



God's Grand Design

Exploring Origins in Science and Scripture

Part 12

How did the mountains form?

Part 12 - How did the mountains form?

Part 13 - Did dinosaurs and people live together?

Part 14 - What caused the Ice Age?



Two Theories of Origins

**View #1 – God created the heavens and the earth.
(in six days, thousands of years ago)**

**View #2 – The heavens and earth evolved without
God. (millions and billions of years ago)**

Flood: There was a time when the entire world was covered with water as the result of a year-long Flood. This was a judgment from God on all human and land dwelling life. It resulted in the death of all humans (and animals) who were not in the Ark during the Flood (**Genesis 6-9**).

trc.life/flood

Genesis 1:9

And God said, "Let the waters under the heavens be gathered together into one place, and let the dry land appear." And it was so.

2 Peter 3:5-6

But they deliberately forget that long ago by God's word the heavens came into being and the earth was formed out of water and by water. 6 By these waters also the world of that time was deluged and destroyed.

Genesis 6:13

And God said to Noah, "I have determined to make an end of all flesh, for the earth is filled with violence through them. Behold, I will destroy them with the earth.

Genesis 7:11

In the six hundredth year of Noah's life, in the second month, on the seventeenth day of the month, on that day all the fountains of the great deep burst forth, and the windows of the heavens were opened.

Genesis 7:19

And the waters prevailed so mightily on the earth that all the high mountains under the whole heaven were covered.

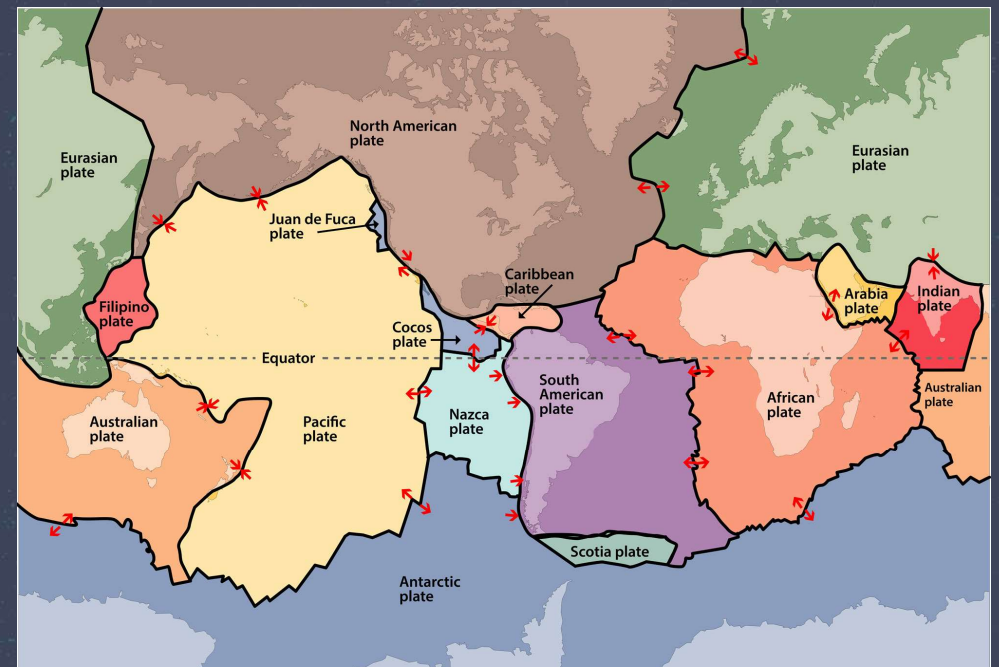
Genesis 8:2-3

The fountains of the deep and the windows of the heavens were closed, the rain from the heavens was restrained. 3 and the waters receded from the earth continually. At the end of 150 days the waters had abated.

Psalm 104:6-9

You covered [the earth] with the deep as with a garment; the waters stood above the mountains. 7 At your rebuke they fled; at the sound of your thunder they took to flight. 8 The mountains rose, the valleys sank down to the place that you appointed for them. 9 You set a boundary that they may not pass, so that they might not again cover the earth.

Plate tectonics:
a scientific theory that
explains how major
landforms are created as
a result of Earth's
subterranean
(underground)
movements.



Antonio Snider Pellegrini

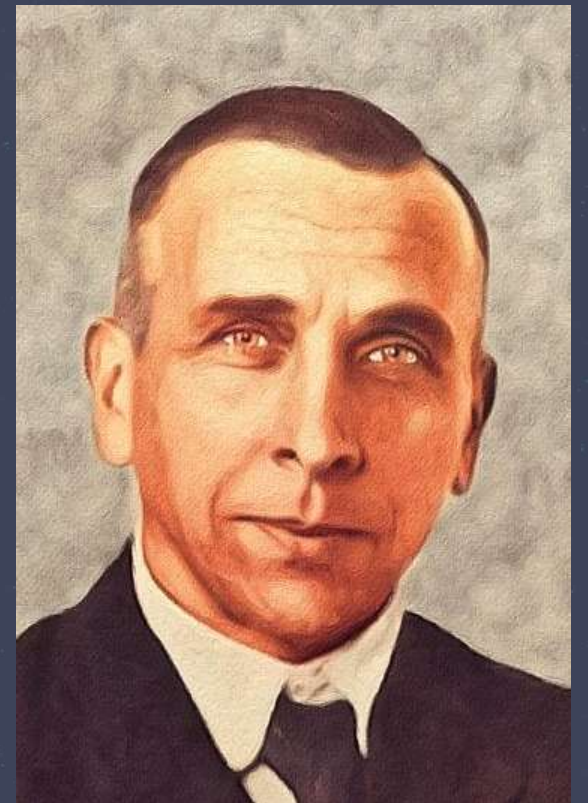
The Creation and its Mysteries Unveiled
1858



— Antonio Snider Pellegrini

Alfred Wegener

The Origin of Continents and Oceans, 1912

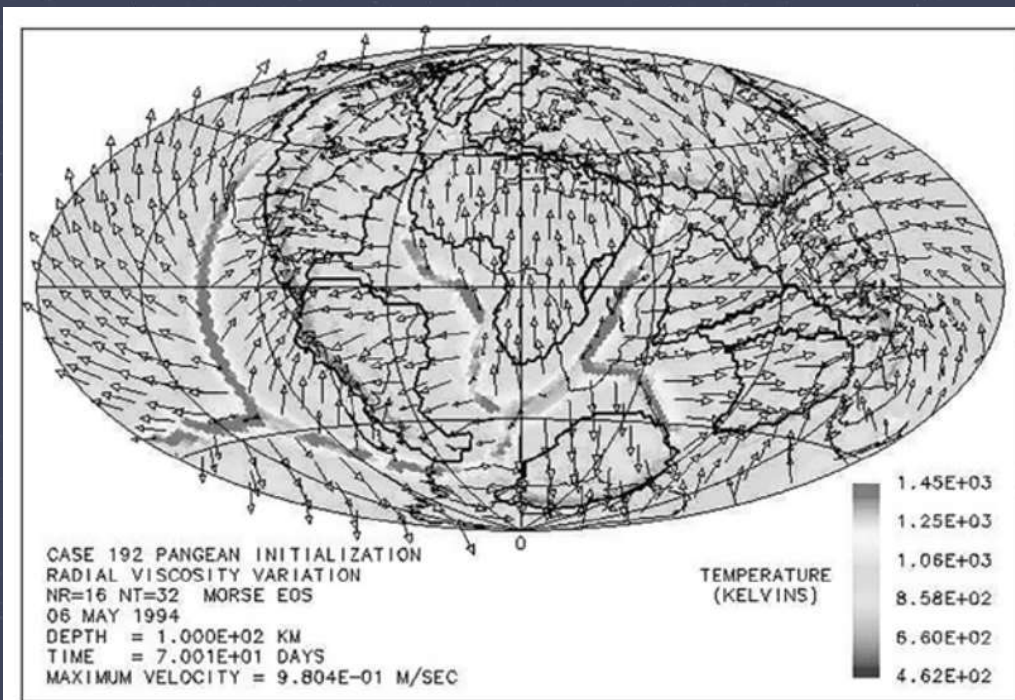


The US Navy mapped the ocean floor during World War 2.

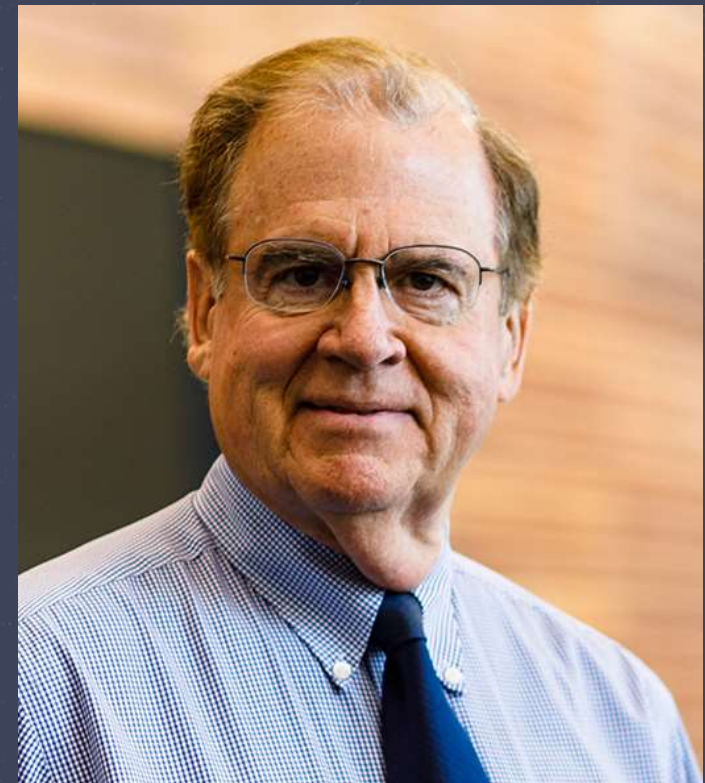


Dr. John Baumgardner

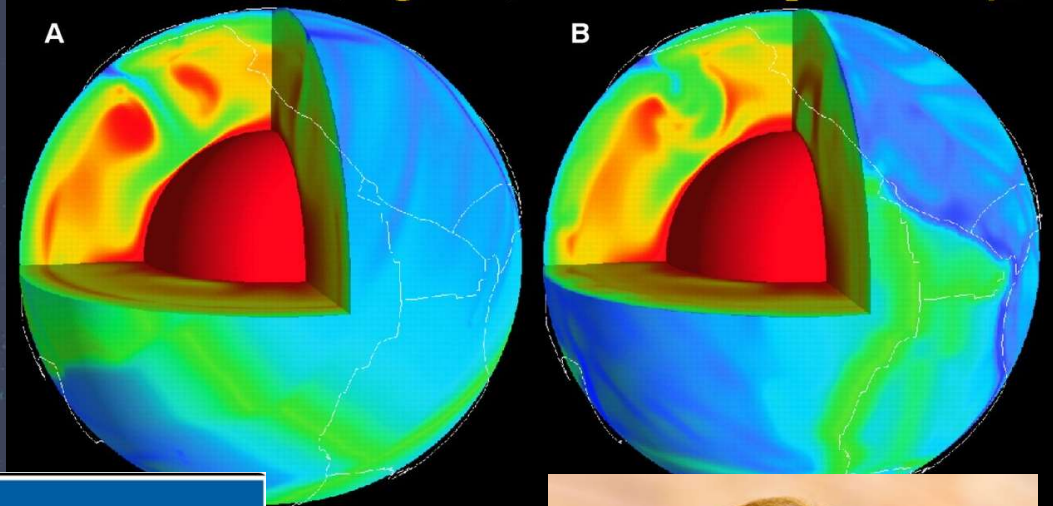
Catastrophic Plate Tectonics model.



