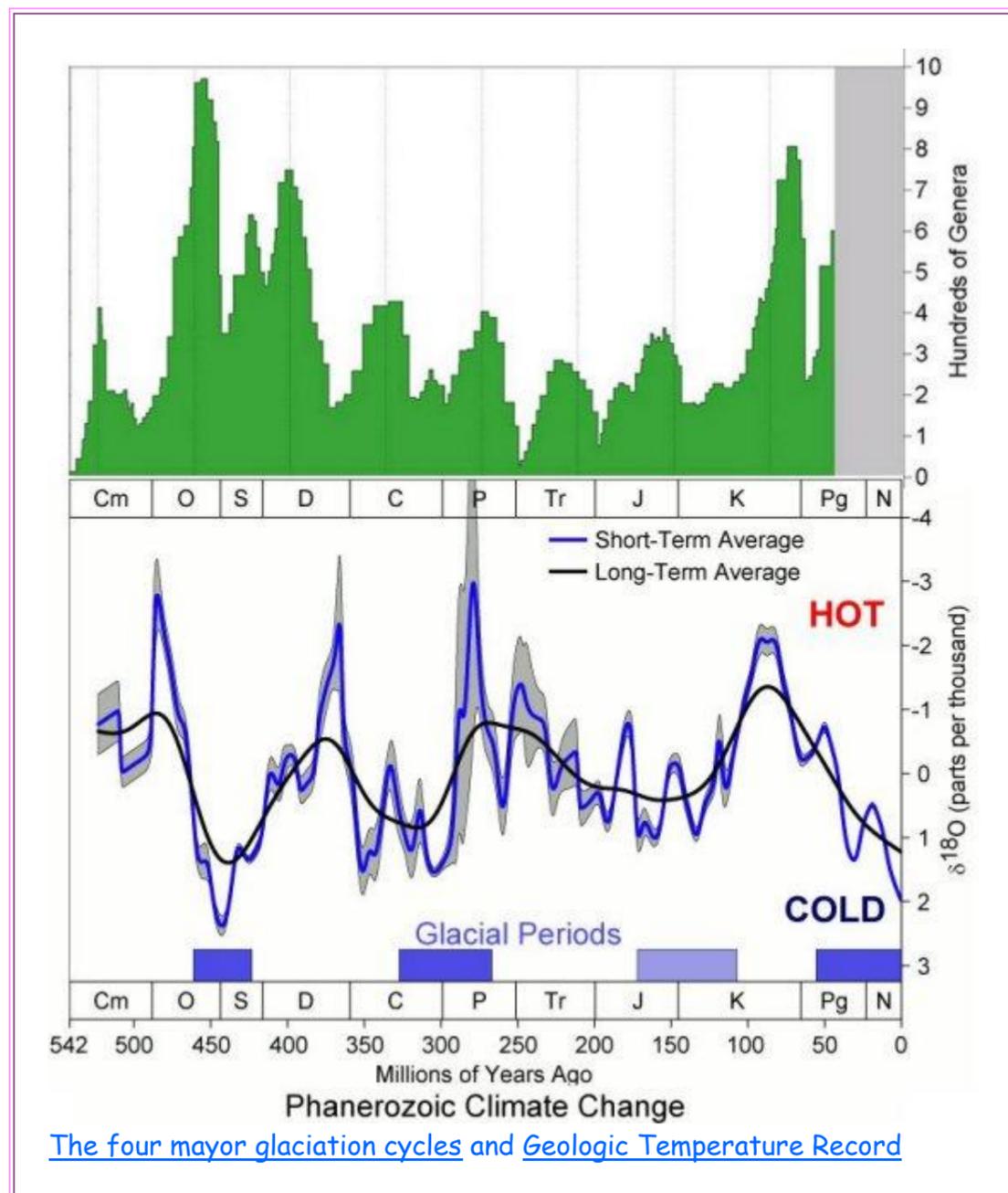


New Ice Age Ahead

Electric Energy Cycles affecting evolution



Don't scorn the Ice Age cycles. They may have enabled you to exist

Cycles for progressive evolution

There exists a close interrelationship between the general evolution of species on this planet and the 62-64 million year galactic cycle, the 140-150 million year cosmic cycle, the resulting great Ice Age epochs on our planet, and the cosmic-ray flux that is expressed in the Ice Age cycles.

Whenever the combined effect of the 62 million year cycle, and the 150 million year cycle, reaches a low point of the electric energy surrounding our solar system and thereby a low point in the climate, major glaciation periods happen. As far as can be determined, these cold periods result from reduced solar wind pressures that determine the strength of the solar heliosphere. The heliosphere attenuates the cosmic-ray flux density reaching the earth. When the heliosphere is reduced, the cosmic-ray density is greater. Cosmic rays ionize the water vapor in the atmosphere. Increased cosmic-ray density enables increased cloud formation. As a result we experience colder climates. It has also been recognized that the evolutionary power of the biosphere is more deeply affected by cosmic-ray by increases in cosmic-ray density than we may realize. These interrelationships are reflected in the large-scale evolution of species (indicated in green chart above). This deep-cutting interrelationship is also reflected in the small in modern history. (see:

[Mankind: Children of the Universe](#) - cosmic rays and mental development)

The climate cycle chart above has been constructed from sediments and ice core data. The [Oxygen-18](#) quantity in the atmosphere changes in ice layers, which is recognized to represent changes in average ocean surface temperature. Water molecules containing the heavier O-18 evaporate at a higher temperature than water molecules containing the normal [Oxygen-16](#) isotope. The ratio of O-18 to O-16 is higher as temperature increases and is less as temperature decreases. Various cycles in those isotope ratios have been detected. (for more, relating to the above diagram, see: [Reconstructing ancient climates](#) - for the green curve, see: [Fossil Records Show Biodiversity Comes and Goes](#) and the announcement below)

Large cyclical temperature variation, of course, have a major impact on the development of life and its ability to maintain itself.

Fossil records show mysterious 62-million-year cycles (presented by DOE)

A new analysis of marine animal fossil records over the past 542 million years shows that biodiversity seems to rise and fall in mysterious cycles of 62 million years.

The analysis was performed by researchers with the U.S. Department of Energy's Lawrence Berkeley National Laboratory (LBNL) and the University of California at Berkeley (UC Berkeley).

"What we're seeing is a real and very strong signal that the history of life on our planet has been shaped by a 62 million year cycle, but nothing in present evolutionary theory accounts for it," said Richard Muller, a physicist with LBNL and UC Berkeley.

Muller and graduate student Robert Rohde discovered the 62-million-year fossil diversity cycle after creating a computerized version of the Compendium of Fossil Marine Animal Genera, the most complete reference available for studying biodiversity and extinctions.

For the study, Muller defined fossil diversity as the number of distinct genera alive at any given time. This yielded 36,380 genera whose history the scientists tracked over time.

Muller and Rohde first discovered the 62 million year biodiversity cycle in November 2003. They spent the next year trying to either knock it down or explain it.

The researchers examined 14 possible geophysical and astronomical causes of the cycles but no clear explanation emerged.

Muller suspects there is an astrophysical driving mechanism behind the 62-million-year periodicity. Rohde prefers a geophysical driver, possibly massive volcanic eruptions triggered by the rise of plumes (hot material from near Earth's core) to Earth's surface.

