

# **Science and the Bible**

## A Biblical Studies Class

NOTE: Further details and references are listed in the supplementary class notes

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# Major Points

- The account of the creation of this heaven and earth in the Bible is true.
- Nothing in *proven* science contradicts the Biblical account of creation.
- Numerous scientific discoveries *support* what the Bible says.
- The record of the end of this heaven and earth in the Bible is true.



# Part One

## The Creation and Age of the Earth

# God the Creator

- Gen 1:1 In the beginning God created the heavens and the earth
- Gen 1:21 God created great whales, and every living creature that moveth
- Gen 1:27 God created man in his *own* image, in the image of God created he him
- Gen 2:7-8 the LORD God formed man *of* the dust of the ground, and breathed into his nostrils the breath of life; and man became a living soul

# Not Just Genesis!

Is 45:12 I have made the earth, and created man upon it

Eph 3:9 God, who created all things

Heb 11:3 Through faith we understand that the worlds were framed by the word of God, so that things which are seen were not made of things which do appear.

*See supplementary class notes for MANY related verses*

# Early Bible Chronology

<b>Gen 1:27</b>	<b>Adam</b>	<b>4004 B.C.</b>
Gen 5:3	Seth	3874
Gen 5:6	Enos	3769
Gen 5:9	Cainan	3679
Gen 5:12	Mahalaleel	3609
Gen 5:15	Jared	3544
Gen 5:18	Enoch	3382
Gen 5:21	Methusaleh	3317
Gen 5:25	Lamech	3130
Gen 5:28	Noah	2948
Gen 7:11	Flood Year	2348

# Scientific Dating of the Age of the Earth

- *The generally accepted age for the Earth and the rest of the solar system is about 4.55 billion years (plus or minus about 1%). This value is derived from several different lines of evidence.*
- *The oldest rocks which have been found so far (on the Earth) date to about 3.8 to 3.9 billion years ago (by several radiometric dating methods).*

# Biblical Dating of the Earth

Genesis 1:1

In the Beginning God created the heavens and the earth

Gen 1:2

The earth was [*hayah* – “was” or “became”] without form [*tohu*] and void

Gen 2:7

Man **became** (*hayah*) a living soul

Gen 4:2

Abel **was** (*hayah*) a keeper of sheep, but Cain **was** (*hayah*) a tiller of the ground

Gen 19:26

She **became** (*hayah*) a pillar of salt

Gen 24:67

She **became** (*hayah*) his wife

Gen 26:13

He **became** (*hayah*) very great

Num 26:64

Among these there **was** (*hayah*) not a man

Judges 13:2

There **was** (*hayah*) a certain man

I Sam 1:1

Now there **was** (*hayah*) a certain man of Ramathaimzophim

# Which is It?

How is Gen 1:2 to be understood?

The earth **was** without form and void

or

The earth **became** without form and void

Isa 45:18 He created it **not** in vain

[same Hebrew word as in Gen 1:2: *tohu*]

# Three Heavens and Earths

II Peter 3      The first, second, and third heaven and earth

vss. 5-6      The world that then was (first)...perished  
(destroyed)

vs. 7      The heavens and earth, which are now  
(second)

vs. 13      New heavens and a new earth (third)

*The earth as we know it was reformed around 4000 B.C.*

*What occurred before that is covered primarily in two  
verses (Gen 1:1-2)*

# Commonly Accepted Early Chronology

- 4,550,000,000 B.C. Earth Formed
- 4,000,000 B.C. Earliest Bipedal Hominids
- 120,000 B.C. Neanderthals, *Homo sapiens*
- 30,000 B.C. Earliest cave art
- 10,500 B.C. Earliest known pottery
- 10,000 B.C. Ice sheets retreat – last ice age comes to an end
- 10,000 B.C. *New Stone Age* (Neolithic) begins
- 6,500 B.C. Earliest cultivation, textiles, and domestication of cattle
- 4,500 B.C. *Bronze Age* Begins – earliest bronze tools

(4004 B.C. Adam and Eve)

- **3,500 B.C. civilization** **Development of first urban**
- **3,250 B.C.** **Earliest writing**
- **1,000 B.C.** **Iron Age** Begins – earliest iron tools

