HISTORY OF OUR PLANET

From 875 billion years ago

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"At first life was a struggle for existence; now, for a standard of living: next it will be for quality of thinking".

The Urantia Book, paper 81-6, p.910

INTRODUCTION

Learning about the history of our planet Urantia billions of years ago is a very difficult task. Historical science divides the history of the planet in two parts: prehistory and written history. The prehistory covers the time from the appearance of the first human being and the history beginning of the written story starts from the first scriptures, found in the Sumerian population of Mesopotamia and has an age of approximately six thousand years.

Therefore the prehistory has no written documents and its study depends on the work of a variety of scientists paleontologists, archaeologists who analyzed the human remains and traces of the tools of the work in stone, copper, bronze found casually in different parts of the world.

The determination of the ages of the fossils discovered is performed by using radioactive isotopes. The isotope decay rate can be used to calculate ages millions of years ago. These methods do not give reliable results, but there are no other more accurate methods to determine such old ages.

Method Carbon 14	Methods: Potassium 40 - Argon 40 Rubidium 87 - Strontium 87
Ages of organic material up to 40,000 years ago.	Inorganic materials Geological ages of the planet for billions of years ago.

Many scientific books and articles have been written about the prehistory of our planet. The authors describe their research carried out in different parts of the planet. Among scientists there are many controversies and discussions and as time passes the views are changed and new versions of the events appear. For example, until the year 1950 official science believed that the Asian continent was the cradle of the first human being, but now they say that the first human beings appeared in Africa more than two million years ago.

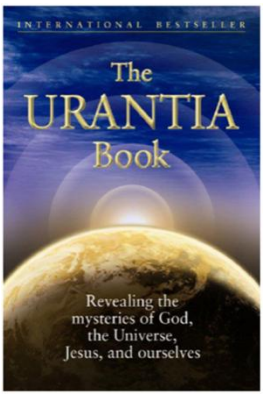
Describing the geological history of our planet is an even more difficult task, because it covers thousands of millions of years and there are no methods to determine the precise age of ancient geological events. Geology recognizes that until the early stages of the solidification of the land mass, and the emergence of a permanent crust, no evidence of the passage of time was left. These primitive stages are still a mystery to science.

The latest proposals of scientists about the appearance of water on the planet are published in the "Science" journal where it is assumed that "the water came via asteroids 3,900,000,000 years ago.

It is still very difficult for scientists to discover the truth about the formation of the solar system and planet Earth. It is also difficult to find the explanation of the appearance of life and the evolutionary development of plants, animals and humans. Scientific researchers are striving to know the truth, using the latest technology and the most advanced mathematical calculations of the theoretical models, but still have a long way to go.

There are large uncertainties in the description of the history, prehistory and emergence of life on our planet. There are also many scientists in several countries who are on the fringe and have scientific theories even bolder and closer to the truth than the official science.

In this article we present a summary of the history of our planet as described in The Urantia Book. The documents which formed this book were written by heavenly beings and the information about the history of our planet was saved in the celestial records. Urantia is the name of our heavenly planet Earth.



In order to be able to understand the true history of our planet, we should know that the creation of the Universe, the planting of life and its evolution are under God's mandate and are carried out by the heavenly beings known as Force Organizers, Life Carriers and other beings who are in the spiritual state, invisible to us and were created with the specific skills for different purposes in the management and administration of the Universe.

The planting and the evolution of life on a planet is guided by the Life Carriers via genetic mutations. New species of animals appear "suddenly", and one species of animal arises another species as a totallly differen species.. When the first human being was born, the Life Carriers leave, because according to the universal laws, managing the next evolutionary stage is not permitted.

At the end of the article a table is presented where you can find a comparison of ages and historical events known to our science and those described in The Urantia Book.

People who have some degree of sensitivity to spiritual things can understand more easily the cosmic realities which are not materials. The people who do not have sensitivity to spiritual things, and rely only and materialistic-mechanical sciences can read this article and analyze the logic of the explanation of the cosmic realities which are unknown in our planet.

1. THE ANDRONOVER NEBULA

A part of the whole cosmos known as “The Universe of Space and Time”, where we live, is built in stages and organized and divided by Local Universes.

Every Local Universe is constructed from a nebula, or several nebulas. Inside the nebulas transformational processes of some cosmic pre-energies are carried out which originate in Paradise. These substances of force or pre-energy have various phases of transformation until they become Universal Energy known as Gravity. These cosmic processes are not understood to human beings because our sciences still cannot detect nor calculate their existence. The cosmic processes are managed by the Heavenly Divinity, and the human intellect thus far cannot detect even a footprint of Divine Intellect.

The changes of cosmic pre-energies that form a nebula last thousands of millions of years until the matter known to us appears. The materialization of the universal energy, Gravity, begins with the smallest of all particles and unknown to our science called the ultimaton. From this particle other particles are formed such as: electron, proton, etc. From the elemental particles atoms, molecules and every matter found in the periodic table are formed. Inside a nebula, matter is found in a gas state or a state of plasma. [1,2]

875,000,000,000 years ago - the great Andronover nebula began to form from which our solar system was born.

In order to arrange the birth of a nebula in a determined place in the Universe, a group of celestial beings called the Force Organizers have to come. The Force Organizers set in motion an enormous swirl of a substance called physical pre-energy, that comes from the Lower Heaven and is located in a determined place in the cosmos.

In the start, at its first stage, the nebula has the shape of a gigantic flat disc that rotates at high angled speeds and at the same time makes movements of expansion and

contraction. The time of expansion and contraction lasts thousands of millions of years.

700,000,000,000 years ago - the Andronover nebula continued to grow and reached gigantic proportions. All matter of subsequent creations was held inside a gigantic spatial wheel that would expand and contract periodically. [3]

After setting in motion the rotating movements of the nebula the Force Organizers abandons it and from this moment on the inherent qualities of cosmic energy ensure the progressive evolution of the nebula. The cosmic pre-energy goes through several transformations until becoming Universal Energy. This cosmic energy is not electromagnetic energy, nor nuclear, nor atomic.

In its second stage of development the nebula takes the form of a flat ellipsoid.

600,000,000,000 years ago - the Andronover nebula continued to turn and reached its maximum size. After the materialization of the particles and the formation of atoms, a new stage of development of the nebula began with the formation of suns.

In the third stage of development the nebula starts the expelling of suns that come out via two directions tangent to the plane of the nebula. 500,000,000,000 years ago - the first sun was born, which came off the maternal gravity of the nebula and commenced an escape course that determined its orbit of movement.

