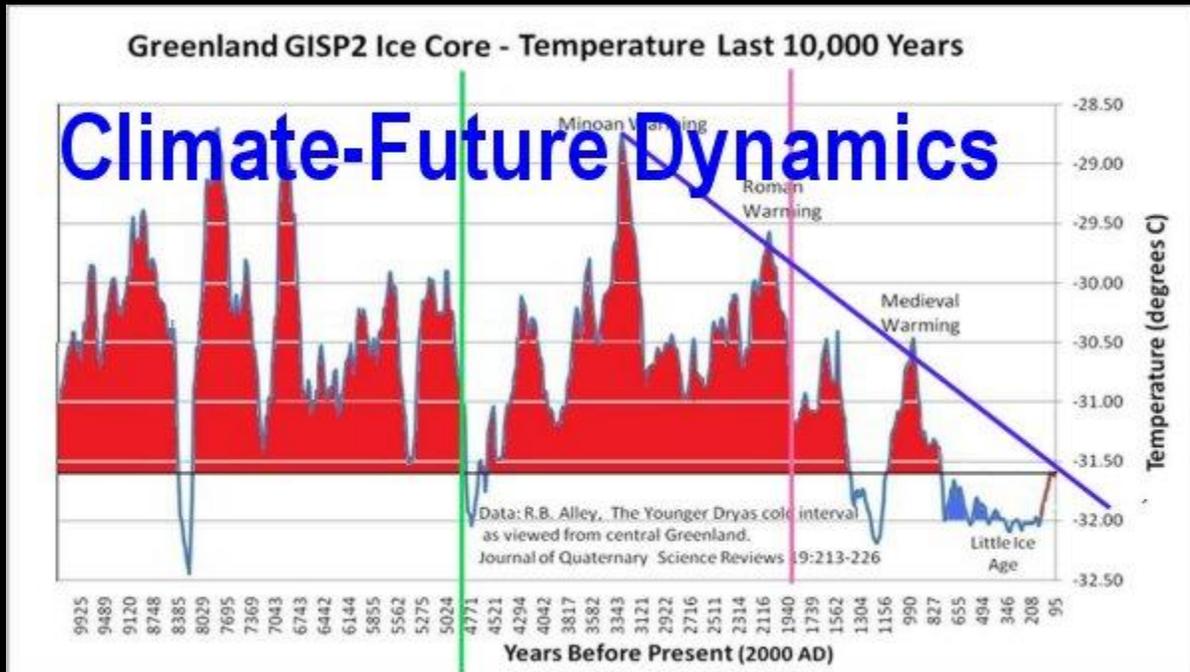


Ice Age Canada

Understanding our climate future



By Rolf A. F. Witzsche – 2013 – Published by Cygni Communications Ltd. Canada

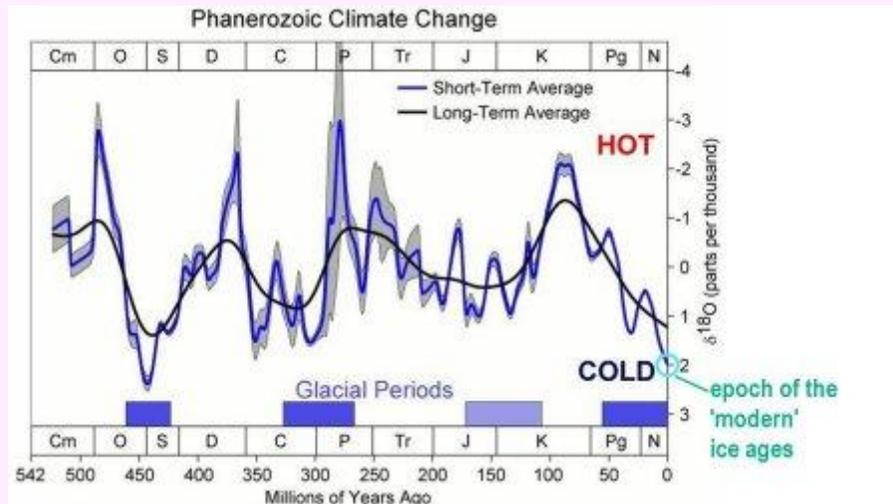
In love with our humanity

The incredible intelligence that we have as human beings that allows us to know what no other form of life on our planet is capable of knowing, may be termed a gift of God. But how do we use this gift?