***"Young Earthers" dispute these dates***

# Examples of Art History

# 15,000-10,000 B.C.

## Frieze of Animals



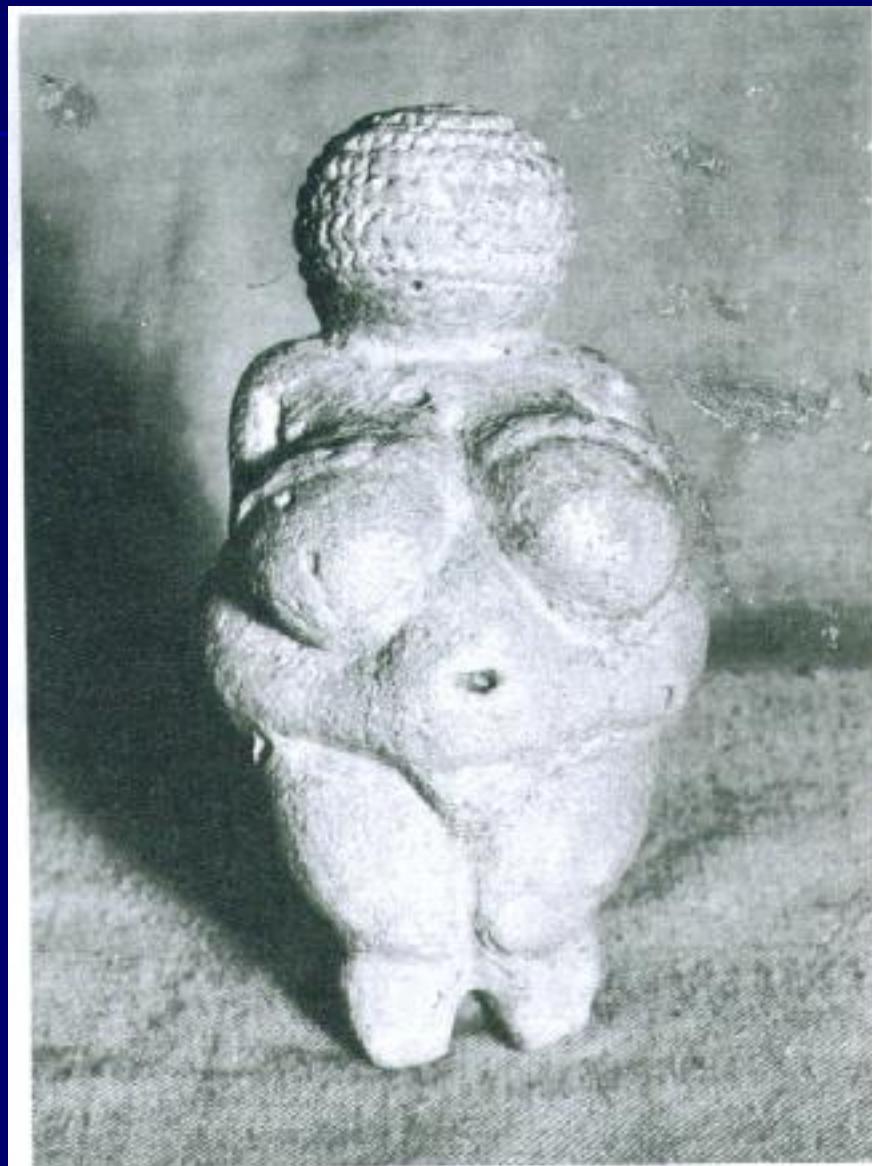
**15,000-10,000 B.C.**

**Wounded Bison**



# 15,000-10,000 B.C.

## Venus of Willendorf



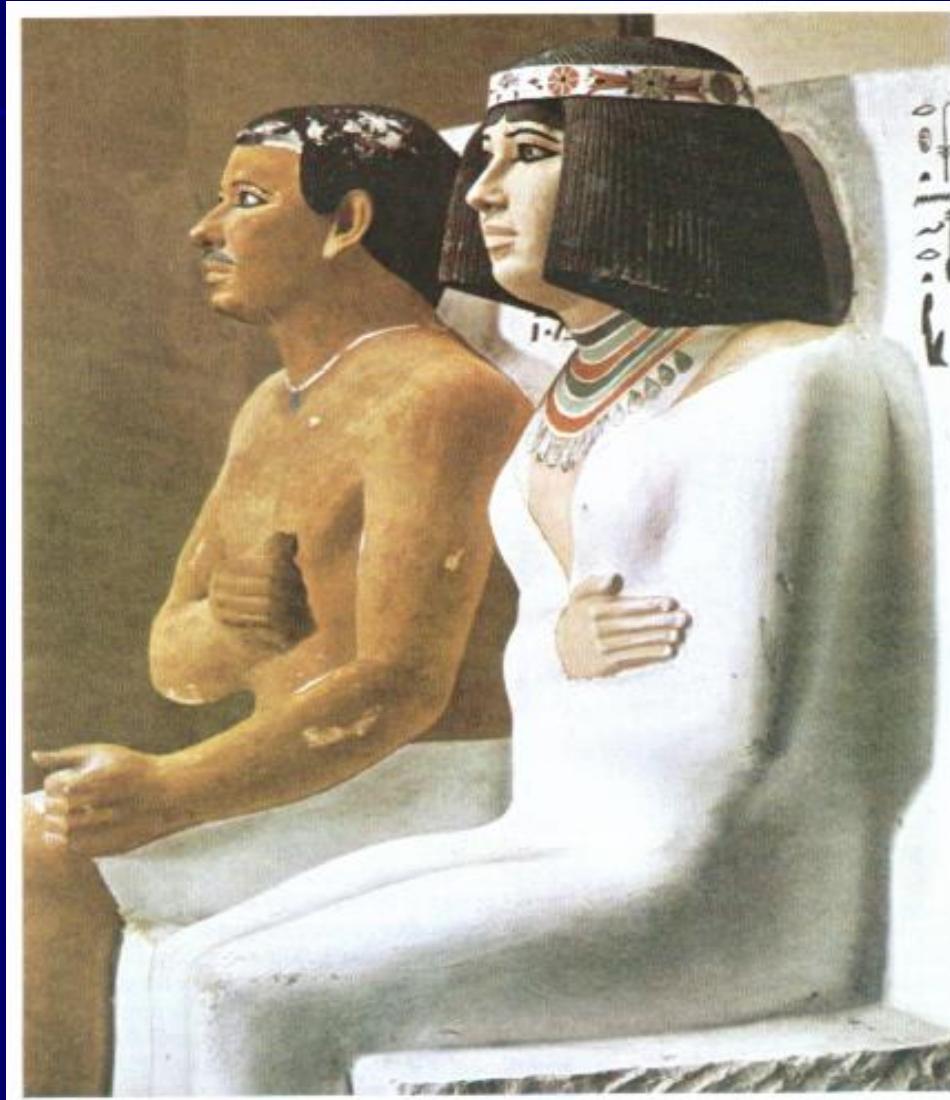
# 3000 B.C.

## Palette of King Narmer



# 2580 B.C.

## Prince Rahotep and His Wife



# 2500 B.C.

## Mycerinus and His Queen





# **Part Two**

## **The Origin of Mankind**

# Biblical Reproduction

Gen 1:11-12

Then God said, "Let the earth bring forth grass, the herb that yields seed, and the fruit tree that yields fruit **according to its kind** (Hebrew *miyn* – kind, species; Greek *genos* – race, kind, genus), whose seed is in itself, on the earth"; and it was so.

And the earth brought forth grass, the herb that yields seed **according to its kind**, and the tree that yields fruit, whose seed is in itself **according to its kind**. And God saw that it was good.

Gen 1:21

So God created great sea creatures and every living thing that moves, with which the waters abounded, **according to their kind**, and every winged bird **according to its kind**. And God saw that *it was* good.

Ge 1:24

Then God said, "Let the earth bring forth the living creature **according to its kind**: cattle and creeping thing and beast of the earth, *each according to its kind*; and it was so.

# Biblical Reproduction

Ge 1:25

And God made the beast of the earth **according to its kind**, cattle **according to its kind**, and everything that creeps on the earth **according to its kind**. And God saw that *it was* good.

Ge 6:20

Of the birds **after their kind**, of animals **after their kind**, and of every creeping thing of the earth **after its kind**, two of every *kind* will come to you to keep *them* alive.

Ge 7:14

they and every beast **after its kind**, all cattle **after their kind**, every creeping thing that creeps on the earth **after its kind**, and every bird **after its kind**, every bird of every sort.

Le 11:14ff

the kite, and the falcon **after its kind**

De 14:13ff

the red kite, the falcon, and the kite **after their kinds**;

# Genus and Species

- Species – a fundamental category of taxonomic classification, ranking after a genus, and consisting of organisms **capable of interbreeding**
- Genus – a taxonomic category ranking below a family and above a species

*The New American Heritage Dictionary*

# Scientific Classification of Humans (*homo sapiens*)

Kingdom: *Animalia*

Phylum: *Chordata*

Class: *Mammalia*

Order: *Primates*

Family: *Hominidae*

Genus: ***Homo***

Species: ***Sapiens***

# Principles of Genetics (Mendel)

- Based on studying 30,000 pea plants through seven generations over eight years:
  - Traits from the parent pea plants passed as unmodified genes to successive generations in set ratios
  - Each individual plant contained two genes that specified the form of each trait. One factor came from the egg and one from the sperm
  - Since each parent would also have two genes, the parents' pairs of genes had to separate during the forming of sex cells so that each sex cell only contained one form of the gene
  - Chance determined which of the four possible combinations of genes each offspring received

*And hath made of one blood all nations of men for to dwell on all the face of the earth – Acts 17:26a*

# The Three Tenets of Cell Theory

- All living things are made of cells
- Cells only arise from pre-existing cells by division. (In other words, life doesn't arise spontaneously out of nonliving things.)
- Cells are made of similar compounds with similar characteristics and biochemistries.

