

### Weighing the Ice Age Precursor correctly determines if we will live



[Statue of Themis](#)

**In her right hand is the sword that separates reality from mythology**

The fate of civilization, if not all of humanity as a whole, hangs in the balance where we weigh the ice age precursors.

If we weigh the evidence correctly and act on it, we will live. If we weigh it incorrectly, our resulting action or inaction will reflect this failure and the extinction of mankind may ensue.

On this scale justice is not determined by a higher power, but by ourselves. The sword that separates fact from fiction needs to be in our hand for us to be just with ourselves.

#### Reality vs myths

The dividing line here is not a line drawn between differing opinions about certain types of evidence. The line is drawn on a much more fundamental level. Is the line that separates two opposite concepts of cosmology, only one of which can be real.

Below the dividing line the Universe is regarded as fundamentally mechanistic, entropic, unintelligent, and accidental in origin. This is the realm that is currently 'occupied' by the Big Bang cosmology where the only force that is recognized to exist in the Universe, is gravity - the attracting force of physical masses to each other that thereby accumulated into giant masses (like big banks that eat up little banks) - and where the electric force that is 36 orders of magnitude stronger and farther reaching is deemed not to apply. In the mythological concept where 99.999% of the creative force of the universe is banned from consideration the landscape is littered with myth, such as black holes, dark matter, dark energy, solar fusion furnaces, the cosmic attractor, density waves, and so on. In this mechanistic sphere of perception the ice age precursors are interpreted necessarily on the platform of the ruling mythologies that typically involve apocalyptic concepts with consequence that by acceptance result in apocalyptic outcomes.

Above the dividing line that separates myths from reality, the electric force is included in cosmic

considerations. In this advanced realm of perception the universe is not regarded as entropic, such as solar furnaces consuming their sun, but is seen as constructively creative and expanding, being actively powered and universally interconnected in an intelligent design. Living processes are not mechanistic, except in the most minuscule sense. They are intelligent, creative, and essentially electrically organized, as is the universe as a whole. When the ice age precursors are seen as the natural result of electric forces, a much more intelligent and scientifically correct recognition results, which when followed up, can prevent apocalyptic outcomes.

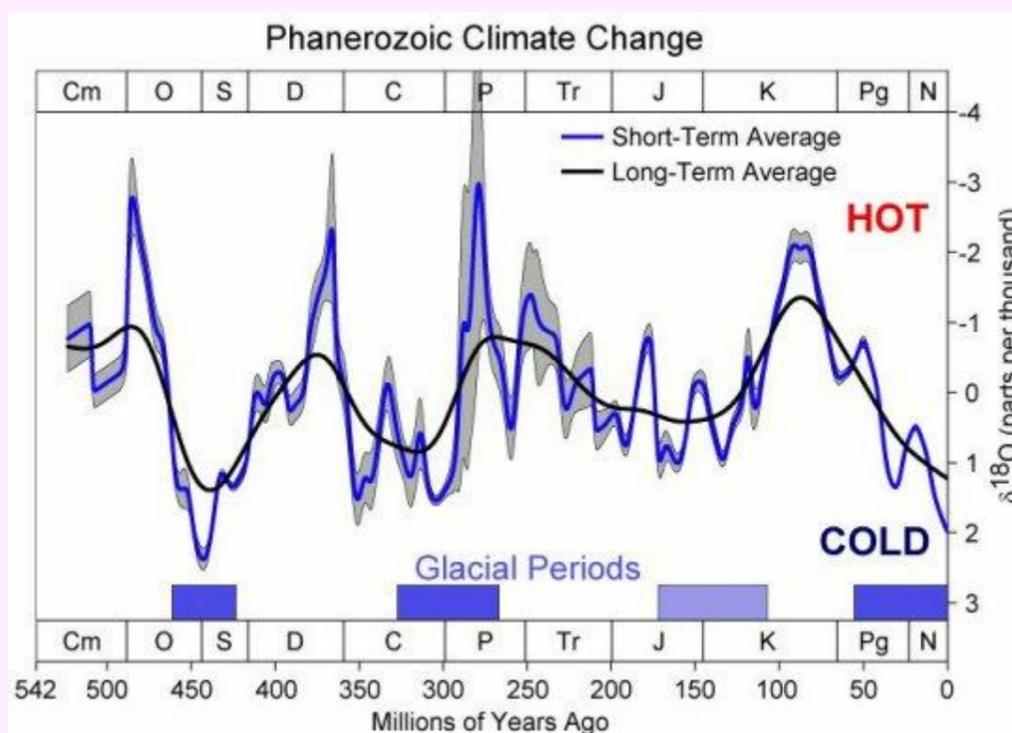
While the mythological realm below the line where the Big Bang is king and rules nearly all relevant aspects of science, a breakout from this box has begun. Leading edge discoveries in plasma physics, such as are being pioneered by researchers at the Los Alamos National Laboratory, are setting the stage for the understanding of the Universe with in-the-lab physical verification by experimentation of principle that the early pioneers in plasma physics, such as the Nobel laureate Hannes Alfvén had only theoretically conceptualized. Now, with modern instrumentation we can see their concepts verified in countless ways, visually in the universe, and physically in the laboratory. Now, with this shift in progress, from myth to reality we can interpret the ice age precursors in a much more intelligent manner, including some that were not recognized before to exist.

