

A dense field of galaxies in various colors and shapes against a black background. The galaxies are scattered across the frame, with some appearing as bright, distinct points of light and others as more complex, multi-colored structures. The colors range from bright yellow and orange to deep blues and purples. The overall effect is a rich, multi-colored starfield.

**CREATION  
AND  
SCIENCE**

# Outline

- **Scientists and Christianity**
- **A baseline – just chance?**
- **Genesis and the age of the universe**
- **The characteristics of the universe**
- **Our “just right” planet**
- **The miracle of life**
- **Dimensions beyond space and time**

# Scientists and Christianity

- Copernicus, Galileo, Newton and Kepler, possibly even Darwin were Christians
- Proverbs 4: 7-8 “Though it cost all you have, get understanding. Esteem her, and she will exalt you; embrace her, and she will honour you.”
- Stephen Hawking (agnostic); “It would be difficult to explain why the universe should have begun in just this way, except as an Act of God who intended to create creatures such as us”

# Sources of conflict

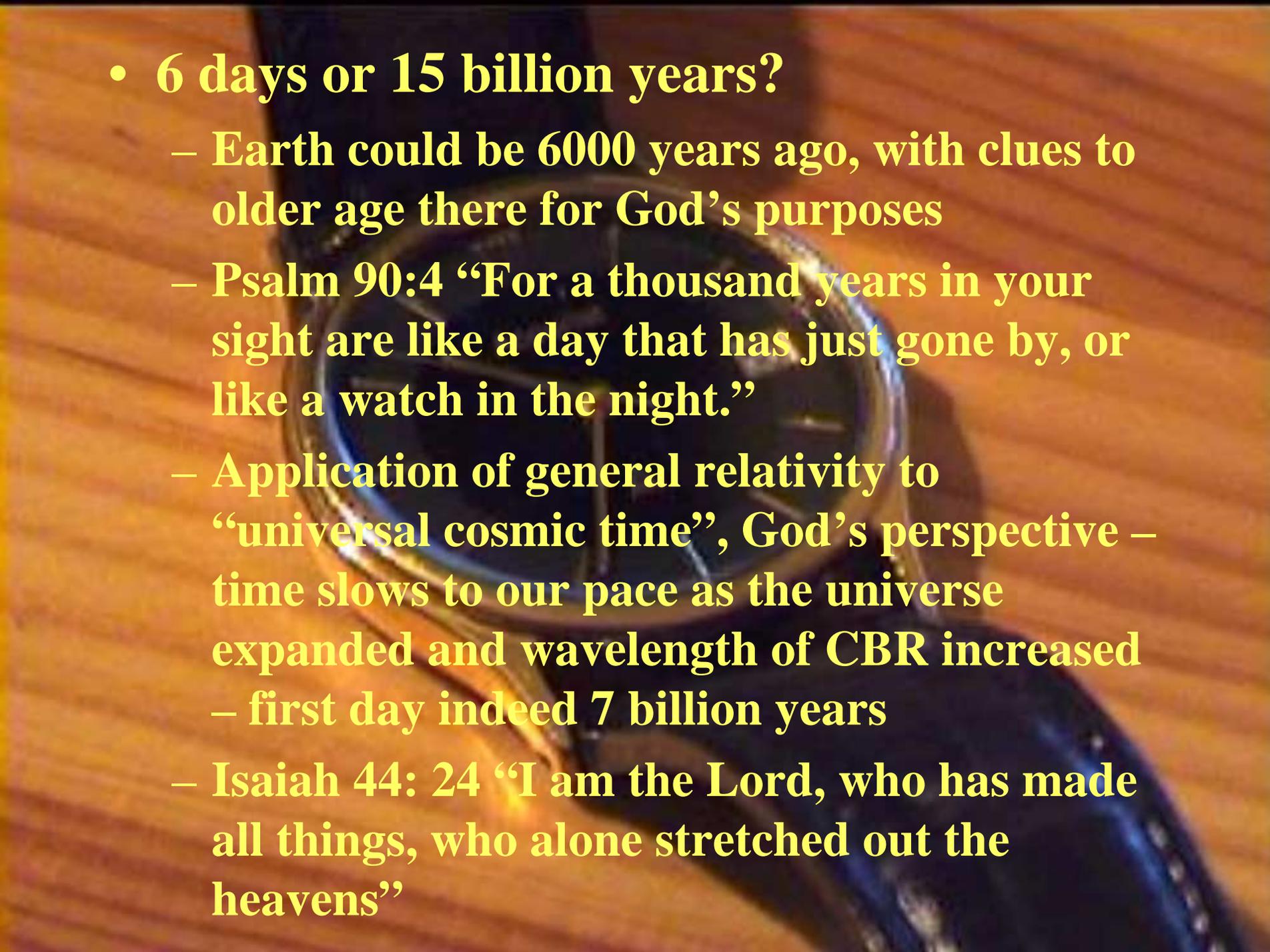
- **Christians' misreading of the Bible?**
- **Christians may need to accept more that God uses natural processes for his purposes**
- **Exodus 14:21 "Then Moses stretched out his hand over the sea, and all that night the Lord drove the sea back with a strong east wind and turned it into dry land."**
- **Scientists' unwarranted assertions**
- **Scientists' abuse of creation.....**