Suns so young take a little time in becoming spherical and commence their course as solitary stars of space.

In the fourth stage the suns come out though every direction, that is how the evolution of a nebula ends.

Third stage of development
Dispersion of suns on two sides.

8,000,000,000 years ago- the terminal eruption of the Andronover nebula began and lasted 2,000,000,000 years. The total number of suns that originated on the Andronover nebula is 1,013,628.

Some suns become solitary and are space stars, however, other suns form planetary systems; this is how our Solar System, Monmatia, was formed. [4,5]

6,000,000,000 years ago - our Sun was born which was number 1,013,572. Modern astrophysics calculates that our Sun was formed 4,500,000,000 years ago, from gas clouds and cosmic dust. Another theory says that the Sun was formed from a collapse of a "molecular cloud".

The great Andronover nebula is no more; however, it still lives in many solitary stars and in the suns with their planetary families. Now the central nucleus of the Andronover nebula burns with a reddish glow, illuminating 165 worlds that revolve around it.

In the early days our Sun had formidable convulsions on its surface and expelled great quantities of solar matter in the form of tongues of gas. It was a star of varying brightness following cycles of 3.5 days. Now our Sun experiences the appearance of sunspots that have a change of luminosity of 0.1% only, and the cycle lasts 11 years. [6]

2. MONMATIA SOLAR SYSTEM

4,500,000,000 years ago - the enormous planetary system Angona began its approach to our solitary sun. In the centre of the Angona system was a dark body with a great gravity pull, surrounded by many planets.

While the Angona system drew nearer, due to its enormous gravitational pull, the extrusions of our Sun would grow larger with every passage. Part of the matter disgorged by the Sun would return to the maternal body, but the other part would turn into independent bodies such as asteroids, meteorites that began revolving around the Sun. This situation lasted 500,000 years until the Angona system made its closest approach to the sun. This final approach caused a partial breakage of our Sun, when two great volumes of matter were disgorged via two opposite tangents.

From our Sun, from the Angona side, a giant column of solar gases was drawn out, rather pointed at both ends and bulging at the centre. This column was completely separated from the Sun and fractured in several parts, subsequently evolving into the twelve planets that formed our solar system Monmatia.

Soon the five inner and five outer planets formed from the cooling and condensing nucleuses in the less massive ends.

Saturn and Jupiter were formed from the more massive and bulging central portions. These two planets contained so much highly heated sun material that they shone with a brilliant light and were in reality the secondary suns for a short period. These two planets are the largest in the solar system and still remain largely gaseous to this day. The other ten planets soon reached the solidification stage and began to draw meteoric matter that circulated in nearby space. The fifth planet that was located between Mars and Jupiter broke to pieces; hence, a belt of asteroids was formed known by our astronomers. [7]

The gases expelled by the Sun from the opposite side of Angona were condensed, forming meteors and cosmic dust of the solar system, however, a good part of this matter was later recovered by the solar gravity pull to the extent that Angona was getting further away from the Sun.

The powerful gravity pull of Jupiter and Saturn captured Angona's cosmic matter from the beginning and transformed it and its satellites which follow a retrograde motion in respect to other satellites. While Angona was unable to capture any of the solar mass, our Sun was able to add 3 great planets to its planetary family that used to belong to Angona. The impact of these three foreign planets injected new and foreign gravitational forces into the emerging solar system. This was the reason behind the appearance of the retrograde motion of two planets of the solar system. In any astronomic system the retrograde motion always appears as a result of the collisional impact of foreign space bodies. [7]

Astrophysics also knows that in the solar system there are two planets, Venus and Uranus that have a retrograde axial spin. Four of Jupiter's external satellites also rotate in a retrograde motion. Many comets such as Halley travel around the sun in retrograde. Our astronomers suspect the foreign nature of some of the satellites of our solar system, however, they cannot confirm this exactly thus far.

The planets of the solar system do not swing around the Sun in the equatorial plane of their solar mother, which they would do if they had been thrown off by solar revolution. Rather, the planets travel in the plane of extrusion of the solar gas column caused by Angona, which formed a considerable angle to the plane of the sun's equator.

Recently astronomers discovered new small planets in the solar system: Ceres, Charon Xence, Sedna, Haumea, Mavemake, Eris, etc. and agreed that the solar system only has 8 planets. In the year 2006, Pluto was excluded from the planetary family for not having its orbit clear from small objects. [8,9]

3,000,000,000 years ago - the solar system functioned much the same as it does today. The planets and satellites continued to grow in size by the gravitational attraction of meteors, asteroids and cosmic dust found in space. During this age our planet had a tenth of its actual mass and continued to grow at an accelerated rate by meteoric accretion. [10]

3. PLANET EARTH - URANTIA

1,500,000,000 years ago - the planet Earth was two thirds its present size, and the moon was nearing its present mass. During this period the whole earth was a veritable fiery inferno, since volcanic action was at its peak. In this volcanic age, nonetheless, the terrestrial crust was gradually forming, and slowly, the primitive planetary atmosphere started to evolve containing water vapor (H_2O), carbon monoxide (CO), carbon dioxide (CO_2), hydrogen chloride (HCl) and numerous volcanic gases. [11]

Meteoric showers that precipitated upon the planet's surface kept the atmospheric oxygen exhausted, as the rate of meteoric bombardment during this time was tremendous. With the passing of time the atmosphere became more settled and cooled down sufficiently to give way to precipitation of rain on the hot rocky surface of the planet.

For thousands of years the planet Earth was enveloped in a blanket of steam and endless showers. During this age the Sun never shone upon the earth's surface. At the end of this period, water covered the entire surface of the earth to a depth of one and a half kilometers. This primitive ocean was not salty. [12]

1,000,000,000 years ago - the planet had attained approximately its present size and was placed upon the physical registries of our Local Universe Nebadon with the name of Urantia. The atmosphere and moisture precipitation through thousands of years facilitated the cooling of the earth's crust. The ocean covered the planet world-wide. The first continental land mass emerged from the world ocean in compensatory equilibrium adjustment of the gradually thickening earth's crust. [13]

950,000,000 years ago - Urantia only had a single continent of land which was small, a tenth of the size of the planet. Volcanoes were wide-spread and earthquakes were both frequent and severe. Meteors continued to bombard the earth, but they were diminishing in both frequency and size. The atmosphere kept clearing up, but the amount of carbon dioxide (CO_2) was high. The earth's crust was gradually stabilizing.