One of Baumgardner's computer images showing plate movement



Dr. John Baumgardner
TERRA Model



U.S. News & WORLD REPORT

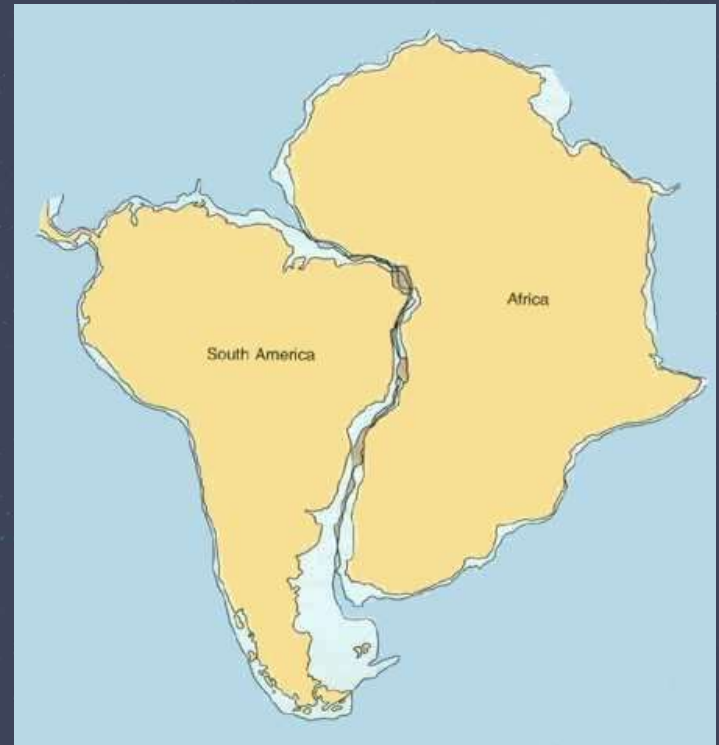
The geophysics of God

A scientist embraces plate tectonics—and Noah's flood

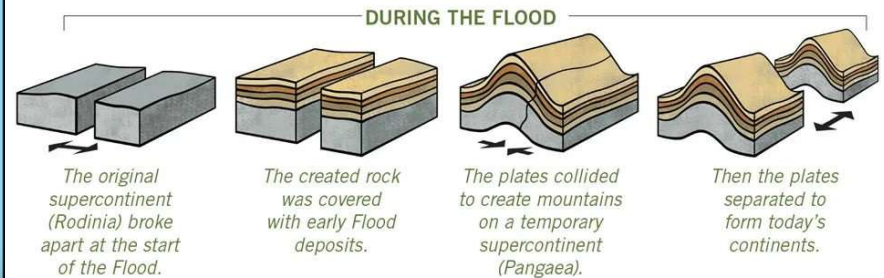
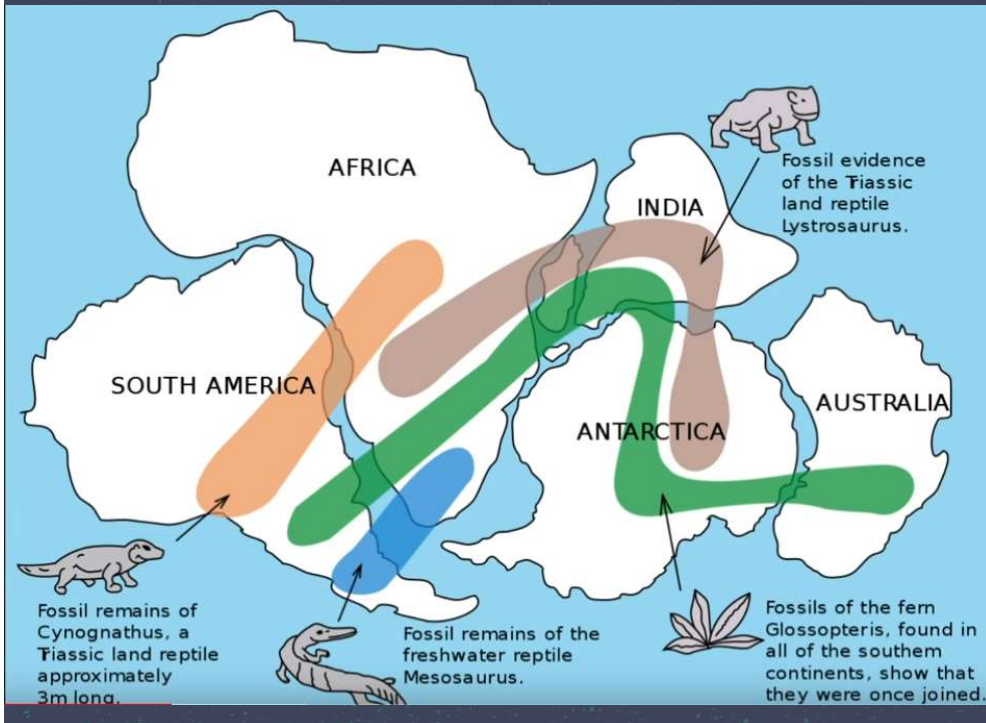
"THE WORLD'S PRE-EMINENT EXPERT IN THE DESIGN OF COMPUTER MODELS FOR GEOPHYSICAL CONVECTION."



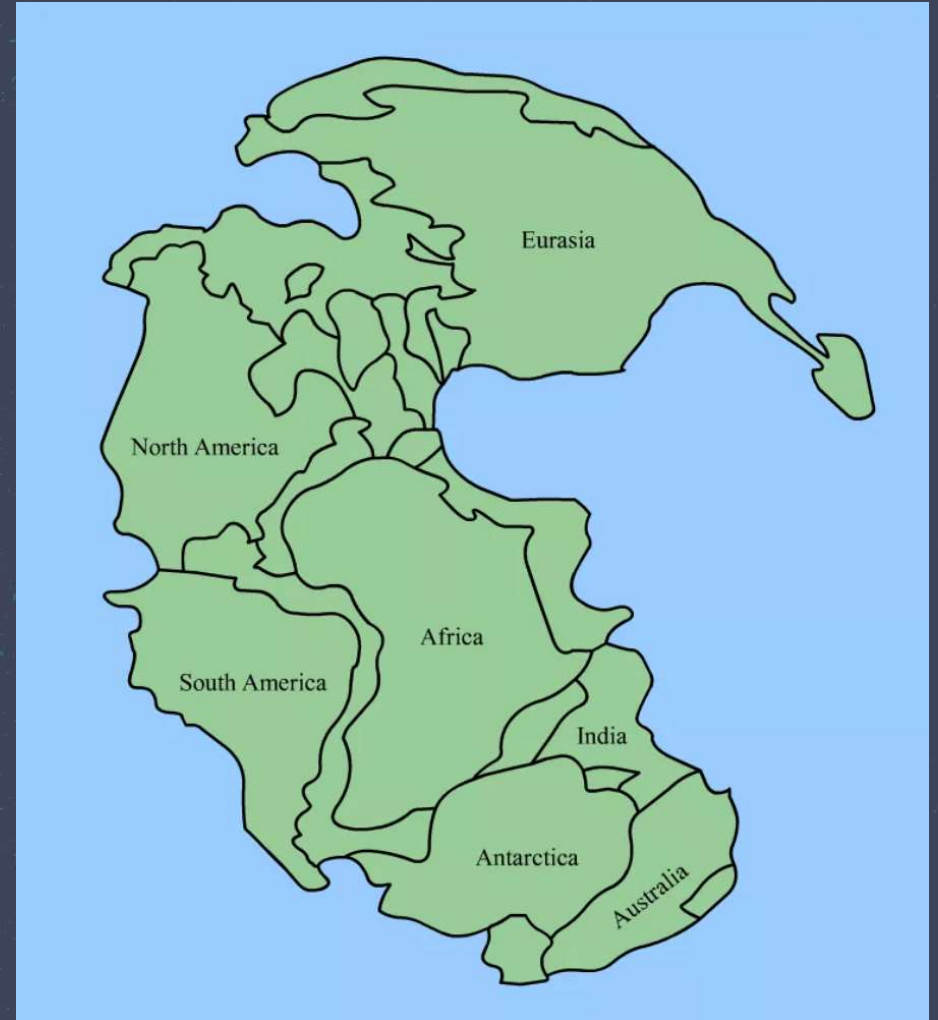
A. "Fit" of the Continents



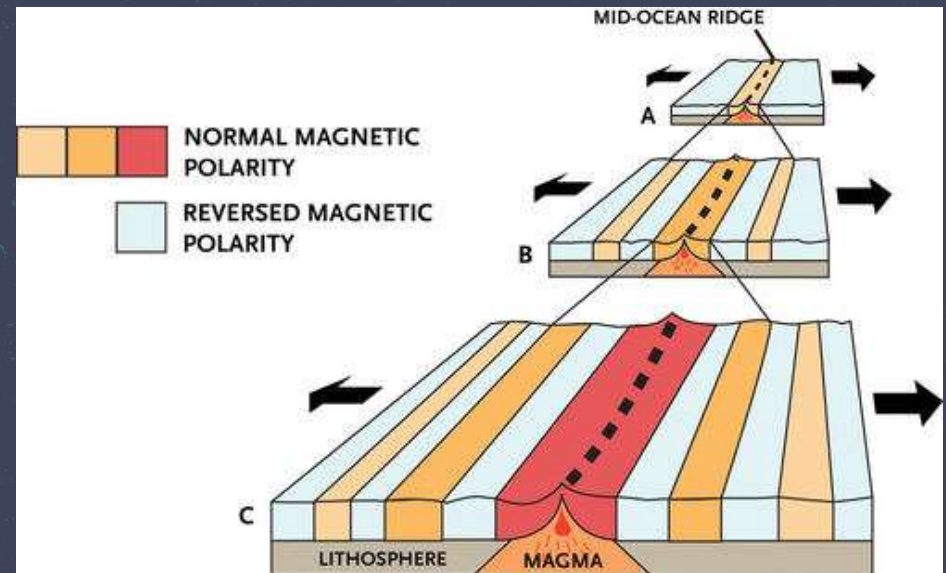
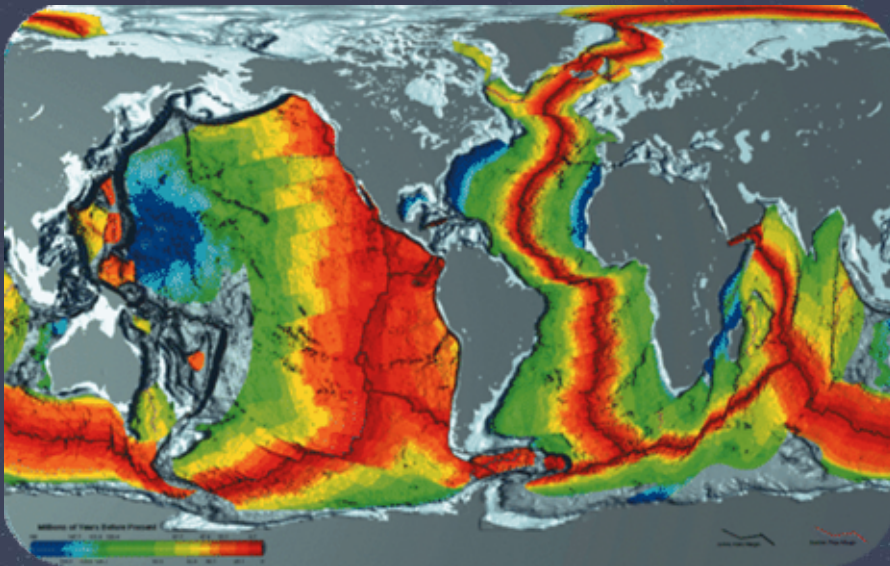
B. Correlation of fossils and mountain ranges across oceans



