

# THE FLOOD AND FOLLOWING ICE AGES



This article tries to explain what exactly happened during and after the flood and how the vast waters of the earth brought about the ice ages that followed the flood event.

By Dr Phil Smith

## **Flood and Ice Ages**

So this essay is about the Flood and subsequent Ice Ages and very technical in nature. I will look closely at Donald W. Patten's 'The Biblical Flood and the Ice Epoch' which was published in 1966 by Pacific Meridian Publishing in Seattle Washington. This is a great read and study. Some of the points include ideas on the Global flood and the history of catastrophism and uniformitarianism, the cause of global mountain uplifts. The book deals with such topics as the cause of the ice epoch. We also have Oard who contributes to the information on the Ice Age. We will also look at the antediluvian canopy and also Darwinism.

This naturalistic philosophy that is covered in the book assumes that the same natural laws and processes that operate in the universe have always operated in the same manner which is summarized as the present is the key to the past. One of the key differences is that uniformitarianism assumes great time lines and its model looks to evolution as an explanation for it working. Names associated with this philosophy are James Hutton, John Playfair, Charles Lyell, and William Whewell. It concludes that the greater part of our land has been produced by natural operations of the planet. Everything was formed by loose and incoherent materials by way of repeated cycles of erosion and depositions. Charles Lyell explained that former changes of the Earth's surface were shaped by slow moving forces still in operation today. William Whewell coined the words uniformitarianism and also catastrophism which is the opposing viewpoint. Lyell's theory consisted of four propositions: In regards to the uniformity of the laws of nature, they were all constant, the geological past is uniform with that of today and the degree of uniformity has not changed over time. Gould states that these propositions must first be assumed before you proceed in doing any further investigation of the past. So, to repeat, the uniformity of law says that natural laws are constant across space and time. The uniformity of process says that a past phenomenon is explained in the same way today. Uniformity of rate has to do with slow, steady and gradual changes that take place in the world. The uniformity of state has to do with changes that are evenly distributed throughout space and time. So to partly sum things up, uniformitarianism is a basic principle of modern geology. It was originally proposed in contrast to catastrophism which states that the distant past consisted of epochs of paroxysmal and catastrophic action interposed between periods of comparative tranquillity. In fact, modern geologists don't apply uniformitarianism in the same way as Lyell did. They say that the present may not be the key to penetrate the past as geologic processes may have been active at different rates in the past. So the current

consensus is a slow, gradual process intervened by occasional natural catastrophic events. This has been classed as the principle of actualism (geology).

Catastrophism says that the Earth has been affected by sudden, short-lived, violent events, some being worldwide. So, Patten tells us that the earth's past is viewed in terms of a number of catastrophic events over a relatively short period of time. French Palaeontologist Georges Cuvier was the leading scientific proponent of catastrophism. His purpose was to explain the patterns of extinction that was seen in observing fossil record. William Buckland and Robert Jameson, two English geologists interpreted Cuiver's work in a very different way and published their work under the title, 'The Theory of Earth.' Buckland decided to focus on the biblical flood with presentation of geological evidence. He eventually abandoned this for glaciation which was proposed by Louis Agassiz who had been one of Cuvier's students. Another paradigm was proposed by a Persian geologist, Avicenna in the 11<sup>th</sup> century. He said that mountains were formed over a long period of time either by upheavals of the crust such as earthquakes or by water erosion. In the 19<sup>th</sup> century, the French geologist and naturalist Baron Georges Cuvier said that the faunal changes that were seen in rock strata were the result of periodic devastations that wiped out all or most extant species. By the 1980's catastrophism was rejected in favour of uniformitarianism. It was believed that the earth has been shaped by long term forces of volcanism, earthquakes, erosion and sedimentation. This rejection was caused by the influenced by Christian theology on catastrophism. Interestingly, Immanuel Velikovsky in 1950 endorsed catastrophism through his speculation that Venus was a comet which had been ejected from Jupiter. Over 3,500 years ago it made two catastrophic close passes to Earth and then later interacted with mars before it eventually settled into its current orbit. Of course many rejected his theory and even tried to stop publication of his books. But other supported him, even Einstein was his close friend. Einstein accepted a general theory of orbital catastrophism but not Velikovsky's theory of Venus. But today, scientifically based catastrophism has gained wide acceptance with regard to certain events in the distant past. This came about by the theory of a huge meteorite supposedly hit the earth 65 million year ago and destroyed the dinosaurs. Another such theory that has recently risen is in regard to the Moon's formation which was catastrophically formed from the earth 4.5 million years ago.

