

**Dr. Terry Mortenson**

# ***Big Bang: Exploding the Myth***

**1:1**

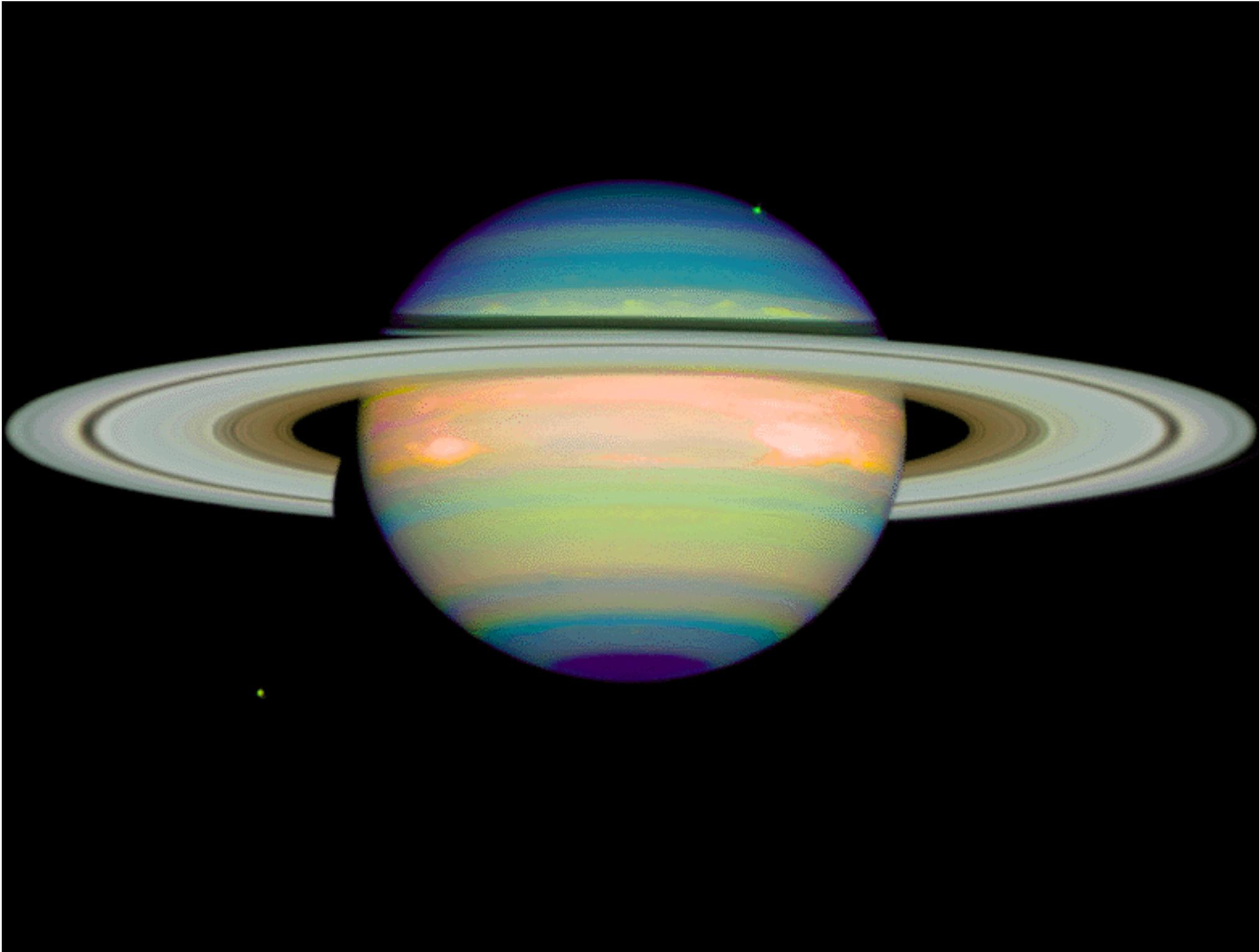
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**Designed by Dr. Terry Mortenson**

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# Butterfly Nebula

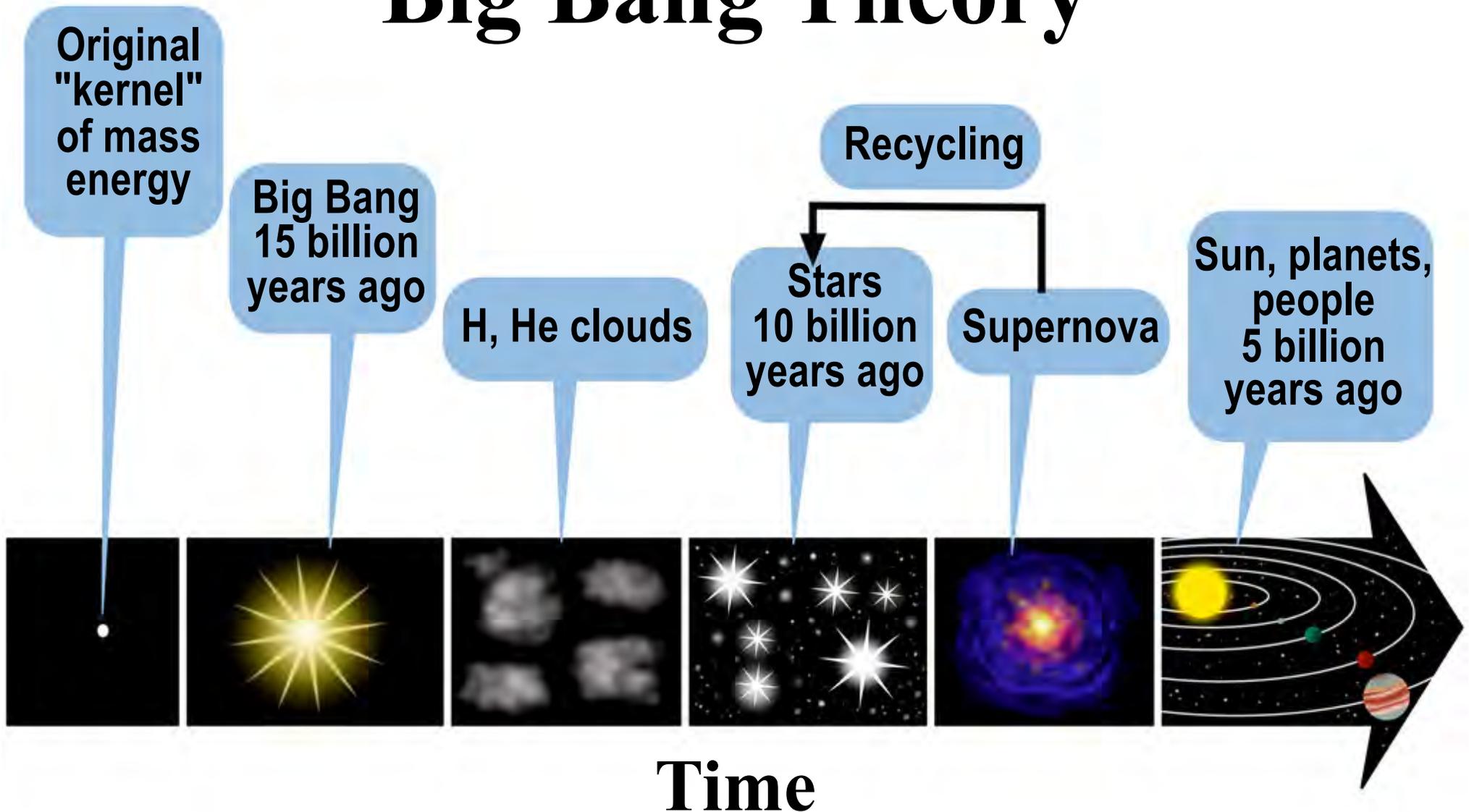


NASA/ESA/STSCI



**The Helix Nebula**

# Big Bang Theory



**Operation Science**

**vs**

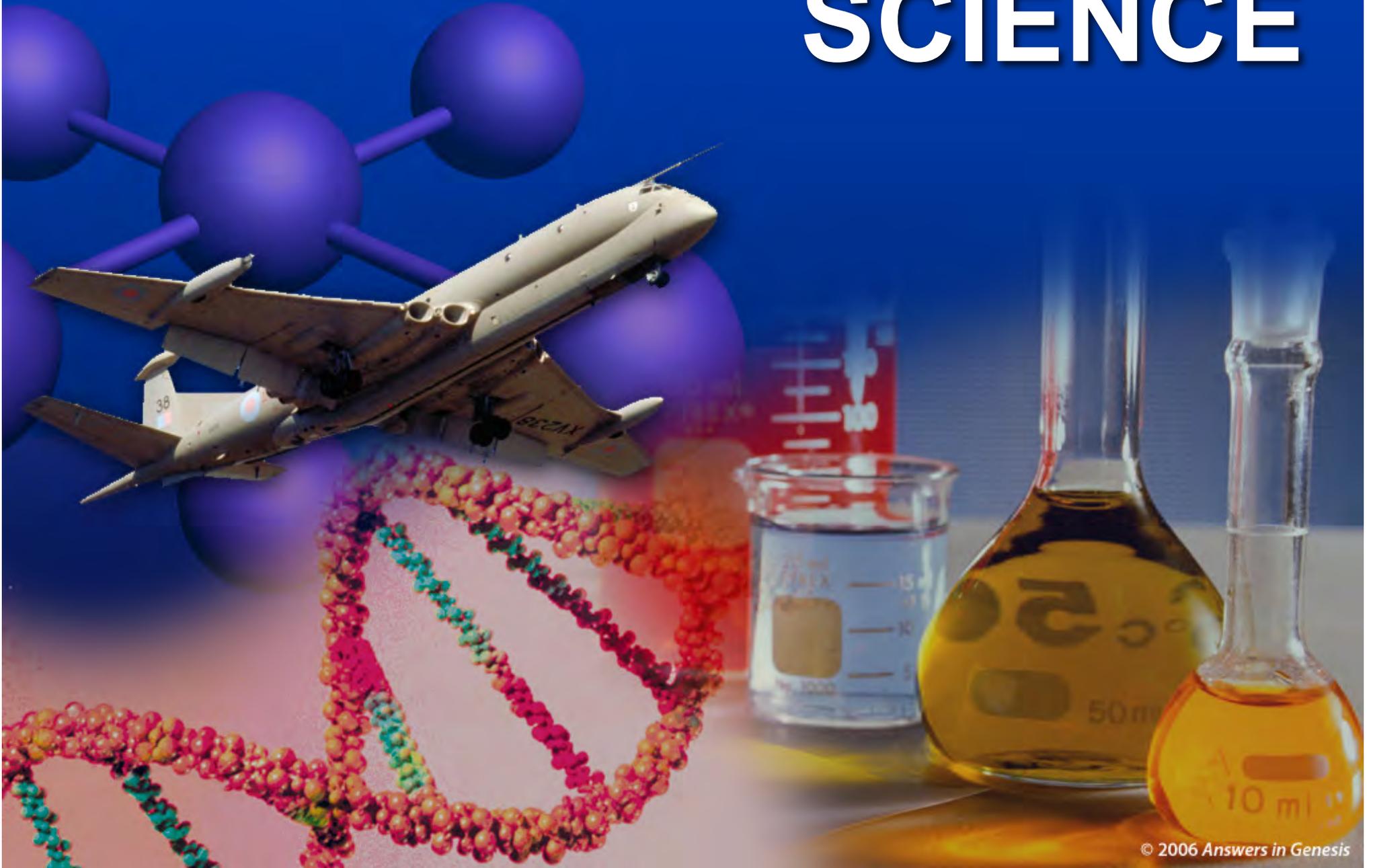
**Origin Science**

# OPERATION SCIENCE

"Scientific Method"

The use of **observable, repeatable experiments** in a **controlled environment** to discover patterns of **recurring behavior** in the **present** physical universe.

# EXPERIMENTAL SCIENCE



# **ORIGIN SCIENCE**

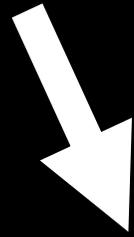
## **"Legal-Historical Method"**

The use of reliable, **eyewitness testimony** (if available) and **circumstantial evidence** to determine the cause(s) of some **past, unobservable, singular event.**

