Engaging Science and Faith with Confidence

Week 3:

How Old is the Earth?

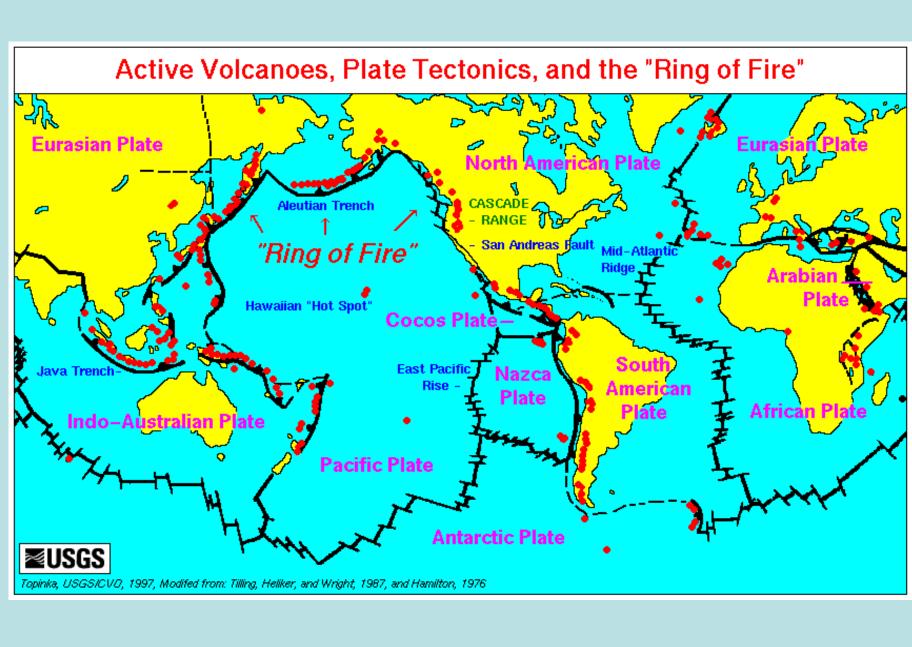
Grace Chapel High School Ministry
November 30, 2014
Margie Bose

GCScience

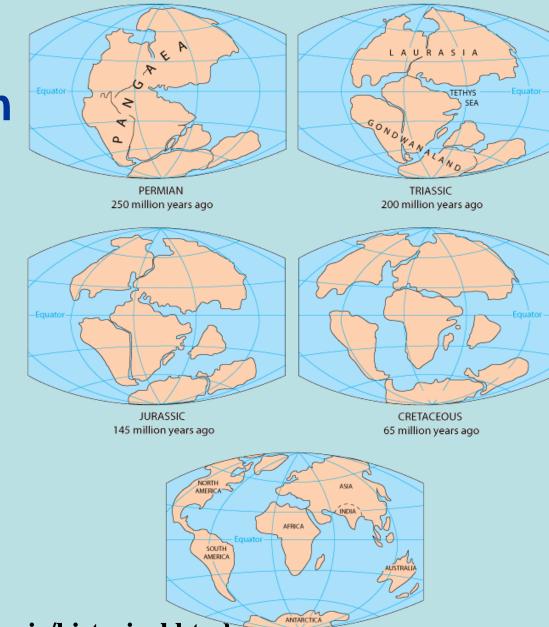
A Network of Scientists at Grace Chapel

Topics

- Week 1: Science and faith: do we have to choose?
- Week 2: What does Genesis tell us about creation?
- Week 3: How old is the earth?
- Week 4: Evolution and Christian faith
- Week 5: Whom do you trust in science?



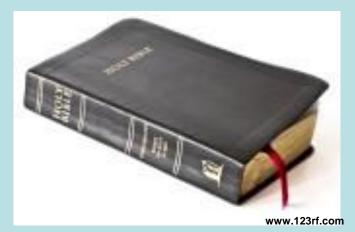
Tectonic Plate Reconstruction



http://pubs.usgs.gov/gip/dynamic/historical.html

PRESENT DAY

Interpretation: Bible and Natural World



How to interpret Scripture

– Can information from the natural world contribute to understanding the Bible?

How to interpret Nature

– Did the authors intend Bible to be used to understand the natural world?



Harmony of Bible & Nature

 Two books of God: the Word and the World; Natural Revelation & Scripture

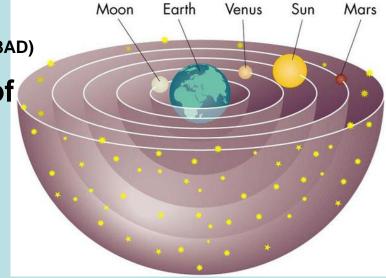
- Origen (186-254 AD)
 - God as author harmony
- Thomas Aquinas (1225-1274)
 - Rightly understood, natural philosophy could not contradict theology or faith.
- Francis Bacon (1561-1626)
 - Natural world worthy of study, a key to Scripture.
 - The glory of God is revealed in the mechanisms of natural processes.

www.123rf.com

1 Astronomy (1543-1700): Geocentric worldview

- Based on teachings of Aristotle (384–322BC) and Ptolemy (90-168AD)
- Common sense of the day, lack of evidence to the contrary young earth, global flood, 7-day creation.

