

# The Flood



# Genesis 6:1-4 – The Corruption of the Godly Line

*When man began to multiply on the face of the land and daughters were born to them, <sup>2</sup> the sons of God [cf. Hos. 1:10 where “Sons of the God” refers to believers] saw that the daughters of man were attractive. And they took as their wives any they chose. <sup>3</sup> Then the LORD said, “My Spirit shall not abide in man forever, for he is flesh: his days shall be 120 years.” <sup>4</sup> The Nephilim [“giants” cf. Num 13:33] were on the earth in those days, and also afterward, when the sons of God came in to the daughters of man and they bore children to them. These were the mighty men who were of old, the men of renown.*

# Genesis 6:5-7 – The Lord Grieves Over the Wickedness of Man

*<sup>5</sup> The LORD saw that the wickedness of man was great in the earth, and that every intention of the thoughts of his heart was only evil continually. <sup>6</sup> And the LORD regretted that he had made man on the earth, and it grieved him to his heart. <sup>7</sup> So the LORD said, "I will blot out man whom I have created from the face of the land, man and animals and creeping things and birds of the heavens, for I am sorry that I have made them."*



# **Genesis 6:8-12 – Noah Stands in Contrast to Wicked Humanity**

*<sup>8</sup> But Noah found favor in the eyes of the LORD. <sup>9</sup> These are the generations of Noah. Noah was a righteous man, blameless in his generation. Noah walked with God. <sup>10</sup> And Noah had three sons, Shem, Ham, and Japheth. <sup>11</sup> Now the earth was corrupt in God's sight, and the earth was filled with violence. <sup>12</sup> And God saw the earth, and behold, it was corrupt, for all flesh had corrupted their way on the earth.*



# Genesis 6:13-16 – God's Instructions to Noah

*<sup>13</sup> 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. <sup>14</sup> Make yourself an ark of gopher wood. Make rooms in the ark, and cover it inside and out with pitch. <sup>15</sup> This is how you are to make it: the length of the ark 300 cubits, its breadth 50 cubits, and its height 30 cubits. <sup>16</sup> Make a roof for the ark, and finish it to a cubit above, and set the door of the ark in its side. Make it with lower, second, and third decks.*

# Genesis 6:17-22 – God's Covenant To Preserve Noah in the Coming Judgment

*<sup>17</sup> For behold, I will bring a flood of waters upon the earth to destroy all flesh in which is the breath of life under heaven. Everything that is on the earth shall die. <sup>18</sup> But I will establish my covenant with you, and you shall come into the ark, you, your sons, your wife, and your sons' wives with you. <sup>19</sup> And of every living thing of all flesh, you shall bring two of every sort into the ark to keep them alive with you. They shall be male and female. <sup>20</sup> Of the birds according to their kinds, and of the animals according to their kinds, of every creeping thing of the ground, according to its kind, two of every sort shall come in to you to keep them alive. <sup>21</sup> Also take with you every sort of food that is eaten, and store it up. It shall serve as food for you and for them." <sup>22</sup> Noah did this; he did all that God commanded him.*

**Answers in Genesis Presents:**

# **Thinking Outside the Box**





# Genesis 7:1-5 – God's Final Instructions to Noah

*Then the LORD said to Noah, "Go into the ark, you and all your household, for I have seen that you are righteous before me in this generation. <sup>2</sup> Take with you seven pairs of all clean animals, the male and his mate, and a pair of the animals that are not clean, the male and his mate, <sup>3</sup> and seven pairs of the birds of the heavens also, male and female, to keep their offspring alive on the face of all the earth. <sup>4</sup> For in seven days I will send rain on the earth forty days and forty nights, and every living thing that I have made I will blot out from the face of the ground." <sup>5</sup> And Noah did all that the LORD had commanded him.*

# Genesis 7:6-12 – The Flood Begins!

*<sup>6</sup> Noah was six hundred years old when the flood of waters came upon the earth. <sup>7</sup> And Noah and his sons and his wife and his sons' wives with him went into the ark to escape the waters of the flood. <sup>8</sup> Of clean animals, and of animals that are not clean, and of birds, and of everything that creeps on the ground, <sup>9</sup> two and two, male and female, went into the ark with Noah, as God had commanded Noah. <sup>10</sup> And after seven days the waters of the flood came upon the earth. <sup>11</sup> 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. <sup>12</sup> And rain fell upon the earth forty days and forty nights.*

# Genesis 7:13-16 – List of Those God Saved on the Ark

*<sup>13</sup> On the very same day Noah and his sons, Shem and Ham and Japheth, and Noah's wife and the three wives of his sons with them entered the ark, <sup>14</sup> they and every beast, according to its kind, and all the livestock according to their kinds, and every creeping thing that creeps on the earth, according to its kind, and every bird, according to its kind, every winged creature. <sup>15</sup> They went into the ark with Noah, two and two of all flesh in which there was the breath of life. <sup>16</sup> And those that entered, male and female of all flesh, went in as God had commanded him. And the LORD shut him in.*



# Genesis 7:17-20 – The Extent of the Flood

*<sup>17</sup> For forty days the flood kept coming on the earth, and as the waters increased they lifted the ark high above the earth. <sup>18</sup> The waters rose and increased greatly on the earth, and the ark floated on the surface of the water. <sup>19</sup> They rose greatly on the earth, and all the high mountains under the entire heavens were covered. <sup>20</sup> The waters rose and covered the mountains to a depth of more than twenty feet.*

# Genesis 7:17-20 – The Extent of the Flood

*<sup>17</sup> The flood continued forty days on the earth. The waters increased and bore up the ark, and it rose high above the earth. <sup>18</sup> The waters prevailed and increased greatly on the earth, and the ark floated on the face of the waters. <sup>19</sup> And the waters prevailed so mightily on the earth that all the high mountains under the whole heaven were covered. <sup>20</sup> The waters prevailed above the mountains, covering them fifteen cubits deep.*

# Genesis 7:21-24 – The Destruction Caused By the Flood

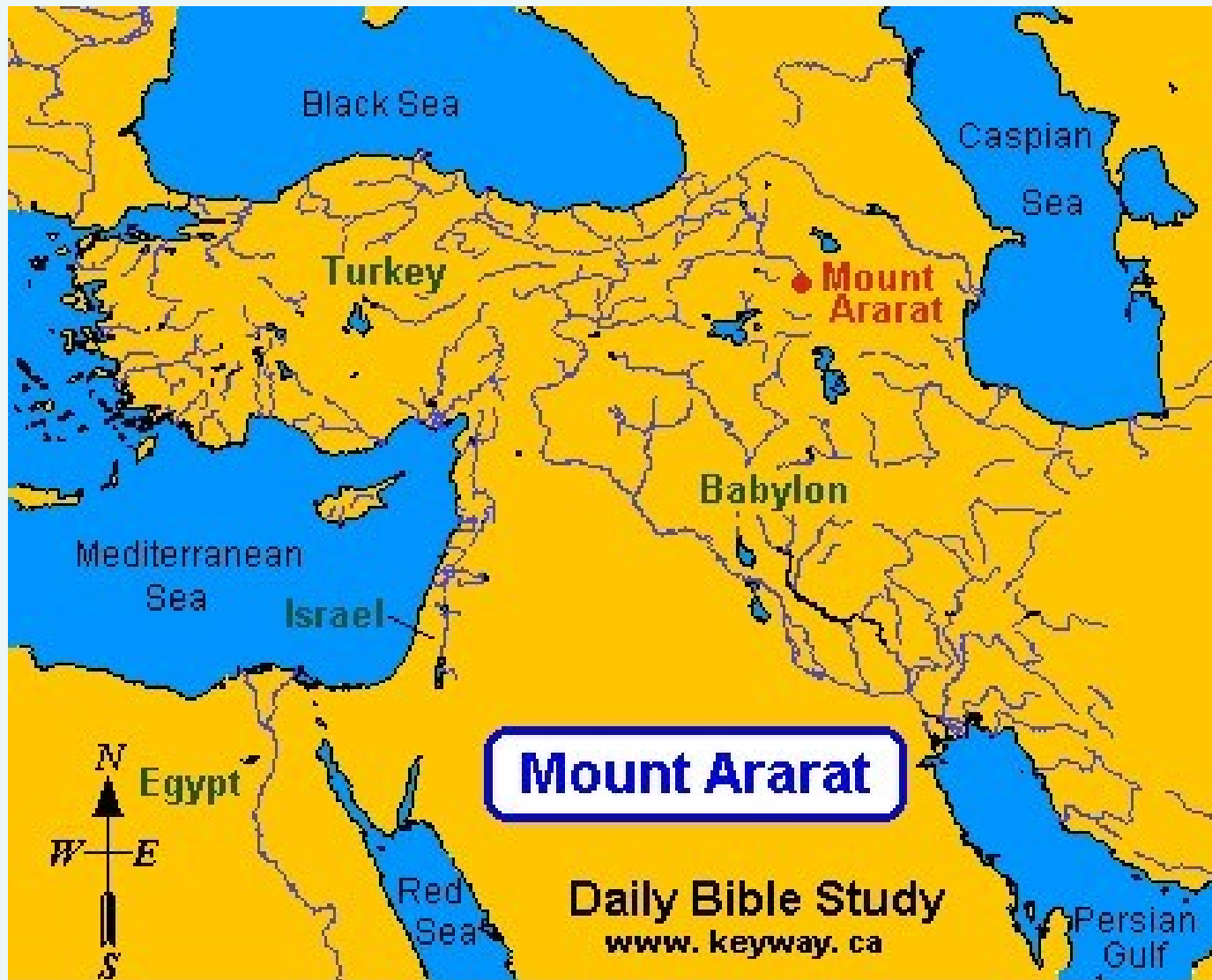
*<sup>21</sup> And all flesh died that moved on the earth, birds, livestock, beasts, all swarming creatures that swarm on the earth, and all mankind. <sup>22</sup> Everything on the dry land in whose nostrils was the breath of life died. <sup>23</sup> He blotted out every living thing that was on the face of the ground, man and animals and creeping things and birds of the heavens. They were blotted out from the earth. Only Noah was left, and those who were with him in the ark. <sup>24</sup> And the waters prevailed on the earth 150 days.*



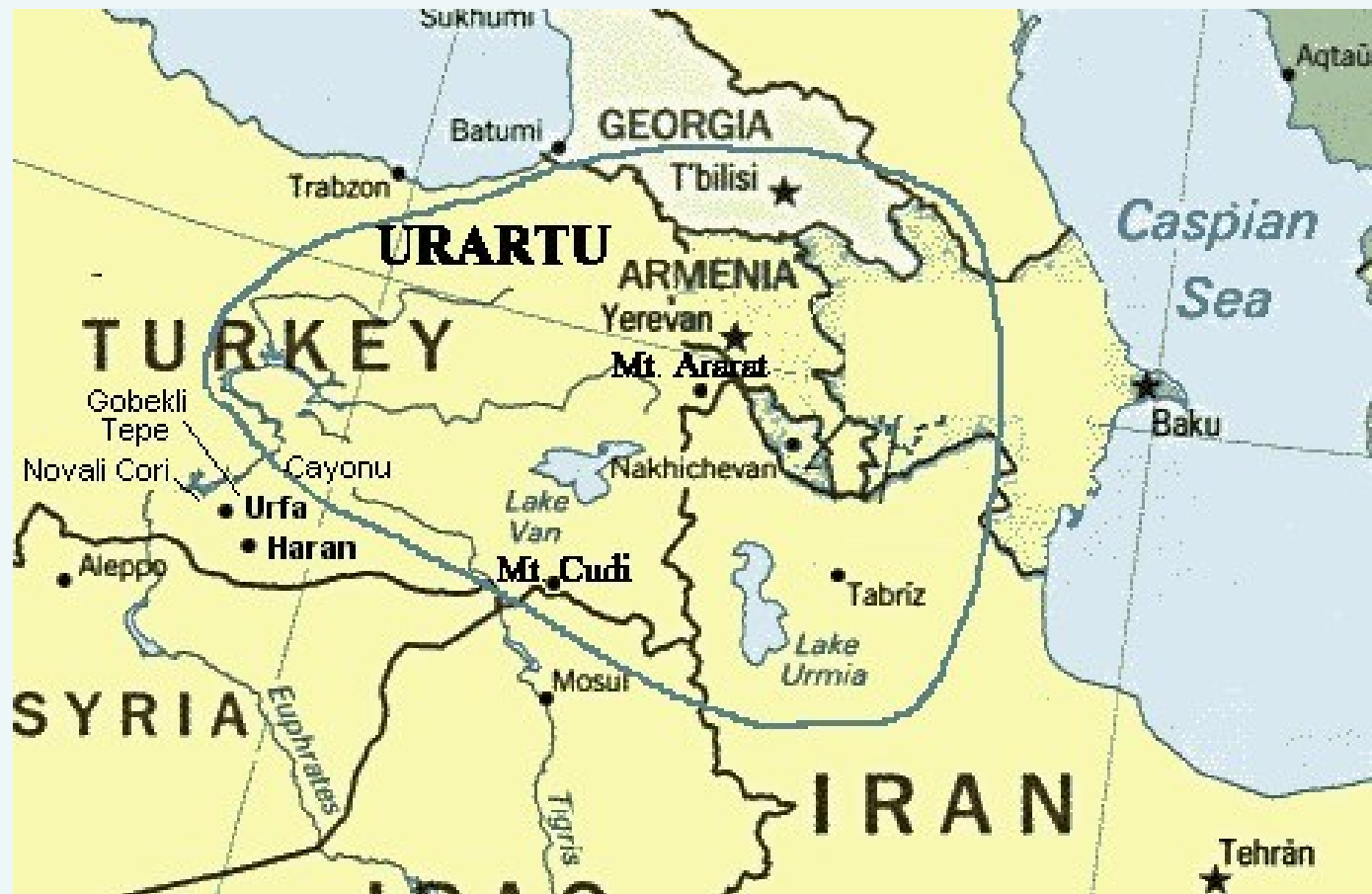
# Genesis 8:1-4 – The Rain Stops and the Waters Begin to Recede

*<sup>1</sup> But God remembered Noah and all the wild animals and the livestock that were with him in the ark, and he sent a wind over the earth, and the waters receded. <sup>2</sup> Now the springs of the deep and the floodgates of the heavens had been closed, and the rain had stopped falling from the sky. <sup>3</sup> The water receded steadily from the earth. At the end of the hundred and fifty days the water had gone down, <sup>4</sup> and on the seventeenth day of the seventh month the ark came to rest on the mountains of Ararat.*

# Gen 8:4 – “The Mountains of Ararat”



# Gen 8:4 – “The Mountains of Ararat”





# Time Periods of the Flood

DATE		NUMBER OF DAYS	EVENT	GENESIS REFERENCE
Month 2 Day 10		waited 7	Entered the ark.	7:4, 10
Water Prevailed 150 days (7:24)	*Month 2 Day 17	lasted 40	Rain began.	7:4-6, 11, 12
	Month 3 Day 26	end of 40	Rain stopped.	7:4, 11
	*Month 7 Day 17	end of 150	Ark rested on Ararat.	7:24; 8:4
Water Receded 150 days (8:3)	*Month 10 Day 1	waited 40	Tops of mountains visible.	8:5-6
	Month 11 Day 10	waited 1	Raven sent.	8:7
	Month 11 Day 11	waited 7	Dove sent; returns.	8:8-9
	Month 11 Day 19	waited 7	Dove sent; returns with olive leaf.	8:10-11
	Month 11 Day 27		Dove sent; does not return.	8:12
	Month 12 Day 17	end of 150	Water fully receded.	8:3
Drying of Earth	*Month 1 Day 1		Covering of ark removed.	8:13
	*Month 2 Day 27		Earth dry; left ark.	8:14-19

\* Date notation specifically mentioned in Scripture (All others derived)

# Genesis 8:5-12 – The Waters Continue to Recede

*<sup>5</sup> The waters continued to recede until the tenth month, and on the first day of the tenth month the tops of the mountains became visible. <sup>6</sup> After forty days Noah opened the window he had made in the ark <sup>7</sup> and sent out a raven, and it kept flying back and forth until the water had dried up from the earth. <sup>8</sup> Then he sent out a dove to see if the water had receded from the surface of the ground. <sup>9</sup> But the dove could find no place to set its feet because there was water over all the surface of the earth; so it returned to Noah in the ark. He reached out his hand and took the dove and brought it back to himself in the ark. <sup>10</sup> He waited seven more days and again sent out the dove from the ark. <sup>11</sup> When the dove returned to him in the evening, there in its beak was a freshly plucked olive leaf! Then Noah knew that the water had receded from the earth. <sup>12</sup> He waited seven more days and sent the dove out again, but this time it did not return to him.*

# Genesis 8:13-19 – Noah Comes Out of the Ark

*<sup>13</sup> By the first day of the first month of Noah's six hundred and first year, the water had dried up from the earth. Noah then removed the covering from the ark and saw that the surface of the ground was dry. <sup>14</sup> By the twenty-seventh day of the second month the earth was completely dry. <sup>15</sup> Then God said to Noah, <sup>16</sup> "Come out of the ark, you and your wife and your sons and their wives. <sup>17</sup> Bring out every kind of living creature that is with you-- the birds, the animals, and all the creatures that move along the ground-- so they can multiply on the earth and be fruitful and increase in number upon it." <sup>18</sup> So Noah came out, together with his sons and his wife and his sons' wives. <sup>19</sup> All the animals and all the creatures that move along the ground and all the birds-- everything that moves on the earth-- came out of the ark, one kind after another.*

# Genesis 8:20-22 – God Determines Never to Flood the Entire Earth Again

*<sup>20</sup> Then Noah built an altar to the LORD and, taking some of all the clean animals and clean birds, he sacrificed burnt offerings on it. <sup>21</sup> The LORD smelled the pleasing aroma and said in his heart: "Never again will I curse the ground because of man, even though every inclination of his heart is evil from childhood. And never again will I destroy all living creatures, as I have done. <sup>22</sup> "As long as the earth endures, seedtime and harvest, cold and heat, summer and winter, day and night will never cease."*



# Genesis 9:1-7 – God Gives Noah Instructions for the New World

*Then God blessed Noah and his sons, saying to them, "Be fruitful and increase in number and fill the earth. <sup>2</sup> The fear and dread of you will fall upon all the beasts of the earth and all the birds of the air, upon every creature that moves along the ground, and upon all the fish of the sea; they are given into your hands. <sup>3</sup> Everything that lives and moves will be food for you. Just as I gave you the green plants, I now give you everything. <sup>4</sup> "But you must not eat meat that has its lifeblood still in it. <sup>5</sup> And for your lifeblood I will surely demand an accounting. I will demand an accounting from every animal. And from each man, too, I will demand an accounting for the life of his fellow man. <sup>6</sup> "Whoever sheds the blood of man, by man shall his blood be shed; for in the image of God has God made man. <sup>7</sup> As for you, be fruitful and increase in number; multiply on the earth and increase upon it."*

# **Genesis 9:8-11 – God Covenants With Noah Never Again to Destroy the Earth by Flood**

*<sup>8</sup> Then God said to Noah and to his sons with him: <sup>9</sup> "I now establish my covenant with you and with your descendants after you <sup>10</sup> and with every living creature that was with you-- the birds, the livestock and all the wild animals, all those that came out of the ark with you-- every living creature on earth. <sup>11</sup> I establish my covenant with you: Never again will all life be cut off by the waters of a flood; never again will there be a flood to destroy the earth."*

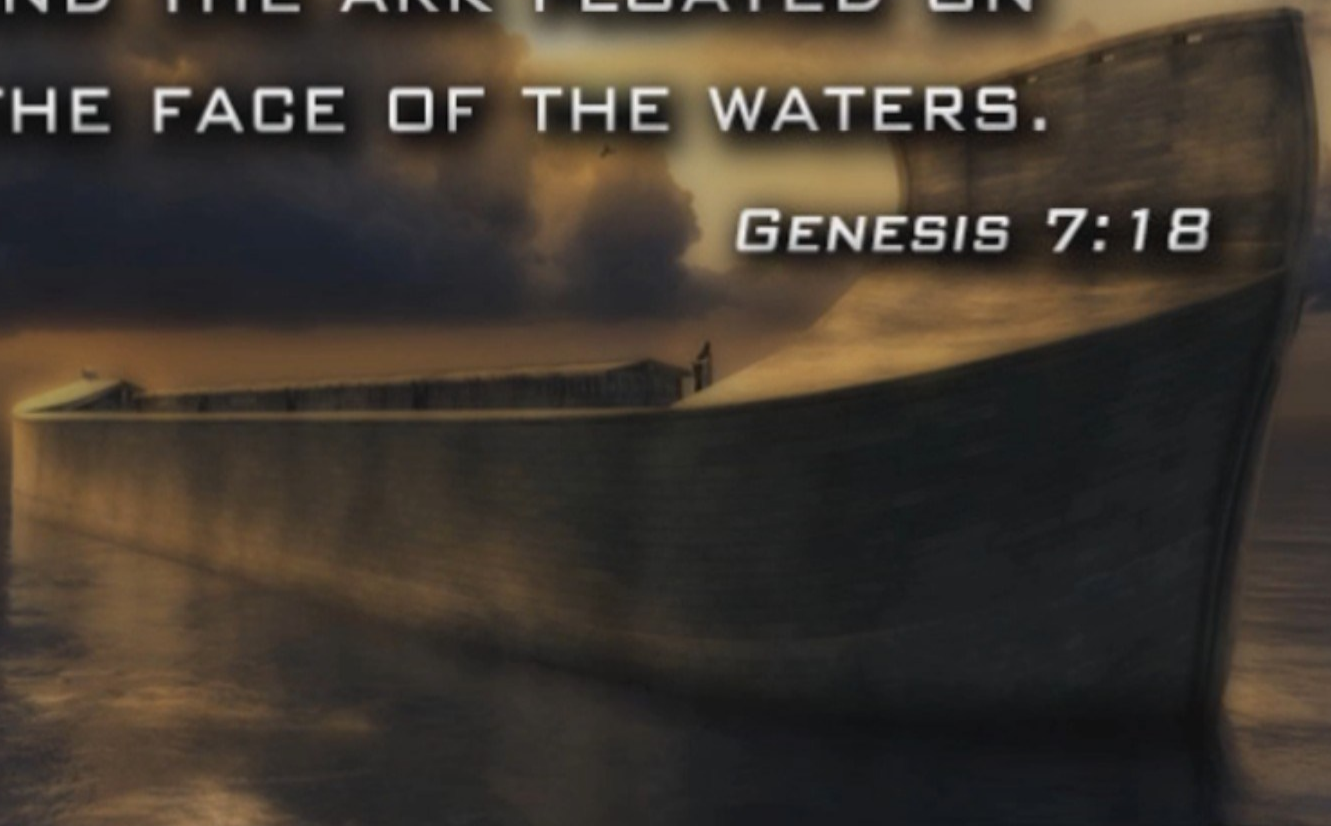
# **Genesis 9:12-17 – God Gives the Rainbow as a Sign of His Covenant With Noah**

*<sup>12</sup> And God said, "This is the sign of the covenant I am making between me and you and every living creature with you, a covenant for all generations to come: <sup>13</sup> I have set my rainbow in the clouds, and it will be the sign of the covenant between me and the earth. <sup>14</sup> Whenever I bring clouds over the earth and the rainbow appears in the clouds, <sup>15</sup> I will remember my covenant between me and you and all living creatures of every kind. Never again will the waters become a flood to destroy all life. <sup>16</sup> Whenever the rainbow appears in the clouds, I will see it and remember the everlasting covenant between God and all living creatures of every kind on the earth." <sup>17</sup> So God said to Noah, "This is the sign of the covenant I have established between me and all life on the earth."*

# The Flood

THE WATERS PREVAILED AND  
INCREASED GREATLY ON THE EARTH,  
AND THE ARK FLOATED ON  
THE FACE OF THE WATERS.