Let's look at Claudius Ptolemy who actually was an early astronomer, geographer, historian and mathematician who established the Ptolemaic system in the 2<sup>nd</sup> century AD. He held that the Earth was stationary with the moon and planets revolving westwardly around it. He also thought that there were periodical retreating eastward epicycles. It wasn't until 1543

that Nicolas Copernicus introduced the Copernican system. This was the heliocentric system as compared to the geocentric system of Ptolemy. This system said that the planets revolved around the sun in uniform and precise circles with the moon revolving around the earth. Tycho Brahe came along around 1575 adopting elements of both systems but Kepler adopted the Copernican system with modifications. This included his three famous laws: planets revolved in ellipses with the inner planets revolving faster. Halley saw that there were other celestial objects crossing the sky that was comprised of historical references, thus he became famous for the prediction of Halley's Comet. Halley was associated with Newton who in turn knew William Whiston who proposed that a large astral body could cause a great flood through tidal mechanisms which was the mechanism by the Biblical Flood took place plus this was the answer to other historical events.

Patten says that uniformitarianism assumes that the Earth has been free from astral catastrophes for the last several hundred millions of years. But there's contrary evidence to this, such as: planetary opposition with Neptune and Pluto, lunar disarrangement or perturbation such as with Nereid and Triton, Lunar fragmentation such as with Saturn and its rings, planetary fragmentation such as with asteroids of Ceres, Pallas, Juno and others, Craters and an acute alignment of mountains on the moon, and also the origin of comets in the Solar System. Another example is planetary interaction between two planets that approach each other where their gravities attract each other and also the interaction of their magnetic fields. Yet another consists of the revolution of Neptune's satellites revolving in retrograde motion. And there are many others: orbits of the planet and moons: Pluto, Triton, Nereid, and Halley's Comet. So, examples of astral catastrophism are numerous in the Solar System. A lot more information on these planets and comets can be studied from recent flybys of those places.

So our planet, earth, being such a small and fragile sphere with a crust of only five to thirty miles thick, containing oceans of hot magma with oceans of water. There is the orbital motion of the earth and also the galactic motion. The orbital alone makes the earth bulge at the equator. Morris talks about the events of the floods as clearly seen in the Bible: the fountains of the deep burst open, the waters increased and rose above the earth, it rose higher and increased greatly on the earth, all the mountains were covered with water, the water subsided, the fountains of the deep and the floodgates of heavens were closed and the water completely receded. There were forty days of rain and for another 110 days, water continued to rise. Then there were 74 days which the water went and decreased and forty days when Noah sent out a raven and then another seven days before he sent out a dove and yet another

seven days before sending out another dove. There was another 57 days from which the cover of the ark was removed to the end. There are numerous ancient flood traditions across Asia, Africa and Europe, some written down.

McIntosh say that there can be no doubt that immense pressures were taking place in the Earth's crust. There were also the pressures of the waters that compressed layers of sediment which caused successive layers of strata, mixed with flora. These layers are found on every continent and appeared to have been put down by great volumes of water which was in the flood. From the expression, 'the fountains of the deep', we have the oceans and rain. According to the author, the cause of this was an astral visitor that passed by earth causing gravitational and magnetic conflict. The earth has a triple fluid that is made up of millions and millions of cubic miles of water and in addition to this water there is semi fluid magma below the earth's thin crust. The earth also contains 200 times more water as the atmosphere and one thousand times more magma than the oceans. Due to the earth's rotation, the upward thrust of the magma is extreme. The thin crust moves constantly. This state of the earth's crust is called orogenesis. The uniformitarian approach involves continental drift, convection currents of magma, planetary expansion and contraction, undulations and differential rotation and polar wandering. Another aspect of orogenesis is the causes of the mountain ranges scattered across the earth. These are found in scallop like arcs which seems indifferent to either continental massifs or to oceanic basins. They often occur in parallel. So, following the flood catastrophe, new equilibriums were sought spanning over centuries before coming to a close.