# **A baseline – all just chance?**

- **Origin of the universe**
- **The earth**
- **The beginning and development of life**
- **Some truth but much that is misleading**
- **Conflicts with some of the latest discoveries**
- **Probabilities are against chance**
- **Science is even converging on the Bible**

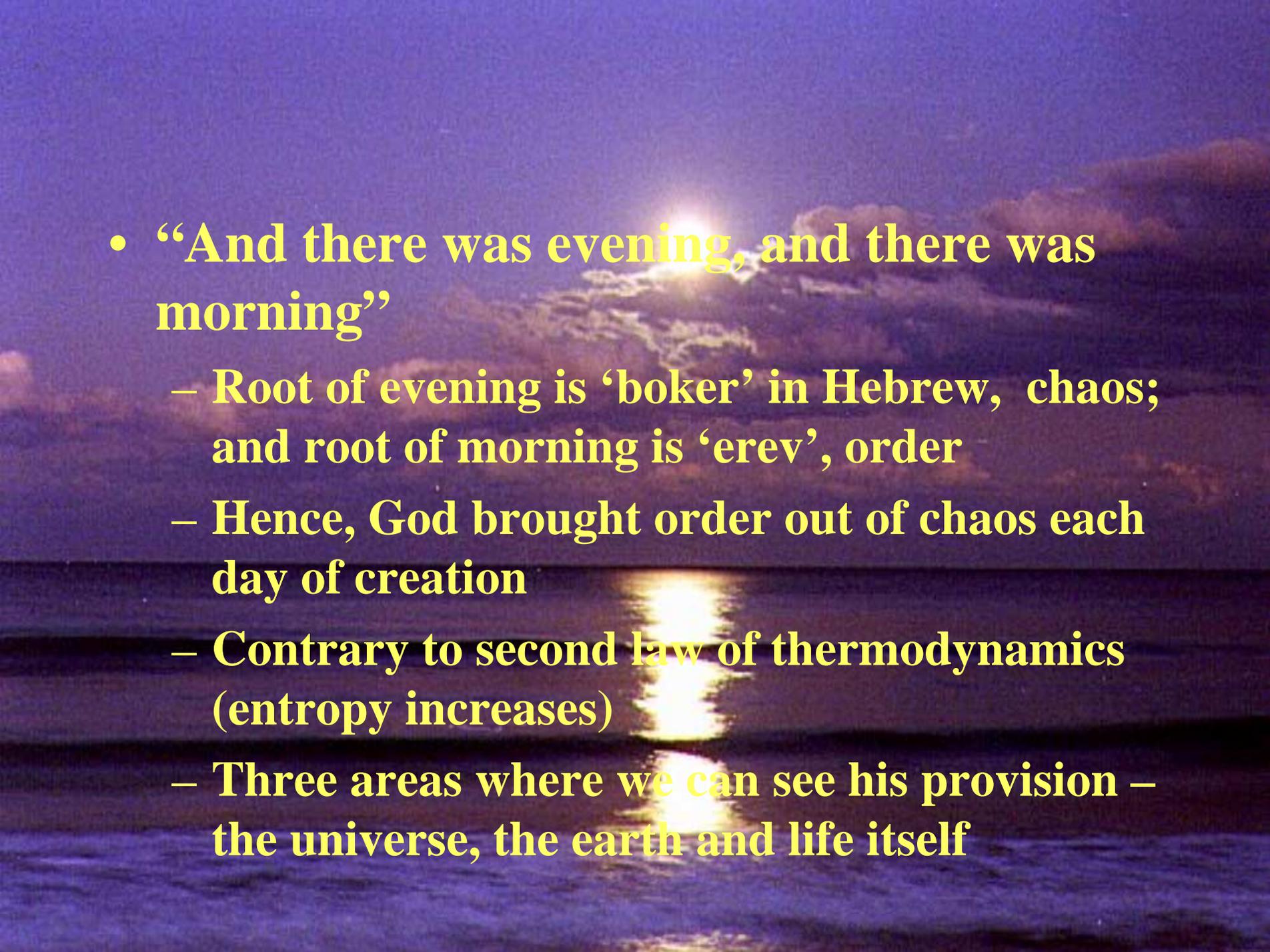
# Genesis and the age of the universe

- Evidence for 15 billion years strong (red shift, cosmic background radiation (CBR))
- A conflict with Genesis and 6 days?
  - Science now agrees the universe has a beginning
  - Hebrews 11:3 “By faith we understand that the universe was formed at God's command, so that what is seen was not made out of what was visible”
  - Astronomer Geoffrey Burbidge complains that his peers were “rushing off to join the First Church of Christ of the Big Bang”.