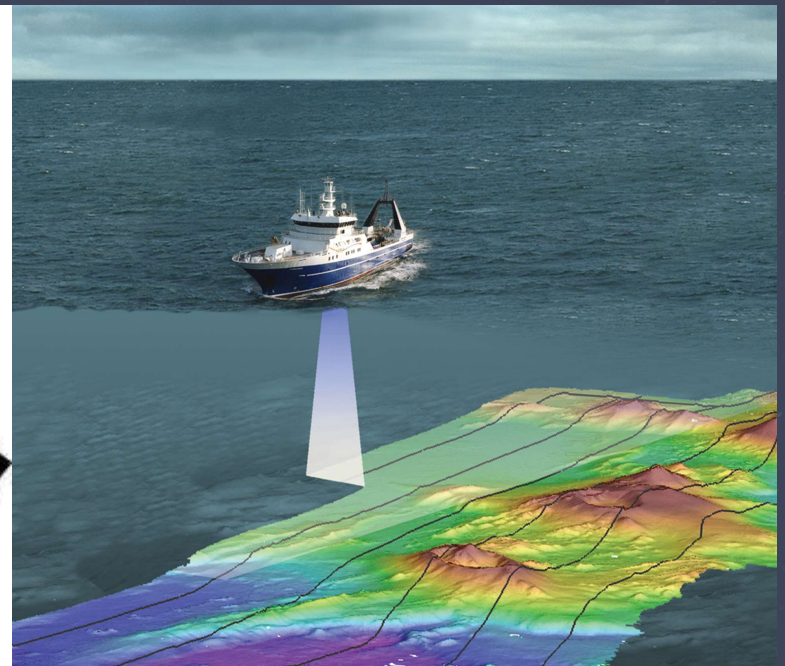
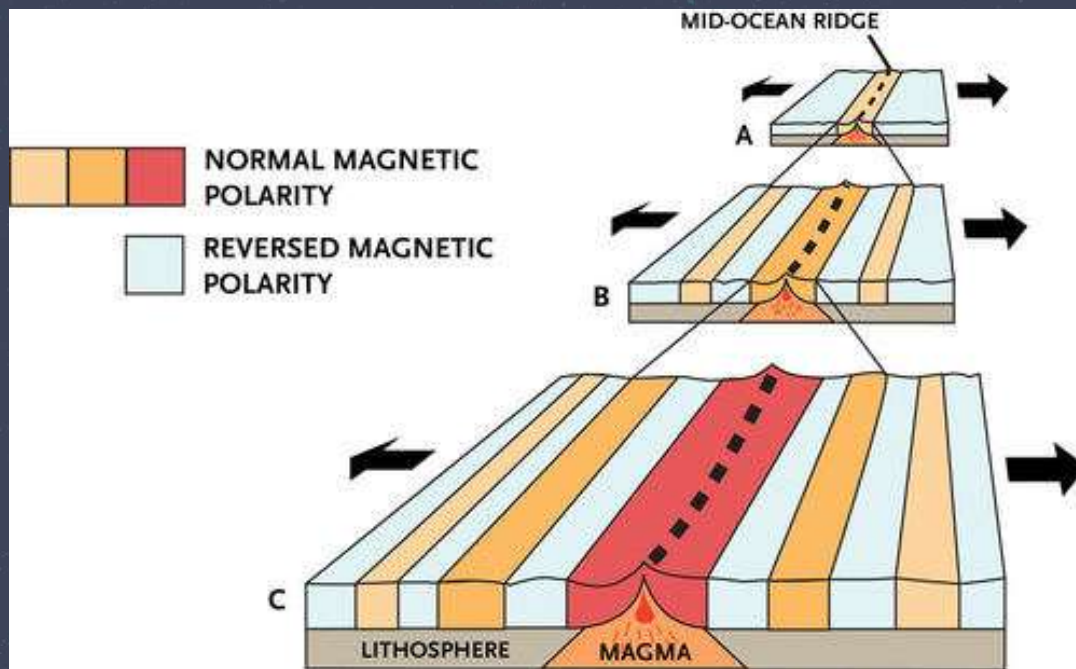
The original super continent, "Pangea"



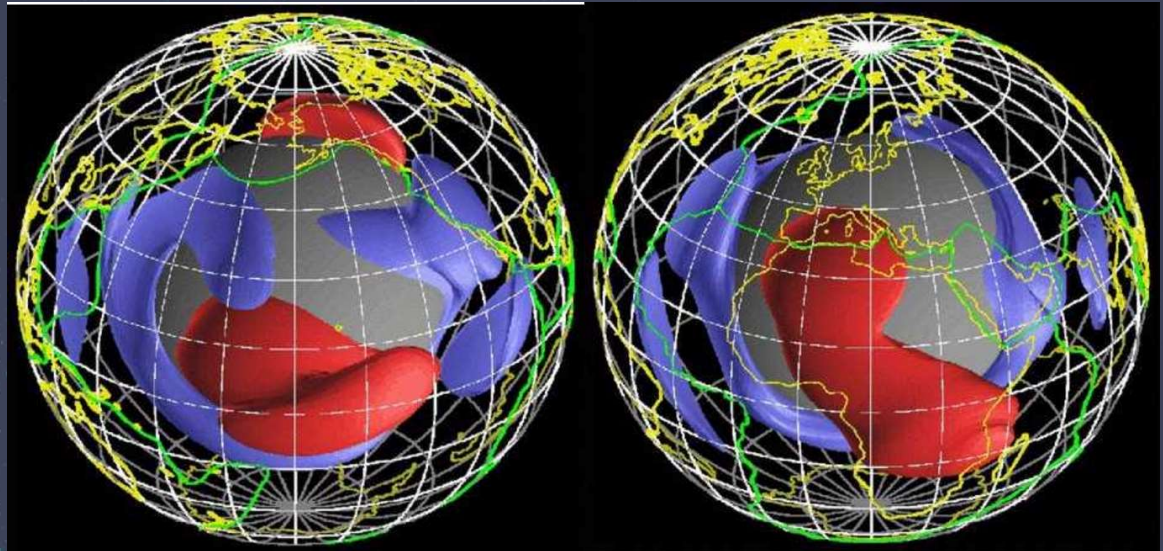
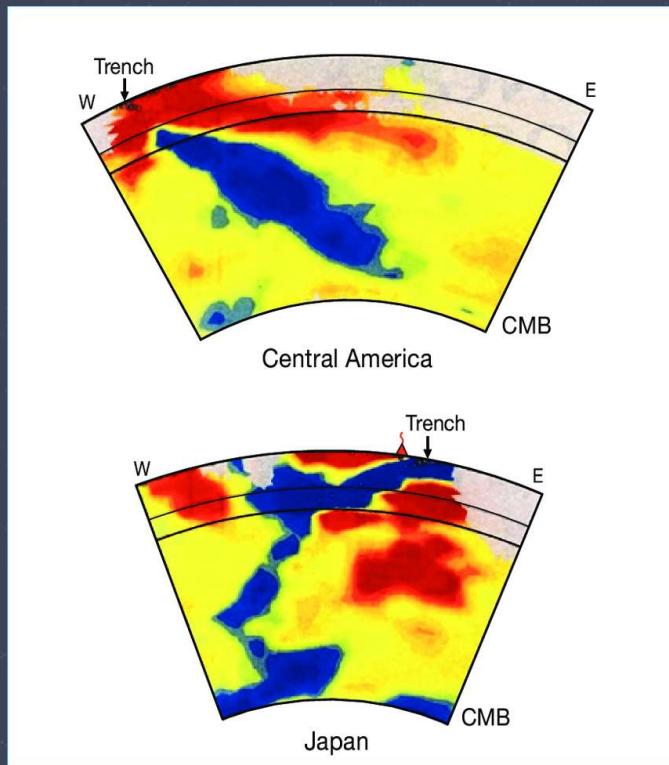
C. A striped pattern of magnetic reversals parallel to mid-ocean floor ridges.



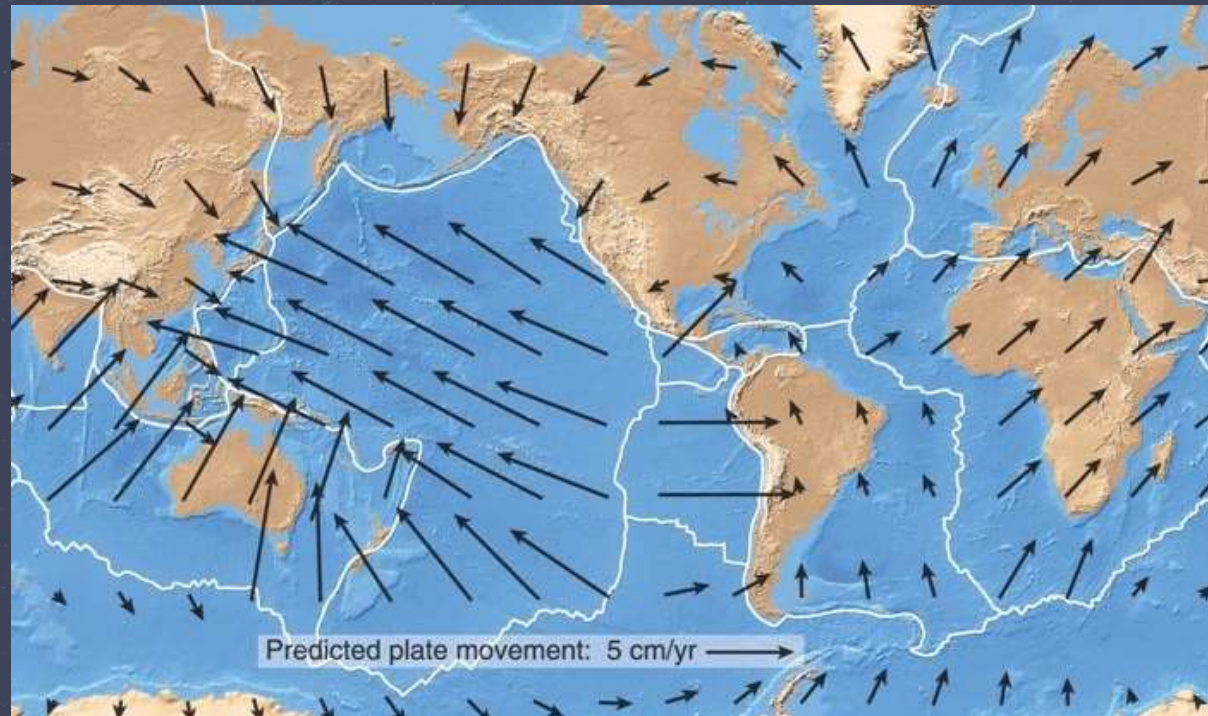
C. A striped pattern of magnetic reversals parallel to mid-ocean floor ridges.



D. Seismic observations of slabs of former ocean floor now located deep inside the earth.



E. Continental movement tracked by GPS (inches per year)



Evidence that supports continental movements

- A. The fit of the continents.**
- B. Correlation of fossils and mountain ranges across oceans.**
- C. A striped pattern of magnetic reversals parallel to mid-ocean floor ridges.**
- D. Seismic observations of slabs of former ocean floor now located deep inside the earth.**
- E. Continental movement tracked by GPS**

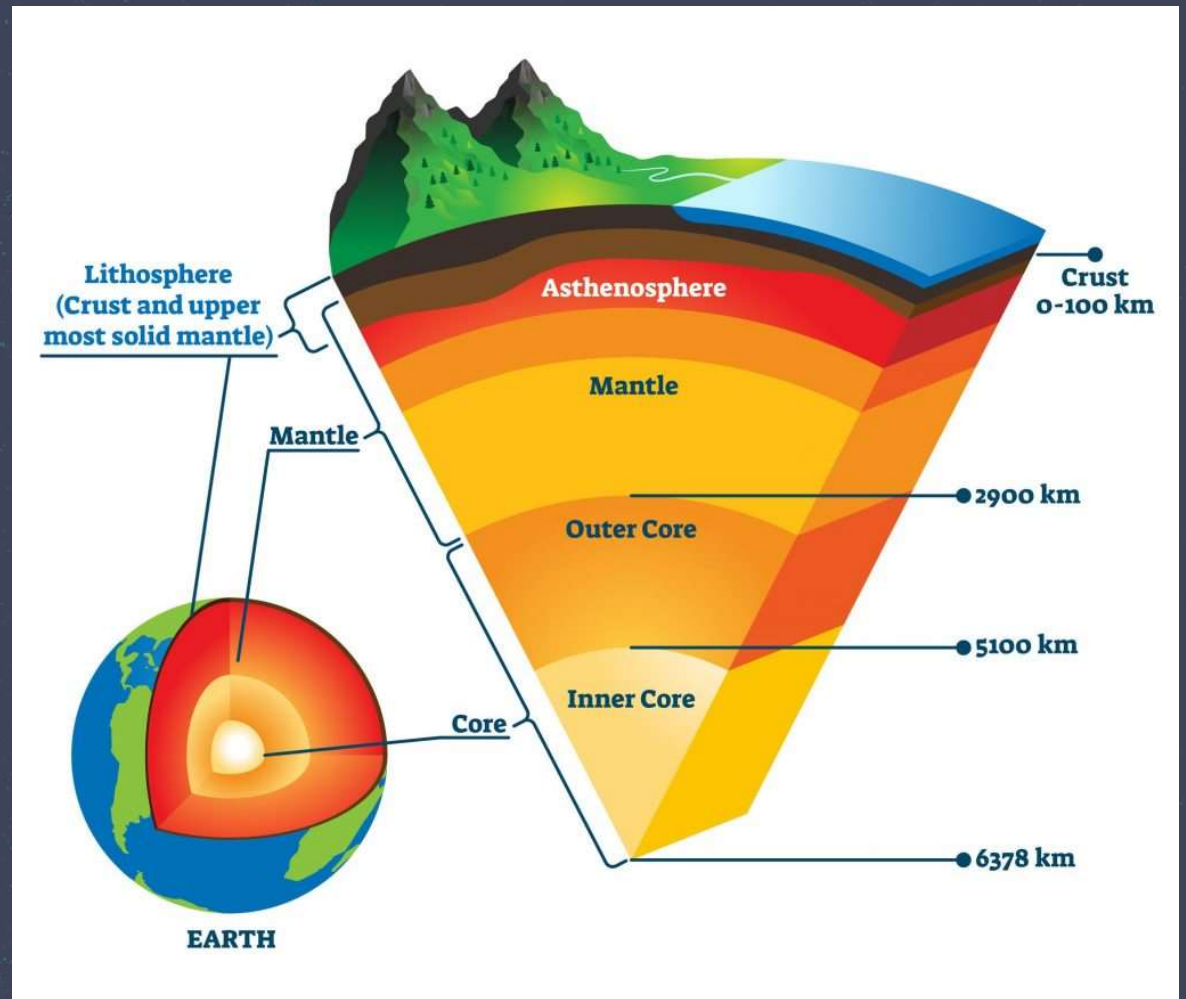
Russian Kola
Superdeep
Borehole
7.6 miles deep