See: [The Electric Galaxy at LOS ALAMOS NATIONAL LABORATORY](#)

## Precursor note 1 - reflected in long climate cycles

The scientific method of reading the evidence begins with shifting the weight from myths to reality. But what are the myths, and what are the realities?

The historic long-term climate cycles are real values based on oxygen-18 measurements. Perhaps this is the best place to start. Countless myths have been spun around the historic climate cycles.



[see: Geologic Temperature Record](#)

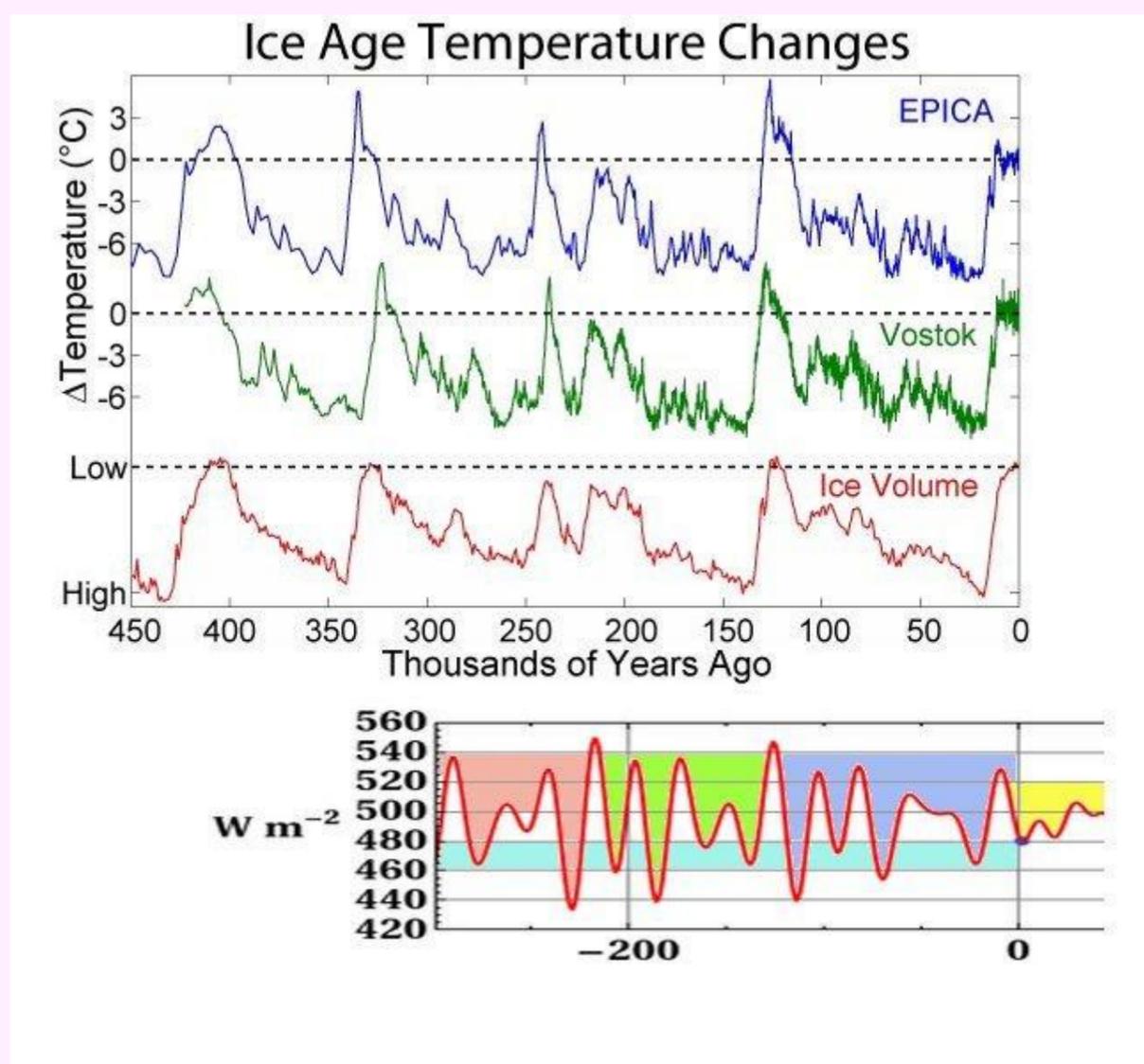
The science for exploring the climate cycles has produced historic temperature 'measurements' that can be broken down into two superimposed cycles of 62 and 144 million years each, which, in their combined low values, coincide with known historic glaciation periods. These are known historic facts.

The measurements tell us that we are presently at a stage where once again both of the long cycles are simultaneously at or near historic minimum values of a magnitude that occurred only once (450 million years ago) in the timeframe that we have measurements for. We can regard this recurring coincidence as a long-term precursor for ice age condition occurring on our planet. In geologic history the great Ice Age of 450

million years ago caused the [Ordovician-Silurian extinction event](#) that is dated to a 5 million year time frame ending at 445 million years ago. The resulting Ice Age period caused the extinction of 57% of all marine genera and 27% of all marine families. (note: The oceans were the only place where life existed at the time. It takes an enormous cooling of the Earth to cause the oceans to cool to such an extent that the great mass-extinction occurred that 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 became extinct.