We know that the climate on earth has gone through several deep ice age periods in the long sweep of its history, and that some of the most extensive mass-extinctions of life on our planet have occurred during these ice ages, such as the Ordovician-Silurian extinction event 450-440 million years ago that killed off 57% of all genera and 60% to 70% of all species. We also know that humanity emerged from the last Ice Age with a world population of a mere 1 to 10 million people, after several million years of human development. We may have come close to suffer the extinction of our

species. Our incredible intelligence may have enabled us to deal with the climate challenge, and thus have saved us from the event.

Today, we stand in the world as a 7 billion world population, with another Ice Age on the horizon that promises to be slightly more severe than the last one as the very-long cycles have not yet bottomed out.



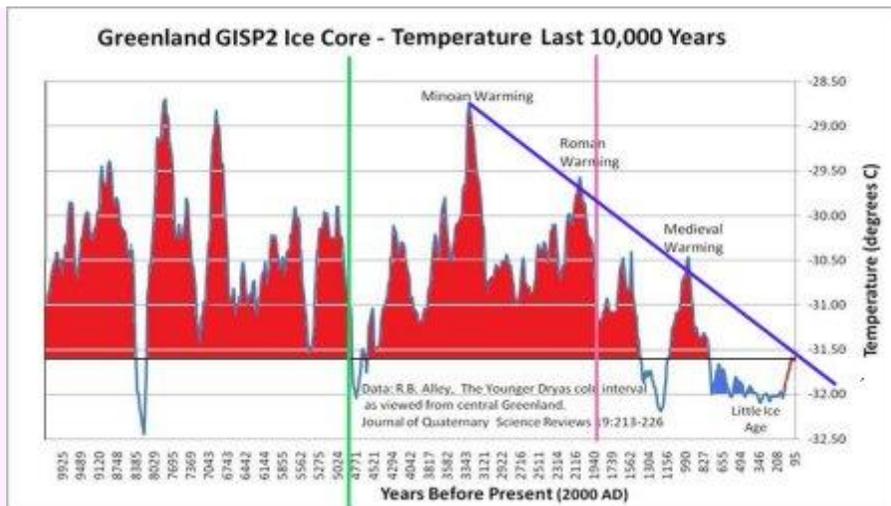
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As the coming Ice Age has immense consequences when humanity is not prepared for it - such as by creating new infrastructures for its food supply - the most critical concern in the world today is know when the event of the start of the next Ice Age will likely begin.

The knowledge, or the lack of it, of the astrophysical timing of the next Ice Age beginning, and the certainty of it, will shape our future, one way or another.

So what about it? Will the next Ice Age begin in 30 years, with the Sun going inactive? Do we have 30 years left?

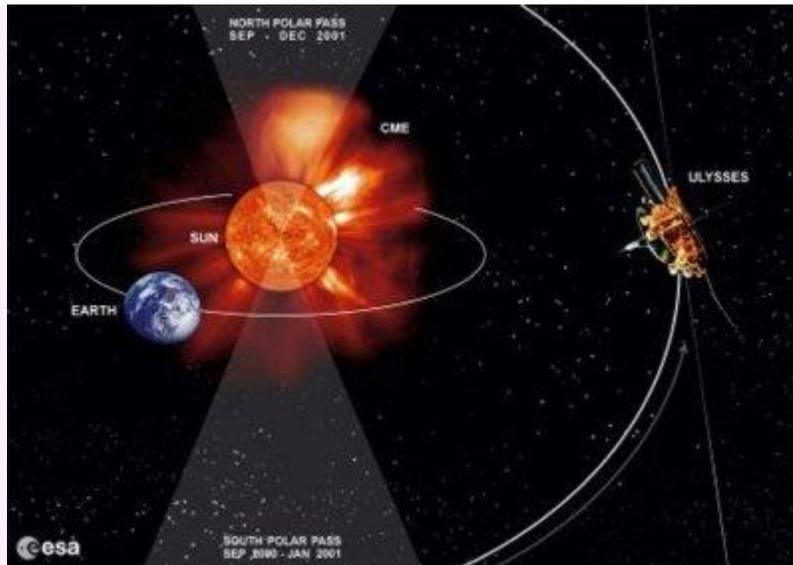
To some degree the ice core records can give us a hint.