Witcomb also say that the Biblical rendition also clearly shows that the climatic regime was different. There is an applied water vapour canopy prior to the beginning of the rain. The proof of this comes from Genesis where God created a firmament in the midst of the waters separated the one above from the one below. This antediluvian condition was similar to that found in the atmosphere of Venus today which has a highly reflective canopy. Before the flood life on earth was different; its atmosphere, its water vapor and the plant life was more luxuriant because of large proportions of carbon dioxide and water vapour in the atmosphere. People lived much longer along with animals. The advanced age of people have been commented with extra biblical sources, in ancient Babylonian poetics and stories. The water vapour canopy caused a greenhouse effect producing more carbon dioxide as the atmosphere tended to recapture radiated heat. This also produced a more uniform atmosphere between day and night and winter and summer. But today, we have another canopy made up of O<sub>3</sub> which is called ozone which is a radical form of oxygen. The ozone absorbs radiation

and shields the Earth's crust from the majority of the sun's ultra-violet radiation. This canopy is now positioned between 50,000 and 80,000 feet. It's the solar wind that creates the ozone properties but the earth's long-wave radiation turns it back into oxygen. In itself, ozone is highly toxic and like ultra-violet radiation, can damage genetic materials such as skin cells.

Afterwards came the ice advance due to the great changes in the atmosphere. Theories of glyco-genesis surround themes like a decrease in solar radiation, the passing of the earth through cold regions in the galaxy, an increased eccentricity of the earth's orbit, variation in the amount of carbon dioxide in the atmosphere, directions of high-latitude oceans currents, variations in the relative proportions of land and water, variations in the angle of the axis to the plane of the ecliptic, changes in the location of the geographical poles and shifts in elevation of land area relative to sea level.

Interestingly, in Alaska and Siberia, millions of mammoths and mastodons were mummified in ice and sedimentary strata. The freezing was so complete and effective that carcasses have been thawed to feed sled dogs. Their deaths happened suddenly in freezing cold. It was so quick that undigested vegetation was still in their stomachs and even their mouths. There were also rhinoceroses, sheep, horses, oxen, lions, tigers, bison and other animals frozen the same way. The uniformitarians have no explanation for this. Over 20,000 elephant tusks were taken from a single Siberian ivory mine. This was an incredible catastrophic event in the history of the earth. In Antarctica, former warm and humid climate have nurtured luxuriant forests and on the island of Svalbard, fossilized palm leaves some ten and twelve feet long have been found. More of this evidence was found on the New Siberian Islands. These things stand out a result of the catastrophic events that took place on the earth. The Ice Epoch came about suddenly in both hemispheres along with great depths of ice. The Canadian Shield alone experienced some 15,000 feet of ice thickness. The mass of ice spread from Eastern Alaska to Central Europe, from the fringes of Siberia to the Central United States over some 17 million square miles. This was equal to the total land surface of North and South America. According to the uniformitarian theory, this was all formed by snow. This would have had fallen over eons of time if it were so. The ice mass seems to have missed all of Siberia. The catastrophic origins, transport, location and dating of this ice is said catastrophically to come from outer regions of the solar system with the transport from elliptical orbits and electromagnetic deflection with the location associated with magnetic latitudes and dating somewhere right before 3,000 BC. Whereas the Uniformitarian theory says it was from evaporated ocean water and transported via planetary wind systems and precipitation with it location associated with geographical latitudes with dates going back to



10,000 BC. Next the author goes into great lengths to explain the astral visitor that brought the ice to earth comparing it with the ice that was brought to the rings of Saturn.

As already mentioned, ancient longevity was another pre-flood condition along with gigantism. This is clearly shown in the Bible and also known through independent folklores and literatures of the ancients. After the flood, the longevity of people declined rapidly. The chemical radical ozone can accomplish the same thing because of how it reacts with amino acids and proteins. Chadwick says that many mammals in fossil form revealed a tendency to gigantism, especially the larger dinosaurs. The same existed for plant life. But gigantism was not uniform. Interestingly pre-historic horse was a small animal between 15 to 20 inches high whereas today the horse is a rather large animal. The Brachiosaurus outweighed the elephant by 45 tons. There were a number of large mammals over ten feet in height at the shoulders and also a large number of reptiles that existed were between 12 to 87 feet long. It seems that growth hormones and longevity were the cause of in the previous age. Other factors of hormone malfunction are lack of certain chemicals such as salts of bromine, cadmium, calcium, chlorine, cobalt, copper, fluorine, iodine, manganese, potassium and sodium could have affected the thyroid gland.