 Interpretations of Scripture were consistent with this view



Model wasn't working well:

- Calendar problems
- Need for better ocean navigation

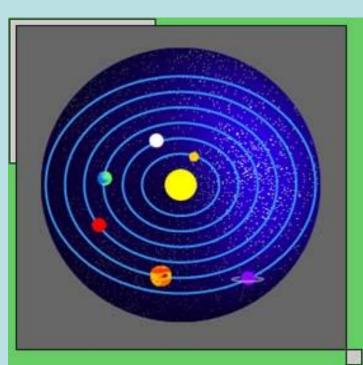
Invention of telescope, provided data

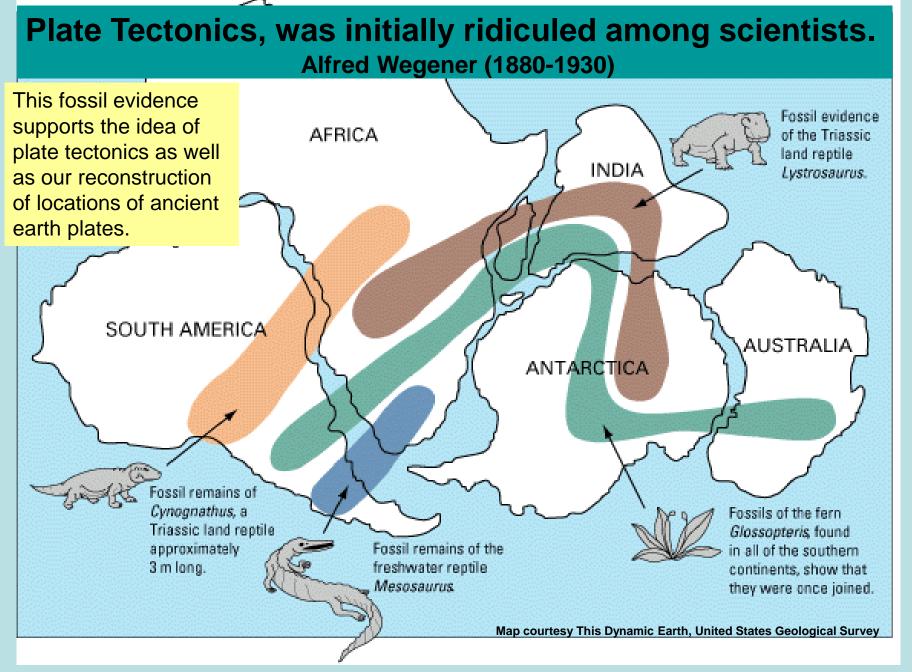
Bible Interpretation

- **Ps 19:4b-6** In the heavens he has pitched a tent for the sun, ...<u>It rises</u> at one end of the heavens and makes its circuit to the other;
- Ps 104:5 He set the earth on its foundations;
 it can never be moved.
- Ecc 1:5 The sun <u>rises</u> and the sun <u>sets</u>, and hurries back to where it rises.

Change to Heliocentric Worldview

- Copernicus published in 1543
- Galileo (1564-1642): opposition from astronomers and church
 - God's two books; appealed to Augustine on interpretation of Scripture. "How to go to heaven, how the heavens go"
- Re-interpretation of Scripture & universal worldview
- 150 years before widely accepted





-- Table Discussions --

Have you grown up with:

- a scientific world view?
- an anti-science or young earth worldview?
- or somewhere in-between?

Does the idea of two books of God make sense to you?



How God did it

Young Earth Creationism (universe formed over six 24-hour days)

Old Earth Creationism (universe formed over six long age periods)

Evolutionary Creationism(evolution as a natural process within God's creation)

Massachusetts Geology



Multiple metamorphism events



Dinosaur footprints

How God did it

Young Earth Creationism (universe formed over six 24-hour days)

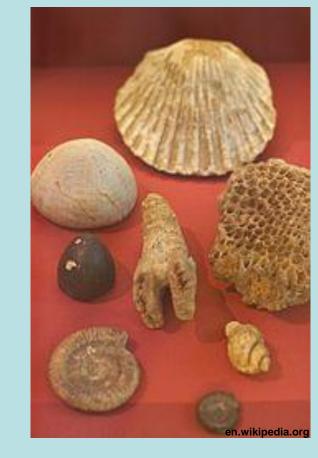
Old Earth Creationism (universe formed over six long age periods)

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2 Geology

Early stratigraphy 17th Century

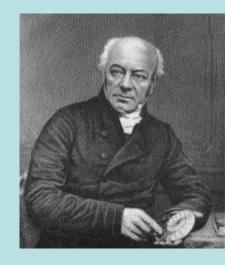
- William Smith (1769-1839)
 - Observations!
 - Rock layers had predictable pattern



Layers could be identified by the fossils it contained

Early British Geologists

- Many were theologians
 - Rev. William Buckland (1784-1856) Oxford



- Rev. Adam Sedgwick (1785-1873) Cambridge
 - theological conservative

- John Pye Smith (1774-1851)
 - Reconciling geological time w Scripture

Early Geology Understandings

- Competing geological theories & models
 - Catastrophism.
 - Uniformitarianism
- Initially agreed w 6x24 hour days

- In 1790 4004BC date of creation, okay
- By 1810 all geologists accepted a vast age.