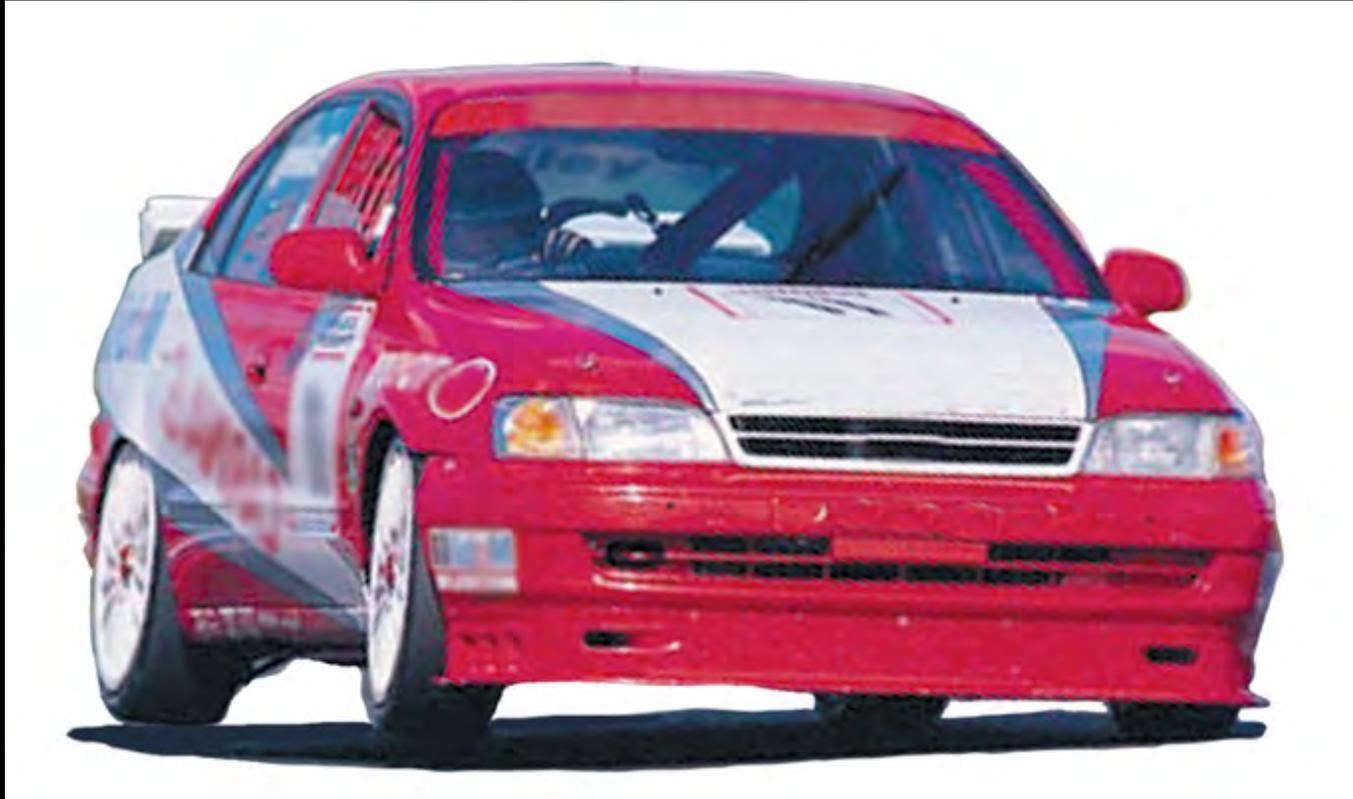
# HISTORICAL SCIENCE



**Car Mechanic  
(Operation Scientist)**



**Car Manufacturer  
(Origin Scientist)**





**Operation** science

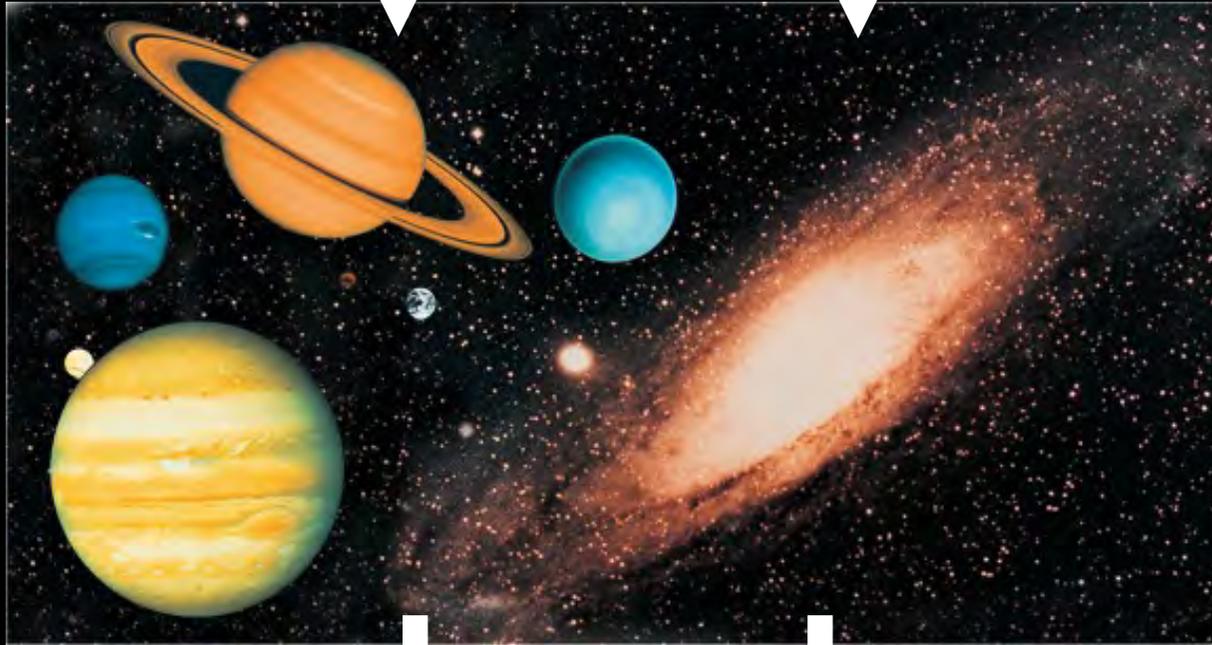
**Origin** science



**PLANETS & STARS**

**NATURALISTIC  
ASSUMPTIONS**

**BIBLICAL  
ASSUMPTIONS**



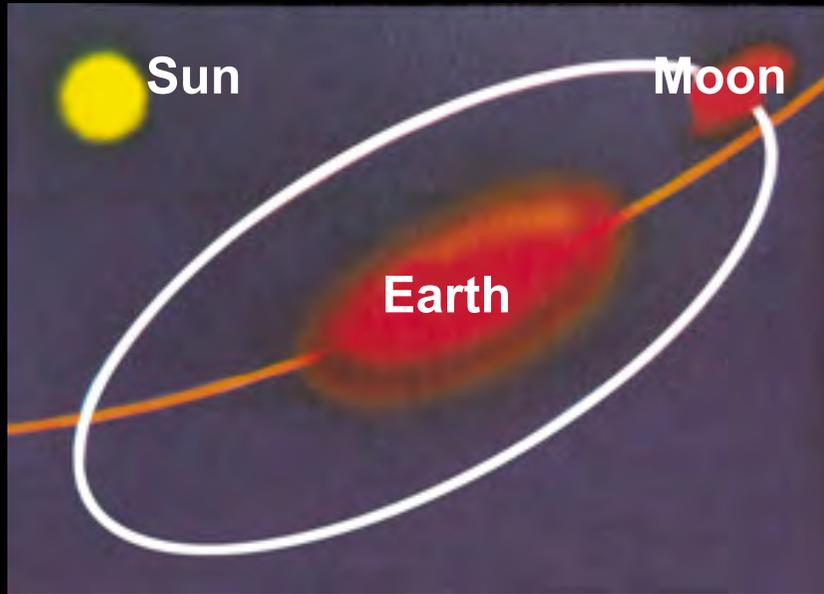
**BIG BANG &  
BILLIONS of YEARS**

**DESIGNED, YOUNG  
UNIVERSE**

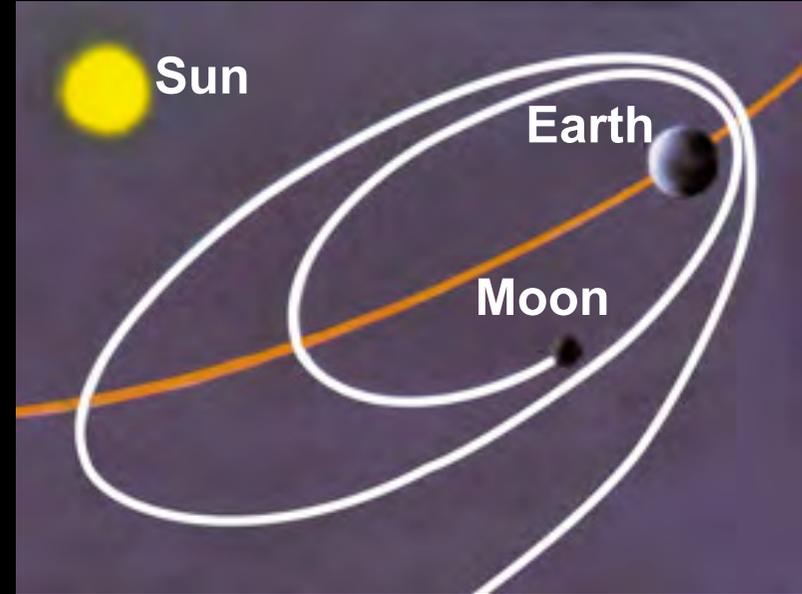
# Origin of the Moon?



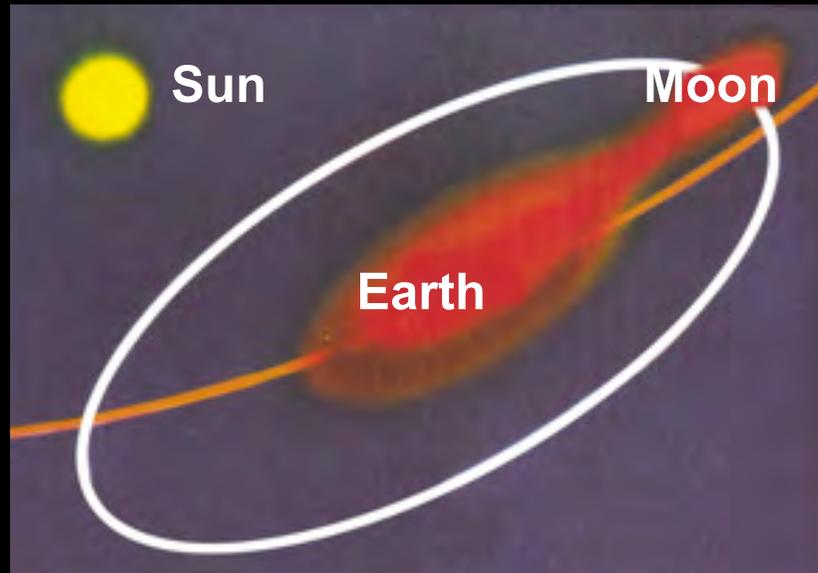
# Sister Theory



# Wife Theory



# Daughter Theory



# Origin of the Moon?

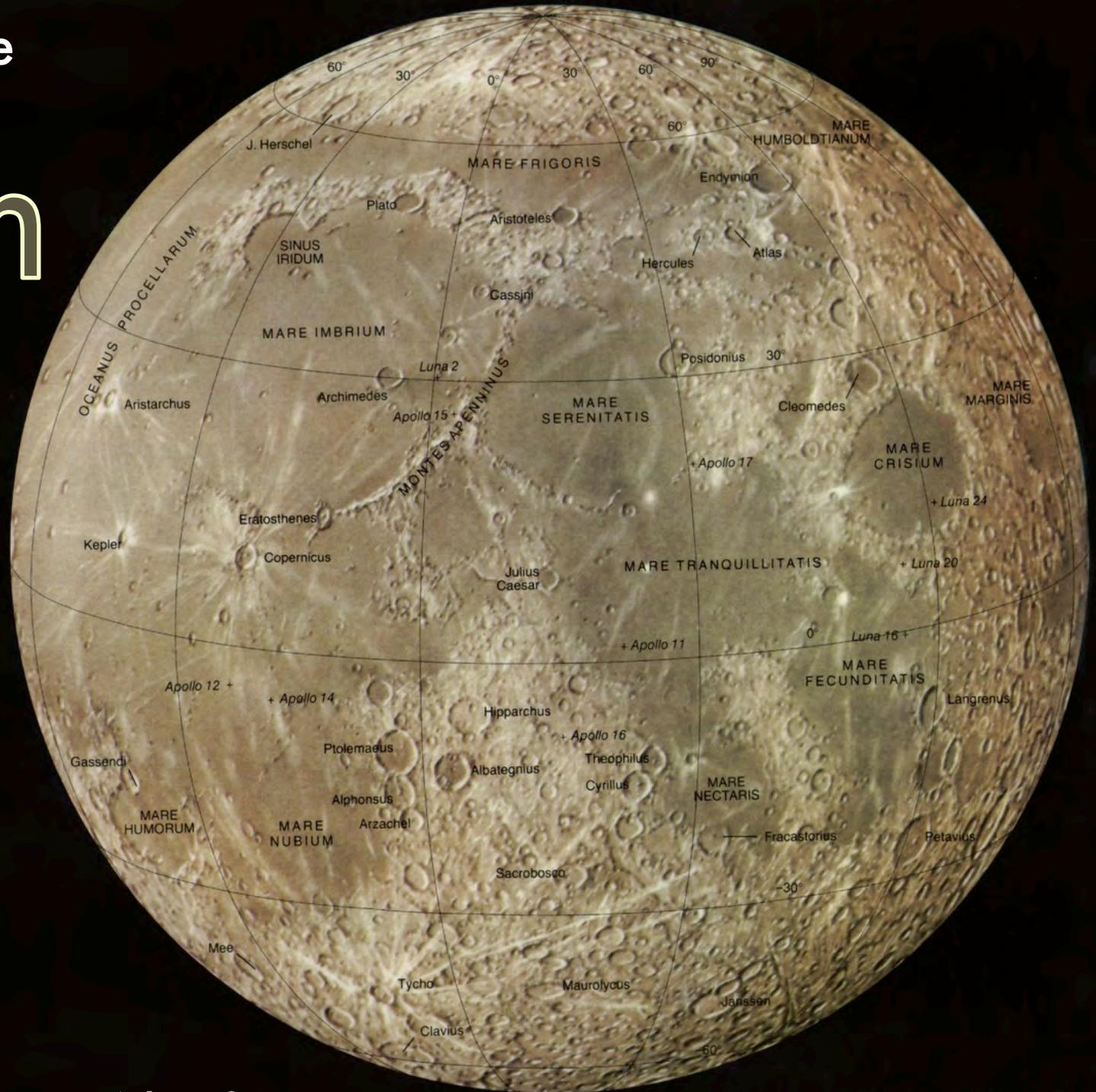


**Giant Impact Theory**

"In fact, the story of the Moon's origin is still **slim on details**. Experts are divided over whether the collision happened before or after Earth had grown to its present size."

Karen Wright, "Where did the Moon come from?," *Discover*, 24:2 (Feb. 2003), p. 63.

# The near side of the Moon



# Moon different than Earth

- Not a single molecule of water has been found in recovered Moon rocks.
- The Moon lacks an iron core like the Earth has.

Karen Wright, "Where did the Moon come from?," *Discover*, 24:2 (Feb. 2003), 63.

# Solar Eclipse







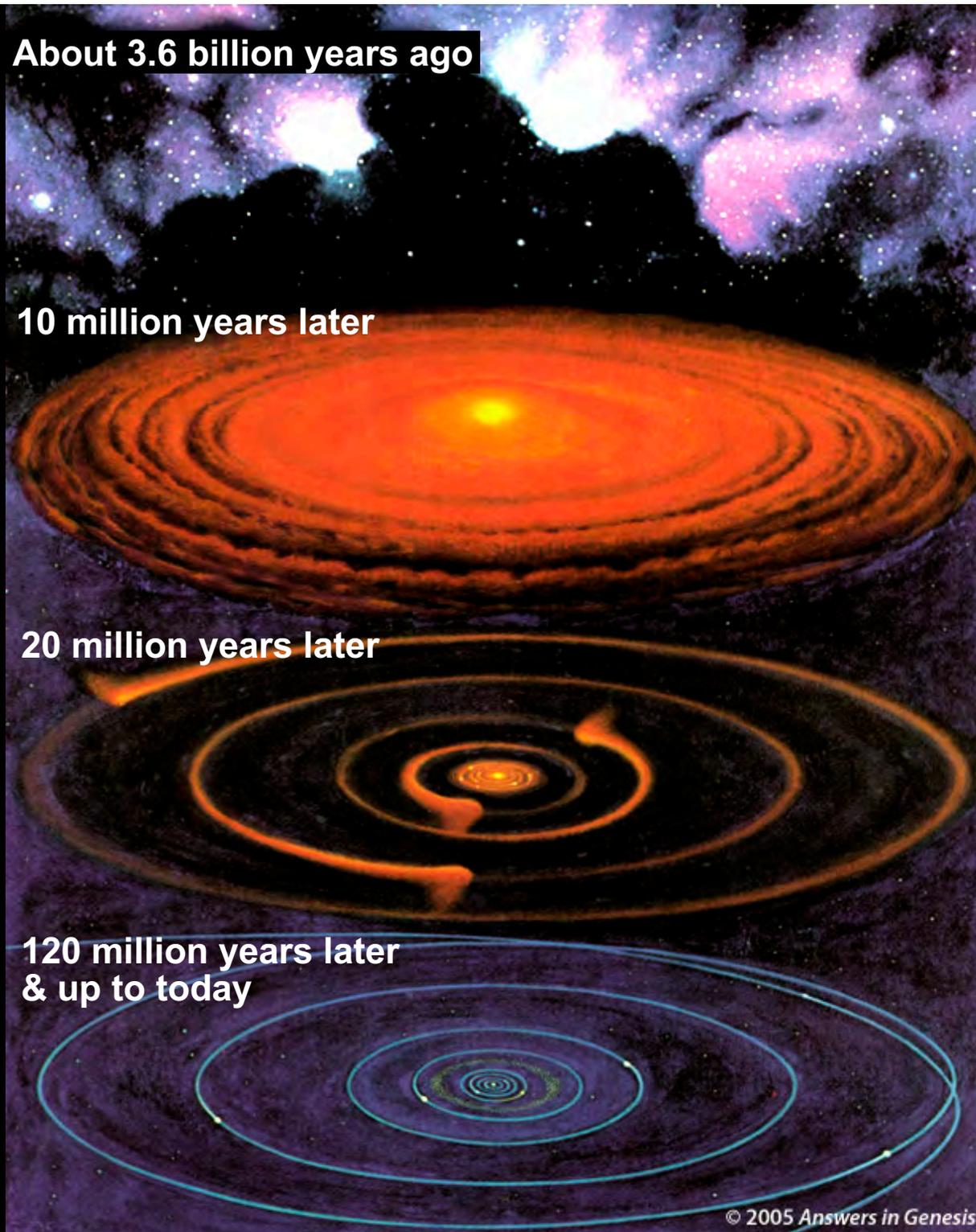
# Origin of the Solar System?