Further to uniformity, Darwinism or evolution can be considered a daughter theory of uniformitarianism. This eventually became doctrine for modern anti-spiritual philosophies. This theory was wholly accepted as a triple garb of rationalism, science and truth. There are major assumptions within Darwinian: geological uniformitarianism, survival of the fittest, environmental determinism, natural selection, comparative embryology, missing links and the requirement of a biochemical mechanism.

Geological uniformitarianism was the first assumption. Darwin rejected views on catastrophism and thus had no understanding of it as a principle in Earth history. The next assumption was the survival of the fittest. Darwin said that most adaptive strains and the most prolific strains of animals survived. These were often the animals at the top of the food chain like lions, tigers, wolves and predators. But according to fossil records, the fittest did not survive. Fossil beds show animals both great and small and both carnivorous and herbivorous. There is little evidence that they were inferior or less adaptive. They were simply victims caught and engulfed in cataclysmic conditions; their carcasses were deposited, often disjointed and littered in watery dumps. In some American fossil beds, 60% of the species found are extinct today where other shows 75% extinction. Other examples show a modern elephant along side a fossil imperial elephant and Ostriches the size of a modern giraffe, fossil pigs the size of rhinoceroses and fossil sloths 18 feet tall. These finds are explained off

as aberrations. Along with these were dinosaurs, both large and small. Some were horned, spiked or had horned mail. All were engulfed, drowned, buried, compressed and fossilized according to catastrophic theory.

Another assumption was concerned with environmental determinism. Marx took this idea and theorized that if the environment can change and determine the future of a strain, it can do the same thing for humans. Thus, in controlling the environment man could also control the direction of biological change as well as economic, philosophical and political change. So through this, the future could be controlled and a total monopoly could be established. Of course, history now shows that this ended up in tyranny where dictators and the government became gods. The next assumption was natural selection that would come about by inbreeding. Inbreeding does bring about changes in appearance and qualities of strains; yet at the same time inbreeding debilitates a strain whereas cross breeding revives the strain. Comparative embryology, another Darwinian assumption, observes that there is a parallelism in the development of mammalian embryos. Every architect or builder proceeds in sequential patterns. This then is a philosophical and speculative matter, not a scientific matter. The next assumption leads us to the missing link or the ape-man. Endocrinology is the study of glands and hormones and how they affect the organs. For the last one hundred years, scientists have avowed, sworn and assured the world populace that they have found the missing links known as the Neanderthal man, the Peking man or zinjanthropus. Most of these claims have been out right lies while others have been small portions of a skull or skeletal systems of actual apes or they are found in conditions that no way support their claims. Many descriptions have been put forth to describe such missing links only to find that such people exist today! The strongest thesis of Darwin dealt with Environmental Determinism or antediluvian endocrinology. This was his biochemical mechanism and it was the first to be disproved and rejected.

In a general theory of astronomy, Immanuel proposed that the solar system was billions of years old and had now devolved into a state of which there were no outside interferences. This includes three possible approaches to the origin of the solar system: a nebular approach, collision approach and galactic approach. However, Immanuel suggested that the sun was once a giant and diffuse nebula which shrank due to self-gravitation. The remnants collected on a thin disc which orbited around the Sun. This became the accepted academic view even today. Simon Laplace ideas of the solar System were those of Kant's views. He also postulated that the progenitor of the solar system must have been a vast gaseous fluid which cooled and contracted, leaving behind particles which later condensed



into planets. George Darwin, son of Charles Darwin, also followed the uniformitarian view and introduced solar tides as being a possible explanation of the planets where all materials in the planets came from the sun. The next cosmological hypothesis was presented by Thomas Chamberline and Forest Moulton. This was concerned with the development of their planetesimal hypothesis where factors such as kinetic speed of molecules, dissipating characteristic of gases, centrifugal force and gravitational contraction played a part in the development of small bodies, called planetesimals. Other hypothesis was continually presented: The collision hypothesis by Harold Jeffreys, the binary Star Hypothesis by H. N. Russell which said that at least half of the stars in the galaxy are binary stars. So since uniformitarianism was accepted into cosmogony, it was also accepted into astronomy, biology classical literature, geology, history, paleoclimatology, and also theology. There are blind spots to all of this which people have over looked in developing their theories which over look certain evidence.