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- **6 days or 15 billion years?**
    - **Earth could be 6000 years ago, with clues to older age there for God's purposes**
    - **Psalm 90:4 "For a thousand years in your sight are like a day that has just gone by, or like a watch in the night."**
    - **Application of general relativity to "universal cosmic time", God's perspective – time slows to our pace as the universe expanded and wavelength of CBR increased**
      - **first day indeed 7 billion years**
    - **Isaiah 44: 24 "I am the Lord, who has made all things, who alone stretched out the heavens"**

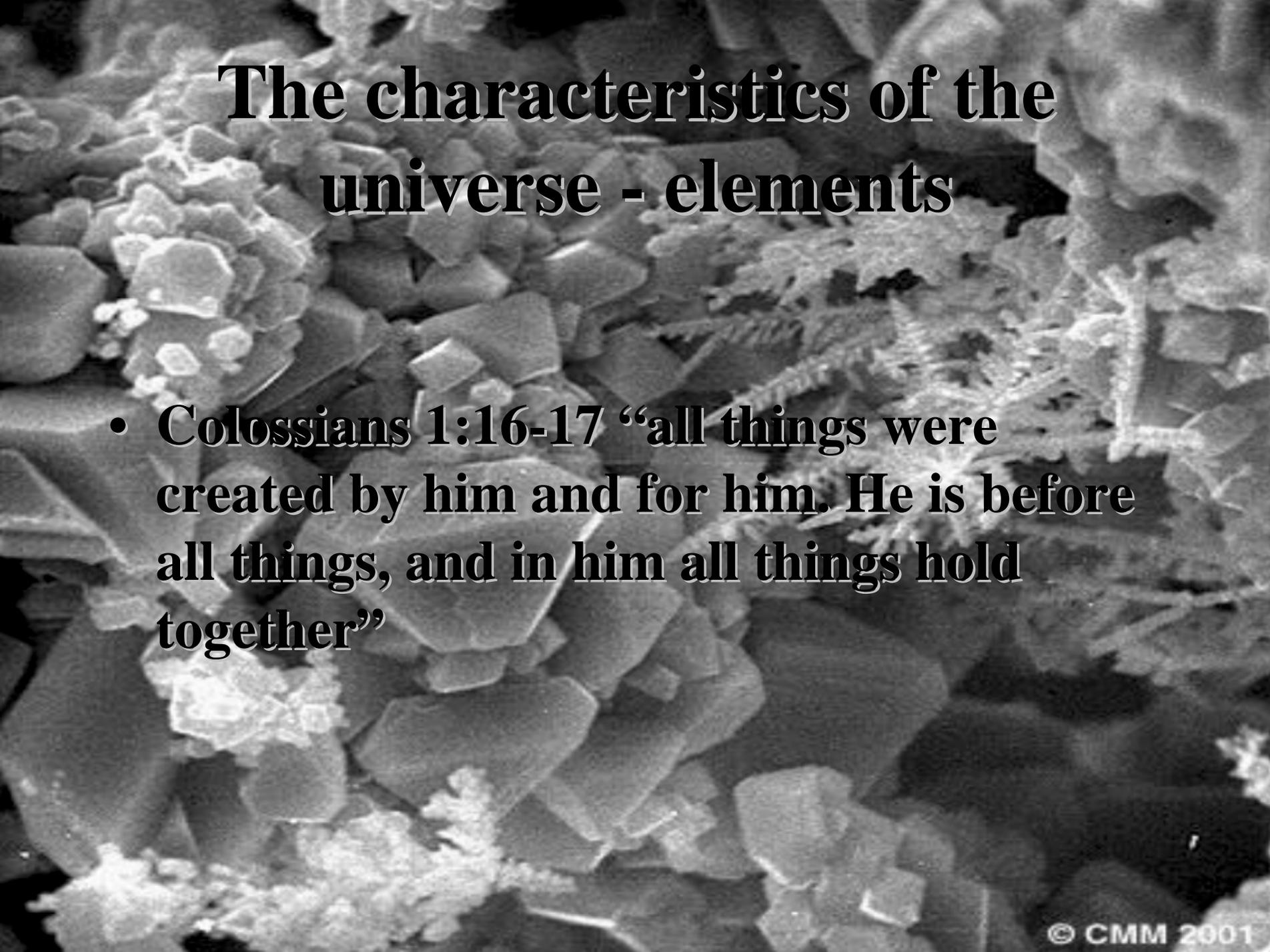
## The Six Days of Genesis

| Day number | Start of day (years B.P.) | End of day (years B.P.) | Main event(s) of the day   |   |
|------------|---------------------------|-------------------------|--|---|
|            |                           |                         | <i>Bible's description</i>   | <i>Scientific description</i>   |
| One        | 15,750,000,000            | 7,750,000,000           | The creation of the universe; light separates from dark (Gen. 1:1–5)   | The big bang marks the creation of the universe; light literally breaks free as electrons bond to atomic nuclei; galaxies start to form                       |
| Two        | 7,750,000,000             | 3,750,000,000           | The heavenly firmament forms (Gen. 1:6–8)  | Disk of Milky Way forms; Sun, a main sequence star, forms   |