**About 3.6 billion years ago**

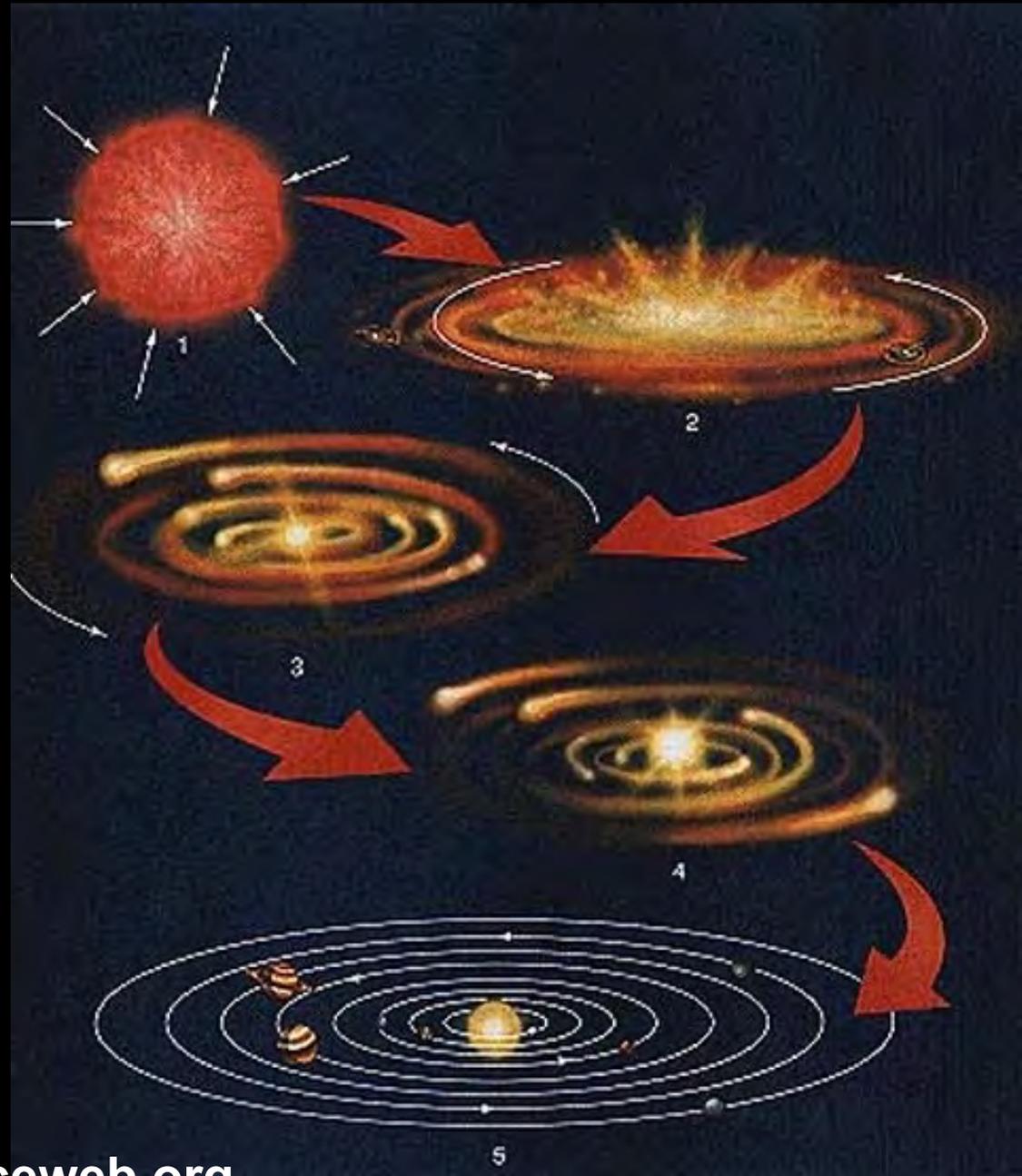
**10 million years later**

**20 million years later**

**120 million years later  
& up to today**



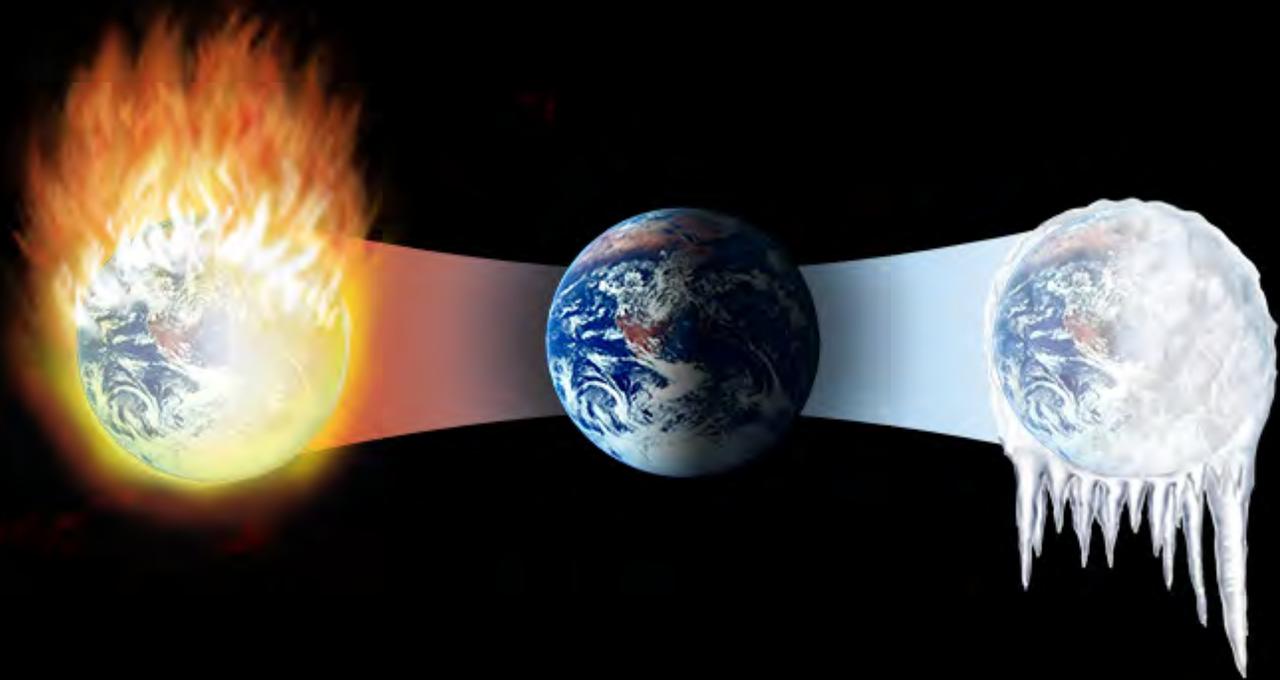
# Birth of the Solar System?



<http://www.aerospaceweb.org>



# **EARTH** is the right distance from the **SUN**



**Too close:  
BURN UP**

**Too far:  
FREEZE**

Not to scale

Neptune

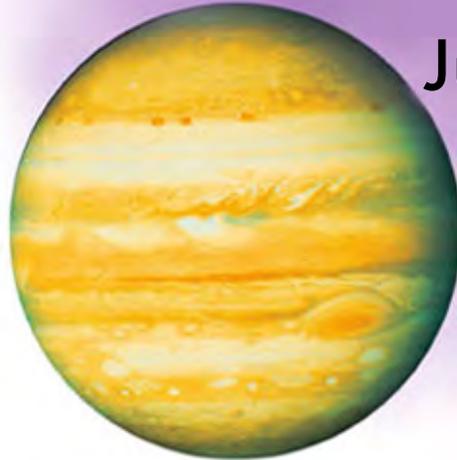


Saturn



**Gas with  
liquid center**

Jupiter



Uranus



- Mercury
- Venus
- Earth
- Mars
- Pluto

**Solid**

**Sun**

**98% helium & hydrogen**

**Mercury**

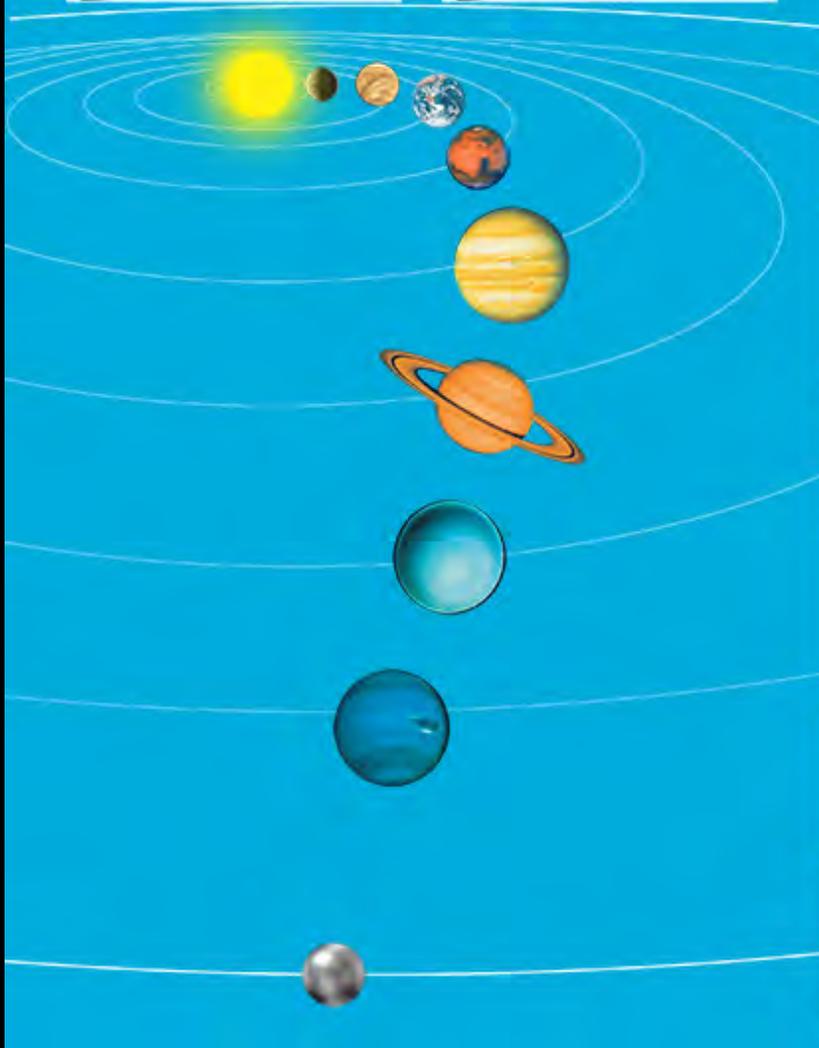
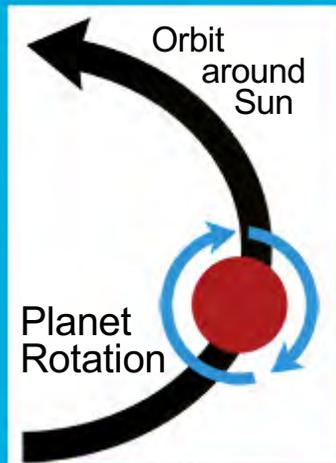
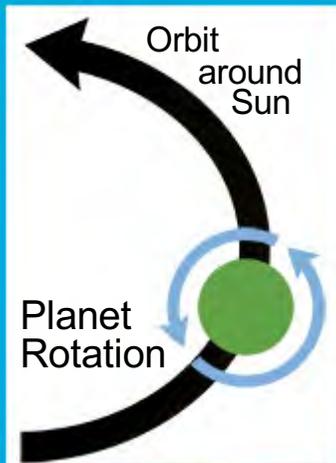
**Venus**

**1% helium & hydrogen**

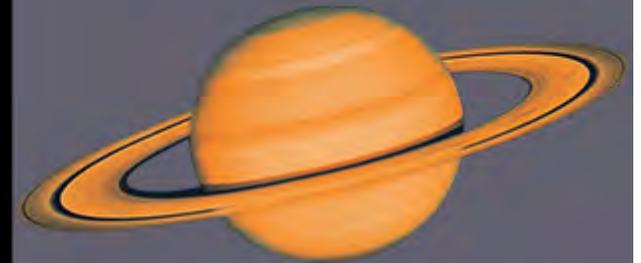
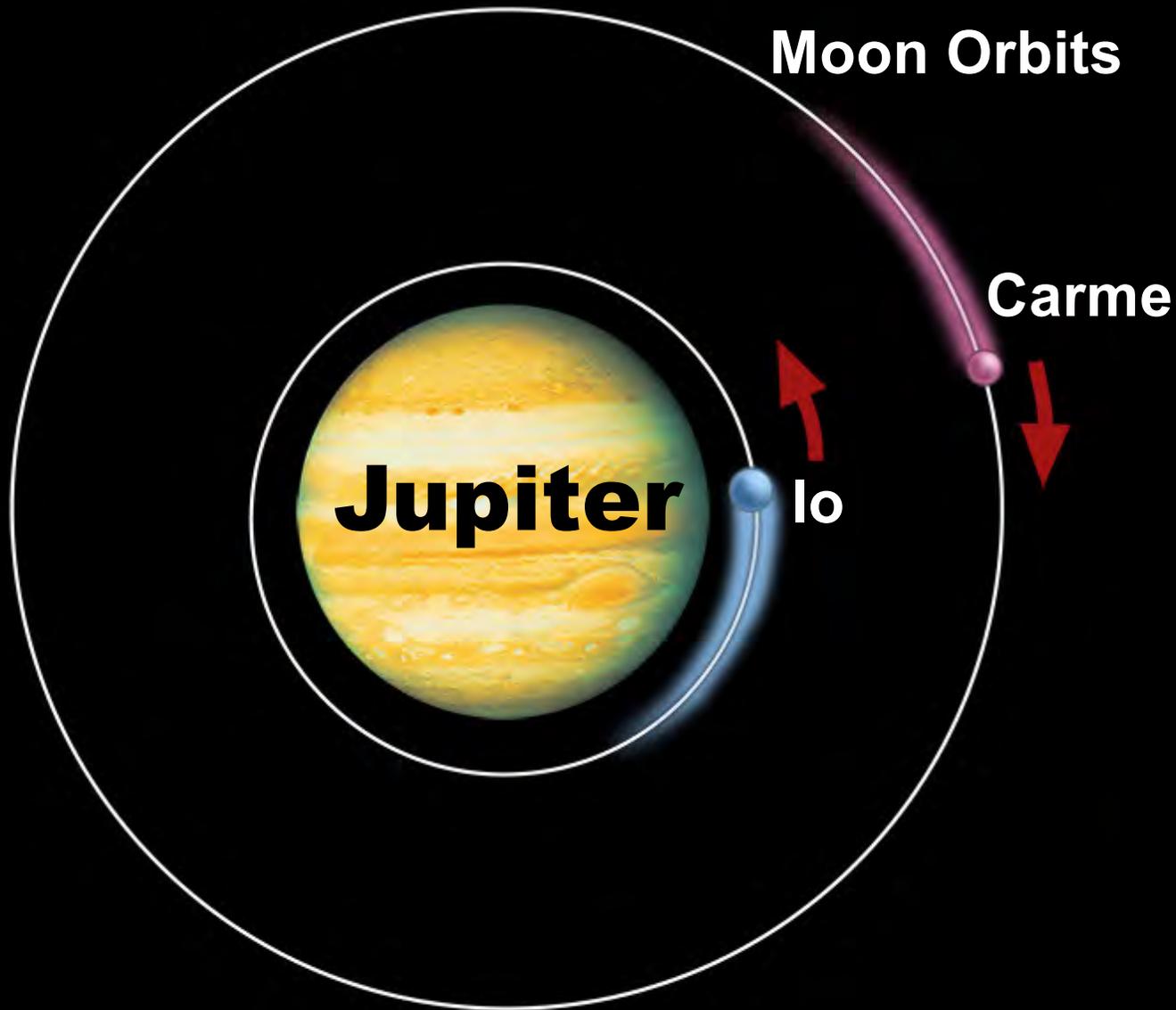
**Earth**

# The planets have:

- different orbits
- different speeds of rotation
- different tilts of the axis
- different numbers of rings or moons, or both
- different atmospheres