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We see here the temperature fluctuations computed from ice core records on Greenland, spanning most of the current interglacial period. We see a gradual cooling happening that began 3,500 years ago and progressed towards two major low points. One coincides with the collapse of the Roman Empire, and the other became the Little Ice Age. We have seen a brief recovery after that, which is in the process of ending.

Since the beginning of the next Ice Age is determined by the weakening electrodynamics in the solar system - and its weakening towards the collapse of the Primer Fields that cause interstellar plasma to be focused around the Sun, which becomes inactive when the fields collapse - our focus must be onto the electrodynamic state of the Solar system, and on the changes that we see there during the brief period in which such measurements have been conducted in solar space.

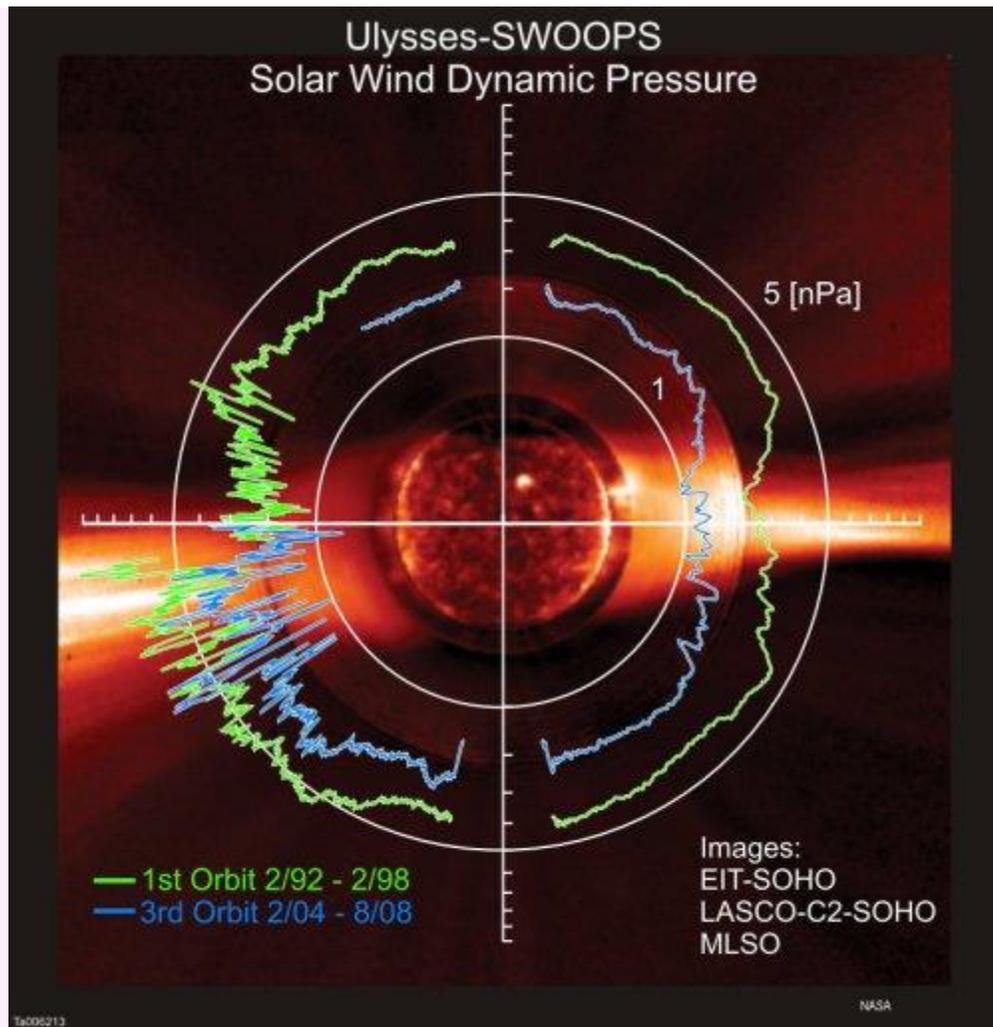


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Considering that the near-earth space measurements are obscured by the close proximity of the Earth to the Sun for such measurements, and are also obscured by the heliospheric current sheet that extends along the ecliptic of the solar system in which the Earth is located, NASA has launched a satellite that orbits not the Earth as a platform for observing the Sun, but orbits the Sun directly. It orbits around the Sun on a wide polar orbit for an undisturbed spectacular view of it.

