

Science and the Bible E-Zine

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Motto: The Simple Truth

Mission: To reach the intellectually honest skeptic and critical thinker with an intellectually honest approach to the credibility of ancient scriptures, their credibility being attested to by their publication of information before its discovery, obscured for centuries, then independently discovered by modern science, verifying its reality and credibility.

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"Truth: That which is in accord with fact and reality."

This is written so that you may believe the bible
because of science rather than in spite of science.

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1) What's Happening at Science and the Bible?

By Max B. Frederick, AnOldScientist

Last month, the article was about the Book of Job.

A sequence of events that occurred during beginning times was presented as it is presented in the book of Job. I expected response from theologians based on traditional biblical differences.

I got immediate response from a scientist questioning that sequence of events as not being a valid history of the earth. His objection was essentially based upon a history of the earth we were taught in college while majoring in geology some forty years ago.

He reiterated a sequence of events that did not include all the modern science discovery since that time.

Then he asked the rhetorical question,

“Where is that account found in the bible?”

My response is, “That account is not found in the bible.”

The account found in the bible is more in accord with the even more recent updated version that modern science has gradually progressed toward over the past forty years since we were taught this obsolete version in college.

So, what is that more updated modern science version?

2) **What Really Happened?**

By **Max B. Frederick, AnOldScientist**

The Religious View:

Many religious bible scholars teach that God inspired some humans to write a book that is true.

Those same theologians also interpret that same book to tell us how everything began in a way that is entirely different than reality.

That cannot be true. Which is not true, the book, or the interpretation?

The problem is in the order of the sequence of events.

What the ancient scriptures of the bible really say about how things really happened in the beginning is not what theologians have traditionally taught us that the bible says.

How could theologians be either ignorant of what the bible really says, or intentionally ignore what it says?

Most bible scholars stop looking for information about the beginning times when they get to the end of about the first chapter or so.

From there on, they have used imagination and logic to put together the traditional religious view of what the bible says.

What the bible really says about the beginnings is much more detailed than any theologian could be expected to imagine. The sequence of events and the technical details are more in accord with reality than any scientist could ever hope for.

IF that official traditional version of the biblical creation story is so out of contact with reality, (which it is...)

And IF the official traditional version of the biblical creation story is what the bible really says, (which it isn't...)

Then, How could an intellectually honest person believe anything the bible says?

The Secular View:

The secular view is different.

Secular scholars understand how out of touch with reality the traditional religious interpretation of the traditional biblical sequence of beginning events really is.

Those scholars assume that religious view is what the bible really says.

That makes it easy for them to explain the problem.

Many secular scholars teach that the bible was written by very intelligent men.

Those intelligent men got it wrong because they did not know what really happened. They simply lived before modern science discovered how it really happened. And there is no such thing as a god that could have told them what really happened—so they got it wrong.

But that explanation also has something wrong with it.

The bible does get it right before modern science actually discovered it. Theologians just misinterpreted it.

That gives the secular scholar a problem.

Humans who do not know what really happened cannot make up the correct stuff like what the bible really says.

Not only that, humans who do not know what really happened cannot even maintain a correct view even when they have it in writing.

There is a true principle of forensics that has something to say here.

A human who was not there and who does not know what happened, cannot make up an accurate account of a crime. That is a law of forensics. You know, the science of figuring out who committed a crime.

Beyond that, not only are humans incapable of producing that quality of correctness, it is worse than that. Even when starting with a true version, humans cannot keep from causing the information to deteriorate as they think they are improving it. That is another law of forensics.

Theologians tried to violate those laws of forensics.

And they got caught by secular scholars.

To sum up the situation:

Many religious bible scholars and secular scholars agree on what they think the bible says about the beginnings.

I guess that secular scholars seem to think bible scholars know their bible.

And so, they both do not really know what the bible really says.

The Biblical View:

If any of those scholars, either religious or secular, would look further, into other parts of the bible, or even into the original language of the ancient scriptures, they would find the bible does have a very correct description of what really happened.

Just what does the bible really say about the beginnings?

There are many creation accounts recorded in the bible, not just one up front.

These many accounts record many technical details of the beginning and development of all creation, many of these details could not have been known by humans before they were discovered by modern science.

A simple note of explanation may be in order here: It is much easier to recognize what the ancient scriptures originally said in the realm of reality when you go all the way back to the original language. That is because the English versions are based on religious interpretation. Theologians had already inserted their interpretation of what they thought the bible said about a subject in which reality had not yet been discovered by modern science.

Like I said, there are many creation accounts found in the bible. There are about three dozen major ones in all. Also, there are many minor ones.

When you put all the biblical creation accounts together, a time-line of items appears. That time-line has no absolute time scale, but it stretches all the way from before the beginning of the current universe, to after the ending of the current universe.

That biblical time-line records the verifiably correct order of the events that are in the past.