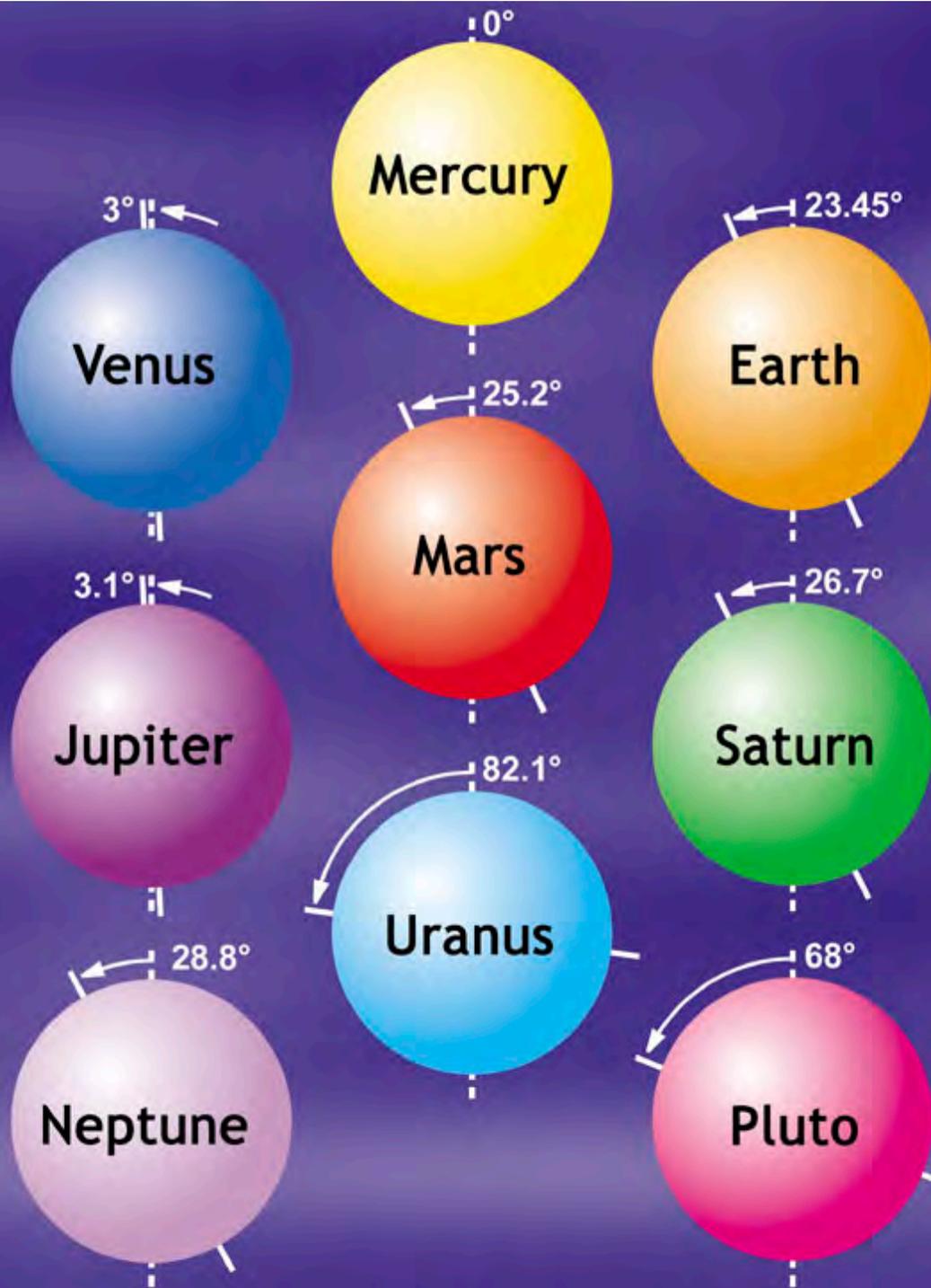
# Moons in Both Directions



**Saturn**



**Neptune**



"Our brief survey has revealed the **structure and content** of the Solar System, but the story is not closed. We can successfully **interpret** many of the observed features, such as the sources of meteorites. However, a **plethora of unanswered questions** remain concerning the **origin** of these features. These unresolved questions prompt tentative answers (Chapter 7).

Michael Zeilik & Elske Smith, *Introductory Astronomy & Astrophysics* (Philadelphia: Saunders College Publ., 1987), p. 33.

**"The fundamental question is how and why the Solar System originated. Why are there five tiny terrestrial planets and four huge Jovian planets? ... Why do the planets move in direct orbits near the ecliptic plane?"**

The angular momentum distribution of the Solar System is also **a puzzle**. ... the planets contribute 97 percent of the angular momentum of the system. Why doesn't the much more massive Sun provide the dominant contribution?"

Zeilik (1987), p. 33.

**"Was there a primordial rotation rate, and if so, why do the terrestrial planets rotate much more slowly than the Jovian planets? ... Why do Venus and Titan and the Jovian planets have such dense atmospheres? What sculpted the surfaces of planets and satellites? ... Why do the rings of Saturn, Jupiter and Uranus differ so? ... How were comets formed, and how many are out there?"**

**Zeilik 1987, p. 33**

"We think the **most basic questions** must be answered by any model pretending to account for our Solar System. Until such a model is forthcoming, we can only accept what we see and attempt to decipher the **riddle** before us."

Zeilik (1987), p. 33.

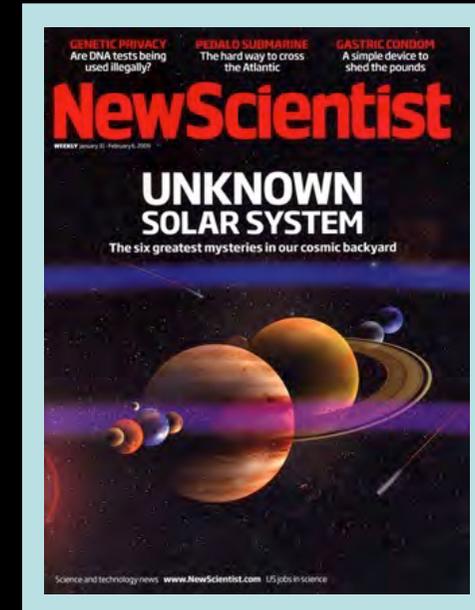


31 Jan. 2009

"Unknown Solar System"

# "6 Enduring Mysteries"

- **How the solar system formed?**
- **Why the sun and moon are the same size in the sky?**
- **Is there a planet X?**
- **Where do comets come from?**
- **Is the solar system unique?**
- **How will it end?**

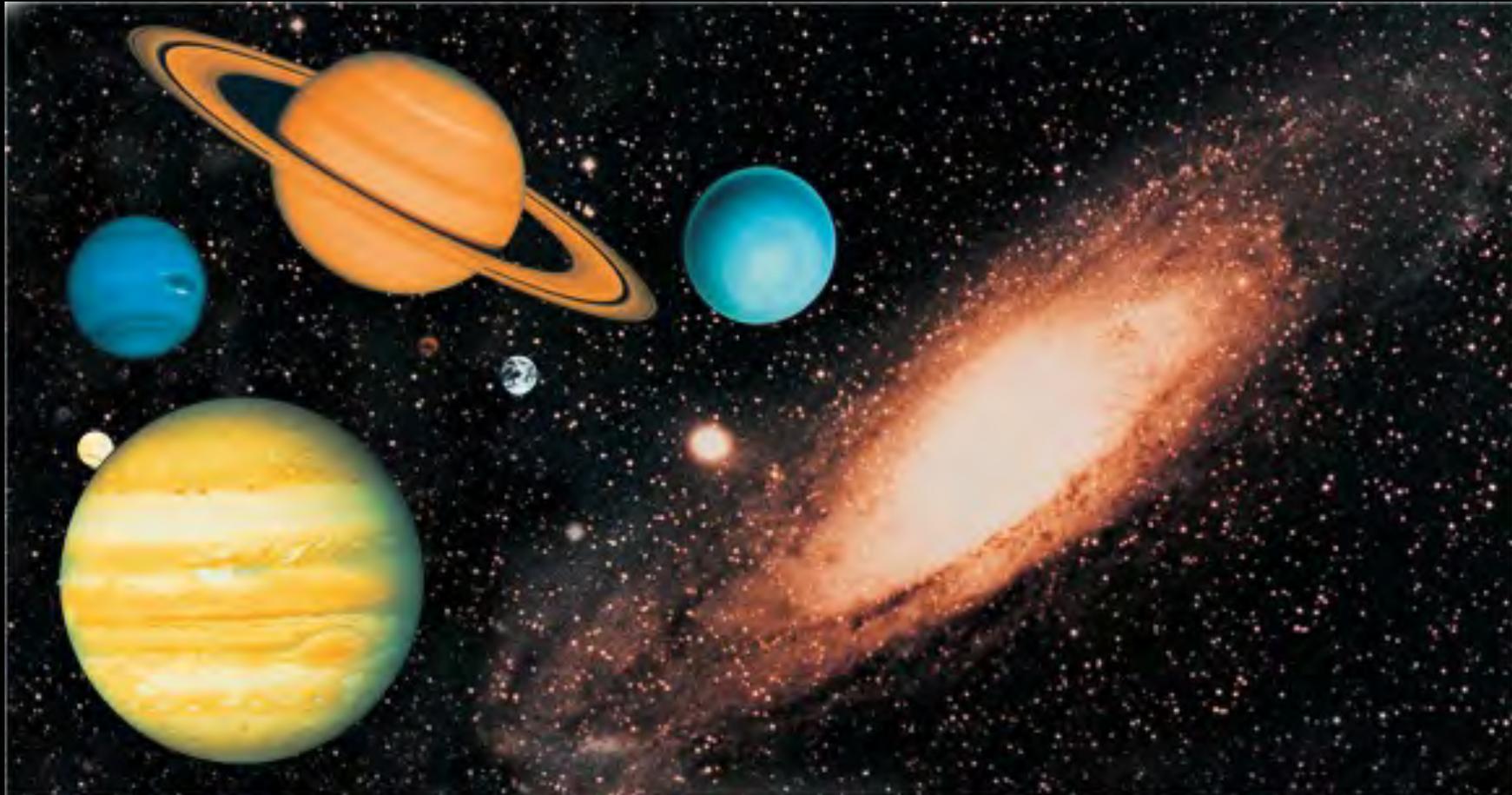


Stephen Battersby, "Our Unknown Solar System,"  
*New Scientist* 201:2693 (31 Jan. 2009), pp. 29-35.

**Operation** science



**Origin** science



# Origin of stars and galaxies?

**"Among the most important relics are the structures we see in the sky: many stars are grouped into clusters, the clusters themselves along with loose stars like our sun are grouped into galaxies, and the galaxies themselves are grouped into clusters of galaxies."**

**Steven Weinberg, "Origins," *Science*, 230:4721 (Oct. 4, 1985), p. 16.**

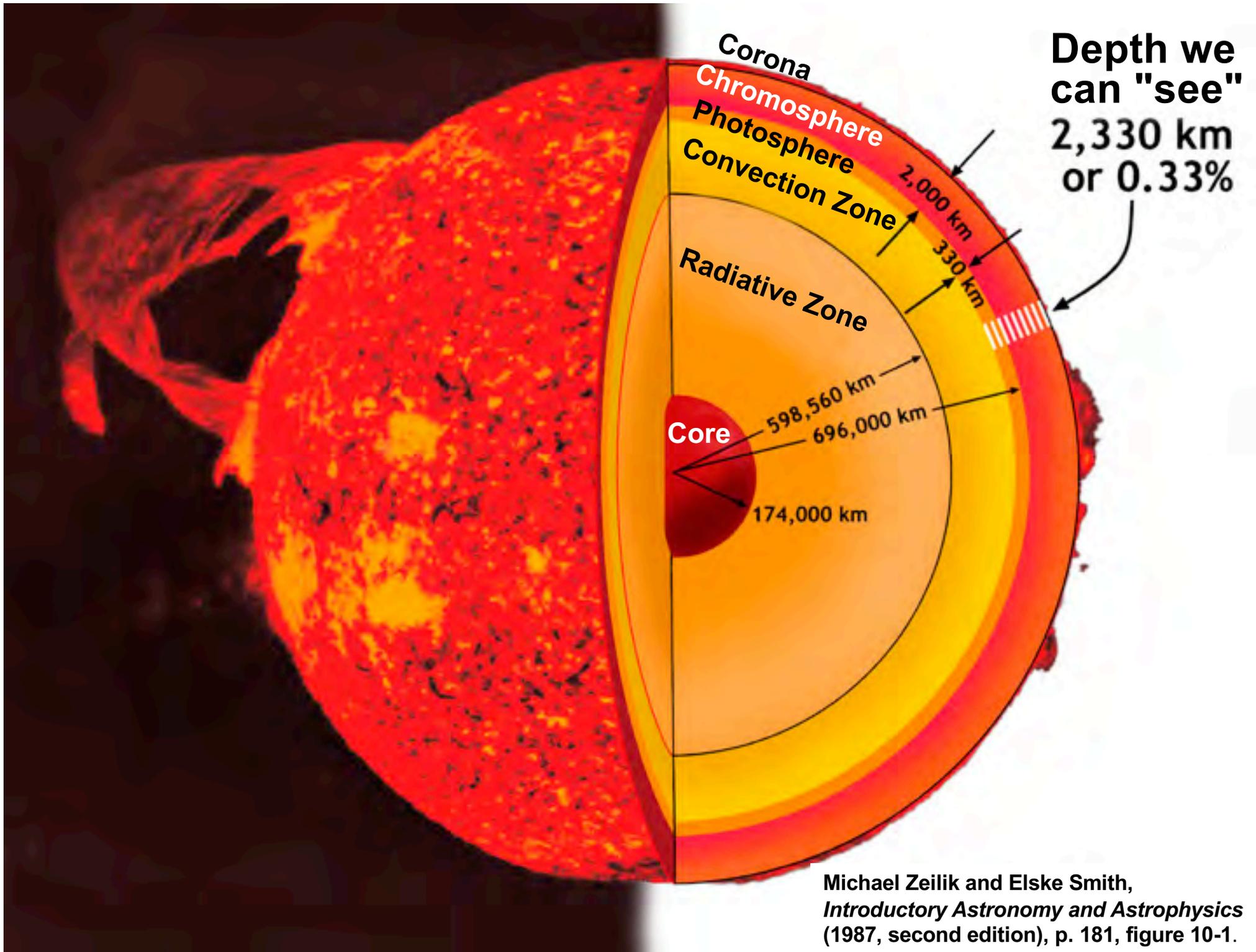
"A second great disappointment of astrophysics has been that we still do not have a clear and detailed understanding of how these structures were **formed. We do not even know** whether the smaller structures formed first and then coalesced into the larger ones, or whether the larger structures formed first and then broke up into the smaller ones."

Weinberg (1985), p. 16

"It is also a bit disturbing that all these **estimates** of the ages and compositions of the stars rest on **elaborate calculations** of what is going on inside them, but **all that we observe is the light emitted from their surfaces.**"



Weinberg (1985), p. 16.



Michael Zeilik and Elske Smith,  
*Introductory Astronomy and Astrophysics*  
(1987, second edition), p. 181, figure 10-1.

## LET THERE BE LIGHT



**A FIRST STAR** is born in Penn State astronomer Tom Abel's virtual observatory. (1) A computer simulation isolates a molecular cloud of hydrogen, thousands of light-years across, roughly 100 million years after

the Big Bang. (2) Dense concentrations of hydrogen develop over millions of years. (3) The model zooms in on an area 100 light-years across, revealing an embryonic fireball 1 million times the mass of our sun.

**"A FIRST  
STAR is born  
in Penn State  
astronomer  
Tom Abel's  
virtual  
observatory."**

Tim Folger, "The Real  
Big Bang," *Discover*  
(Dec. 2002), p. 44.

"Most of the Universe's mass is invisible and no one really knows what it is. ...

**Star formation is shrouded in mystery.**

Generally speaking, a star forms when a cloud of gas collapses under gravity.

However, if the cloud is too hot, pressure will combat the effect of gravity and prevent the cloud from collapsing.

So to form a star, the gas cloud must have a way of cooling down."

Marcus Chown (astronomer), "Let there be light,"  
*New Scientist*, 7 Feb. 1998, pp. 28 & 29.