| Three      | 3,750,000,000             | 1,750,000,000           | Oceans and dry land appear; the first life, plants, appear (Gen. 1:9–13); kabbalah states this marked only the start of plant life, which then developed during the following days | The earth has cooled and liquid water appears 3.8 billion years ago followed almost immediately by the first forms of life: bacteria and photosynthetic algae |
| Four       | 1,750,000,000             | 750,000,000             | Sun, Moon, and stars become visible in heavens (Talmud Hagigah 12a) (Gen. 1:14–19)   | Earth's atmosphere becomes transparent; photosynthesis produces oxygen-rich atmosphere  |
| Five       | 750,000,000               | 250,000,000             | First animal life swarms abundantly in waters; followed by reptiles and winged animals (Gen. 1:20–23)  | First multicellular animals; waters swarm with animal life having the basic body plans of all future animals; winged insects appear                           |
| Six        | 250,000,000               | approx. 6,000           | Land animals; mammals; humankind (Gen. 1:24–31)  | Massive extinction destroys over 90% of life. Land is repopulated: hominids and then humans   |

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- **“And there was evening, and there was morning”**
    - **Root of evening is ‘boker’ in Hebrew, chaos; and root of morning is ‘erev’, order**
    - **Hence, God brought order out of chaos each day of creation**
    - **Contrary to second law of thermodynamics (entropy increases)**
    - **Three areas where we can see his provision – the universe, the earth and life itself**

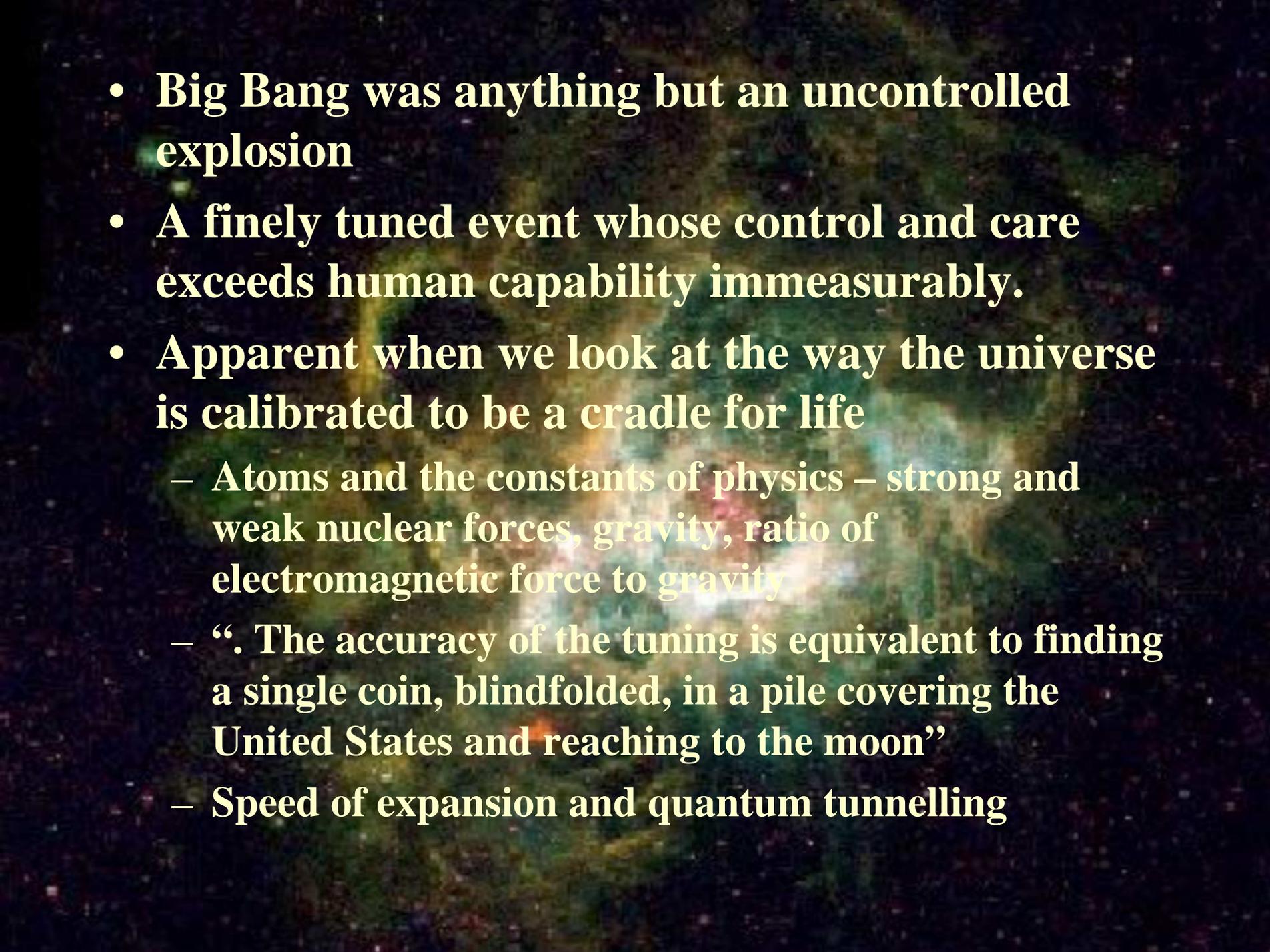
# **The characteristics of the universe - galaxies**