From this distant vantage point the satellite was able to give us a clearer view of the electric conditions around the Sun. The satellite measurements show that over the 10-year period between its 1st and 3rd orbit, the solar-wind pressure became 30% weaker, and the underlying magnetic field of the Sun became weaker by also 30%.

While the speed of the solar wind had remained constant at 800km/sec, the solar wind's density and temperature had weakened over the 10-year period. Unfortunately our 'eye in the sky' became lost when Ulysses mission was terminated for political objectives



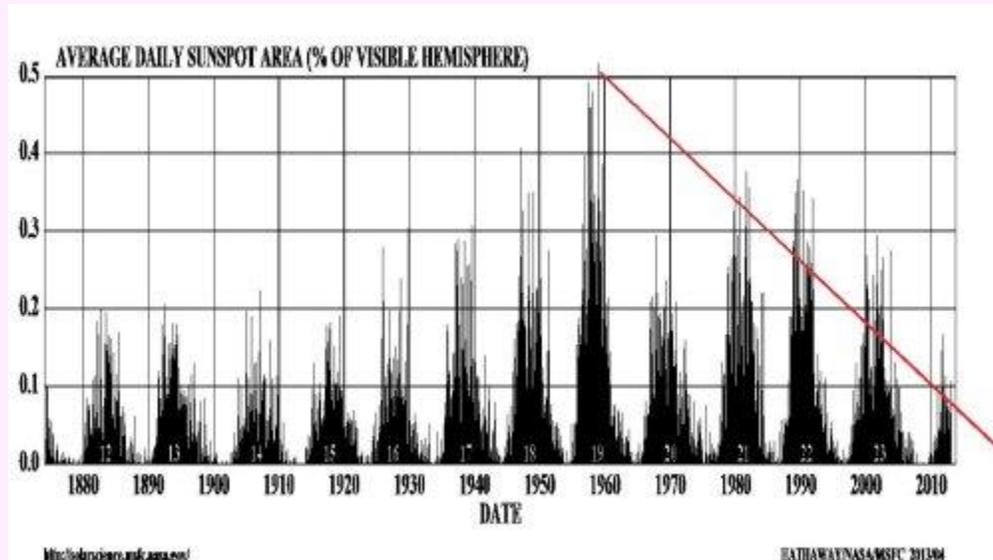
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The 30% weakening of the solar wind in so short a time is a huge change in the solar system's dynamics. It weakens the density of the solar heliosphere and its shielding effect against Galactic Cosmic Ray flux. As one would expect to result from the weaker solar-wind pressure, the Ulysses mission had measured a corresponding 20% increase in cosmic ray flux penetrating the shielding effect of the now weaker heliosphere.

The 30% weakening of the electric dynamics in the solar system in 10 years, is a massive event. If this type of weakening continues, we may witness a weakness unfolding that in 3 or 4 decades will take us to a state of weakness in which the Primer Fields cease to operate that enable our Sun to be powered.

