



God's Grand Design

Exploring Origins in Science and Scripture

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)**

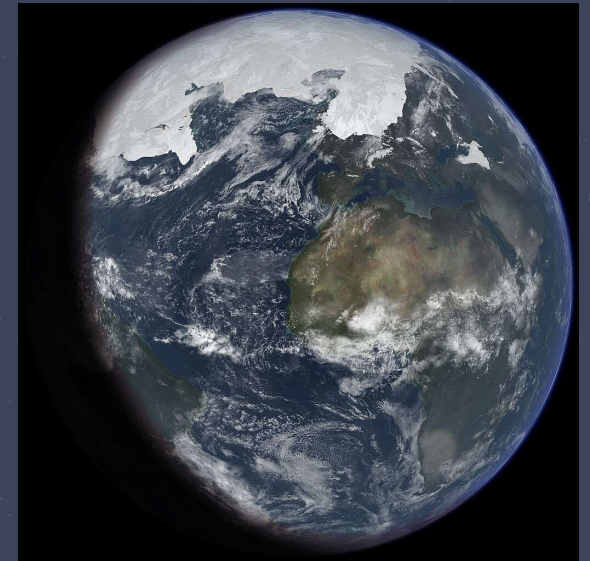
What was the earth like after the flood?

Were the catastrophes over?



What is the Ice Age?

A long period of reduction in the temperature of Earth's surface and atmosphere, resulting in the presence or expansion of continental and polar ice sheets and mountain glaciers.



Evidence for the Ice Age:

1. Striations (rock scratching)



Evidence for the Ice Age:

2. Glacial Moraines



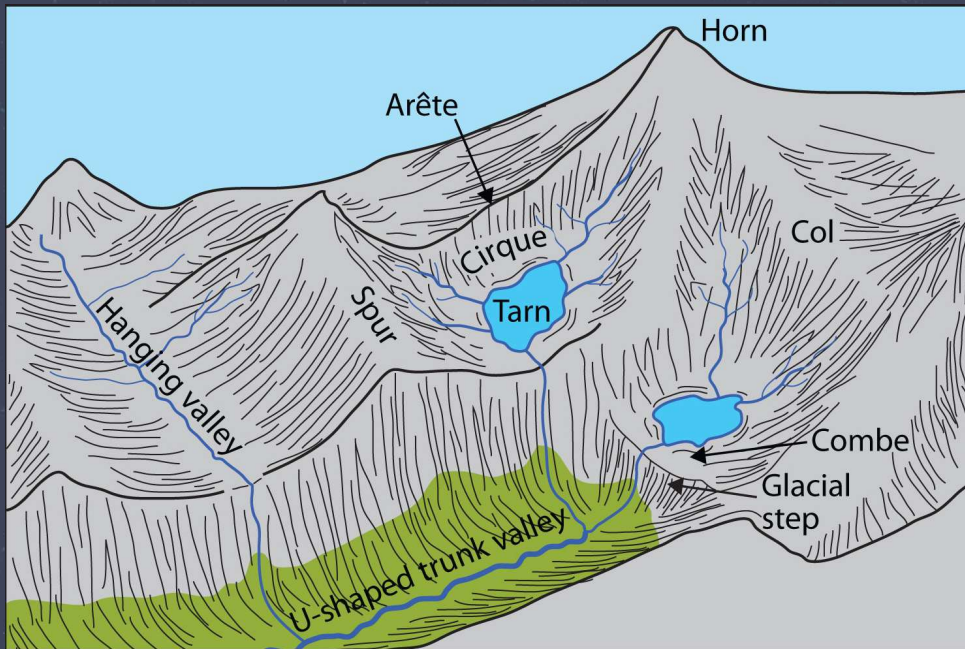
Evidence for the Ice Age:

3. Glacial Valley Cutting



Evidence for the Ice Age:

4. Glacial Erratics



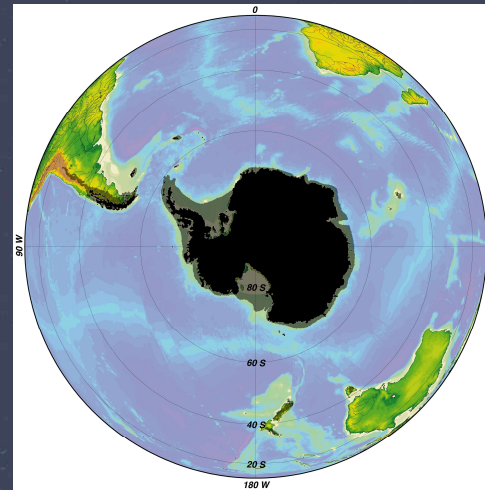
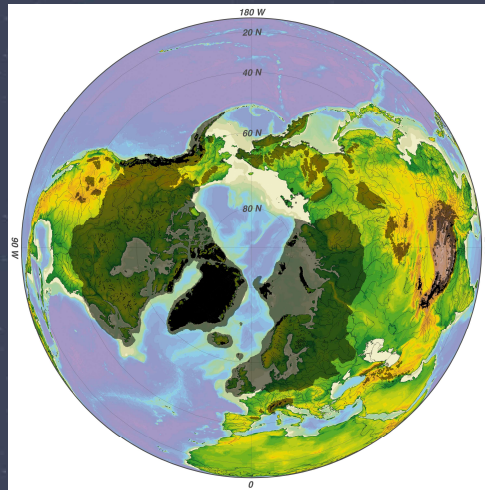
Ice Age Statistics:

- 30% of the continents were covered with ice (compared to 10% today).**
- Average ice thickness was 2.0-2.5 miles.**

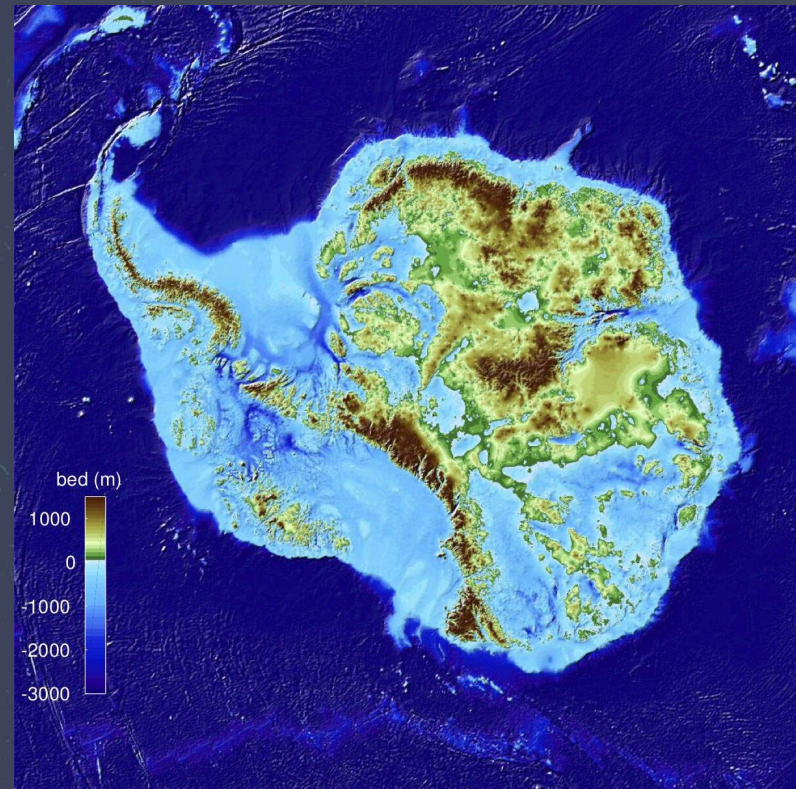
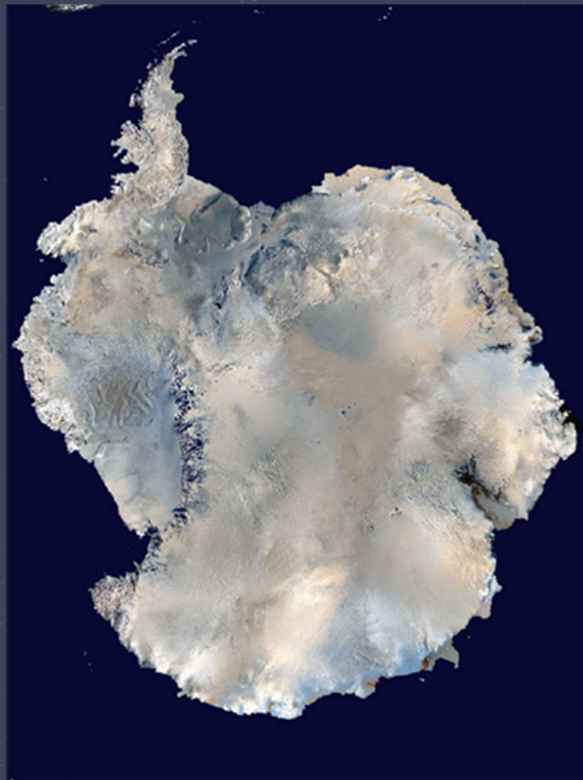


Stats on the Ice Age:

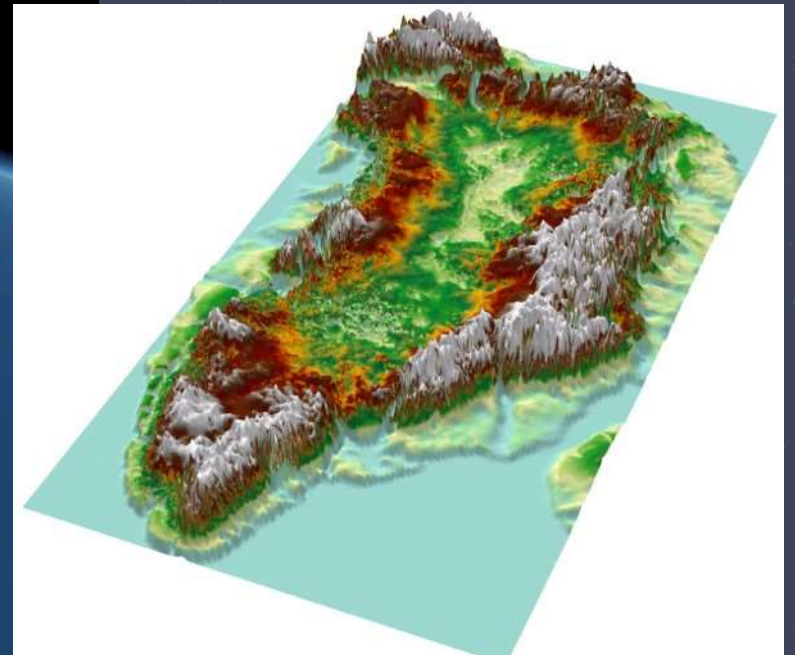
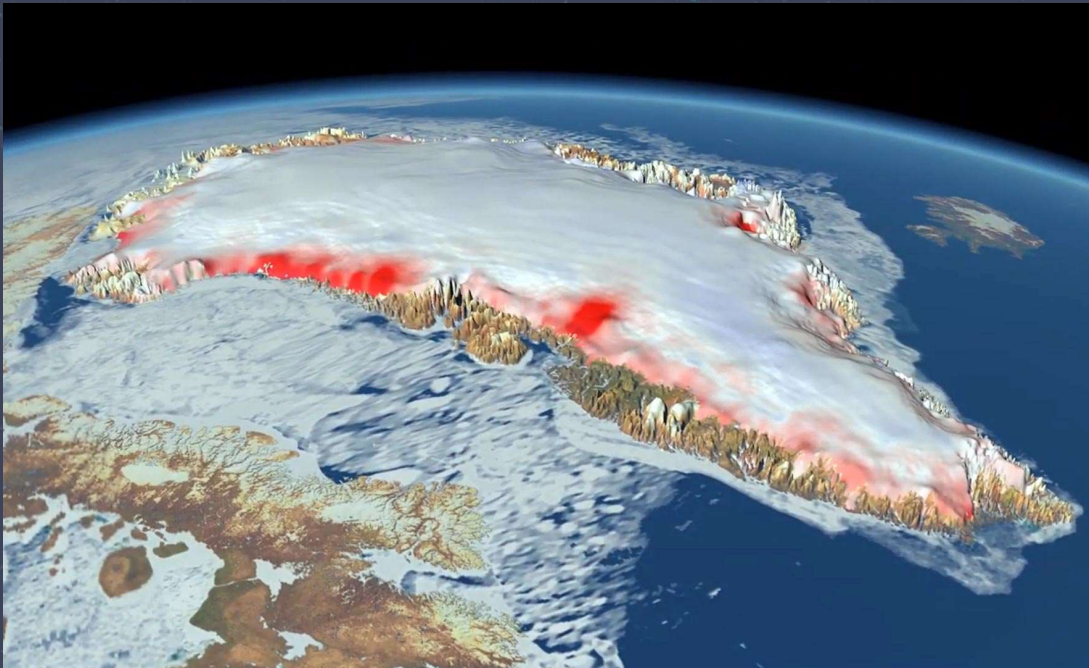
- 30% of the continents were covered with ice (compared to 10% today).**
- Average ice thickness was 2.0-2.5 miles.**



Antarctica with and without Ice:



Greenland with and without Ice:

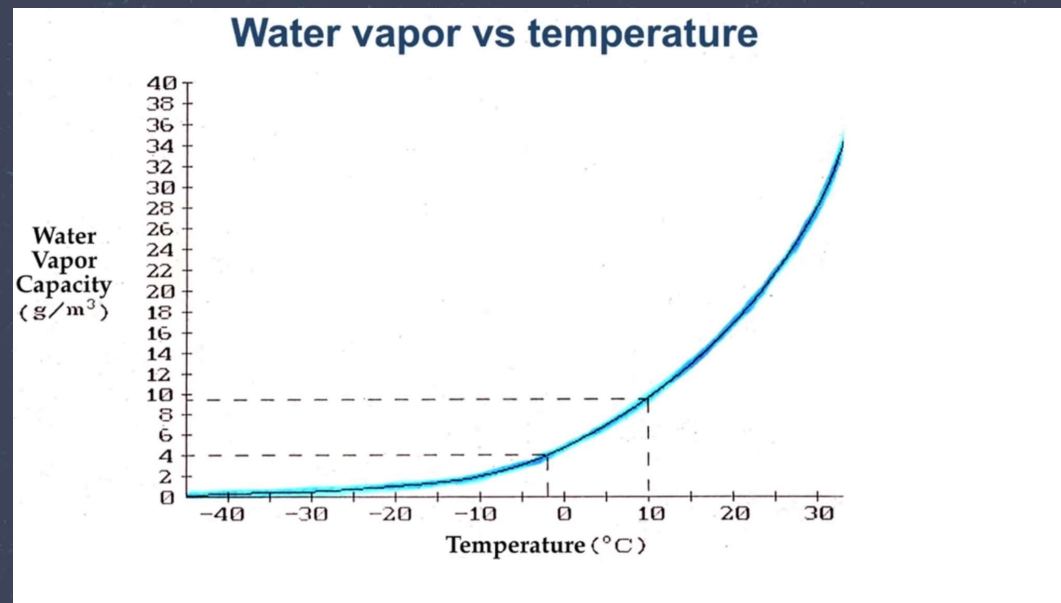


North American Ice Sheet: Isostatic rebound

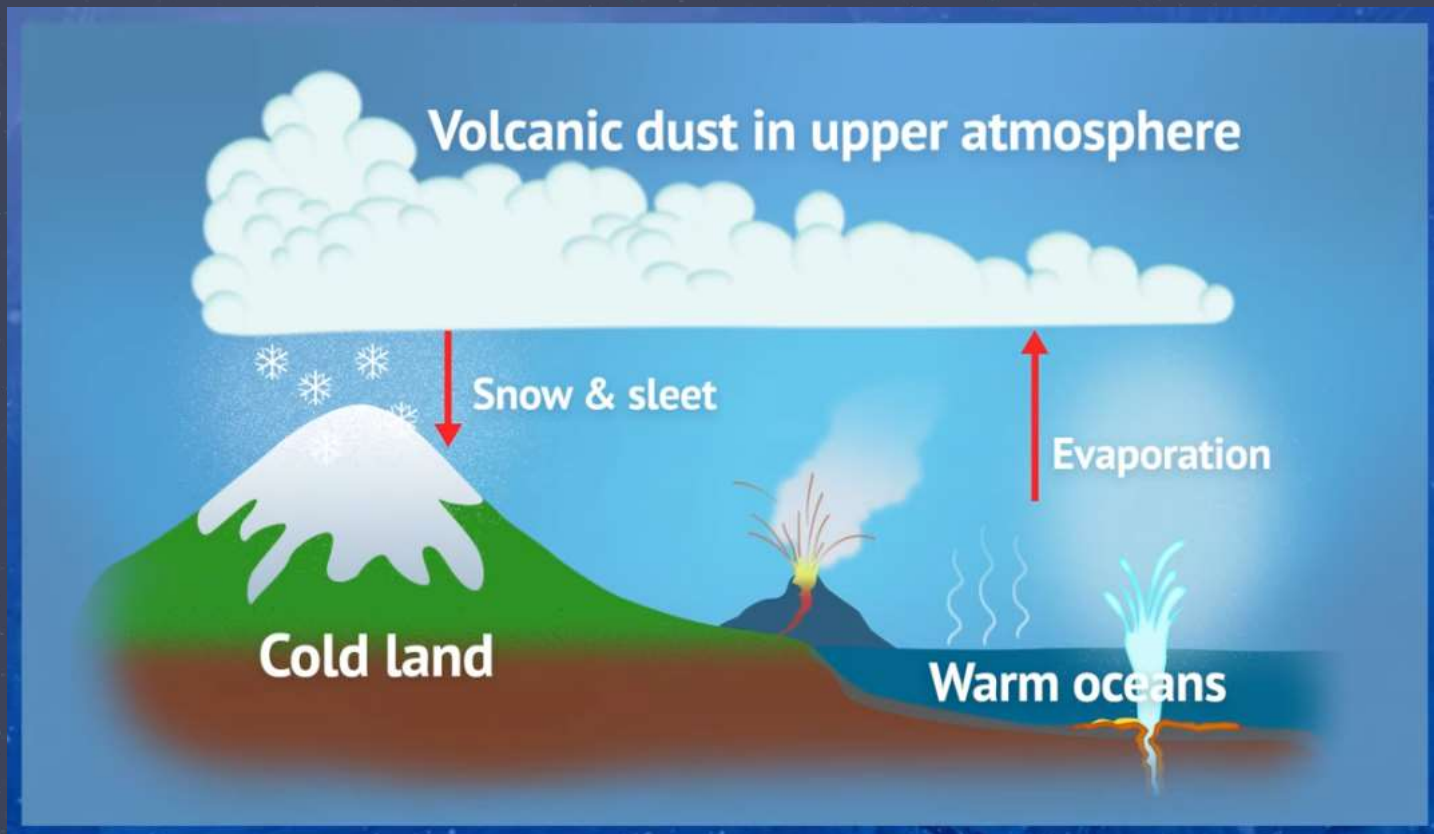


What caused the Ice Age?