This seem to be the basic view for the history of our planet and other planets in our solar system. It presumes periodically disturbed and conflicting conditions. The uniformitarian view presupposes that the current planetary orbits have existed for millions, if not billion of years rather than thousands. Pluto has an orbital eccentricity of .249. Neptune has two satellites, Nereid and Triton, revolving in retrograde direction. Some astronomers have supposed that Neptune and Pluto have interacted. Uranus deviates from its ecliptic plane some 98 degrees with its satellites revolving around the equatorial plane, not its orbital plane. Saturn revolves on a disc-like plane providing an example of icy catastrophism. Jupiter is considered to have expelled Venus according to the cosmologist Veliovsky. The Trojan Asteroids are suggestive of some remarkable events and conditions to have occurred in Jupiter's past. The Earth has seemingly engaged in astral havoc at least four times: 800 BC, 1500 BC, 2800 BC and 10,000 BC. Mercury demonstrates a perihelion of 29 million miles and aphelion of 43 million miles with an orbital eccentricity of .206. Mars shows signs of being involved in its own celestial drama around 800 BC. The planet has a rotation speed of 24 hrs 37 minutes. It has a tilt of 23.5 degrees. The Old Testament writers described certain catastrophes that happened around 800 BC. Isaiah described such phenomena as the Earth wobbling like a drunkard, a blast falling from heaven and the Sun returning or suddenly going retrograde in the sky about 10 degrees. Homer described the same incident during the Greek Trojan conflict in the 8<sup>th</sup> century BC. There were earthquakes and extra-terrestrial misfortunes.

In review Patten has given us the idea uniformitarianism verses catastrophism, astronomical history related to uniformitarianism and catastrophism, the catastrophic circumstance from plate tectonic and tidal forces of the Biblical flood, the ice epoch, Darwinism and biological uniformitarianism, cosmogony and uniformitarianism, and astral catastrophism. The author provided detailed comparison and arguments for catastrophism.

So, this study contends that there was a universal global Flood, and that it could have been caused by the interacting gravities of two astronomical bodies of planetary dimensions-- the Earth and the astral visitor. Since the Earth possesses two fields, one gravitational and the other magnetic, there were two kinds of celestial conflict with the intruder. It appears that in one phase of this conflict, oceans heaved and ebbed in tides to a magnitude of 5,000 and perhaps 10,000 feet above and below mean sea level. This theory seems to placate the consequences or rather actions that took place during the flood event. Of course some of this is speculation or a way to describing the physical events that took place.

The cause of the ice epoch is a pivotal subject in the study of astral catastrophism. Once the nature and scope of the ice cataclysm is perceived, then astral catastrophism is easily recognized, and geophysical consequences, as they apply to Earth history, become apparent. Again, here, the author goes to some real extreme conjectures in trying to prove an astral catastrophism. Patten says that it is easy to recognize and I do agree with the theories such as a decrease in solar radiation, the passing of the earth through cold regions in the galaxy, an increased eccentricity of the earth's orbit, variation in the amount of carbon dioxide in the atmosphere, directions of high-latitude oceans currents, variations in the relative proportions of land and water, variations in the angle of the axis to the plane of the ecliptic, changes in the location of the geographical poles and shifts in elevation of land area relative to sea level.

Patten explains the reasons for the ice age as stated by the catastrophists and the uniformitarians. The catastrophic origins, transport, location and dating of this ice is said catastrophically to come from outer regions of the solar system with the transport from elliptical orbits and electromagnetic deflection with the location associated with magnetic latitudes and dating around 3 or 4000 BC. Whereas the Uniformitarian theory says it was from evaporated ocean water and transported via planetary wind systems and precipitation with it location associated with geographical latitudes with dates going back to 10,000 BC.

In the book entitled the 'Ice Age' by Michael Oard we see various aspects of the catastrophism that is concerned with causes dealing also with frozen mammoths and their extinction, climate and glaciation.

