earth, 18to govern the day and the night, and to separate light from darkness. And God saw that it was good. 19And there was evening, and there was morning-the fourth

earth across the expanse of

the sky." 21So God created the

great creatures of the sea and

kinds. And God saw that it was good.

make man in our image, in our likeness, and let them rule over the fish of the sea and the birds of the air, over the live

made, and it was very good. and there was evening, and 26Then God said, "Let us there was morning-the sixth

Thus the heavens and the earth were completed in all

he resteda from all his work

there he put the man he had formed. And the LORD God made all kinds of trees grow out of the ground-trees that were pleasing to the eye and good for food. In the

10A river watering the garden flowed from Eden; from there it was separated into four headwaters. 11The name of the first is the Pishon; it winds through the entire and of Havilah, where there is gold. 12 (The gold of that land is good: aromatic resine and onvx

8Now the LORD God had planted

a garden in the east, in Eden; and

through the entire land of Cush. The name of the third river is the Figris: it runs along the east side of Asshur. And the fourth river is the Euphrates.

15The LORD God took the man and put him in the Garden of Eden o work it and take care of it. 16And he LORD God commanded the man, "You are free to eat from any tree in the garden; 17but you must not eat from the tree of the knowledge of good and evil, for when you eat of it you will surely die.

18The LORD God said, "It is not good for the man to be alone. I will make a helper suitable for him.

19 Now the Lorp God had formed

olical Date the f

27So God created man in his own in the image of God he

Calibration of Genesis 11

geneology puts Adam's time at

 $60,000 \pm 30,000$ years ago.

ing to their kinds: livestock, each according to its kind."

Then God said, "I give you every seed-bearing plant on the face of the whole earth and every tree that has fruit with seed in it. They will be yours for food. 30 And to all the birds of the air and

shrub of the field had vet appeared on the earth and no plant of the field had yet sprung up, for the LORD God had not sent rain on the earth and there was no man to work the ground, but streams came up from the earth and waground - 7the Lord God formed the mand from the dust of the ground and breathed into his nos-

earth, 18to govern the day and the night, and to separate light from darkness. And God saw that it was good. 19And there was evening, and there was morning-the fourth

earth across the expanse of the sky," 21So God created the

 $40,000 \pm 15,000$ years ago.

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26Then God said, "Let us make man in our image, in our likeness, and let them rule over the fish of the sea and the birds of the air, over the live

lical Date the land

Dates for Abraham and Peleg

permit calibration of Genesis 11

geneology: Noah's flood =

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Thus the heavens and the earth were completed in all

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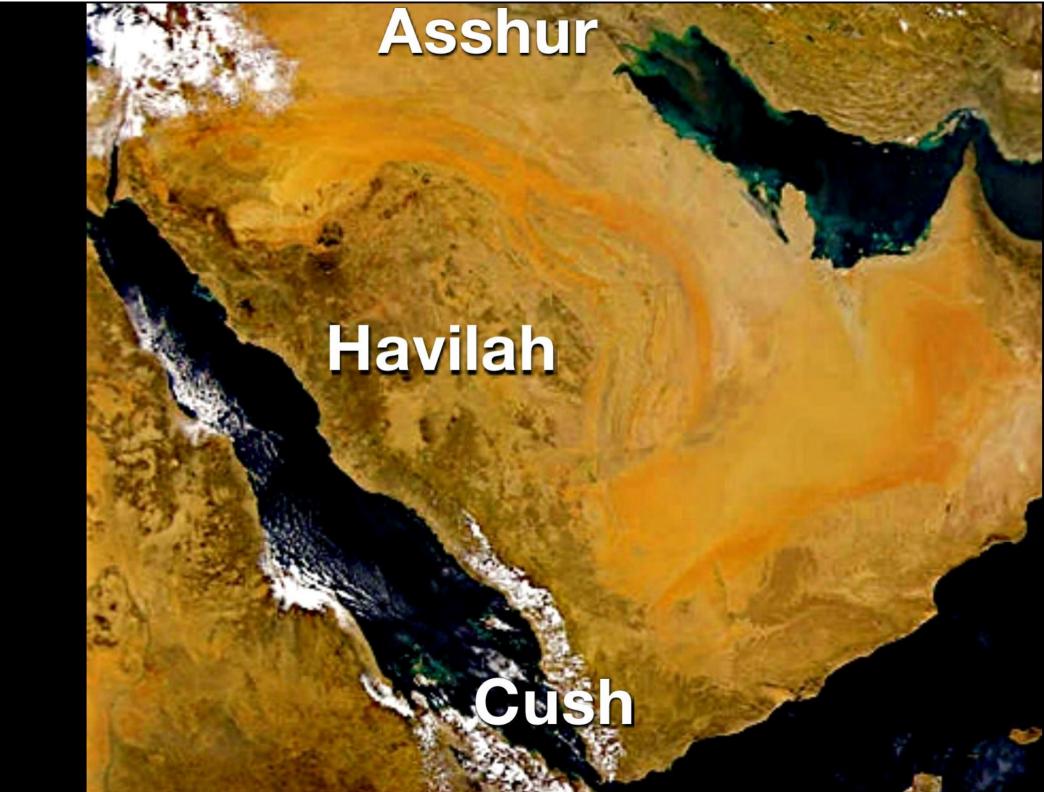
there he put the man he had