Cold, kind of...



What caused the Ice Age?



Secular Ice Age Timelines:

Huronian Ice Age

- 2.5 to 2.2 billion years ago

Cryogenian Ice Age

- 720 to 635 million years ago

Andean-Saharan Ice Age

- 460 to 420 million years ago

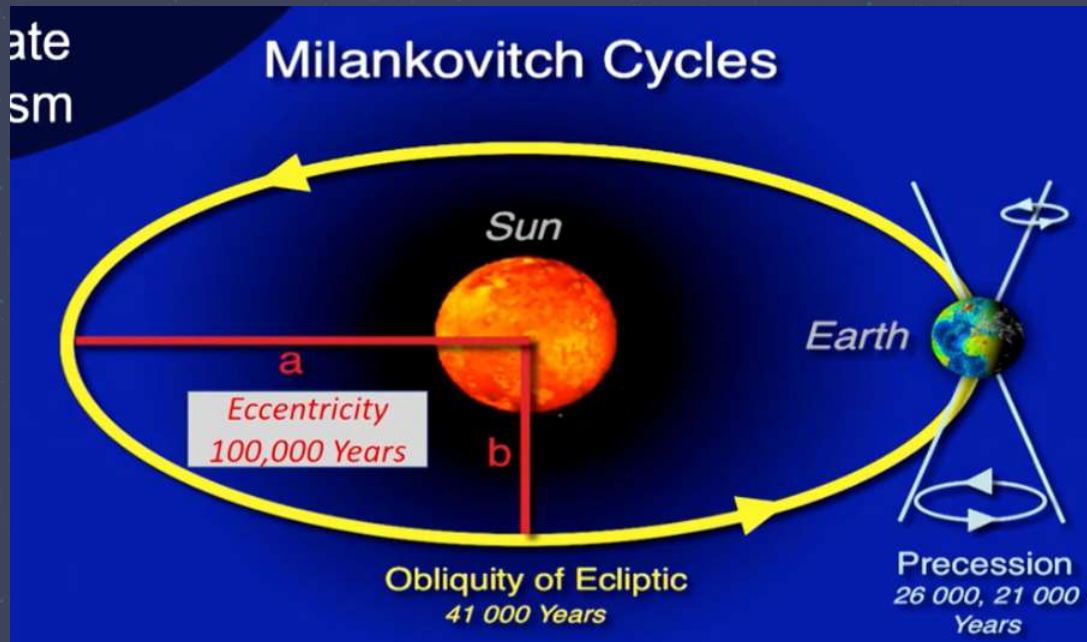
Late Paleozoic Ice Age

- 360 to 255 million years ago

Latest Quaternary Ice Age

- 2.5 million years ago

60 Secular Theories for Ice Ages:



The Weather Channel

Search City or Zip Code

84° Dramaga, West Jav... 73° Augusta, GA 62° Sterling, CO

Today Hourly 10 Day Weekend Monthly Radar

Did Huge Asteroids Trigger A Deep Freeze On Earth?

It's an unanswered question from millions of years ago, what sent Earth into a deep freeze? There's ...

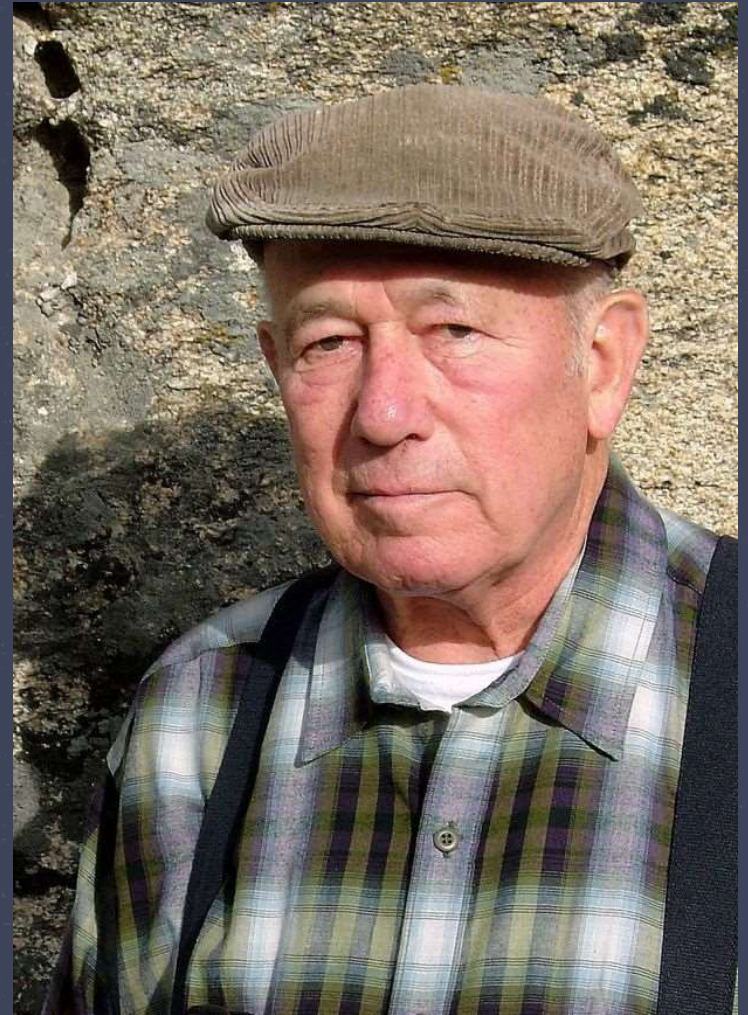
Did Huge Asteroids Trigger A Deep Freeze On Earth?

April 28, 2024

It's an unanswered question from millions of years ago, what sent Earth into a deep freeze? There's a lot of scientific debate about so-called "Snowball Earth", those multiple periods when the planet was covered in ice. Now a group of researchers think they have the answer. See their theory in this video.

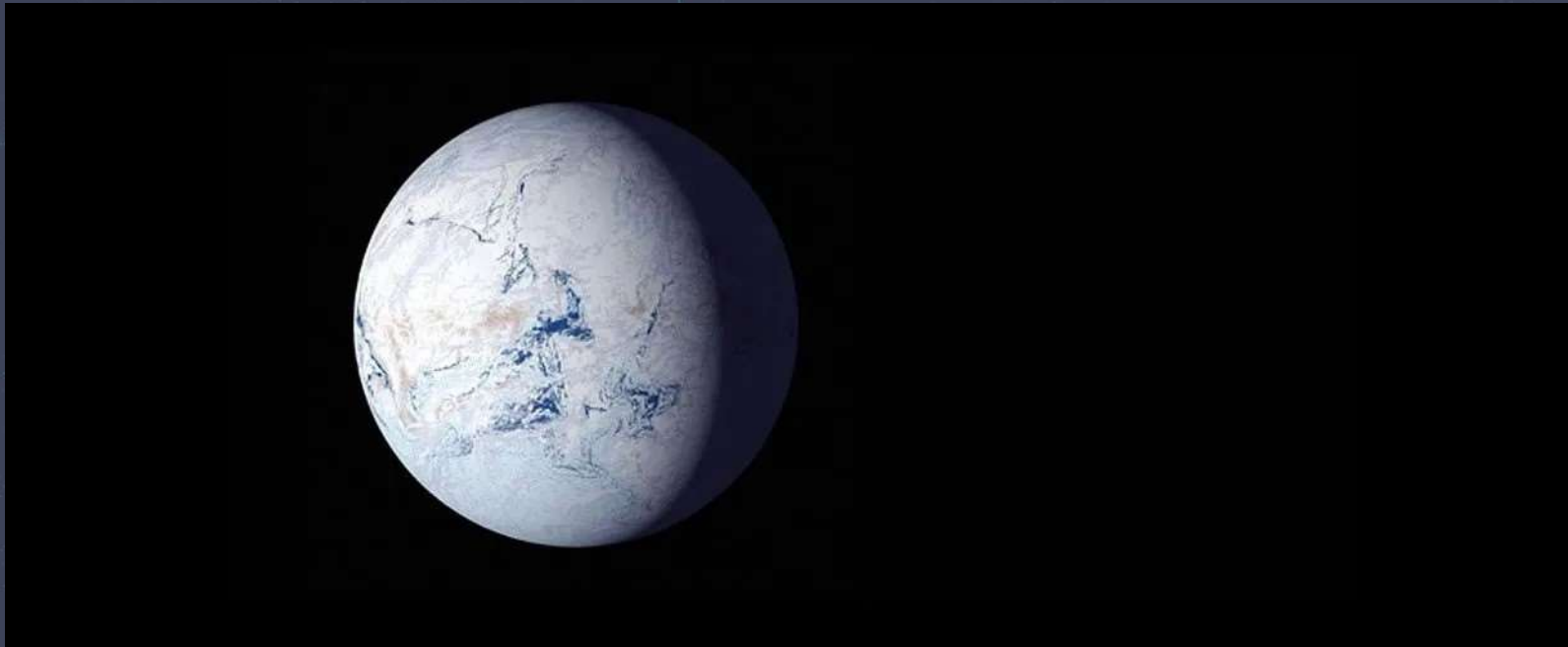
“Although theories abound, no one really knows what causes ice ages.”