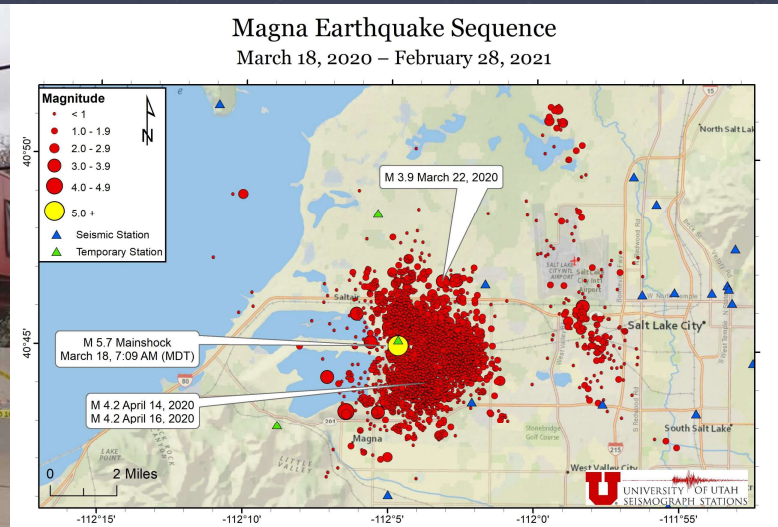
Earth's Radius:
3,958.8 miles

Deepest boring:
7.6 miles deep

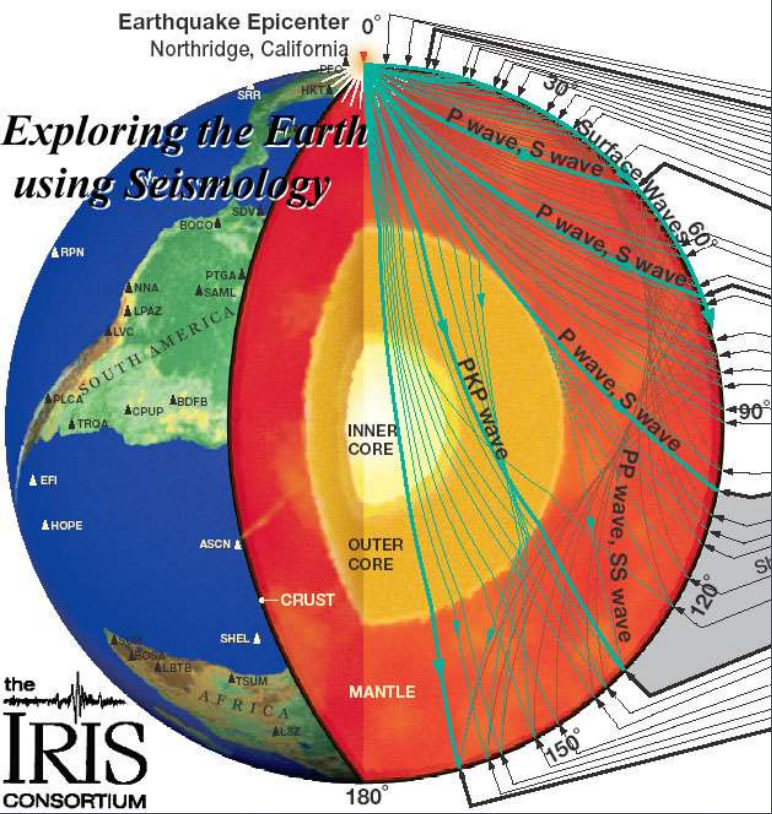
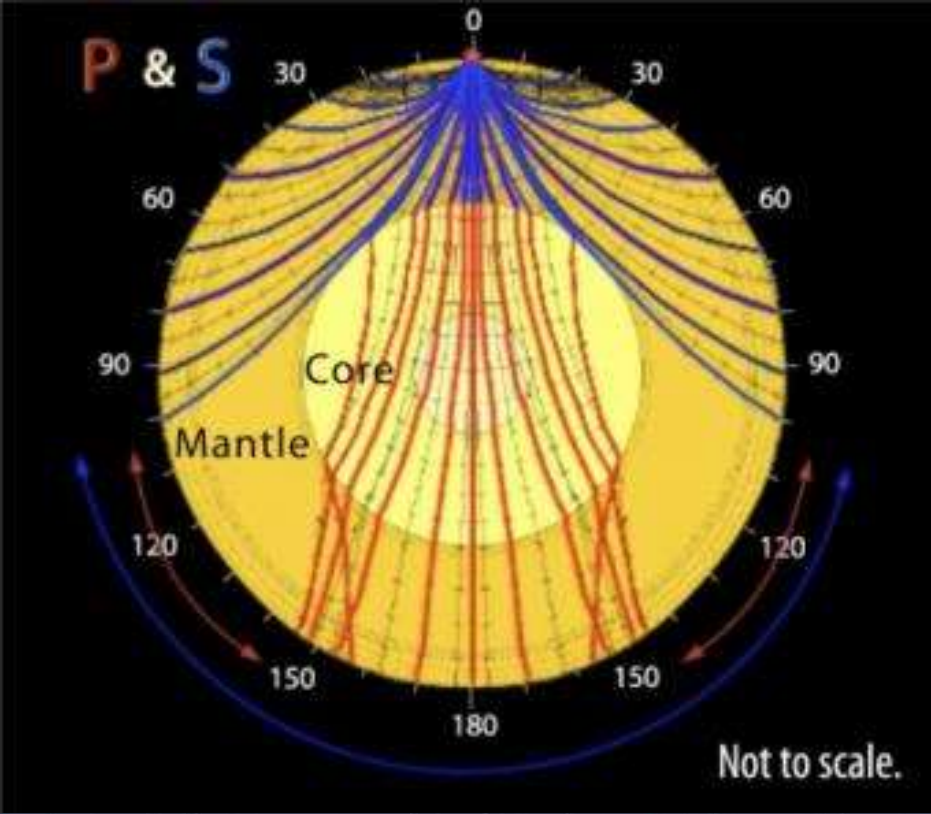
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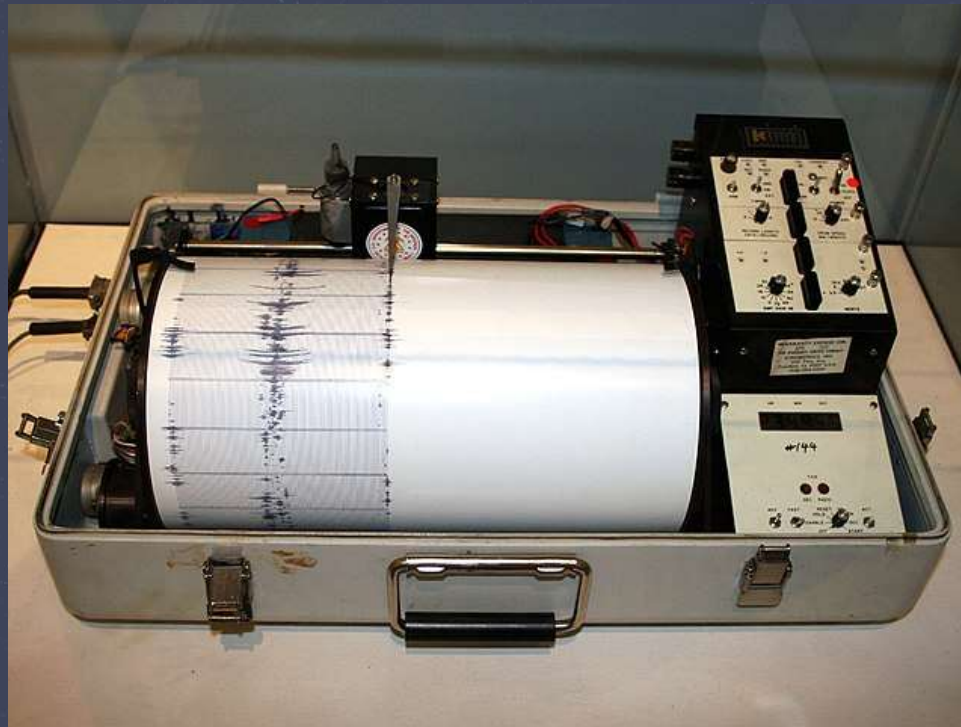
March, 2020 – Magna, Utah Earthquake



Earthquake releases energy waves



Earthquake measured with seismographs



Use energy waves to build a model.



Earth cross section

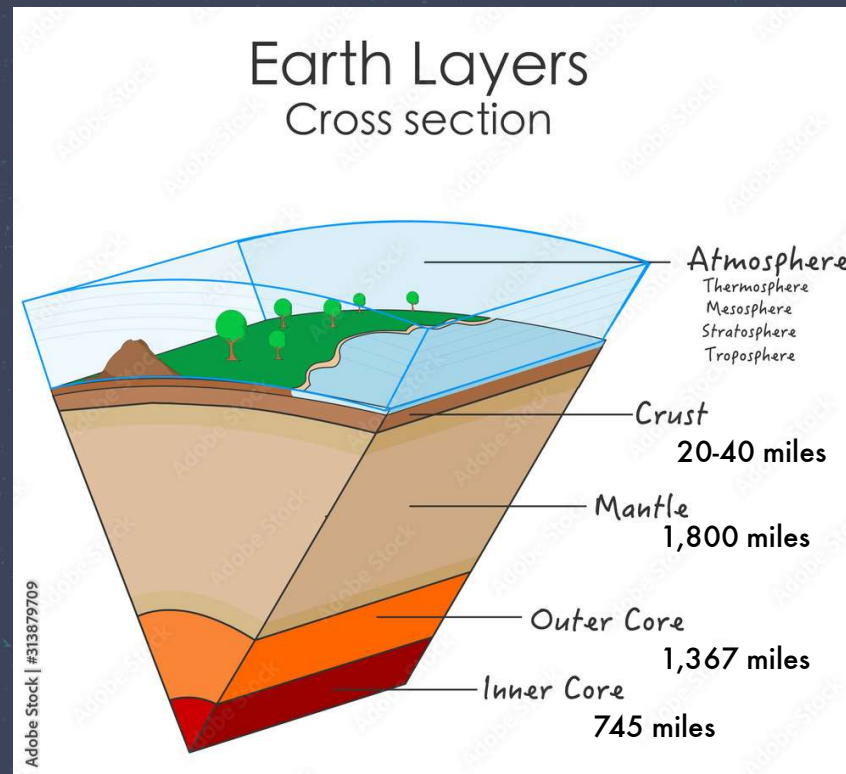
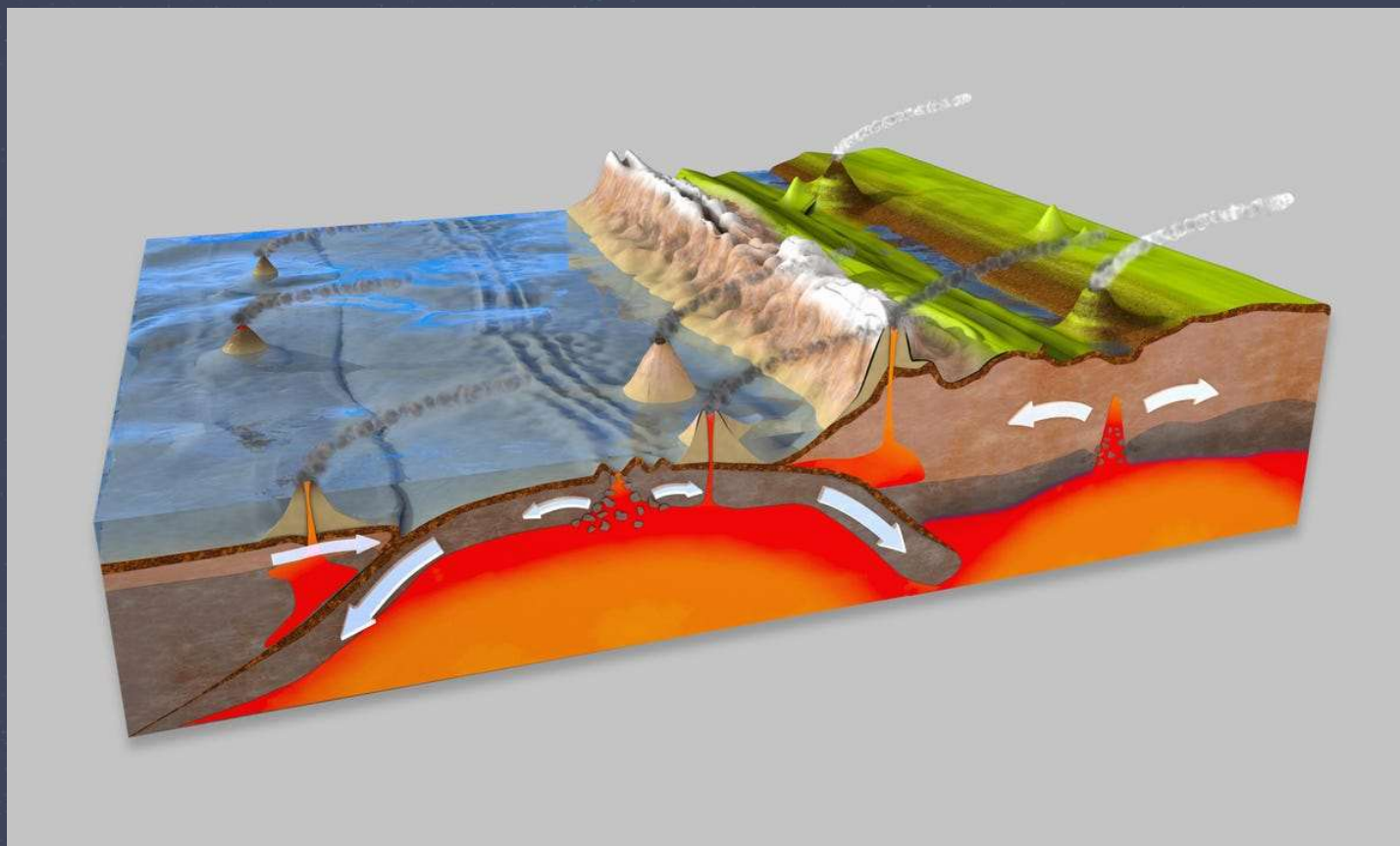
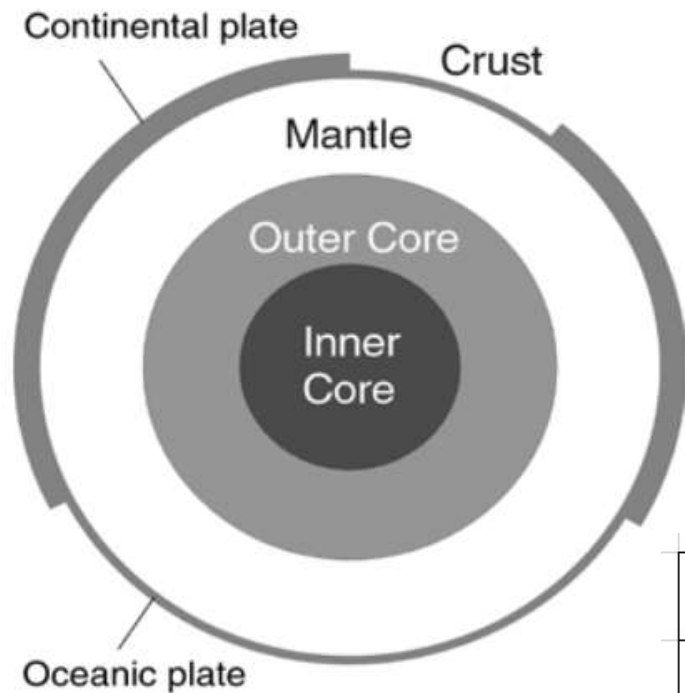