# Mutations

- Mutations (genetic change) happen frequently **within species**, for a variety of reasons (spontaneous, chemical, radiation)
  - Most mutations have no visible effect
  - Some mutations are helpful, leading to stronger traits
  - Many are harmful, leading to disease

*No laboratory-proven examples of a living organism mutating from one genus to another have been found*

# Microevolution (documented by geneticists worldwide)

- The study of changes **within species** due to genetic selection and mutation
- This can be documented in laboratory studies and fits with the Biblical precedent of all living things reproducing “**after their kind** (species/genus)”

# Macroevolution (popularized by Charles Darwin)

- The study of life beginning with nothing except chemical elements and then evolving through chance selection to the present. It is based on at least two *unproven* assumptions:
  - Life can arise spontaneously from chemical elements
  - Live organisms can mutate from one species/genus to another

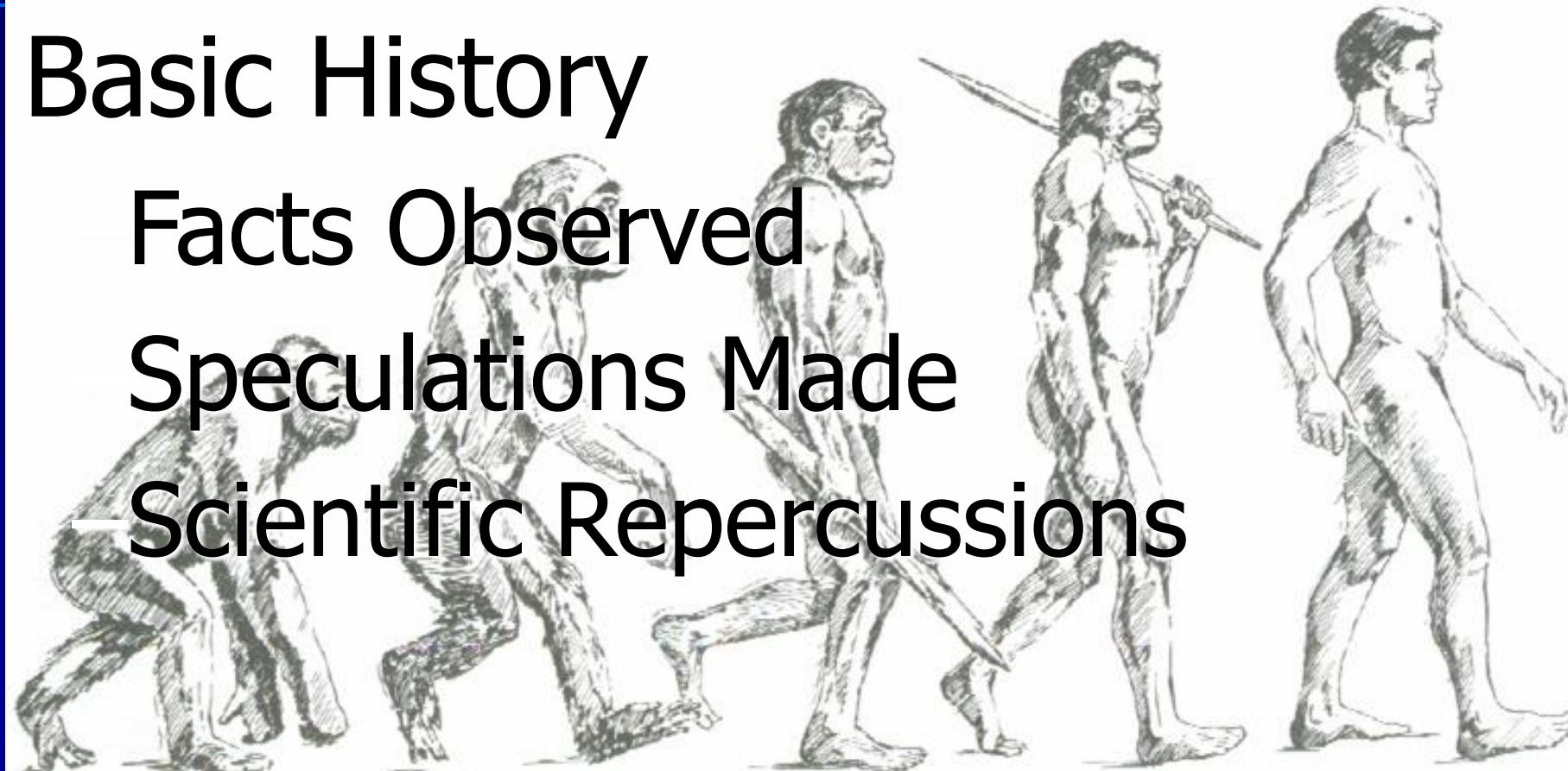
# Darwinism (aka *macroevolution*)