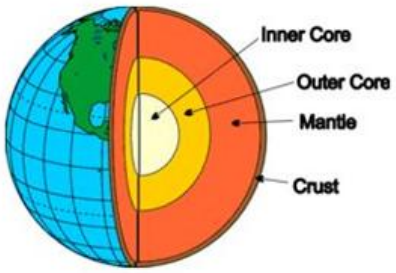
During this time Urantia was assigned to the system of Satania and was placed on the life registry of the constellation of Norlatiadek. The Satania system and the constellation of Norlatiadek are administrative divisions of our Local Universe Nebadon. [14]

900,000,000 years ago - witnessed the arrival of a scouting party of celestial beings from Jerusem, capital of Satania, to examine the planet and make a report on its adaptation as a life planet. This commission consisted of 24 members, embracing Life Carriers, Lanonandek Sons, Melchizedeks, Seraphim and other beings, who carried out an assessment of the planet and recommended it as a decimal planet were Life Carriers were granted permission to institute new patterns of mechanical, chemical and electric mobilization within the standard life forms and implantation of life on the planet.

This entire age was characterized by frequent and violent electrical storms. The earth's crust was in a state of continual flux; surface cooling alternated with volcanic eruptions and heated lava flows. [15]

850,000,000 years ago - the real stabilization of the earth's crust began. Most of the heavier metals descended toward the centre of the globe. Volcanic eruptions, earthquakes and electrical disturbances in the air continued to diminish in frequency.

850,000,000 years ago



Stabilization of the crust

Lava flows had brought to the surface a mixture of chemical elements which better insulated the planet from certain space energies.

All of this facilitated the control and regulation of terrestrial energy flow; and along with this, stabilization of the magnetic poles. [15]

800,000,000 years ago - the elevation period of the great continental land mass began. The increasing water downthrust of the Pacific Ocean worked to upthrust the continental land mass from the depths of the Pacific.

This was the inauguration of the first great terrestrial age; the most extensive continental land elevation. A third of the earth's surface consisted of land, all in one continental body: Europe, Asia, Africa, Australia, North and South America, and Antarctica.

In modern science this supercontinent is known as Rodinia and it was determined that it existed between 1.100.000.000 and 750.000.000 years ago. [16]

750,000,000 years ago - the first breaks in the continental land mass began as the great north-and-south separation, as well an east-and-west separation. The north-and-south tear prepared the way for the westward drift of the continents of North and South America, including Greenland. The east-and-west cleavage separated Africa from Europe and severed the land masses of Australia, Antarctica and the Pacific Islands of the Asiatic continent. [17]

700,000,000 years ago - Urantia was approaching a ripening age of conditions suitable for the support of life. The continental land drift continued; the oceans penetrated the land in the shape of long seas with shallow waters suitable as a habitat for marine life. [17]

600,000,000 years ago - the commission of Life Carriers arrived on Urantia to study the physical conditions in preparation of launching life on world 606 of the Satania system. Life Carriers cannot initiate life until a sphere is ripe for the inauguration of the evolutionary cycle, nor can they provide for an accelerated life development than that which can be supported and accommodated by the physical conditions of the planet.

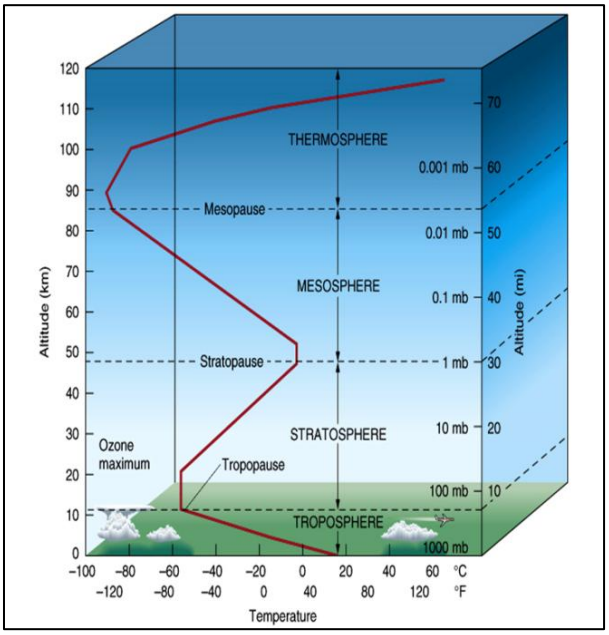
The Life Carriers had projected a sodium chloride (NaCl) pattern of life in Urantia, with iron red cells (Fe), therefore no steps could be taken toward planting life until the ocean waters had become sufficiently briny. This same essential saline solution would circulate through living bodies, bathing every cell and stimulating the protoplasmic reactions of the first living cells to function on the planet. [18]

4. THE URANTIA ATMOSPHERE

The height of the earth's atmosphere is greater than one hundred kilometers, although more than half of its mass is concentrated in the first six kilometers and 75% in the first eleven kilometers above the earth's surface. The mass of the atmosphere is 5.1×10^{18} kg. The earth's atmosphere protects life on earth. [19]

The atmosphere contains an ozone layer that extends 32 kilometers above the earth

and absorbs the majority of ultraviolet rays of short wavelength. If this ozone layer was thicker, ultraviolet rays would not be able to get through therefore inhibiting the production of vitamin D, which is essential for human life. If the ozone layer was thinner, the ultraviolet rays would pass through freely and could destroy human life.



The physical conditions of the planet were accommodated in order to allow breathing life on our planet. One cannot think that material creation, physical conditions of the planet, the appearance of life and its evolution are the result of chance. [20]

5. IMPLANTATION OF LIFE

550,000,000 years ago two corps of celestial beings - Life Carrier and Force Organizers returned to Urantia in order to plant life on this planet. Life Carriers are able to transplant life between planets; however, they did not bring any life to Urantia. This is a decimal sphere which means a world of modified life in comparison with standard models of life. All life was formulated within the planet itself, it is unique and there is no other equal life on any other planet.

Life on Urantia had its origin from three original and simultaneous marine-life implantations that were designated as: the central or Eurasian-African, the eastern or

Australasian and the western comprising Greenland and the Americas. The Carriers had planted the primitive form of marine life in tropical bays of central seas to ensure that each great continental land drift would carry this life with it. [21]

Our science is unaware of the origin of life and estimates that life began 3.600.000.000 years ago. [23]

500,000,000 years ago - primitive marine vegetable life was well established on Urantia. During this period the earth's core had become as dense and rigid as steel, being subjected to a pressure higher than 3,600 tons per square centimeter and its temperature was above the temperature of the sun's surface of 6,000 °C. The earth's crust was sixty four kilometers thick and rested upon a sea of molten basalt. [24, 25]

Land continents continued drifting upon this non crystallized cushiony sea of molten basalt. Greenland and the arctic land mass along with North and South America were beginning their long and slow westward drift. Africa moved south giving way to the Mediterranean basin. Antarctica, Australia and the Pacific Islands broke away to the south and east and have drifted far away since then. [26]

450,000,000 years ago - the transition from vegetable to marine animal life "occurred". This metamorphosis was confirmed in the shallow waters of the tropical bays of the separating continents. All of this marine life evolution was run by the Life Carriers.