These are the conditions that the scientifically measured historic temperature trends are taking us back to. The recorded trends don't make much sense as mechanistic trends, but appear quite natural as electric oscillation trends.

## Precursor note 2 - reflected in the most recent glaciation cycles and the solar exposure cycles



see: [Ice Age](#)

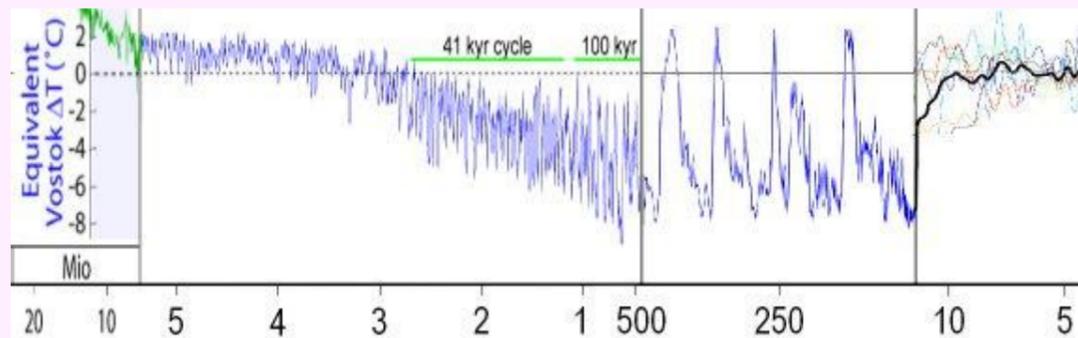
Both, the measured ice core historic data and the computed solar exposure cycles tell us that we are at the end of the current interglacial period of the 100,000 year ice age cycles that we have evidence for, both from Antarctica and from the Greenland ice sheet.

The solar exposure cycle (the Milankovitch cycle) shown above, is the mathematically computed value for the Earth's exposure to the Sun (energy received per square meter at 65 degree northern latitude where the big landmasses are located, and where the major food production of the world is happening). The exposure cycles are determined by changes in the Earth orbit around the Sun (eccentricity, precession, and obliquity). The combined value of the computed cycles is presently at a lower point than it had been during most of the last glaciation period. On only three occasions during the last 150,000 years was the computed value lower than it is today.

We can add the currently extremely low value to the list of the precursors for the transition zone where

interacting climate patterns are beginning to respond to changing conditions.

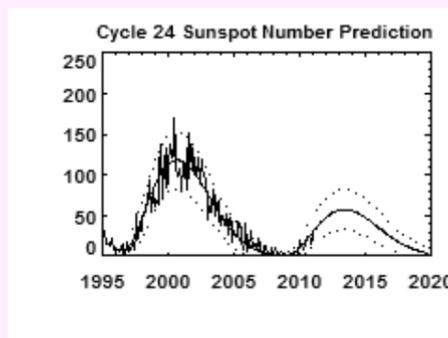
However, the mechanistic cycles don't quite match the observed cycles in the ice core samples. In some cases the observed cycles precede the computed cycle, which suggests that that larger overriding cycles is expressed in the real world, which may be the primary determining factor of the 100,000 year cycles. Also the mechanistic cycles don't account for the sudden change from the 41 kyr ice age cycles to 100 kyr ice age cycles around 1 million years ago towards the present.



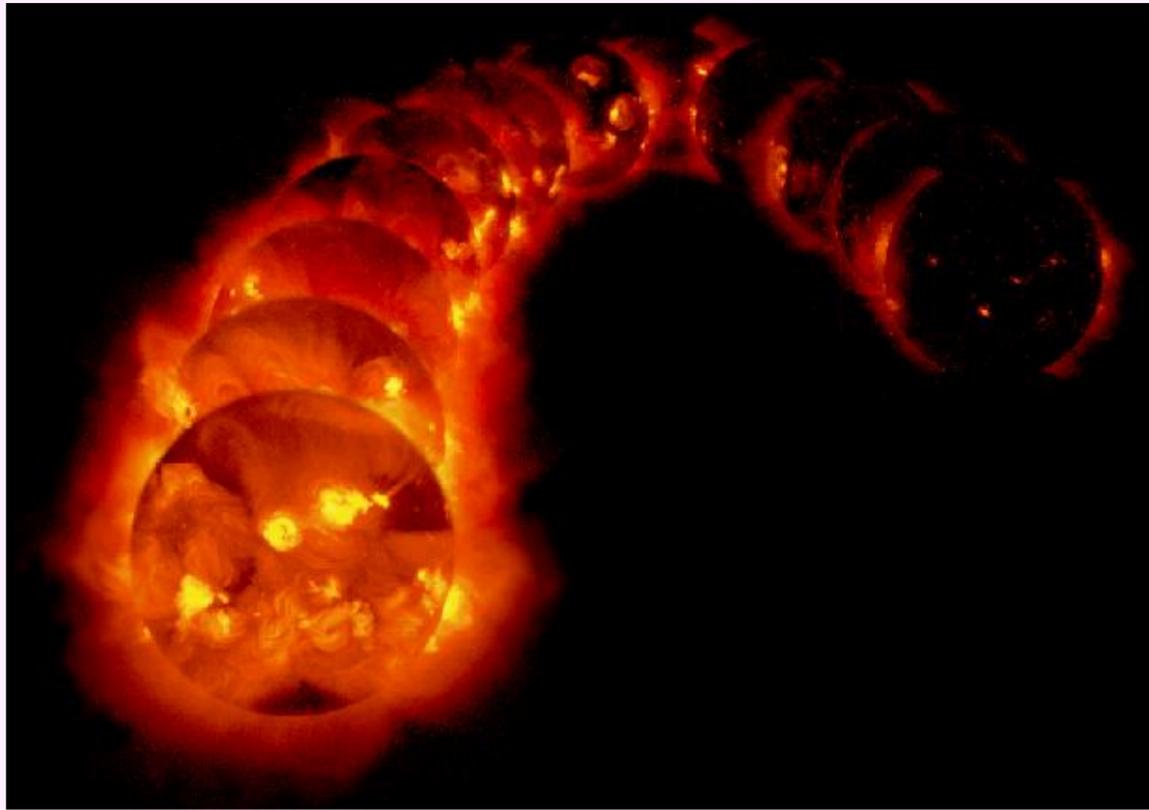
see: [paleoclimatology](#) (note the expanded time frames)

