

The Weakening of Earth's Magnetic Field is the Real Cause Driving Current Ocean Warming

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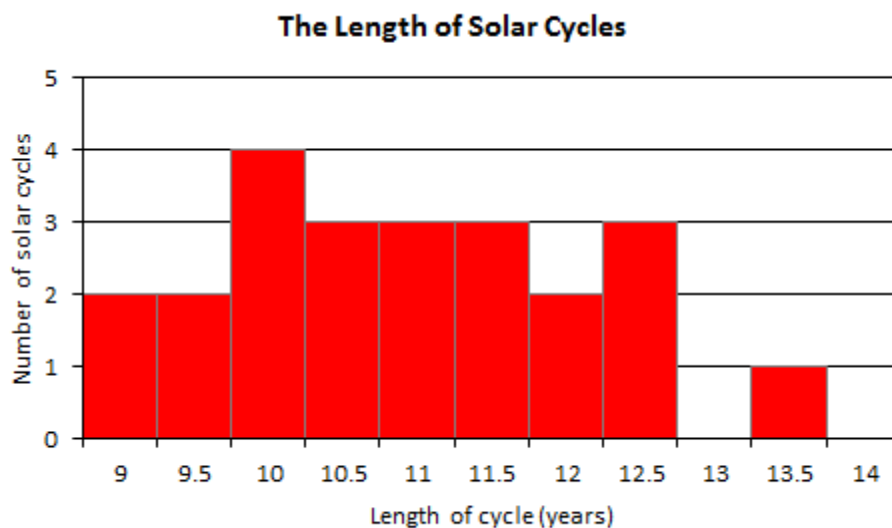
Abstract

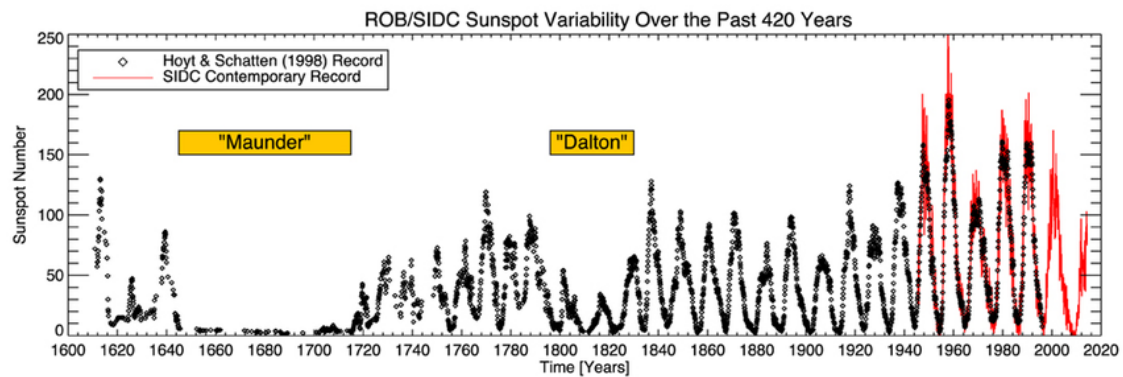
Earlier studies estimated that the Arctic region is warming around twice as fast as the global average. Yet, recent studies have found this figure to be wrong by a huge margin (hugely underestimated). Actually, in the last 45 years, the Arctic region has warmed almost four times faster than the rest of the planet, while the South Pole is warming three times faster than the global rate. On the other hand, since 2016, the Atlantic Ocean especially its northern part, has warmed faster than other ocean basins in the top 100 meters of ocean. Nonetheless, the real reason for the rapid warming of these regions is because of the huge decline in the strength of Earth's magnetic field, and the enormous flow of thermal energy from Earth's interior into the upper layers. Back in 2014, data from Swarm (three specialized satellites) revealed that Earth's magnetic field has weakened 10 times faster than expected. It was astonishing data, totally unexpected and unexplained by the current model that relies on self-generating dynamo. Specifically, Swarm found the biggest decline in the strength of Earth's magnetic field around the Arctic regions, the North Atlantic Ocean and also within the South Atlantic, as the South Atlantic Anomaly (SAA) shows. The decline in the strength of Earth's magnetic field, definitely implies that these regions would receive more solar radiation from above, and higher flow of thermal energy from the interior than when the field was strong and stable. Hence, one can say conclusively that the rapid weakening of Earth's magnetic field was the real cause that made the Polar Regions, and those close to them, warm faster in comparison to other regions of the planet. However, the most fundamental reason why the pseudoscience theory of greenhouse gases is the name of the game - in addition of course to the widespread corruption of our society - is because of the lack of understanding the most important scientific facts about the most important astronomical objects to us, namely our own planet and star. Basically, the origin and mechanism of the magnetic fields of the Earth and the Sun, including the reason for their reversal, are currently mysteries and will remain mysteries forever under gravity-dominated physics.