(For more details on the Primer Fields, see the videos: [Ice Age with a dim Sun in 30 years](#) and [Our Electric Fusion Sun](#).)

Since the Ulysses mission has been terminated and the team disbanded, direct measurements are no longer possible, however, the corresponding side-effect that one would expect, continue to happen, and are getting stronger. One part of the evidence is found in the ongoing weakening of the sunspot cycles, which are an aspect of the electric processes in the solar system.

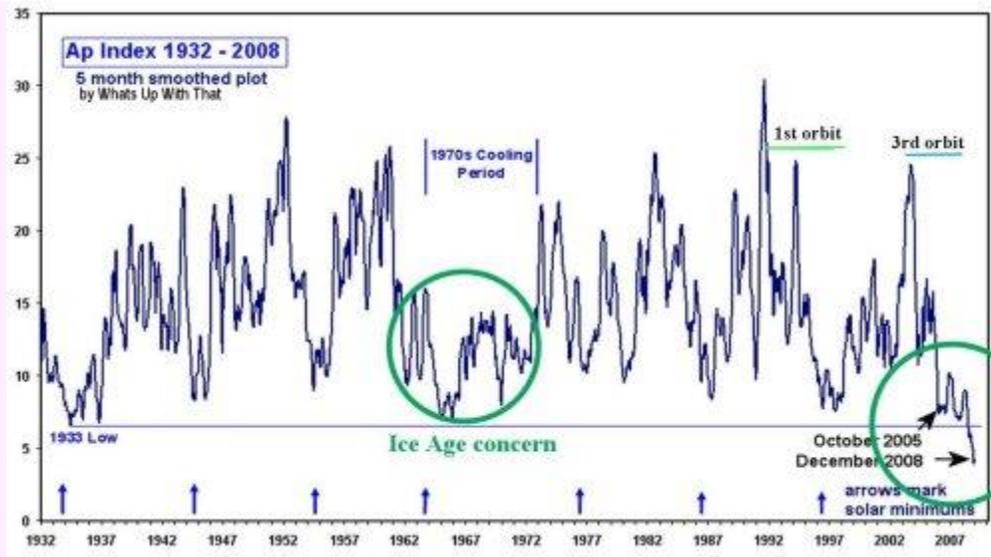


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The sunspot numbers have diminished at roughly the same rate that Ulysses had measured in the weakening of the solar-wind pressure. With the sunspot numbers continuing to diminish, it is safe to say that the dynamic trend the Ulysses had observed, is continuing likewise. In fact, the sunspot numbers are presently diminishing so rapidly that some expect that the next solar activity cycle (cycle 25) may not produce any sunspots at all. Also a weakening of the solar-magnetic effects that are associated with the sunspots, has been observed in 2013.

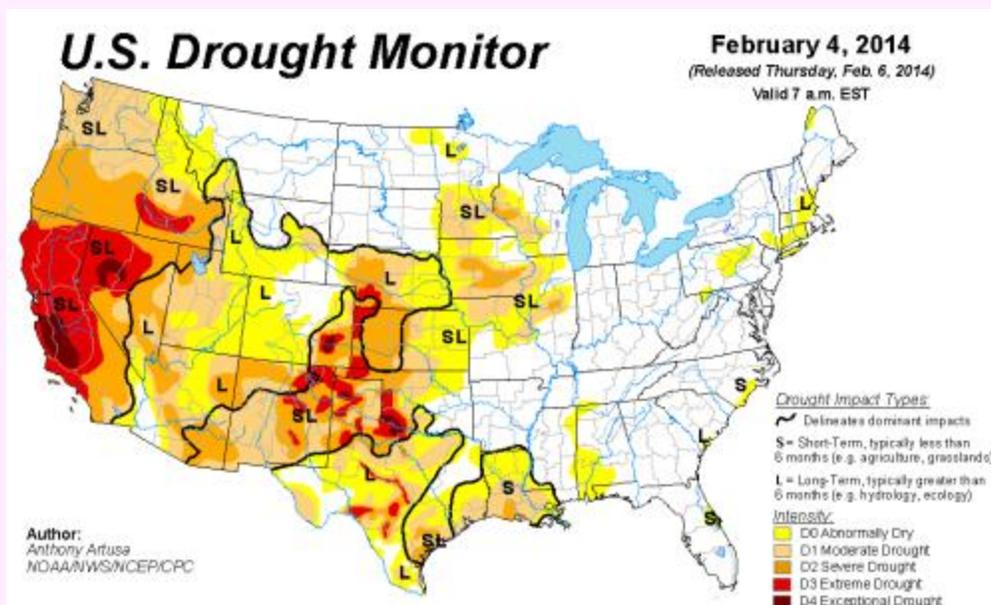
Of course, we don't know how far this weakening has taken us to the cut-off point where the Primer Fields collapse and the Sun becomes inactive. Will the solar system remain active for another 30 to 40 years with the current rate of diminishment happening?