- David Alt, Geology Professor

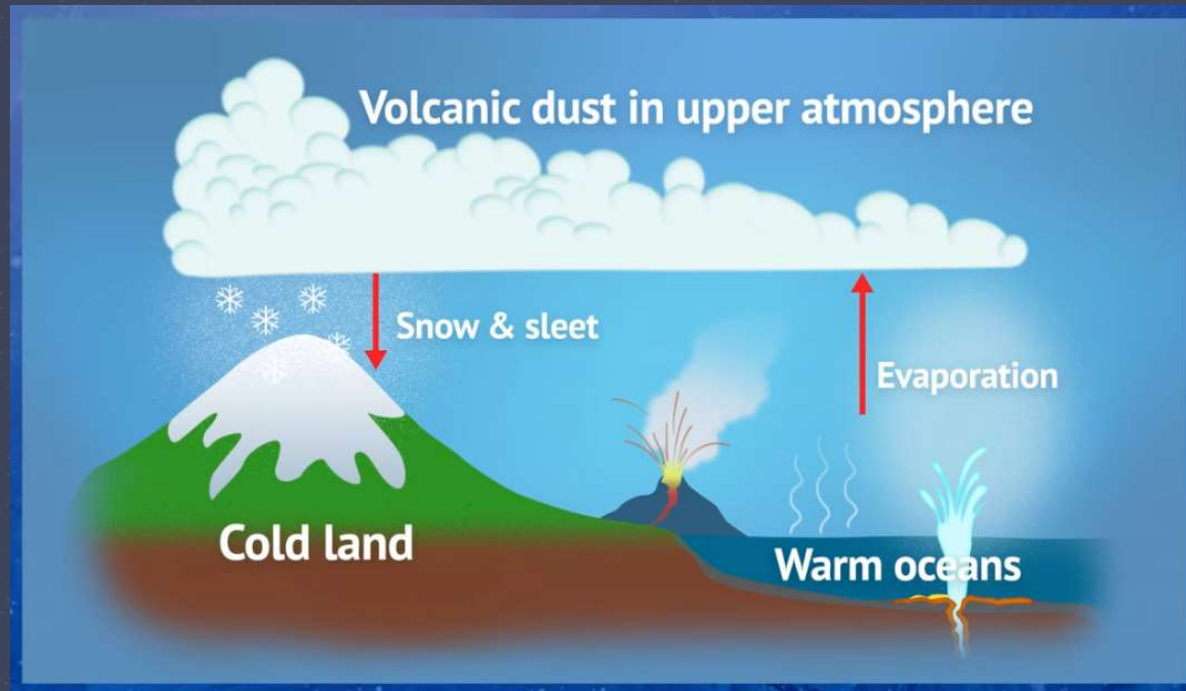


**If you don't have a mechanism
to stop the Ice Age...**

The earth gets colder and colder.



The Global Flood Explains the Ice Age.

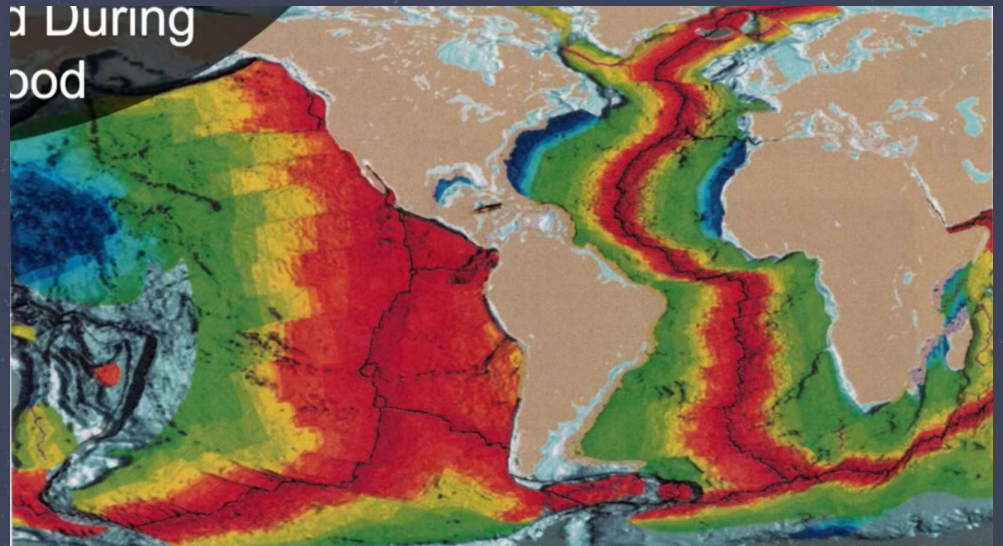


The Global Flood Explains the Ice Age.

Warmer oceans, resulting in increased precipitation.

"4-10x precipitation." During Flood

- Dr. Vardiman



The Global Flood Explains the Ice Age.

Warmer oceans, resulting in increased precipitation.

"4-10x precipitation." - Dr. Vardiman

	Current	Current	Ice Age	Ice Age	Ice Age	Ice Age
Annual	Rain (ft)	Snow (ft)	Rain (ft)	Snow (ft)	Rain (ft)	Snow (ft)
	-	-	4x	4x	10x	10x
Salt Lake City, Utah	1.4	4.9	5.5	19.5	13.8	48.8
Cottonwood Canyons, Utah		45.9		183.7		459.2
Mount Waialeale, Kaua'i	37.5					
Mount Rainier, Washington		53.8				

The Global Flood Explains the Ice Age.

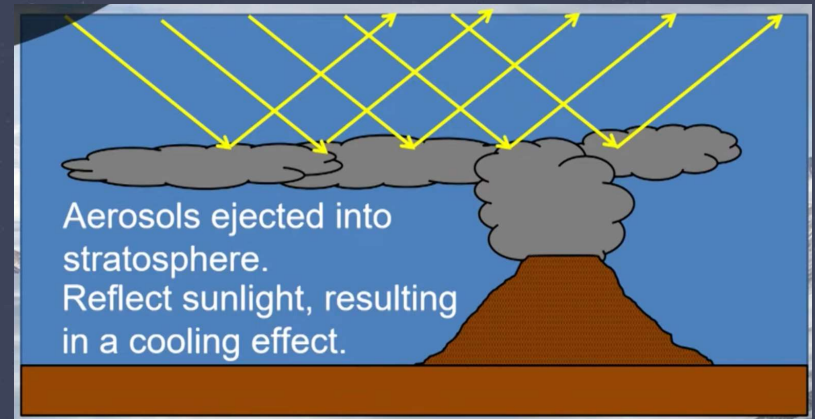
Increased volcanic activity (more aerosols).



The Global Flood Explains the Ice Age.

Increased volcanic activity (more aerosols).

Dr. Vardiman – Need a 34° F drop in temperature to maintain the snow during the summer.



Cooling After Recent Explosive Volcanic Eruptions

Mount St. Helens



Tambora (1815):

1816: “year without a summer”

Krakatoa (1883):

Ave. global temps. dropped by as much as 1.2° C.

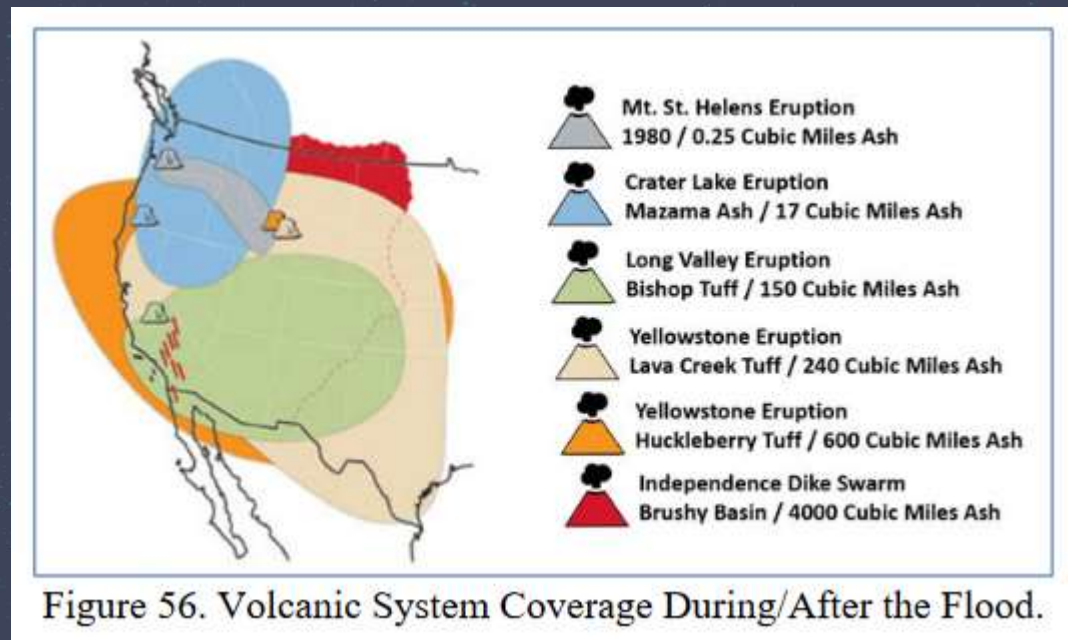
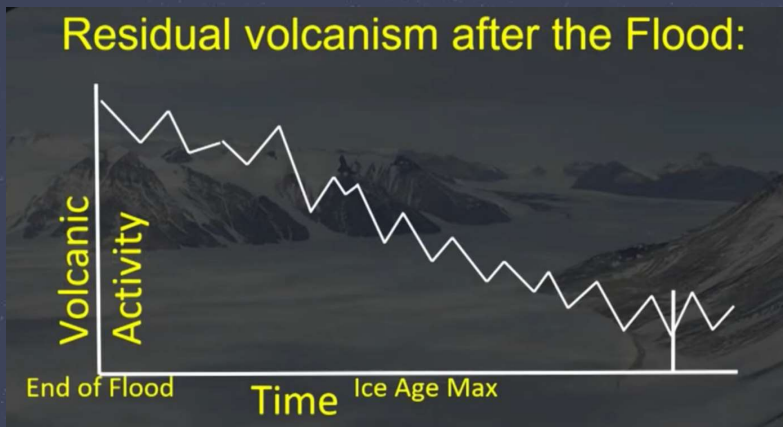
Pinatubo (1991):

Global temp. drop of 0.5° C.