Plate tectonics overview





Earth's current structure (not to scale).

	Ocean Floor	Continents
Thickness	3-5 miles	20-40 miles
Composition	Basalt	Granite
Density	3.3 g/cm ³	2.7 g/cm ³
Elevation	16,000 ft. deep	2,000 ft high

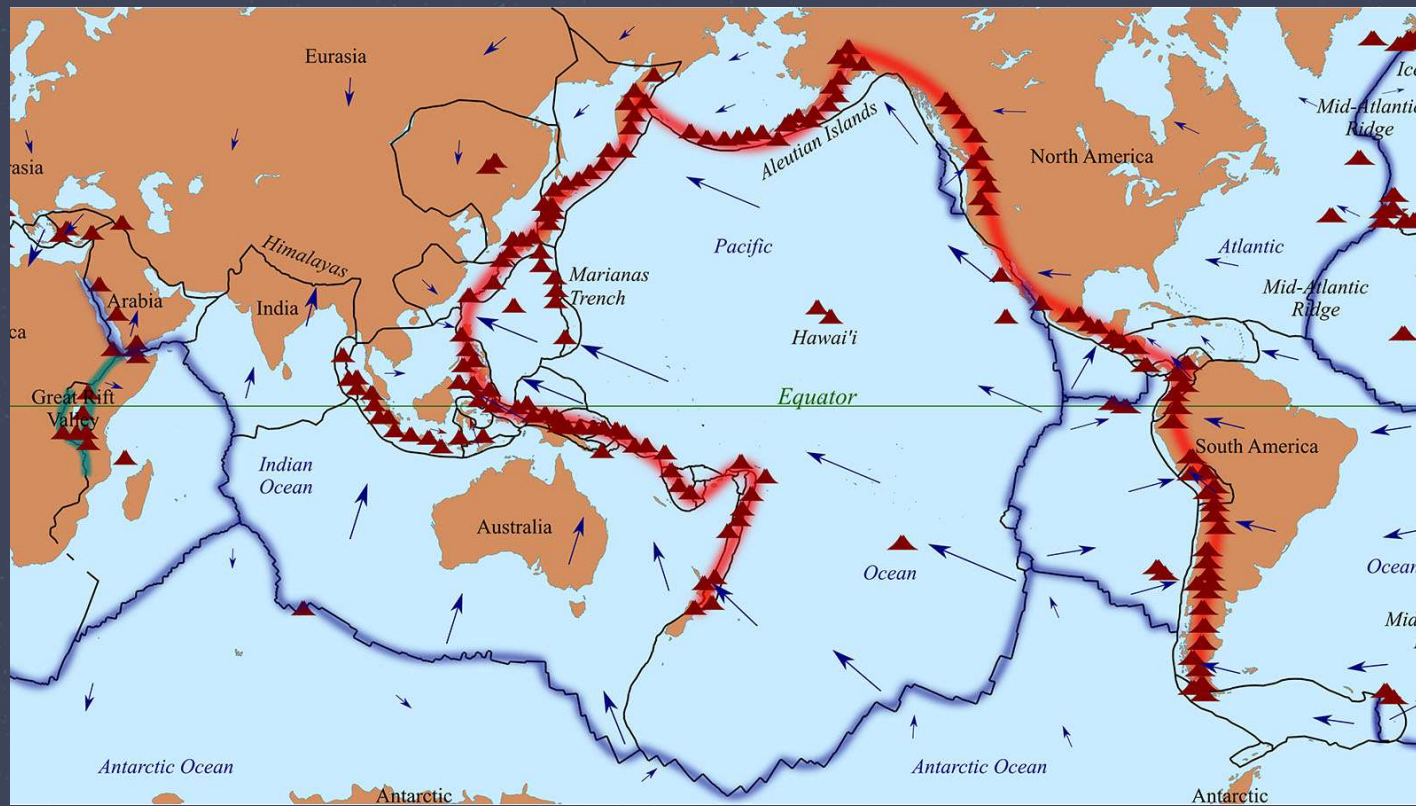
Seven Major Continental Plates



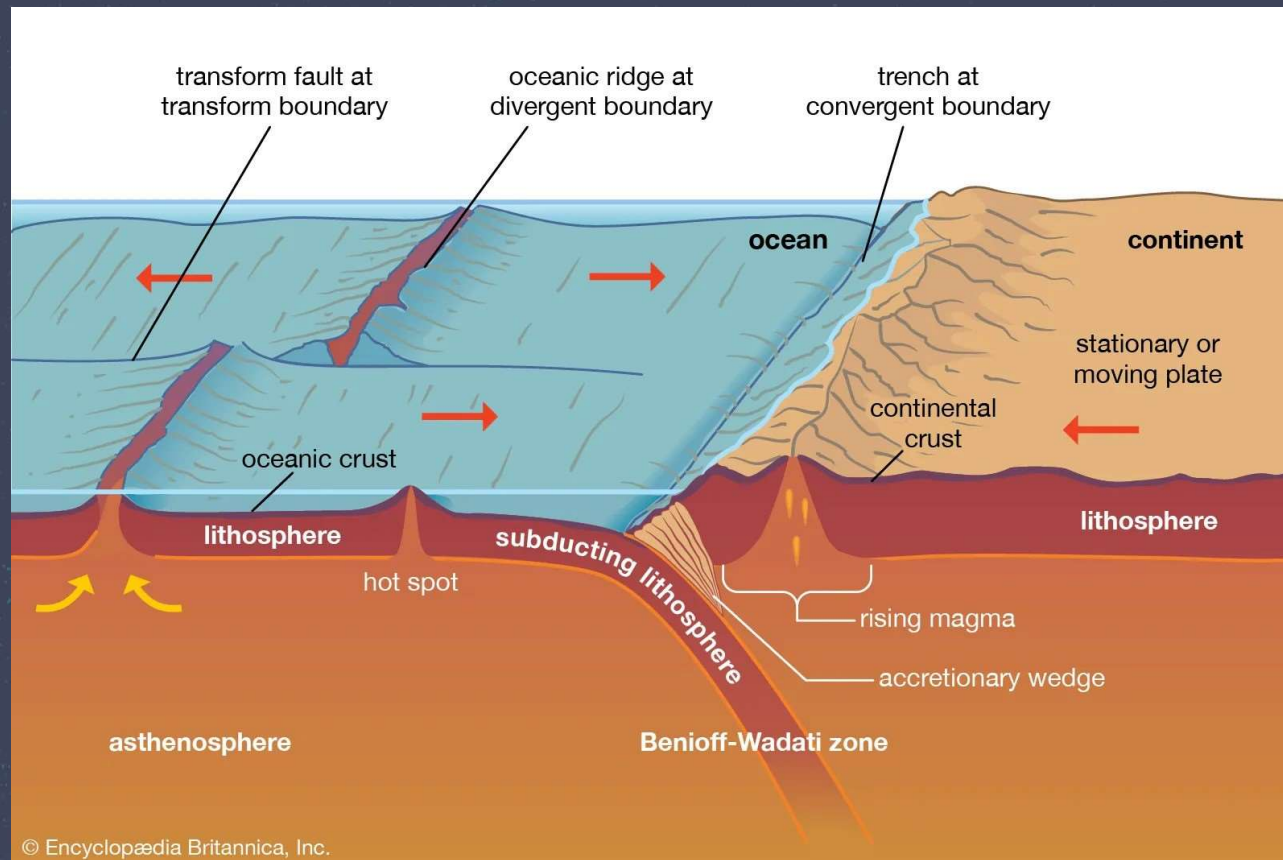
Earth with empty oceans



"Ring of Fire"

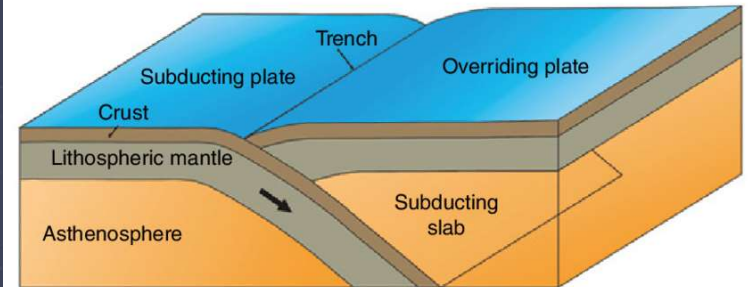


Plates grinding past each other

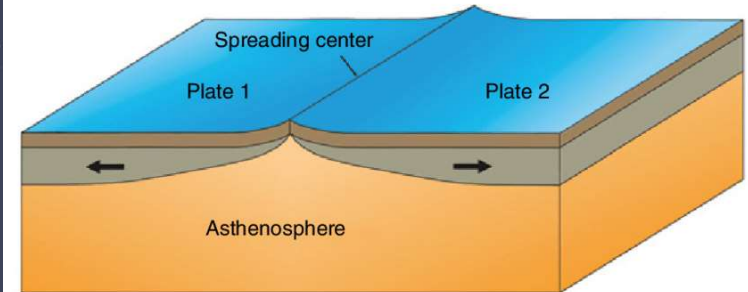


Types of plate boundaries

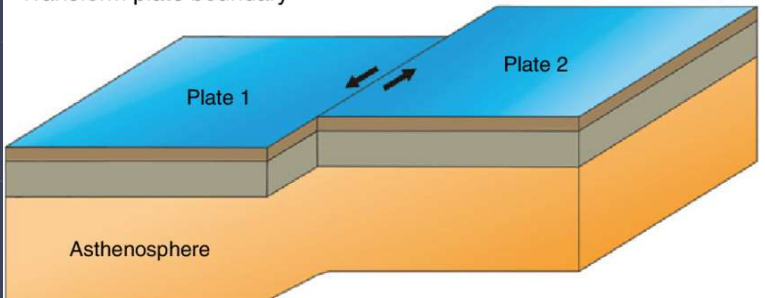
Convergent plate boundary: subduction zone



Divergent plate boundary



Transform plate boundary



Convection: the motion in a gas or liquid in which warmer portions rise and colder portions sink.