Actually, the precise answer is irrelevant, because if the slightest chance exists that the transition to the next Ice Age occurs in potentially 30 years, then the world development to enable humanity to exist in an Ice Age environment, has to begin now. We simply cannot afford to gamble with the existence of civilization, and much of humanity with it, by assuming that the Ice Age transition will be delayed further, because if we loose the gamble, the consequences promise to be unimaginable.



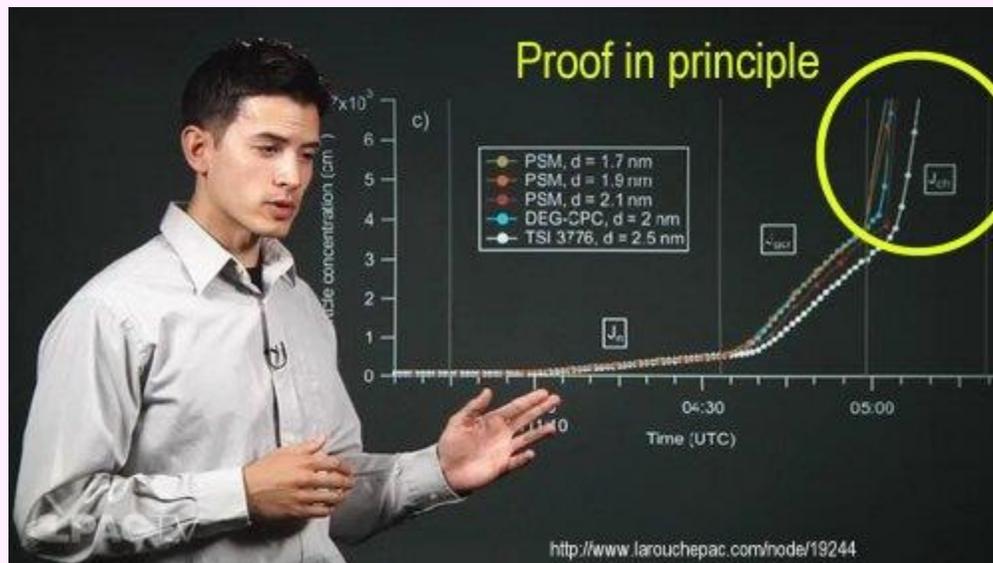
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Another piece of evidence may be found in the Earth's magnetic field getting weaker, so much so that some fear that a magnetic polarity reversal may be near. While the cause for the Earth magnetic field is poorly understood, which is evident by the numerous theories about it, it is nevertheless interesting to note that the long-established background baseline of the Geomagnetic AP index (a composite from numerous measurements around the world) has crossed below its base-line in recent years, to lower values than had been historically observed, dropping even below half the normal background value in some cases.



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A further item of evidence is found in the increasing drought conditions that are experienced in many parts of the world. The increasing drought conditions are a type of consequence that one expects to see for the 20% increase in Galactic Cosmic Ray flux that the Ulysses spacecraft had measured during the timeframe of its mission.