For more, see [Biodiversity May Have Natural Rise and Fall, Scientists Say](#) (17 March 2005)

The 62 million year cycle paradox

We face an apparent paradox with a 62 million year cycle attached. It is believed that astrophysical factors cause repeated extinction events, such as cyclical cycles of death that have occurred in 62 million year increments. In support of the myth, since the mythological belief in apocalyptic cycles creates the kind of irrationality in the mind that the master empire desire in other to hinder scientific development, science has become pressed into service to support the myth, especially that which supports apocalyptic death cycles. All the doctrines of mythological science, boxed in by consensus as a trap, fall into this category such as the Big Bang dogma, and dark matter, dark energy, black holes, and so on.

One of the science-myth consensus-trap is the modern dogma of the "Density Wave." It fully supports the consensus-science of a universe that is electrically dead and is ruled by gravity alone. The consensus box contains all the science trash that banished the electric force from being recognized in cosmology. In this box of consensus, some might call it academic quackery, we find all the big mythologies that no one can prove

- the big bang, dark matter, dark energy black holes - nicely protected from reality. Here is also where we find the Density Wave doctrine located, which is hailed in modern days for its apocalyptic potential.

See: [The Density Wave vs Electric Cycles - science boxed in by a myth](#)

The inconvenient facts

Inconvenient facts of reality don't seem to matter much against the weight of apocalyptic predictions that require a 62 million year death cycle..

The 62 million year death cycle is is deemed to be needed to explain the 5 major historic extinction events. There is a loose alignment apparent of the extinction events being related to 62 million year intervals.

If the 62 million year spacing spacing was regular, counting backward in time from the extinction of the dinosaurs at 65 MA, we should see extinction events at 127, 189, 251, 313, 375, and 437 Ma. (Ma is a unit of time equal to a million years).

Some of the big 5 extinction events actually are not that far off, dated at 65, 205, 251, 360-375, and 440-445 MA, thus the notion developed that they must be cyclical, and theory was conjured up to prove it. In reality none of the events has a common cause.

On this line we see inviting coincidences. The [Permian-Triassic extinction event](#) matches the theoretical 251 Ma mark. The [Late Devonian extinction](#) is dated within 15 million year time frame that ends at 375 Ma. Does this prove anything? Not likely. In the same manner, the [Ordovician-Silurian extinction event](#) that is dated to a time frame of 5 million years ending at 445 Ma, falls near the computed 437 mark. Does this prove the theory of cyclical extinction, especially since each had a different cause, most of which appear to be directly related to the geophysical history of our planet and its historic integration into the solar system.

See: [Solar System Origin - assembling the solar system](#)

In the real terms nothing proves the apocalyptic 62 million year death cycle theory. Each of 5 great extinction events had a different cause for the resulting extinction.

The distant Ordovician event is generally believed to have been caused by the extensive glaciation of the deep ice age that was occurring at the time.

The later Devonian event appears to have been caused by a biological factor related to the massive greening of the planet. The event itself is spread out over a long period, possibly 15 million years, resulting in reduced atmospheric CO2 levels and correspondingly reduced oxygen levels in the oceans.

The [Permian-Triassic extinction event](#) at 251 Ma is understood to have been triggered by an astrophysical event that caused the flood basalt eruptions of the [Siberian Traps](#), one of the largest known volcanic events on Earth that spread lava over 2 million square kilometers (772,204.3 sq mi) in some places several thousand feet deep. The Siberian Traps eruption was formerly thought to have been a long series that lasted for millions of years, but recent research dates it to a single event at 251.2 ± 0.3 Ma.

The still later [Cretaceous-Tertiary extinction event](#) at 65.6 Ma is of late deemed to have been caused by a meteorite impact (see: [The Mystery of Chicxulub Crater](#)). It is also believed that the Cretaceous extinction that wiped out the dinosaurs may have been triggered by an astrophysical impact event that caused the huge basalt eruption that created the [Deccan Traps](#) in India, which has been dated to this timeframe. It has been further suggested, more recently, that the dying out of the dinosaurs, at least in part, might have begun long before the big extinction event happened that killed them all. It is being suggested that this increasing die-off of the large dinosaurs might have resulted from a 'gradual' increase in the Earth's gravity in the cretaceous time frame.

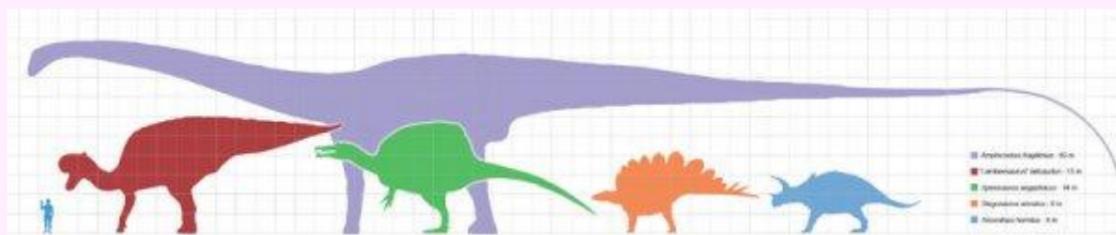
A change in gravity sounds unbelievable, but is it really?

"Most conventional theories assume that gravity throughout the universe has always been, and will always be, a constant property of matter. But that's only an assumption, and it must be verified empirically. The Electric Universe offers a different point of view. Gravity is not a constant. It's a variable that depends on the plasma environment. So, the Earth in the Mesozoic Era all the way to the end of Cretaceous period may have had dramatically less gravity than it has today." (see: Jun 23, 2005 - [Impossible Dinosaurs](#))

The question has been asked in the above article: How could a 200 ton dinosaur walk in today's world? Like a beached whale?

Consider a 100 Kg Hyena. It is a fierce creature that no one would want to encounter. But if this creature grew 10 times in size, it would weigh a 100 tons. Its legs would have to carry 1000 times more weight, but its bones would only be 100 times larger in cross-section area. Each leg would have to carry the equivalent of a full sized city bus. This creature wouldn't walk by any means, much less run.

Today's largest land animal, the elephant, weighs only a mere 12 tons at the very most, which appears to be the limit under today's conditions. So, how did the great 100-ton to 250-ton giants walk? Did they walk in 25% gravity? The biggest would have been roughly the size and weight of a Boeing 747 jumbo jet. Can you image such a giant being supported on two stumpy legs, as they would have, while walking?



see: [Dinosaurs](#)