There were many transitional stages between the primitive vegetable forms of life to the primitive animal organisms. From era to era radically new species of animal life arise, without evolving; the new species appear suddenly, due to natural genetic mutations, made by the Life Carriers.

Marine animal life evolved rapidly once the oceans reached a proper degree of saltiness. The Carrier of Life writes that "it was relatively easy to allow the briny waters to circulate through the animal bodies of marine life". [27]

400,000,000 years ago - marine life, both vegetable and animal, was fairly well distributed across the world. "Suddenly" and without gradation ancestry, the first multicellular animals, the trilobites, make their appearance, and for ages to come dominate the seas.

Trilobites – multicellular organisms

The world climate was warmer and more equable. During this period primitive vegetation starts to crawl out upon the land for the first time and not long after starts adapting to a non marine habitat.

Within a few million years the ocean began to invade the American continents, as well as Asia and other continents. The sinking of the land was primarily due to adjustments in the crust. For millions of years the continents would become submerged under water and later emerged partially, sometimes fully. [28]

360,000,000 years ago - marine life consisted primarily of seaweeds, one celled and multi celled organisms, sponges, trilobites, jellyfish, shrimp, crabs, and lobsters, all of which were very primitive. [28]

290,000,000 years ago - after several submersions and ascents of the continents, the early mountains began to appear, The Himalayas of Asia and the Irish mountains extending from Scotland and on to Spitzbergen. Much of the gas, oil, zinc and lead are found in the deposits of this age. The gas and oil were derived from the enormous collections of marine vegetable matter left after the retreat of the sea.

Violent and extensive volcanic activity began during this age in the European sector, near the Mediterranean and the British Isles. [29]

280,000,000 years ago - an important development phase of the planet began. The landscape was fairly void in the early days, yet later, trees began to spread dressing the land and giving room to future forests. Early trees did not have leaves. [30]

250,000,000 years ago - witnessed the appearance of the fish family, the vertebrates, some of which were very big and reached lengths of nine meters. Present day sharks are the survivors of these ancient fishes. At the end of this period fish had adapted to both fresh and salt waters.

New orders of land vegetation were rapidly overrunning the earth. "Suddenly" the prolific fern family appeared as well as other types of trees which now had leaves; these were twelve meters high and spread all over the globe. Today Greenland holds the remains of these early land plants beneath its mantle of ice. [31]

6. LAND ANIMALS

210,000,000 years ago - the warm water arctic seas covered most of North America and Europe, and the polar waters of the south inundated South America and Australia, while Africa and Asia were highly elevated.

During this period, "suddenly" the first land animals appeared. There were numerous species of these animals that were able to live both on land and in water. These amphibians developed, with their swim bladders evolving into lungs. Soon insects "appeared": spiders, scorpions, cockroaches, crickets, locusts and dragonflies, with wings that spread sixty five centimeters in length. Today frogs still lay their eggs in water, and their young first exist as little fish, tadpoles.

The climate across the globe was warm and equable. At that time South America was still connected with Europe through Africa. It was the beginning of the formation of the Ural Mountains. [32]

The First land animals

200,000,000 years ago - the most active stages of the Carboniferous period began. For twenty million years prior to this time the earlier coal deposits were being laid down. Throughout the following 25 million years the most extensive coal formation period began due to the land periodically going up and down into the water. Coal is the residue resulting from the vegetation occurring in the swamps formed as a result of the settling and rising of the land. During this age the land began to elevate giving rise to the Andes and the Rocky Mountains. [33]

7. CLIMATIC TRANSITION STAGE

170,000,000 years ago - great evolutionary changes and advancements were taking place all over the world. The land of the continents was rising all over the globe; isolated mountain ridges appeared along with glaciers, however, inland lakes and seas were drying up.

Two new climatic factors appeared - glaciation and aridity. These changes caused great variations in land plants. Seed plants first "appeared", and they afforded a better food supply to future land animals. Land climate developed into seasons and as a result the amount of frogs declined, but they survived.

Primitive reptile

During this declining frog age, Africa witnessed the first step in the evolution of the frog into reptiles. Earlier reptiles were small, carnivorous, and walked kangaroo like on their posterior legs. They had hollow bird like bones and developed only three toes on their back feet; therefore many of their fossilized footprints were mistaken for those of giant birds. [34]

Continents were still connected through land based bridges which allowed these early reptiles to move around the globe. By this time the atmosphere had improved enough to favorably sustain the breathing of these pre-reptiles.

During the longs ages of marine life, there were more than a hundred thousand species and at the end of the transition period fewer than five hundred marine species had survived. The gradual cooling of the oceans contributed to the destruction of oceanic life. Marine animals of those ages took refuge in three favorable retreats: the Gulf of Mexico region, Ganges Bay of India, and the Sicilian Bay of the Mediterranean basin.

Later on in time, from these three refuge regions, new marine species were born and consequently populated seas and oceans yet again.

The warm climate of earlier times was disappearing and a harsher climate was developing at an accelerated rate. [35]

8. THE EARLY LAND LIFE ERA

150,000,000 years ago - the early land-life periods began, but they did not flourish to a great degree. Most continents were well above water. North America was isolated for the first time, but not long after the Bering Strait land bridge emerged, connecting North America with Asia.

140,000,000 years ago - "suddenly", following the short life span of the early pre-reptiles in Africa, reptiles appeared in full-fledged form. They developed rapidly, soon yielding crocodiles, scaled reptiles, sea serpents and flying reptiles. Their transitory predecessors, the early reptiles soon vanished. The early dinosaurs, belonging to the reptilian family evolved; they were egg layers and had small brains, weighing half a kilo.