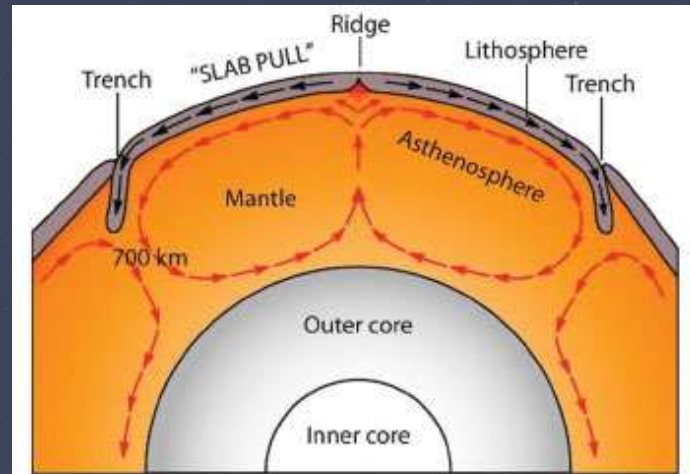
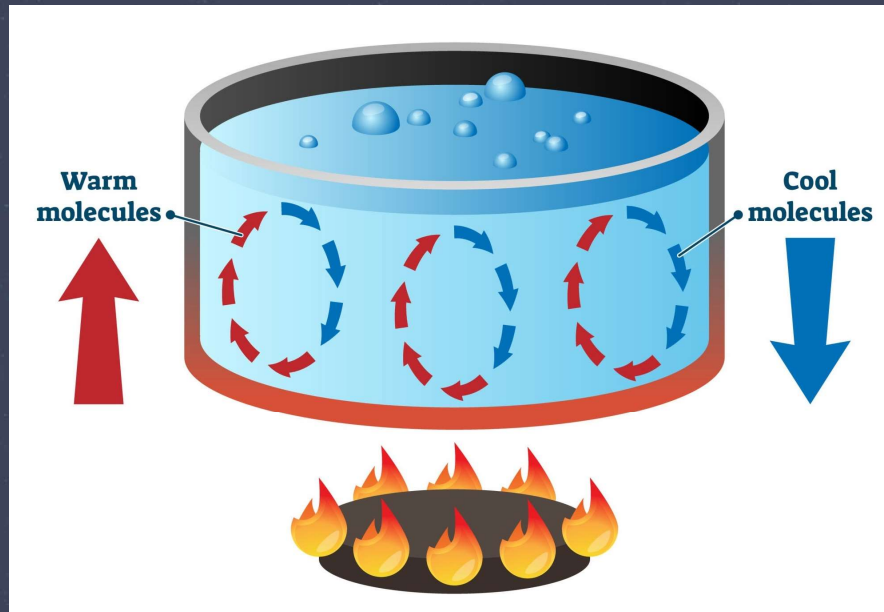


Figure 1. Diagram showing the earth's interior as well as a mid-ocean ridge and two subducting slabs.

Image credit: U.S. Geological Survey.

https://www.youtube.com/watch?v=QCKi8Dw4wAU&t=3s&ab_channel=GenesisApologetics

0:00-2:00

Important Questions for Old Earth Community?

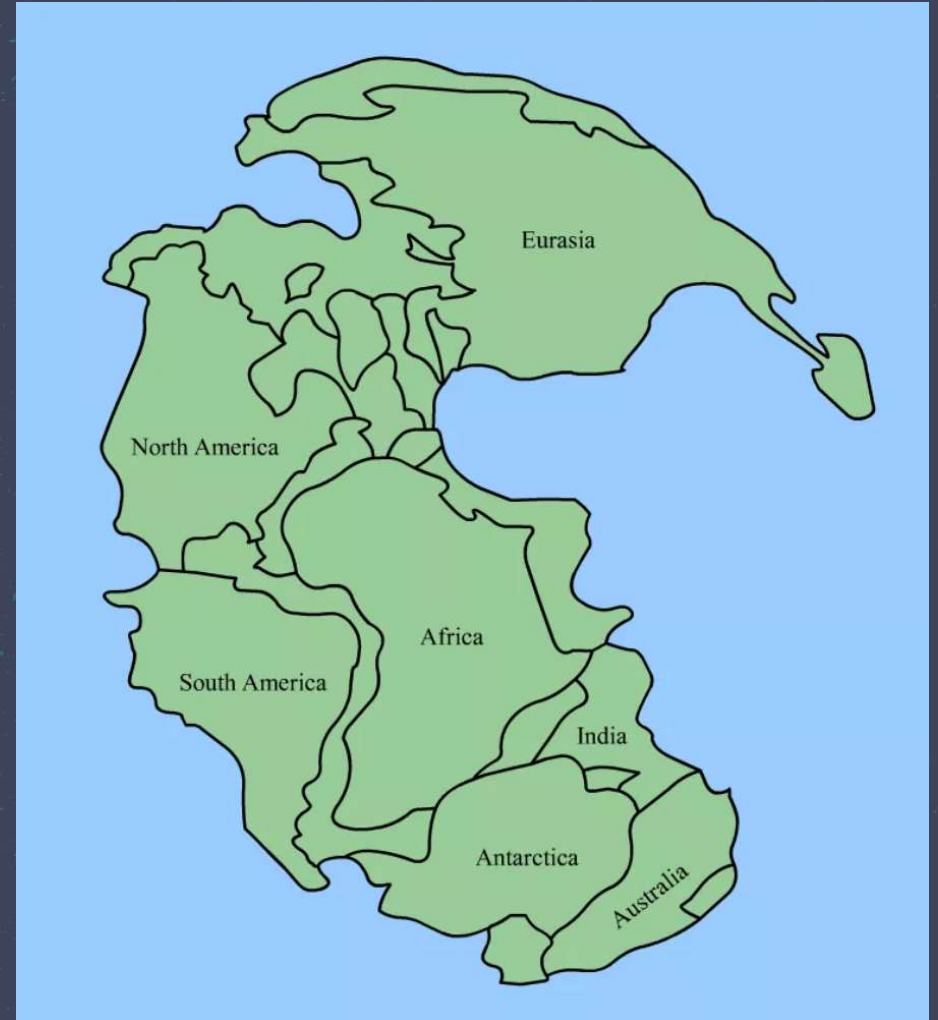
Why would plates form in the first place?

Why is the earth the only planet with moving plates?

Why are the oceans floors and continents different?

Why did they start moving in the first place?

1. God creates an original super continent.



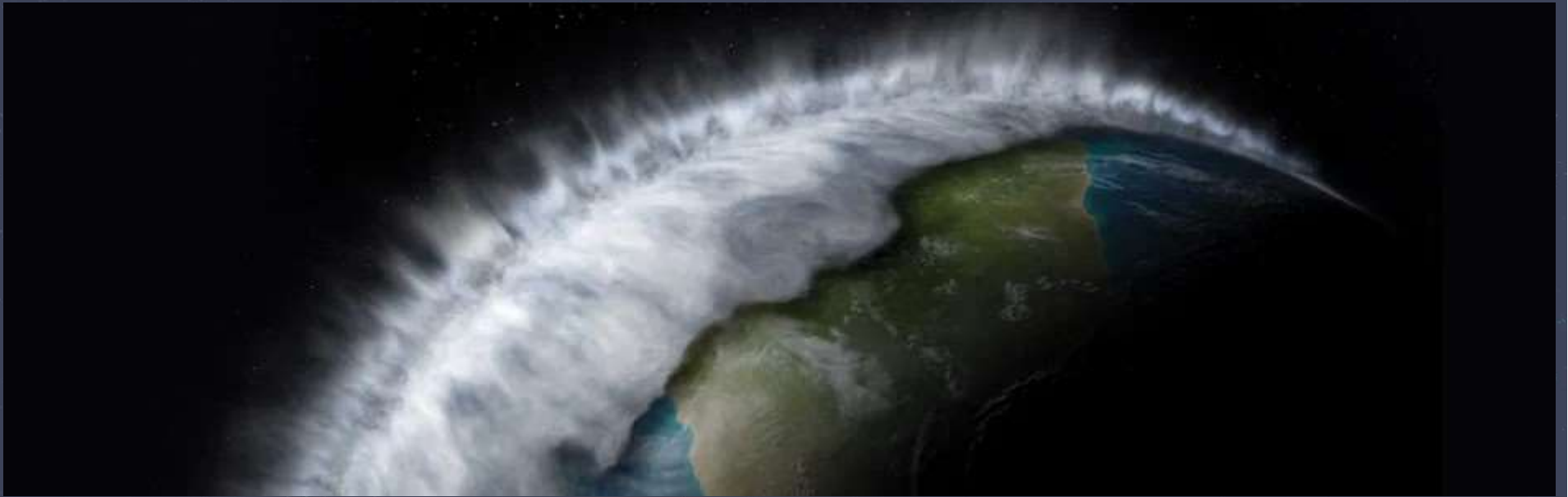
2. The mid oceanic ridges rip apart.



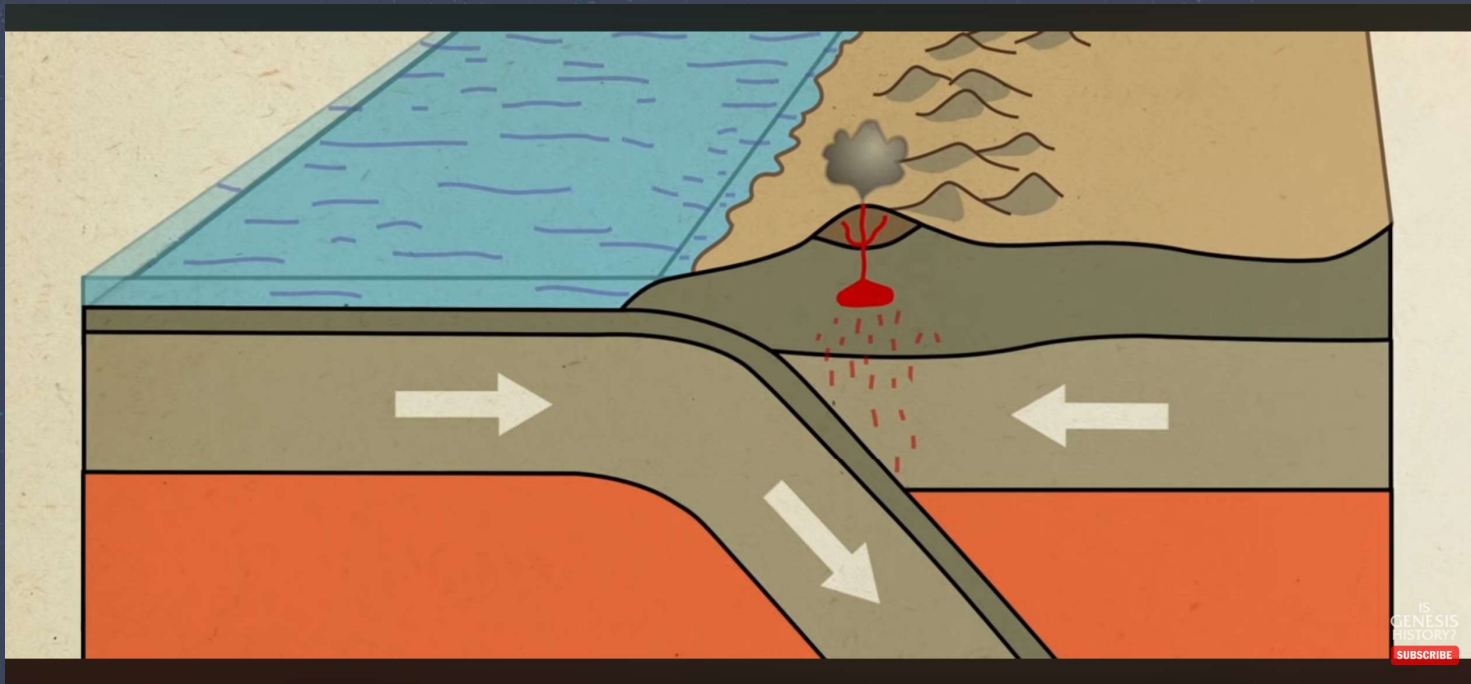
https://www.youtube.com/watch?v=upxdopmXsBE&t=2s&ab_channel=JustIcelandic

0:00-0:46

3. Forty days of rain.



4. New hot ocean floor forming and driving the water up onto continents.



5. The ocean floor cools and sinks and the waters drain off the continents.



Catastrophic Plate Tectonics Model



Answers in Depth, Vol. 5 (2010)

www.answersingenesis.org/doc/articles/aid/v5/catastrophic_plate_tectonics.pdf



Catastrophic Plate Tectonics: A Global Flood Model of Earth History

Steven A. Austin, Ph.D., Institute for Creation Research, now an independent researcher.