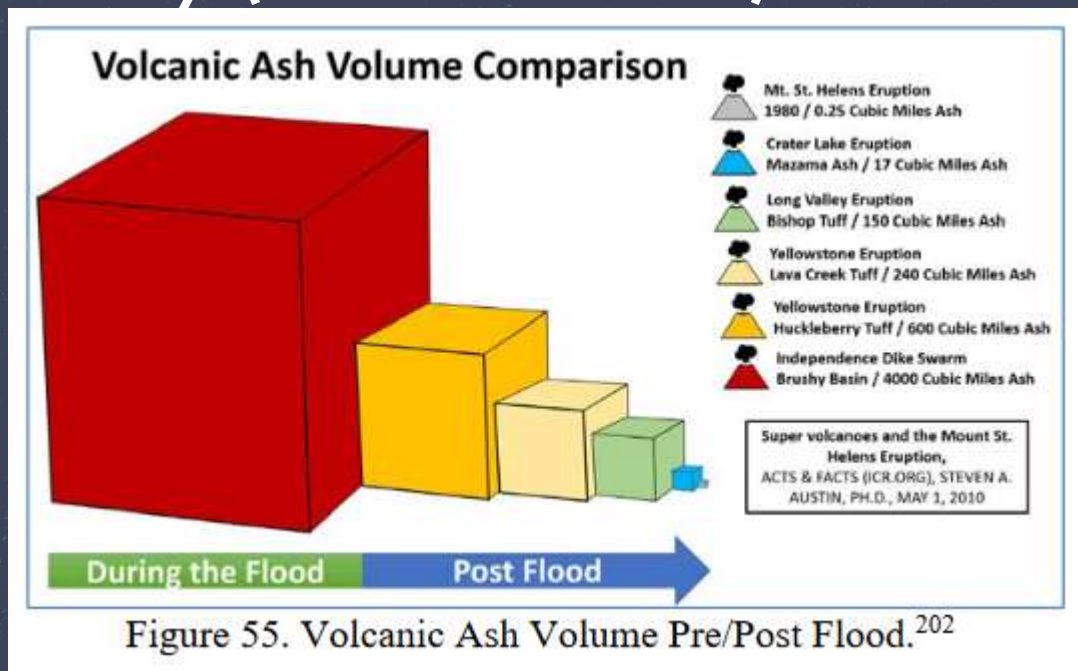
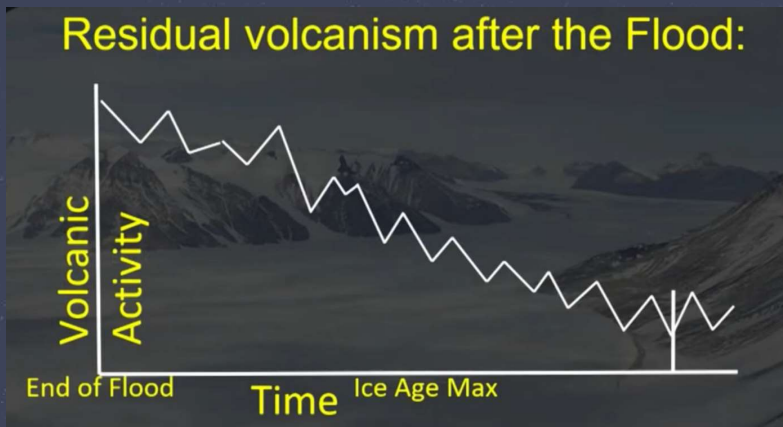
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Increased volcanic activity (more aerosols).



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Creation Ice Age Timeline:

2500 BC - Flood Ends

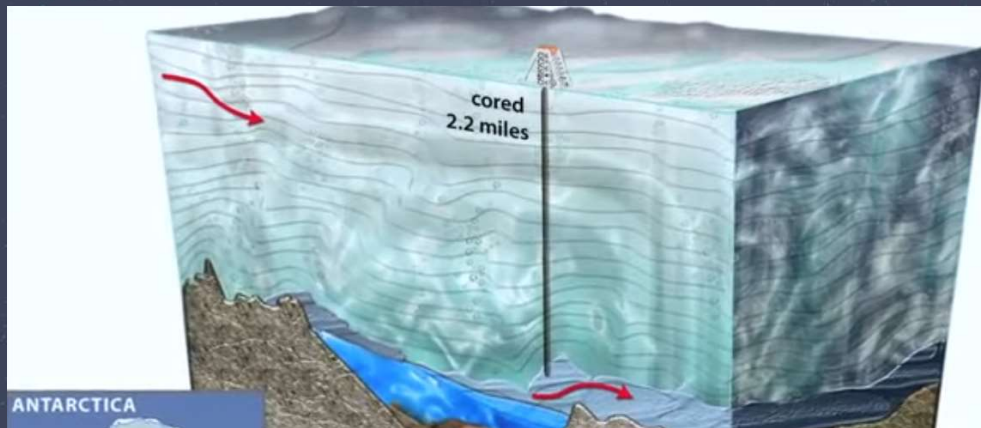
2000 BC - Ice Age reaches maximum extent

1800 BC - Ice Age has melted significantly

https://www.youtube.com/watch?v=FfJd08ICoow&ab_channel=IsGenesisHistory%3F

0:00-3:21

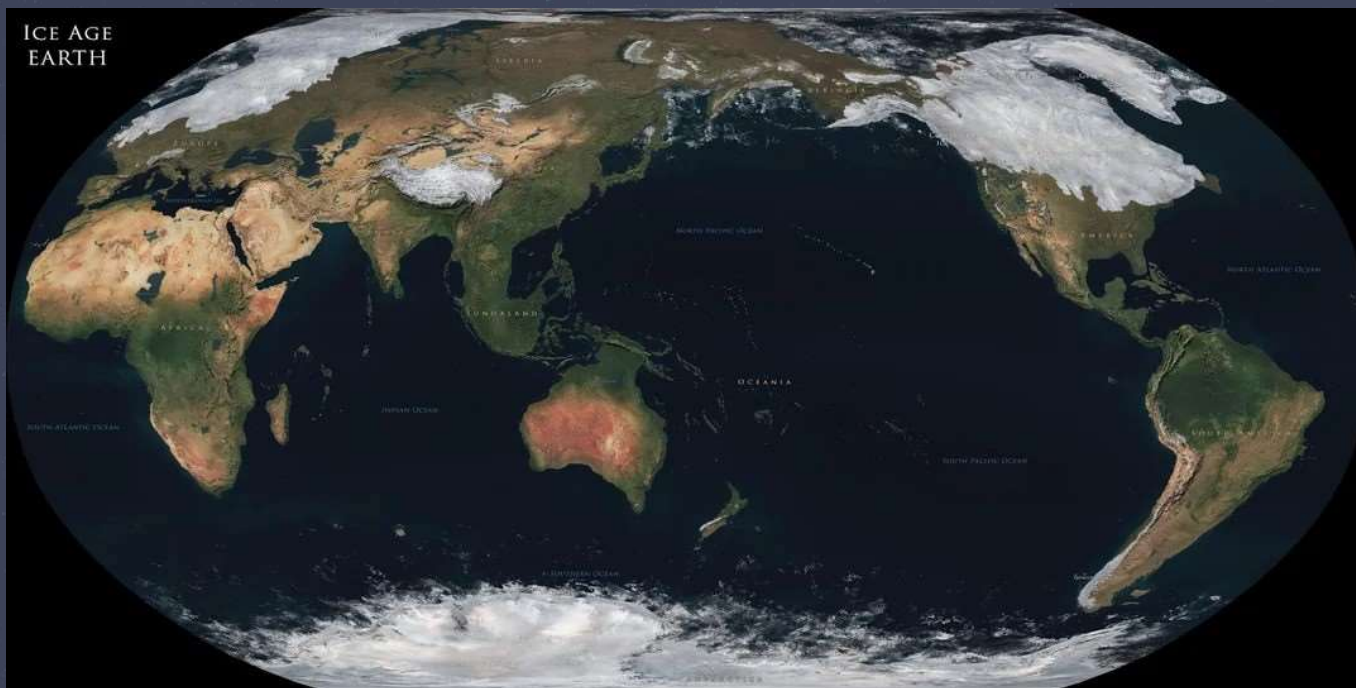
What about ice cores from Antarctica?



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

0:00-2:24

During the Ice Age, the ocean level dropped by 400 feet!