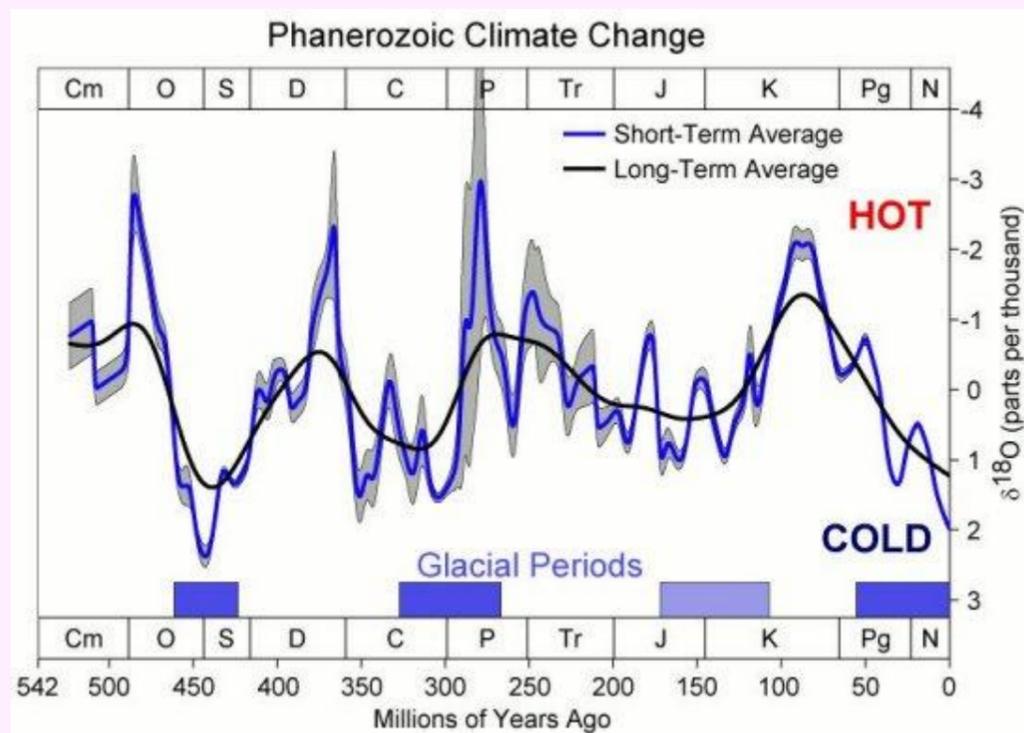
The answer seems preposterous, but is really? The fact is, we don't know for certain what actually causes the force gravity. We can measure it. We can see that by its force, for example the mass of the Sun has a hold on the mass of the planet Pluto across 7,375 million kilometers of space, but nobody knows by what means this force is exerted, especially over this vast distance. An electric-force-related cause is suspected. We cannot assume that some of the factors related to the cause for gravity might not be variable, subject to certain conditions. This means that the giant dinosaurs may indeed have walked in 25% gravity or less, and may have walked with ease. We have found their footprints on the land.

There exists scientific 'proof' that a dramatic change in the Earth-Sun relationship might have caused a rapid increase in gravity on Earth that is coincident with the early extinction of the very large dinosaurs. This may have occurred during a critical stage of the assembling of the solar system.

see: [Solar System Origin - assembling the solar system](#)

The point in all this is that we tend to look at geologic history with the same yardstick that we apply to the present world, and not just in terms of gravity. We know from the history of sediments that the climate on Earth was not only affected by the 62 million year cycles, but has also affected by 140-150 million year cycles that were even more strongly expressed, and over much longer time spans. In combination the two cycles have given us four glaciation periods spaced roughly 145 million years apart. We can see the effect. We even know that the first big extinction events coincides with the downward addition of these two cycles, which gave us the first ice age period that cause a major extinction of life. The origin-process of the solar system appears to be that cause for all the other extinction events.

Before we get into that, let's first look at how the combination of the two cycles is expressed in relationship to the known extinction events.

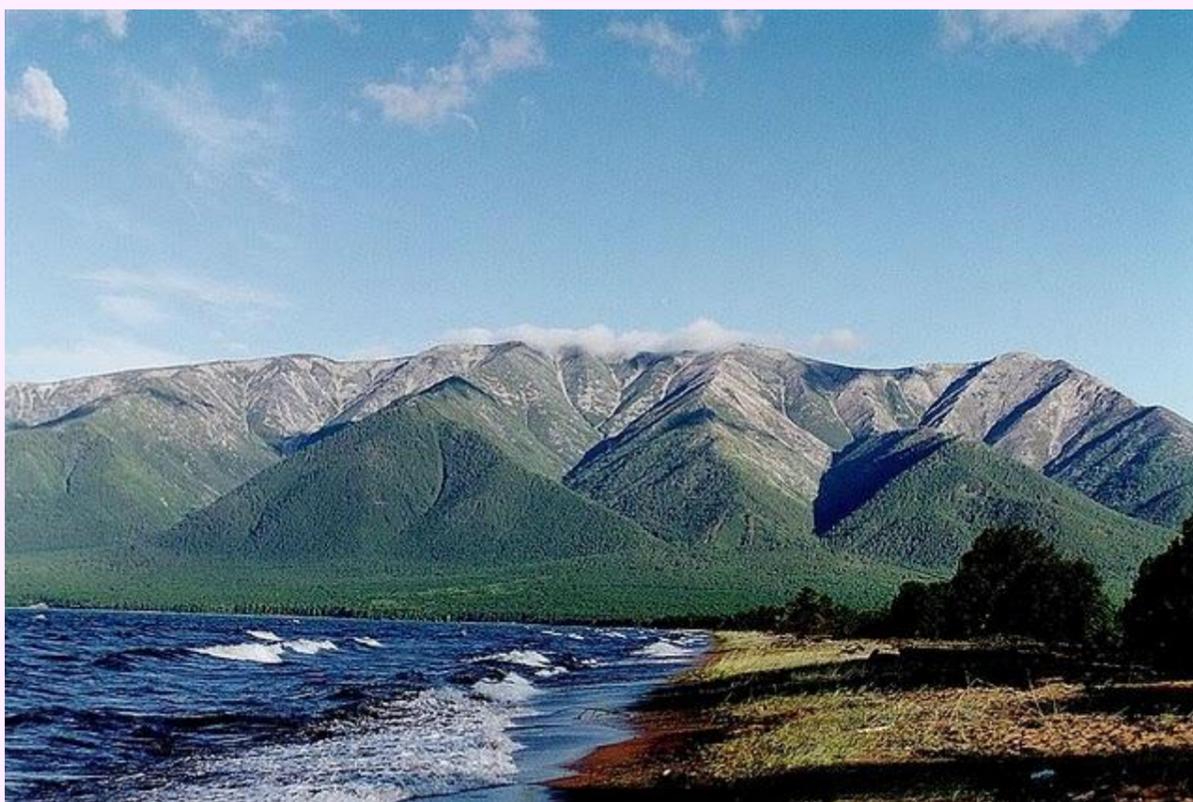


[see: Geologic Temperature Record](#)

The second big extinction event, the Late Devonian event at 375 Ma, puts us onto an climatic upward spike. Plants began to grow on land at the time, the CO_2 levels dropped, the oceans became warmer, and with less CO_2 being absorbed in the oceans, the oceans had less oxygen produced in them, which, in combination with the warming, apparently wiped out 70% of all marine species.

The third big extinction event, the [Permian-Triassic extinction event](#) at 251 mybp occurred neither on an upward spike, nor in a glaciation period, but it did occur at a fairly warm level. Every warm period is also a period of high-density electric flux in the solar system. It is in such a high-density electric environment that we see the great volcanic events occurring, including the greatest in the eon of life on our planet, which produced the giant Siberian flood basalt traps.