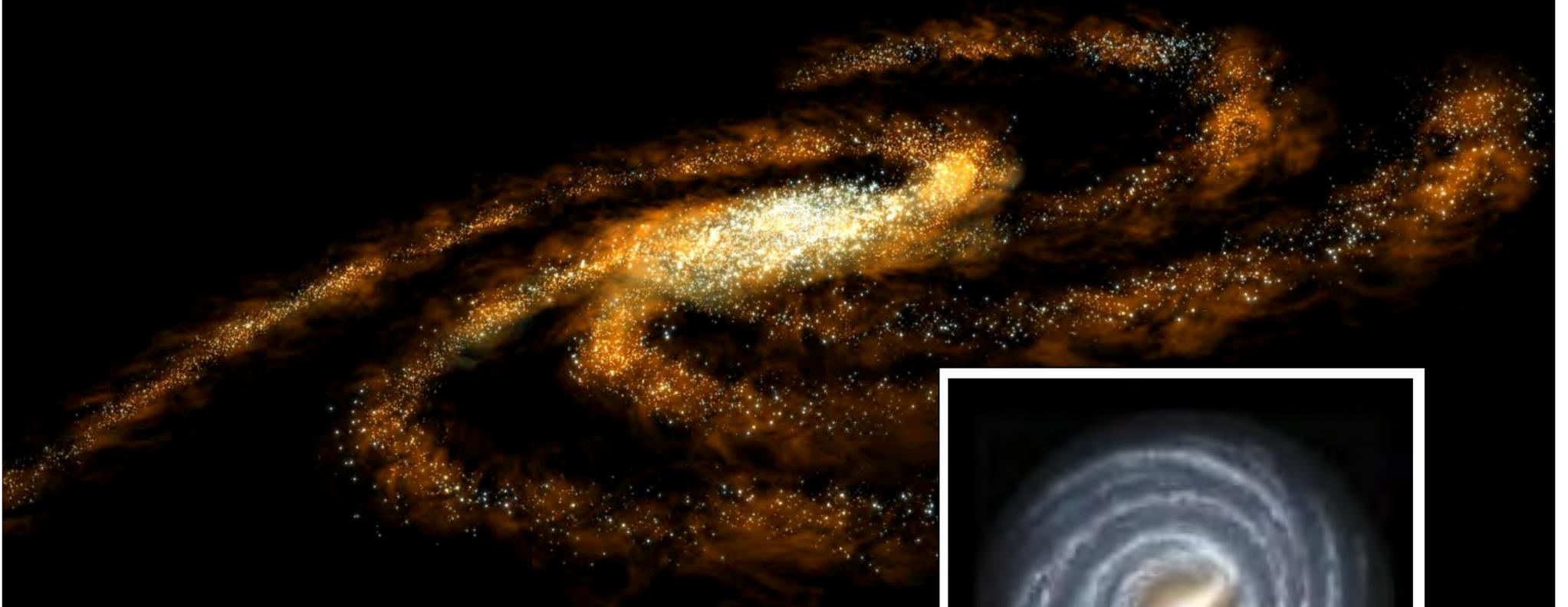
"This isn't as easy as it sounds. In today's Universe this is accomplished by a huge array of molecules which collide and radiate away the heat. However, the atoms necessary for making all but the simplest molecules--molecular hydrogen--have to be made inside stars. **It is a chicken-and-egg situation. ...**"

Chown (1998), p. 30.

"[John] Mather, [NASA's Goddard Space Flight Center in Maryland], says, 'We have **no direct evidence** of how galaxies were formed, how the first stars formed without the help of the prior generation of stars, how galaxies evolved, whether they were formed from aggregations of smaller units or from subdivisions of large ones. Everything happened in the cosmic dark age [between the supposed Big Bang and when the first stars formed]. **It goes right to the heart of the question of how we got here**.'"

Chown (1998), p. 30.

# Our Milky Way Galaxy



# Origin of the Milky Way?

"Our galaxy is a highly evolved entity. ... It is an elegant structure that shows both **order and complexity**. ... The end product is especially remarkable in the light of what is believed to be the starting point: nebulous blobs of gas. How the universe made the Milky Way from such simple beginnings **is not altogether clear.**"

Cristina Chiappini, "The Formation and Evolution of the Milky Way," *American Scientist*, vol. 89 (Nov./Dec. 2001), p. 506.

# Origin of the Universe?

"You may have noticed that, despite all these brave words, **I have not explained the origin of the universe.** The reason, of course, is that this is a matter about which scientists **still have no clear idea.** ... **It may be that we shall never know,** just as we may never learn the ultimate laws of nature. But I wouldn't bet on it."



Steven Weinberg, "Origins," *Science*, 230:4721  
(Oct. 4, 1985), p. 18.

"Big bang theory relies on a growing number of **hypothetical** entities—things that we have **never observed**. Inflation, dark matter and dark energy are the most prominent. Without them, there would be **fatal** contradictions between the observations made by astronomers and the predictions of the big bang theory."



Eric Lerner, "Bucking the Big Bang," *New Scientist*, 182:2448 (22 May 2004), p. 20. Signed by 34 scientists from 10 countries: [www.cosmologystatement.org/](http://www.cosmologystatement.org/).

"In no other field of physics would this **continual** recourse to new **hypothetical objects** be accepted as a way of bridging the gap between theory and observation. It would, at the least, **raise serious questions** about the validity of the underlying theory. But the big bang theory **can't survive without these fudge factors. ...**"



Lerner (2004), p. 20.

"What's more, the big bang theory can boast of **no quantitative predictions** that have subsequently been validated by observation. ... Yet the big bang is **not the only framework available** for understanding the history of the universe. Plasma cosmology and the steady-state model both hypothesise an **evolving universe without beginning or end. ...**"



Lerner (2004), p. 20.

"Supporters of the big bang theory may retort that these theories do not explain every cosmological observation.

But that is scarcely surprising, as their

development has been **severely hampered by a complete lack of funding**. Indeed, such questions and alternatives **cannot even now be freely discussed and examined.**"



Lerner (2004), p. 20.

**"An open exchange of ideas is lacking** in most mainstream conferences. Whereas Richard Feynman could say that "science is the culture of doubt", **in cosmology today doubt and dissent are not tolerated**, and young scientists learn to remain silent if they have something negative to say about the standard big bang model. **Those who doubt the big bang fear that saying so will cost them their funding."**



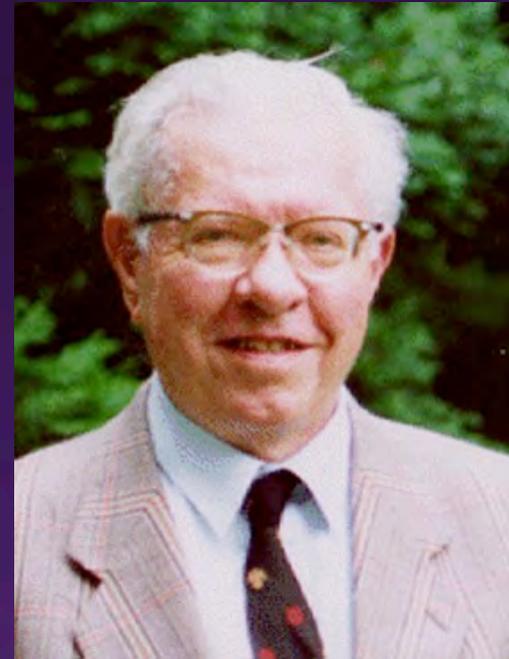
Lerner (2004), p. 20.

"Today, virtually all financial and experimental resources in cosmology are devoted to big bang studies. Funding comes from only a few sources, and **all the peer-review committees that control them are dominated by supporters of the big bang.** As a result, the dominance of the big bang within the field has become self-sustaining, irrespective of the scientific validity of the theory."



Lerner (2004), p. 20.

"Science today is **locked into paradigms**. Every avenue is **blocked by beliefs that are wrong**, and if you try to get anything published by a journal today, you will run up against a paradigm, and the editors will turn it down."



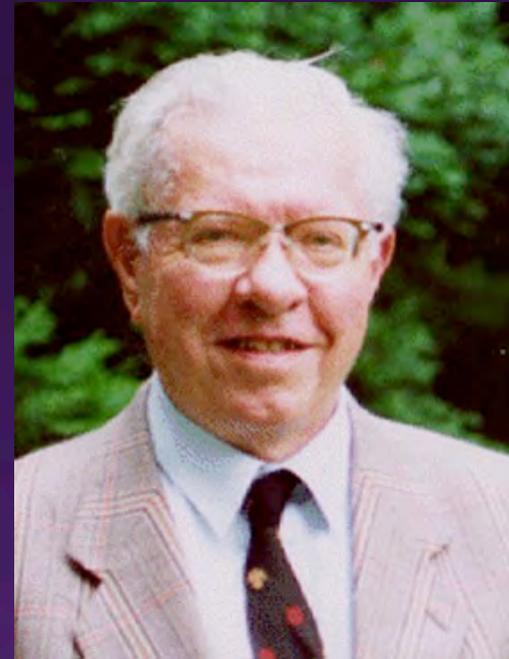
**Sir Fred Hoyle**

J. Horgan, "Profile: Fred Hoyle," *Scientific American* 272:3 (1995), pp. 24-25.

"Scientists, particularly at the most prestigious institutions, regularly **suppress and ridicule findings** which contradict their current theories and assumptions. ...

astronomers now feel

compelled to **fit the observations to the theory** and not vice versa."



**Sir Fred Hoyle**

Halton Arp, *Seeing Red: Redshifts, Cosmology and Academic Science* (Montreal, CAN: Apeiron, 1998), p. 12.

# The Big Bang is Unreasonable

Origin – Moon?

**Unknown!**

Origin – Solar System?

**Unknown!**

Origin – Stars & Galaxies?

**Unknown!**

Big Bang?

**Unbelievable myth!**

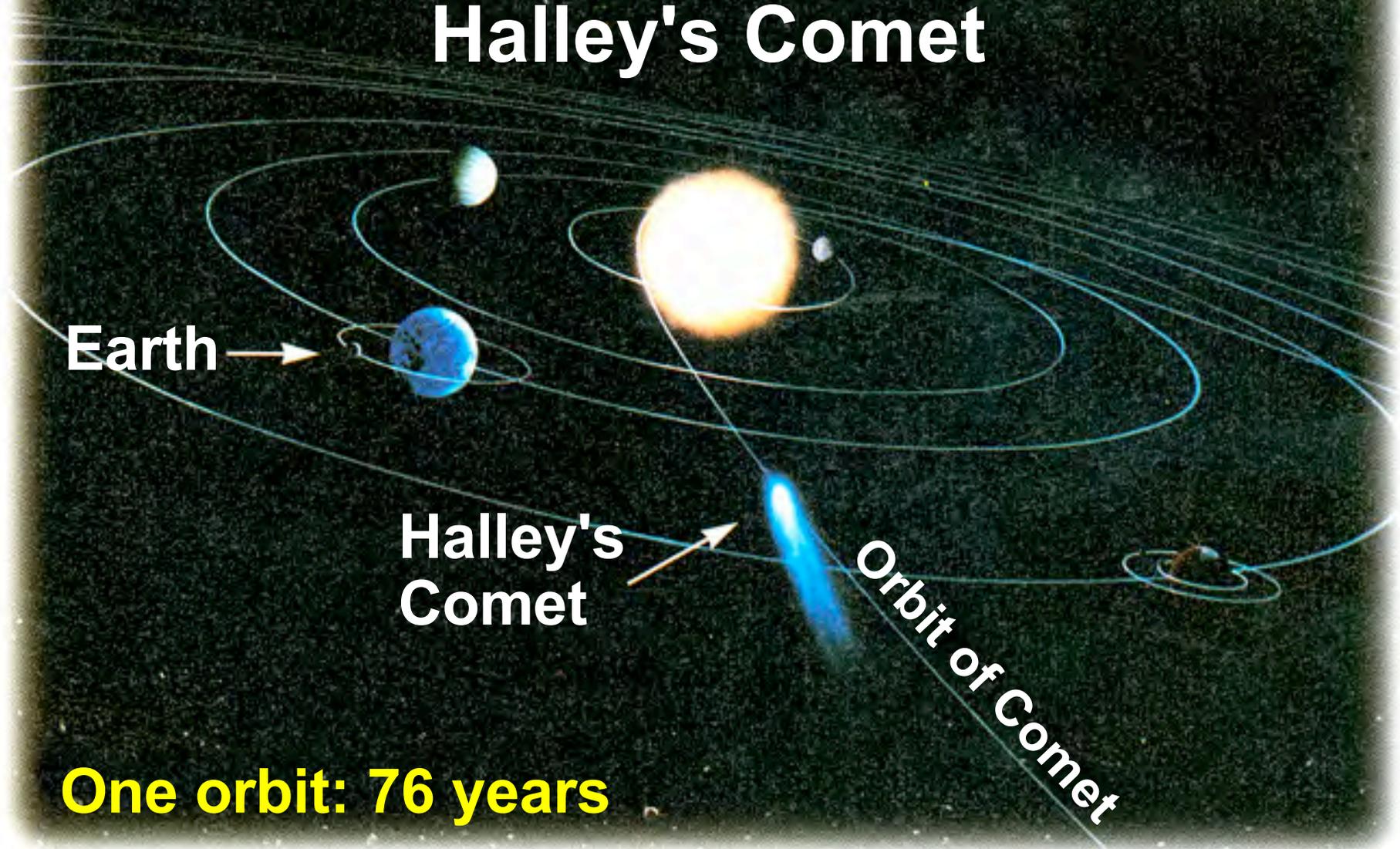


**Age of the  
universe?**

# How old am I?

If you don't know **HOW** I came into existence, then you can't possibly know **WHEN** I came into existence.

# Halley's Comet



Earth →

Halley's  
Comet →

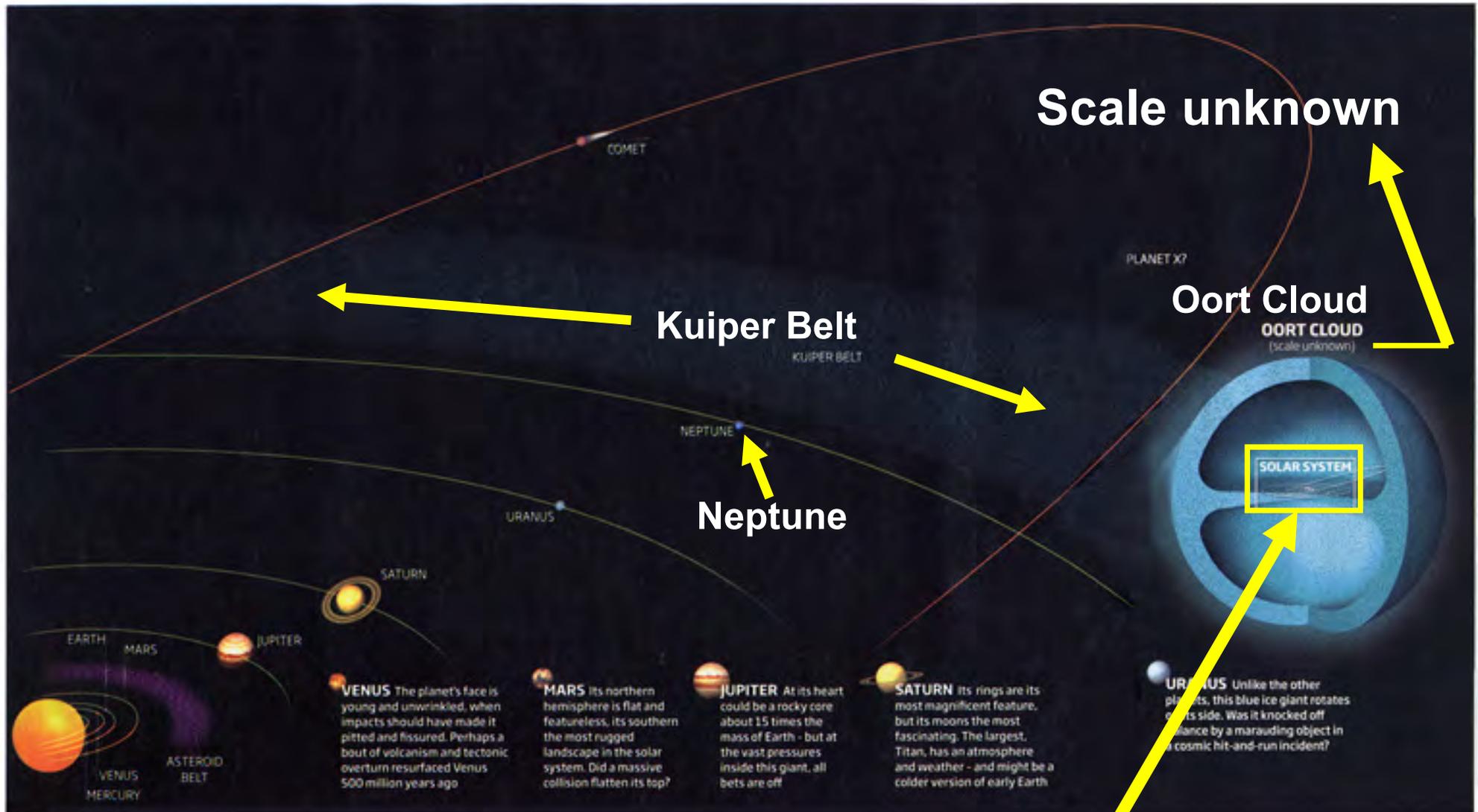
Orbit of Comet

**One orbit: 76 years**

# Evolutionary Explanations

## The solar system today

Questions about the solar system's overall make-up remain - particularly what occupies its outer reaches - but its major planets harbour their mysteries, too