- **Psalm 19:1 “The heavens declare the glory of God; the skies proclaim the work of his hands.”**



# **The characteristics of the universe - elements**

- **Colossians 1:16-17 “all things were created by him and for him. He is before all things, and in him all things hold together”**

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- **Big Bang was anything but an uncontrolled explosion**
  - **A finely tuned event whose control and care exceeds human capability immeasurably.**
  - **Apparent when we look at the way the universe is calibrated to be a cradle for life**
    - **Atoms and the constants of physics – strong and weak nuclear forces, gravity, ratio of electromagnetic force to gravity**
    - **“The accuracy of the tuning is equivalent to finding a single coin, blindfolded, in a pile covering the United States and reaching to the moon”**
    - **Speed of expansion and quantum tunnelling**

- **Fred Hoyle, an atheist “A superintellect has monkeyed around with physics as well as chemistry and biology”.**
- **Roger Penrose, Professor of Maths at Oxford, overall likelihood of the initial conditions producing the universe we have by chance is one in 10 to the 10 to the 123**
- **Atheists seeking a way out!**
  - **Infinite number of universes (needs God)**
  - **Eternal cycle of expansion (contrary to physics)**
- **Psalm 33:6 “By the word of the Lord were the heavens made, their starry host by the breath of his mouth.”**

# Our “just right” planet

- **Psalm 24:1 “The earth is the Lord’s, and everything in it, the world, and all who live in it; for he founded it upon the seas and established it upon the waters.”**