Basic History

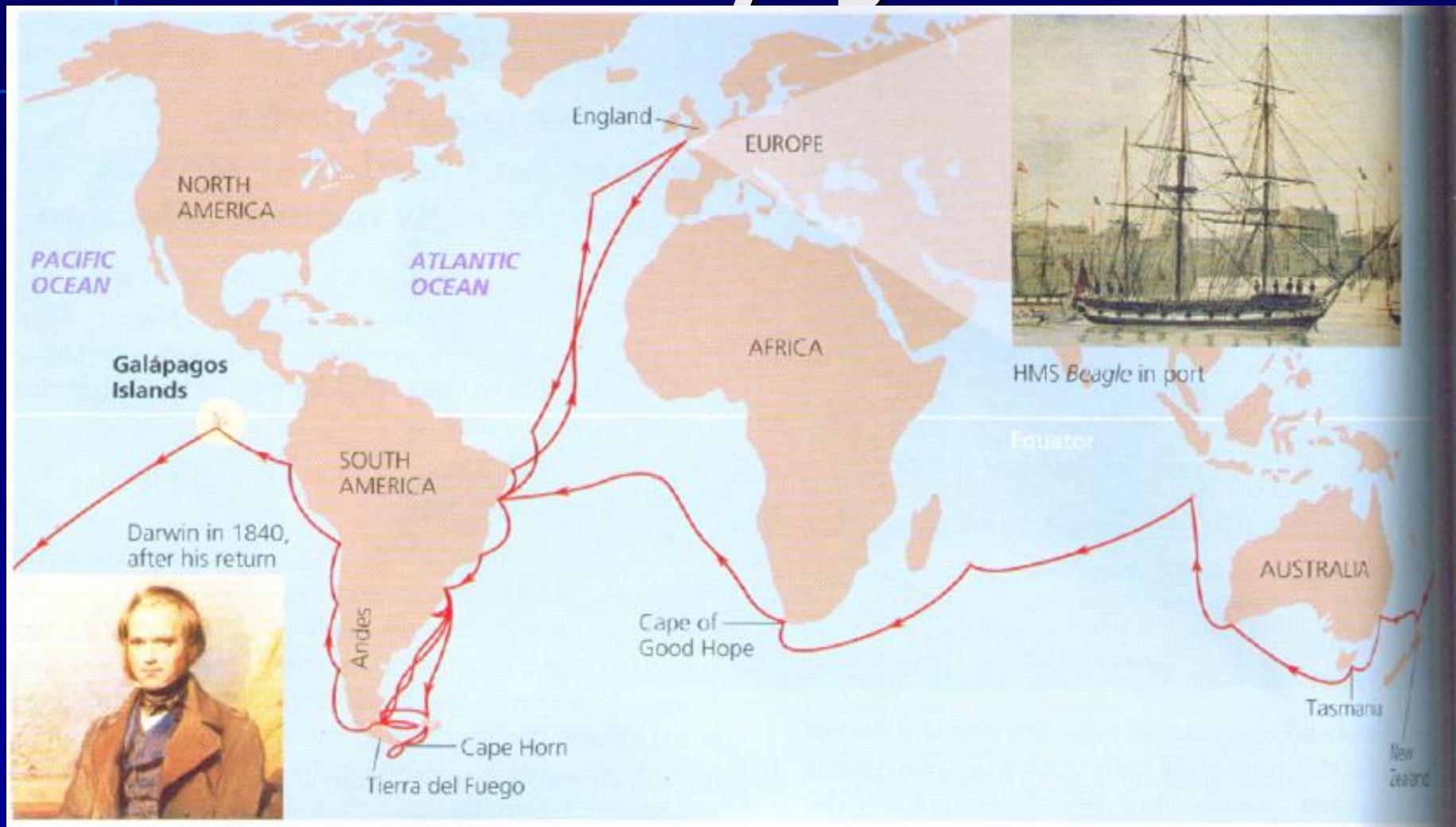
Facts Observed

Speculations Made

-Scientific Repercussions



# Darwin's Voyage



# Darwin's Finches



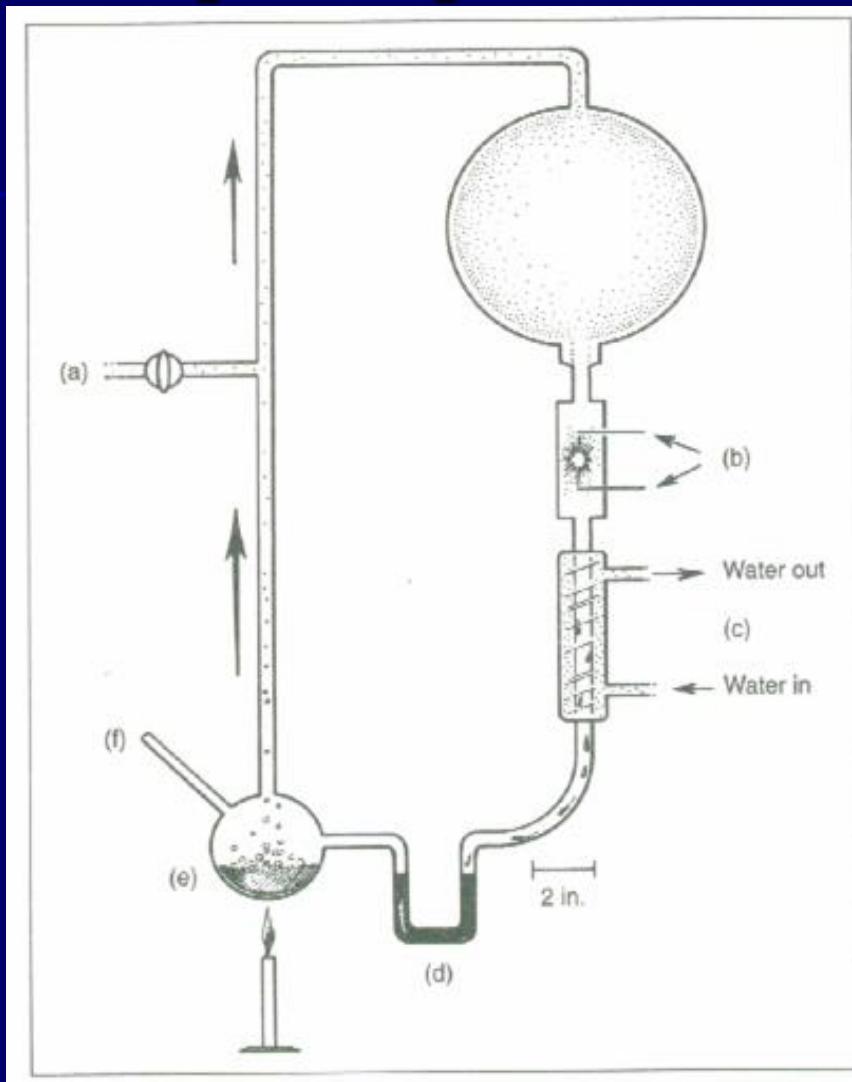
**Cactus eater.** The long, sharp beak of the cactus ground finch (*Geospiza scandens*) helps it tear and eat cactus flowers and pulp.



**Seed eater.** The large ground finch (*Geospiza magnirostris*) has a large beak adapted for cracking seeds that fall from plants to the ground.

**Insect eater.** The green warbler finch (*Certhidea olivacea*) uses its narrow, pointed beak to grasp insects.

# Miller-Urey Experiment (1952)



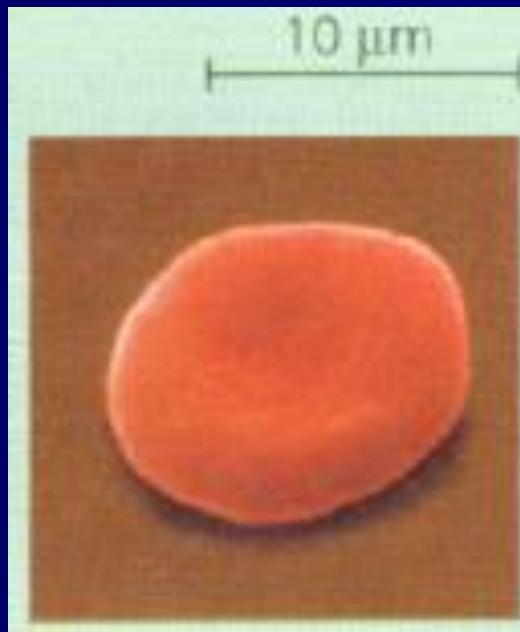
<http://scottellis.net/personal/resume/portfolio/miller/index.html>