*GENESIS 7:18*





# Time Periods of the Flood

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# •Time Periods of the Flood

## Statistics

One month equals 30 days.

Total time elapsed in the ark = 1 year, 17 days =  
 $360 + 17 = 377$  days

7 days waiting + 150 days + 150 days + 70 days = 377 days  
water prevailing water receding earth drying

# The Bible Clearly Teaches That the Flood Was Universal and Global

- **Universal**: Every **Living, Breathing** Creature was **Destroyed by the Flood** - with the exception of those creatures that were preserved on the ark with Noah, his three sons and their wives.
  - **Note**: The living things that were completely destroyed by the flood involved specifically those animals that lived on "dry land" and "breathed" (Gen.7:22). Animals that lived in the water (e.g. fish) could survive outside the ark, though, no doubt, in the turbulence of the flood, many fish died as well.
- **Global**: Every High Mountain on the Face of the Earth Was **Covered** By the Waters of the Flood

# The Flood Was Universal - Every Living, Breathing Creature was Destroyed by the Flood

- **Genesis 6:17-19** - *For behold, I will bring a flood of waters upon the earth to destroy all flesh in which is the breath of life under heaven. **Everything** that is on the earth shall die.<sup>18</sup> But I will establish my covenant with you, and you shall come into the ark, you, your sons, your wife, and your sons' wives with you.<sup>19</sup> And of every living thing of all flesh, you shall bring two of every sort into the ark to keep them alive with you. They shall be male and female.*



# The Flood Was Universal - Every Living, Breathing Creature was Destroyed by the Flood

- **Genesis 7:21-23** - *And all flesh died that moved on the earth, birds, livestock, beasts, all swarming creatures that swarm on the earth, and all mankind. <sup>22</sup> Everything on the dry land in whose nostrils was the breath of life died. <sup>23</sup> He blotted out every living thing that was on the face of the ground, man and animals and creeping things and birds of the heavens. They were blotted out from the earth. Only Noah was left, and those who were with him in the ark.*

# The Flood Was Universal - Every Living, Breathing Creature was Destroyed by the Flood

- **Genesis 9:11,15** - *I establish my covenant with you, that never again shall **all flesh** be cut off by the waters of the flood, and never again shall there be a flood to destroy the earth... I will remember my covenant that is between me and you and every living creature of all flesh. And the waters shall never again become a flood to destroy **all flesh**.*



# **The Flood Was Universal - Every Living, Breathing Creature was Destroyed by the Flood**

- **1 Peter 3:20** - *...when God's patience waited in the days of Noah, while the ark was being prepared, in which a few, that is, eight persons, were brought safely through water.*
- **2 Peter 2:5** - *...[God] did not spare the ancient world, but preserved Noah, a herald of righteousness, with seven others, when he brought a flood upon the world of the ungodly;*
- **2 Peter 3:6** - *... the world that then existed was deluged with water and perished.*

# The Flood Was Global - Every High Mountain on the Face of the Earth Was Covered By the Waters of the Flood

- **Genesis 7:18-20** - *The waters prevailed and increased greatly on the earth, and the ark floated on the face of the waters. <sup>19</sup> And the waters prevailed so mightily on the earth that all the high mountains under the whole heaven were covered. <sup>20</sup> The waters prevailed above the mountains, covering them fifteen cubits deep.*



# The Flood Was Global - Every High Mountain on the Face of the Earth Was Covered By the Waters of the Flood

- **Psalm 104:5-9** - *He set the earth on its foundations, so that it should never be moved. <sup>6</sup> You covered it with the deep as with a garment; the waters stood above the mountains. <sup>7</sup> At your rebuke they fled; at the sound of your thunder they took to flight. <sup>8</sup> The mountains rose, the valleys sank down to the place that you appointed for them. <sup>9</sup> You set a boundary that they may not pass, so that they might not again cover the earth.*

# The Flood Was Global - Every High Mountain on the Face of the Earth Was Covered By the Waters of the Flood

- **Isaiah 54:9** - *This is like the days of Noah to me: as I swore that the waters of Noah should no more go over the earth, so I have sworn that I will not be angry with you, and will not rebuke you.*





The background of the image is a dramatic, dark scene of a stormy sea. A wooden ark is visible in the lower half, floating on the turbulent water. The sky is dark and filled with rain, with a bright lightning bolt striking down in the upper left corner. The overall atmosphere is one of a biblical flood.

**Where Did All the  
Water For the  
Flood Come  
From?**



# Where Did All the Water For the Flood Come From?

- **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.*

## Two Sources:

### 1. The Fountains of the Great Deep

- May Have Lasted For **150** days
- Came from **within** the earth
- Probably Involved a Great Deal of **Volcanic** Activity

### 2. The “Windows” of the Heavens

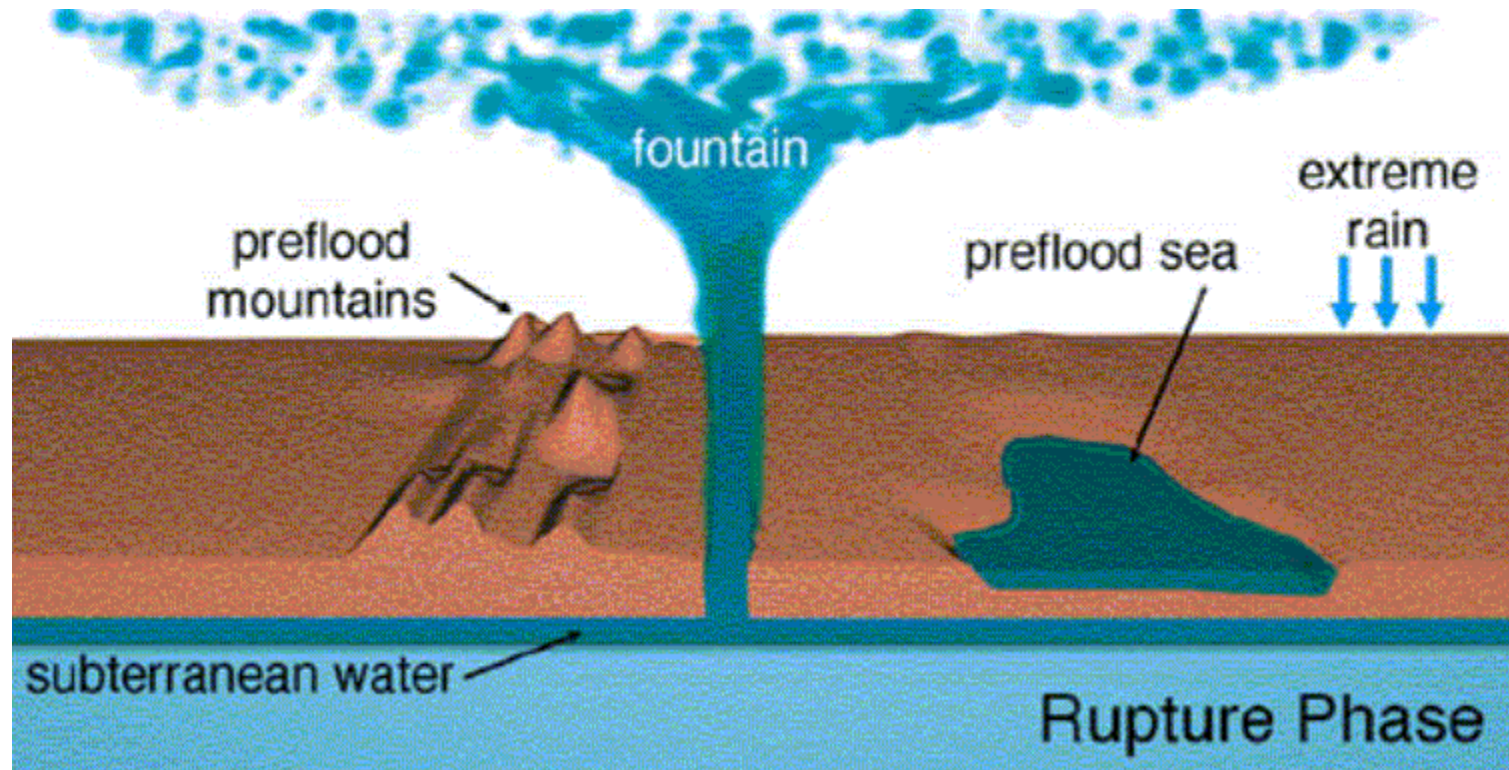
- An Extraordinary Rain
- Lasted for "**40** days and **40** nights"

# What Are the Fountains of the Deep?

- Referred to twice in the flood account:
  - Genesis 7:11 – ... *the fountains of the great deep burst forth...*
  - Genesis 8:2 - *The fountains of the deep... were closed...*
- As best we can tell, the “fountains of the great deep” seem to be underground water sources that existed deep within the earth prior to the flood.
- These springs are said to “**burst forth**” which seems to imply a violent release of the water as it breaks through the ground.
- Note: Given the number of volcanic rocks that we see interspersed between the layers in the rocks laid down by the Flood – it seems likely that the bursting forth of these fountains involved an large number **volcanic eruptions** as well.



# Fountains of the Deep Burst Forth?



Taken from Walt Brown, Ph.D., *In the Beginning – Compelling Evidence for Creation and the Flood*, 7<sup>th</sup> Edition, 2001, p.101

Available at [www.creationscience.com](http://www.creationscience.com)

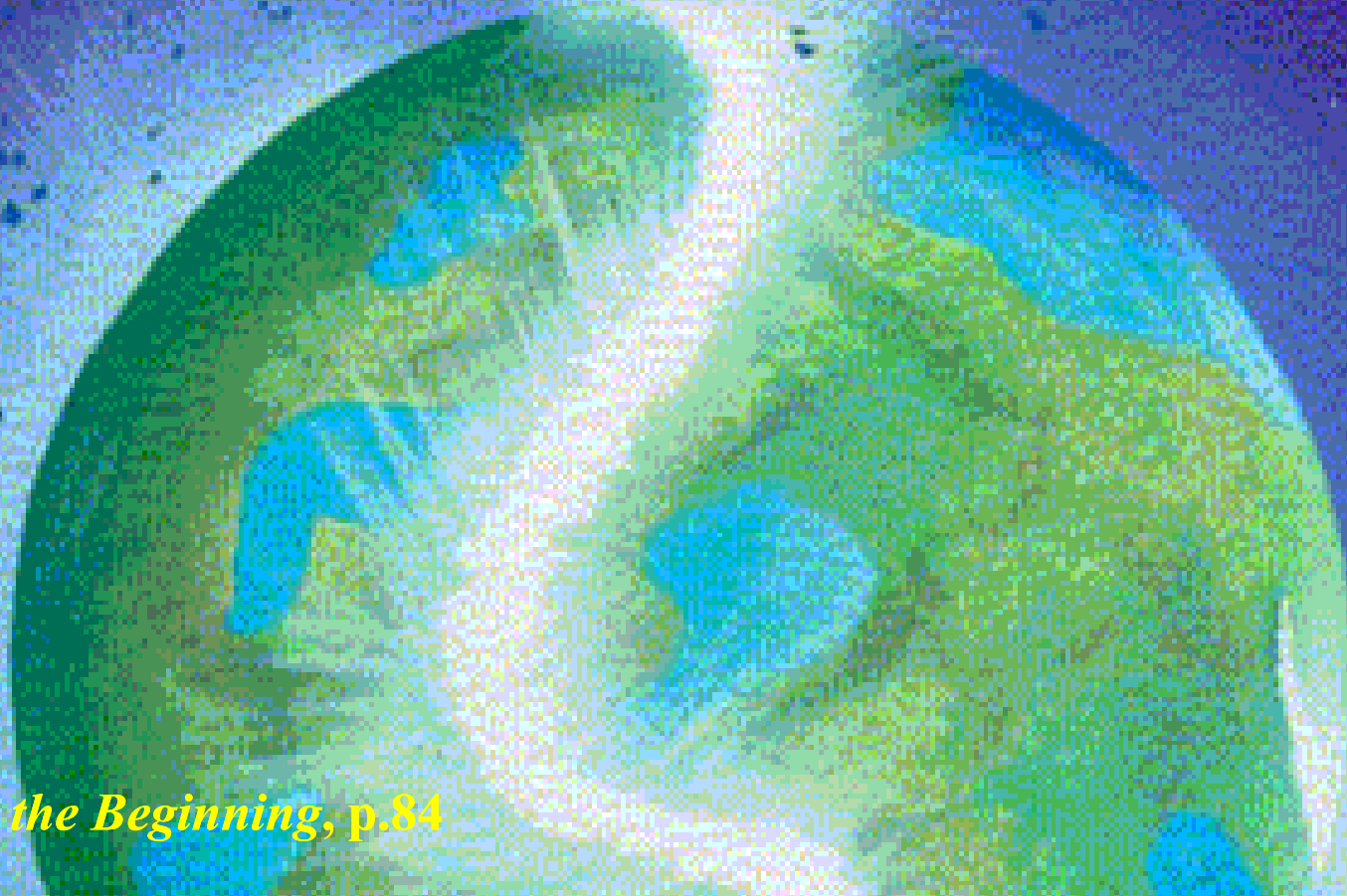
# **Springs (or Fountains) of the Deep Burst Forth?**



**Brown, *In the Beginning*, p.101**

# **Springs (or Fountains) of the Deep Burst Forth?**

**Brown, *In the Beginning*, p.84**





# What are the Windows of the Heavens?

- The other source of the waters for Noah's Flood was “the windows of the heavens.” Genesis 7:12 says that it rained for 40 days and 40 nights continuously.
- Genesis 2:5 tells us that there was no rain before man was created. Because of this, some have suggested that there was **no rainfall** anywhere on the earth **until the time of the Flood**. However, **the Bible does not actually say this**, so we really don't know for sure.

# What are the Windows of the Heavens?

- The expression “windows of the heavens” is used twice in reference to the flood :
  - Genesis 7:11 – ... *the windows of the heavens were opened*...
  - Genesis 8:2 - ... *the windows of the heavens were closed*...
- This expression is **only used four other times in the Old Testament**:
  - **Twice** in 2 Kings 7:2 and 19, referring to God's miraculous intervention in sending rain
  - **Once** in Isaiah 24:18 to refer to an outpouring of God's judgment
  - **Once** in Malachi 3:10, where the phrase is used again of God intervening to pour out abundant blessings on his people
- Here in Genesis, the expression seems to refer to an **extraordinary rain** poured out by God during the first 40 days of the flood.



# What was the water source for this extraordinary “windows of the heavens” rainfall?

- *“If all the water in our present atmosphere were suddenly precipitated, it would suffice to cover the ground to an average depth of less than two inches” (Whitcomb and Morris, The Genesis Flood, 1961, p.121)*
- So how was the rain able to continue falling for 40 days and nights during the flood?
- One possibility is that God miraculously created water for the rain throughout the 40 days and nights.
- But as Morris observes: *“There is no question that God could have accomplished the entire event miraculously (say by special creation of the waters of the Flood and then by special ‘uncreation’ of them when it was over), but this would be unnecessary and therefore theologically unlikely” (Henry Morris, The Genesis Record, p.195)*

# The Water Canopy Theory?

- In 1874, Isaac Vail (1840-1912) proposed (for the first time) a theory that has come to be known as the "**Water Canopy Theory**". (Walt Brown, *In the Beginning*, Seventh Edition, p.260)
- This theory was later popularized by Whitcomb and Morris in their book *The Genesis Flood* (1961). (Brown, p.266)





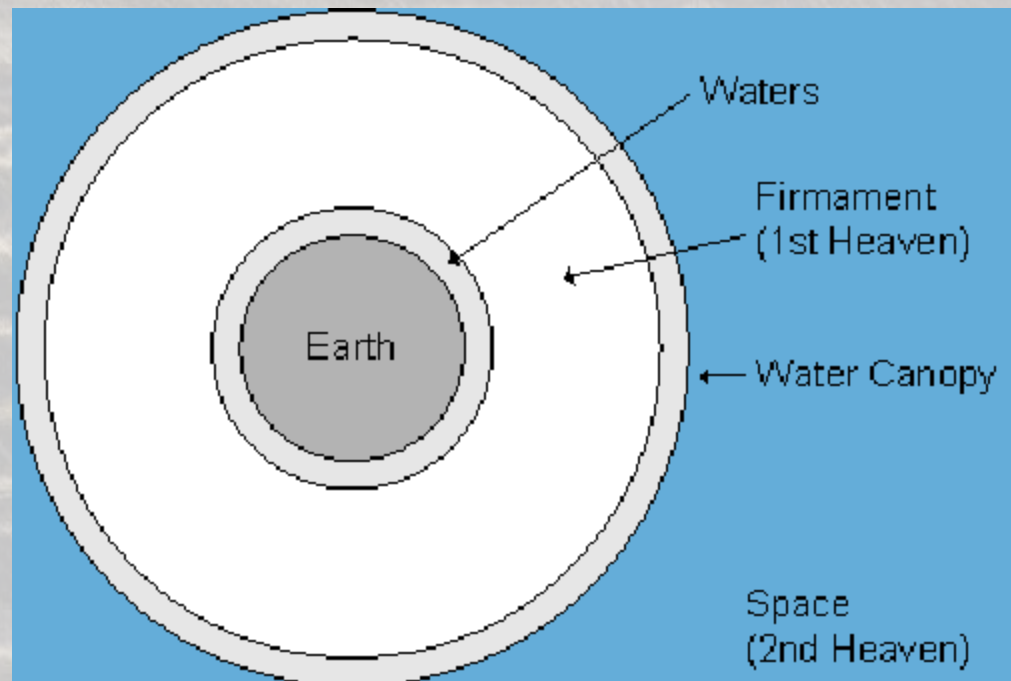
# The Water Canopy Theory?

- Whitcomb and Morris have argued that, prior to the flood, the earth was surrounded by a "water canopy" and that God opened the floodgates of heaven by causing the water canopy to fall to the earth.
- To support this idea they point to Genesis 1:6-8 where it says that on the second day of creation God separated the waters that were on the earth by an "expanse" (Hebrew: *raqiya*) or "firmament".
  - Genesis 1:6-8 – *And God said, "Let there be an expanse in the midst of the waters, and let it separate the waters from the waters." <sup>7</sup> And God made the expanse and separated the waters that were under the expanse from the waters that were above the expanse. And it was so. <sup>8</sup> And God called the expanse Heaven. And there was evening and there was morning, the second day.*
- They reason that "expanse" in this text refers to the atmosphere, because it says a few verses later that birds fly in the expanse (Genesis 1:20).



# The Water Canopy Theory?

Thus they envision a literal blanket of water surrounding the earth (not to scale) :



# Problems With the Canopy Theory

- In recent years many traditional supporters of the Water Canopy Theory, such as Larry Vardiman (with ICR) have discovered a problem with the canopy theory: The “**greenhouse effect**” caused by a large water canopy would cause the surface of the earth to become intolerably hot!
- Using computer models, Vardiman tried to solve the problem, but found that he had to drastically reduce the amount of water vapor in the canopy in order to make it work.
- It seems that **the maximum amount of water** that could be held in such a canopy without causing things on the earth to get too hot would be the rain equivalent of about **6.5 feet** of water.
- Obviously such a reduced canopy would not significantly contribute to the 40 days and nights of rain at the beginning of the flood!



# Problems With the Canopy Theory

- Many creation scientists are now either abandoning the water vapor canopy model or no longer see any need for such a concept, particularly if other reasonable mechanisms could have supplied the rain for the flood.



Information excerpted from:

<http://www.answersingenesis.org/home/area/answersbook/flood12.asp#2>

# So if there is no water canopy around the earth, what is Genesis 1:6-8 talking about?

- **Genesis 1:6-8** – *And God said, "Let there be an expanse in the midst of the waters, and let it separate the waters from the waters."* <sup>7</sup> *And God made the expanse and separated the waters that were under the expanse from the waters that were above the expanse. And it was so.* <sup>8</sup> *And God called the expanse Heaven. And there was evening and there was morning, the second day.*
- **Some other recent suggestions:**
  - **Walt Brown:**
    - **Expanse** = the earth's outer crust
    - **Waters below** the expanse = subterranean water
    - **Waters above** the expanse = surface waters (which became seas, lakes, etc. when the dry land appeared on day 3)
  - **Dr. Russell Humphreys:**
    - **Expanse** = interstellar space (the abode of the sun moon and stars – Genesis 1:17)
    - **Waters below** the expanse = surface waters on the earth (which became seas, lakes, etc. when the dry land appeared on day 3)
    - **Waters above** the expanse = water beyond the stars at the edge of the universe!



# So if there is no water canopy around the earth, what is Genesis 1:6-8 talking about?

- **Genesis 1:6-8** – *And God said, "Let there be an expanse in the midst of the waters, and let it separate the waters from the waters." <sup>7</sup> And God made the expanse and separated the waters that were under the expanse from the waters that were above the expanse. And it was so. <sup>8</sup> And God called the expanse Heaven. And there was evening and there was morning, the second day.*
- **The Traditional View** – Calvin (1554), Gill (1810), Keil and Delitzsch (1890?) and others:
  - **Expanse** = the atmosphere
  - **Waters below** the expanse = surface waters on the earth (which became seas, lakes, etc. when the dry land appeared on day 3)
  - **Waters above** the expanse = water stored in the clouds
- While the other views of this passage are interesting and worthy of consideration, the traditional view seems to be the most straightforward and seems to have the least problems!