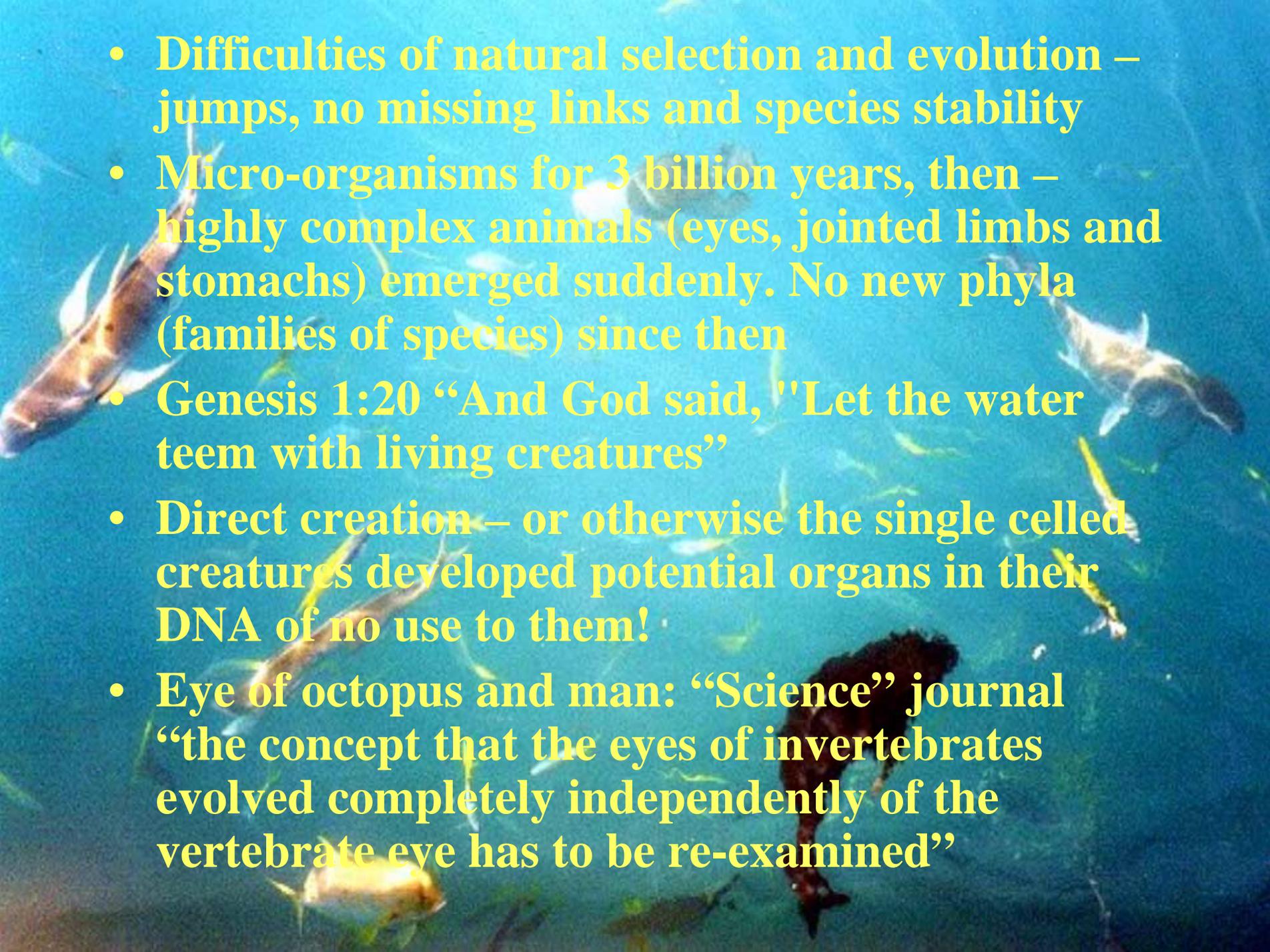
# Random chances?

- **Nature of our galaxy**
- **Position of the sun in it, and its stable burning**
- **Our distance from the sun and rotation period**
- **Jupiter protecting from comets**
- **Molten core protecting from cosmic rays.....**
  
- **128 unique characteristics – chance of their combination 1/10 to the 144**



# The miracle of life

- **Atheists cling to eternal universe to give life a chance to start at random**
- **Ilya Prigogine (Nobel Prize for chemistry) “the idea of a spontaneous generation of life is improbable, even on a scale of billions of years”**
- **Fred Hoyle - a whirlwind hitting a junkyard spontaneously building a 747**
- **In fact life emerged as soon as surface cooled and water emerged – as in Day 3 of Genesis “the earth brought forth (plant) life”**
- **Spontaneity ruled out**

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- An underwater scene with various fish and a diver. The background is a deep blue ocean. In the foreground, there are several fish, including a large brown and white fish on the left, a smaller yellow and black fish in the center, and a dark fish on the right. A diver is visible in the lower right corner, partially obscured by the text. The text is overlaid on the image in a yellow, bold font.
- **Difficulties of natural selection and evolution – jumps, no missing links and species stability**
  - **Micro-organisms for 3 billion years, then – highly complex animals (eyes, jointed limbs and stomachs) emerged suddenly. No new phyla (families of species) since then**
  - **Genesis 1:20 “And God said, ‘Let the water teem with living creatures’”**
  - **Direct creation – or otherwise the single celled creatures developed potential organs in their DNA of no use to them!**
  - **Eye of octopus and man: “Science” journal “the concept that the eyes of invertebrates evolved completely independently of the vertebrate eye has to be re-examined”**