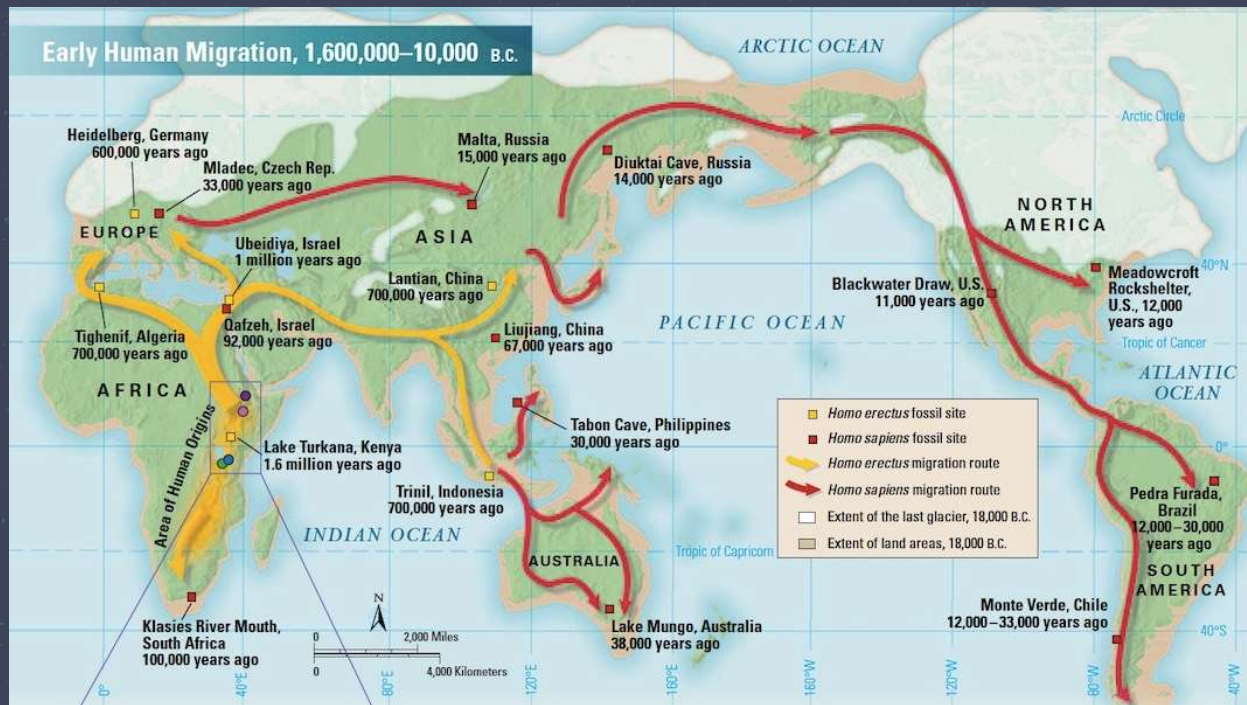


Genesis 8:15-17

Then God said to Noah, 16 "Go out from the ark, you and your wife, and your sons and your sons' wives with you. 17 Bring out with you every living thing that is with you of all flesh—birds and animals and every creeping thing that creeps on the earth—that they may swarm on the earth, and be fruitful and multiply on the earth."



Lower Ocean Levels Allows Animals and Humans to Migrate



Lower Ocean Levels Allows Animals and Humans to Migrate



Lower Ocean Levels Allows Animals and Humans to Migrate

Doggerland

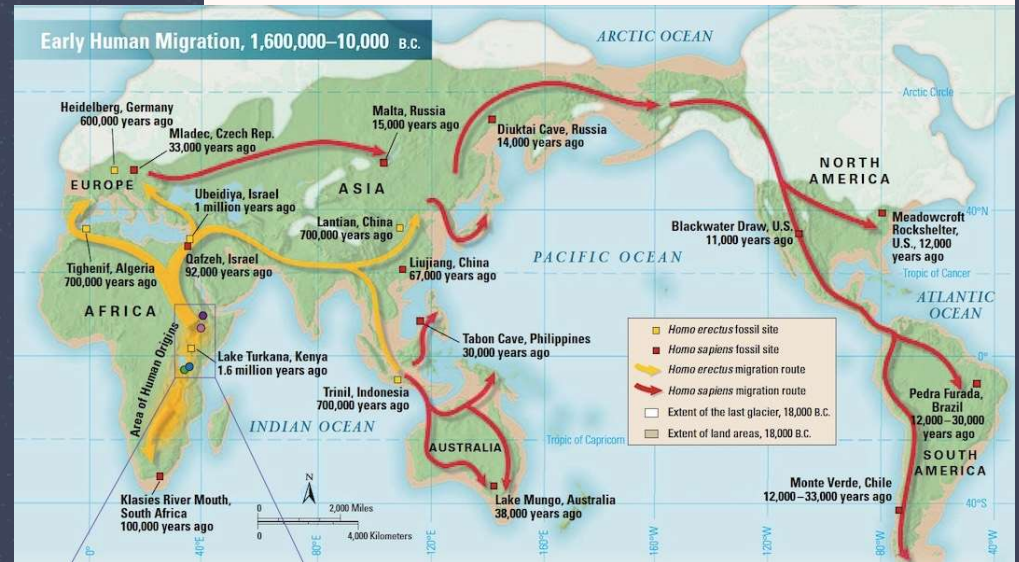


Lower Ocean Levels Allows Animals and Humans to Migrate

Yonaguni Submarine Ruins, Japan (85 ft. deep)



Human Diversity

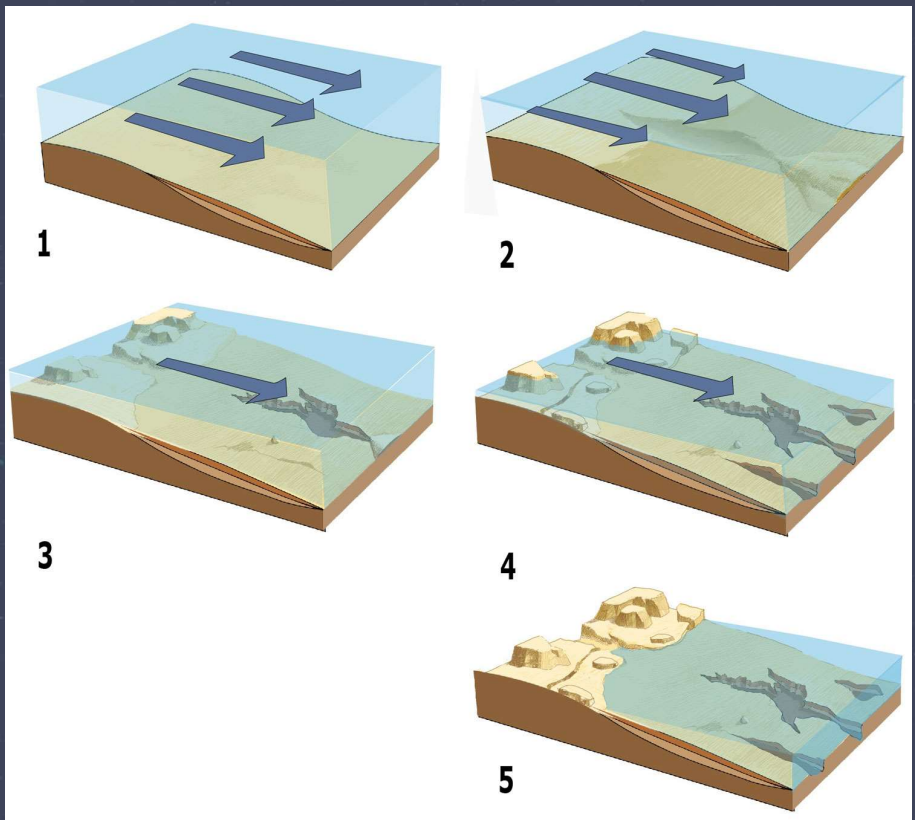


Kangaroos



Sheet flow versus Channelized flow

Submarine Canyons



Submarine Canyons



Monterey Canyon, California

Pluvial Lakes

(relating to rain, much rain)

-increased precipitation leads to the formation of pluvial lakes



Pluvial Lakes

Lake Bonneville



Ice Age Creatures



Ice Age Creatures

Woolly Mammoths



Question: Is the Earth's climate fundamentally stable or unstable?

Genesis 8:20-9:1

Then Noah built an altar to the Lord and took some of every clean animal and some of every clean bird and offered burnt offerings on the altar. 21 And when the Lord smelled the pleasing aroma, the Lord said in his heart, "I will never again curse the ground because of man, for the intention of man's heart is evil from his youth. Neither will I ever again strike down every living creature as I have done. 22 While the earth remains, seedtime and harvest, cold and heat, summer and winter, day and night, shall not cease." 9:1 And God blessed Noah and his sons and said to them, "Be fruitful and multiply and fill the earth."

Creation Ice Age Timeline:

2500 BC - Flood Ends

2000 BC - Ice Age reaches maximum extent

1800 BC - Ice Age has melted significantly

Creation Timeline Objections:

1. Is 500 years enough time for the ice to form?
2. Is 200 years enough time for the ice to melt?
3. Is this time period sufficient for the animals and humans to spread out?

Creation Timeline Objections:

1. Is 500 years enough time for the ice to form?

Greenland, 1942

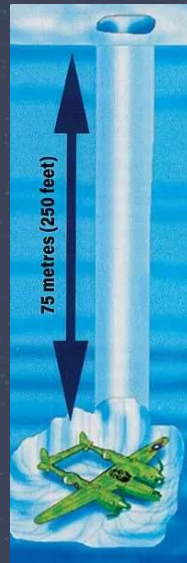
6 P-38s

2 B-17s

1988 Discovered

250 feet of Ice!

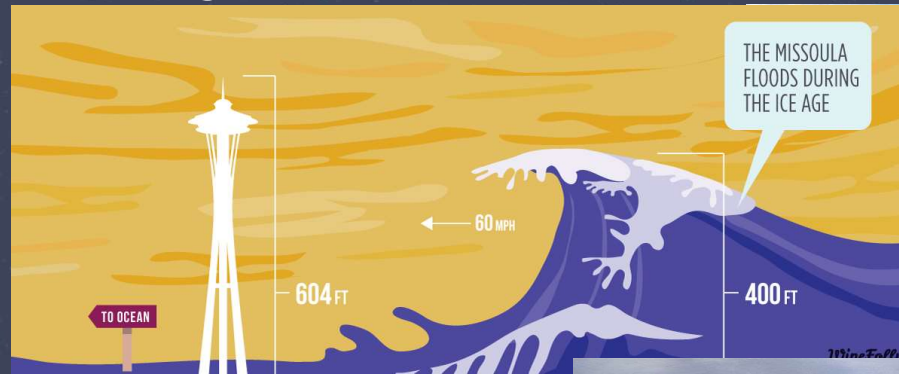
5.4 ft. per year.