Several million years later the first mammals "appeared". They were non placental and soon disappeared. **This was an experimental attempt at improving mammalian types that Life Carriers would place on other planets; however this effort did not succeed in Urantia.** Marine life in this period was rather meager but improved rapidly with the formation of shallow lakes in Europe and Asia. [36]

130,000,000 years ago - Siberia and North America were joined by the Bering Strait land bridge. In the sea of the Californian Pacific Coast over a thousand species of ammonites developed, they were sea mollusks with big shells. The marine life changes in this period were revolutionary notwithstanding that they were transitional and gradual. [36]

130,000,000 years ago
Ammonites

Ammonites first appeared - Large shell mollusks

120,000,000 years ago - dinosaurs evolved in all sizes from a species half a meter long to the huge non carnivorous dinosaurs measuring twenty meters long. These monstrous reptiles are buried in Europe, North America, South Africa, and India, but not in Australia.

Dinosaurs required great amounts of food and the land was so crowded that they literally starved to death and became extinct as they had small brains that lacked the intelligence to overcome this situation. They became fully extinct 60,000,000 years ago. The opinions of our anthropologists differ some say that dinosaurs appeared 230,000,000 years ago, other say that they become extinct 65,000,000 years ago. [37]

During this age the major part of America, Russia and China were submerged in the seas. The return of the seas improved the weather. Ferns persisted, while pines became more and more like the present day varieties.

Corals spread among European seas, with the help of a soft climate. Ammonites measured from seven to ten centimeters. Sponges were everywhere, and both cuttlefish and oysters continued to evolve. [38]

110,000,000 years ago - the potentials of marine life were continuing to evolve. The sea urchin was one of the outstanding mutations of this period. Crabs, lobsters and other crustaceans fully matured. Changes occurred in the fish family, a new type of sturgeon fish appeared, from whose eggs black caviar is produced today.

This continued to be, pre-eminently, the age of the dinosaurs. Two dinosaur species adjusted to water during the period of marine invasion, and turned into ferocious sea

serpents, threatening to destroy the entire sea family. These sea serpents represent a backward step in evolution. The monster of lake Ness in Scotland could be a possible survivor of these species of marine animals.

In the process of animal evolution some species were evolving, others remained stationery, while others would gravitate backwards. This was so with these two types of reptiles from that forsook the land. Marine crocodiles also were also a reversion of the land type of reptiles.

Two other types of dinosaurs developed bat like wings and began to fly, but these pterosaurs were not the true ancestors of subsequent ages and soon became extinct.

Some species began to fly

One hundred million years ago began the decline and further disappearance of land and marine dinosaurs at a gradual scale. From this point onward animal evolution followed the path of brain development not based on physical size. [39]

9. THE FLOWERING PLANT PERIOD AND THE AGE OF THE BIRDS

Near the close of the geologic period known scientifically as “Cretaceous”, a great part of the continental land mass was elevated above sea level, yet there were no big mountain peaks.

In this age the land drift of the continents toward the west and south was met with great obstruction on the deep floor of the Pacific Ocean. These geological forces gave impetus to the formation of the mountain ranges extending from Alaska down through

Mexico to Cape Horn.

100,000,000 years ago - the warping of the American continents continued causing the metamorphosing of the South American Andes and the gradual elevation of the western planes in North America. The Atlantic and Indian Oceans were similar as to what they are today.

95,000,000 years ago - five million years after being elevated, the American and European land masses began to sink again. The southern seas commenced the invasion of North America and the Arctic Ocean. Great volcanic activity was taking place in the Andes sector and the Mountain Range of California.

Several millions of years later the sea finally retired and left the American Continent much how it is currently. Great geological changes also occurred in Mexico, Europe, Russia, Japan and South America. The weather became increasingly diversified. [40]

90,000,000 years ago - flowering land plants "suddenly" appeared such as: magnolias, tulips, along with fruit trees such as fig trees, breadfruit trees, early palm trees, etc. Soon after this time the trees and bushes spread across Europe. No new land animals appeared during this period.

85,000,000 years ago - the bridge of the Bering Strait was lifted, separating northern seas from southern seas. Before the close of the Bering Strait, both Atlantic Oceans waters as well as those of the Mexican Gulf were much colder than those of the Pacific Ocean, as a result, the marine life between these two oceans differs greatly.

Bering Strait

Upon the rise of the Bering Strait Bridge, the temperature of the Pacific and Atlantic Oceans became uniform resulting in marine life species between the two oceans becoming equal. [41]

80,000,000 years ago - the western advance of the continental land drift came to a standstill and produced great disturbances in the earth's crust of the Americas, as well as the Pacific shores of Asia.

Earth's surface distortions, caused by the phenomenal of release of energy of inertia through the abrasion of the American continent, were the greatest surface distortions to take place since life appeared on Urantia. The backthrust of the halted continental land drift crumbled thePacific coast of the American continents and elevated the Plains and Appalachian Mountains almost without tilting. Land, underground and submarine volcanoes became very wild during this period, producing extensive and widespread lava flows. Five million years later marked the end of the continental land drift. [41]

750,000,000 years ago began the continental land drift and this ended 75,000,000 years ago.

70,000,000 years ago - mountain growth continued across the globe. The Rocky Mountains elevation took place, from Alaska to the south of the United States. On the eastern slope of the Rocky Mountains near the Canadian border, granite rocks (formed prelife) rose to the surface; they did not possess fossilized plants or animals. [41]

This was an age of volcanic activity all over the world, giving rise to numerous isolated mountains. During this period a great part of Asia, Siberia, and the Himalayas were submerged under water. Submarine volcanoes broke out in the submerged Himalayan region.

65,000,000 years ago - one of the major lava eruptions of all time occurred and is found all over the Americas, Africa, Australia and part of Europe.

Land animals had changed very little. Since most of Europe was submerged under water, North America was the great field for the evolution of land animals of these times. The climate across the globe continued to be warm and uniform.

The arctic regions were enjoying meteorologic conditions much like that of the present climate in central and southern North America.

Plant and vegetable life was evolving greatly, angiosperms prevailed. Many present day trees first "appeared", including: beech, birch, oak, walnut, sycamore, maple and

modern palms. Fruits, hearbs and cereals were abundant. “Suddenly” and without previous gradation, the great family of flowering plants mutated, and this new flora soon propagated across the entire world. [41]

60,000,000 years ago - though land reptiles and dinosaurs were on the decline, there was a variety of leaping carnivorous dinosaurs, similar to kangaroos, which prevailed. A new tipe of herbivorous dinosaur also developed, whose rapid increase was due to the appearance of land plants. One of these dinosaurs was a quadruped, having two horns and a capelike shoulder flange.

A land type of turtle “appeared”, measuring six metres wide, along with the modern crocodile and true snakes. Great changes took place among the fish and other forms of marine life.

The first two attempts of aviar formation had not been a success, consisting of flying dinosaurs and swamp animals. They were a short lived species soon becoming extinct. They too underwent the same fate as the dinosaurs doom, because of having too little brain substance in comparison with body size.