Purely mechanistic cycles cannot account for this phase change, but in the electrically powered universe, long-term changes in electric density cycles are normal.

### Precursor note 3 - reduced sunspot cycles



The sunspot cycles measure the intensity of the Sun's activity. While the Sun's visible light-output, and experienced heat-output, remain constant within a fraction of a percent during our Sun's 11-year activity cycle, the Sun's energy output at the high-end of the energy spectrum varies dramatically during the solar activity cycle by typically a factor of 20 expressed in the x-ray portion of the spectrum. This strong cyclical variation is also expressed in the number of sunspots that the high-energy conditions produce. Both, the sunspot numbers and the x-ray 'brightness' tell us the same story, namely that our sun is a highly variable star in terms of its top-level energy output.

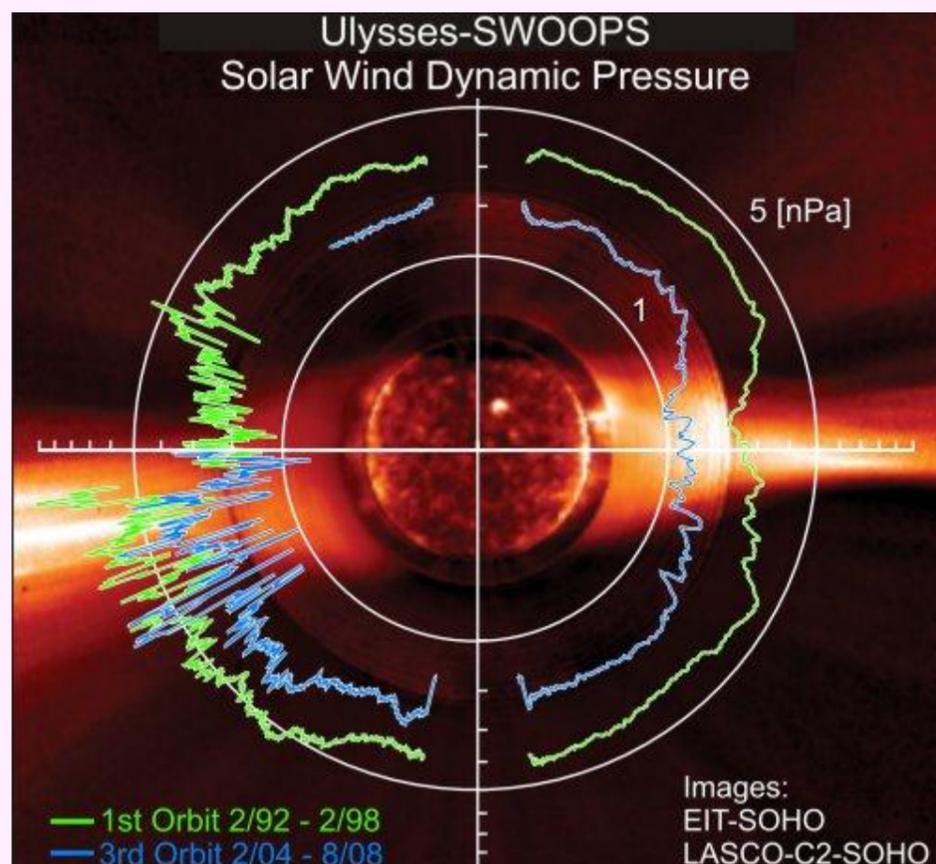


NASA - the Sun in x-ray imaging

The recent trend of the Sun's top-level energy output has been that the 11-year activity cycles are getting weaker. Since the Sun's output is externally powered, the reduction of the solar activity cycles evidently reflects an external trend of electric intensity variations that is located in the solar system itself and the electric energy flowing into it. This downward trend is measurable, and is expressed in the dynamics in the solar heliosphere.