# Creation of man

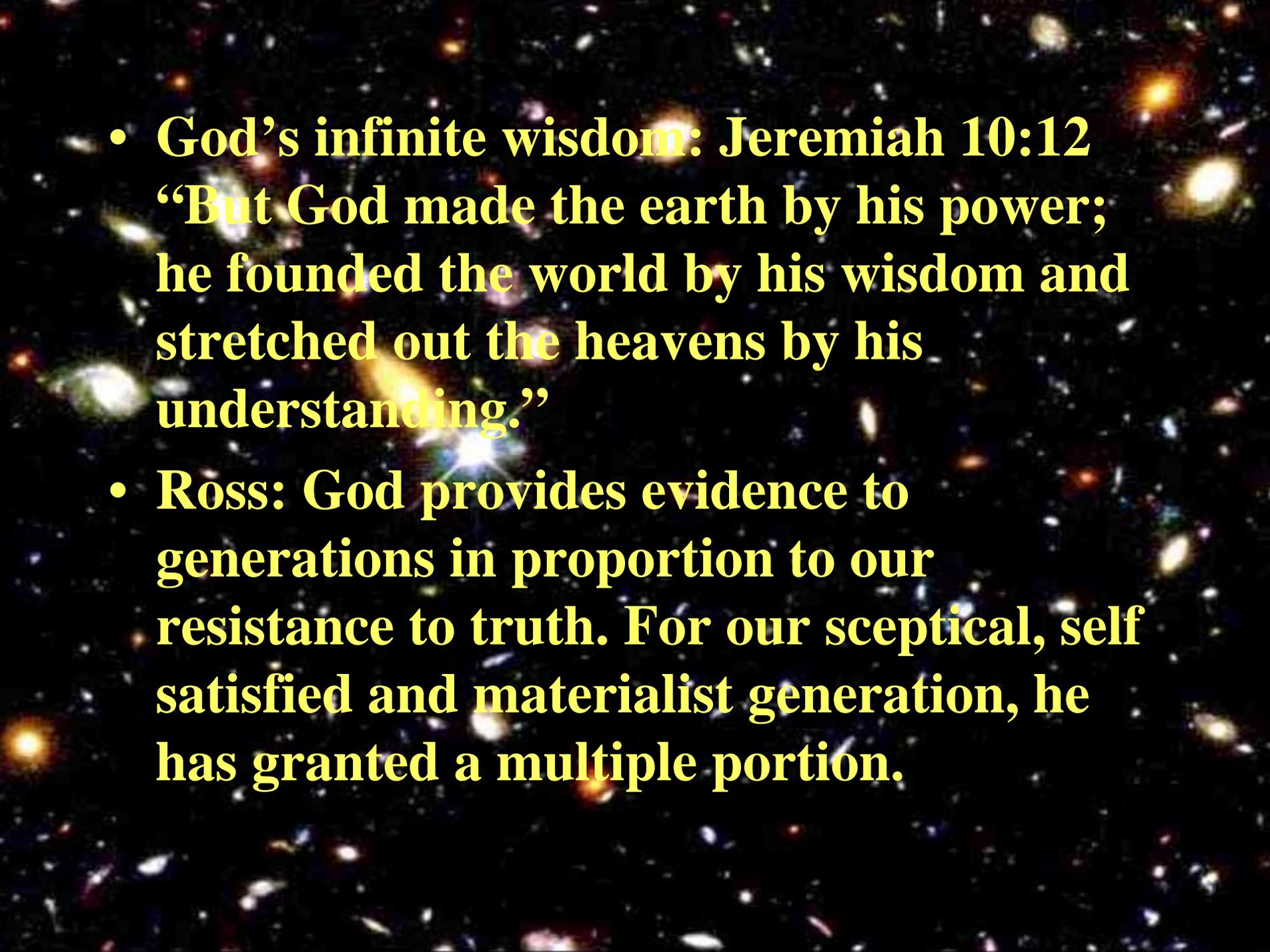
- Psalm 139:14 “I praise you because I am fearfully and wonderfully made; your works are wonderful, I know that full well.”
- Genesis states the word “created” only for universe, animal life and humans
- Possibilities
  - God made man from nothing
  - God used genetic raw materials and created the human spirit (“Neshama”), as in Genesis 2:7
  - Evolution and natural selection? Genetic differences between apes and men require 40 million generations of random mutations – fossils suggest 7 million years