The attempt to produce mammals during this geological age also failed.

55,000,000 years ago - the first species of true birds “appeared”, a small pigeonlike creature which was the predecessor of all bird life. This was the third type of flying creature to appear on earth and it sprang directly from the reptilian group, neither from the flying dinosaurs nor from the earlier types of toothed land birds. This age is known as the age of the birds as well as the declining age of reptiles.

This draws a close to a long age of geological evolution as well as land life, known to science as the “Age of Chalk”, or Cretaceous period. Its termination marks the end of the great sea invasions on the continents. This is particularly true for North America, where there had been twenty four great inundations.These alternate periods of sea and land dominance occurred in million-year cycles each. **These same rhythmical crustal**

movements will continue from this time on throughout the earth's history but with dimishing frequency and extent.

The period of Chalk encompasses fifty million years and witnesses the end of the continental drift and the formation of the modern mountains in Urantia; this was also the pre-mammal age of land life. [42]

10. AGE OF THE MAMMALS

The era of mammals extends from the times of the origin of placental mammals to the end of the first ice age, covering a little less than fifty million years.

During this time the Panama Isthmus went up and down two times and the Bering Strait three times. There were many types of animals and birds. The whole world was an animal paradise, despite the incessant struggle for survival among the evolving animal species.

50,000,000 years ago - the land areas of the world were generally above water or only slightly submerged. Early in this period the placental type mammals "suddenly" appeared in North America. The father of the early placental mammals was a small, carnivorous, springing type of dinosaur who survived the decline of the dinosaurs. Previous orders of non placental mammals had existed but this new type sprang directly and "suddenly" from its reptile predecessor, a small dinosaur.

Mammals possess an immense survival advantage over all other forms of animal life in that they can:

1. Bring forth a relatively mature and well developed offspring.
2. Nourish, nurture and protect their offspring with affectionate regard.
3. Employ their superior brain power in self-perpetuation.
4. Utilize increased agility in escaping from enemies.
5. Apply superior intelligence to environmental adjustment and adaptation. [43]

45,000,000 years ago - mammalian life was evolving rapidly. The forefathers of the future animals were evolving, such as: kangaroos in Australia, small horses, fast rhinoceroses, tapirs with proboscises, primitive pigs, squirrels, lemurs, opossums, and

several tribes of monkey-like animals. They were all small, primitive, and lived among the forests of the mountain regions.

The mammals of the Cenozoic period had from one to eleven pairs of mammary glands, were hairy, possessed teeth and had large brains. [43]

During this period large birds similar to the ostrich also developed, who were the forefathers of the future gigantic birds that transported human beings through the air in later periods. These passenger birds were called fandors, and they could carry two people through a distance of 800 km. Fandors became extinct 30,000 years ago. [44, 45]

Modern paleontology knows of placental mammal fossils that lived 125,000,000 years ago, and recently found another fossil of this animal class that existed 165,000,000 years ago in China. [46]

40,000,000 years ago - most of Europe was submerged under water. The Arctic Ocean ran south connecting with the Mediterranean Sea, and the great highlands of the Alps, Carpathians, Apennines and Pyrenees were left as islands in the sea.

The Atlantic and Pacific Oceans were separated due to the rise of the Panama Isthmus. North America was connected with Asia by the Bering Strait and with Europe via Greenland and Iceland. Little by little mammals were moving all over the world, aside from Australia which was isolated. [47]

35,000,000 years ago - marks the beginning of the age of placental mammalian world domination. The Antarctic continent was enormous, and land bridges were formed with South America, South Africa, Australia and Antarctica. The world climate remained mild because of the increase in size of the tropic seas; the land did not elevate sufficiently to produce glaciers either.

Marine life was undergoing great modifications. With the dinosaurs in decline, mammals soon assumed the dominion of the earth. Of the earlier and more primitive mammals, over one hundred species were extinct, including large sized mammals with small brains. Various groups of mammals had their origin in a unique animal now extinct. This carnivorous creature could live on land or in water and was highly intelligent and very active. Surviving members of the reptile family are turtles, snakes, crocodiles and frogs.

The frog constitutes the group of man's earlier ancestors. In Europe, the ancestor of the canine family evolved. Gnawing rodents appeared: beavers, squirrels, mice, rabbits and raccoons. [48]

30,000,000 years ago - modern type mammals appeared for the first time. "Suddenly" began the evolution of mammals that lived in the plains; formerly, early mammals would live in the forests of the mountains. A tribe of placental mammals took up residence in the oceans giving way to whales, dolphins and sea lions.

About this time in the west of North America the early ancestors of the ancient lemurs made their appearance whose coming marked the establishment of the line from which true lemurs subsequently sprang, and were the ancestors of men.

Camels and llamas had their origin in North America; later, camels migrated to Europe and Asia, and llamas to South America. The bird life of the planet continued to develop, and in this period modern birds were already existent including gulls, herons, flamingoes, buzzards, falcons, eagles, owls, quails and ostriches.

By the close of this Oligocene period, plant life, together with land animals and marine life had evolved to a great degree and was present on earth much as it is today. The continents of the world would rise and then become partially submerged under water through a period of millions of years. [48]

20,000,000 years ago - the Bering Strait land bridge rose up and many groups of mammals migrated to North America from Asia. In a short time North America was overrun by animals such as: deer, oxen, bisons, horses mastodons, rhinoceroses and many varieties of the feline family. With the exception of Australia, the planet was overrun by elephants that possessed large brains and were very intelligent, which allowed them to survive until today's age.

Land elevation and sea segregation were slowly changing the world's weather. Greenland had a warm climate with tropical plants such as magnolias. However, little by little these plants disappeared and were replaced by hardy plants and deciduous trees. [49]

15,000,000 years ago - the mountains of Europe and Asia had began to rise, and there was volcanic activity in these regions. The Strait of Gibraltar closed and Spain was

connected with Africa by the old land bridge. The land bridge of Iceland went under water and the arctic waters mixed with the Atlantic Ocean. Mammal life continued to evolve; this was the age of horses and elephants. In central Asia early types of monkeys and gibbons evolved, having both a common predecessor already extinct. However, these species were not ancestors of the human race. [50]

10,000,000 years ago - a great part of Europe was under water; the Mediterranean Sea covered great part of North Africa. For a short period of time the whole world became connected with land bridges, apart from Australia, and the last great world animal migration began.