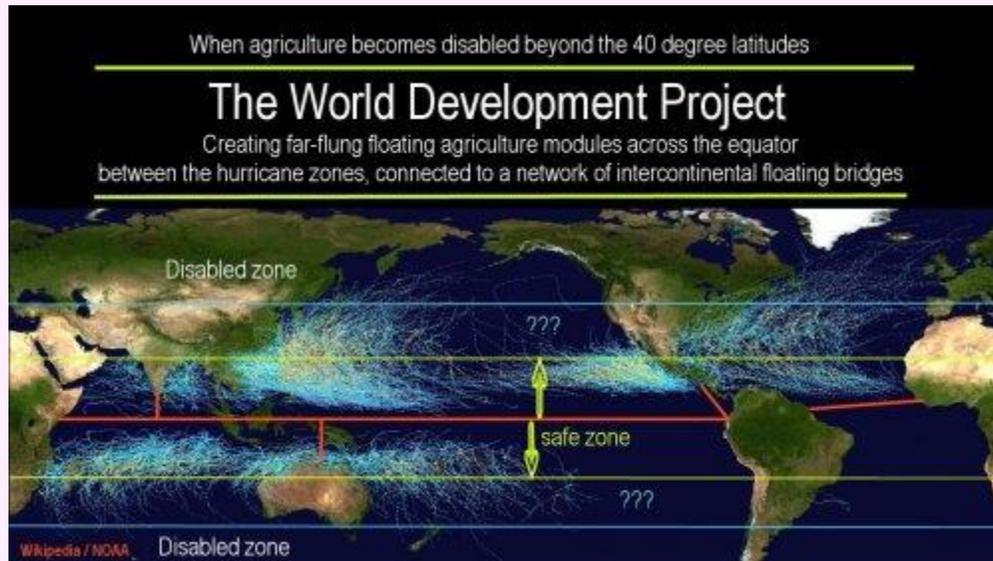


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It has been experimentally demonstrated with the CLOUD project at the CERN labs in Europe (illustrated above) that cosmic-ray flux is a major factor in atmospheric ionization that results in aerosol nucleation, which simply put, intensifies the cloud forming process. Increased cloudiness, by its white surface, reflects more sunlight back into space, which is a loss to the Earth's heat budget. The Earth gets colder thereby. Since the buoyancy of clouds is in part the result of latent heat generated in the cloud forming process, the increased cooling of the clouds at the higher levels of the atmosphere causes the clouds to rain-out more quickly, which shortens the moisture transport distance. Also, the intensified cloud-forming process reduces the water-vapour content of the atmosphere, which reduces the greenhouse effect, giving us hotter sunny days and colder winters.

All of this is affected by the changing electrodynamics in the solar system, of the type that the Ulysses spacecraft had measured. The increasing consequences tell us that the weakening cosmic-electric-energy trend is still continuing, if not accelerating. The increasing drought conditions should therefore be seen as systemic effects rather than as temporary anomalies. In fact they should be seen as fringe events of the ongoing transition towards the start of the next Ice Age, together with all the other pieces of evidence presented here.

Can we say with certainty, then, that the next Ice Age will start in 30 years? The answer has to be no! We can only say that a lot of factors, when seen together as one, point into this direction. We can say however, with a high degree of certainty that very few people will survive on this planet if the world has not been upgraded with new infrastructures for our living by the time the next Ice Age begins. No one can live long without food, and for a 7 billion population, this means large-scale agriculture.



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We can also say with a high degree of certainty that by us placing agriculture afloat onto the tropical seas, interconnected with floating bridges, and serviced by floating cities, we will assure us that our food supply will continue regardless of the glacial conditions that will claim the northern landscape where much of the world's food is presently grown.

This is what it means to let the future determine the presence. Thus, whatever it takes to get the job done, will be done, because we are human beings. Anything less is not an option. This means that whatever is necessary, politically, financially, socially, technologically, scientifically, and so on, will be created for this one task to succeed that cannot be allowed to fail.

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