Oard tells us of the frozen carcasses of mammoths (hairy elephants with long hair, small ears and a tiny tail standing some 4 meters high) found in Siberia. This has been just one of the mysteries associated with the Ice Age. These animals were especially adapted to live in cold weather. There are literally millions of bones and tens upon tens of thousands of tusks weighing in at 45 kg that have been found. Many of the animals had to have been frozen instantaneously; some with food in their mouths and stomachs. There had to be temperatures as low as -100 degree Celsius according to some people. These mammoths were also found in Alaska and northern Canada; however most have been found in Siberia along with bones of horses, reindeer, bison, musk ox, wolf, bear, lion rhinoceros, moose and antelopes. The area was coined the mammoth steppe which was a vast grassland at the time. More puzzling was the fact that some were found in standing positions and most if not all died of suffocation and entombed in rock-hard permafrost. Today, large animals like the musk ox, caribou and moose live in these cold regents. Caribou eat lichens which they smell through the snow but this contrasts with the lack of food now present in the Siberian wastelands. But the climate was obviously warmer at one time yet they lived during the Ice Age when it was 12 degrees colder than present Siberian winters.

Uniformitarian scientists reason that a colder Ice Age climate would have helped the woolly mammoth. This is a climate paradox; the diversity of animals and ecological requirement suggest an environment different from today even different than what scientist's simulations of Ice Age climate should have been. Some credit the climate changes to there being 30% less carbon dioxide during the Ice Age than there was at the beginning of the industrial revolution. Methane has also increased substantially more than carbon dioxide. Thus these 'greenhouse' gases have increased a total of 60 percent. Another theory is the supposedly melting of the polar ice caps would increase the high latitude moisture but this is said to be insufficient to start an Ice Age. There are theories of increasing volcanic dust which was trapped in the upper atmosphere blocking some of the sunshine and thus causing cooler temperatures.

Since all of these animals were grazers, some have thought that the environment of Siberia would have been something like the Serengeti in East Africa. So, the conclusion is that Siberia was grassland during the Ice Age. The animals were also thought to have become extinct at the end of the Ice Age. Not just mammoths but hundreds of different species, so much so that the time is now referred to the great extinction. Uniformitarian scientists can't reconcile the disappearance of all these animals at the same time. 70 percent of the mammals weighing over 40 kg disappeared in North America along with 75% of those in Europe and

Asia. In Australia it was 90%. These were mammoths, mastodons, sabre-toothed cats, giant ground sloths, giant beavers, dire wolves and others. The evidence from Ice Age fossils implies an equable climate with mild winters and cool summers. Many geologists think these extinctions were caused by climate change at the end of the Ice Age. If this is true then what about the supposedly other Ice Ages that many scientists believe in. Others give credit to a 'over kill hypothesis where either climate caused it over man killed them all. Some creationists think that these animals were killed because of the flood while other creationists think they were killed toward the end of the flood and advocate a quick freeze.

Uniformitarian scientists support this view. I for one believe the dinosaurs died in the flood and this other mass extinction happened at the end of the Ice Age. During the 700 Ice Age years animal population increased rapidly due to geometric progression.

Oard thinks for the Ice Age to have developed, winter snow must have lasted throughout the summer and fall, thus developing an ice sheet or a glacier. Snow turns to ice. Evidence of glaciation is obvious from the mounds of debris or moraines that are left over from places all over the northern hemisphere, from the plains of North America and parts of Europe all were covered by glaciers. The edge of such an ice sheet went as far south as St Louis. This ice sheet was also found in northern Europe and northwest Asia. But this is just speculation, there's no real proof of this even in present day modelling. Many of the present day deserts and basins were once well watered or wet. One such place in Utah, the Great Salt Lake was about the size of Lake Michigan. In addition, these areas have many fossils of elephants, giraffes, buffaloes, antelopes, rhinoceroses and also, crocodiles, fish, clams and other aquatic organisms. These times indicate a wetter Ice Age than was before thought. These different animals are said to be in a disharmonious associations and this was the rule rather than the exception. As the Flood waters drained off the continents, while the land rose toward the end of the flood, water would have been trapped in basins that had no outlets. The precipitation during the post Flood Ice Age was enough to maintain those lakes. This mixture of animals of cold and warm tolerant was placed over the whole of the Northern Hemisphere. This type of gathering challenges mainstream Ice Age world view and it remains unexplained. In addition, post-flood Ice age has the potential to explain wet deserts, while the uniformitarian model with cold Ice Ages has great difficulty.