The feline family was the predominant animal life and marine life did not undergo any changes. A great amount of horses still had three toes, but were evolving to the modern types. The giraffe appeared in Africa, having just as long a neck then as now. Sloths, armadillos, anteaters and primitive monkeys evolved in South America. [50]

5,000,000 years ago - the horse evolved in North America much like the one today and migrated all over the world, but became extinct in North America.

The world climate was cooling in a gradual manner, plants were moving south at a slow pace. A short time after the land bridges became submerged and the western hemisphere became isolated from Europe and Asia. [51]

11. THE GLACIAL AGES

3,000,000 years ago - the land and mountains of North America and Europe rose to a great degree. Simultaneously, along with these land elevations oceanic currents moved and seasonal winds changed direction. These conditions produced an almost constant precipitation of moisture of the heavily saturated atmosphere over the highlands.

Snow began to fall over these Nordic regions and reached a depth of 6,000 metres. Snow turned solid and abundant ice covered the highlands, but not the high mountains. Half of the glacial ice was located in North America, a quarter in Eurasia, and a quarter in Antarctica and Australia. The Nordic regions of the planet experienced six separate ice invasions. In North America ice had two and later three deposit centres. Greenland and Iceland were buried under ice. In Europe, the ice came down to France and on various occasions covered the British Islands. [52]

2,000,000 years ago - the first glacial period in North America began. The ice came down south of the continent until it reached Kansas. 500,000 years later the ice sheet went away.

The Glacial Ages

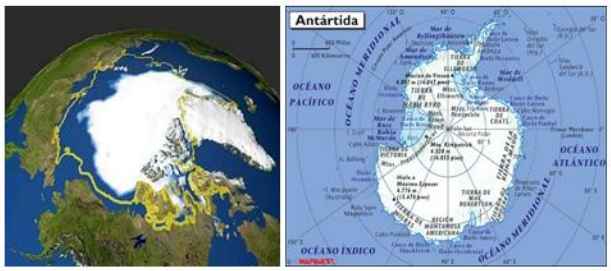
1,500,000 years ago - the ice mass continued to come down from the accumulation centers. This made up the second glacial invasion. The first two ice invasions were not extensive in Europe or Asia. Toward the end of this ice age the majority of animal species had become extinct in North America. [52]

1,000,000 years ago - along with the appearance of the first human being, began the third glacial advance in North America, Europe and Siberia.

750,000 years ago - the fourth glacial layer was heading south. It displaced the Mississippi river 80 km west in North America, entered very deeply to the south of Asia and advanced in Europe until reaching the Alps. [53]

550,000 years ago - the fifth advance of ice began, which had a combined invasion from the three centres of ice deposits in North America. In Europe this ice invasion was not as vast as the previous one. [53]

250,000 years ago - the sixth and last advance of ice began. This was the biggest of all ice invasions in North America; ice moved more than 2.400 km south of its deposit centres. Upon the retreat of the ice, the Great Lakes of North America were produced. [53]



Artic Antarctic

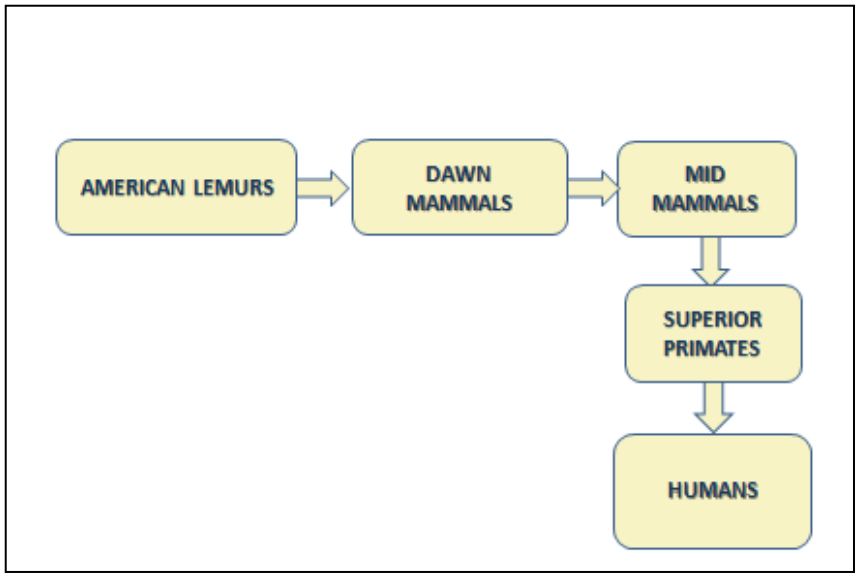
100,000 years ago- during the retreat of the last glacier, polar ice sheets were formed in the Arctic and the Antarctic. As long as the Polar Regions continue to be covered in ice, it would be difficult for another ice age to take place, regardless of there being future land elevations or modifications to the oceanic currents. The final sixth glacier would advance 100,000 years ago and retrocede in another hundred thousand years heading north. The warm regions of the planet have been ice free for a little over 50,000 years. [54]

Our science knows of the existence of four glacial periods, where the first period according to current geology took place 2,700,000,000 years ago. [55]

12. THE FIRST HUMAN BEINGS

In the time of the second glacial period, more than 1,000,000 years ago, the evolution of the direct ancestors of the early man occurred with the lemurs of North America. Several million years ago, the North American lemurs migrated west via the Bering Strait land bridge and arrived at the Asian continent.

In a zone west of India on a southern peninsula, the dawn mammals "suddenly" appeared, being descendants of the North American lemurs. These small animals would frequently walk on their rear legs and had a big brain.



After almost 1800 years, in the generation number seventy, "suddenly" new animals were born which formed the mid mammals groupd. This group were doubled in size of their predecessors and had even larger brain capacities.

Once the new group of mid mammals was established, thanks to the third gene mutation, the early superior primates were "suddenly" born.

993,500 years ago (from the year 2015), after nine hundred generations of superior primates in development, after twenty-one thousand years, a couple of superior primates "suddenly" gave birth to twins, a male and a female. They were real human beings whose names were Andon and Fonta, these twins were the founders of human races of animal origin.

In a retrograde evolution, a hindered couple of **mid mammals** gave birth to other twins who were the founders of the ape tribes: baboons, modern monkeys, chimpanzees, orangutans, etc. However, lemurs, gibbons, and other monkey-like creatures existed prior to the intermediate mammals. The modern man and the apes descended from the same species of animals mid mammals, but not the same parents.