In today's terms, volcanic eruptions happen when lava is forced to the surface by the enormous pressure of tectonic movements. For the giant Siberian event such a simple volcano would not have sufficed. The erupting lava flow covered two million square kilometers (five-times larger than the state Texas) with basalt flows two kilometers deep in some places. It is conventionally believed that an extraordinary convection flow beneath the surface had melted the crust. However, no evidence for such a happening exists. It is far more likely therefore that a large cosmic discharge event occurred that simply evaporated the crust down to the magma level (the basalt level) and literally lifted the magma out of the ground. (see: [The Siberian Traps](#))



[Siberian Traps](#)

An eruption that covered 5 times the size of Texas with lava on the scale shown above, was bound to have global consequences. And it did. About 96% of all marine species and an estimated 70% of all land species, including insects, became extinct at this time, by this event. It took 30 million years for the vertebrates species to recover their dominance.

The "Great Dying" obviously had enormous evolutionary significance for life on land as it had ended the primacy of [mammal-like reptiles](#) and had created the opportunity for the [archosaurs](#) (the forerunners of modern birds and crocodiles) to become ascendant. (see [Mass Extinction](#))

The cataclysmic event itself was not anything special, though it it was the largest of its type on Earth, though a cosmic event by its nature. In case anybody would not be clear on that point, the cosmic forces had placed their signature in a corner of the new landscape, right on top of the Putorana Plateau, in the form of a giant Lichtenberg figure, which in time became recognized as the universal signature of gigantic electric discharge effects.

See: Aug 12, 2010 [The Interconnected Sun Part One](#) - Aug 13, 2010 [The Interconnected Sun Part Two](#)



The Putorana Plateau in northeastern Siberia. Credit: Jeff Schmaltz, NASA/MODIS - see: [The Siberian Traps](#)

We would see these Lichtenberg figures again in the carving out of the Grand Canyon in Arizona, which appears to have occurred in a single act of electric discharge machining, removing 1,300 cubic kilometer of rock that might have become the sand of the desserts to the north as far as Nevada and Washington State.



[The Grand Canyon seen from space](#). Credit: Rick Searfoss, retired Space Shuttle commander

We would also see these Lichtenberg pattern again on Mars in the form of the famous Valles Marineris. The unique details were recognized once we came close enough for detailed observation. Valles Marineris is the largest visible canyon in the solar system. It is more than 4,000 km long, 200 km wide and up to 7 km deep. (see: [The Lightning Scarred Planet Mars](#))



[Valles Marineris](#) - NASA

We are clearly dealing with cosmic forces here. On Earth the Siberian traps were formed at one of the high points of the 140-150 million year cycle at 251 mybp. This very long 150 Ma cycle is clearly a cosmic cycle. Or galaxy is simply too small to cause a 150 million year cyclical event. Attempts have been made to explain the 150 million year cycles as being related to the internal dynamics of the galaxy by supposing that the solar system, in its orbit around the galactic center, would pass periodically through the various spiral arms of the galaxy, encountering different conditions of cosmic radiation, and so forth.

This scenario is the kind of explanation that one would have to resort to by denying the existence of electric forces in the Universe, so that the galaxy is its own thing and everything within it results from its own dynamics. The result, however, is a form of mysticism that supposes that by some magical reason the solar system is being singled out as the only star system orbiting around the galactic center, whereas in reality

the entire galaxy is rotating as a single unit.

In reality, just as the solar system is electrically connected to the galaxy, our galaxy is connected to the cosmos by similar electric power streams. In considering the distances that we see in the cosmos, the existence of 150 million year resonant electric cycles is well within the range of what is known about the dynamics of electric resonance circuits in the small.

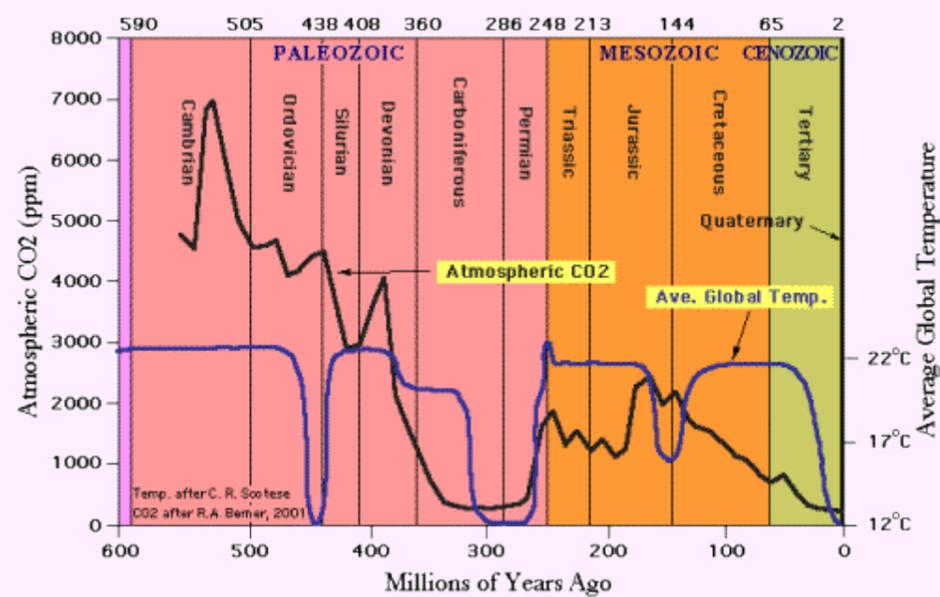
For our Earth the long cosmic cycle is the strongest expressed cycle, which is modulated with the weaker 62 million year cycle, which in turn is further modulated at the level of the earth, with the 100,000 year Ice Age cycles, and so on.

The very long 150 Ma cosmic cycles have so far been involved in all the large-scale electric discharge events, including the extinction at 65.5 mybp that ended the era of dinosaurs. This particular cosmic/galactic event coincided with the flood-basalt event in India that created the Deccan Traps. It also coincided with the forming of major electrically carved craters on earth, one of which is several hundred kilometers wide. (see: [The Mystery of Chicxulub Crater](#))

It is believed that by the time the extinction event happened, most of the dinosaur species had already died out, for which, as strange as this may seem, a gradual gravity change may have been the causative factor.

In any case, it seems unreasonable to look at the historic geologic world with the yardstick of today, or vice versa. We are presently at or near the lowest point of both the 62 Ma and 150 Ma cycles. With both being at a low point, we have reached a stage similar to the great glaciation epoch that caused the [Ordovician-Silurian extinction event](#) 450 million years ago. We are in another ice age period.

We are also at a unique stage in conjunction with the ice age period. We are presently experiencing the lowest atmospheric CO2 concentration of the entire [Phanerozoic Era](#).

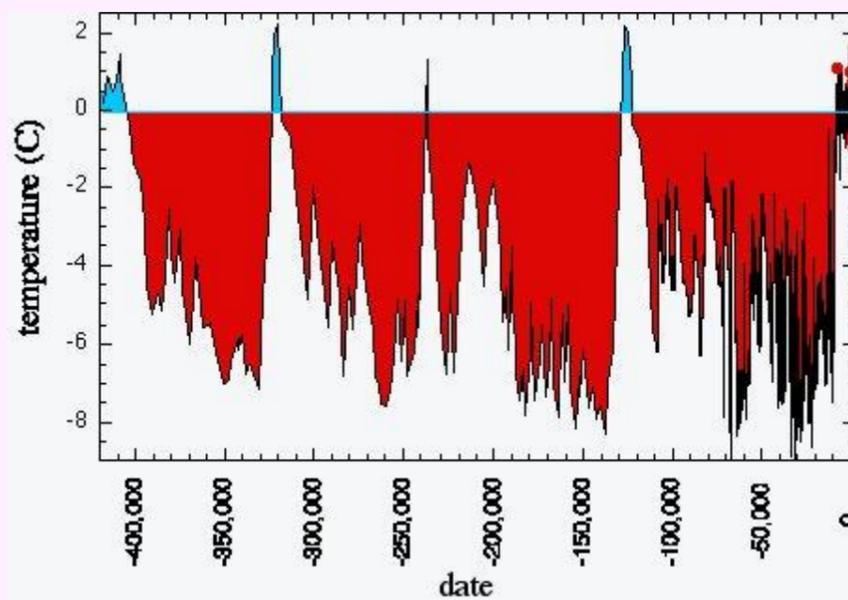


See: [Real Science](#)

CO2 is critical to all life, plants, animals, and marine life. In terms of plant growth potential, we are presently operating our biosphere in starvation mode, which has some serious potential consequences.