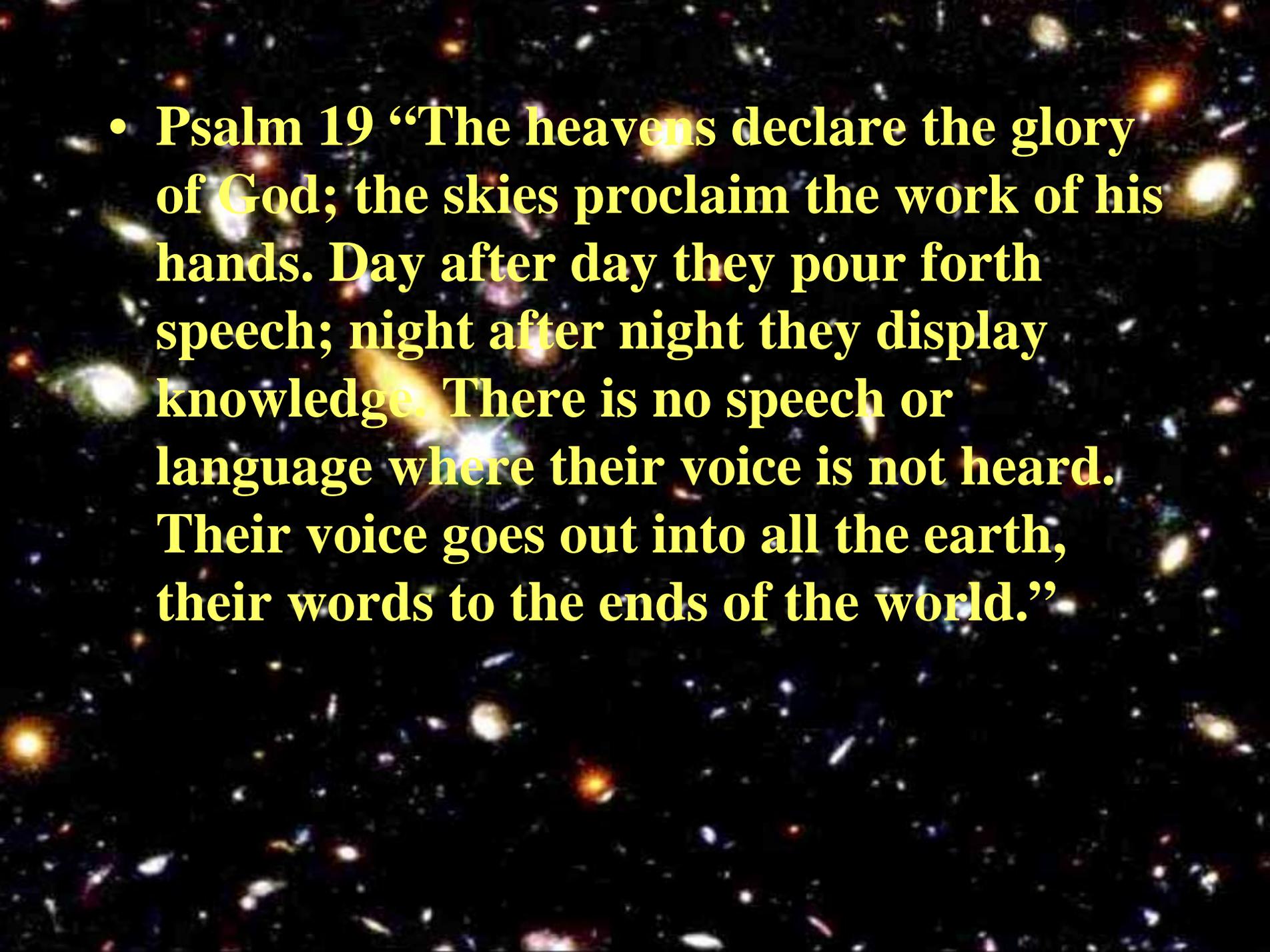
# Dimensions beyond space and time

- Before universe began, there was no time
- Science coming in line with Bible; 2 Timothy 1:9 “This grace was given us in Christ Jesus before the beginning of time”
- String theory – universe had to have 10 dimensions at the outset, only 4 expanded
- God can use additional ones he created
- Can help understanding of Trinity, predestination/free will, God’s nearness to us, ubiquity and invisibility, Jesus’ appearance to his disciples in the locked room, and Jesus promise never to leave us

# Conclusion

- **Scientists increasingly astonished at revealed order of creation – converging on Bible’s unchanging worldview**
- **Robert Jastrow, astronomer “For the scientist who has lived by his faith in the power of reason, the story ends like a bad dream. He has scaled the mountains of ignorance; he is about to conquer the highest peak; as he pulls himself over the final rock, he is greeted by a band of theologians who have been sitting there for centuries”**

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- **God's infinite wisdom: Jeremiah 10:12**  
**“But God made the earth by his power; he founded the world by his wisdom and stretched out the heavens by his understanding.”**
  - **Ross: God provides evidence to generations in proportion to our resistance to truth. For our sceptical, self satisfied and materialist generation, he has granted a multiple portion.**

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- **Psalm 19 “The heavens declare the glory of God; the skies proclaim the work of his hands. Day after day they pour forth speech; night after night they display knowledge. There is no speech or language where their voice is not heard. Their voice goes out into all the earth, their words to the ends of the world.”**

# Why do people not hear?

- **Information? – I encourage you to read and learn! Don't stick with what you learnt in school!**
- **Don't be like proud scientists: 1 Corinthians 1:20 “Where is the wise man? Where is the scholar? Where is the philosopher of this age? Has not God made foolish the wisdom of the world?”**
- **The atheist scientists are like gamblers, convincing themselves a coin is fair although it has shown heads 10,000 times**

- **Nature and science tell all mankind that they have a benevolent creator.**
- **Nature and science alone are not enough. The Bible tells us nature and life have a purpose which science does not.**
- **Bible clarifies how God bridged the gulf between us and him in Jesus Christ for a personal and everlasting relationship, if we are ready in submission and humility.**
- **Contemplating the awesomeness of what God created through the eyes of science may help us reach this position of submission and humility.**