#### Precursor note 4 - the heliosphere is 'collapsing.'

The density of the solar heliosphere, and its effect in attenuating the incoming cosmic-ray flux density, are determined to a large degree by the solar wind density, speed, and temperature. NASA discovered that these factors have all become weaker during the last 50 years since the relevant records have been kept. Especially the solar wind density has been reduced, which had been noted by NASA's ULYSSES mission (now discontinued) that had orbited the Sun in a polar orbit. NASA reported that the 'size' of the heliosphere (density, effect, etc.) has shrunk by 20% and that the high-energy electron cosmic-ray density has increased by 20%.



see: [Solar Wind hits 50-year low.- credit: NASA](#)

Since the cause for this trend is external to the solar system, we have no way of knowing if the trend will reverse or continue the current decline. We can only look at the presently occurring effects of increased cloudiness that is caused by the greater cosmic-ray density. The increased cloudiness is known to cause colder climate conditions, and also to reduce the greenhouse effect as increased cloud formation reduces the atmospheric water vapor that is up to 97% the causative factor of the greenhouse effect that moderates the Earth's climate. We are presently seeing both effects, colder climate in general, and larger temperature swings between sunny and cloudy days. Both effects are precursors for effects to come with consequences beyond imagination if the trend does not reverse and humanity fails to prepare itself for the result when the trend trails out into a full-blown ice age.

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## Precursor note 5 - The progressing cooling trend.

The Sun, being just a larger light bulb will grow brighter and dimmer with the changing electricity supply. Scientists at the Solar Terrestrial Institute in Irkutsk, Siberia, reported a sharp downward trend in annual averaged temperatures beginning 1998, measured on the ground. Their findings were that the trend would continue right through to the mid-2020s, according to the extend of their ability to forecast. The average annual air temperature in Irkutsk, which correlates well with the average annual global temperature of the surface air, reached its maximum of +2.3°C in 1997, and then began to drop to +1.2°C in 1998, to +0.7°C in 1999, and to +0.4°C in 2000. This trend is still continuing. Colder winters have increasingly gripped the world ever since with no reversal in sight. This too, would qualify as a precursor. (see: [The Ice Age Is Coming](#))

If our sun was a self-powered nuclear furnace, the rapid fluctuations and extended trends that we have seen would be impossible, but with the Sun being externally powered, the fluctuations are totally natural, especially if one considers that the area in space where our solar system is located is extremely thinly populated.

Consider that the closet star near the Earth is Alpha Centauri, located 4.3 light years distant, with nothing but space in between. It would take a cube of space 13 light-years wide to locate half a dozen stars within it. The same space in the star cluster Omega Centauri (located some 17,000 light-years from Earth) would contains not 6 but more than 50,000 stars. The Omega Centauri star cluster glitters at its core with the combined light of 2 million stars of the 10 million stars that the cluster contains.

See the dense [star cluster Omega Centauri](#)

Large power fluctuations wouldn't occur in a star cluster of such an immense density, but for us at the Earth, in our isolated location within the galaxy, large power fluctuations are a natural aspect in a landscape of shifting Birkeland currents. Some lead to ice age cycles. The resulting consequences are something that we simply have to learn to live with.

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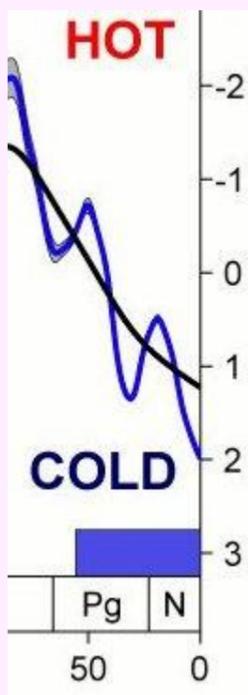
## Precursor note 6 - Positive feedback trends

In reading the ice age precursors the built-in feedback effect of some of the contributing elements needs to be considered. For example: When increased cosmic radiation increases the cloud formation on the Earth. The white shine of clouds reflects a portion of the incoming solar radiation back into space, causing a colder climate. The cloud formation also decreases the water-vapor density in the atmosphere, which reduces the greenhouse effect that is up to 97% caused by water vapor. With the greenhouse effect reduced, we'll get colder winters (and also a few hotter sunny days). With the resulting increased cooling, we'll have less water vapor produced, which increases the cooling effect further. As the colder climates lead to increased snowfall, the resulting white landscape reflects still more of the incoming solar energy back into space,

cooling the Earth evermore.

The point is that these positive feedback effects cause the transition to be self-accelerated. In other words we need to react to the earliest warning signs. If we wait until the climate system is hit with big changes, it will likely be too late, for then it may flip rapidly from interglacial to glacial conditions with no time remaining to build protective infrastructures for agriculture. Once the climate flips, if the world hasn't been prepared for it, civilization ends and much of humanity with it.