Andon and Fonta, the first humans, were born when the third glacial advance commenced and procreated in a stimulating, invigorating and difficult environment. The only direct descendants of these aboriginal humans are the Eskimos, who still prefer to live in extremely cold climates. [56, 57, 58]

13. HUMAN RACES

Anthropologists of the XXI century have not agreed on the origin of the human races: some scientists say that the human race is one alone, other scientists classify human races based on physical attributes such as skin colour, shape of the skull, hair characteristics, etc; they also make classifications based on epochs, cultures, geographical position, etc. According to these theories there are quite a lot of races on our planet. [59]

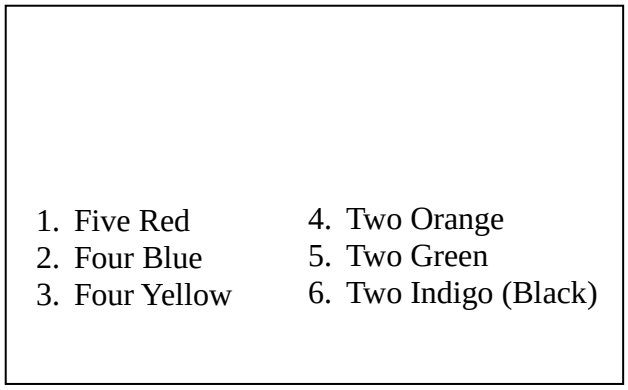
The Book of Urantia explains the existence of eight pure races of human beings: the Andonic race (six coloured races of animal origin), Nodite and the Adamic race. The Adamic race not being of animal origin. These eight pure races formed different secondary races or nations as a result of their amalgam.

500,000 years ago - a little before the fifth glacial period, a new event accelerated the course of human evolution. In this epoch there were too many tribal descendants of Andon and Fonta who permanently fought amongst themselves.

The lands that now belong to Afghanistan were inhabited by the Badonan tribe; they were far superior to other tribes, who managed to establish a cultural centre. But during one hundred years this advanced tribe was involved in a racial war and was therefore reduced to around one hundred families, these survivers were the most intelligent of all descendants of Andon and Fonta.

In one of these Badonan families “suddenly” children of color began to be born. Nineteen

children were born in total: five red, two orange, four yellow, two green, four blue and two indigo (black). [60, 61]



These children were called "Sangik" and they were the most intelligent above their fellows; their skin would turn various colors upon exposure to sunlight. The children of the Sangik family were the ancestors of the six colored races of Urantia. When these sangik youths mated with fellow youths of the tribe, the offsprings manifested the skin color of the Sangik parent. This way the six colored races were produced in the planet of Urantia: red, blue, yellow, orange, green and indigo (black). [62]

The Nodite race. 200,000 years ago began the formation of Nodite race, whose name came from its founder Nod. This breed was formed by descendants of the beings brought to this planet. His DNA was andonic but transformed. This race was superior to andonic and colored races of animal origin. Nodite people lived in the "Land of Nod" mentioned in the Bible. [61]

Nodites later migrated to all parts of the planet where humans taught various sciences and technologies. Then, together with the adamic race and other races, different civilizations formed as Vikings, Incas, Mayans, Egyptian, Greeks, etc.. Our scientists are surprised with the achievements of these civilizations in astronomy, mathematics, construction, medicine, spiritual knowledge, etc. [62]

The Adamic race. Almost 38,000 years ago two beings of celestial origin, Adam and Eve, arrived on the planet; they were the parents of the violet or adamic race. [63]

To every planet where there already human races of animal origin, two semi-material beings are sent, Adam and Eve, to form a new violet race. Their descendants upon

mingling with the native people of the planet improve the races of animal origin. Adam and Eve are the biologic elevators and should live on our planet for many millions of years. We should be able to see them now and with this comprehend that there are beings that do not die and that life on a planet isdesigned and carried out by the divine mind. The Adamic mission failed on our planet, they became mortal and died after 530 years of life.

Humanity knows the story of Adam and Eve through the scriptures in the Bible. The Bible presents this story as a children's tale, but in reality these were two magnificent beings and their blood mixed with with the blood of the native beings of the planet helped to significantly improve the body and mind of the human being. [64]

The celestial documents of The Urantia Book explained to us the need for the existence of different races in evolution in an evolving planet due to the following reasons:

1. Variety of races is indispensable for the functioning of natural selection to ensure the survival of superior strains.
2. As a result of the amalgamation of different races people with superior inheritance factors survive.
3. The natives of planet Earth, andonic race, did not progress very much because in the tree of life, human beings kept mingling with their inferior animal cousins and with this delayed the selective evolution of the best species.
4. The races of Urantia would highly benefit if they had the opportunity to widely mingle with a superior Adamic race. But the failure of the mission of Adam and Eve

hugely diminished this possibility.

5. The attempt to execute such an experiment on Urantia under present racial conditions now would be highly disastrous.
6. Differences in social status of the races or nations are essential to the development of human tolerance and altruism.
7. Homogenity of the human race is not desirable until the peoples of an evolving world attain comparatively high levels of spiritual development and high moral standards. [65]

14. COMPARISON OF HISTORICAL DATA

Scientists are making a great effort to describe the geologic history and that of the evolution of life on our planet. Dketermining the dates of the events that took place millions of years ago is a rather difficult tassince there are no exact methods for measuring the periods of ancient historical events.

Science in general does not develop in a linear fashion; in its progress it moves from errors to truths. Human life is very short, but the evolution of a planet is very long. Nevertheless, our sciences began to progress at a great rate since the twentieth century, merely the last hundred years.

During this time humanity achieved great breakthroughs in the areas of physics, biology, genetics, medicine, technology, etc., but we need to be mindful that our sciences have only just begun to discover the secrets of “nature” and in the future will make even more daring discoveries than the human mind can imagine.

In the table attached herein are presented some historical events described in The Urantia Book in comparison with the knowledge of the modern sciences of our planet. The same historical events described by different scientific researchers possess different accounts of when the facts took place, and these dates differ greatly by many millions of years between them. In this table are presented the dates of the historical events determined by a scientific stream whose periods are closer to the dates mentioned in The Urantia Book.

There are a multitude of curiosities in modern science, for instance, some scientists

assure us that we are currently living in a glacial age, that the dinosaurs became extinct as a result of the impact of a meteorite upon Earth and that the Universe was formed due to an explosion.

When humanity knows the truth about the creation and the administration of the Universe, when they know the true history of our planet, the appearance and evolution of life, humanity will be freer, free from the dogmas of the churches, and from social and scientific dogmas, thereby accelerating its progress and the evolution of the whole planet.

The purpose of this article is to awaken the interest to the revelations published in The Urantia Book. This valuable information can help scientific researchers to clarify many historical events and also guide them in the new discoveries of the history of our planet.

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