Greenhouse operators are able to get a 50% increase in plant growth by simply doubling the CO2 concentration in the air in the greenhouses. We are presently at 380 parts per million. If the concentration drops below 200 ppm, plant growth stops or slows to a crawl. With this present deficiency - the lowest level on record - we are entering the coming ice age. We are facing a 'crisis' thereby that has never been faced before.

In addition we face the end of the current short term interglacial period, and with it the start of the next glaciation cycle of which mankind had 5 already in the last half million years, which mankind has until now only precariously survived. Mankind came out of the last Ice Age, after two million years running, with a minuscule world population of roughly 1-10 million people. Now we face another round of deep cold temperatures.



[Climate history of the last 420,000 years](#)

We now face the next Ice Age with a near 7-billion world population, and we face it with a wrecked economy, a starving biosphere, and a billion people on death row dying of starvation while a huge commitment has been made to burn food in cars as motor fuel. We are facing the most critical challenge in our entire history with a culture that is committed to society's self-extinction, financially, politically, economically, and militarily.

Neither of the two long-term climate cycles pose any danger to us with their near promise for another ice age. The only danger we face is by us not looking at the future and preparing ourselves in the present for the next glaciation cycle that will wipe out nearly all of our present agriculture, except for a tiny bit in the tropics.

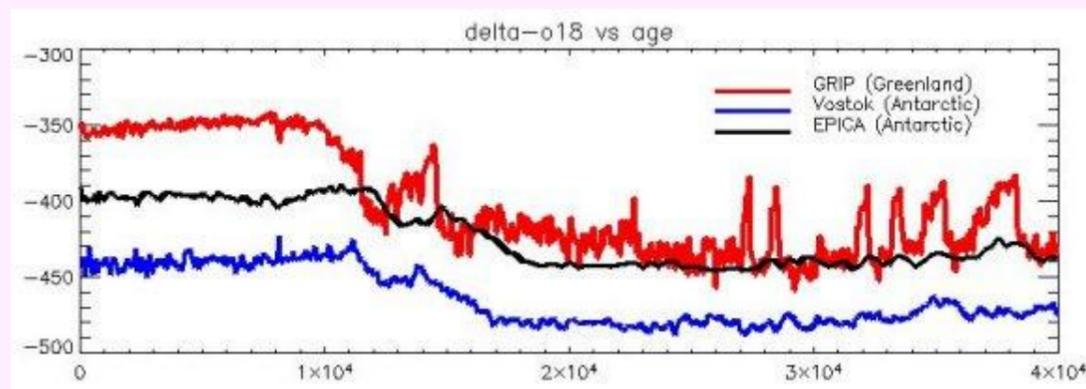
We live in quiet times now

Astrophysically, we are at a near dead-quiet stage. With the 150 million year cycle and the 62 million year cycle both being at a low point in electric intensity, the age of the big electric discharge events is over. The biggest astrophysical event that happened in recent time was the [2008 Tunguska event](#) in Siberia when an electrically charged meteorite, or comet fragment, entered the atmosphere and exploded. It exploded with the force equal to between ten and thirty million tons of dynamite going off at once. The explosion blew down 80 million trees over an area of 2,150 square kilometers.

A several-times larger event, the largest electric discharge event in the current interglacial era occurred when the Earth was grazed by an object from space that electrically fractured and exploded in the atmosphere into a trail of sand that covered the Sahara that had once been green, which thereby became a desert. (see: [Sand of the Sahara](#)) While these events seem huge, in comparison with geologic times they are small events.

The immediately critical cycle - the coming New Ice Age

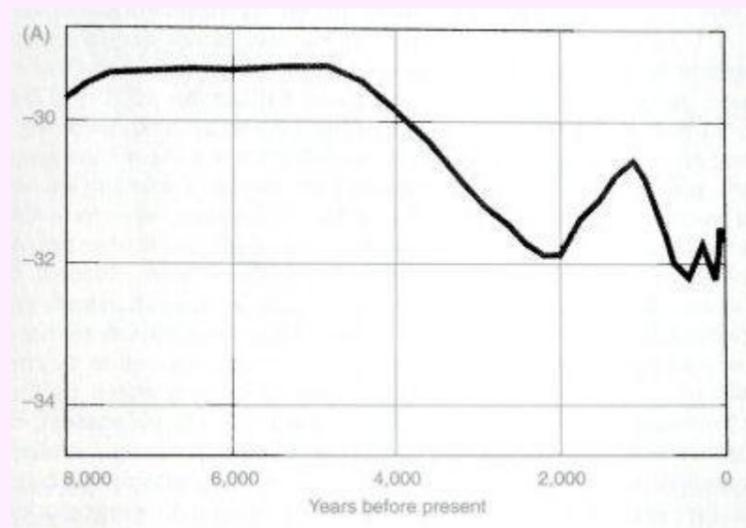
We have nothing to fear in terms of big events, from either the long cosmic cycles or the galactic cycles, or both, which together have caused the great extinction events. The only critical cycle that affects us today is the 100,000 year ice age cycle. We are facing the start of the next big one, another long 90,000 year deep freeze that comes around after every interglacial warm period. Mankind had a nice holiday from the cold - called the Holocene period. It gave us ideal climates for agriculture for 14,400 years. But this time is ending.



see: [Younger Dryas](#)

If we look backwards in time in the glacial and sediment records, it is evident that the general warming of our planet ending the last ice age, began around 17,000 years ago. Then a big jump occurred around 14,400 years ago, followed by a 'brief' cooling, termed the Younger Dryas event, with another major warming happening around 12,000 years ago. The start of the interglacial period is located within this general timeframe.

The end of the interglacial will likely not be a sharply delineated event either, but will be marked by fluctuations along the way of the type that we have already seen in the last several hundred years with fluctuations between the medieval optimum and the Little Ice Age in the 1600s. It has been suggested that the end of the current interglacial is already overdue by 500 years, which suggests that the Little Ice Age may be the marker of the start of the already-happening transition period towards the impending next glaciation period. If we look at the climate progression of the current interglacial period with the fluctuations smoothed out, we see the kind of ripple pattern that is typical for a breakout from a major established dynamic system.