**So if there is no water canopy around the earth, what was the water source for this extraordinary "floodgates of the heavens" rainfall?**

- The most reasonable suggestion seems to be that the **water** (along with rocks and mud) that burst forth **from the fountains of the deep** with incredibly violent force **went far up into the atmosphere** and **fell** back to the earth **as rain**.





**Where Did All the  
Water Go After  
the Flood?**





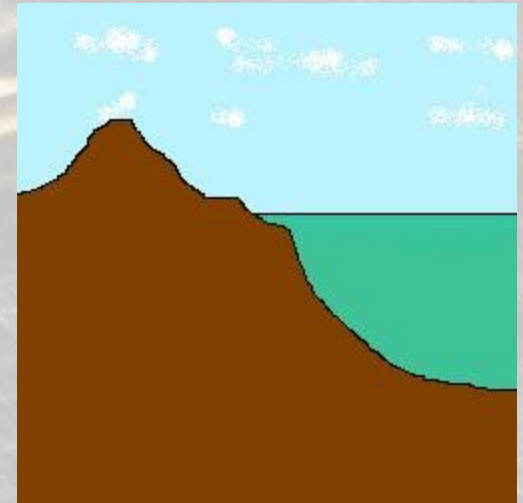
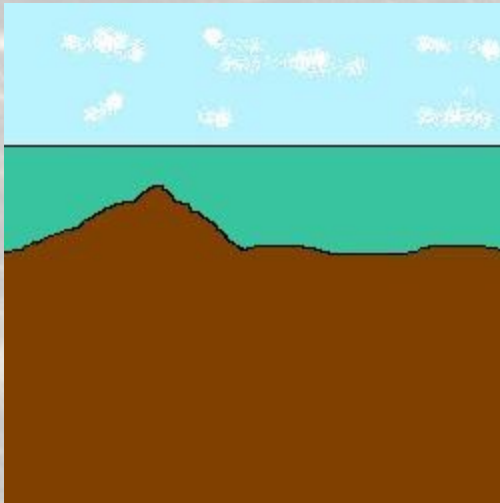
# Where Did All the Water Go After the Flood?

**Psalm 104:6** *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.*

**If this passage refers to the process that God used at the time of Noah's flood, then it would seem to indicate that the bulk of the waters from the flood ended up in today's ocean basins.**

# Where Did All the Water Go After the Flood?

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# Where Did All the Water Go After the Flood?

- **Note: On our present earth, without mountains or sea basins, water would cover the whole earth to a depth of 2.7 km, or 1.7 miles (not to scale):**





The background image is a dramatic, dark, and stormy scene. It depicts a turbulent sea with dark, churning waves. A single, long, light-colored wooden plank floats horizontally across the middle of the frame. The sky is dark and ominous, with a bright, jagged lightning bolt striking down from the upper left corner. The overall atmosphere is one of chaos and destruction, consistent with the theme of a global flood.

# **Evidence of a Global Flood**



# Evidence of a Global Flood

- As we look around our world, we find a great deal of evidence for the global flood talked about in scripture:
  - Large **Sedimentary** Deposits containing the fossilized remains of dead plants and animals – including fossils of sea creatures on top of the highest mountains!



# Normandy, France





# The White Cliffs of Dover, England



# Mount Saint Helens

## Rock Layers Formed Rapidly



Evolutionists tell us that it takes **millions of years** for such rock layers to form - but the layers pictured above were produced within a matter of **hours** during the Mount Saint Helens volcano eruption on June 12, 1980.

(<http://www.answersingenesis.org/docs/456.asp>)



# Evidence of a Global Flood

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  - Large **Sedimentary** Deposits containing the fossilized remains of dead plants and animals – including fossils of sea creatures on top of the highest mountains!
  - **Large Canyons** carved out by vast amounts water and mud as it ran rapidly back into the seas after the flood.



# The Grand Canyon



Evolutionists tell us that it took **millions of years** for the river pictured above to carve out this canyon.

# Mount Saint Helens

## Small Model of the Grand Canyon?



- But the 100-foot-deep Engineer's Canyon on the north fork of the Toutle River is like a small scale model of the Grand Canyon.
- And it was carved very **quickly** by a catastrophic mud flow produced by **one** volcano eruption (Mt St Helens)



# Mount Saint Helens – Mud Flow





A high altitude photo of the mud flow that carved Engineer's Canyon on March 19, 1982



# Evidence of a Global Flood

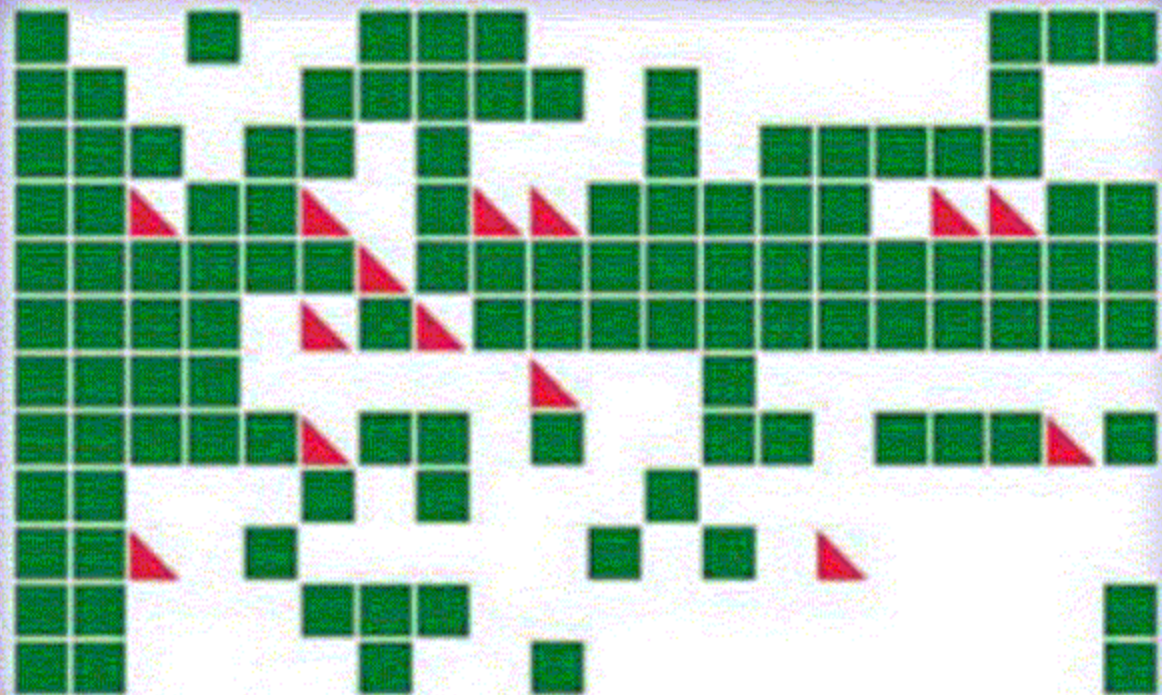
- As we look around our world, we find a great deal of evidence for the global flood talked about in scripture:
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  - Flood **Legends** in Cultures Throughout the World

# Flood Traditions

-  Partial representation of Biblical idea  
 Full representation of Biblical idea

Assyrio-Babylonia 1  
 Assyrio-Babylonia 2  
 Persia  
 Syria  
 Asia Minor  
 Greece  
 Egypt  
 Italy  
 Lithuania  
 Russia  
 China  
 India  
 Cree (Canada)  
 Cherokee (US)  
 Papago (Mexico)  
 Aztecs (Mexico)  
 Peru  
 Leeward Islands  
 Fiji Islands  
 Hawaii

Man in transgression  
 Divine destruction  
 Favored family  
 Ark provided  
 Destruction by water  
 Humans saved  
 Animals saved  
 Universal Destruction  
 Landing on mountain  
 Birds sent out  
 Survivors worship  
 Divine favor on saved





# Flood Legends

Evidences of a worldwide flood can be found in the more than 270 flood stories and historic records found in many parts of the world. Flood legends are common in the folk tales of many other countries. Their various interpretations reflect the way details may change when stories are told from one generation to another because of the absence of written records available to them. Let's look at just a few of these stories.

## Hawaii

Long after the death of Kuniuhonna, the first man, the world became a wicked, terrible place to live. There was one good man left; his name was Nu-u.

He made a great canoe with a house on it and filled it with animals. The waters came up over all the earth and killed all the people. Only Nu-u and his family were saved.





## Hawaii

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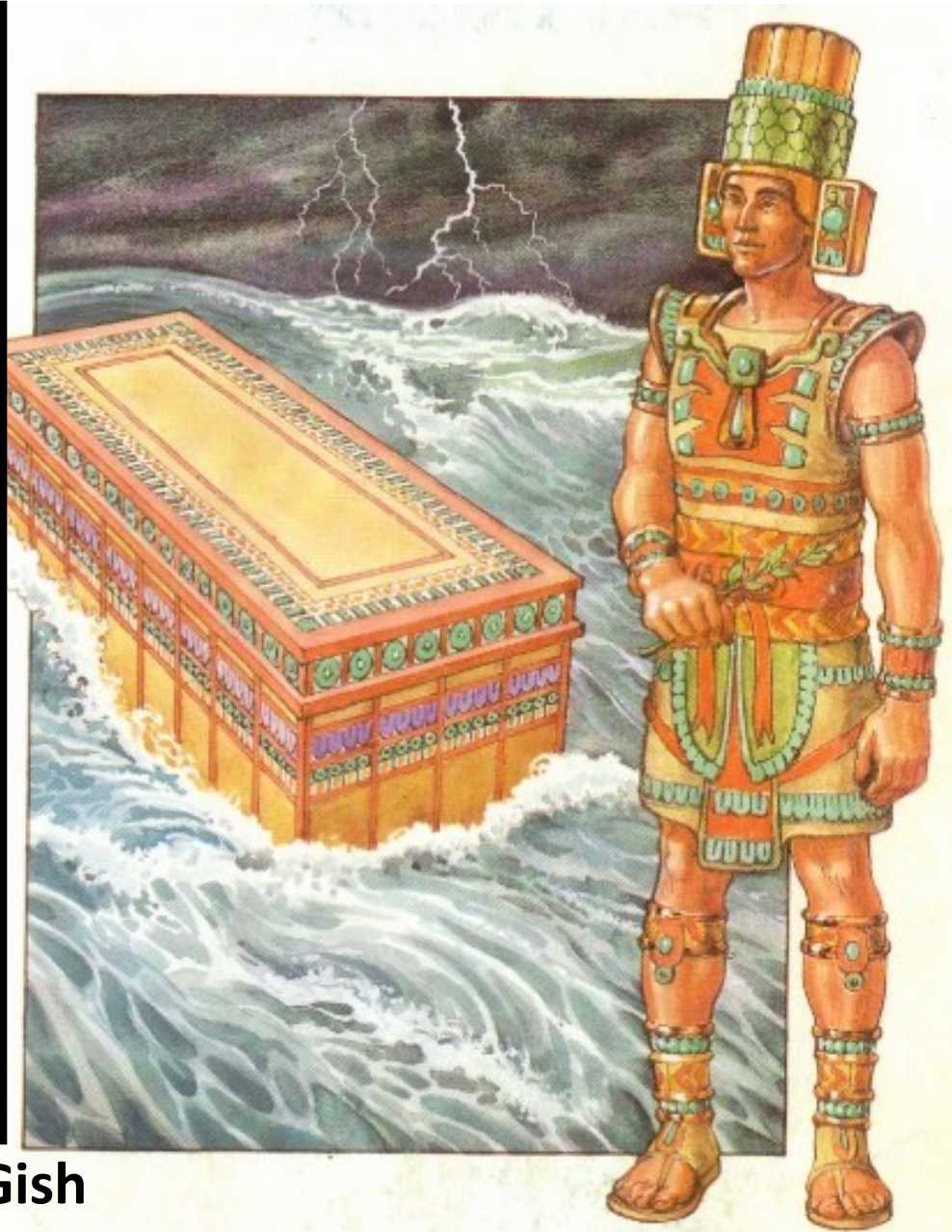
One ancient  
Chinese classic  
called the  
“Hihking” tells the  
story of **Fuhi**,  
whom the Chinese  
consider to be **the**  
**father of their**  
**civilization**





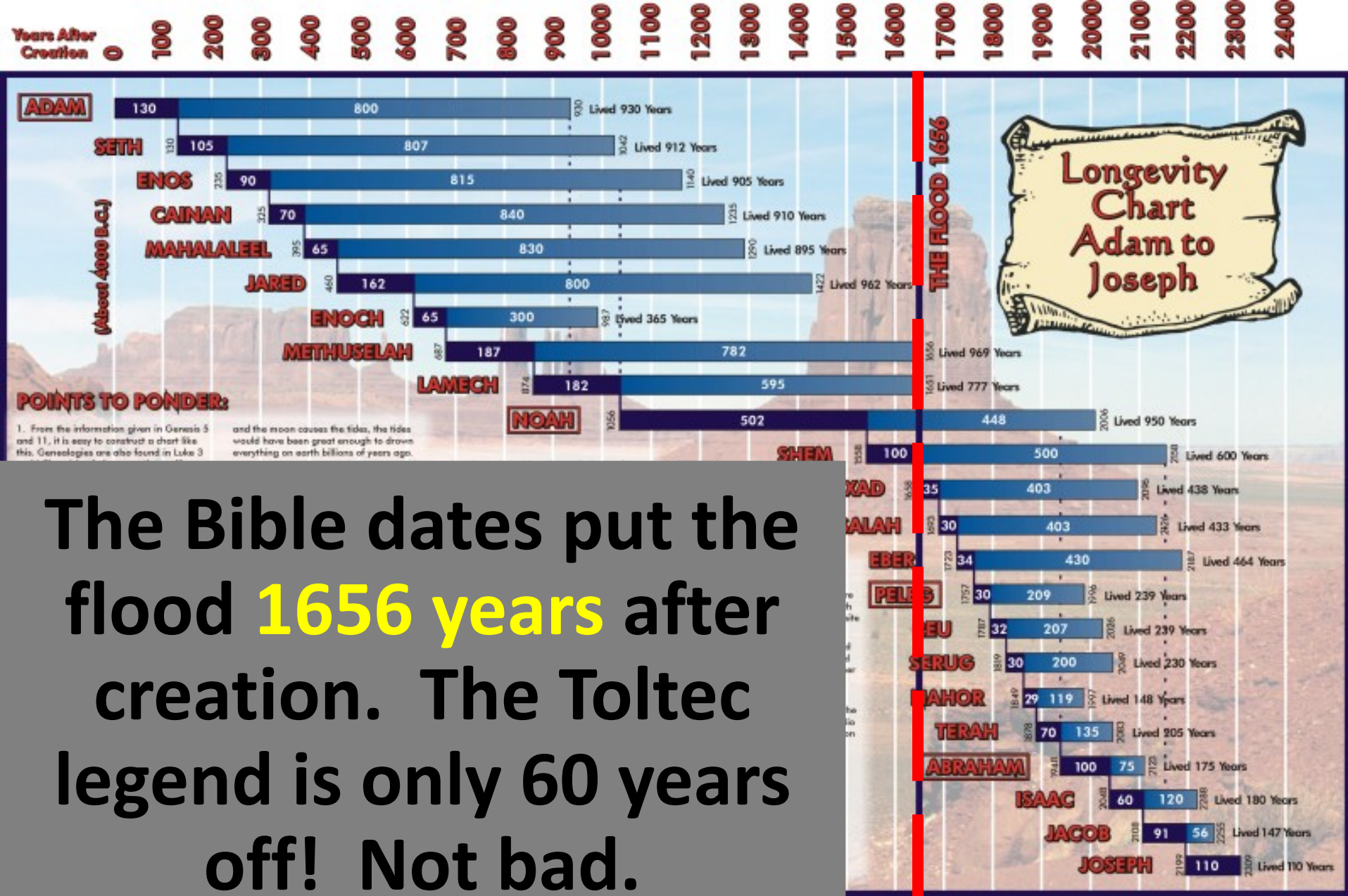
This history records that **Fuhi, his wife, three sons and three daughters** escaped a great flood. He and his family were the **only people** alive on earth. After the great flood they **repopulated the world.**

The Toltec Indians of ancient Mexico said, “the first world lasted 1716 years and was destroyed by a great flood.” Only one family named Coxcox survived.



*Dinosaurs by Design* by Duane Gish





The Bible dates put the flood **1656 years** after creation. The Toltec legend is only 60 years off! Not bad.

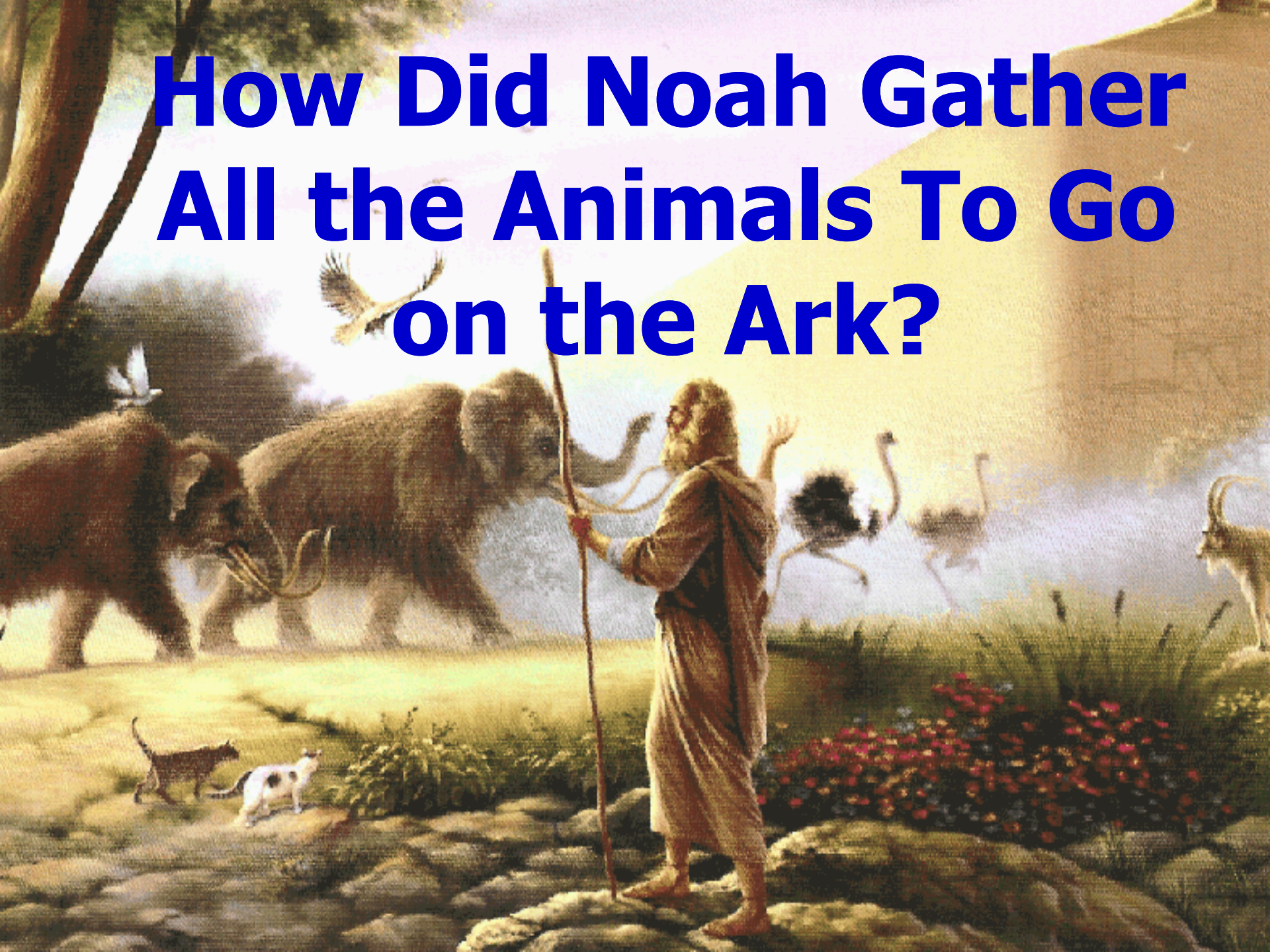




# **Questions That Are Often Asked About Noah and the Ark**



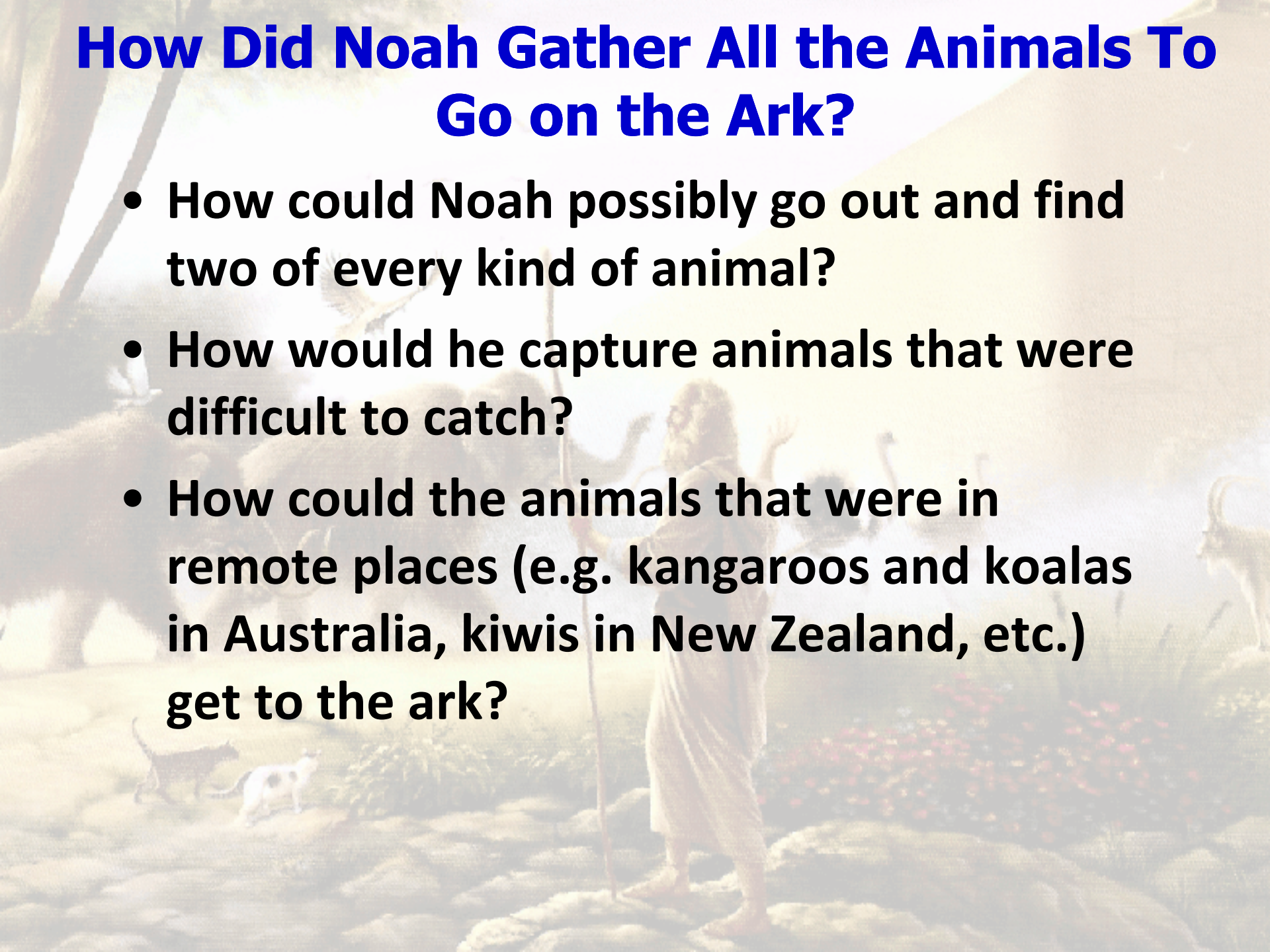
# **How Did Noah Gather All the Animals To Go on the Ark?**





# **How Did Noah Gather All the Animals To Go on the Ark?**

- How could Noah possibly go out and find two of every kind of animal?
- How would he capture animals that were difficult to catch?
- How could the animals that were in remote places (e.g. kangaroos and koalas in Australia, kiwis in New Zealand, etc.) get to the ark?