That correct order is not the order that bible scholars traditionally teach us that the bible says.

That correct order is not even the exact order that modern science taught some forty years ago.

What went so wrong?

That correct order is more in accord with what modern science is currently discovering since this old scientist went to college.

The complete, chronologically ordered, list of biblical events and details is about as long as the modern science list below. To include that list here with adequate explanation would make this E-Zine too long. Maybe next month we can look at the details of the complete list of what the bible really says about the beginnings.

A version of that list as published in my book, *Eyewitness to the Origins* in 2008, can be found on the internet at,

<http://www.scienceandthebible.net/articles/BibleChronology.pdf>

The Modern Science View:

Lets start by looking at the details of what modern science taught about the beginnings some forty years ago, then what modern science is currently coming to. Never mind the fact that some sixty years ago, modern science was having a hard time accepting the idea that there even was a beginning. (“Big Bang” was not invented until the nineteen-sixties.)

Sequence of Events we were Taught Some Forty Years Ago: (brief version)

(Actually, the portions in *italics* were added more recently.)

In the beginning, Earth was molten.

By the time it cooled enough to have solid rocks, it was still too hot for liquid water to exist.

Water, along with other volatile gasses, escaped from internal to the earth and accumulated as an atmosphere.

Eventually, it would have rained.

However, there may not have actually been a lot of water early on.

Asteroids provided extra-terrestrial water over a long period of time.

Thus, Earth may have been all land to begin with,

and then the lower portions were drowned by asteroid-imported water.

The land did not rise; [to emerge from below sea level]

the lower portions were flooded by the new water!

Actually, we were taught at that time, some forty years ago, that the earth was like a terrarium, neither losing water to outer space, nor gaining water from outer space. The oceans therefore had to be filled from water out gassing from the interior of the planet earth. The theory of the ocean being filled with water from outer space is a later development. That was hardly even imagined until a significant discovery was made back in the early 1980's.

The part about the continents growing to their current height of over 4 kilometers above sea floor level, and finally emerging from below sea level sometime after they were inundated by ocean sometime in the beginning times sequence that scientists call the "Archaean," was not popularized in modern science until even more recently than that.

Updated Sequence from Observations of the Cosmos & Geologic Column:

Anyway, in this issue I am presenting a rough draft of the current updated thinking of modern science of the sequence of events, dividing the sequence of events into divisions using the names invented by modern science for those divisions in the sequence of events. This is a rough draft without references. References are long and tedious and would be a distraction at this current level of presentation. Like I said, it is a work in progress so feedback is appropriate. If you need a particular reference, if you question any particular detail in the sequence of events, let me know and I will resolve the order of events, or furnish a reference.

This list includes Stages of Development, Significant Events, and Details of Conditions that were Present at the various times along the time-line—Just like the list of biblical details.

This list is by no means complete, nor all-inclusive. It is intentionally limited to items that are mentioned in the biblical accounts, or related to items mentioned in the

biblical accounts.

Definitions:

The universe is the all-inclusive interdependent existence of energy, matter space and time.

The strange sounding names at the headings of the various divisions are the names scientists have assigned to the various stages in the development of the earth and life on the earth.

ETERNITY PAST (Pre-Universe):

There had to have been existence of some unknown nature before the beginning of the universe because conditions had to have been set up for that event to occur.

Before that event, conditions were set up to cause that event.

Whatever set up those conditions, it included all the order necessary to develop into the universe of today.

Before the universe came into being, time as we know it may or may not have existed, perhaps in a different dimension.

PRE-HADEAN:

The universe had an origin, a beginning.

There are various theories as to the events involved in the origin of the universe, the most well known by the general public is some version of the one the scientists called the "Big Bang" back in the 1960's.

The Universe may have began when interdependent energy, matter, space and time simultaneously came into existence [or maybe escaped some hold.]

Light is one of the forms of energy that [became?] abundant at the origin of the Universe.

(Light is currently the form of energy which provides a steady transfer of energy from the sun to the planet earth, where it is relied upon to be a steady source of energy to allow the existence of life.)

From the beginning, the universe expanded from a central location. The universe continues to expand from that point of origin.

The galaxies formed.

HADEAN:

Early Hadean:

The sun of our solar system developed

Many stars were developing simultaneously with our sun

The formation of the solar system.

The planet earth came into being after the formation of the sun.

It came into being far after the beginning of the universe, yet without life of any kind

While the planet earth developed, other planets developed simultaneously

Water was, and/or had been, abundant in the outer space of the solar system.

A Hydrologic Cycle developed in outer space of the Solar System.

Small Comets developed to transport water in toward the sun from the outer reaches of the solar system.