Creation Timeline Objections:

2. Is 200 years enough time for the ice to melt?

Missoula Floods
Washington State
Harlen Bretz
Catastrophic Glacial
Lake Melting



Creation Timeline Objections:

3. Is this time period sufficient for the animals and humans to spread out?

European Starlings

150 million

1890 – 2017

North America



Creation Ice Age Timeline:

2500 BC - Flood Ends

2000 BC - Ice Age reaches maximum extent

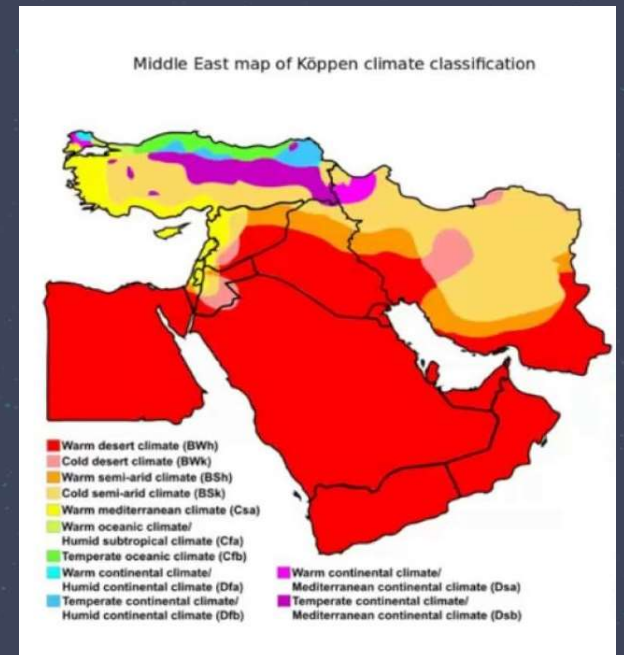
1800 BC - Ice Age has melted significantly

Mentions of Ice (3)

Job 6:16 Which are dark with ice, and where the snow hides itself.

Job 37:10 By the breath of God ice is given, and the broad waters are frozen fast.

Job 38:29 From whose womb did the ice come forth, and who has given birth to the frost of heaven?



Mentions of Snow (5)

Job 6:16 Which are dark with ice, and where the snow hides itself.

Job 9:30 If I wash myself with snow and cleanse my hands with lye.

Job 24:19 Drought and heat snatch away the snow waters; so does Sheol those who have sinned.

Job 37:6 For to the snow he says, 'Fall on the earth,' likewise to the downpour, his mighty downpour.

Job 38:22 "Have you entered the storehouses of the snow, or have you seen the storehouses of the hail."



Genesis 13:10

And Lot lifted up his eyes and saw that the Jordan Valley was well watered everywhere like the garden of the Lord, like the land of Egypt, in the direction of Zoar. (This was before the Lord destroyed Sodom and Gomorrah.)



Wikipedia - Wikipedia
Mount Sodom - Wikipedia



Alamy
Mount Sodom (Har Sedom) is a hill...



Facebook
Mount Sodom (Hebrew...



Wikimapia
Har Sedom - Moun...



Madain Project (en)
Mount Sodom - Madain Project (en)



Alamy
Mount Sodom (Har Sedom) is a hill...



Israel and You
Mount Sodom, De...



Alamy
Mount Sodom (Har Sedom) is a hill...



Alamy
Mount Sodom (Har Sedom) is a hill a...



Israel and You
Mount Sodom, Dead Sea...



Wikipedia
Mount Sodom - Wikipedia



Advisor.Travel
Mount Sodom in Sodom



Alamy
Mount Sodom (Har Sedom) is a hill al...



Alamy
Mount Sodom (Har Sedom) is a hill al...



Advisor.Travel
Mount Sodom in Sodom



Resources:

Michael Oard & Dr. Larry Vardiman



Michael J. Oard
Meteorologist, Author, Speaker

Home [Bios](#) Michael J. Oard

Mike Oard has an MS degree in atmospheric science from the University of Washington. After 30 years as a meteorologist with the US National Weather Service, he retired and now is fully devoted to research on the compelling evidence for Noah's flood and the post-flood ice age. He has done considerable study on the woolly mammoths in light of Noah's flood and the ice age. Mike has published several research papers in his field in journals of the American Meteorological Society. His creationist research has been published in technical books, laymen's books, and children's books, as well as in many creationist journals. He also lectures on these subjects and serves on the board of directors of the Creation Research Society in the US.



Name:	Dr. Larry Vardiman
Title:	Senior Research Scientist, Astro/Geophysics
Specialty:	Atmospheric Studies, Climate Change, Ice Age, Age of the Earth's Atmosphere

While obtaining his Ph.D., Dr. Larry Vardiman served as a research assistant at Colorado State University's Department of Atmospheric Science (1970-74) and as a consulting meteorologist at Western Scientific Services (1973-74). After receiving his degree in Atmospheric Science, he worked as site director for a cloud seeding research program for the Department of Interior's Bureau of Reclamation in Denver, Colorado (1974-82). He also served as a consultant to the Colorado Governor's Advisory Panel on Weather Modification. Dr. Vardiman was an officer in the United States Air Force with the Air Weather Service in the Aerospace Modification Division at Scott Air Force Base, Illinois. Before coming to ICR, he taught at Christian Heritage College as a Professor of Natural Sciences from 1982 to 1989, serving as Academic Dean from 1987 to 1989. From 1989 to 2009, he was Chairman of the Astro/Geophysics Department at the ICR Graduate School, also serving two years as Chief Operating Officer. Dr. Vardiman was a major participant and director of ICR's Radioisotopes and the Age of the Earth (RATE) research project. He has authored many technical papers and books. Much of his scientific contributions have been in the areas of ice crystal growth and evolution, rain from "the windows of heaven" (Genesis 7:11), the age of the earth's atmosphere, the Ice Age and the Genesis Flood, and catastrophic hurricane formation. His most recent research focused on the Ice Age in Yosemite and Yellowstone National Parks, and giant typhoons in the Middle East.

Lake Blanche, Utah

Glacial striations



Tooele, Utah

Marine fossils



St. George, Utah

Basalt (lava)



Park City, Utah

Volcanic Ash



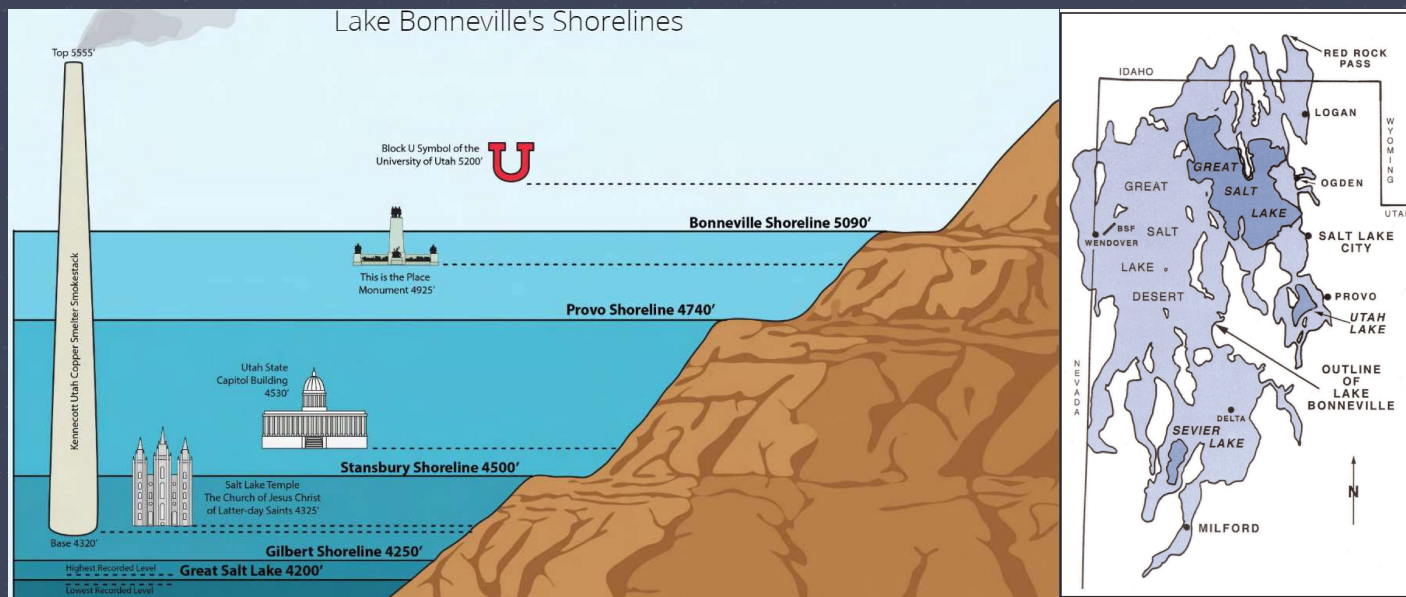
Grand Canyon, Arizona

Layers and erosion



Utah, Nevada and Idaho

Lake Bonneville



Vernal, Utah

Dinosaur National Monument



What does Genesis 1 actually teach? CLASS 2

What does the Bible teach about astronomy? CLASS 3, 7

Does distant starlight present a problem? CLASS 3, 7

What is science? What can science teach us about origins? CLASS 4

Did people evolve from primates? CLASS 4

How old is the earth? CLASS 5

What about radiocarbon/radiometric dating? CLASS 6

What about shared DNA? CLASS 8

Aren't there examples of evolution happening around us? CLASS 8

Did Adam have a belly button? CLASS 8

Who did Adam and Eve's children marry? CLASS 8

Did the flood happen? Do we see any evidence of it?