# How Did Noah Gather All the Animals To Go on the Ark?

- The first thing we have to remember about gathering the animals to the ark is that the animals came **to** Noah (under God's sovereign direction):
- **Genesis 6:20** - *Of the birds according to their kinds, and of the animals according to their kinds, of every creeping thing of the ground, according to its kind, two of every sort shall come in to you to keep them alive.*
- **Genesis 7:7-9** – *And Noah and his sons and his wife and his sons' wives with him went into the ark to escape the waters of the flood. <sup>8</sup> Of clean animals, and of animals that are not clean, and of birds, and of everything that creeps on the ground, <sup>9</sup> two and two, male and female, went into the ark with Noah, as God had commanded Noah.*

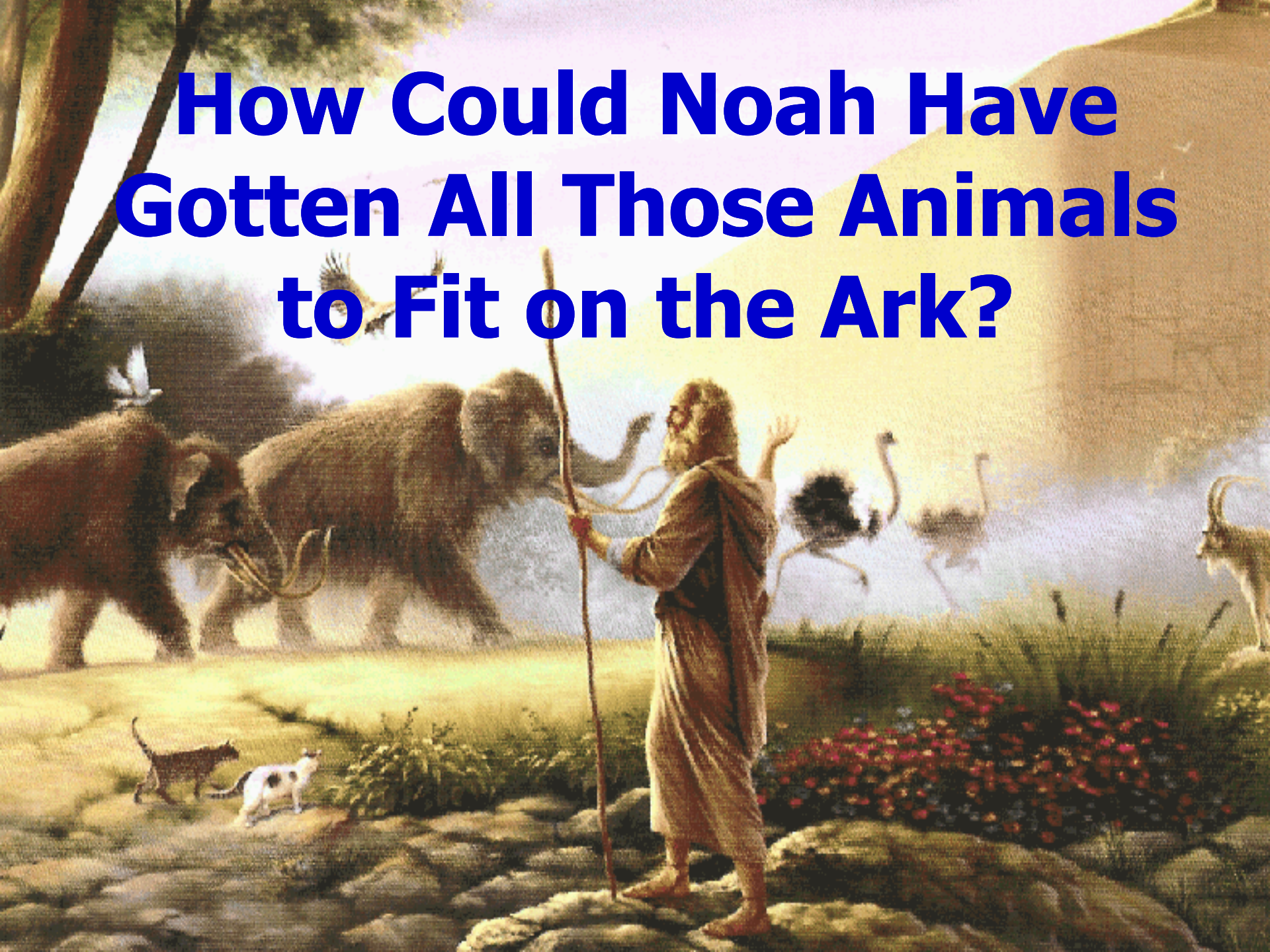


# How Did Noah Gather All the Animals To Go on the Ark?

- Also, the earth was undoubtedly much **different** before the flood than it is now. Some possible differences are:
  - Mountains may not have been as large prior to the flood – our large mountains may have been raised up after the flood to provide a place for the water to go.
  - There may have only been one continent before the flood (Genesis 1:9 says that the waters were gathered into one place – let the dry *land* appear)
  - There may not have been as much water on the earth. Much of the water from the flood may have come from out of the fountains of the deep - so there may not have been vast oceans prior to the flood.
  - Diverse animal kinds may not have been spread out much prior to the flood as they are today thus getting two of each kind of animal on the ark would not require animals to travel great distances.



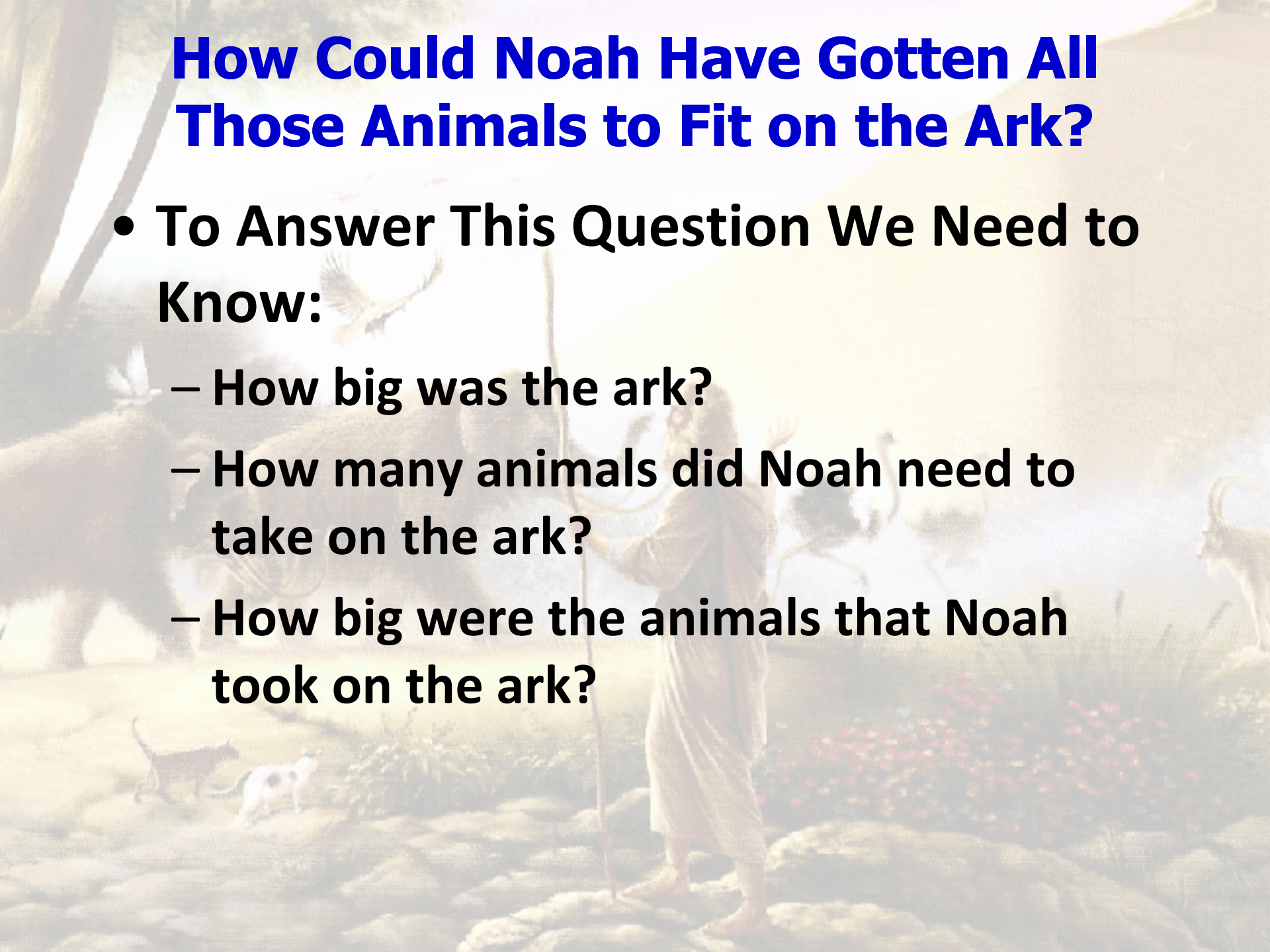
# How Could Noah Have Gotten All Those Animals to Fit on the Ark?





# **How Could Noah Have Gotten All Those Animals to Fit on the Ark?**

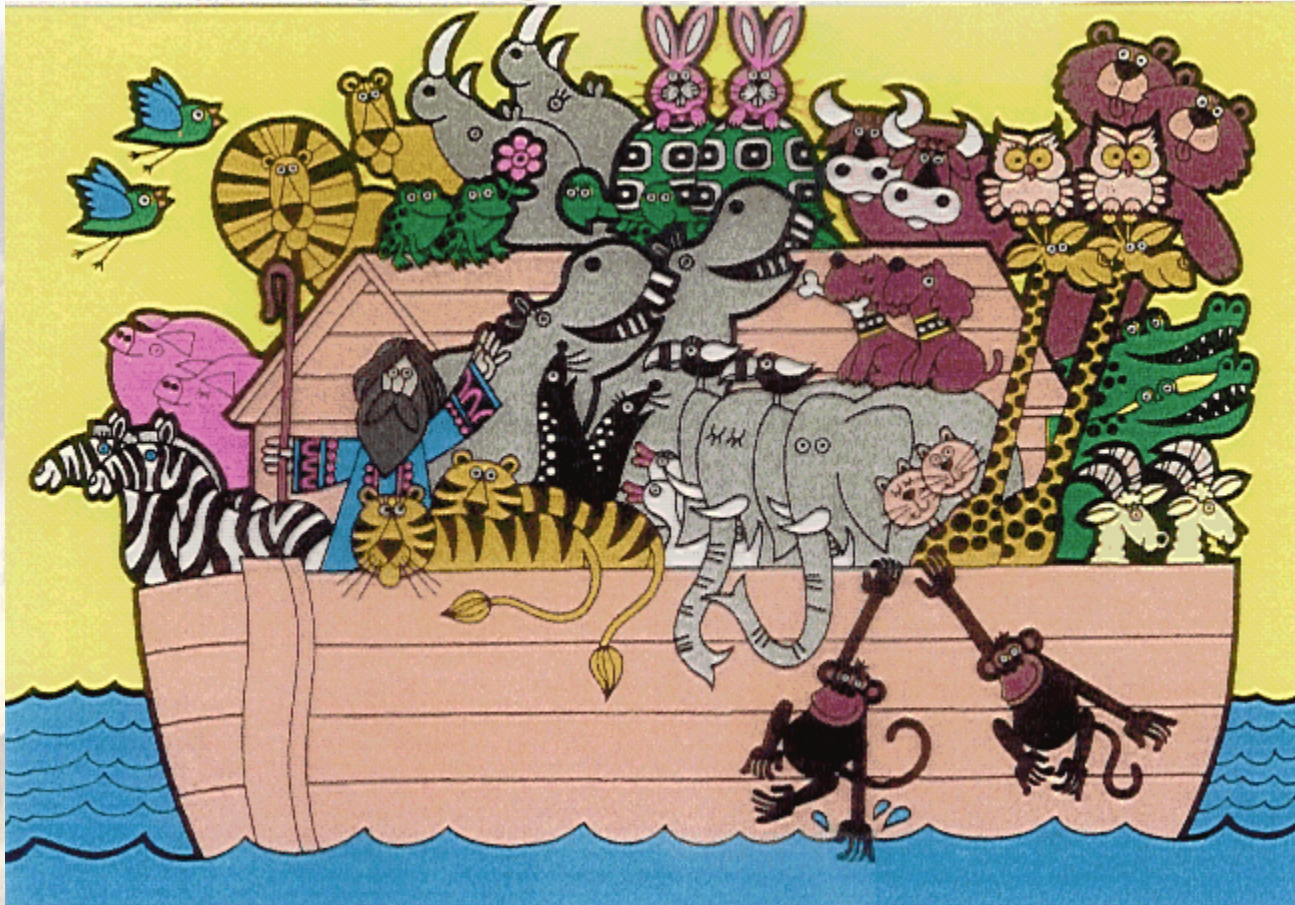
- **To Answer This Question We Need to Know:**
  - **How big was the ark?**
  - **How many animals did Noah need to take on the ark?**
  - **How big were the animals that Noah took on the ark?**





# How big was the ark?

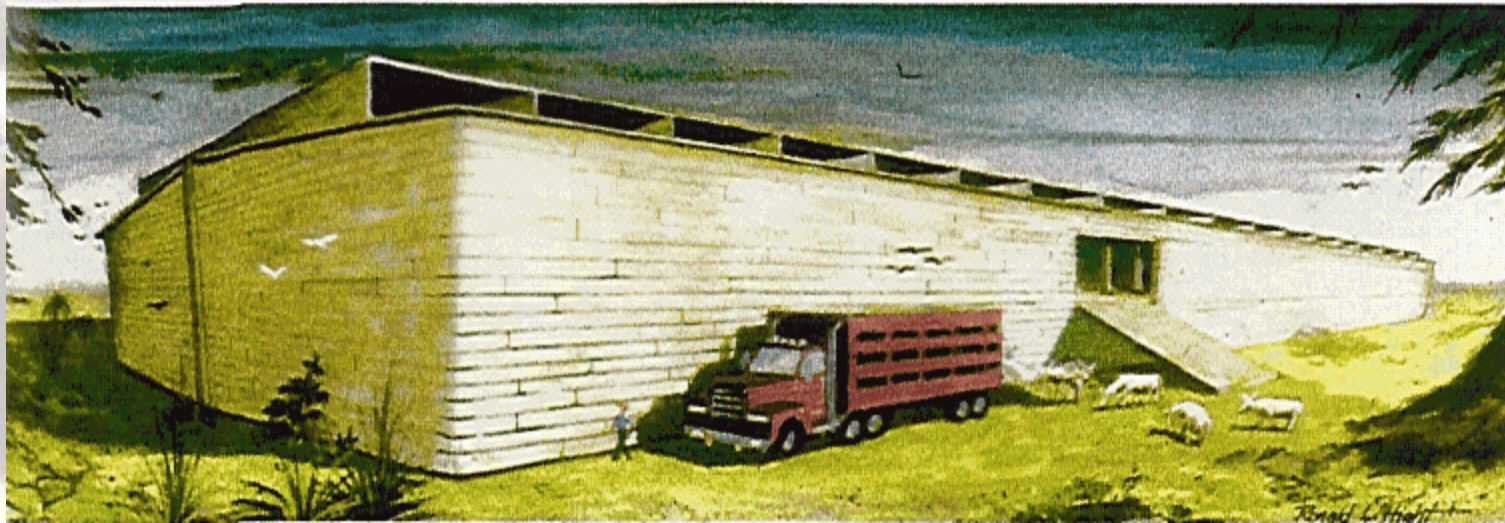
- **What some people picture:**



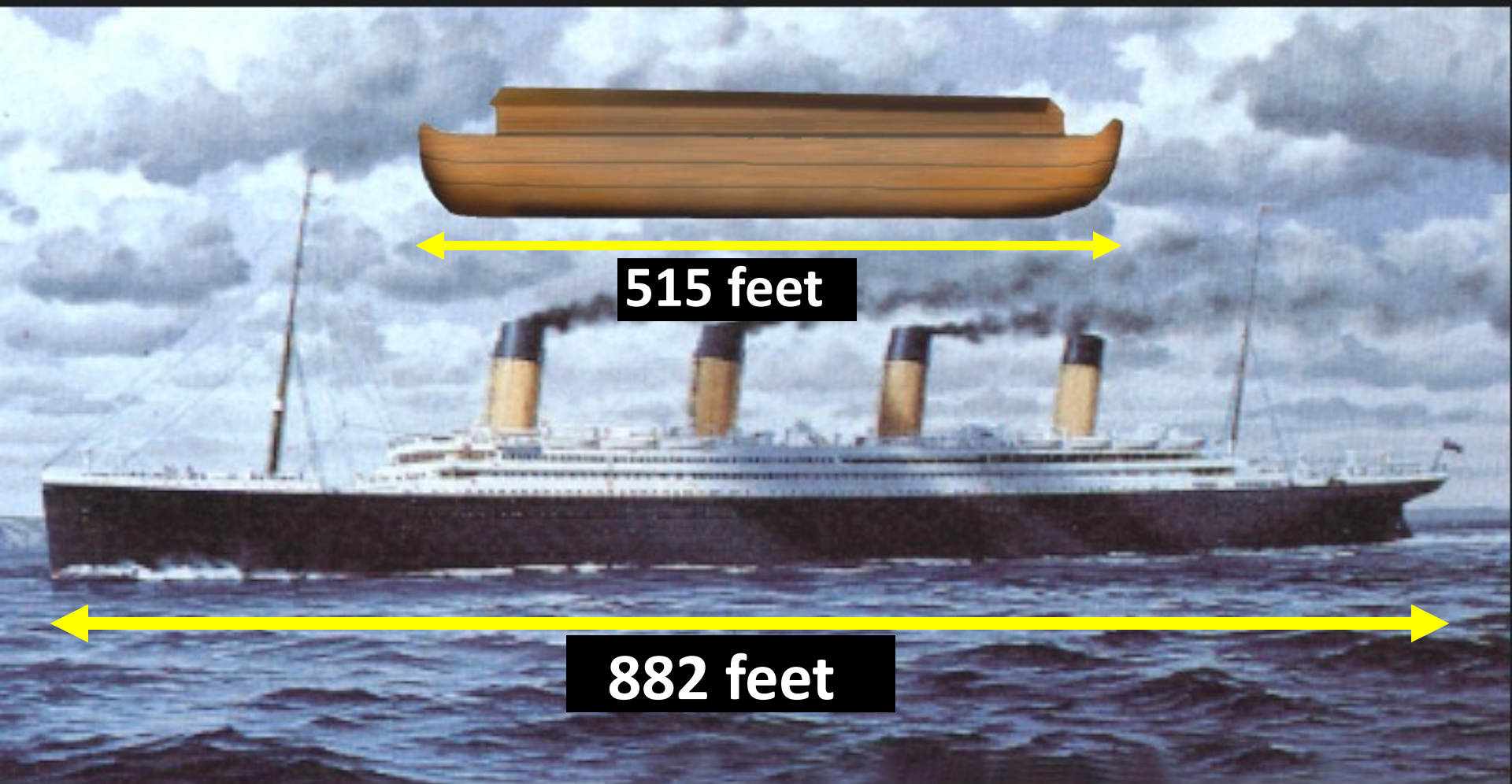


# How big was the ark?

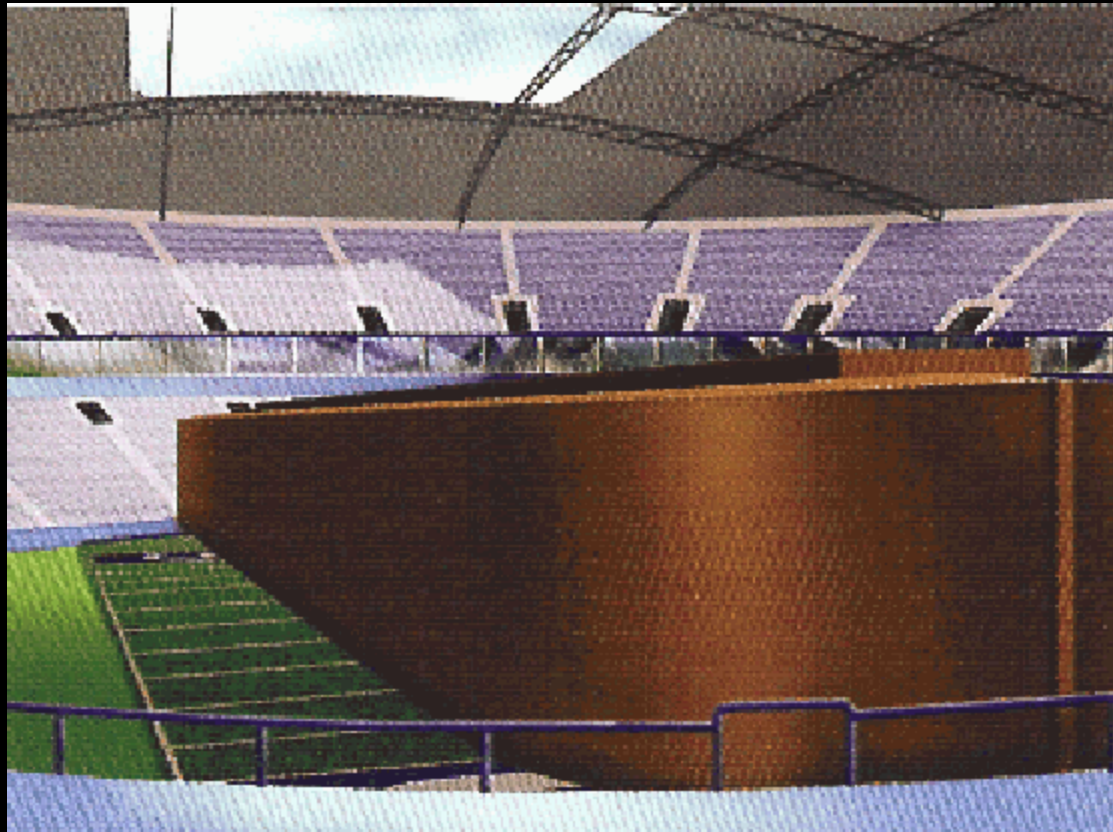
- What the Bible teaches:







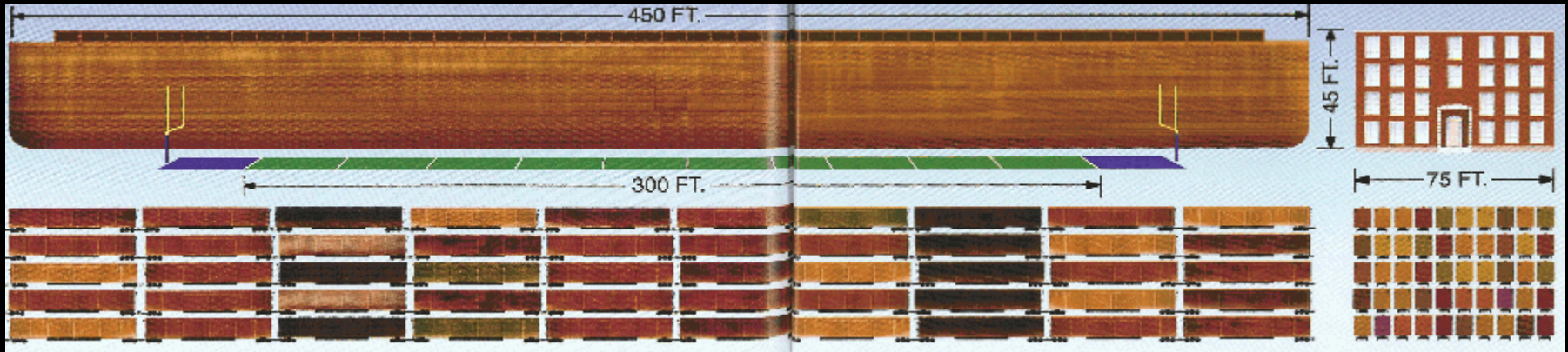
**Noah's ark compared to Titanic**



**Noah's ark in a football stadium**



# Noah's Ark:



- **50% Longer Than a Football Field**
- **About the Height a Four Story Building**
- **Storage Capacity = 522 Standard Railroad Stock Cars**

# How many animals did Noah need to take on the ark?

- **Genesis 6:19** – *And of every living thing of all flesh, you shall bring two of every sort into the ark to keep them alive with you. They shall be male and female.*
- **Genesis 7:2** – *Take with you seven pairs of all clean animals, the male and his mate, and a pair of the animals that are not clean, the male and his mate*
- **Genesis 7:15** – *They went into the ark with Noah, two and two of all flesh in which there was the breath of life.*
- **Genesis 7:22** – *Everything on the dry land in whose nostrils was the breath of life died*



# How many animals did Noah need to take on the ark?

- Noah **only** had to keep **breathing land animals** on the ark.
- Therefore Noah did not have to take any fish or sea creatures on the ark.
- Noah **only** had to take select animals representing **each created “kind”**:
  - **Seven** of each “**clean**” kind (whether seven pairs or seven individuals is uncertain)
  - **Two** of each **unclean**
- Depending on how “clean” animals were defined in Noah’s day, there may have been **very few clean** animals (there are only a couple of dozen clean animals as defined in Moses day).

# A Possible List of Clean Animals in Moses Day

Animals (Deut. 14:4-6)	Insects (Lev. 11:21)	Birds (Encyclopaedia Judaica *)
antelope	cricket	domestic duck
deer	grasshopper	domestic goose
gazelle	katydid	hen
goat	locust	house sparrow
ibex		palm dove
mountain sheep		partridge
ox		peacock
roe deer		pheasant
sheep		pigeon
wild goat		quail
		turtle dove
<i>"You may eat any animal that has a split hoof divided in two and that chews the cud." (Deut 14:6)</i>		<i>"Leviticus 11:13-19 lists 20 'unclean' birds, and Deuteronomy 14:12-18 enumerates 21 ... The Bible does not list 'clean' birds".</i>

\*[http://ej.kdsdev.com/sample-articles/article\\_view.php?sid=dietary-laws&p=7](http://ej.kdsdev.com/sample-articles/article_view.php?sid=dietary-laws&p=7)



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- Depending on how “clean” animals were defined in Noah’s day, there may have been **very few clean** animals (there are only a couple of dozen clean animals as defined in Moses day).
- If this is the case the **majority** of animal kinds on the ark would be represented by **one pair** (rather than seven).



# What is an animal “kind”?

- Noah was instructed to take two (or seven) of each “**kind**” of land animal on board the ark .
- Animals are of the same “kind” if they can procreate and therefore produce other animals of the same “kind” as themselves.
- Thus by having a representative of each kind of animal on the ark, the earth could be repopulated after the flood with each of the different kinds of animals as they existed before the flood.
- Genesis 6:20 – *Of the birds according to their kinds, and of the animals according to their kinds, of every creeping thing of the ground, according to its kind, two of every sort shall come in to you to keep them alive*



By observing the different kinds of living things in the world today, we can see that God built a great deal of **variety and adaptability** into each created kind!

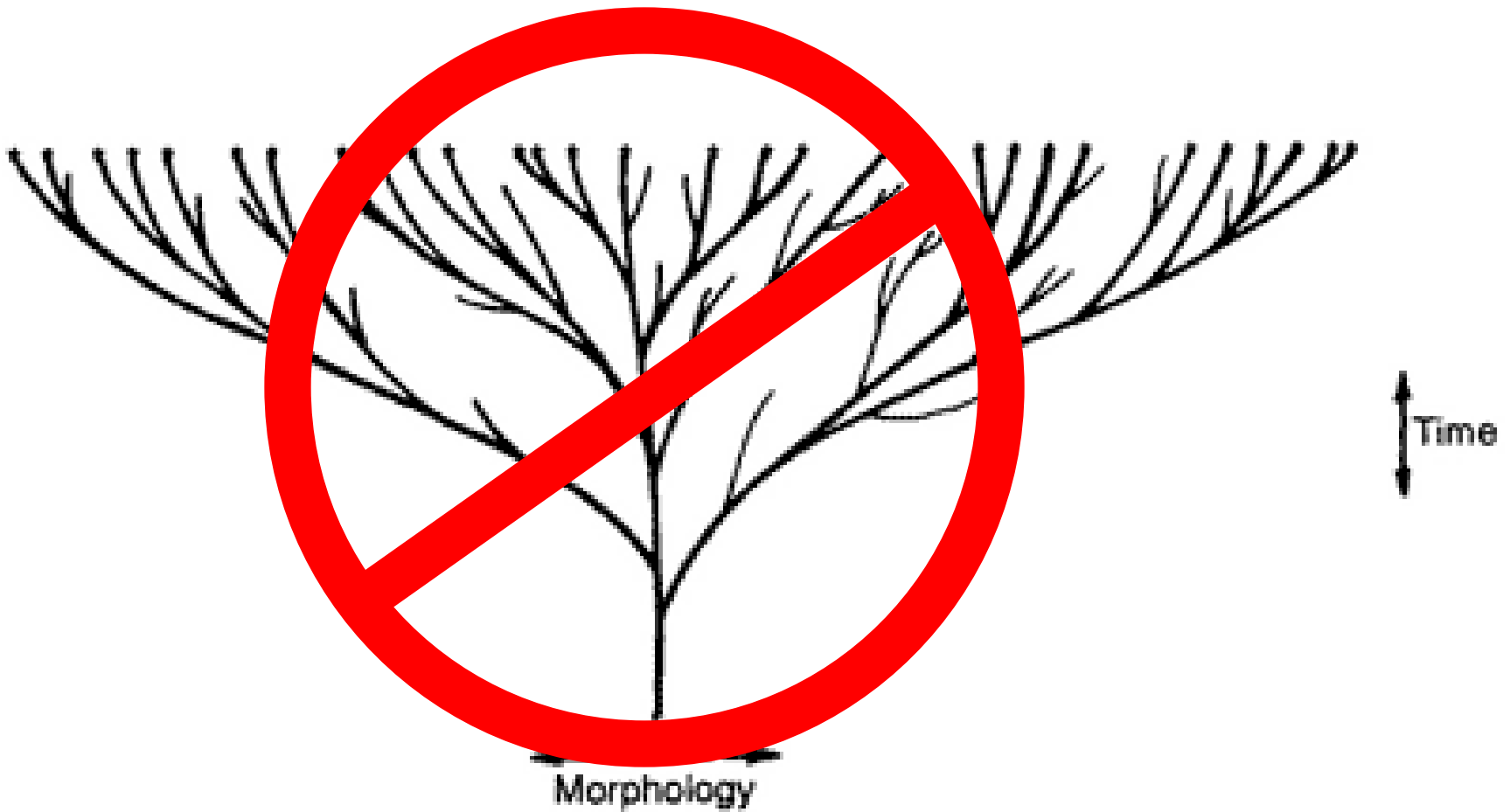


**While God has  
built great variety  
into each kind,  
God has also  
placed **limits**. God  
made all living  
things to produce  
“**according to their  
kinds**” (Genesis  
1:11,12,21,24,25)**





**So God did not populate the earth using the evolutionary “tree” where all things are thought to descend from one single celled organism**

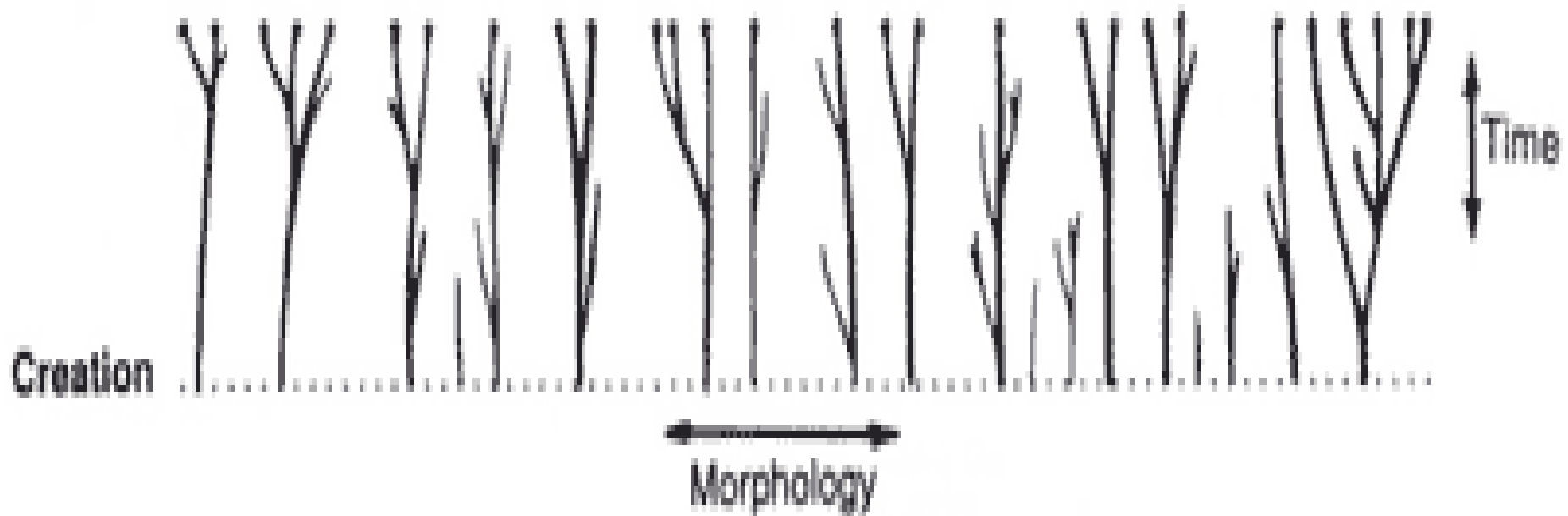


**Nor do we think God populated the earth using the stereotypical creationist “**lawn**” where little, if any variation occurs within a created kind.**

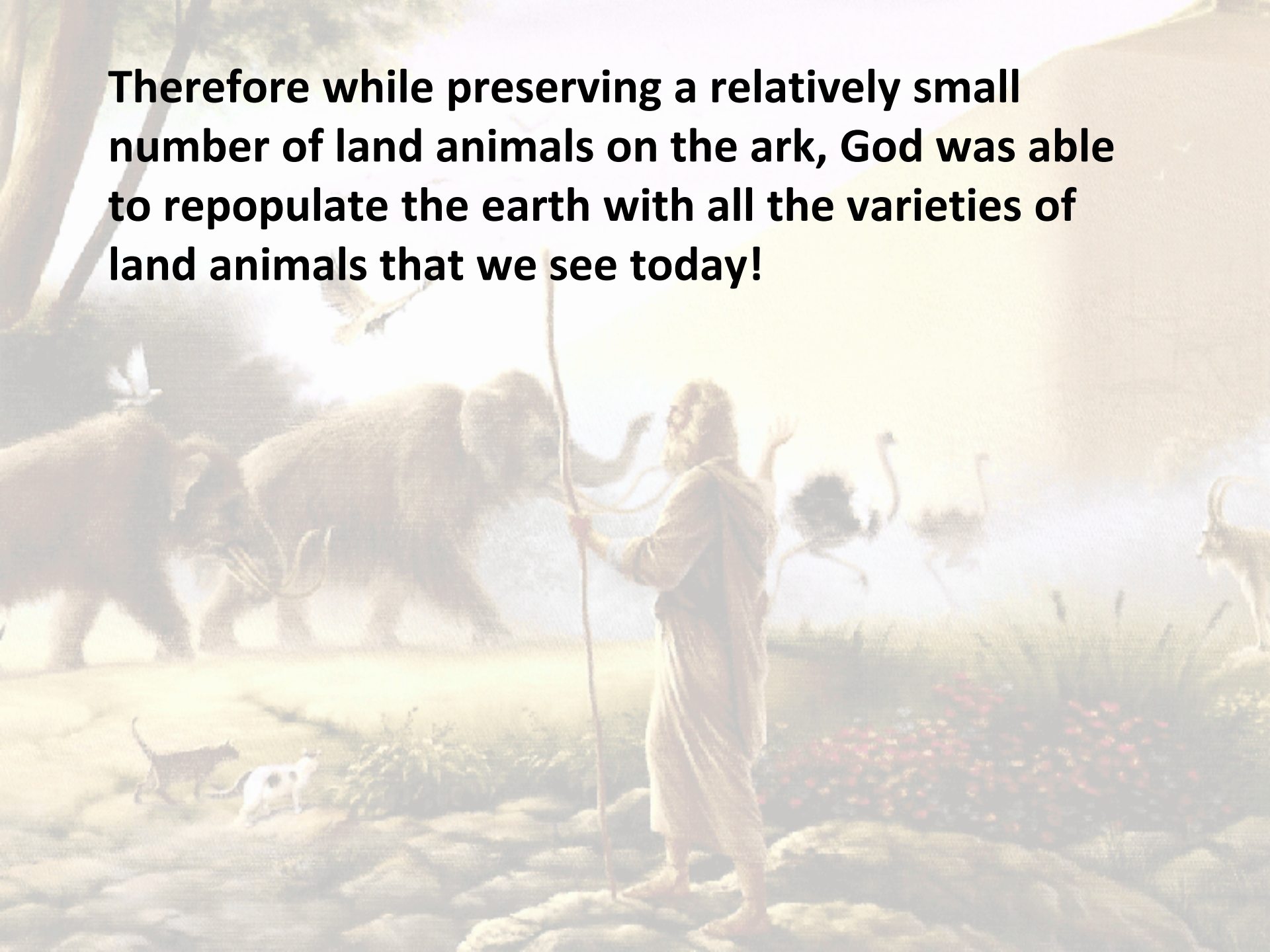




We believe that God populated (and after the flood repopulated) the earth using the creationist “orchard” where there is variety and yet limits within each created kind.

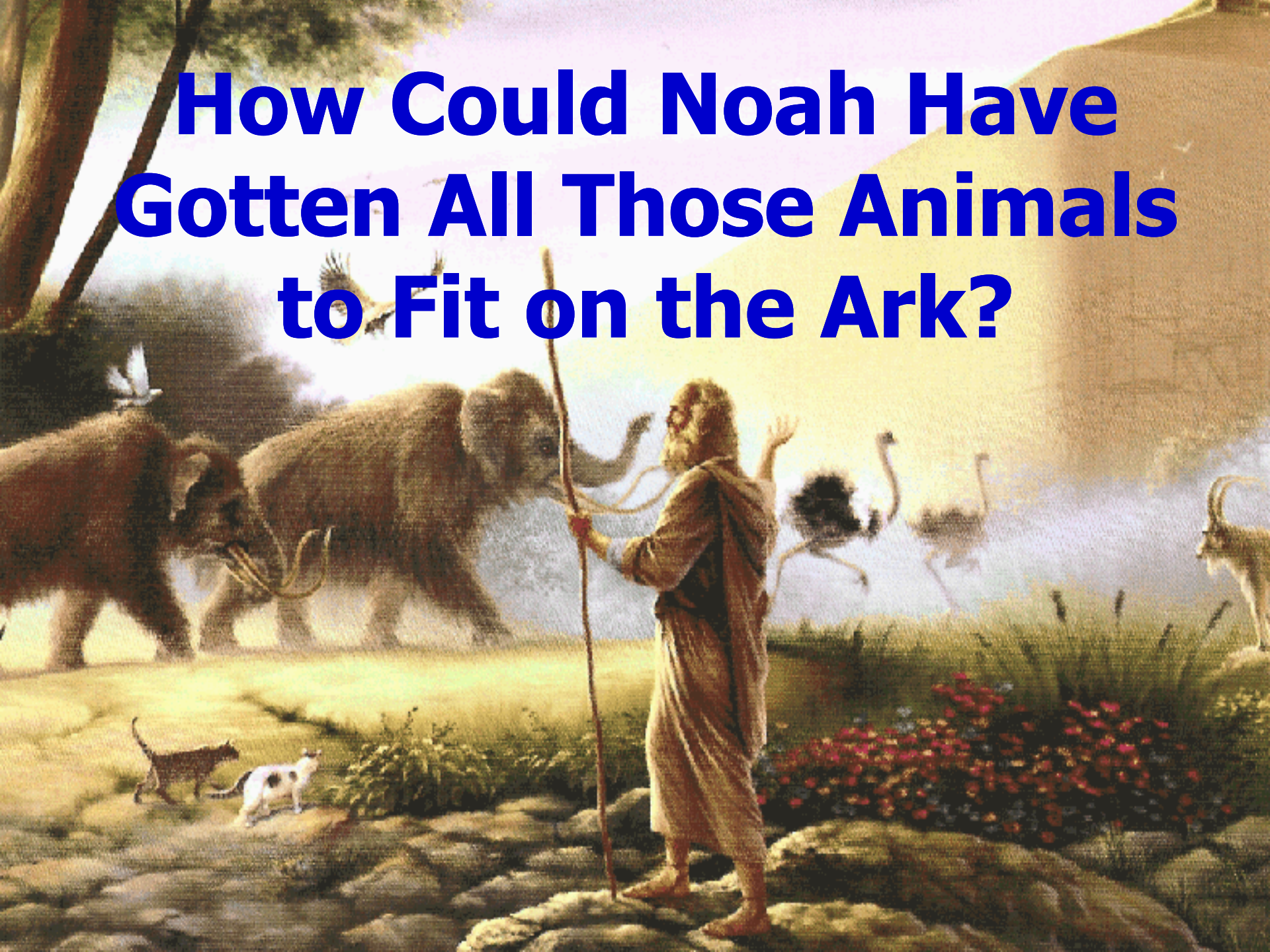


**Therefore while preserving a relatively small number of land animals on the ark, God was able to repopulate the earth with all the varieties of land animals that we see today!**





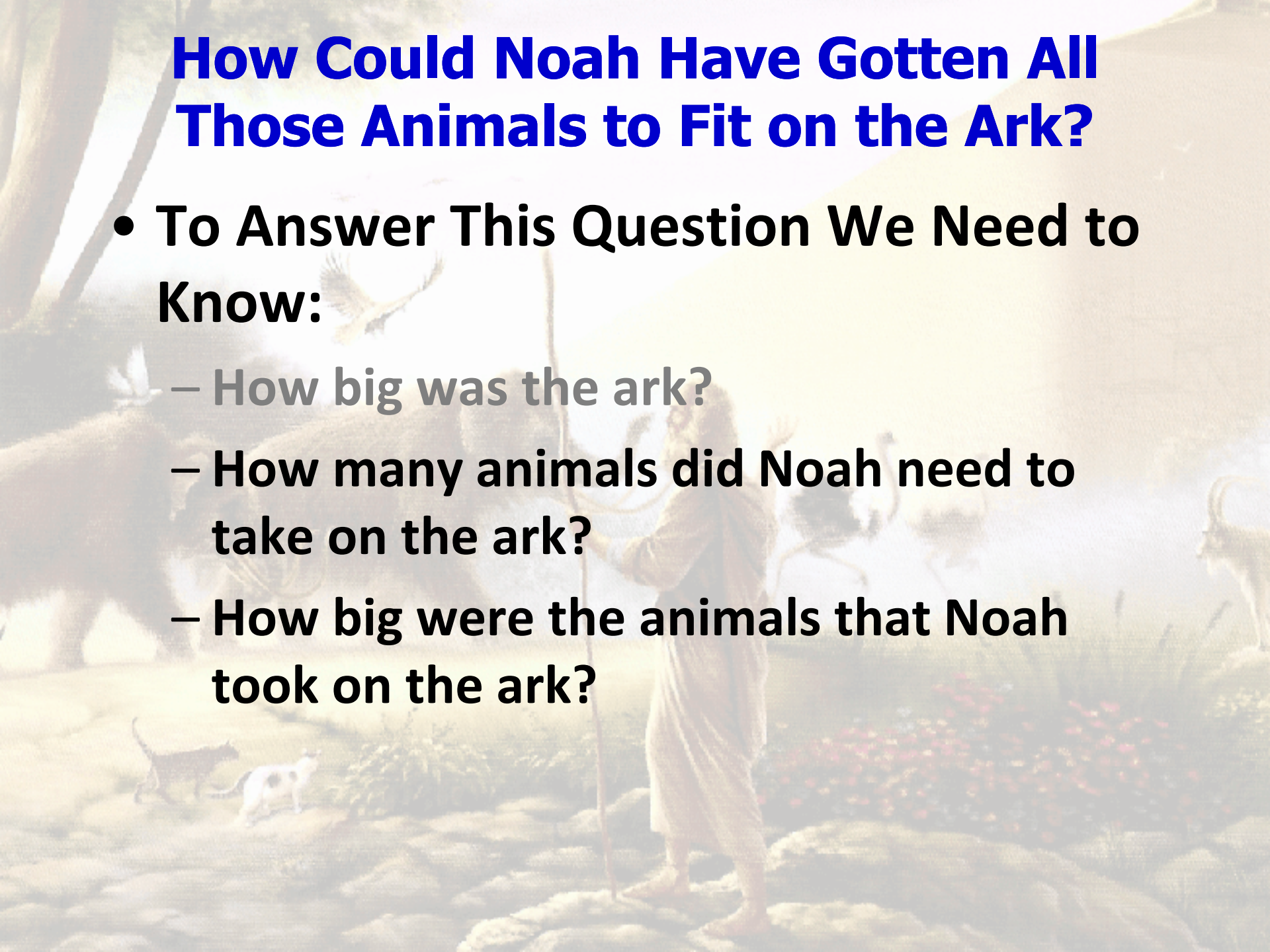
# How Could Noah Have Gotten All Those Animals to Fit on the Ark?