**Solar System**

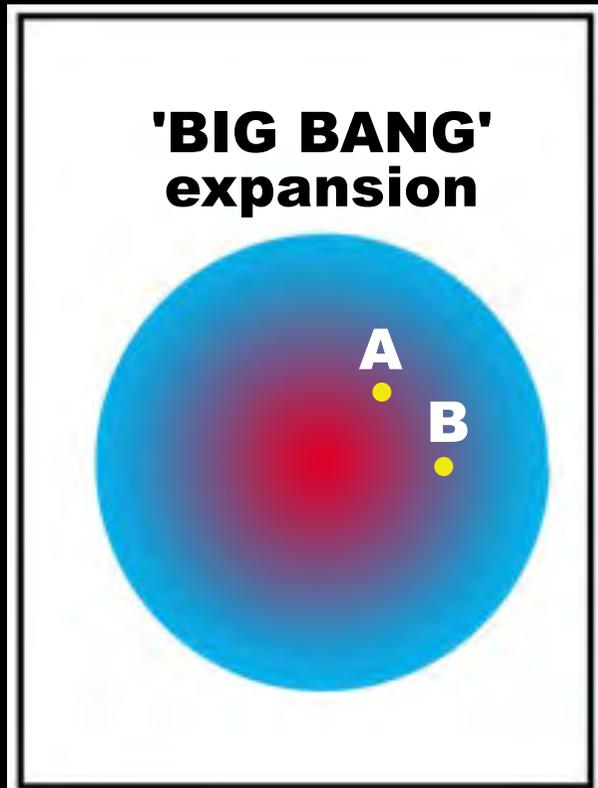
# Moon dust argument – **NOT** good



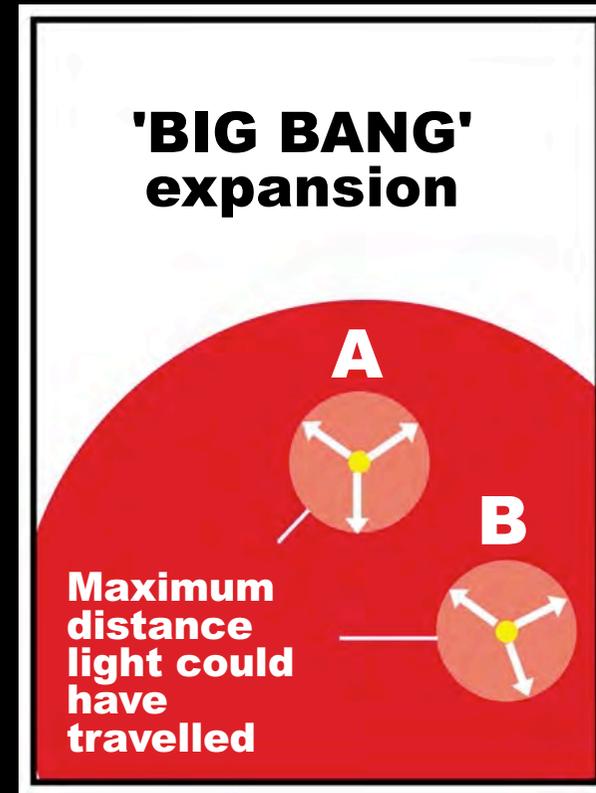
[www.AnswersInGenesis.org](http://www.AnswersInGenesis.org)

# Big bang proponents have their own light-travel-time problem!

## "Horizon Problem"



1. Early in the alleged big bang, points A and B start out with different temperatures.



2. Today, points A and B have the same temperature, yet there has not been enough time for them to exchange light/heat.

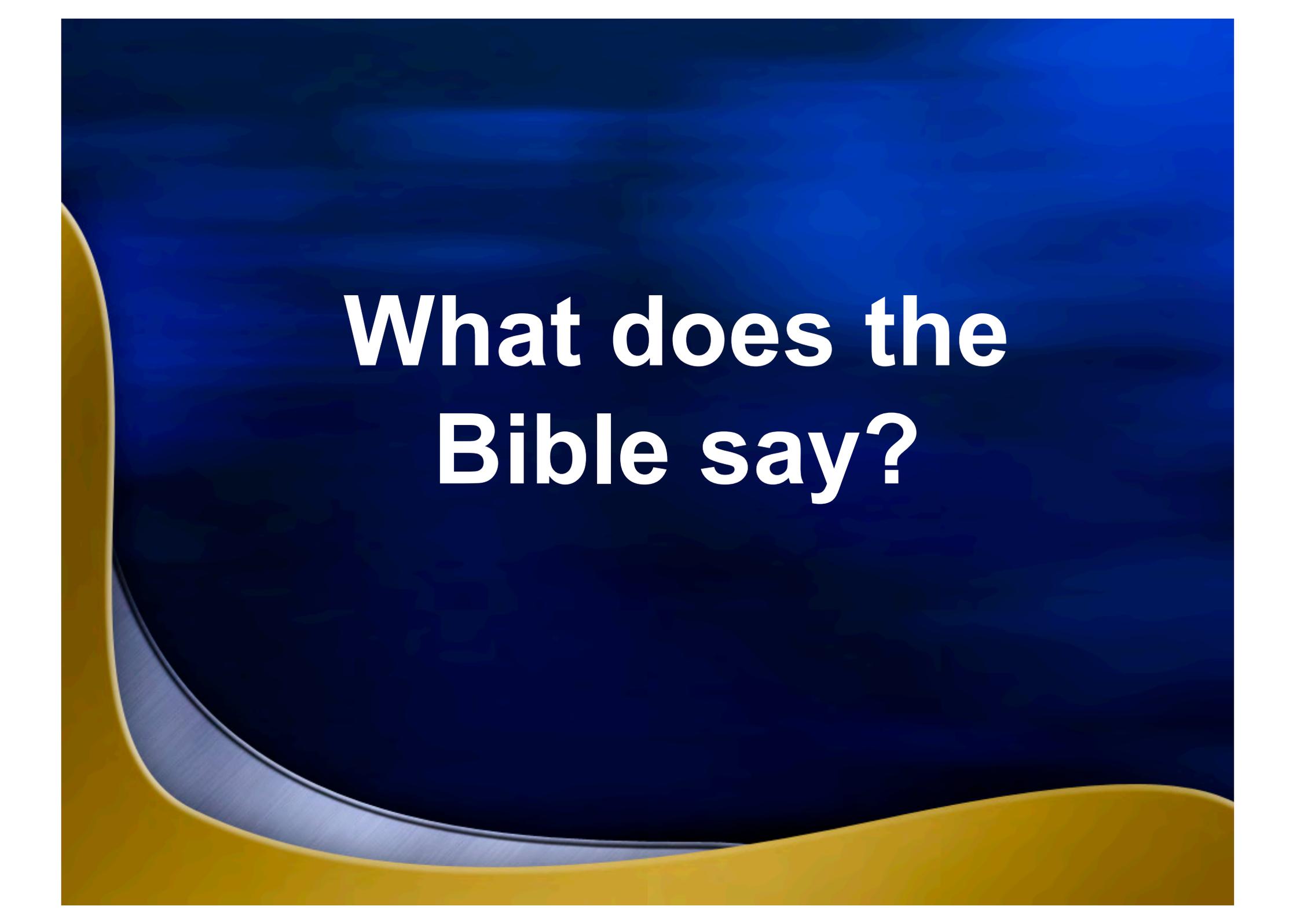


1:1

**answers**ingenesi**s.org**

believing it. defending it. proclaiming it.

**"Distant starlight"**



**What does the  
Bible say?**

# Psalm 33:6, 8-9

6. **By the word of the LORD** the heavens were made, And by the breath of His mouth all their host.

8. Let all the earth fear the LORD;  
Let all the inhabitants of the world stand in awe of Him.

9. **For He spoke, and it was done;  
He commanded, and it stood fast.**

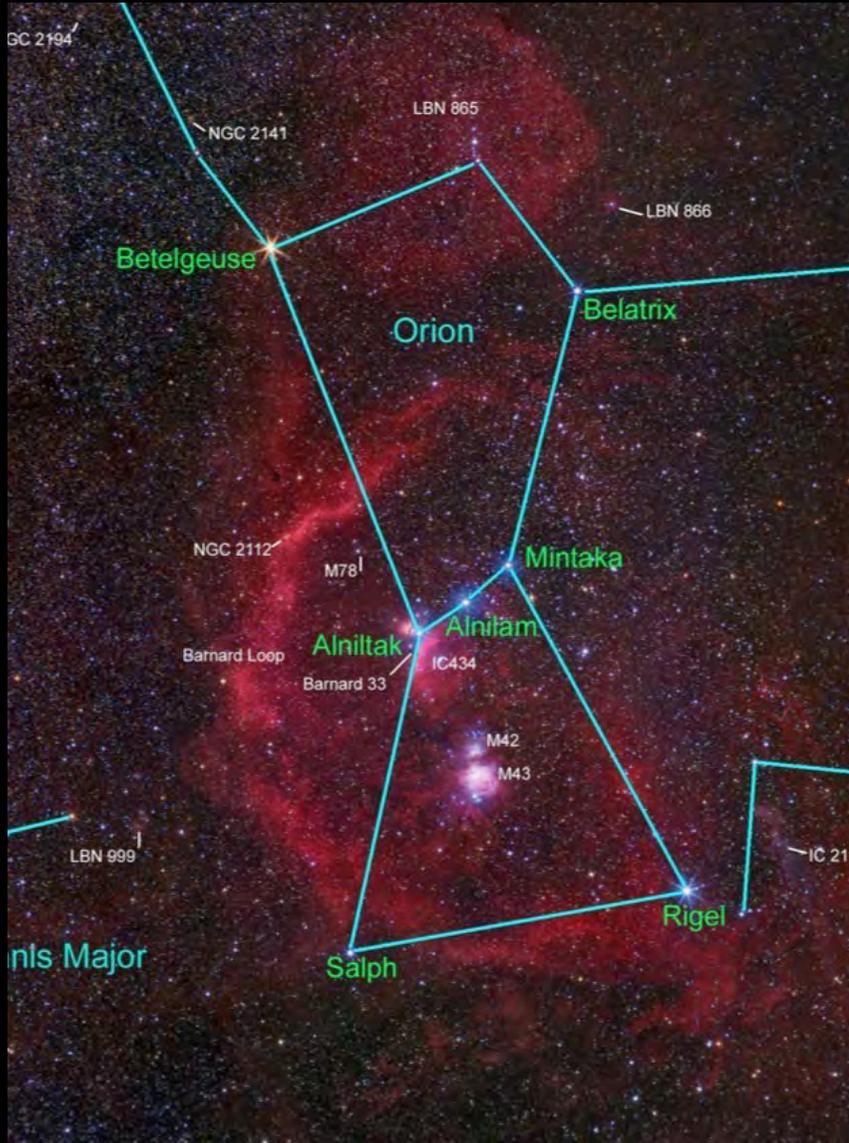


# Psalm 19:1-2

1. The heavens are telling of **the glory of God**; And their expanse is declaring the work of His hands.

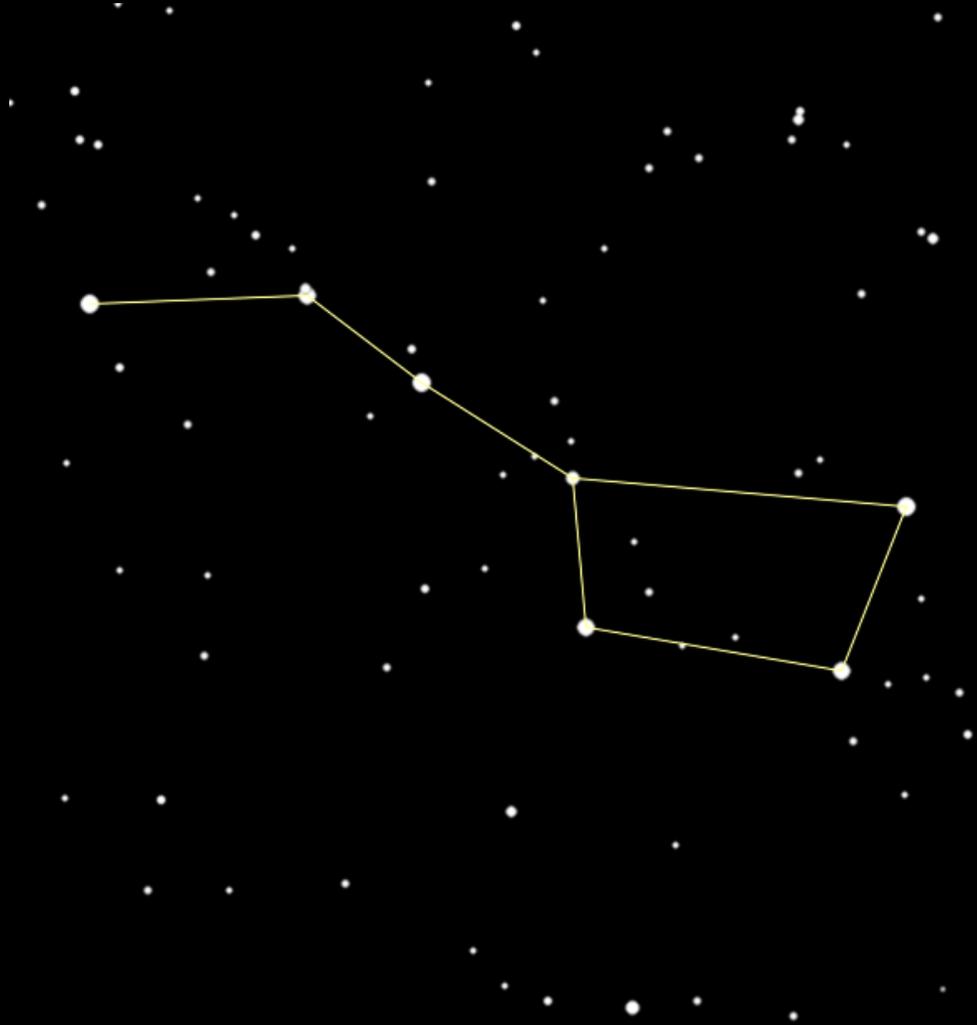
2. Day to day pours forth speech, And night to night reveals knowledge.



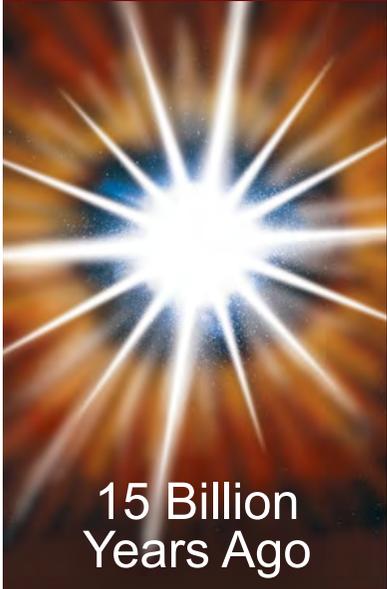


**ORION**

# BIG DIPPER



# Big Bang



15 Billion  
Years Ago

# Big Bang Future of the Universe

**BIG  
BANG**

**Billions of Years**

**Heat  
Death**



# Genesis 1:14-15

(14) Then God said, "**Let there be** lights in the expanse of the heavens to separate the day from the night, and let them be for signs and for seasons and for days and years. (15) And let them be for lights in the expanse of the heavens to give light on the earth." **And it was so.**

**Let there be ... v. 3, 6, 9, 11, 14, 20, 24, 26**

**And it was so ...v. 3, 7, 9, 11, 15, 24, 30**

**God saw ... was good... v. 4, 10, 12, 18, 21, 25**



# Genesis 1:16

God **made** the two great lights, the greater light to govern the day, and the lesser light to govern the night; He **made** the stars also.

**Made = *asah* (Hebrew)**



***Asah*: to make or do**

It ***never*** means "to appear" or "to make visible."