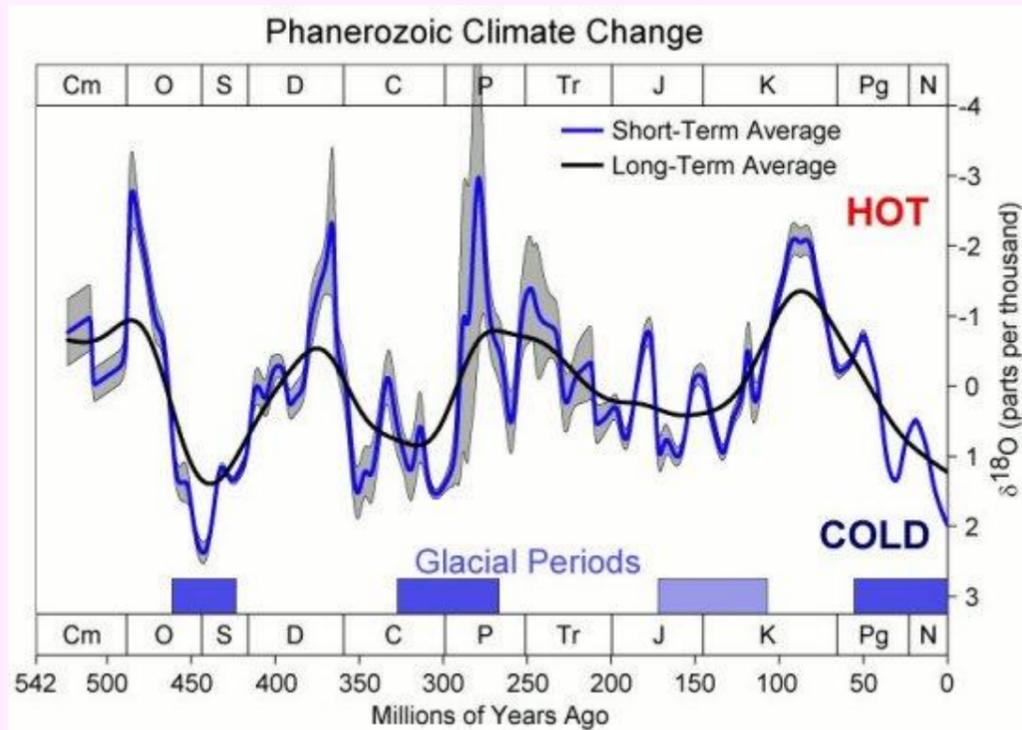


Attempts have been made to correlate the glacial cycles that we have ice core records for, with the Earth's orientation to the Sun according to the cyclical variations of the orbital characteristics of the Earth (the Milankovitch cycles). While the computed results illustrate that a weak relationship indeed exists, they do illustrate that a major galactic factor is superimposed. According to the Milankovitch cycles we should be in deep ice age conditions right now, but we are not there yet.

Since the galactic cycles are electric in nature and are determined by a dynamic system that is constantly in motion and includes 200-400 billion suns, the exact ending of our interglacial holiday is impossible to determine by anyone on the planet, even while the ending process may have already begun. We see tell-tales only, like the shrinking of the heliosphere over the last 50 years, but we cannot know if what we see marks a trend or just another fluctuation. However, considering the consequences of the onset of the next glaciation cycle, shouldn't we prepare our planet as if the transition was already in progress, which it may be? Shouldn't we be building the infrastructures needed to protect our food supply from the impending cold climate? Our food supply is our agriculture. It is in danger to be lost when the climate turns cold. This danger is enormous. Nobody can live without food. (see: [Ice Age anew & Renaissance](#))

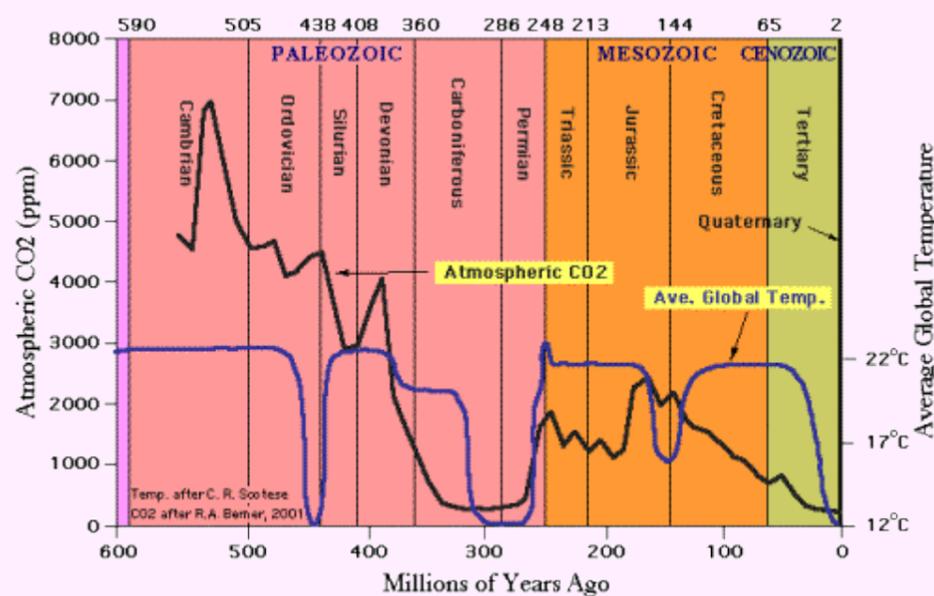
Here the 62 million year cycle comes into play

While the 150 million year cycle has the greatest impact on the heating or cooling of our planet, the further modulation of this cycle by the 62 million year cycle gives us the 'sharply' delineated major glaciation events that the Pliocene and Pleistocene ice age epochs are the latest expression of. We always come back to the interaction of these two cosmic and galactic cycles.



Within this late glaciation period we saw Antarctica freeze up around 33 million years ago, then thaw out ten million years later, and freeze up again around 12 million years ago, all in accord with the 62 million year cycle. Later, with the 150 million year cycle getting closer to its low point, and the 62 million year cycle getting lower likewise, we see Greenland freezing over roughly 5 million years ago and the Pleistocene ice age cycles beginning 2 million years ago. The Pleistocene will likely be with us for another 2 million years according to the dynamics of the 62 million year cycle.

450 million years ago the same combination that we have today gave the world the deep glaciation that resulted in the second-largest extinction of life in Earth's history. We are in a similar situation once again, but with an additional factor of severity added. When the deep freeze hit the Earth 450 million years ago, the atmospheric CO₂ levels were 12-14 times greater than they are today, which kept the food supply levels in the oceans relatively high, considering that CO₂ may be the most critical molecule to life, and that is all life. For this we are presently at the lowest point, lower than ever before.



See: [Real Science](#)

Atmospheric CO₂ began to drop rapidly with the dawn of plants on land in the atmosphere, starting in the Devonian period. The prolific plant growth had quickly reduced the atmospheric CO₂ to nearly today's level, which continued right into the Permian Period. This period was a difficult one for all life on the planet, even before the great Permian extinction happened that resulted from with the huge volcanic event that created of the Siberian flood basalt Traps. It might well have been this volcanic event, which had caused Permian

extinction 251 million years ago, which in the larger sense has brought a new boost for life onto our planet and gave life a second chance. The volcanic event brought the CO₂ level back up sharply, back into a range at which the biosphere could be more vigorously productive. Without this increase in CO₂ levels the age of the dinosaurs might never have happened, and the age of mankind likewise might not have happened. It appears that we owe our existence to the cosmic events that tragically also caused the Permian extinction.