# **How Could Noah Have Gotten All Those Animals to Fit on the Ark?**

- **To Answer This Question We Need to Know:**
  - How big was the ark?
  - How many animals did Noah need to take on the ark?
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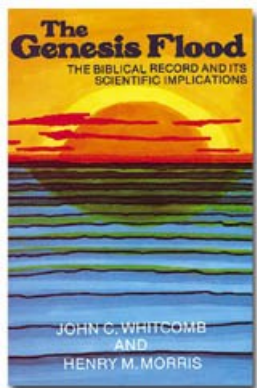
# **So how many “kinds” of animals did Noah take on the ark?**

- **It is difficult to know for sure which animal species today are descended from a common ancestral “kind” because:**
  - **We are not always aware of different species that can successfully mate with other species and produce offspring**
  - **In many cases, due to such things as mutations or genetic drift over time, two species that have descended from a common ancestral kind can no longer successfully mate**



# So how many “kinds” of animals did Noah take on the ark?

- In 1961, Henry Morris, working with estimates of the number of animal species given by Ernst Mayr, a leading American systematic taxonomist, estimated that there were probably no more than 35,000 individual vertebrate animals on the ark.
- Morris estimates that it takes **146** stock cars to carry 35,000 average (sheep) sized animals.
- Based on the dimensions given for the ark (450 feet long x 75 feet wide x 45 feet high) it had a carrying capacity of **522** standard stock cars used by modern railroads.
- Therefore, according to Morris’ estimates, the ark was **three times bigger than necessary!**

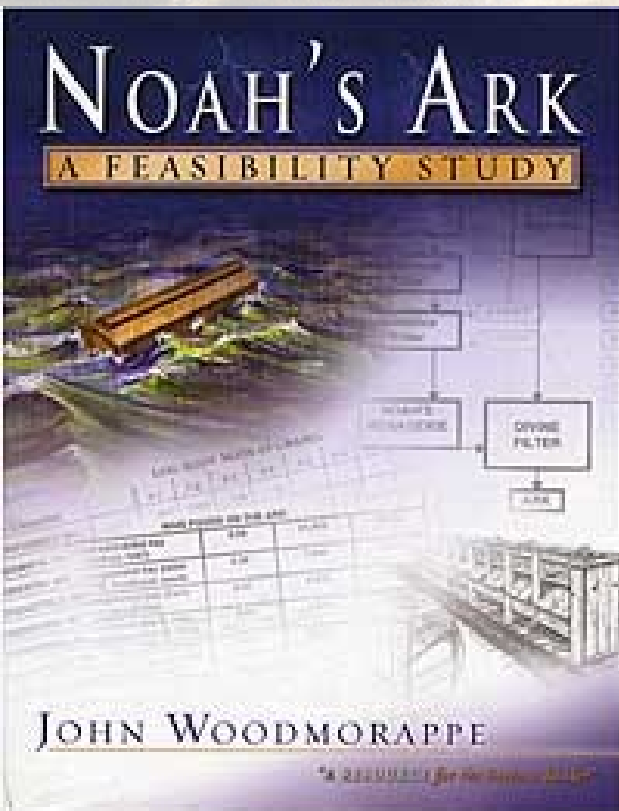


The above estimates come from Whitcomb and Morris, *The Genesis Flood - The Biblical Record and Its Scientific Implications*, 1961, pp.65-70



# So how many “kinds” of animals did Noah take on the ark?

- In a more recent study, John Woodmorappe shows that Morris' figures may have been **too conservative!**
- To estimate the number of animal kinds on the ark, Woodmorappe uses modern animal classifications.



**John Woodmorappe , *Noah's Ark: A Feasibility Study* , 1996**

# Modern Animal Classification

- **Kingdom**
- **Phylum**
- **Class**
- **Order**
- **Family**
- **Genus**
- **Species**





# An Example of Modern Animal Classification

- **Kingdom** - Animalia
- **Phylum** – Chordata
- **Subphylum** - Vertebrata
- **Class** - Reptilia
- **Order** - Squamata (amphisbaenians, lizards, and snakes)
- **Suborder Sauria** (lizards)
- **Family** - Anguidae (alligator lizards, glass lizards, and lateral fold lizards)
- **Genus** - Elgaria (western alligator lizards)
  - **Species** – Elgaria kingii (Arizona alligator lizard and madrean alligator lizard)
  - **Species** – Elgaria multicarinata (southern alligator lizard)



# An Example of Modern Animal Classification

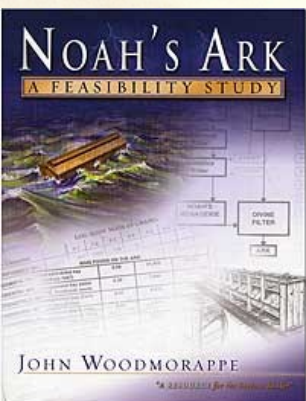
- **Kingdom** - Animalia
- **Phylum** - Chordata
- **Subphylum** - Vertebrata
- **Class** - Mammalia (mammals)
- **Order** - Carnivora (carnivores)
- **Family** - Felidae (cats – cheetahs, small cats, leopards, lions, and tigers)
- **Genus** - Panthera (roaring cats)
- **Species** -
  - leo (lion)
  - tigris (tiger)





# So how many “kinds” of animals did Noah take on the ark?

- If we use the modern animal classification of **genus** as the most likely indicator of original “kind”, Woodmorappe shows that there would have been about 16,000 animals on the ark. (p. 7-8)
- Woodmorappe believes that the **family** classification is probably a better approximation of the original kinds in which case there would only need to have been 2,000 animals on the ark.
- But, in order to be conservative, Woodmorappe made all his calculations based on the assumption that there were 16,000 animals on the ark.
- He analyzed the average size of these animals and found that half the animals on the ark would weigh less than a small rat! (p.13)
- He goes on to state that only 11% of the animals on the ark would have been substantially larger than a sheep. (p.13)

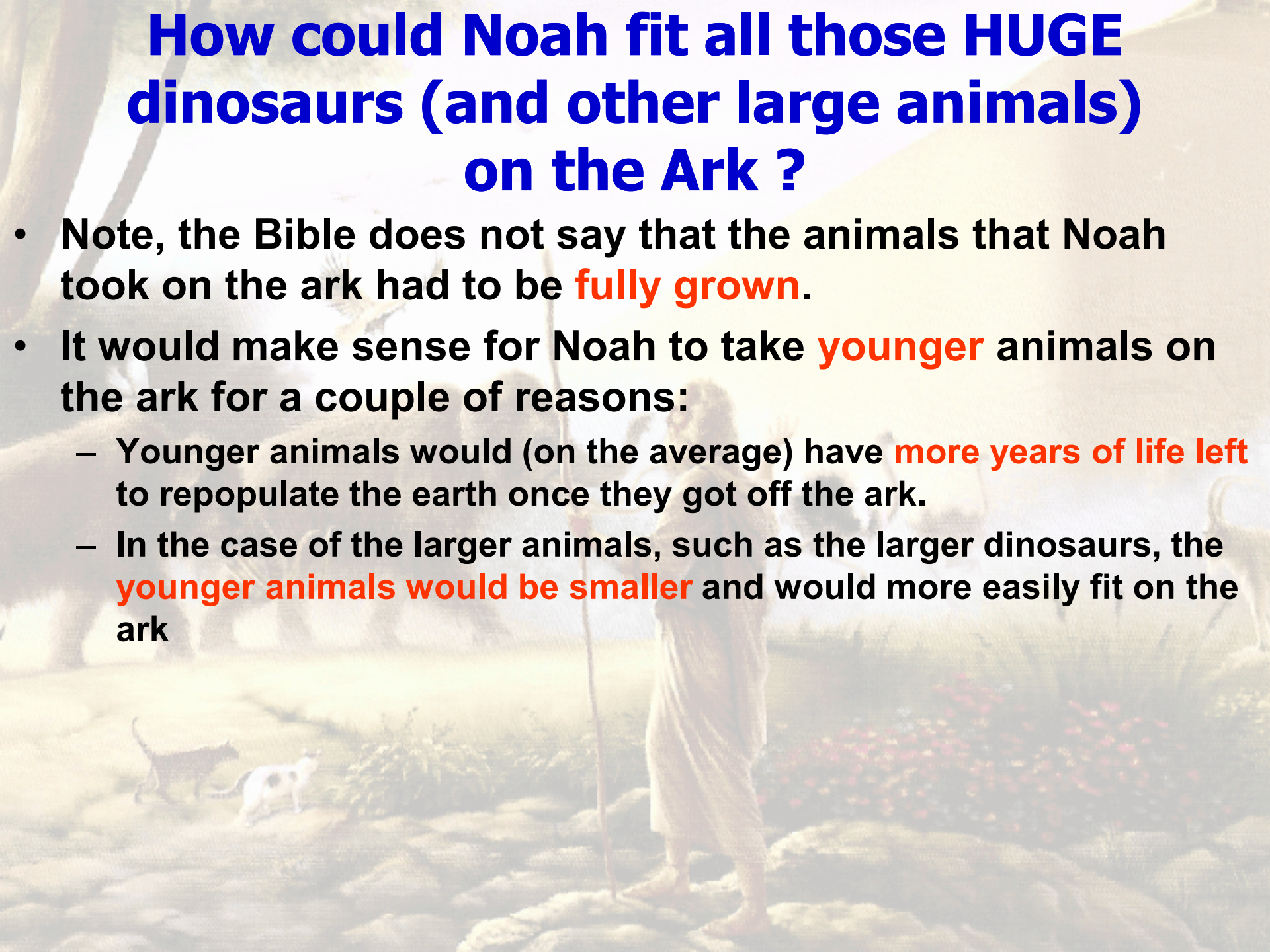


The above estimates come from  
John Woodmorappe , *Noah's  
Ark: A Feasibility Study* , 1996



# How could Noah fit all those HUGE dinosaurs (and other large animals) on the Ark ?

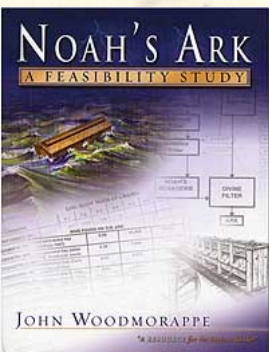
- Note, the Bible does not say that the animals that Noah took on the ark had to be **fully grown**.
- It would make sense for Noah to take **younger** animals on the ark for a couple of reasons:
  - Younger animals would (on the average) have **more years of life left** to repopulate the earth once they got off the ark.
  - In the case of the larger animals, such as the larger dinosaurs, the **younger animals would be smaller** and would more easily fit on the ark





# So How Could Noah Have Gotten All Those Animals to Fit on the Ark?

- Using standard floor space requirements recommended for:
  - The housing of laboratory animals for the **smaller** animals
  - Intensively housed livestock for the **larger** animals,
- Woodmorappe calculated that the space required to house the 16,000 animals and their enclosures would require **less than half of the floor space** of the ark's three decks. (p.16)
- This calculation assumes no stacking of enclosures, which would allow at least some food and water to be stored overhead. (p.16)
- There is also plenty of room left over for the ark's infrastructure and passageways.



The above estimates come from  
John Woodmorappe , *Noah's  
Ark: A Feasibility Study* , 1996





**How Could Noah  
Have Cared For So  
Many Animals On the  
Ark?**



# How Could Noah Have Cared For So Many Animals On the Ark?

- We are not given the details of what was involved in caring for the animals on the ark or how Noah and his family went about doing what was necessary.
- We are told that Noah was to bring **food** on the ark for himself and the animals:
- Genesis 6:19,21 – *And of every living thing of all flesh, you shall bring two of every sort into the ark to keep them alive with you. They shall be male and female...<sup>21</sup> Also take with you every sort of food that is eaten, and store it up. It shall serve as food for you and for them.*"
- From this we can at least infer that Noah and his family had to **feed** the animals.



# How Could Noah Have Cared For So Many Animals On the Ark?

- At the same time, we cannot rule out that God may have made special (perhaps even miraculous) provision to help Noah in his care of the animals .
- For example, some have suggested that God could have caused many of the animals on the ark to **hibernate** during the flood, in order to make caring for them easier.
- The Bible does not say anything about this, so we can't assume it. But at the same time, it is a possibility.



# How Could Noah Have Cared For So Many Animals On the Ark?

- Some have argued that food taken on board rules out hibernation, but this is not so. Hibernating animals do not sleep all winter, despite what many think, so they would still need food occasionally.
- John Woodmorappe in *Noah's Ark: A Feasibility Study*, 1996 shows in painstaking detail a variety of possible ways that Noah and his family could have cared for the animals on the Ark **without any miraculous intervention** on the part of God!



# Food Requirements on the Ark

- The Ark would probably have carried compressed and dried foodstuffs, and probably a lot of concentrated food.
- Perhaps Noah fed the cattle mainly on grain, plus some hay for fiber.
- Woodmorappe calculated that the volume of foodstuffs would have been only about 15 % of the Ark's total volume.
- Drinking water would only have taken up 9.4 % of the volume. This volume would be reduced further if rainwater was collected and piped into troughs.

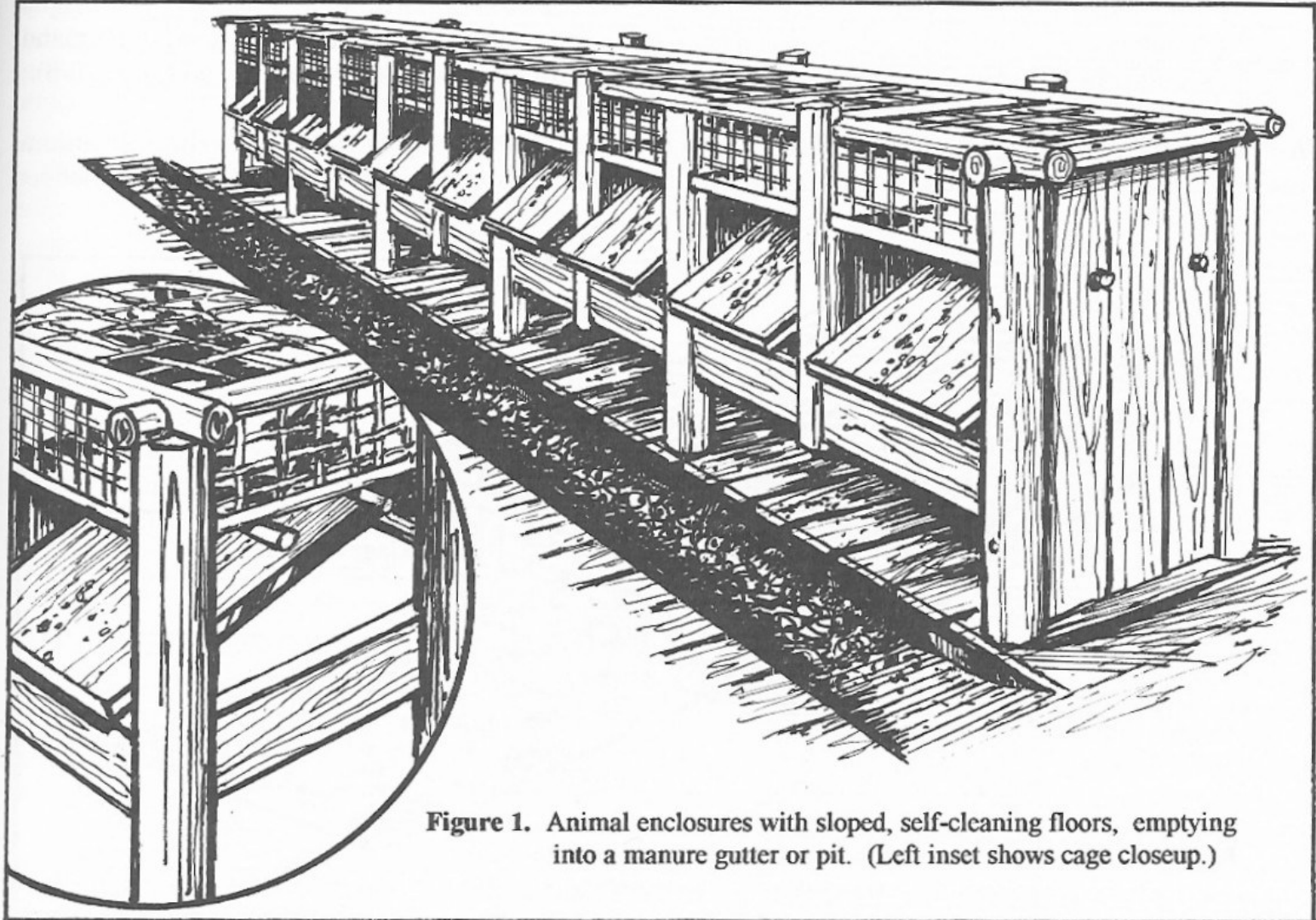


# Waste Disposal on the Ark

- It is doubtful whether the humans had to clean the cages every morning.
- Possibly they had sloped floors or slatted cages, where the manure could fall away from the animals and be flushed away (plenty of water around!) or destroyed by composting by worms which would also provide earthworms as a food source.
- Very deep bedding can sometimes last for a year without needing a change. Absorbent material (e.g. sawdust, softwood wood shavings and especially peat moss) would reduce the moisture content and hence the odor.



# Waste Disposal on the Ark



**John Woodmorappe , *Noah's Ark: A Feasibility Study* ,  
1996, p.25**



# How did Noah deal with ferocious animals on the ark?

- How did Noah keep from the lions and tigers, for example, from attacking and eating other animals or even him and his family?
- The Bible tells us that God put the fear of man into animals and permitted man to eat meat for the first time **after the flood**:
  - Genesis 9:2-3 - *The fear of you and the dread of you shall be upon every beast of the earth and upon every bird of the heavens, upon everything that creeps on the ground and all the fish of the sea. Into your hand they are delivered. <sup>3</sup> Every moving thing that lives shall be food for you. And as I gave you the green plants, I give you everything.*



# How did Noah deal with ferocious animals on the ark?

- Perhaps it was not until after the flood that animals began to eat meat (i.e. each other) as well. After all, Gen. 1:30 seems to imply that animals ate only plants at the time of creation – just as man did at that time.
  - Genesis 1:29-30 *And God said, "Behold, I have given you every plant yielding seed that is on the face of all the earth, and every tree with seed in its fruit. You shall have them for food."<sup>30</sup> And to every beast of the earth and to every bird of the heavens and to everything that creeps on the earth, everything that has the breath of life, I have given every green plant for food." And it was so.*
- Another possibility to keep in mind, is that Noah may have raised many of the animals that he took on the ark from their infancy, and thus domesticated them to a large degree.



# **How Would Fish Have Survived the Flood? (Outside the Ark)**





# How did freshwater and saltwater fish survive the Flood?

- If the whole earth were covered by water in the Flood, then there would have been a mixing of fresh and salt waters.
- Many of today's fish species are specialized and do not survive in water of radically different saltiness. So how did they survive the Flood?
- The first thing we should note is that many (probably most) of fish and sea creatures did **not** survive the flood!



# How did freshwater and saltwater fish survive the Flood?

- Note also, that only **two** of each kind survived on the ark and lived to repopulate the earth. Therefore **small numbers** of surviving fish and sea creatures could, no doubt, do the same.
- Note also that many fish today have a wide tolerance for variations in salinity.
  - For example, salmon, striped bass and Atlantic sturgeon spawn in freshwater and mature in saltwater.
  - Eels reproduce in saltwater and grow to maturity in freshwater streams and lakes.