# Problems with Miller-Urey Experiment

- Started with Wrong Atmospheric Chemicals (aka *Primordial Soup*)
- Closed System
- Resulted in Wrong Amino Acids

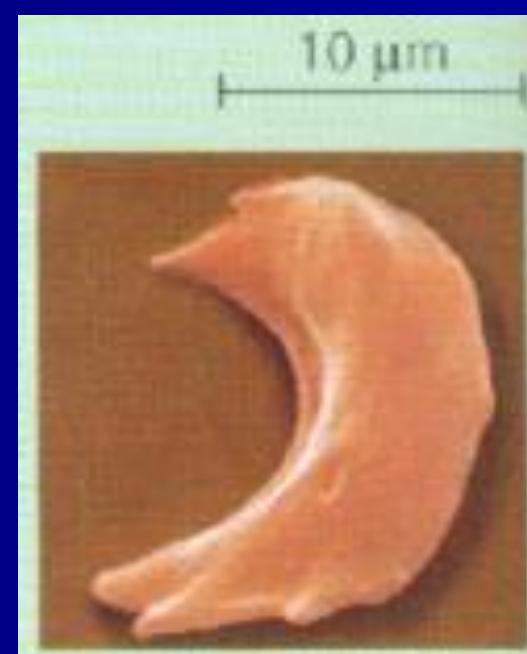
# Correct Amino Acids

Normal hemoglobin						
Val	His	Leu	Thr	Pro	Glu	Glu
1	2	3	4	5	6	7



Healthy red blood cell  
with correct amino acids  
in the correct  
sequence

Sickle-cell hemoglobin						
Val	His	Leu	Thr	Pro	Val	Glu
1	2	3	4	5	6	7



Sickle cell anemia blood  
cell caused by **one**  
incorrect amino acid in  
the incorrect sequence

# Miller-Urey Experiment (cont.)

## ■ Not Enough Time

- ... *Miller, along with their fellow researchers, believed that this prebiotic model for the "primordial soup" would have needed billions of years before it could create life . Science now faces a dilemma because the oldest rocks found on the planet date from 3.5 to possibly 3.85 billion years ago found on the planet , and they, indeed, contain single-celled organisms*  
[<www.idurc.org/archive/bau\\_chemical evolution.htm>](http://www.idurc.org/archive/bau_chemical evolution.htm)

## ■ Amino Acids Immeasurably Far from Functional and Actual Life

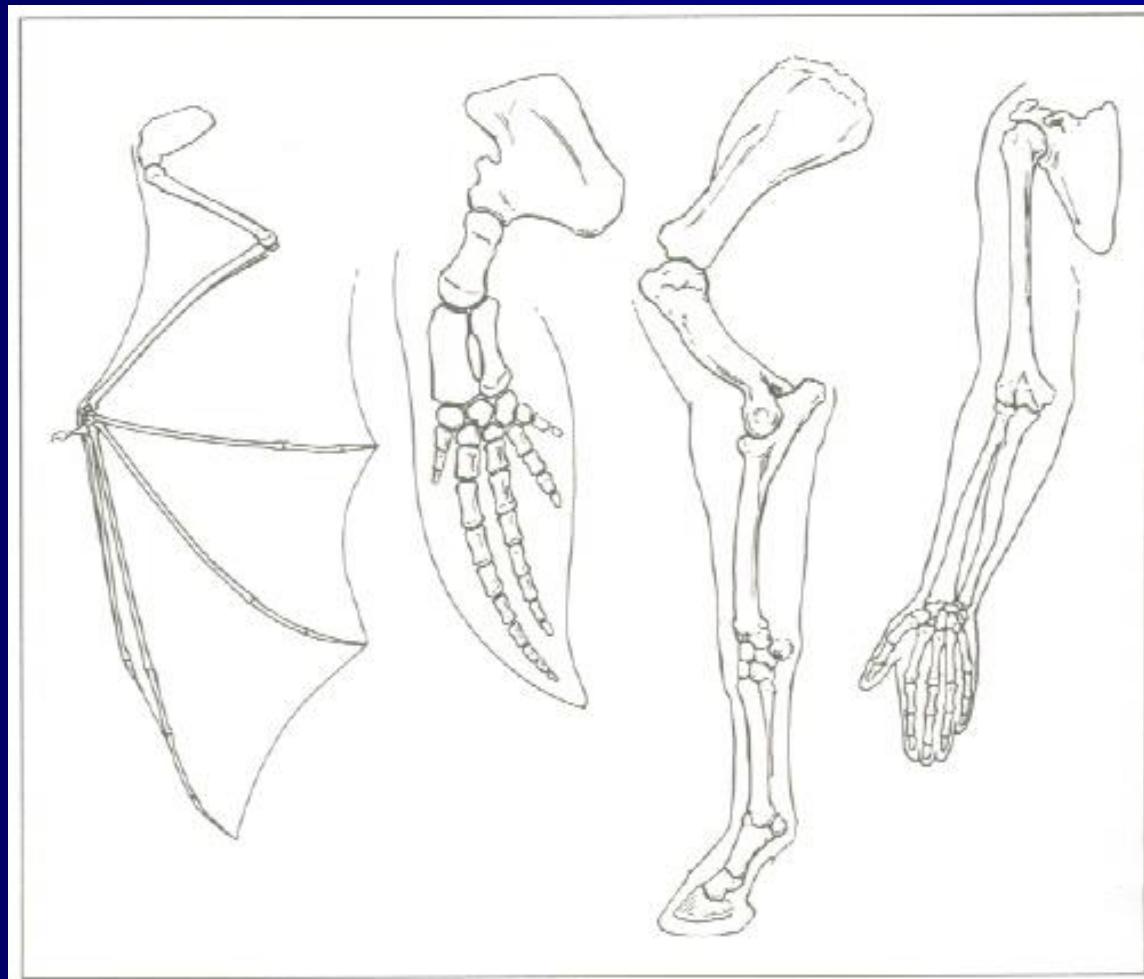
- Reading from *The Case for a Creator*, Chapter 3

*Homology proclaims “so plainly that the innumerable species, genera, and families, with which this world is peopled, are all descended, each within its own class or group, from common parents.”*