## Precursor 7 - Dynamic trends

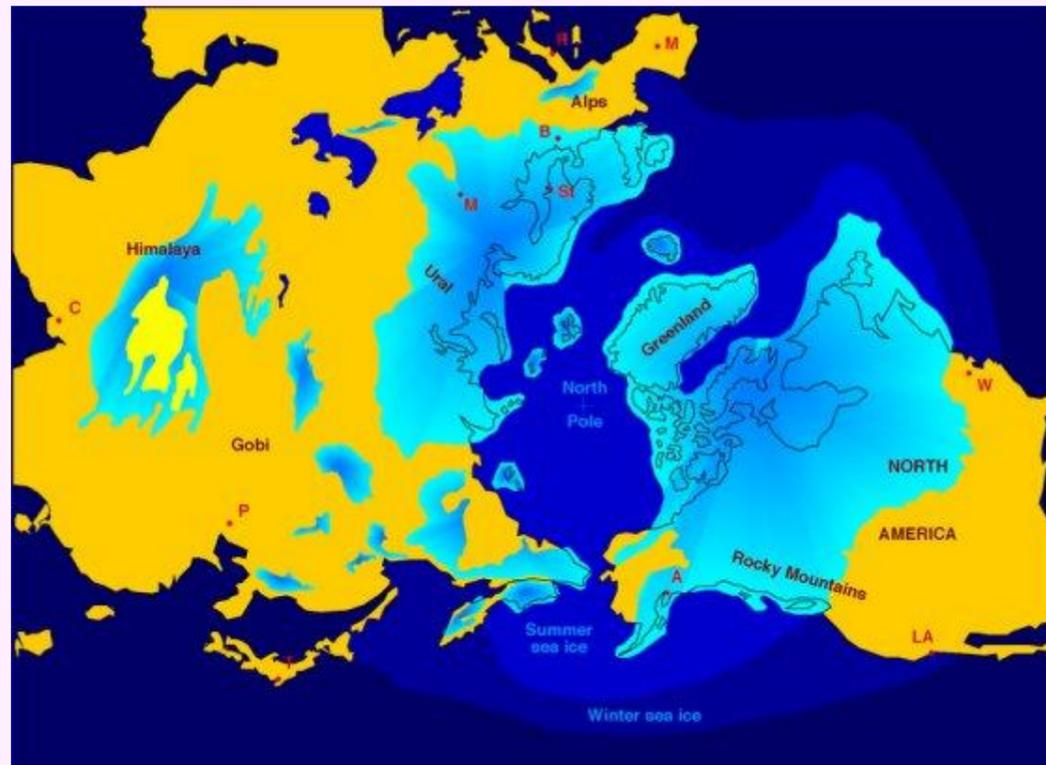


Dynamic trends are often overlooked, yet they reflect powerfully onto the present.

Consider the big dip around 35 million years ago (35 ma). That's roughly when Antarctica froze over. It thaws back out around 25 ma and froze back up at 15 ma. This put the last high point of the blue curve at around 20 ma. With a full cycle being 62 million years long, a half cycle then covers 31 million years. From the extreme high point to the extreme low point, therefore covers a stretch of 31 million years. Since the last high point was 20 million years ago, we have 11 million years remaining of the low portion, until we reach bottom.

With all of this considered, and no other factors entering the scene, tells us that the current ice age trend is towards increasingly colder and harsher ice age climates for the next 11 million years before a gradual reversal begins. In other words, the coming glaciation cycle will be colder and harsher than the last one, extending farther and deeper, with a potentially harsher transition period.

These are critical factors in evaluating the precursors, because the past cannot be used as a yardstick for determining the extent of the preparations that need to be made.



Hannes Grobe/AWI - [http://en.wikipedia.org/wiki/Ice\\_age](http://en.wikipedia.org/wiki/Ice_age)

## Precursor note 8 - The moral imperative

The imperatives imposed by the returning glaciation cycle require humanity to change its mode of operation,

from a reactive mode to a pre-response more. We need to respond to conditions that have not yet occurred. It will not be possible to react to changes as they occur, because we cannot react fast enough. It may take a hundred years to build the infrastructures needed for indoor agriculture, or to shift the world's agriculture out of the northern regions where much of the world's food is grown, that will become useless for agriculture once the climate begins to flip. The needed response is a moral question of the highest order, for to fail could lead to the extinction of much of mankind. Human beings simply do not survive long without food.

The moral imperative is to prepare the world for the harshest potential transition, and with the greatest haste possible, for no one can predict the exact year when the next glaciation transition begins. Professor Zbigniew Jaworowski is the chairman of the Scientific Council of the Central Laboratory for Radiological Protection in Warsaw, who studied the ice age question for 50 years. He states in his 2003 paper, [The Ice Age Is Coming](#): "Transition periods between cold and warm climate phases are dramatically short: They last for only 50, 20, or even 1 to 2 years, and they appear with virtually no warning." He speaks as a world-renowned atmospheric scientist and mountaineer, who has excavated ice out of 17 glaciers on 6 continents in his 50-year career. His take is that the transition is already 500 years 'overdue.' He suggests "Get out the fur coats."

Also see: [The Coming Ice Age - An Ice Age Renaissance - Cultural Climate Dynamics](#)

It is tempting to assume that the world still has another 500 years or 1000 years remaining of the current interglacial warm climate, but can anyone justify the gamble when the very survival of mankind is at stake? While we would lose everything if we lose this gamble, we would lose nothing by beginning the preparations for an Ice Age Renaissance a thousand years too soon, should this be the case.