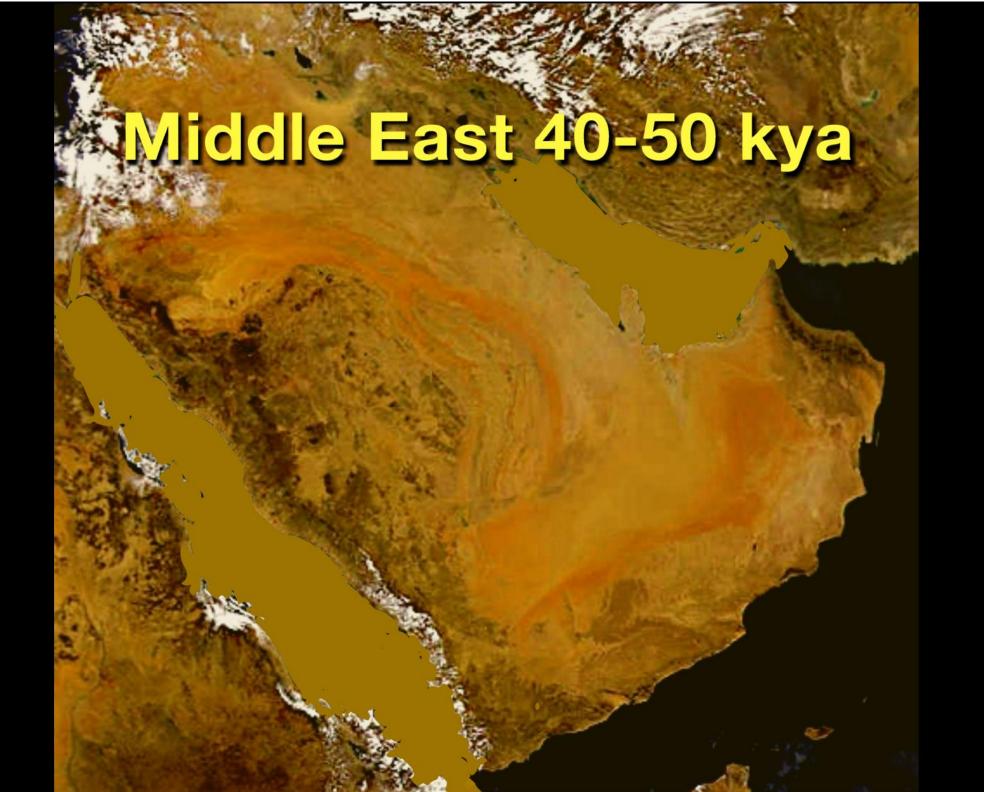
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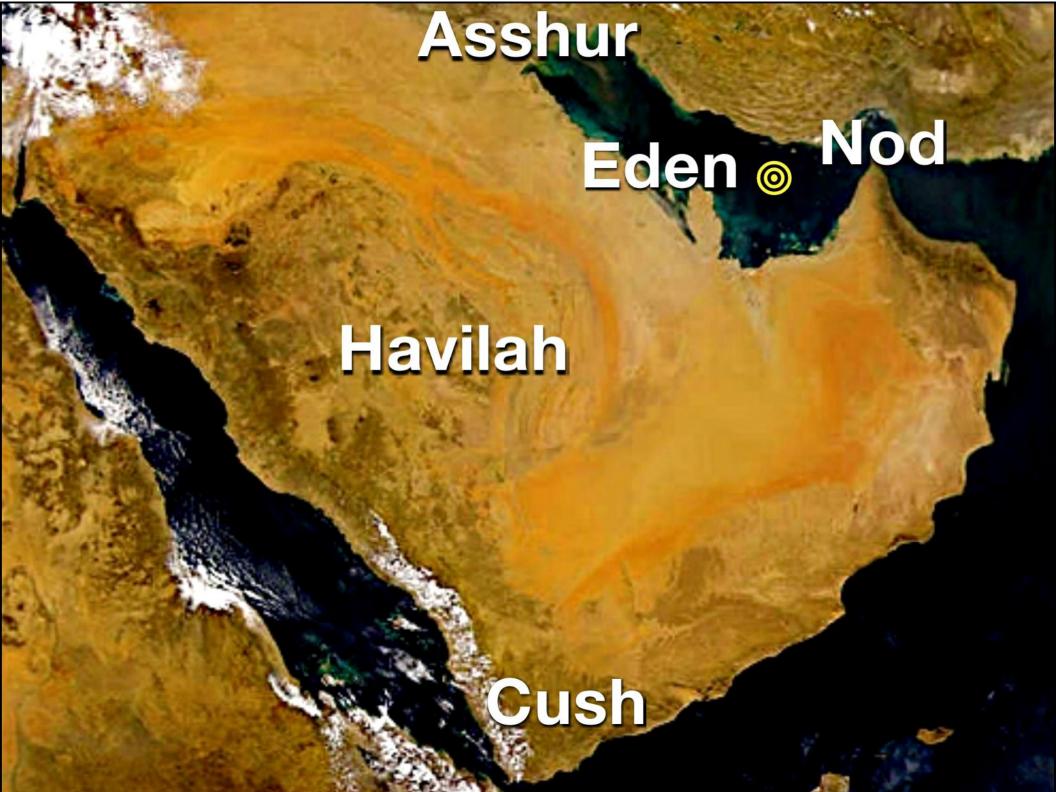