***Rahah*: to appear**

Gen. 1:9 "let the dry land appear"

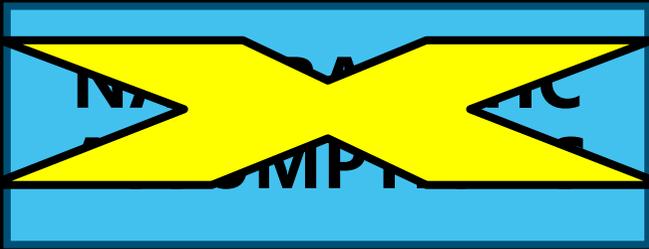
**Psalm 147:7-8**

... Sing praises to our God on the lyre, who covers the heavens with **clouds**...

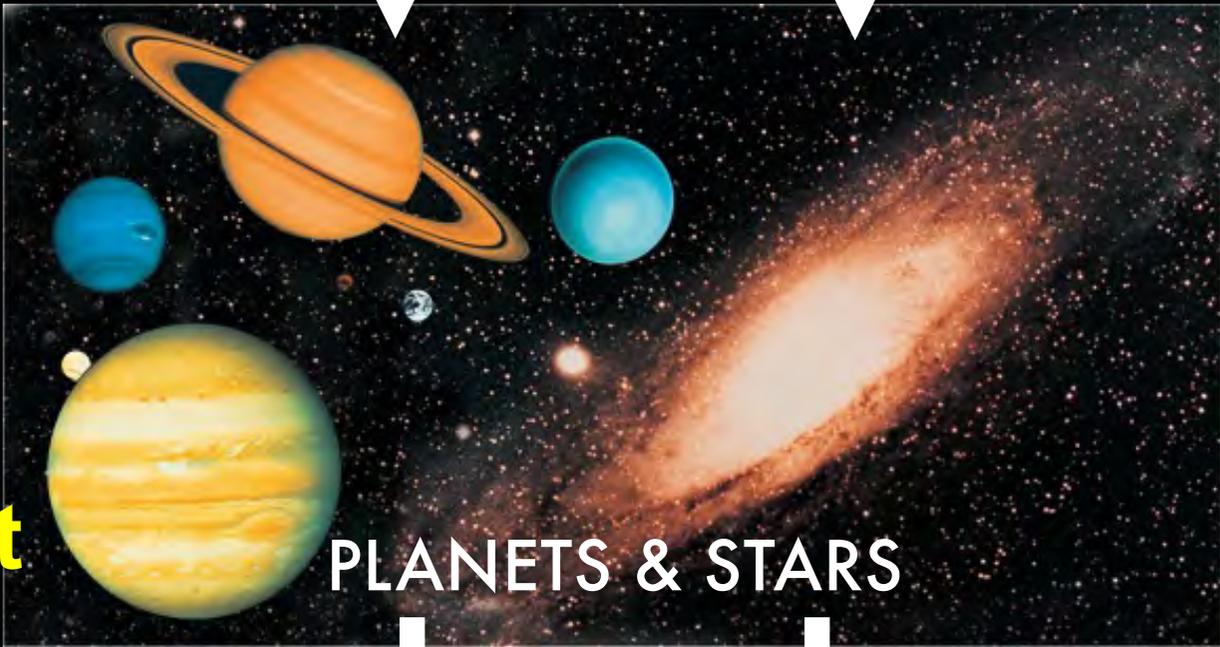
**If God didn't make the Sun, Moon  
and stars on Day 4, when did He  
make them?**

- **Verse 3?**
- **Verse 1?**

The Bible ***clearly***  
teaches that the Sun,  
Moon and stars were  
***all*** created on Day 4.

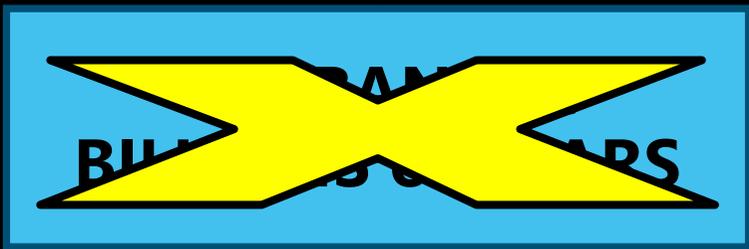


**BIBLICAL ASSUMPTIONS**



**It doesn't fit the facts.**

**It does fit the facts!**



**DESIGNED, YOUNG UNIVERSE**



Astronomical Evolution

Geological Evolution

**Myth!**

Earth

Planets, Stars, Galaxies



1:1

**answers**ing**genesis.org**

believing it. defending it. proclaiming it.

**Cincinnati, OH**



**Creation Museum**



# Stargazers Room

PLANETARIUM

# Supernatural Design

"Atheism is so senseless. When I look at the solar system, I see the Earth at the right distance from the sun to receive the proper amounts of heat and light. This did not happen by chance."



**Sir Isaac Newton**

"This most beautiful system of the sun, planets, and comets, could only proceed from the counsel and dominion of an intelligent Being."



**The heavens  
declare the  
glory of God...**

**Psalm 19:1**

# The History Book of the Universe

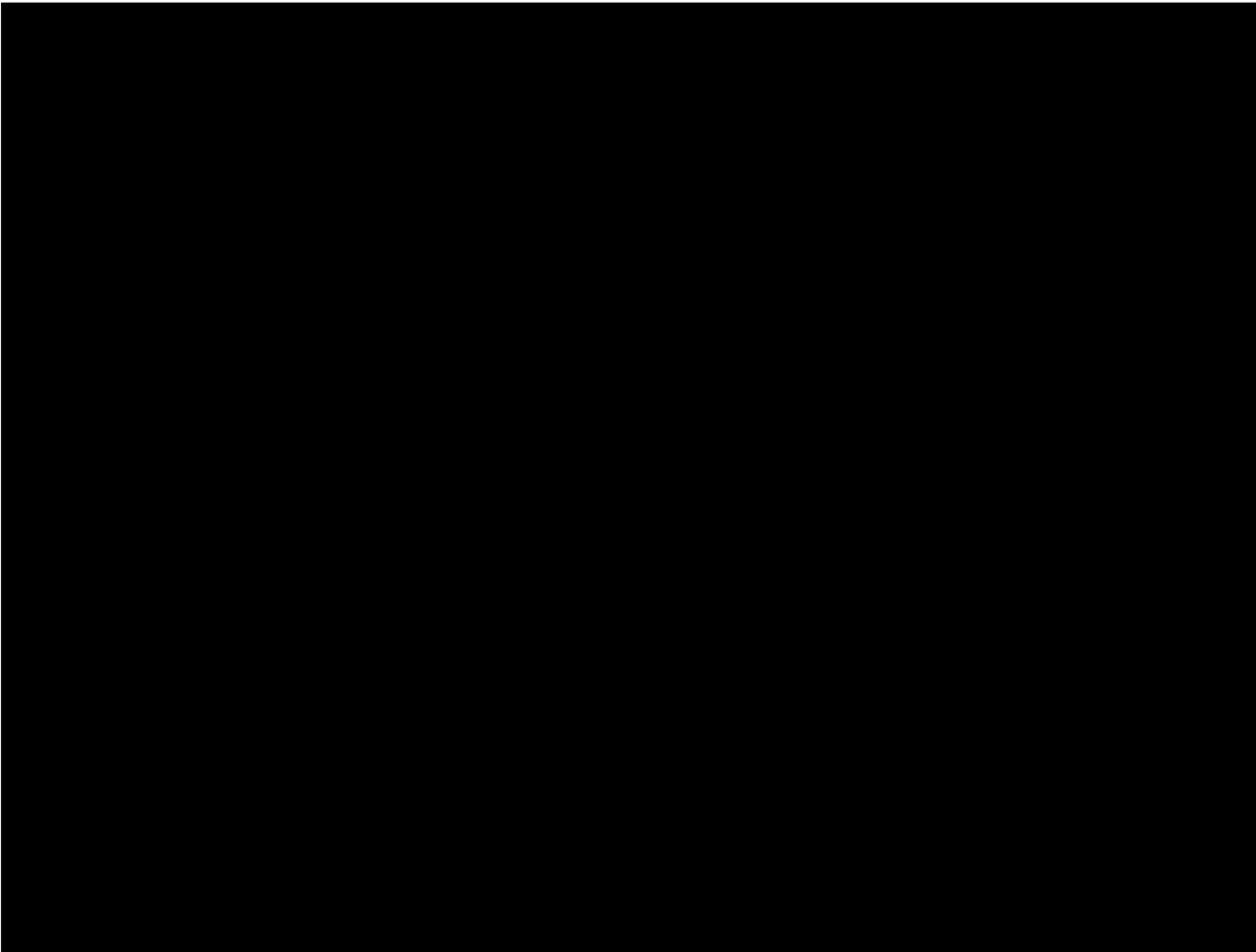


The Big Bang happened billions of years ago. Take my word for it!



I created the earth BEFORE the sun, about 6000 years ago. Take my Word for it!





# Get this presentation for free!



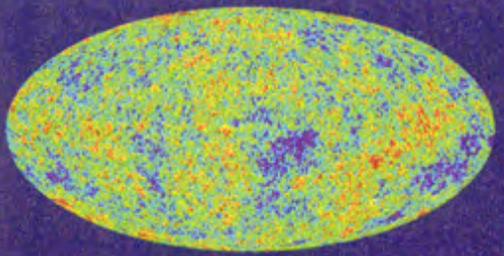
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Cosmic background radiation

Today

What we can see!

Furthest galaxies

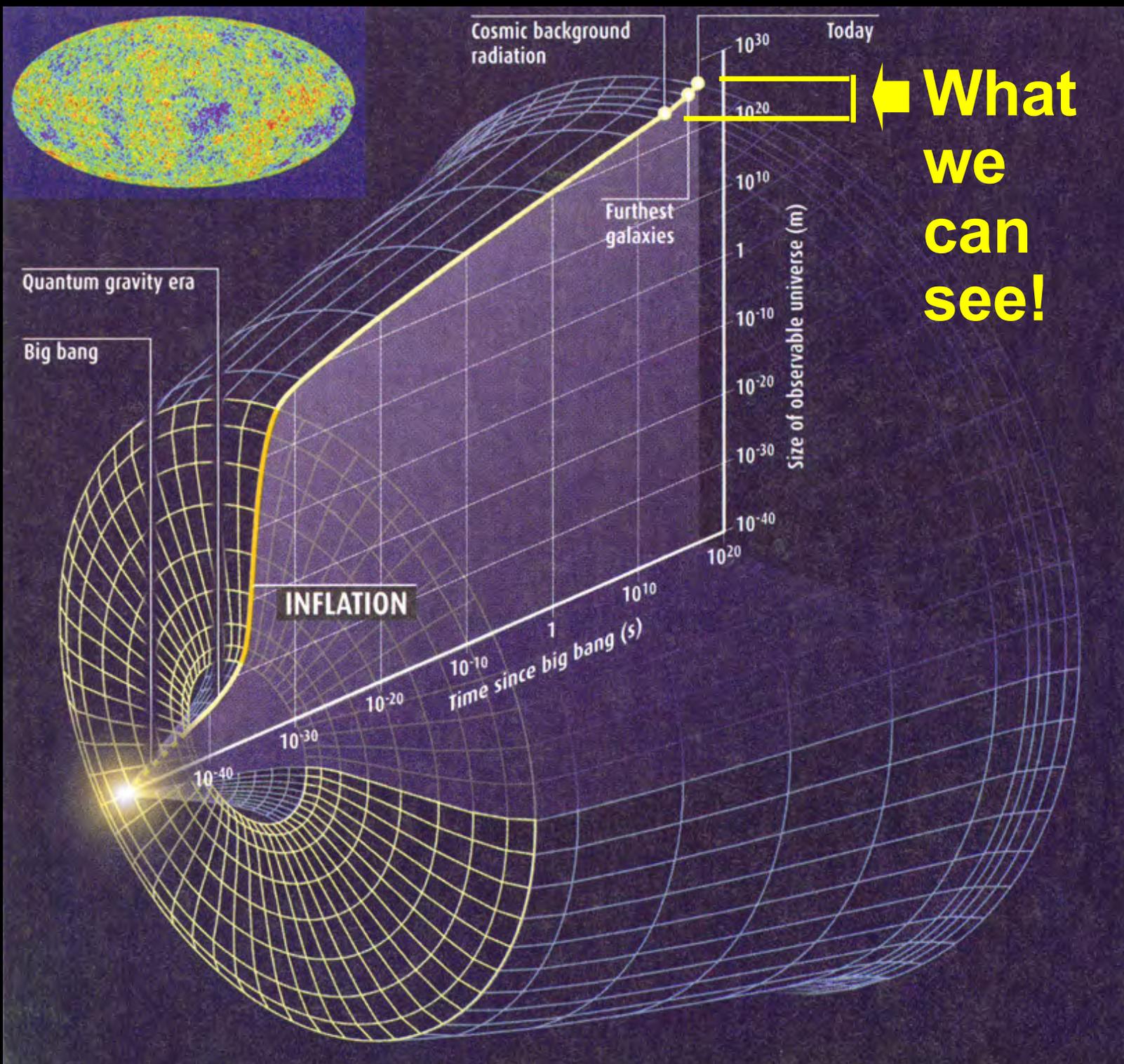
Quantum gravity era

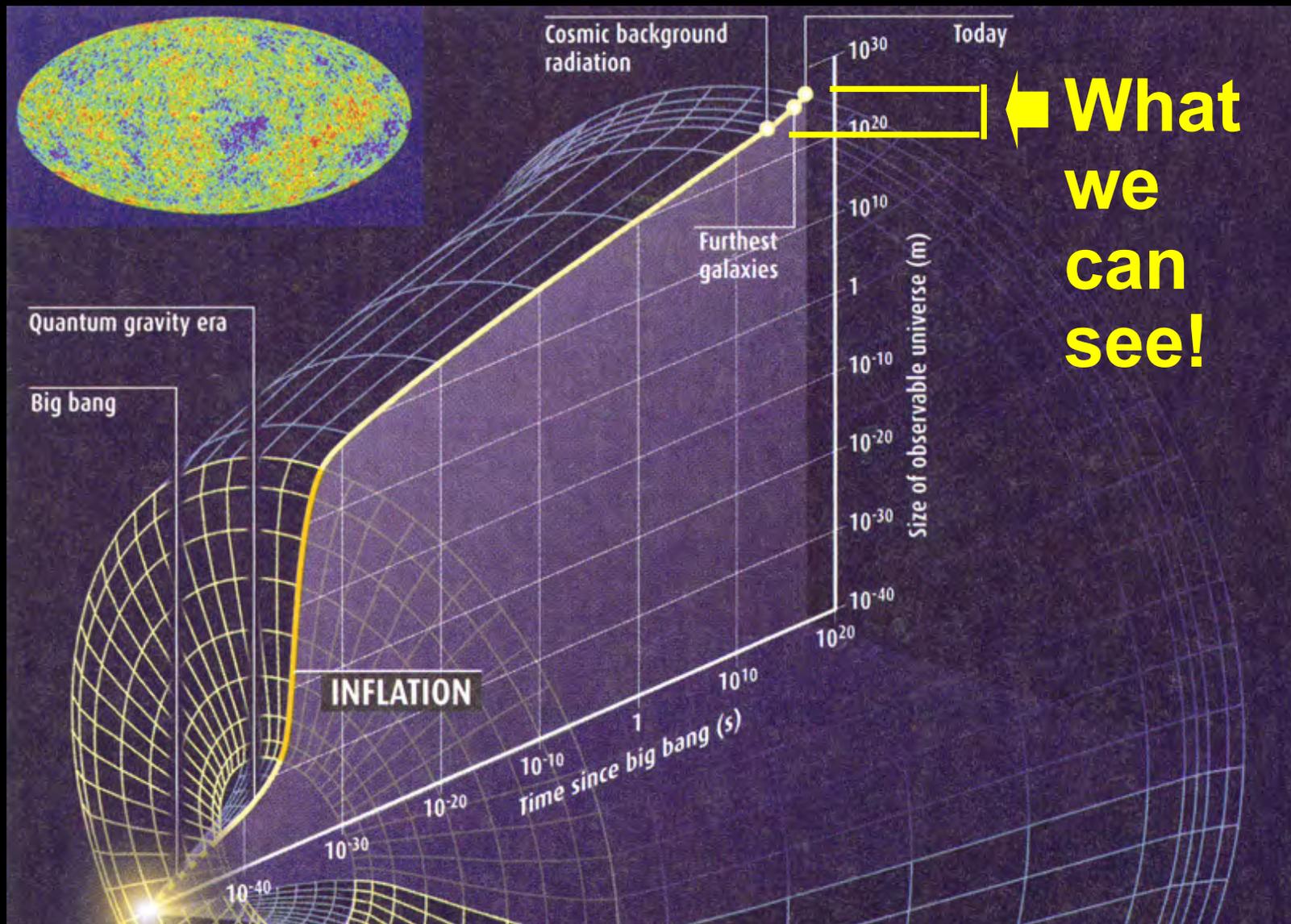
Big bang

INFLATION

Size of observable universe (m)