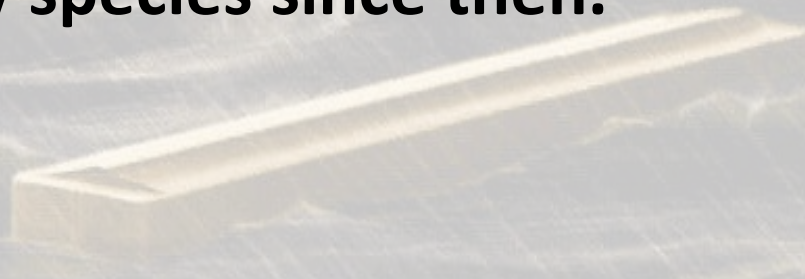
# **How did freshwater and saltwater fish survive the Flood?**

- **There is also evidence of post-Flood specialization within a kind of fish.**
- **For example, the Atlantic sturgeon is a migratory salt/freshwater species but the Siberian sturgeon (a different species of the same kind) lives only in freshwater.**
- **Many families of fish contain both fresh and saltwater species. These include the families of toadfish, garpike, bowfin, sturgeon, herring/anchovy, salmon/trout/pike, catfish, clingfish, stickleback, scorpionfish, and flatfish.**



# How did freshwater and saltwater fish survive the Flood?

- Indeed, most of the families of fish alive today have both fresh and saltwater representatives.
- This suggests that the ability to tolerate large changes in salinity was present in most fish at the time of the Flood. Specialization, through natural selection, may have resulted in the loss of this ability in many species since then.



# How did freshwater and saltwater fish survive the Flood?

- Note also, that fish today can often **adapt** to a different level of salinity if the level of salinity is changed **slowly** enough.
- Major public aquariums often use the ability of fish to adapt to water of different salinity from their normal habitat to exhibit freshwater and saltwater species together.
- So, many fish species today have the capacity to adapt to both fresh and salt water within their own lifetimes.

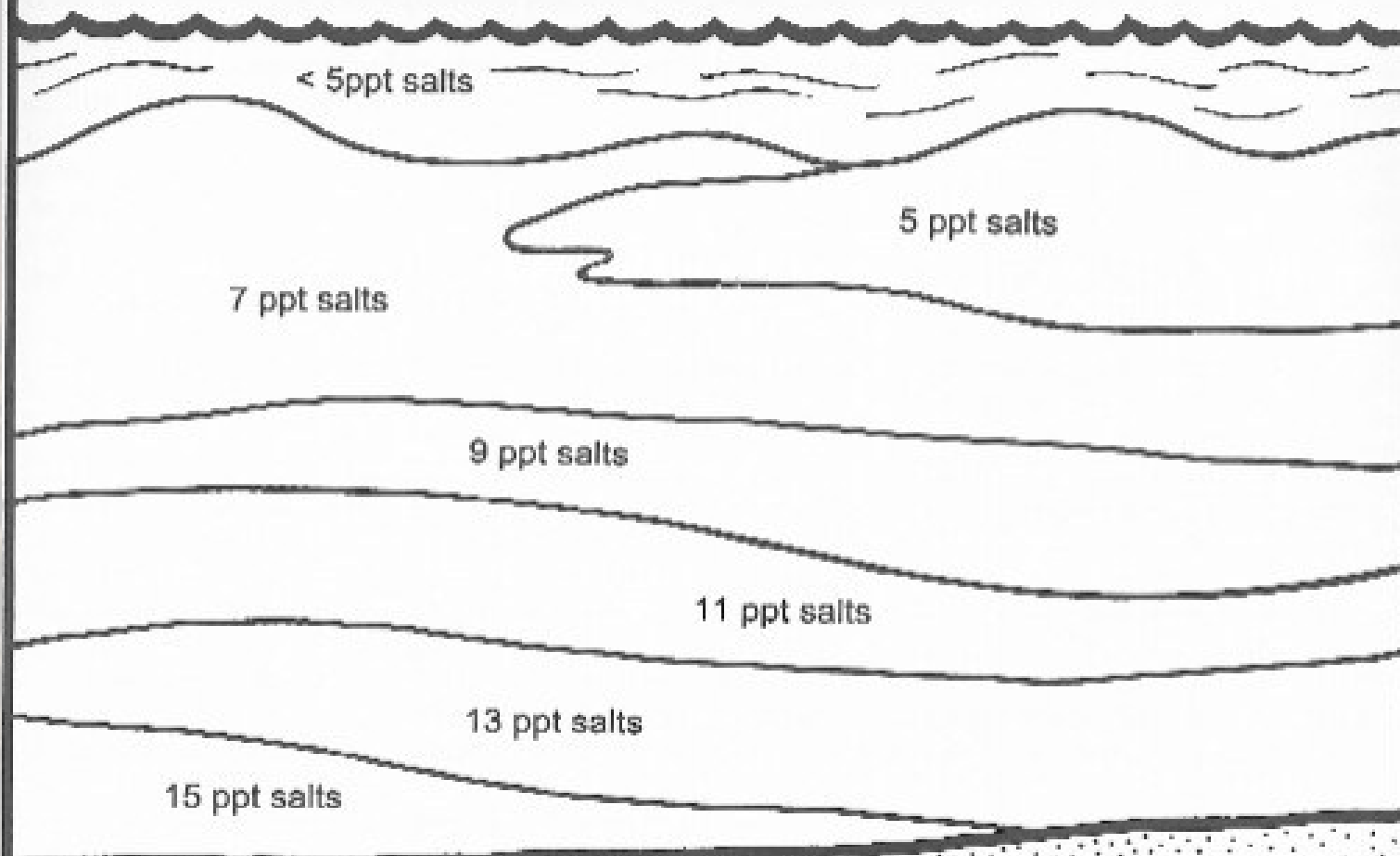


# How did freshwater and saltwater fish survive the Flood?

- There is also a possibility that during the flood stable fresh and saltwater layers developed and persisted in some parts of the ocean.
- Turbulence may have been sufficiently low in some places on the earth for such layering to persist and allow the survival of both freshwater and saltwater species in those areas.



**Simultaneous Survival of Stenohaline  
Freshwater and Marine Organisms in Floodwater**



Even if only a weak salinity stratification persisted through the Flood, it was probably sufficient for the survival of organisms with diverse salinity tolerances. (Vertical exaggeration approximately 1000.)



# **How Would Plants Have Survived the Flood? (Outside the Ark)**





# How did plants survive the Flood?

- Many terrestrial seeds can survive long periods of soaking in various concentrations of saltwater. Indeed, saltwater impedes the germination of some species so that the seed lasts better in saltwater than freshwater.
- Other plants could have survived in floating vegetation masses, or on pumice from the volcanic activity.
- Many plants could have survived as planned food stores on the ark, or accidental inclusions in such food stores.

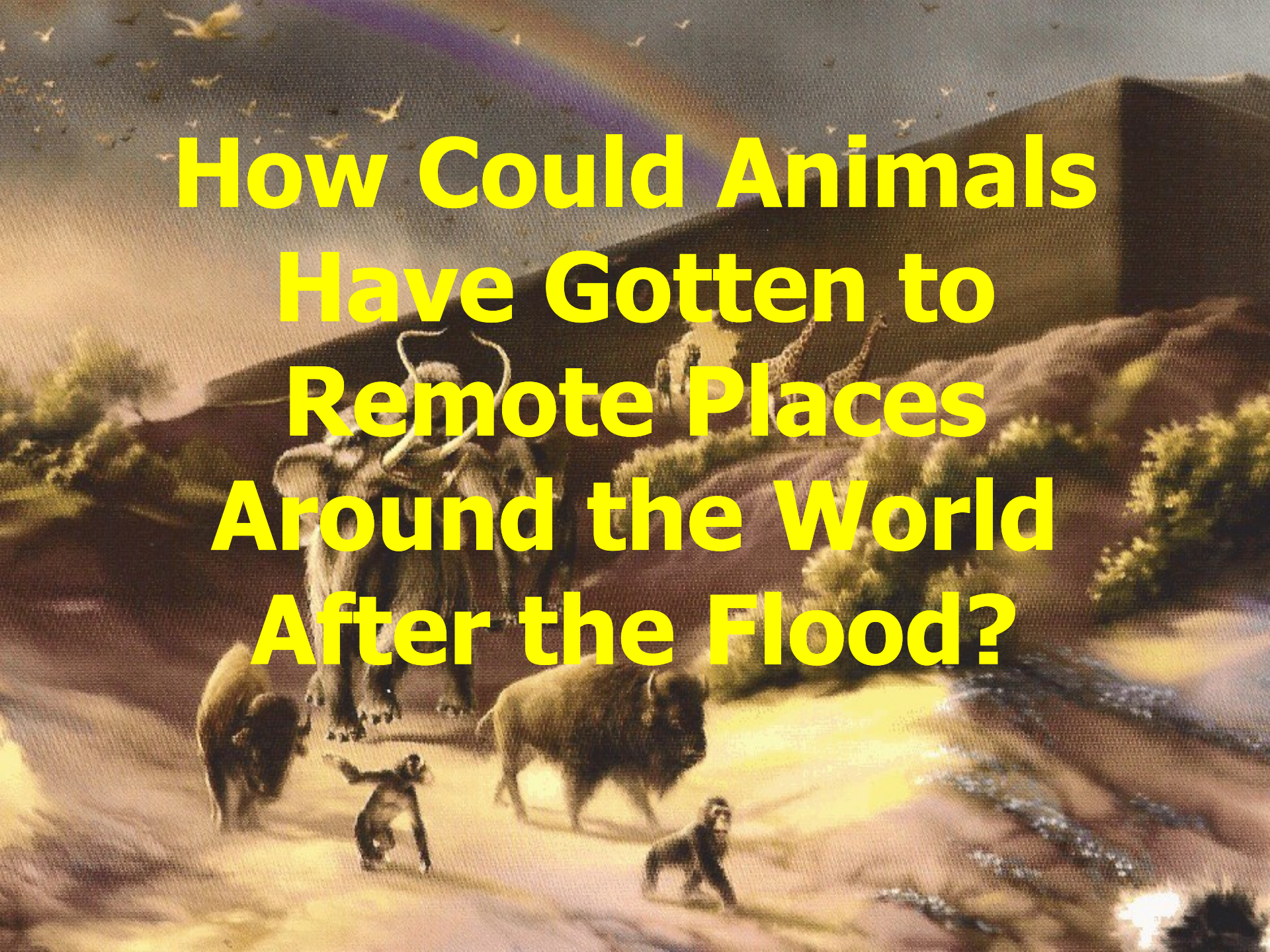


# How did plants survive the Flood?

- Many seeds have devices for attaching themselves to animals, and some could have survived the Flood by this means.
- Others could have survived in the stomachs of the bloated, floating carcasses of dead herbivores.
- The olive leaf brought back to Noah by the dove (Gen. 8:11) shows that plants were regenerating well before Noah and company left the Ark.



# **How Could Animals Have Gotten to Remote Places Around the World After the Flood?**





# How Could Animals Have Gotten to Remote Places Around the World After the Flood?

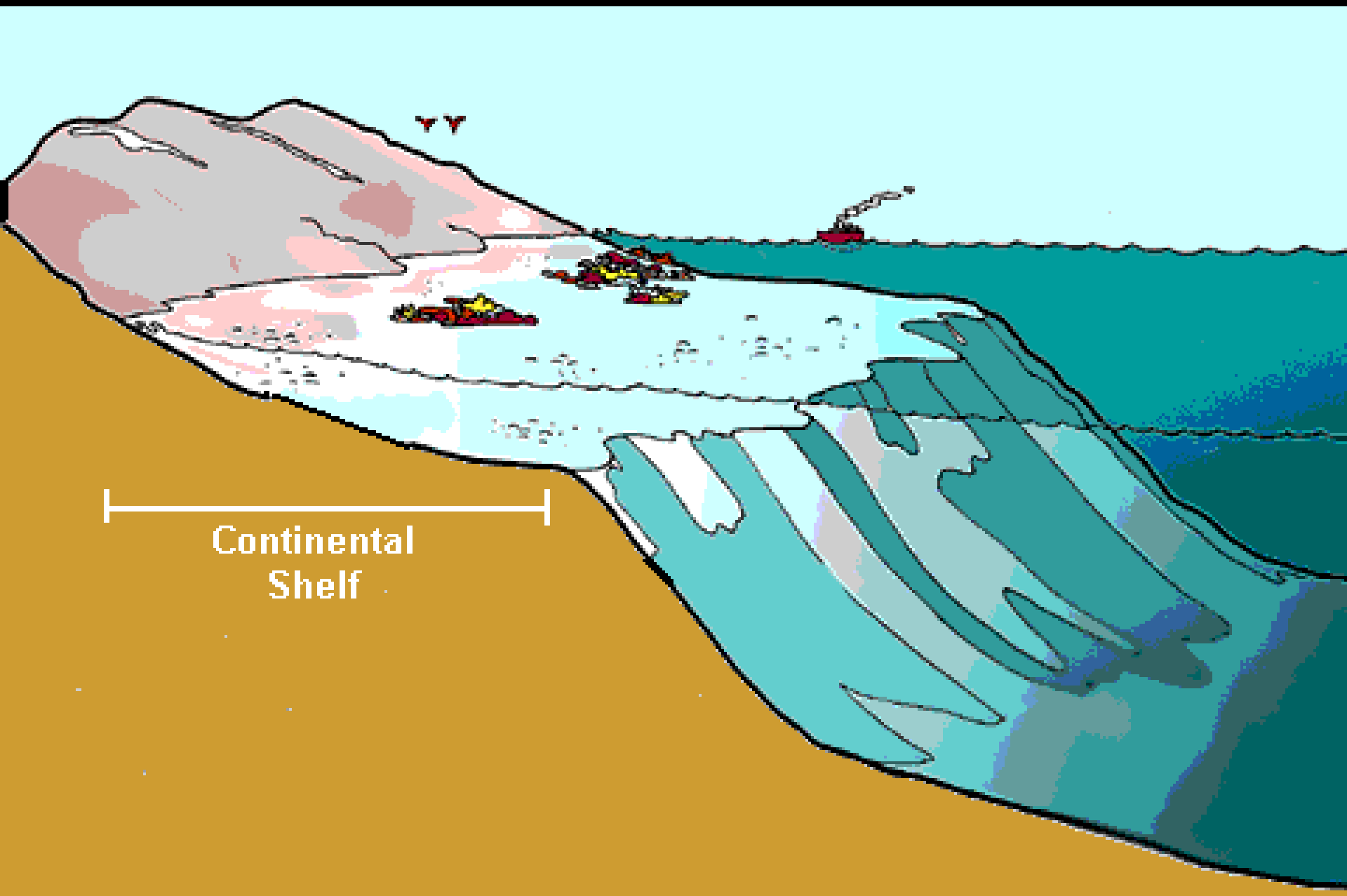
- Skeptics are fond of asking such things as, “How could a kangaroo have hopped such a **long distance** from the mountains of Ararat (where the ark landed), **across the oceans**, all the way to Australia?”
- The first thing that we should note is that for the kangaroo population to reach Australia (for example) it would not have required that one kangaroo travel the entire distance from the mountains of Ararat to Australia.
- Populations of kangaroos could have spread over long periods of time, gradually migrating.



# How Could Animals Have Gotten to Remote Places Around the World After the Flood?

- One possibility is that for a period of time after the flood the **continental shelves** might have been **exposed**, allowing animals to travel to various places throughout the world.
- **Even evolutionists** acknowledge that men and animals could once freely cross the Bering Strait, which separates Asia and the Americas.
- **Before** the idea of **continental drift** became popular, evolutionists believed that the world sea levels were lowered during an **ice age** and in this way the **continental shelves** became land bridges that allowed dry-land passage all the way from Europe to Australia.