John R. Baumgardner, Ph.D., Los Alamos National Laboratory, now an independent researcher.

D. Russell Humphreys, Ph.D., Sandia National Laboratories, now an independent researcher.

Andrew A. Snelling, Ph.D., Creation Science Foundation, now with Answers in Genesis (USA).

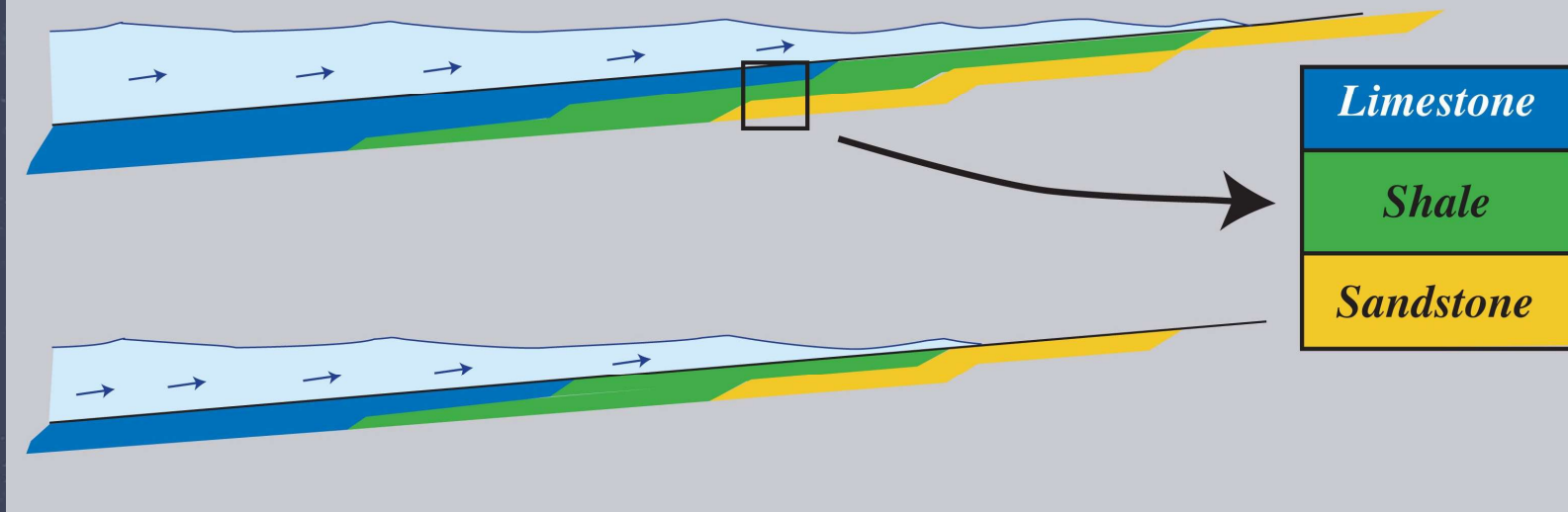
Larry Vardiman, Ph.D., Institute for Creation Research.

Kurt P. Wise, Ph.D., Bryan College, now at Truett-McConnell College.

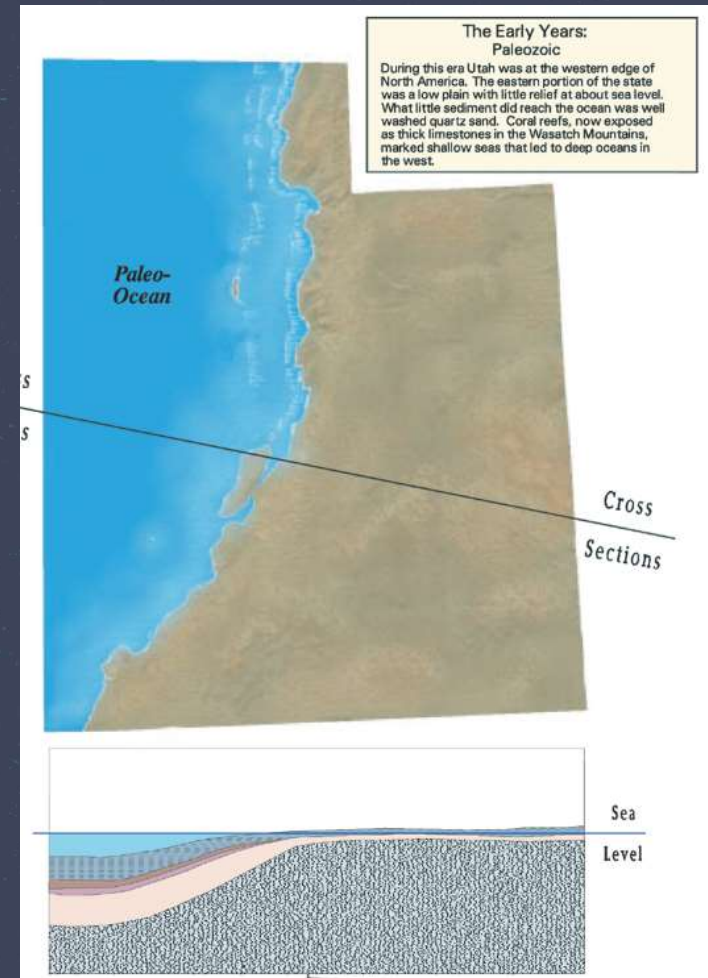


8-17? Major Marine Transgressions (or times the ocean went over the continents)

Marine Transgression



8-17? Marine Transgressions



https://www.youtube.com/watch?v=-uEYlpPws3zM&ab_channel=GenesisApologetics

9:51 – 10:51

https://www.youtube.com/watch?v=-4Fw6Js8z5xM&t=220s&ab_channel=IsGenesisHistory%3F

0:31-3:44

Continental Drift / Continental Sprint

inches per year / miles per hour
slow and gradual / rapid and catastrophic
millions of years / year long global flood

What evidences do we see?

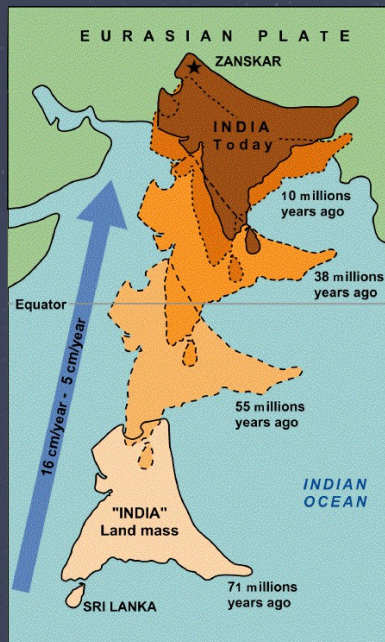
Evidence for catastrophic processes:

1. Low Angle Mountain Detachment
“sliding mountains”
Heart Mountain, Wyoming



Evidence for catastrophic processes:

2. High Mountains Himalayas



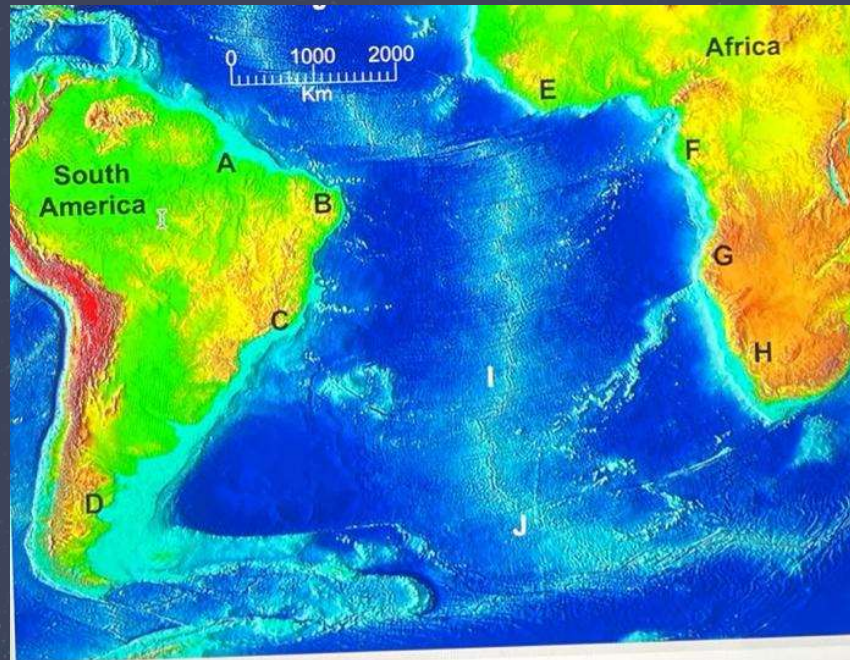
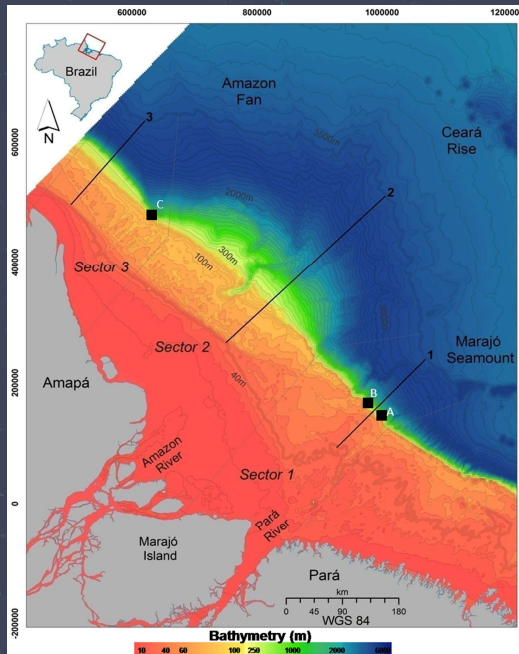
Evidence for catastrophic processes:

3. Liquefaction features
Mega-seismites



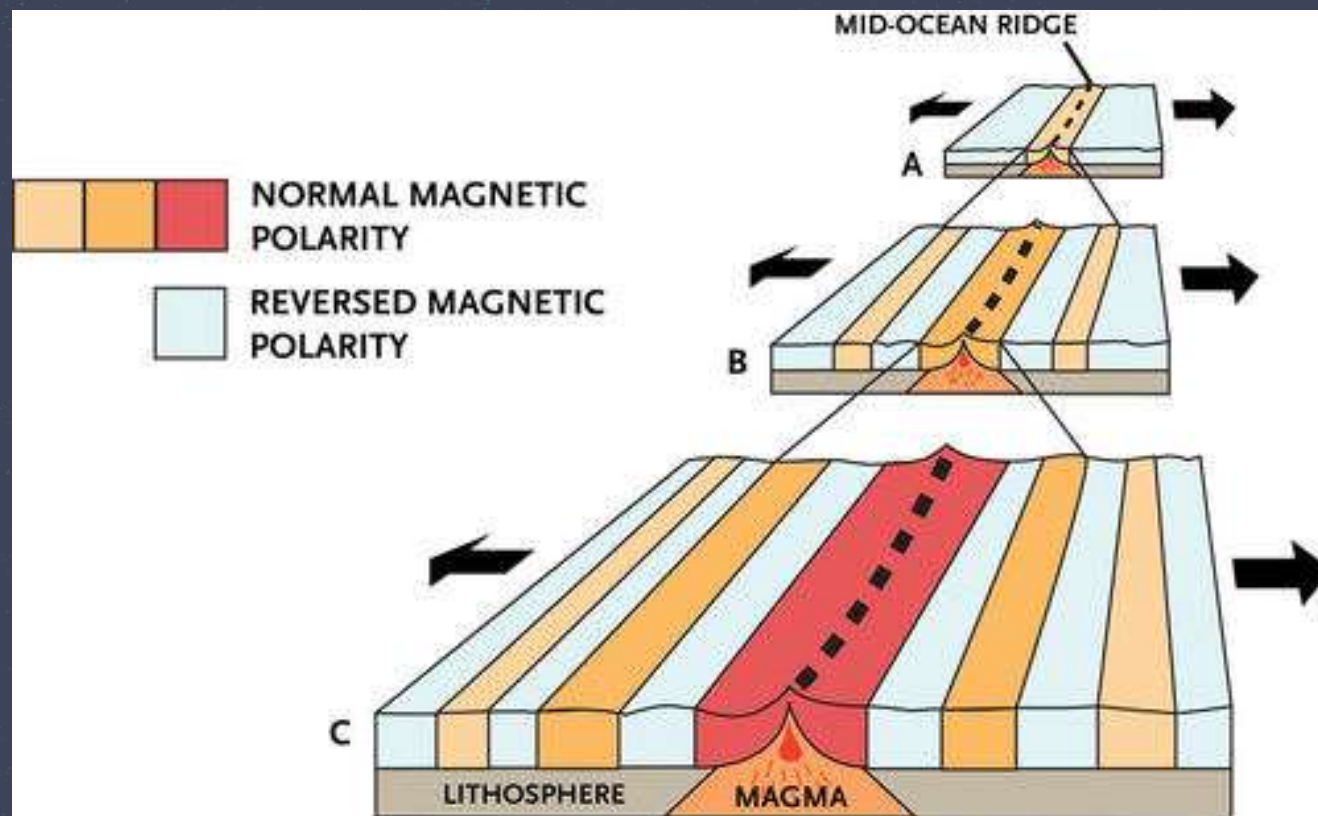
Evidence for catastrophic processes:

4. River Deltas in the ocean Amazon River



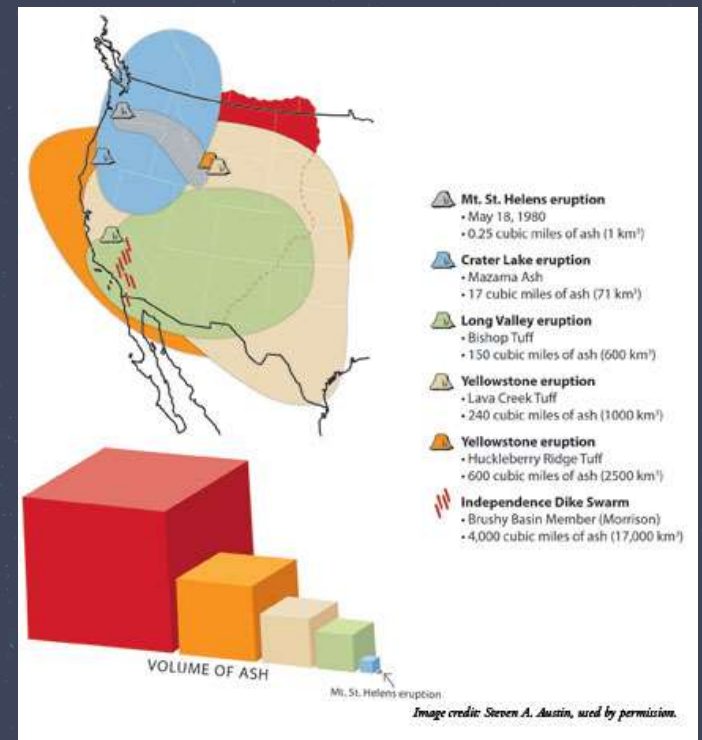
Evidence for catastrophic processes:

5. Mid-Ocean Ridge Magnetic Patterns



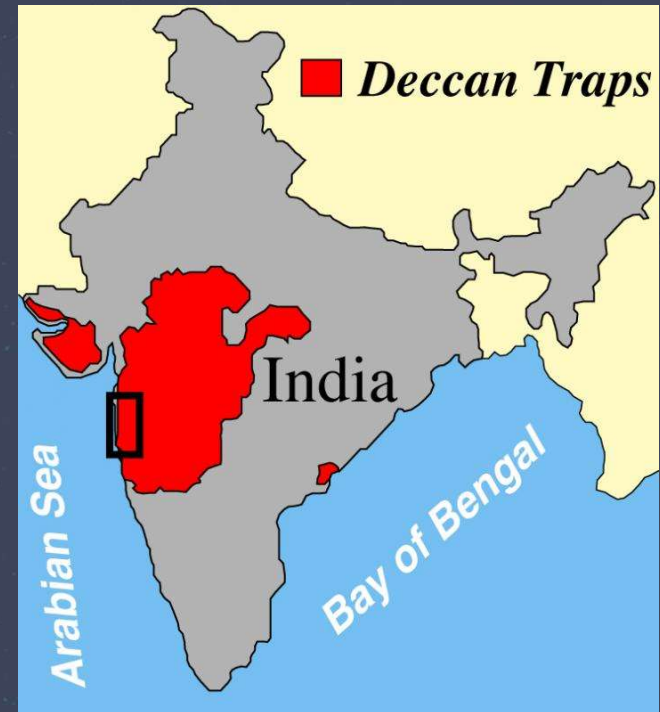
Evidence for catastrophic processes:

6. Previous Volcanic Ash Yellowstone and others



Evidence for catastrophic processes:

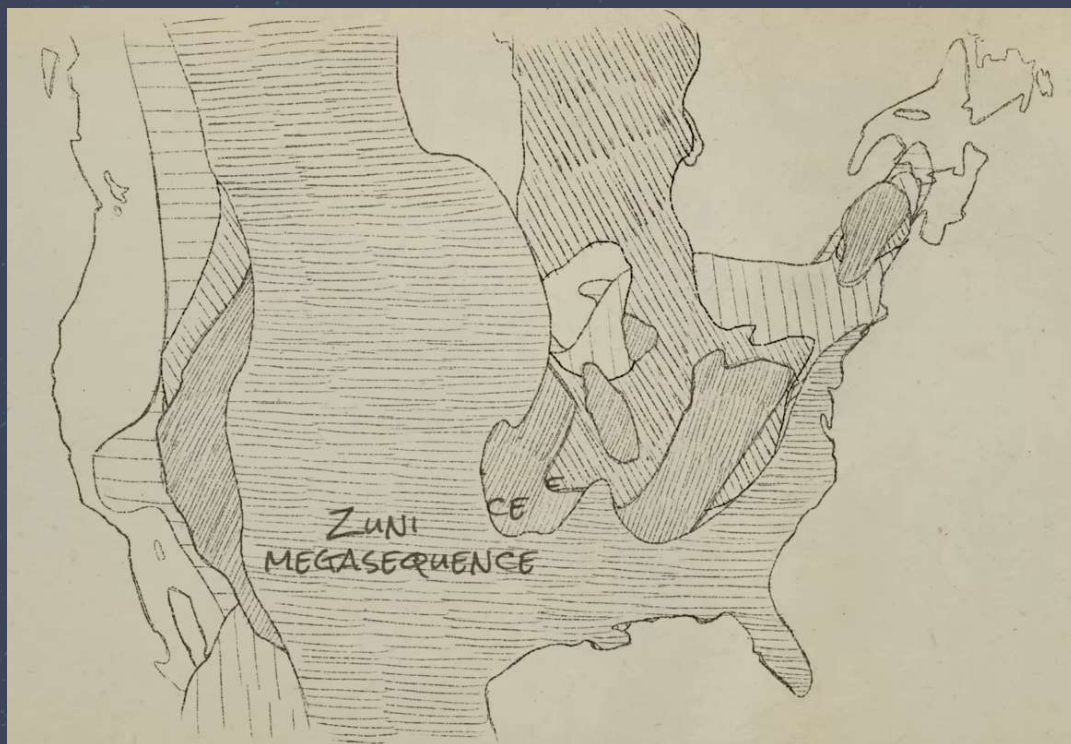
**7. Previous Lava Flow
Deccan Traps, India**



Evidence for catastrophic processes:

8. Shock waves shattering hard sediment.

United States

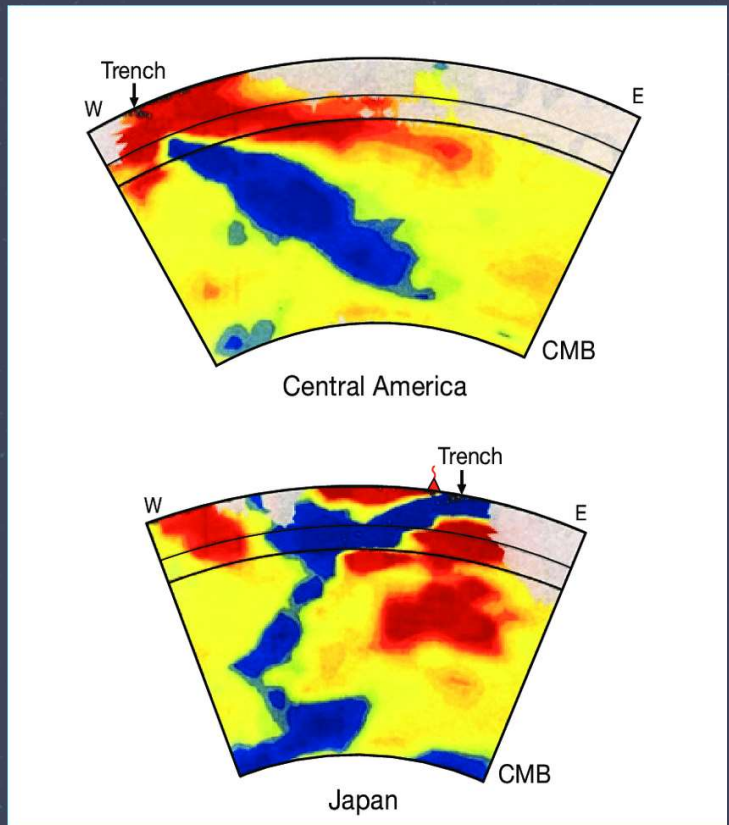
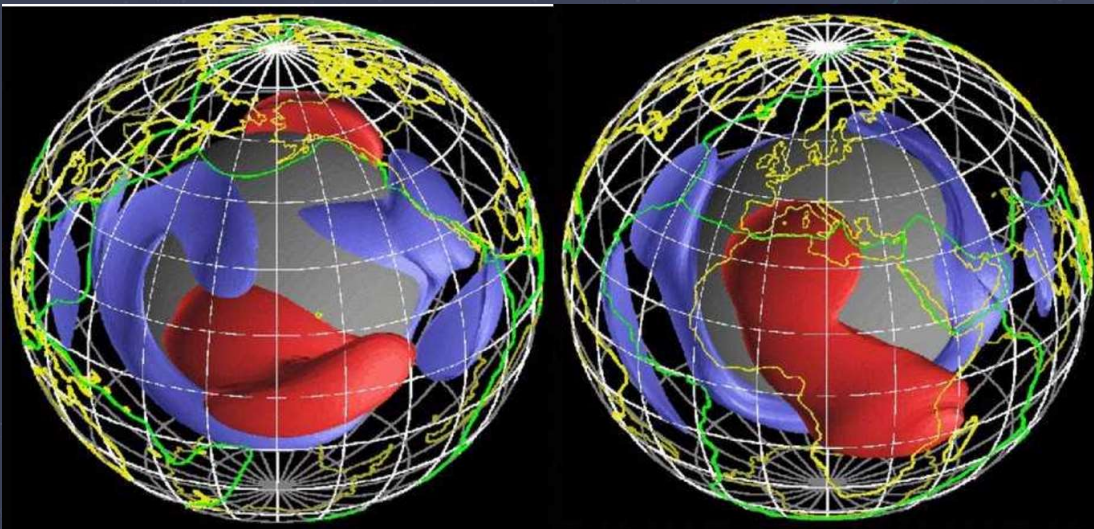


https://www.youtube.com/watch?v=-n2ANUKSF2BE&ab_channel=IsGenesisHistory%3F

18:15-20:23

Evidence for catastrophic processes:

9. Cold Slabs in the mantle



Continental Drift / Continental Sprint

inches per year / miles per hour

slow and gradual / rapid and catastrophic

millions of years / year long global flood

What evidences do we see?



Hebrews 11:7

By faith Noah, being warned by God concerning events as yet unseen, in reverent fear constructed an ark for the saving of his household. By this he condemned the world and became an heir of the righteousness that comes by faith.

Discussion Questions:

1. Any observations from the seven verses we started with?
2. What was your experience during the March, 2020 earthquake?
3. What did you learn tonight? What stood out to you?
4. Which evidence was the most compelling for the Catastrophic Plate Tectonics model? Why?
5. Have a few people pray.



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