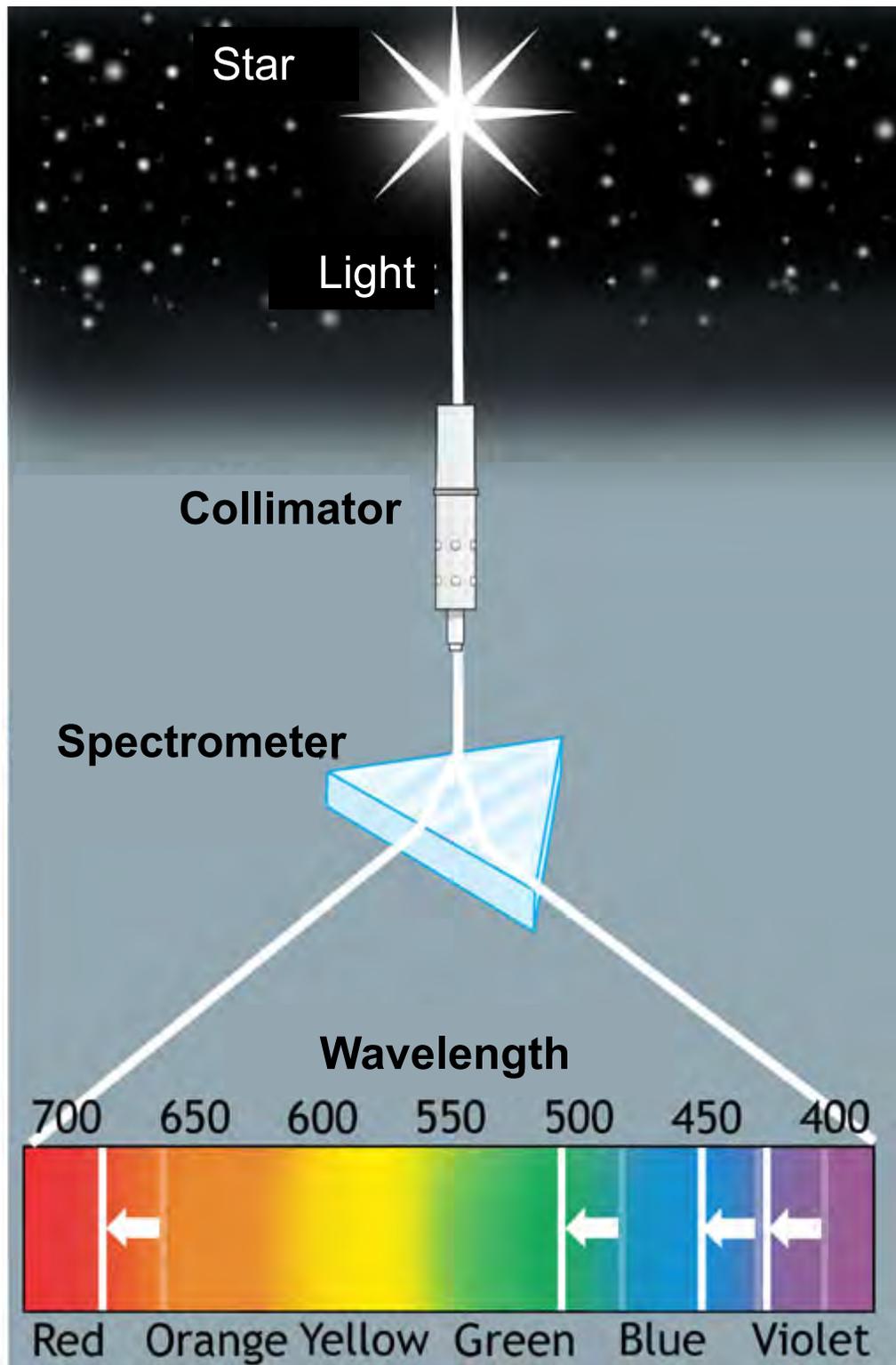
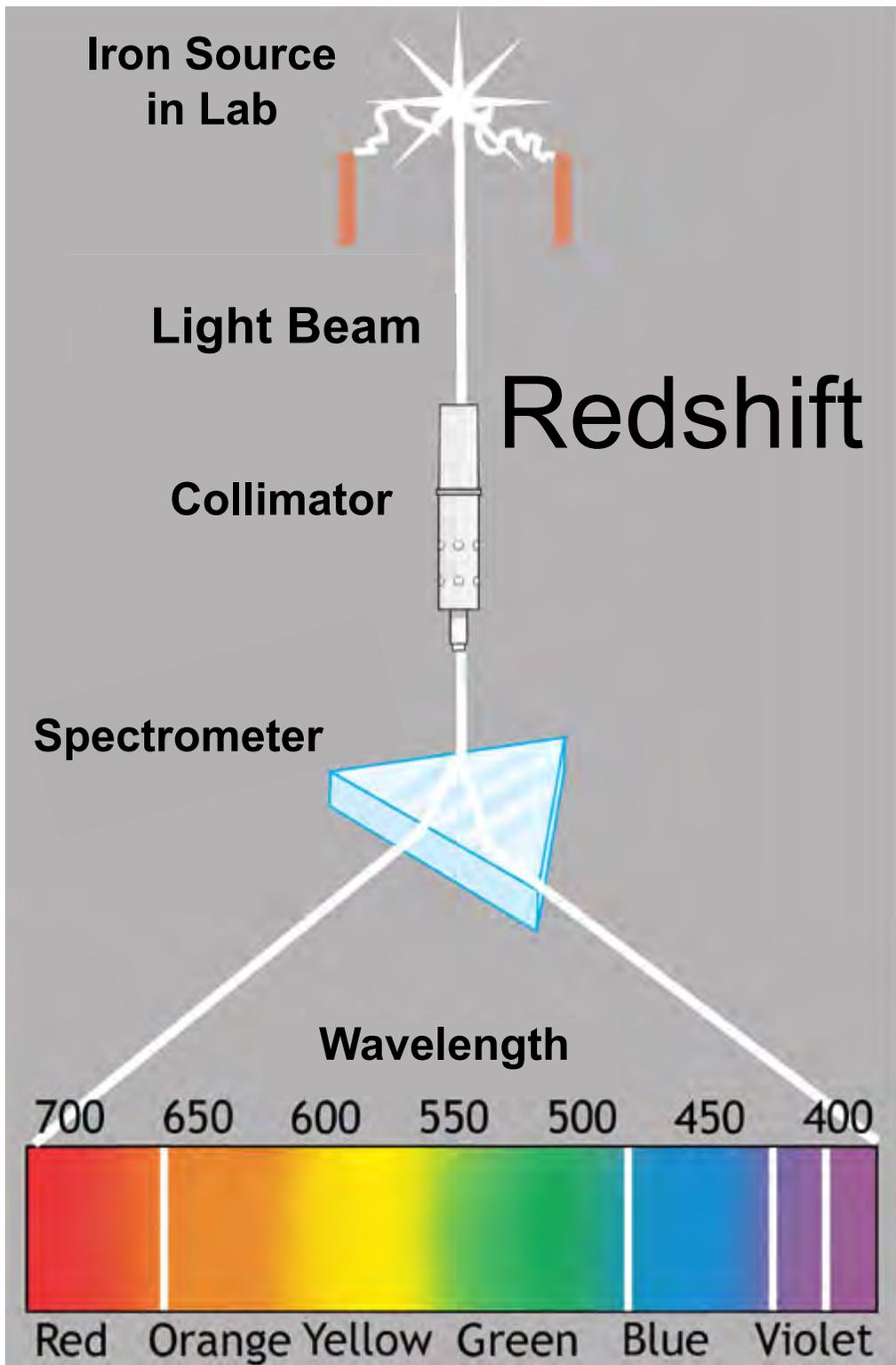
Time since big bang (s)

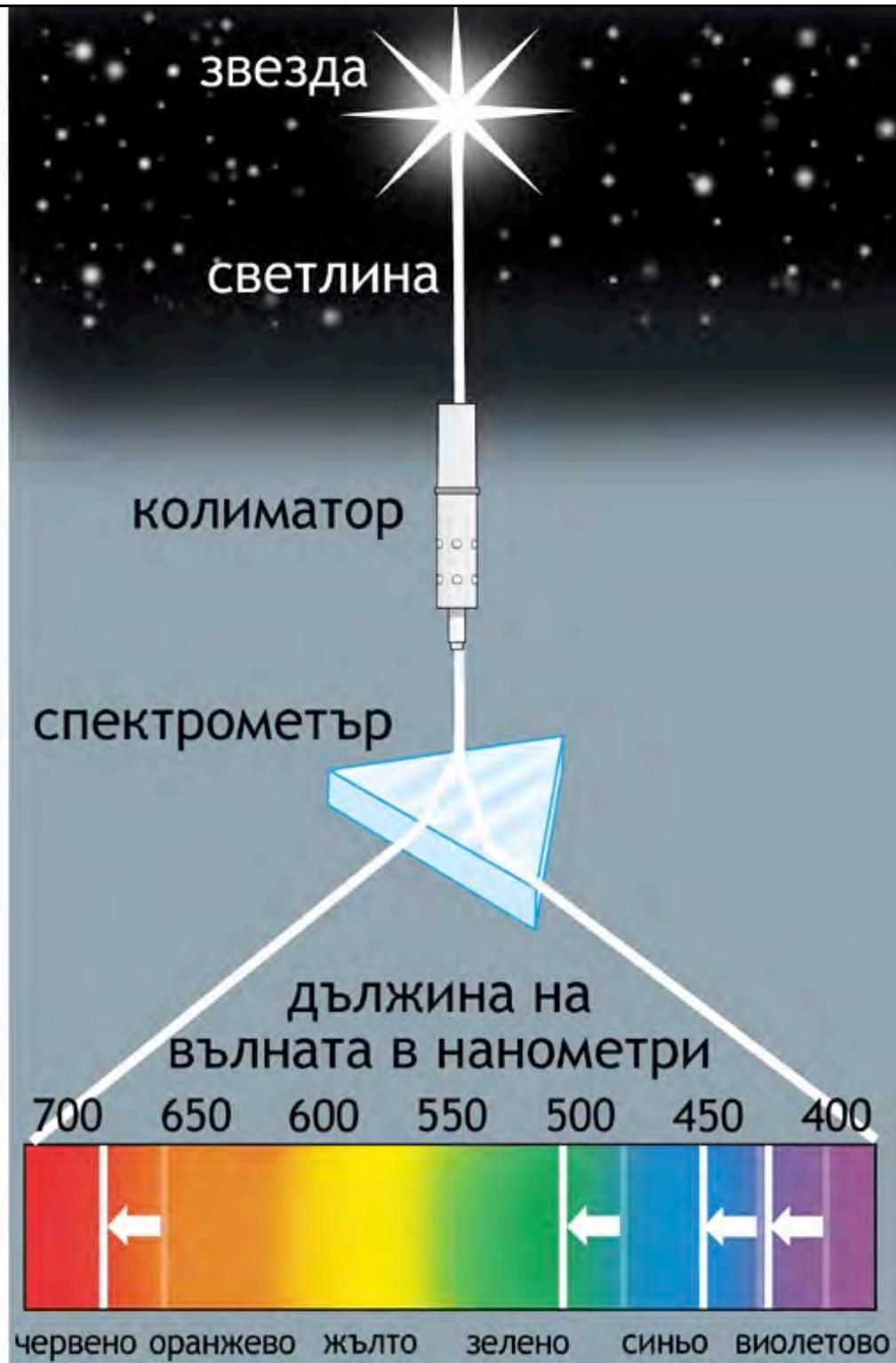


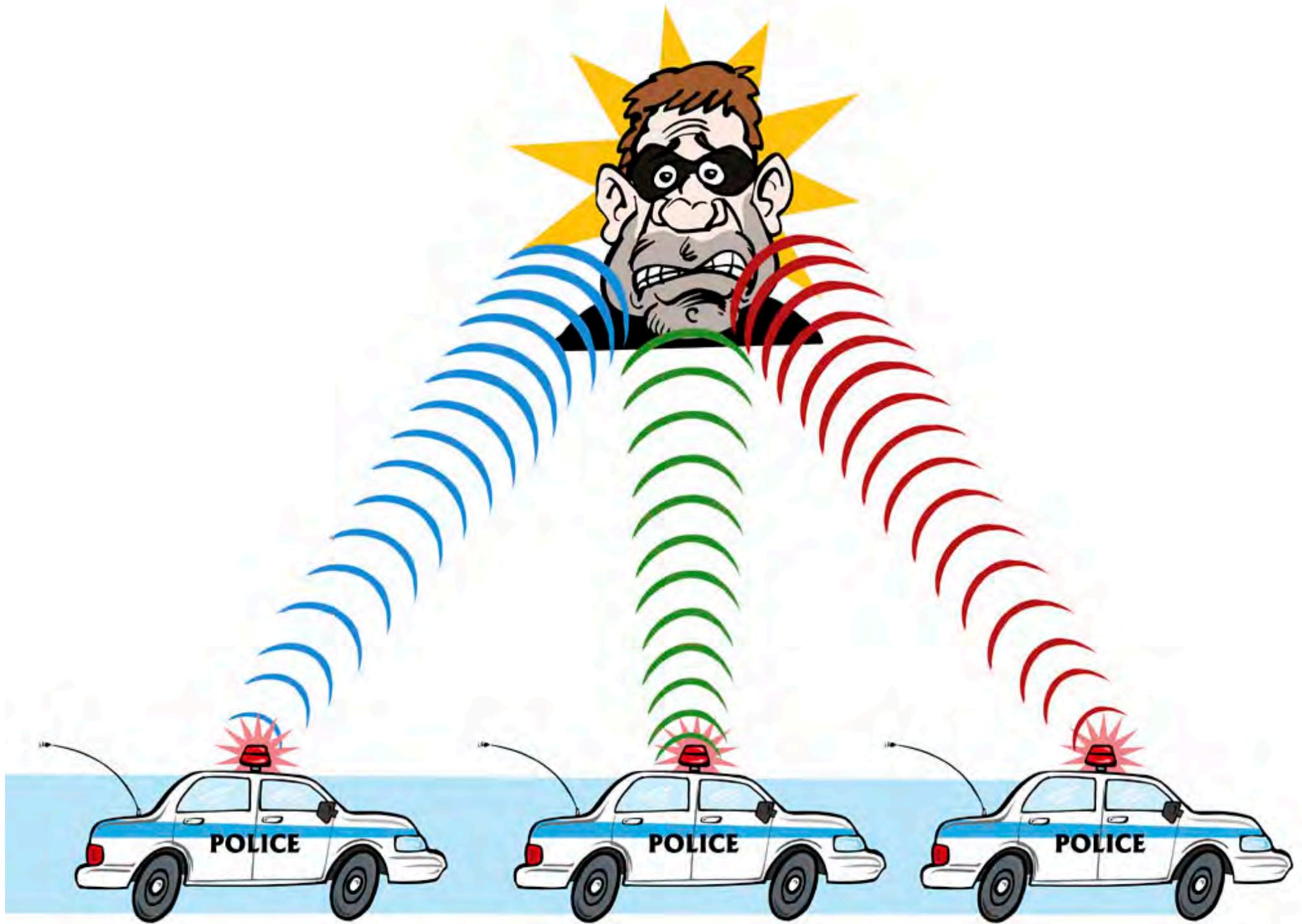


**"Inflation lasted less than a millisecond, yet it is responsible for most of the growth of the universe and left its imprint on the microwave background (inset)."**

What about the  
**redshift**  
of starlight?







# Redshift meaning?

- Expansion of the Universe?
- Intrinsic nature of the star or galaxy?
- Decrease in the speed of light?
- Gravitation of the star or galaxy?
- Tired light?
- Tangential movement?
- Another interpretation?