One such theory centres on astral catastrophes and catastrophic crustal shifts. Immanuel Velikovsky was one of the most influential people who ported this idea. According to him, astral catastrophes caused great upheavals over the earth and the demise of these animals enhanced this theory. Him and also a person known as Ginenthal suggested that a

sudden shift of the axis of the earth to vertical took place as Mars or Venus passed close to the earth and brought the warmer Siberian climate but later when the axis shifted back, this brought on rapid freezing conditions. With the earth's axis being vertical, an endless spring or autumn would cause snow and ice to build up reflect more sunlight back into space and thus increasing the coolness of the climate would result. It has also been discovered that the earth's orbit around the sun changes sometimes and in addition the earth's tilt even changes slightly over time. This change varies it from an ellipse to a circle. But scientist attitude toward any suggestion that would lead to catastrophism is frowned upon and thus blinded their minds toward a solution of the Ice Age, as well as for the mystery of the extinction of the animals after the Ice Age. The present is certainly not the key to the past as far as the Ice Ages are concerned. Even the present can no longer be considered as a norm.

Let's now look at the Biblical Flood as being the cause. The waters came from the fountains of the great deep. Lots of water covered the earth. There is also a vast, unusually thick layer of volcanic flows and ash interlayer sedimentary rocks which revealed incredible volcanic activity that has no parallel today. An eruption in New Zealand with a large ash layer was discovered. After the flood, there seemed to have been random eruptions as the earth settled down. This volcanism would show a slow decline with peaks and lulls, however uniformitarian scientists don't use this as they also believe that each ice age have lasted for hundreds of thousands of years. Creationist's put everything into a short time frame which would allow an ice age to develop and be sustained. There would also be extensive summer cooling with high snowfall. There would be abundant moisture from evaporation from a warm ocean at mid and high latitudes. Remember these waters came from the great deep which would have been heated from the mantle below the crust. The tectonic activity and lava flows would have also added more heat. There would have been no sea ice as this warm water would have melted it all. Also this mid and high latitude evaporation would produce massive amounts of snow. This climate would continue for hundreds of years after the Flood. The Ice ages would have had cooler summer and warmer winters. Glacial maximum came about when the ocean water and atmosphere at mid and high latitudes cooled enough for many areas close to the ocean glaciates. The depth of the ice sheets averaged out at 2,300 feet or 700 meters. The average precipitation over the ice sheets would have been about 1.4 meters a year. Then a climatic reversal, as volcanism gradually decreased and the earth became used to the new configuration of land and water, more sunlight warmed the summer and thus warmer summers came about with colder winters. The difference in atmospheric temperature helps us to understand the demise of the animals mentioned above. There would

be strong, windy, dry storms with cooler ocean water and polar ice. Reflectivity lowered due to melt and dust storms. This would have happened between 75 to 150 years. This caused additional flooding of Ice Age Lakes like that of Lake Bonneville and that of a flood in the Chuja River valley and also the Ob River of western Siberia.

Mankind was just starting over at the beginning of the Ice Age. It took them at least 300 years to get re-established before they started to scatter throughout the regents of the world. Shortly after the dispersion of the Tower of Babel, we see the Sahara teeming with life. Groups headed into India, Southeast Asia and on to the Americas through an ice free corridor. But it is difficult to conclude the purpose of the Ice Age. It isn't mentioned in the Bible but it certainly happened. Perhaps it is just an after effect of the flood. Job is most likely the only book written during the Ice Age. One must remember that it happened far from man kind. The earth's mild winters and cool summers could have been a purpose by God to enable the repopulation of the earth by man and animals. The end of these mild winters and cool summers is evidenced only by the quick death of these animals but how quick a death is uncertain, perhaps not necessarily a quick freeze death. Other indications show many of the same animals that died now live much farther south near the equator. But most were mammoths that died while other less so and perhaps many of them were able to escape. And in addition, the majority died in mounds of wind blown dust and snow. Here, again, uniformitarians don't see a unique climate at the end of the Ice Age as being the cause of multiple extinctions.

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