Solar winds existed in the outer space of the solar system.
Solar winds transport the components of water from the interior of the solar system to the outer reaches of the solar system.
The planet earth first existed without oceans. It had a hot molten surface. [Generally, the biblical "foundations of the earth" refers to what scientists call the "mantle," or "molten mantle," (under continental and oceanic crust)
When the Planet Earth cooled sufficiently to have a solid crust, it first existed without surface liquid water.
And still without life.
Juvenile surface water appeared first (ejected from interior by volcanic action as from fountains.
The planet earth existed with juvenile surface water before it had deep oceans.
At that stage of development, the Earth existed without soil.
Atmosphere developed, (primordial, with lack of oxygen.)
One of the functions of the atmosphere is to collect water from outer space into oceans by capturing water from small comets.
Water from outer space was added to juvenile water to form oceans.
The oceans were filled to some depth by the collection of water from outer space.
Middle Hadean:
Filling of the oceans continued until covering even the then existing accumulations of lighter continental material
Before the continents emerged, ocean covered planet earth including continental crust.
There were no continents above sea level.
Late Hadean:
Initial gathering of the continental material into continents that emerged to be above sea level. When the continental material gathered and emerged to be above sea level, all the conditions necessary for erosion and deposition of erosion products were present, and thus began the deposition of the sedimentary geologic column.

Cosmos/Column Boundary

ARCHAEAN:
Initial Gathering of Continental Material. (Earth) After the oceans covered the planet earth, continental material gathered and emerged above sea level. These continents moved on the surface of the earth. They were supported by floating on molten mantle below, and were surrounded by water. Multiple continents developed. (Plate Tectonics)
Lithologic Cycle - Mountains rose by the periodic addition of buoyant rock material to their roots and then by being buoyed up by the mantle.
Isostatic Balance. The continents achieve vertical equilibrium by floating on viscous molten mantle
Mountain Building: Mountains rose by the periodic addition of buoyant material to their roots and then by being buoyed up by the mantle. (Plate Tectonics)
Hydrologic Cycle Established. (This allowed life to later be possible far inland from the sea.)

Atmosphere still lacked abundant oxygen.
Photosynthesis not yet fully developed.
Anaerobic life forms.

PROTEROZOIC:

Stable continents appeared and grew.
Atmosphere became habitable as well as a part of hydrologic cycle.
Carbon/hydrocarbon cycle developed to support life forms.
The continents joined in a single supercontinent called Rodinia.
Beginning of long periods of stable ecology after continental rise.
Development of Photosynthesis, the basis of the food chain.

PALEOZOIC:

Atmosphere had reached modern level of oxygen
Animal Zoological (DNA) Biogenesis developed
Food chain increased supporting larger life forms.
Food Chain, Basis for more diverse ecology
Circadian Cycle develops among animal life

Cambrian:

Sustained Ecology Era
Continents break up (Plate Tectonics)
Major Mass Extinction

Ordovician:

Sustained Ecology Era
Sea life becomes abundant.
Followed by another major mass extinction.

Silurian:

Beginning of new era of sustained ecology
Climate stabilizes into global warming era
All continents more habitable worldwide
Melting ice
Rise in sea level
First vascular plants.
First fish with Jaws

Devonian:

Plant Seeds (DNA) Biogenesis
Era ends with another mass extinction

Carboniferous:

First Amniota eggs (the egg form common to turtles, lizards, birds, dinosaurs and mammals)
Era of sustained ecology with global warming and increased habitability.
Rainforests abundant.

Permian:

Era ends with largest mass extinction recorded in the history of the earth.

MESOZOIC:

Triassic:

Survivors of mass extinction spread and recolonized.
Continents again reform into one supercontinent Pangaea.
Era of sustained ecology.
Ends with another mass extinction.

Jurassic:

First Birds
Large life forms form and thrive
Sustained Ecology/biogenesis

Cretaceous:

First Flowering (Seeding) Plants
Break up of supercontinent Pangaea.
Era ends with mass extinction caused by meteorite crash into earth.
Mass Extinction by great flood
Cosmic Night/Great Storm
Order and Ecology Restored after Mass Extinction
Continuation of cycle of Extinction & Renewal (Punctuated Equilibrium)

CENOZOIC:

Stable Ecology After Mass Extinction
Age of mammals, flowering Plants, Insects...

Tertiary:

Era of tropical or sub-tropical climate
Man appeared on earth
Tropical Ecology (as in Global Warming)
Minor Mass Extinction with Tectonic volcanism.

Quaternary:**Pleistocene:**

Ecology Restored, Yet colder, harsher habitat.
Ice ages
Human species flourishes.
Another Mass Extinction (North American Large Animal Extinction.)

Holocene:

Historical Past of Man. Proliferation of civilization after near extinction.
Living in present & Future

END OF TIME:

Scientists have speculated that since the universe had a beginning, it will have an end.
Another Mass Extinction. [If the universe ends, all current life forms will be extinct.]

ETERNITY FUTURE:

As with before the existence of the universe something existed, scientists speculate that something similar is possible.

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