It appears that some time later another major volcanic event happened, this time in the middle of the Jurassic Period. The second event, another large event, brought the CO₂ level up once more, which soon thereafter diminished again towards the starvation level that we have today. And here is where the critical factor begins, because we have entered the modern zone of deep glaciation events, with the biosphere at a near starvation level. This has never happened before. This is today's challenge.

The CO₂ uplift that nearly doubled the atmospheric concentration during Jurassic period, may have been caused by the flood basalt event that created the huge mid Atlantic basalt field. During the Jurassic Period the super-continent Pangea began to break up. The **North Atlantic Igneous Province** (NAIP) erupted at the dividing line that later became the Atlantic. The volcanic event created a [large igneous province](#) - a huge flood basalt low that covers an area of at least 1.3 million square kilometers and contains 6.6 million cubic kilometers of basalt. (see: [North Atlantic Igneous Province](#) also see: [Basalt without limits](#))

It is estimated that the Atlantic flood basalt event occurred much later in time. However, it may also have resulted from the tectonic action that caused the breakup of Pangea, or more likely it was caused by a cosmic electric event during the high-point of the 62 million year cycle that occurred during the Jurassic period. It might well be, therefore, that "[Triassic-Jurassic extinction event](#)" that occurred at this time, was related to the Atlantic flood basalt event. It might further be that we ourselves owe our existence in part to this further uplift of the CO₂ concentration that was caused in Jurassic time by the volcanic event that created the North Atlantic Igneous Province and would thereby have boosted the Atmospheric CO₂ level. Without this second boost, our time might not have come.

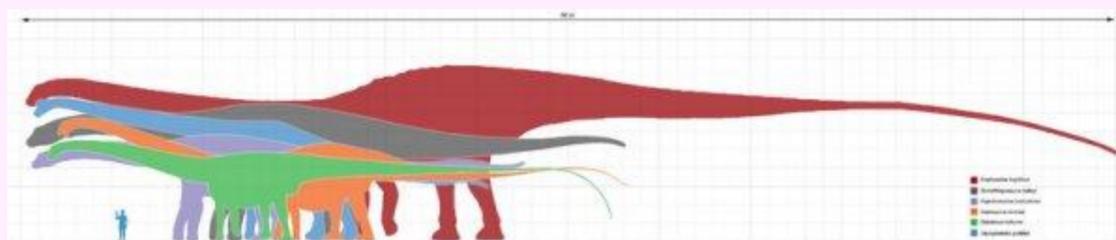
Our present non-response to the coming end of the Holocene warm period, especially with the biosphere being presently at the deepest starvation level, could lead to another mass extinction on the Permian scale. In the Permian extinction 90% of all life ended. The return of the ice age, with no preparations being made for it, could have the same effect on mankind and on civilization.

On the other hand it might also be that society will develop the potential it has to uplift itself into a higher mode of living to create the kind of new infrastructures for agriculture that the coming ice age cannot touch, and to complete all this in time before the deep cooling begins. Nobody knows, or can know, when the tide will turn on this issue, and how long it will take to transfer 80% of the world's agriculture indoors with an artificially enhanced atmosphere, or to relocate it into the tropics where the CO₂ concentration is higher.

Today, one sees no one interested in responding along this line. Neither are any preparations being made or even considered. Instead, society dreams the mythological dream of global warming - oh, if this dream could only become true!

The lesson taught by the dinosaurs

If we accept their lesson as true, it may one day be a life-saver for our planet



see: [Sauropoda](#)

By the [Late Jurassic](#) Period (150 million years ago), the giant sauropods were widespread, standing as much

as 60 feet tall, 180 feet in length, and weighing as much as 240 tons.

The lesson they teach us is two-fold. One lesson is that the CO_2 is critical to life. The giant sauropods emerged after the second increase in atmospheric CO_2 occurred, whereby food became near infinitely abundant. The second lesson they teach is that the force of gravity is not absolute, but contains a variable factor that responds to external conditions. There is no way conceivable that these giants could have walked the Earth under conditions of today's gravity.

If we accept this lesson and discover the variable factor of gravity and learn to control it, it would revolutionize space flight. It would likely enable mankind in the future, possibly during the next Ice Age, to import massive amounts of CO_2 to augment the dwindling concentration on Earth, especially during ice age conditions when the CO_2 level drops, because of the cold. Record lows of 150 ppm or below have been recorded for some periods during the last glaciation cycle. At this extremely low CO_2 level plant growth stops. This means that we would then look to Venus during the next glaciation cycle, which is rich on CO_2 , to supplement our planet. Venus has a heavy atmosphere that is roughly 96.5% [Carbon dioxide](#) and 3.5% [Nitrogen](#). When space flight becomes enhanced with controlled or reversed gravity, the technology would make the existing resource on Venus available to us. This means that the planet Venus may indeed become one day as 'the bringer of light of life.'

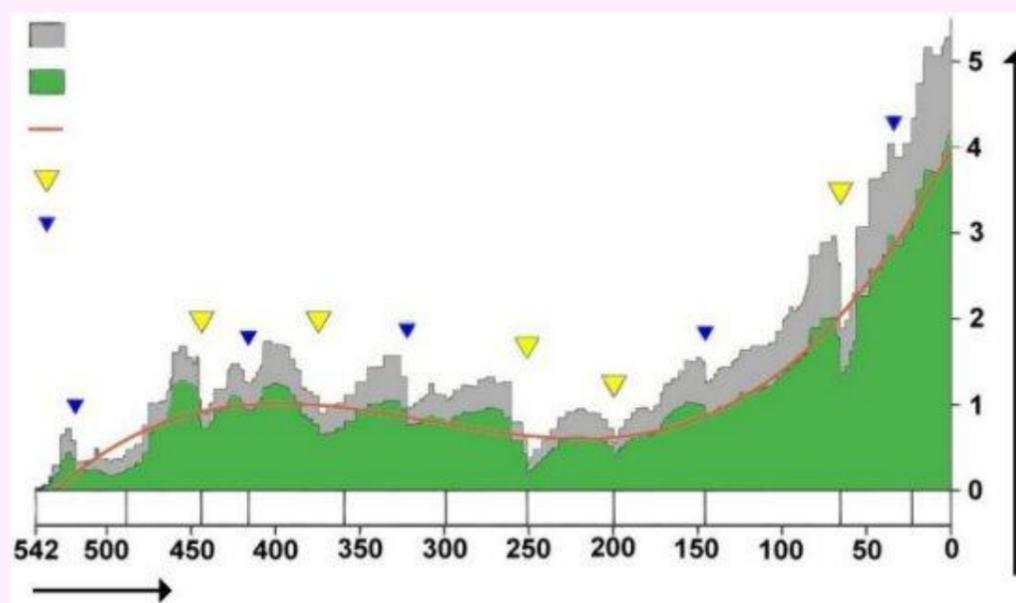
The cultural cycle of holocaust

We, mankind, are presently in an insanity cycle. We create artificial earthquakes that destroy our cities. We kill our best young people in wars and in counter-culture insanities. We also kill one-another in an ever-widening holocaust - upwards to a 100 million a year - by taking food out of people's reach and burning it as biofuels in a world of a billion people living in chronic starvation.

In Permian time the mass extinction was caused by astrophysical forces that none could escape. In modern times we do the mass-killing of us by ourselves. That's a cultural failure - a cultural holocaust.