- Charles Darwin, *The Origin of Species*

# **Homology**

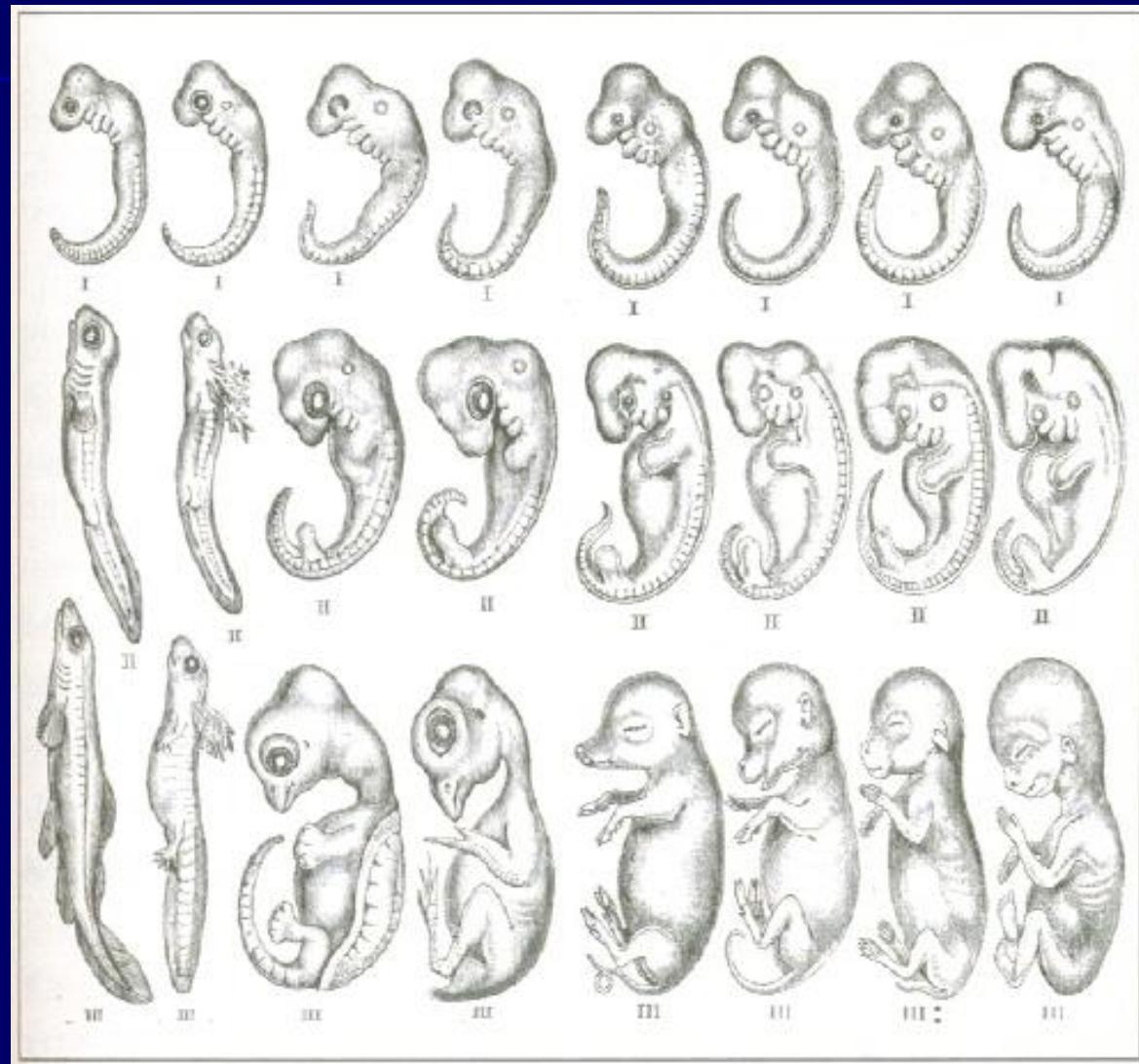
## **(Similarities Between Living Organisms)**



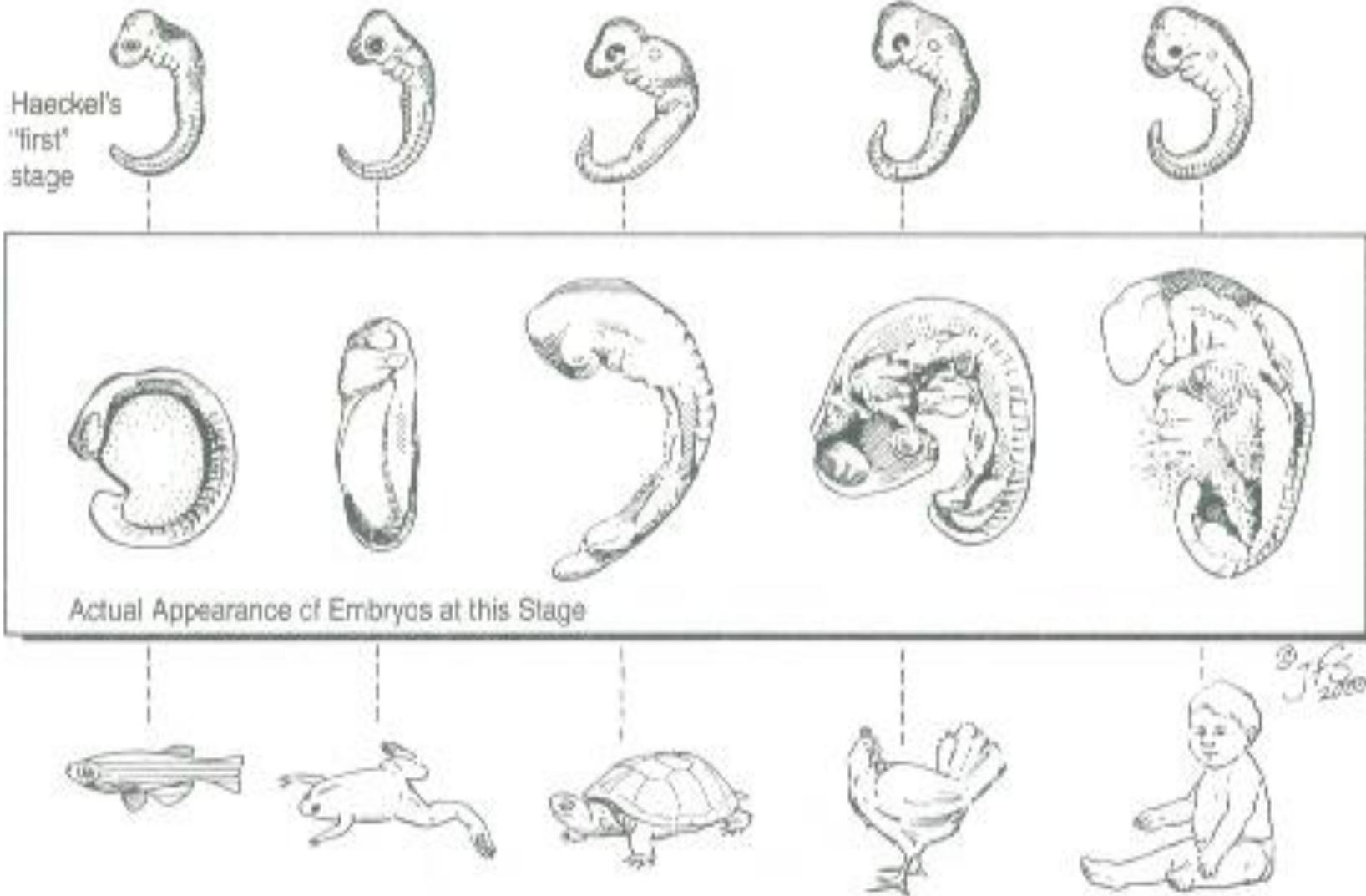
# Not Homology?