See: [2011 - Ice Age Anew & Renaissance](#)

In this context, and form of resistance to starting the needed preparations today should be classified as criminal insanity. For example, the NAWAPA project to divert rivers from Alaska into the southern U.S. deserts and into Mexico - a 50-year project - needs to be so considered, for it would redirect the nation's development resources into a dead-end pursuit (terminated by the ice age transition), while the needed development would remain left undone.

See: [2011 - NAWAPA](#)

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## Precursor note 10 - Stepping away from apocalyptic mythology

One hears much talk about apocalyptic predictions these days that are dangerous in themselves. Apocalyptic mysticism tends to have grave consequences. Cognitive regression tends to become induced when fairy tale concepts are dished up as truth, but which are not understandable, such as for example the Big Bang theory, according to which a giant explosion of nothing created the universe which had no prior existence. It is further deemed that the so-created universe is held together by nothing but gravity (the weakest force of the universe) acting on mass, both of which are deemed so mythical that no one can explain them, though they are deemed the only ruling and creating force in the universe. Even the stars are deemed to be lit up by gravity-induced nuclear fusion - creating a universe that is burning itself out towards a dead-end state as neutron clumps or black holes in space that no one can see. And to make it all appear rational, to support the gravity-only theory of the universe, a few more mythical epicycles have been added to the mix, called dark matter, dark energy, density waves, extinction cycles, and so on.

A grave problem arises whenever the mind is confronted with incomprehensible mysticism and related apocalyptic mysticism for which no solution exists or is possible, a regression sets in towards a more infantile cognitive state that the mind feels is safe - as safe as religious dreaming. In this regressed 'safe' environment a vast array of mythical perceptions 'bloom' that are often intentionally created for the very effect of keeping the mind at infantile state and far from its real potential.

Those are the conditions that mankind grew up with during the last 10,000 years. One of the safe myths is that our planet is blessed with an unyielding constancy in which ice age conditions have no place, or at least not for a thousand years. Thus, when the renowned Professor Zbigniew Jaworowski stands up and suggests that mankind might only have 50 or 100 years left of its nice warm interglacial climate, he is looked at as a crazy man, a deranged crackpot that no one takes seriously. Actually he doesn't say this directly. He quotes other scientists saying this (in [The Ice Age Is Coming](#)), which he evidently accepts as a reasonable estimate. Nevertheless, the response in society is the same, and the response is zero. The subject of the world's climate has been so overloaded with apocalyptic predictions after decades of global warming preaching, that society now responds to the entire subject of climate dynamics with an 'infantile' perception.

The artificially created irrationalism that causes regression to a more infantile cognition is widely evident in the political landscape as well, where empire is hailed for its glitter, thieves are honored for their craftiness in stealing, and the murderers of society are celebrated as heroes. This regression towards a lower state of cognition is very much evident in modern society that is burning its food in automobiles as ethanol, even while it is starving to death in the largest holocaust ever that claims upwards to a 100 million lives each year. The same can also be said about society's shutdown of its productive industries throughout the western world, while it pores its living into the bailout trough to fatten the billionaires. These are infantile reactions, carefully cultivated to serve the goal of empire.

In the same environment of progressing infantilism the lawful cyclical return of the ice age is shrugged off as irrelevant, even though the very existence of mankind hangs in the balance. Nothing affects agriculture more than collapsing climate conditions, including droughts, floods, hurricanes, and whatever a major climate change brings with it. In many ways those changes have already begun. The earth is getting colder in the winter, drier in summer, and unpredictable in between. And here too, the infantile state comes to the 'rescue' again. It is easier to get lost into mythological dreaming - blaming the sun for our calamities, or cosmic rays, or even the galaxy - instead of recognizing that the next ice age transition is already in progress. In an infantile state of cognition it is far simpler to keep on dreaming than building indoor agriculture to protect the food supply, or floating agriculture in the tropics where the ice age cooling cannot reach to, at least not right away.

In cosmology some faint signs are emerging. Pioneers of plasma physics at the Los Alamos National Laboratory have recognized that the universe is not governed by gravity alone, but is electrically organized, by a force that is infinitely greater than gravity and vastly farther reaching, that powers our world with an amazing dynamism that creates planets and world's of life, unfolding with an intelligence for living that grows and adjust itself to the changing complexities of the dynamics of an amazing array of harmonizing creative principles by which the universe exists and develops.

The extinction of species in an ice age environment, as has occurred in countless cases in geologic history does not need to continue. We have the capability as an intelligent species to know with scientific certainty the great changes that will come upon our world and create measures of defense against them before they are needed. No other species of life has the creative intelligence that we have to build our own world in the shape of a bright renaissance when the natural world is collapsing by the nature of the electric processes by which the universe exists.