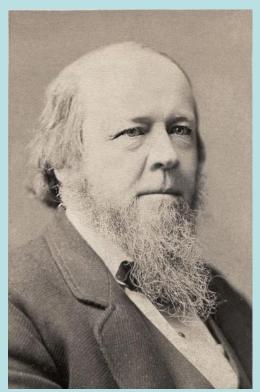
Early Geology in New England

Benjamin Silliman

(1779-1864, Yale)

 Old-earth harmony with Bible

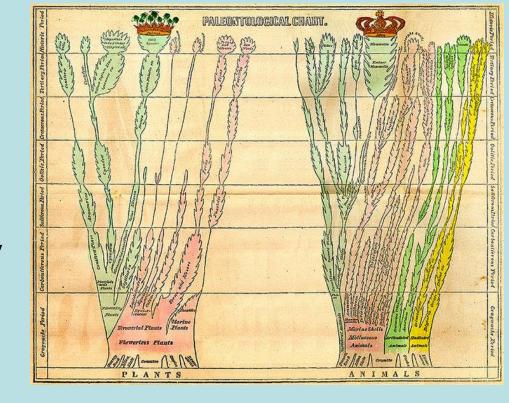
 Popular with general public as a lecturer with a love of science and obvious love for God.



www.picturehistory.com

Rev. Edward Hitchcock (1793-1864)

- Yale: prep for ministry
- Old-earth
- harmony with Bible



1851 The Religion of Geology

- "the facts of science, rightly understood, should not contradict the statements of revelation, correctly interpreted."
- Paleontological chart 1840 (Darwin's Origin of Species, 1859)

By 1850s Christians in geology agreed:

- Long time needed for geologic layers
- Earth extremely old; death in animals before Fall

Geology did not support a global flood.

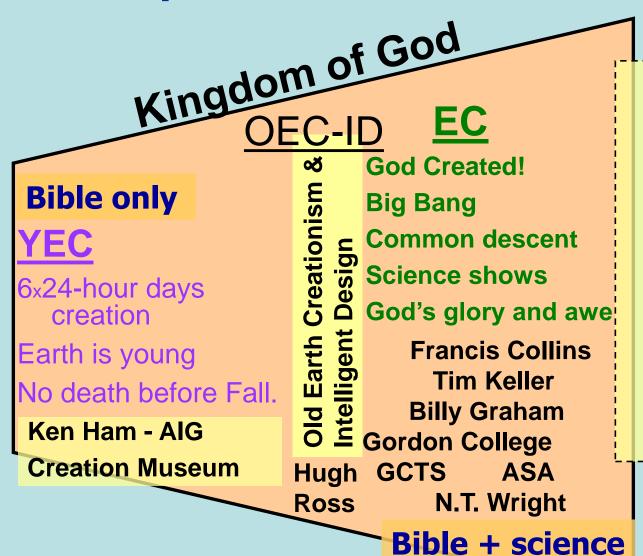
 Theologians need input from science for interpretation of the Bible.

Early 20th Century Creationists

- Flood 'Geology'
- 7th Day Adventists 'Diluvianists.' first 50 years of 20th Century

- George McCready Price (1870–1963).
 - he could "barely tell one fossil from another"
 - 1923: The New Geology
- The Genesis Flood, 1961, Whitcomb & Morris

Perspectives on God's Two Books



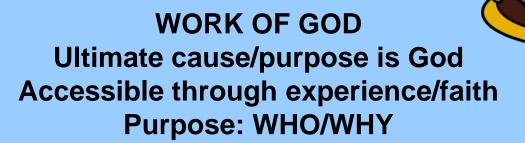
Liberal and Mainline Church

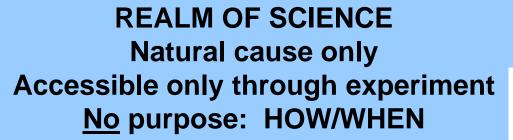
Atheists

- Total RandomNo direction
- •We are alone
- Science explains

Science only
Philosophical
Naturalism

Biblical Worldview for today







Flood Geology Errors

- 1. Confuse evolution with geology
- 2. Number of animals/plants represented in fossil record is far greater than today – we are zoologically impoverished?
- 3. Flood 'geologists' do not understand physical & chemical conditions of how rocks form & fold.
- 4. Later geologic discoveries show that flood geology was not possible.

Conclusions / Suggestions

- God's two books: Nature & Bible ought not contradict themselves.
- New information from Nature <u>should</u> cause a re-evaluation of Bible interpretation.
- We are all (YEC, OEC, EC) in the Kingdom of God.
 Our focus should be external, not in-fighting.
- Noah's flood may have been regional.
 (Rom.1:8 your faith is being reported all over the world.)