The development of the biosphere has been progressive

In spite of all the mass extinctions of life on our planet, the biodiversity on our planet has been progressively increasing. As species of life became extinct, new species and more of them continuously their place. In the overall unfolding of life even the largest mass-extinctions rarely caused more than just a ripple.



[Phanerozoic biodiversity](#) -

yellow = 5 big mass extinction,

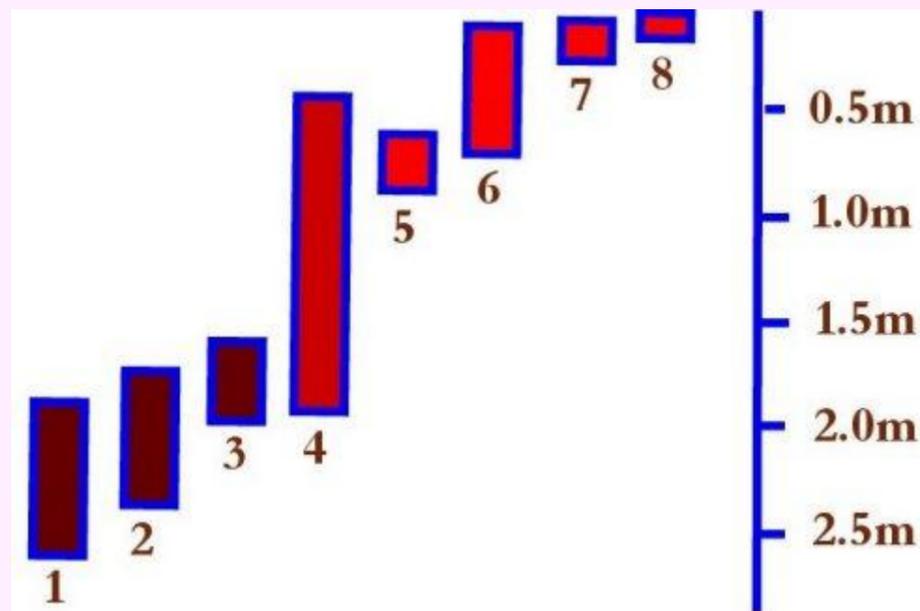
blue = minor extinctions

Even the deep ice age, of around 450 million years ago, barely shows up in the overall dynamics of life, and

that event was a big one.

The [Ordovician-Silurian extinction event](#) of 440-450 mybp, at the time of the [Ordovician-Silurian](#) transition, is ranked by many scientists as the second largest of the five major extinctions in Earth's history in terms of percentage of [genera](#) that went extinct - 27% of all families of species and 57% of all genera were killed.

Yes, ice ages are harsh. The current species of mankind, the homosapien, is the 8th major species of man that developed during the last three million years of the existence of humanity, and remains as the only species that did not become extinct at some point during the numerous ice ages in mankind's past. The question today that stands before us, is whether we will break out of the long historic extinction cycle, or whether we will continue to go down with it like like all the other species of the family of man before us.



The families of man

We, the homosapiens (8), are roughly the eighth major human species. The previous seven major species and groups of species have become extinct, in one case after a million and a half years of existing. This may have happened as the result of one of the many Ice Ages. Their names barely live on only in scientific language, where they are known as the australopithecus rudolfensis (1), the australopithecus habilus (2), the homo ergaster (3), the homo erectus (4), the homo antecessor (5), the homo heidelbergensis (6), and the homo neandertalensis (7). In fact we barely recognize ourselves as the homo sapiens (8) - the sole survivors and the shortest lived of them all, at barely 200,000 years of age.

Homo erectus had existed for 1.5 million years and became extinct. However, for the first time ever, and as the first human species ever, we have the capacity at our present stage to take the sting out off the ice ages and bypass their tragedy that other species may have suffered and became extinct thereby. We have the power to do this, provided that we apply the capacities that we have developed to overcome the historic pattern.

Some people may doubt that we have the required capacity to achieve the necessary technological wonder that can save us from the coming Ice Age. Global indoor agriculture is a giant undertaking. It requires new materials, new energy resources, new technologies, new economic platforms for financing, and so on. But it appears that we can face all of these challenges and succeed.

see: [2011 - Industrial Revolution](#) - [MSR/LFTR Liquid Fluoride Thorium Reactor](#)

In order to judge the potential that we have rooted within our humanity, let us look at what we have already achieved.

As we entered the Holocene Epoch (the current interglacial epoch) with the relatively small presence of just a few million people, we did so preceded by a journey to our credit through the difficult conditions of roughly 20 Ice Age cycles spanning 2 million years that has evidently raised our creativity to a higher qualitative level. With this a new phase in the creative intensity of life began that profoundly shaped the

outcome of it. In this sense the Ice Age cycles are positive cycles for mankind.

Evidence suggests that the very same cause that gave us the difficult ice age climates, also gave us increased cognitive ability along the way.

see: [Mankind: Children of the Universe](#) - cosmic rays and mental development.

Yes, we have achieved wonders in our development.

Mankind came into the Holocene Epoch with a tiny 5-million world-population (variously estimated between 1-10 million) after its more-than two million year history. But it emerged equipped with a richly developed genius, resulting from countless progressive discoveries in its past - discoveries of the principles of life and the Universe. Mankind came into the Holocene with a qualitative dimension that profoundly sets the human species apart from any other species of life ever created. Our long-developed potential that we brought into the Holocene warm climate set the stage for an astonishing explosion of human life that brings us at the current stage to the threshold of creating the technological capabilities and resources to live and prosper in any Ice Age World without any interruption and any curtailment for the lack of food, energy, and other resources.

Since our food resources are keyed to the current warm-climate agriculture, a new form of agriculture needs to be created that is climate-independent, such as indoor agriculture - industrial in nature, largely automated with advanced biotic processes, enriched atmospheres, nutrients, and lightening - that supersede 'primitive' outdoor agriculture methods manifold in their productive yields. An artificially enriched and protected food resource appears to be the coming necessity for human survival. It is becoming desirable even now to assure biological safety and pollution-free operation of the food production process.

Historically, we are the 'youngest' species of mankind, between 100,000 to 200,000 years of age as a species. In the Holocene time-span of 10,000 years we have built ourselves up into a species of over 6 billion people, going on to 10 billion. This means that we now face the challenge to survive with a 10 billion world population in a world in which agriculture becomes historically decimated by the return of the cold Ice Age climate. If we fail to prepare our world to meet this challenge, mankind will die back to the same few million that had survived through the last Ice Age epoch which represents an upper limit that the Earth can support by itself with its meager natural resources. This means that few of mankind might remain alive in the tropics.

Thus, once again, we, as human beings, face the challenge to utilize our human resources to create what the Earth cannot, and does not, provide on its own. We need to drive the creative and productive process now as never before. We need to create technological infrastructures on a worldwide scale that will enable all nations and people to protect our common food resources with processes that the ice-age cannot touch. Such facilities, like indoor agriculture, were unimaginable in prior ages, but they are achievable now. They are achievable if we don't decimate the greatest resource we have that developed over two million years, which is yourself, the human being with productive and creative power second to none, a power that is inherent in the human population that stands at the pinnacle of a remarkable development of life going back more than a billion years on this planet.

This history of development - a profound development of life - defines us. It made us into what we are. And it defines the potential for our future. This future begins now. It unfolds as we shape it, and in the way we shape it.

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