Continental Shelf

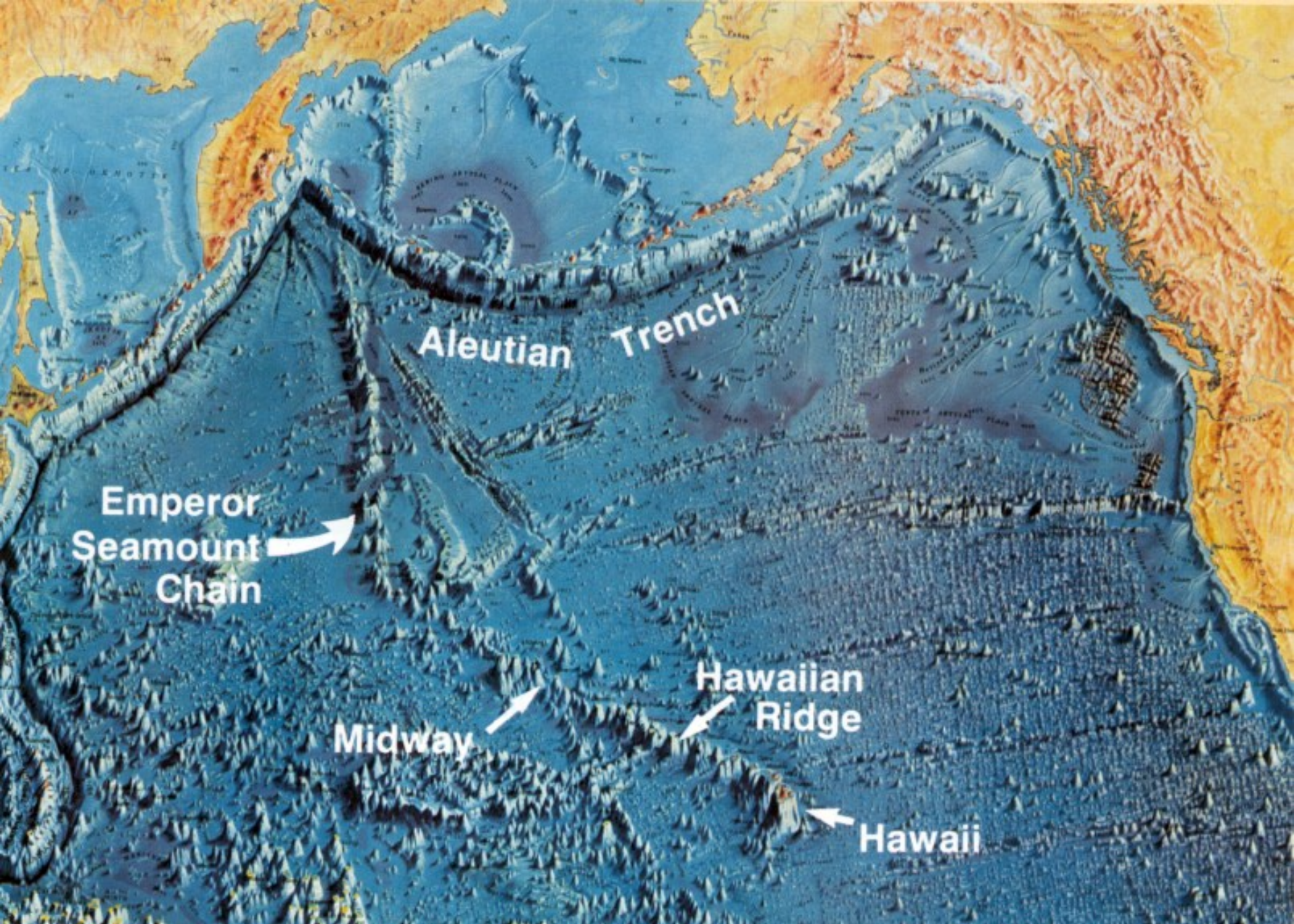




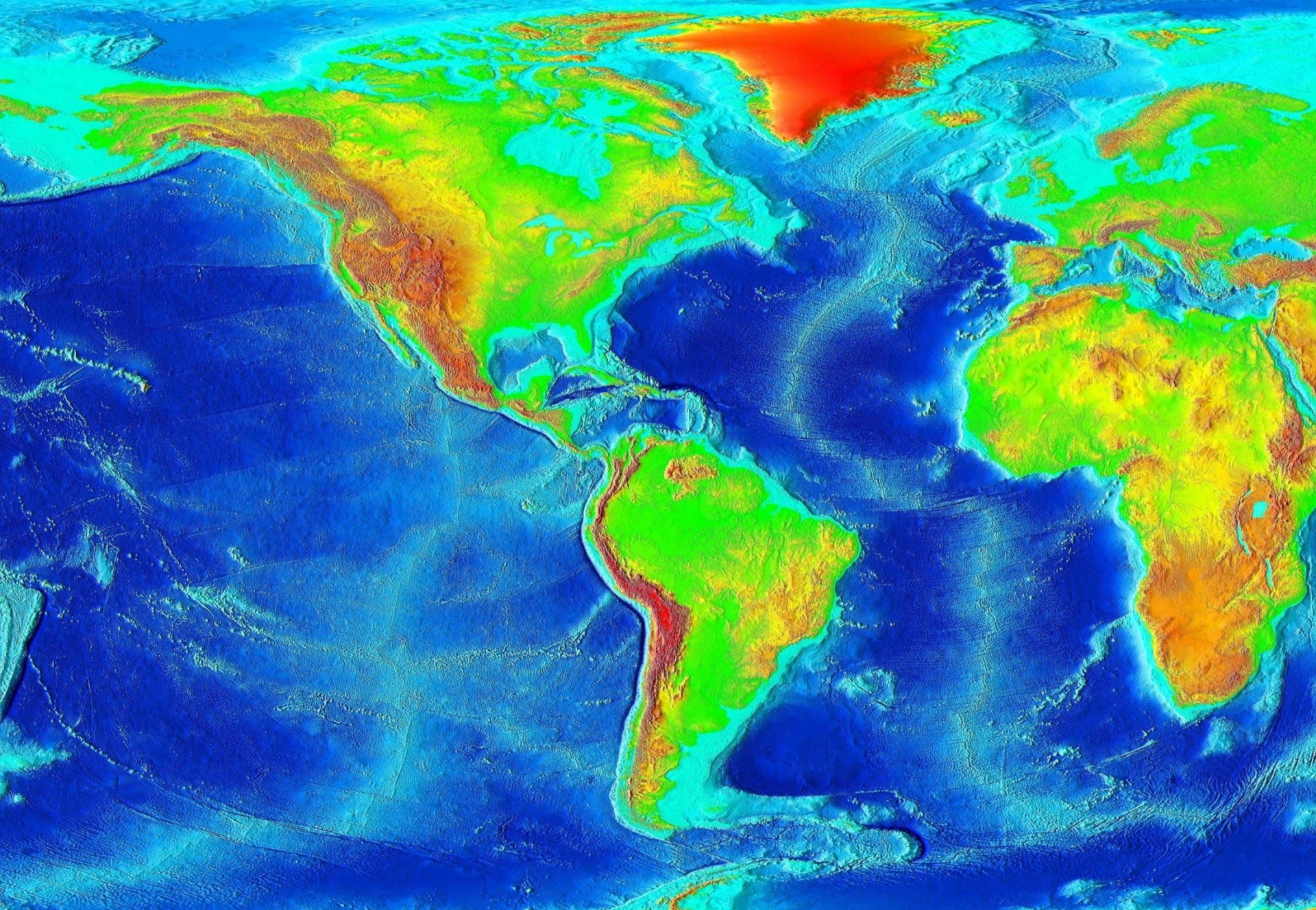
NORTH  
AMERICA

Continental  
Shelf

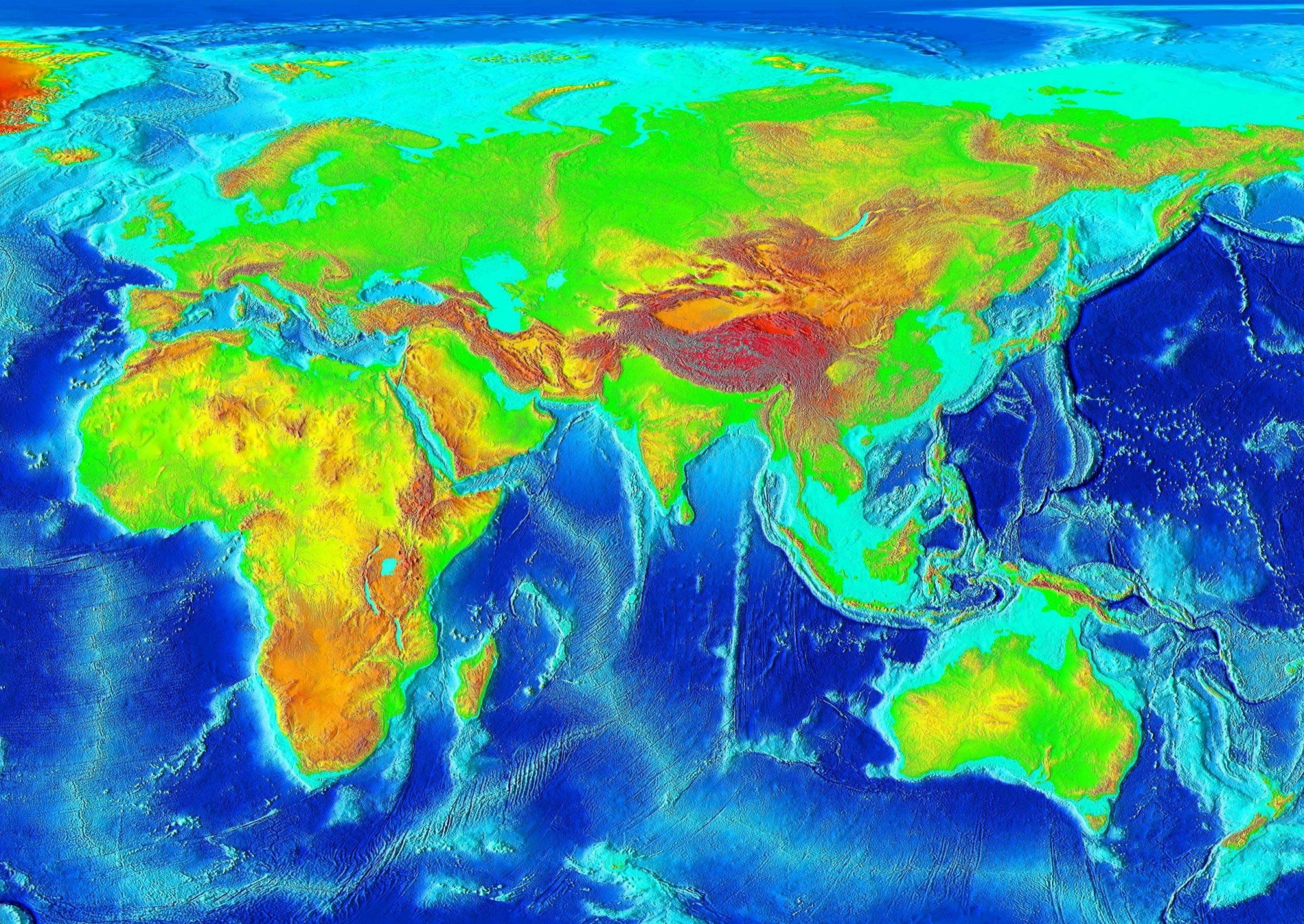














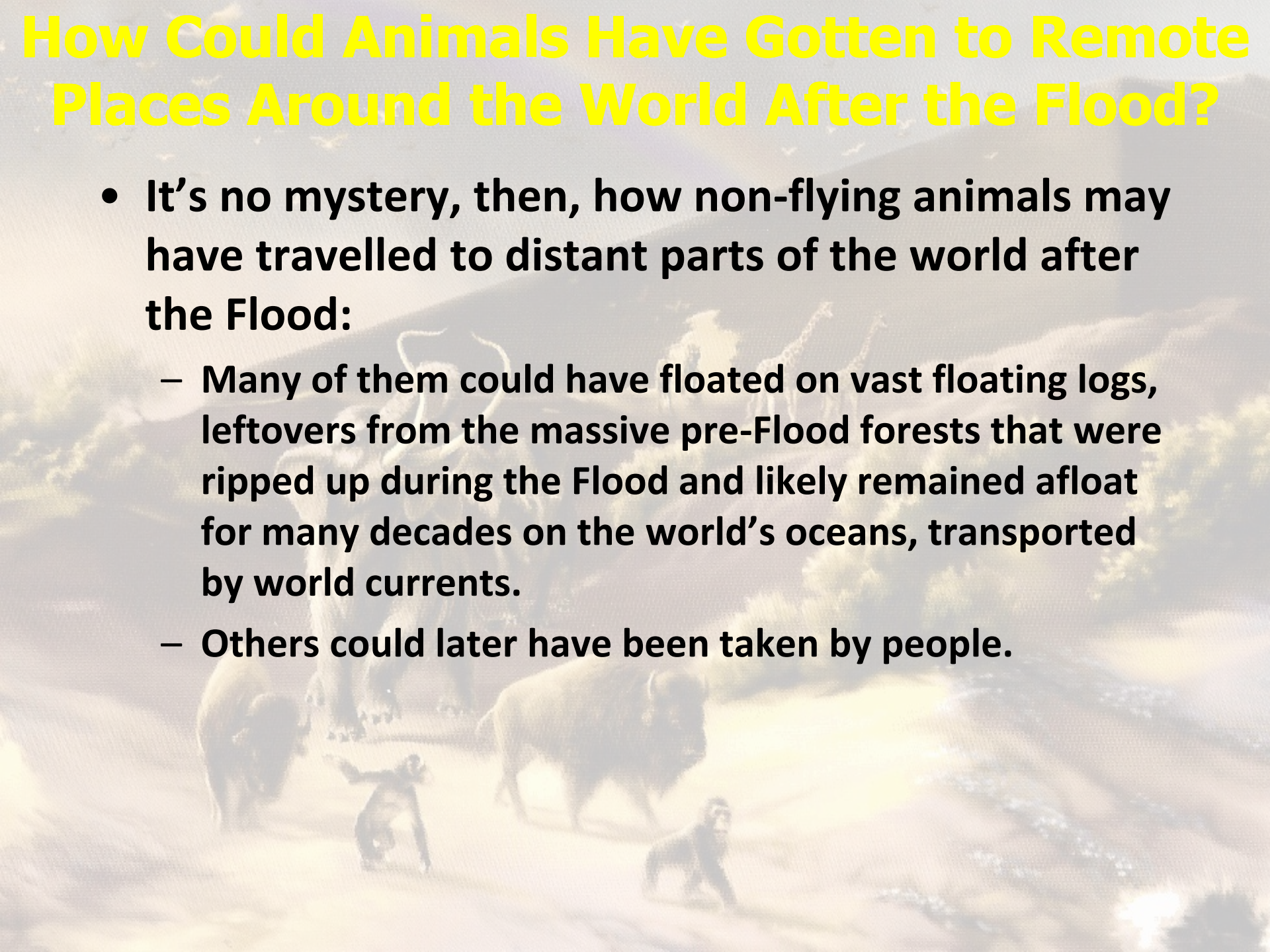
# How Could Animals Have Gotten to Remote Places Around the World After the Flood?

- Various other theories (besides the exposure of the continental shelves) have been suggested.
- For example, comparisons can be made with more modern recolonizations by animals. The *Encyclopædia Britannica* has the following to say about Surtsey Island and Krakatoa and the multiplication of species:
  - *Six months after the eruption of a volcano on the island of Surtsey off the coast of Iceland in 1963, the island had been colonized by a few bacteria, molds, insects, and birds. Within about a year of the eruption of a volcano on the island of Krakatoa in the tropical Pacific in 1883, a few grass species, insects, and vertebrates had taken hold. On both Surtsey and Krakatoa, only a few decades had elapsed before hundreds of species reached the islands. Not all species are able to take hold and become permanently established, but eventually the island communities stabilize into a dynamic equilibrium.*



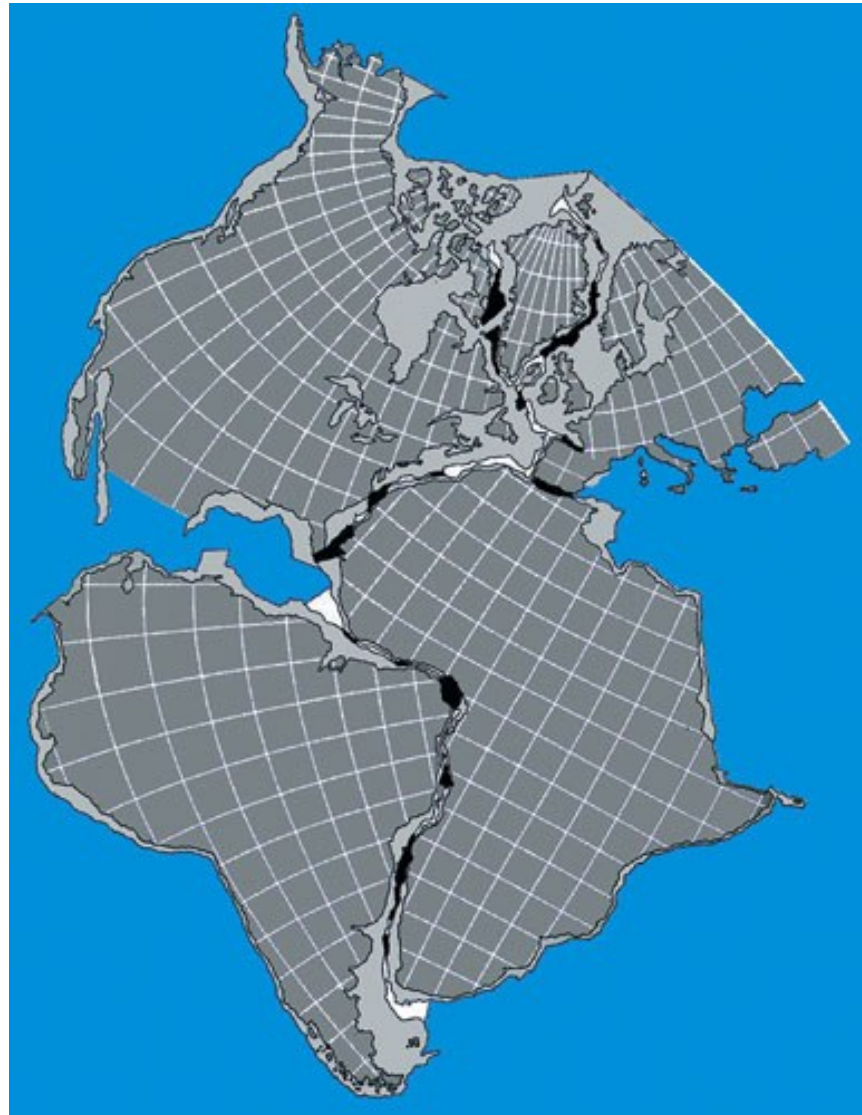
# How Could Animals Have Gotten to Remote Places Around the World After the Flood?

- It's no mystery, then, how non-flying animals may have travelled to distant parts of the world after the Flood:
  - Many of them could have floated on vast floating logs, leftovers from the massive pre-Flood forests that were ripped up during the Flood and likely remained afloat for many decades on the world's oceans, transported by world currents.
  - Others could later have been taken by people.





# What About Continental Drift?



# What About Continental Drift?

- Before the 1960s, most evolutionary geologists were adamant that the continents were stationary.
- A handful promoted the notion that the continents had moved (continental drift), but they were accused by the majority of indulging in pseudo-scientific fantasy.
- Today, that opinion has reversed—plate tectonics, incorporating continental drift, is the ruling theory.
- Interestingly, it was a creationist, Antonio Snider, who in 1859 first proposed horizontal movement of continents catastrophically during the Genesis flood.



# What About Continental Drift?

- The Bible is silent about plate tectonics.
- Some creationists believe the concept is helpful in explaining earth's history. Other creationists disagree with the concept.
- The idea is quite new and much work has yet to be done to flesh out the details.
- Those who believe in the concept may end up making major modifications to the theory, or future discoveries could cause them to abandon the model altogether.
- Such is the nature of scientific progress. Scientific models come and go, "But the word of the Lord endures forever" (1 Peter 1:25).



# What About the Ice Age?

What role (if any) did the Flood play?

- The information for this section was mostly taken from an article in Answers Magazine; Vol. 2 No. 2; “*Setting the Stage for an Ice Age*”; p. 59-61



# What About the Ice Age?

## Background

- The Flood of Noah's day was the greatest catastrophe in earth history, and it involved much more than rain.
- As we have already seen, it reshaped the surface of the earth, with massive volcanoes and earthquakes that dwarf anything observed in modern times.
- Such a tremendous catastrophe could have radically altered the earth's climate, resulting in an **Ice Age**.

# What About the Ice Age?

## Definitions

- **Ice Age:** An ice age is defined as a time of extensive glacial activity in which a much greater portion of the earth's land is covered by ice.



# Extent of the Ice Age



**During the Ice Age, nearly 30% of the land surface of the earth was covered by ice, which is identified in white. Today, only 10% of the earth's surface is covered by ice.**

# What About the Ice Age?

The background of the slide features a scenic view of a glacier. In the foreground, a large, jagged iceberg floats in the water, with smaller icebergs visible further away. The glacier itself is a massive, blue-tinged wall of ice, showing signs of erosion and movement. The sky is a pale, hazy blue, and the water is a calm, light blue.

## Definitions

- **Glacier:** a large mass of ice that has accumulated from snow over the years and is slowly moving from a higher place.
- **Moraines:** stones, boulders, and debris that have been carried and dropped by a glacier.



# Evidence of an Ice Age



**We know the extent of the Ice Age because the glaciers left features on the landscape similar to features we observe around glaciers today, such as the lateral moraine seen in the photo above.**

# What Causes an Ice Age?

## Causes for an Ice Age

- Scientists have collected mounds of evidence proving that ice once covered most of Canada and parts of the northern and central United States as well as other parts of the world.
- But the truth is, evolutionary scientists still do not know the cause of the Ice Age as succinctly stated by David Alt:  
“Although theories abound, no one really knows what causes ice ages.”



# What Causes an Ice Age?

## Recipe for an Ice Age

- **Two** things are thought to be required for there to be an Ice Age:
  - Cool Summers
  - Heavy Snow

# What Causes an Ice Age?

## The Flood-Caused Ice Age

- **Two** particular aspects of the Flood could have been instrumental in causing the Ice Age:
  - **Extensive Volcanic Activity** (during and after the Flood)
  - **Warm Oceans** (following the Flood)



# The Flood-Caused Ice Age



## Extensive Volcanic Activity

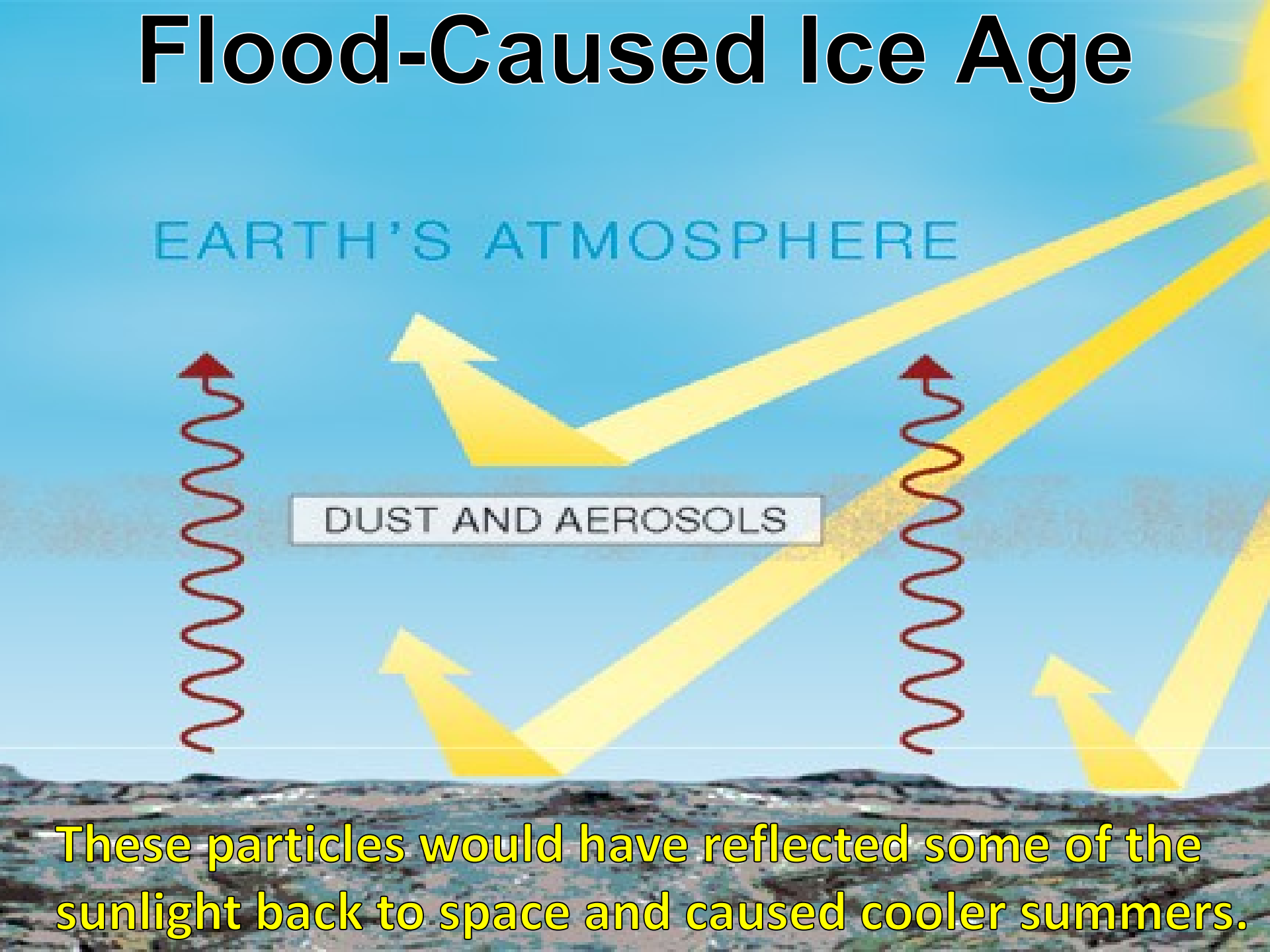
- As we have already seen, the flood was accompanied by a tremendous amount of volcanic activity.
- This would have caused a shroud of volcanic dust and aerosols (very small particles) to be cast into the earth's atmosphere and remain there for several years following the Flood.

# Flood-Caused Ice Age

EARTH'S ATMOSPHERE

DUST AND AEROSOLS

These particles would have reflected some of the sunlight back to space and caused cooler summers.





# The Flood-Caused Ice Age

A large, jagged iceberg floats in the ocean, its surface covered in a network of cracks and ridges. The sky is a pale, hazy blue, and the water is a deep, calm blue. The iceberg's reflection is visible on the water's surface.

## Extensive Volcanic Activity

- Extensive volcanic activity probably continued for a number of years after the Flood gradually declining as crustal magma solidified and crustal movements lessened.
- This would have continued to push dust and aerosols into the atmosphere.
- The fact that Ice cores taken from Greenland and Antarctica show abundant volcanic particles and acids in the sections associated with the Ice Age seems to confirm the idea that there was a great deal of volcanic activity during the Ice Age.

# The Flood-Caused Ice Age

A large, jagged iceberg floats in the ocean under a clear sky. The iceberg's surface is textured with ridges and grooves, and its reflection is visible in the calm water. The scene is set against a backdrop of a vast, open sea and a distant horizon.

## Warm Oceans

- An Ice Age also requires huge amounts of water in the atmosphere, which then falls as snow.
- But where would the tremendous amounts of water necessary to saturate the atmosphere have come from?



# The Flood-Caused Ice Age



## Warm Oceans

- The Genesis account records that the “fountains of the great deep” burst forth during the Flood (Genesis 7:11).
- Perhaps these “fountains” that “burst forth” were the result of movements in the earth’s crust that released high-pressure outflows of deep, hot water reservoirs
- Both massive volcanic activity and large underwater lava flows that occurred during the flood probably added heat to the oceans.

# The Flood-Caused Ice Age



## Warm Oceans

- If there were rapid currents during the Flood, it would have mixed the warm water, driving it from pole to pole.
- Warm water would also have prevented the formation of ice in the sea.
- As a result, the warm ocean would have a much higher level of evaporation than now occurs in the modern cool ocean.
- Warm water and cooler continents (resulting from volcanic dust) are a recipe for the powerful and continuous snowstorms needed for an Ice Age to occur.



# How Long Was the Ice Age?

## The Rapid Ice Age

- Evolutionary Ice Age views say that there were about 30 separate ice ages over the past 2.5 million years, with the most recent ones lasting 100,000 years and the earlier ones lasting 40,000 years.
- Michael Oard, a retired meteorologist from the National Weather Service with Answers in Genesis, believes that by starting with the Bible's history of the Flood and then looking at the evidence from this biblical perspective, we can better understand both how the Ice Age started and how it could have taken place in a much shorter period of time.

# How Long Was the Ice Age?

## The Rapid Ice Age

- Oard estimates that the Ice Age caused by the Flood lasted for a total of about 700 years (500 years to accumulate, 200 years to melt).
- Oard believes that based on what we know about the impact of the global Flood on the continents, sediments, and climate, an ice age would not require hundreds of thousands to millions of years, as taught by the evolutionary views.