## The Virgo cosmic-rays mythology

The power of science and technology makes our species anti-entropic, and our culture anti-apocalyptic. The power of science gives us the capacity to know with certainty that the historic mass extinction cycles were NOT caused by the Earth entering periods of extraordinary exposure to extraordinary cosmic ray flux coming from the Virgo Cluster of galaxies located in the direction of the Virgo Constellation. While it is true that the Virgo Cluster is a major contributor of the cosmic-ray flux reaching the Earth, there exists no logical reason for assuming that our solar system in its movement within the galaxy would become periodically super-exposed. Cosmic rays are electrically charged, whereby their flux becomes universally diffused by their interaction with the vast networks of magnetic fields of the electric currents that pervade the galaxy.

See: [The Virgo Supercluster](#)

The stars in our galaxy are vastly isolated from each other, which means that each solar system is as exposed as any other, no matter where it may be located. Consider a scale model for near earth space. Assume that a period (.) on this page represents the Sun. The Earth would be orbiting 1 centimeter distant from it, but too small to be visible on this scale. On the same scale the entire solar system would extend across 80 centimeters, or about 3 feet. The planets would be 9 single dots, each too small to be seen. And the nearest star to our solar system would be over 2 km away (just short of 1.5 miles) and be just another tiny dot (.). Even at the densest part of our galaxy, such as the Omega Centauri star cluster where the star density is 10,000 times greater than near our solar system, the stars are still separated by a trillion kilometers from each other. One could sent an unguided space craft through this 'super-dense' star cluster and the chance of colliding with one of the stars would likely be less than winning a major lottery.

That's how 'empty' interplanetary space is in the galaxy (except for the presence of plasma and its electric currents). There are no obstacles in the galaxy that could hides us from cosmic rays, or by getting away from them would expose us to more.

No real reason exists to assume that there are cosmic-ray 'death zones' that the solar system becomes exposed to by its movement within the galaxy, such as caused by radiation from the Virgo Cluster. To the contrary, the most intense cosmic-ray source that is known exists within our galaxy itself, called Cygnus x3, which some researchers suggest has been instrumental in advancing the evolution of mankind, if not the key element of it.

See: [Cygnus x3 and Human Evolution - the missing link?](#)

The extinction-cycle theory based on cyclical cosmic-ray exposure that is promoted in modern time is pure mythology, conjured up by a perception of the universe in which the universe's electric force is banned from consideration.

While cosmic-ray density is the key factor for the ice age glaciation cycles, the cause for their cyclical variation is an electric phenomena. Changes in the electric density surrounding our solar system causes changes in our Sun's intensity, which in turn affects the strength of the solar heliosphere and its attenuating of the incoming cosmic-ray flux. When strong electric density causes strong solar activity, then the solar heliosphere is strengthened with dense solar winds, which in turn causes a strong blocking of incoming cosmic rays. When the opposite happens and attenuation weakens so that the cosmic-ray flux doubles, then the Earth enters ice age conditions. This is also where a major ice age precursors is located.

The solar activity is currently diminishing, the heliosphere is weakening, the cosmic-ray flux is increasing. The world is getting colder and the greenhouse effect weaker. We have already moved far enough down this road that agricultural losses are getting larger by the year, caused by colder winters, wetter springs, and dryer summers.

The resulting grand concert of agricultural upsets affected by the weakening Sun, is already in progress and is increasing. Increasing with it is the mythological dreaming that prevents mankind from recognizing the reality that is unfolding before its very eyes. Apocalyptic dreaming is dangerous. It prevents the perception of reality. In geologic history only one extinction event (450 million years ago) was related to glaciation, which can hardly be called cyclical. All the other great historic extinction events had different causes that are unique for each occurrence.

See: [Galactic driven terrestrial evolution](#) and [The Origin of the Solar System](#) - solar capture

## The solar earthquake mythology

Another apocalyptic myth abounds, that our sun, in conjunction with the galaxy, is causing the rapid increase in earthquakes that has been observed in many places around the world. But here too, a much simpler cause is evident. The number of earthquakes has increased 14-fold, and up to 70-fold in some areas, since 1999.

This huge increase can hardly be blamed on the Sun as extraordinary solar activity effects, especially with the solar activity diminishing. But something has changed in 1999. In 1998 a high-powered experimentation project was started - the High Frequency Active Auroral Research Project - that utilizes the electric power of the ionosphere to 'rattle' the Earth with electric wave pattern in order to enable subterranean mammography for locating underground military installations. When the project was started the sharp increase in earthquakes began. When the project upgraded in 2007 another sharp increase occurred. When a project is designed to 'rattle' the Earth to locate hidden bunkers, why would one be surprised when earthquakes are triggered as a side-effect? To blame the Sun for this increase, or the galaxy, is mythological and apocalyptic, and blinding to reality..

See: [HAARP abuse of the ionosphere?](#)

## Apocalyptic predictions inducing insanity

The point in all this is that apocalyptic predictions are dangerous for reasons of their tendency to induce insanity. If a problem is forced upon the mind for which no solution is possible, it causes a regression in cognitive reasoning. And worst of all, it categorizes the ice age cycles as apocalyptic, which is definitely not the case. Ice age cycles are not apocalyptic, because we have it in our power to raise the platform of our world to such a high power in physical productivity and creativity, that the recurring ice age, no matter when it will strike, will have no impact on human living. Only when we fail to make preparations for the events we know will come upon us, will the recurring ice age become apocalyptic in its outcome. But then, the Apocalypse would be by choice.

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