# Haeckel's Embryos



# Actual Embryos



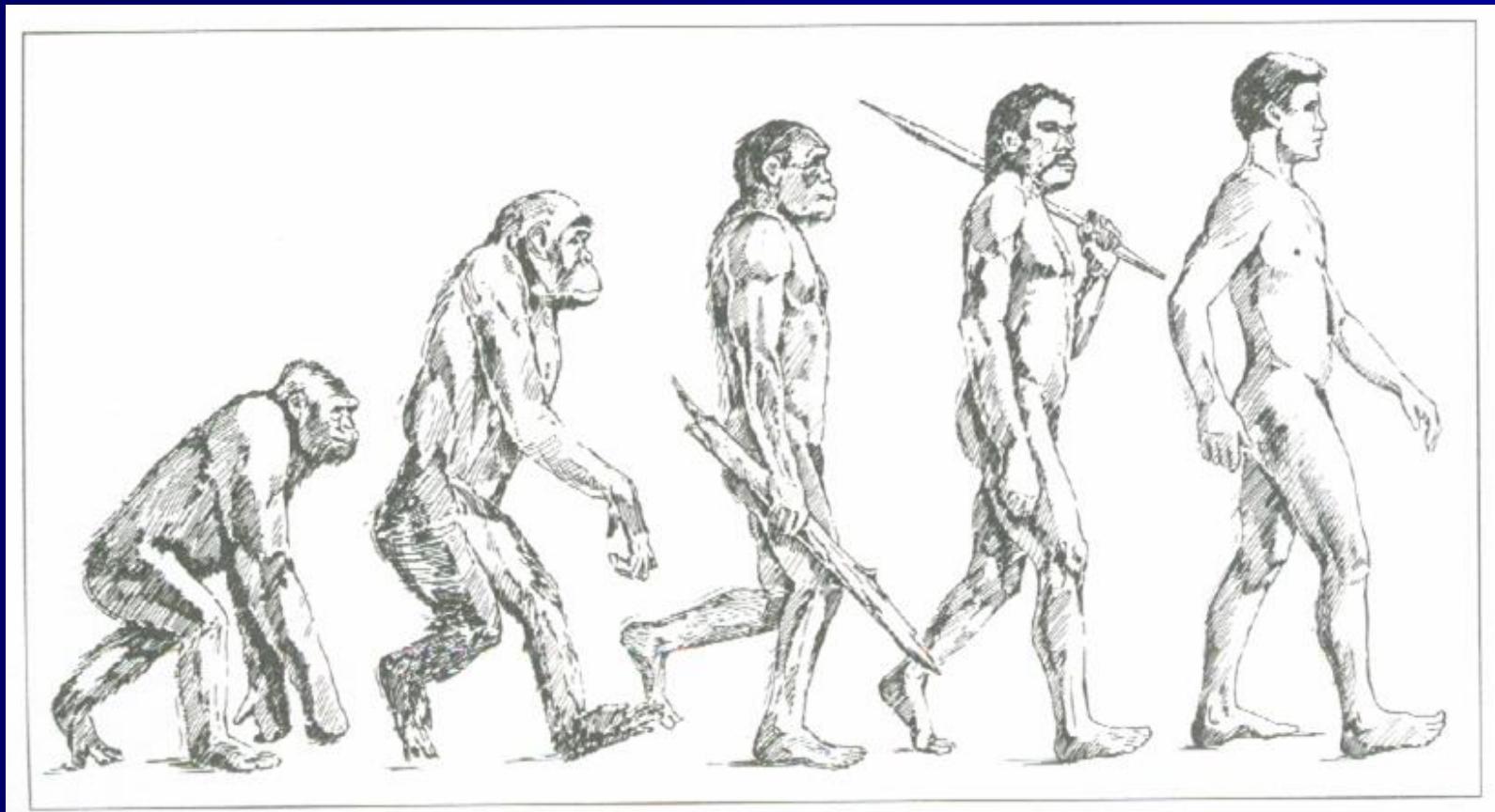
# Piltdown Man



# Java Man

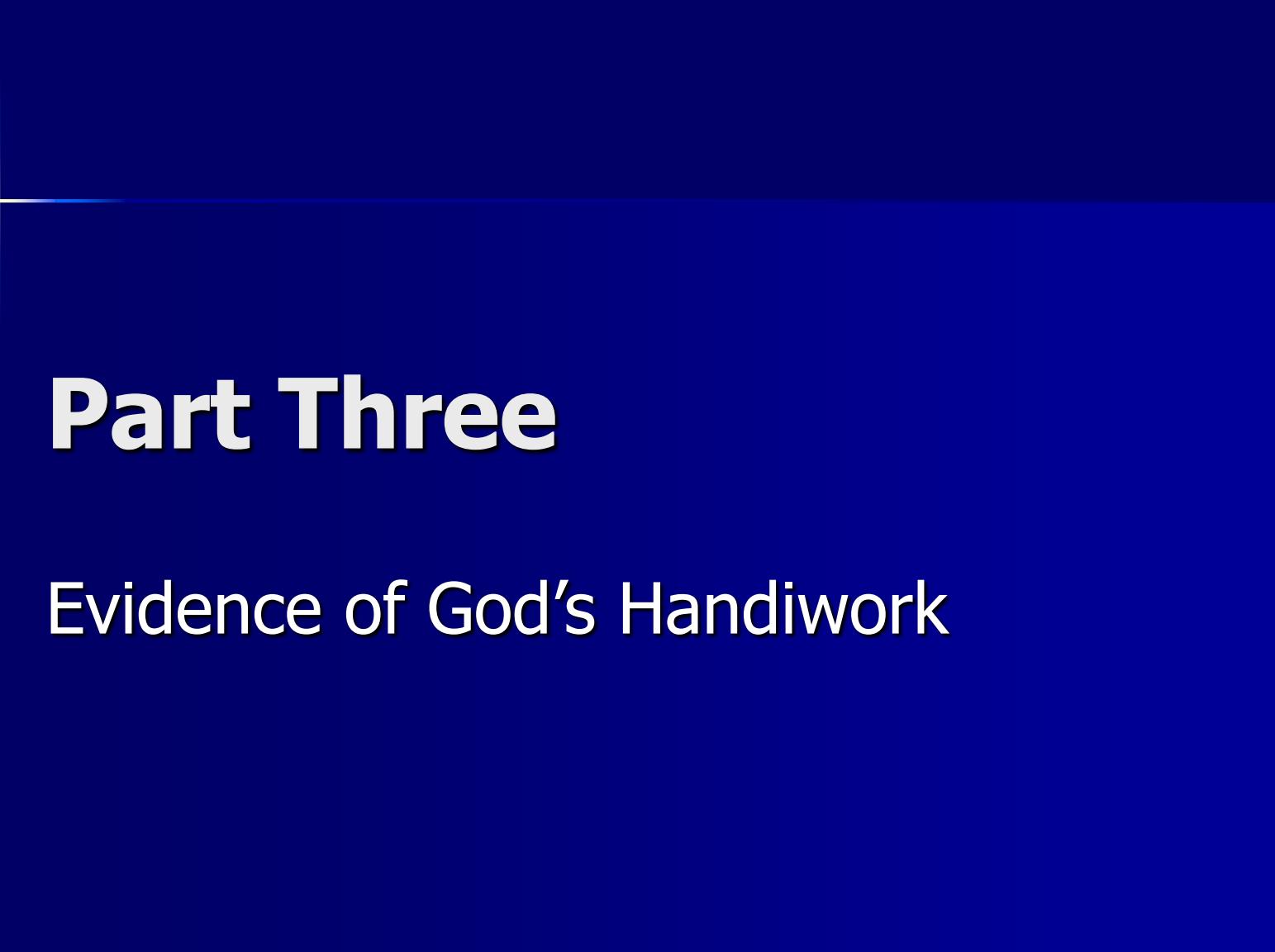


# The Ultimate Icon



# The Actual Fossil Record

- Video Clip from *Icons of Evolution*



# Part Three

## Evidence of God's Handiwork

# Men of Science – Men of God

- Sir Isaac Newton
- George Washington Carver

# Materialism – Science or Mythology?

- *The theory that physical matter in its movements and modifications is the only important reality and that everything in the universe including thought, feeling, mind, and will is explainable in terms of physical laws.*

*Materialism cannot explain the origin of the universe*

# Our Expanding Universe

- Greeks considered universe to be eternal and unchanging
- Scientists (starting with Einstein and Hubble) have recently shown that the universe is expanding, which leads them to believe that it had to start as a result of some cause (e.g. "designer")
- "Big Bang" is their explanation, similar to planting a small seed that blossoms into a large tree
- Illustrations of Expansion (Balloons & Cars)
  - First law of thermodynamics – conservation of energy (energy can neither be created nor destroyed)

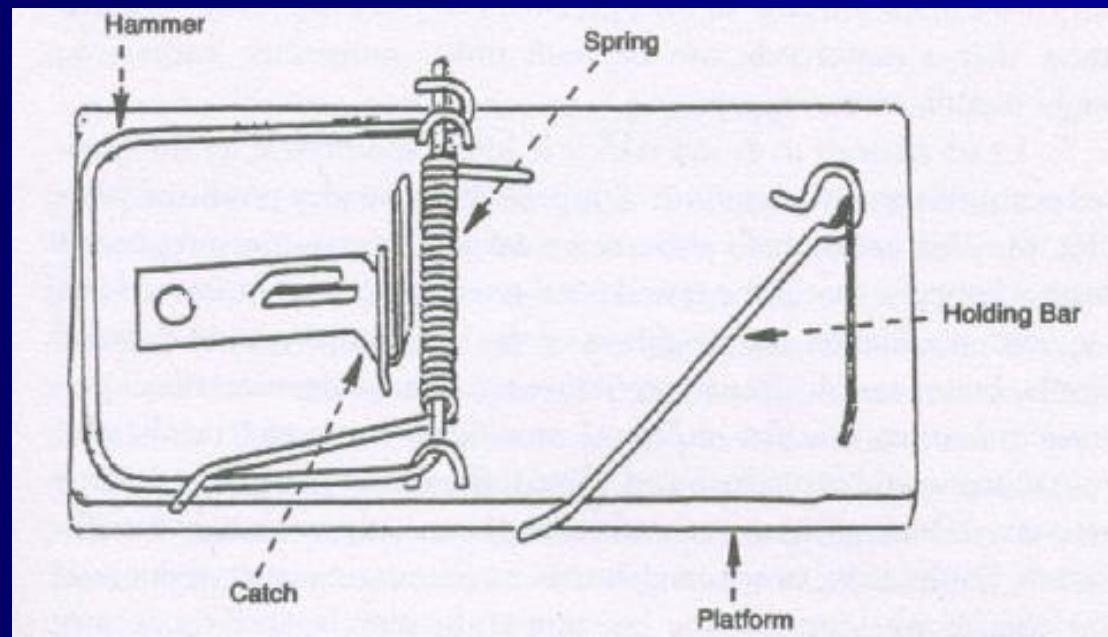
# Evidence in Science of God's Hand at Work

- Ps 19:1      The heavens declare the glory of God
- Rom 1:18-20 The invisible things of God...are clearly seen...
- Video clips from *Our Privileged Planet*
- Anthropic Principle

# Irreducible Complexity

## ■ Mouse Trap

- All parts must be present
- All parts must be in proper location
- Parts must be good enough to function



# Irreducible Complexity (cont.)

- Dominoes
