  
for about 190,000  
years”



“Yep, average  
annual growth  
of about 1/2%”



# Genetic Mutations discovered in Human Mitochondrial DNA



**470 – Evolutionary prediction**

**80 - Biblical prediction**

**80 – Actual**

# Age of the Earth Summary

- The **Bible** places the age of the earth at about **6,000** years
- All dating methods must follow **three assumptions**
- The youngest date is the **limiting factor**
- **Radiometric dating** is **unreliable** and **inconsistent**
- **Helium diffusion rates** support a young earth

# Evidence for a Young Earth (cont.)

- Radiocarbon dating
- Ice cores are NOT definitive evidence for an old earth.
- Earth's magnetic field
- Sea floor sediments
- Oil and gas pressure
- Human population growth/mutations