CLASS 9, 10, 11, 12

How do we explain the geological column? CLASS 10

**How did we get the different races and languages? ARK
& DARKNESS MOVIE**

**How did Noah fit all the animals on the ark? ARK &
DARKNESS MOVIE**

How was the Grand Canyon formed? CLASS 11

How does plate tectonics fit into all of this? CLASS 12

How do we get fossils? CLASS 13

What happened to the dinosaurs? CLASS 13

Where are the human fossils? CLASS 13

What about the ice age? CLASS 14

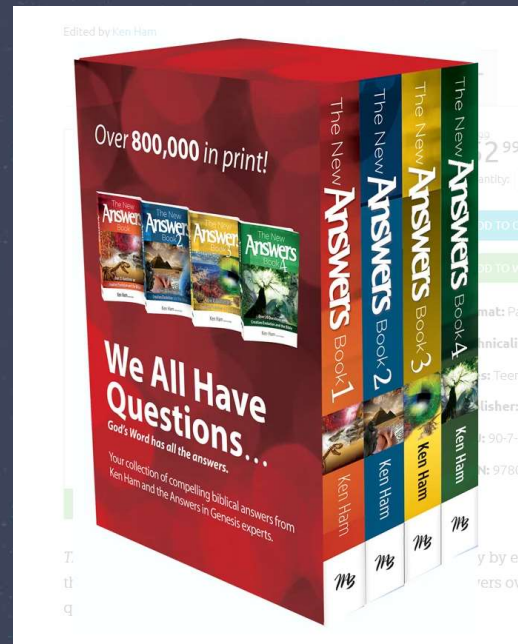
**How did the animals spread over the earth after the
flood? CLASS 14**



THANK YOU!

Books

The New Answers Books 1-4, ~\$50



Films

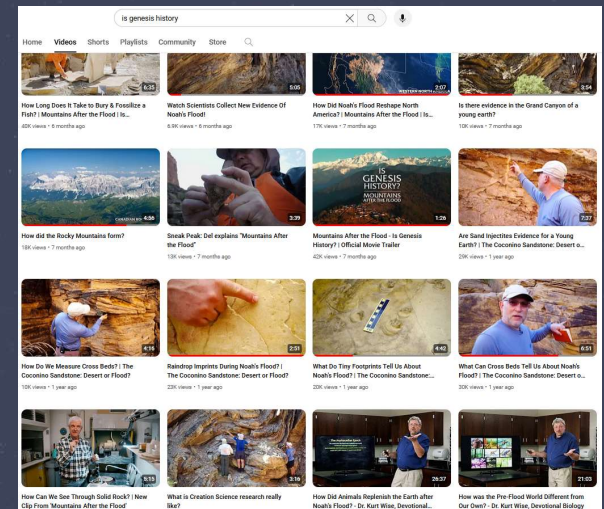
Beyond Is Genesis History Vol. 1-3, ~\$60



<p>Is Genesis History? Mountains After the Flood FROM \$19.95 \$16.99 ★★★★★ (58)</p>	<p>Is Genesis History? Feature Film FROM \$19.95 \$12.99 ★★★★★ (27)</p>	<p>Beyond Is Genesis History? Vol 1 : Rocks & Fossils FROM \$29.95 \$23.95 ★★★★★ (40)</p>
<p>Beyond Is Genesis History? Vol 2 : Life & Design FROM \$29.95 \$23.95 ★★★★★ (14)</p>	<p>Beyond Is Genesis History? Vol 3 : Bible & Stars FROM \$29.95 \$23.95 ★★★★★ (9)</p>	<p>Bible Study Set \$24.99 ★★★★★ (10)</p>

Youtube Videos: FREE!

- 1. Is Genesis History - 510 videos**
- 2. Answers in Genesis Canada - 365 videos**
- 3. Creation Ministries International - 785 videos**
- 4. Answers in Genesis - 2,043 videos**
- 5. Genesis Apologetics - 437 videos**
- 6. Institute for Creation Research - 573 videos**



Websites:

Creation.com

Answersingenesis.com

The screenshot shows the homepage of Creation.com. At the top, there is a navigation bar with 'EXPLORE' and 'CREATION.com' logo. Below this is a blue banner with the text 'Help us reach the next generation!' and a progress bar showing '\$47K of \$300K goal'. The main content area features the headline 'The most asked questions about origins ... answered'. There are three article thumbnails: 'Creation for Kids: There was no age of dinosaurs' (1 May 2024), 'Maher: abortion is murder' (30 April 2024), and 'Amazing ant antics' (29 April 2024). A 'Today's Article' section highlights 'James Webb Space Telescope and ET.' (27 April 2024). A 'More recent articles' link is at the bottom right.

The screenshot shows the homepage of Answers in Genesis. The top navigation bar includes 'Answers Store Events Media Kids Education Donate'. The main header is 'BIBLICAL & SCIENTIFIC ANSWERS' with a search bar and categories: Bible, Culture, God, Creation, Science. The featured article is 'Hezekiah and Bible Chronology' by A. John M. Osgood, dated May 1, 2024, noon. To the right, there is a 'Latest Videos' section with two video thumbnails: 'Where Was the Garden of Eden?' and 'Fossil Landing Exposes Faulty Science'.

Email Lists:

Creation.com

Answersingenesis.com


 THE CREATION DAILY VIEW ONLINE

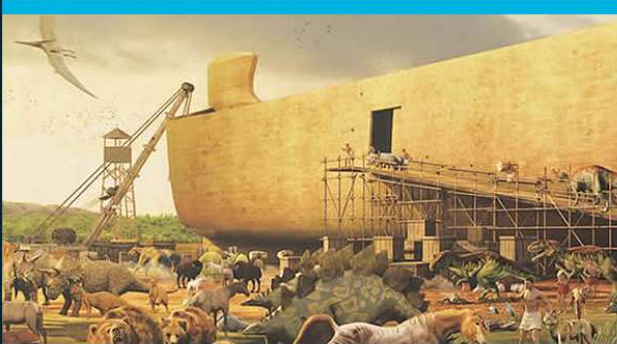


Marsupials in Australia—an act of God?

by Graeme Taylor

How did Australia come to be inhabited by about 140 species of marsupial mammals and a couple of species of monotremes, but no placental terrestrial mammals (apart from rats, which may have been relatively late arrivals)? Creationists tend to avoid supernatural causes when explaining the post-Flood

 **Latest Answers**
April 20, 2024
[View in browser](#)



Were Dinosaurs on Noah's Ark?


Were dinosaurs on Noah's ark? **In Genesis**, we read that man's wickedness had become so great that God sent a global flood **in** judgment, but he saved

Magazines:

Acts and Facts (Free)

Answers (\$40)

Creation (\$25)



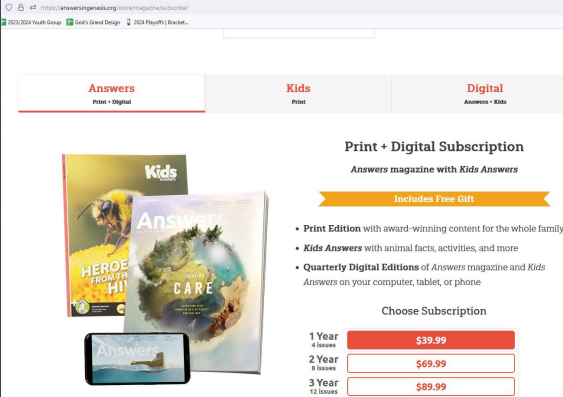
Receive Our Publications

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Answers
Print + Digital

Kids
Print

Digital
Answers + Kids

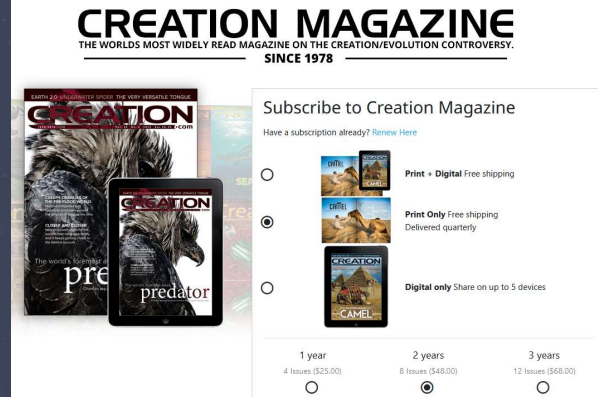
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Your word is true from the beginning: and every one
of your righteous judgments endures forever. - Psalm
119:160

Revelation 4:9-11

And whenever the living creatures give glory and honor and thanks to him who is seated on the throne, who lives forever and ever, 10 the twenty-four elders fall down before him who is seated on the throne and worship him who lives forever and ever. They cast their crowns before the throne, saying, 11 “Worthy are you, our Lord and God, to receive glory and honor and power, for you created all things, and by your will they existed and were created.”

[https://www.youtube.com/watch?v=UM82qxxskZE&t=5532s&ab_channel=IsGenesisHistory%
3F](https://www.youtube.com/watch?v=UM82qxxskZE&t=5532s&ab_channel=IsGenesisHistory%3F)

1:39:15-1:41:30

Discussion Questions:

1. What did you learn tonight/what stood out to you?
2. What was your favorite class and why?
3. What is the biggest lesson you will take away from this class?
4. Have a few people pray.



God's Grand Design

Exploring Origins in Science and Scripture