  - Cascade
  - Example with books

***Minimum Functionality*** is required for natural selection to work

# Irreducible Complexity – Biological Examples

- Blood Clotting
- Cilia
- Video clip from *Mysteries of Life*

# Lessons From a Wheat Plant



# **Part Four**

## **The End of This World (and the start of a new!)**

# The New Heaven and Earth

John 3:16

Whosoever believeth in him should not perish (Greek *apollumi*: be destroyed, abolished, put to an end), but have everlasting life

I Cor 1:18

For the preaching of the cross is to them that perish (*apollumi*) foolishness

I Cor 15:12-23

Then they also which are fallen asleep in Christ are perished (*apollumi*-vs. 18)

Heb 2:14-15

Deliver them who through fear of death were all their lifetime subject to bondage (He himself likewise also partook of the same, that through death He might render powerless him who had the power of death, that is, the devil - NASB, vs. 14)

# The New Heaven and Earth (cont.)

Rom 8:22

The whole creation groaneth and travaileth in pain

I Thes 4:13-18

The dead in Christ shall rise first:  
Then we which are alive and remain shall be caught up together with them in the clouds (vss. 16-17)

II Cor 12:1-4

Caught up (away) to the third heaven

Rev 2:7

The paradise of God

# The New Heaven and Earth (cont.)

Rev 20:1-6

First Resurrection (Death hath no more power, dieth no more)

Rev 20:7-15

Second Resurrection (Some to second death)

Rev 21:1-8, 23 New Jerusalem (first: former)



# **Part Five**

## **Supporting Material**

# God's Orderly Universe

- *The Heavens Declare*
- The Law and Order of God  
(science show)

*Prove all things; hold fast that which is good*  
- I Thes 5:21