earth, 18 to govern the day and the night, and to separate

kinds. And God saw that was good.

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made, and it was very good. And there was evening, and there was morning—the sixth day.

Ps 104:24

*Now the Lord God had planted garden in the east, in Eden; and here he put the man he had ormed. *And the Lord God made ll kinds of trees grow out of the

Biblical Date for Adam

the expanse of 2 God created man in his own image.

12 So God created man in his own image.

13 The tame of God he image of Go

Dates for Abraham and Peleg permit calibration of Genesis 11 geneology: Adam's birthday = 60,000 ± 30,000 years ago.

on the face of the whole war and every tree that has full with seed in it. They will be yours for food. "And to all the beasts of the earth and all the birds of the air and all the creatures that move on the yound, everything that have

every green plant for food. And it was so. Ps 104:14.2

o in verse 6 6 Or mist 47 The Hebrew for man



Cultural Big Bangs

art and music 33,000 BP

jewelry 40,000 BP

clothing 40,000 BP

language 40,000 BP

complex tools 40,000 BP

Chromosome 21

Only three haplotypes (sets of mutated nucleotides) describe 80% of the human population.

So few indicates a recent origin for humanity.















The 7,000 Sumatran orangutans showed more genetic diversity than the 45,000 orangutans in Borneo.



"We don't fully understand the relationship between genetic diversity and population size."

—William Arnos, quoted by John Milton in *Nature News*, Jan. 26, 2011