Introduction

In general, Earth's magnetic field plays an important role in the distribution of solar radiation on the surface of the Earth. Thus, contrary to current understanding, it is not completely accurate that the reason why the polar regions receive less solar radiation than the equator is just because of the low angle of incoming sunlight, the tilt of the Earth's axis and the orbit of our planet around the Sun. Yes, it is a true that the equator will always be closer to the Sun than the poles, but there is also another important reason that has to be added- why the equator receives the greatest amount of solar radiation. The reason has to do with the weak magnetic field of the equatorial region which allows more solar radiation to penetrate. In other words, the distribution of solar radiation is not only determined by the perpendicular angle at which the Sun's rays strike the Earth's surface, but also by the strength of the magnetic field of the particular region. The regions that have strong magnetic fields, like the polar regions, allow less solar radiation to penetrate than the equatorial region that has the weakest magnetic field. However, it is important to note that highly energetic charged particles which interact with Earth's magnetosphere are always guided towards the North and South Poles. They are travelling parallel to the direction of the magnetic field and, since the field is the strongest at the poles, the charged particles are deflected away and in order to reach the equator, they need to possess greater kinetic energy. Anyway,

these charged particles that are guided into the Polar Regions collide with atmospheric constituents and release their energy through the process of ionization, where the majority of their energy is deposited in the extreme lower region of the ionosphere (around 50-80 km in altitude). Basically, the North and South Poles are hit by the highest magnetic radiation (intense solar-cosmic radiation) than areas near the equator. But, since the magnetic field is strong at the poles, some of this radiated energy is diverted, while the rest of it is transported into the interior. Indeed, the strong magnetic field at the poles can be considered as a shield that reduces the amount of intense magnetic radiation reaching the Earth's surface and, at the same time, as gates or receivers that regulate the external power supply for the Earth's interior. However, when Earth's magnetic field enters the fast reversal stage, its strength starts to decrease, especially in the final phase and one of the magnetic poles would become weaker than the other one, eventually vanishing before the final reversal takes place. This situation is identical to the solar magnetic reversal, where one solar magnetic pole is weakened enormously before completely vanishes, while the other one can still hang on for a year or two. Yet, that is not always the case with the reversal process of the solar magnetic field. Sometimes the transition is swift, taking only a few months for the poles to vanish and reappear on opposite ends of the Sun, while in other times the transition takes years, leaving the Sun without magnetic poles for an extended period of time. Even more interesting, sometimes one pole switches before the other, leaving both poles with the same polarity for a while. Nevertheless, the variability of solar cycles in general, and not only the variability of the reversal process of solar magnetic field, is one of the clearest evidence that shows the unrealistic concepts of the Standard Solar Model. Firstly, most people think of the solar cycle as having a fixed length of 11 years, but that is not true at all, as cycles vary considerably in length from as little as 9 years to almost 14 years. Look at the figure below, it is a histogram showing the length of cycles, in bins of 0.5 years, for Cycle 1 (peak in 1761) to Cycle 23 (peak in 2000).





Variations in total sunspot number over the past 400+ years. In this record we see the prevalent ~11-year quasi-periodicity of the solar cycle in addition to possible, longer period, envelopes of activity. Two of the most prevalent downturns in sunspot activity over this epoch were dubbed the “Maunder” and “Dalton” minima, so-called grand minima. Source: WDC-SILSO, Royal Observatory of Belgium, Brussels.

Definitely the Sun is externally powered, and the observational evidences that show this fact are enormous. In fact, most solar phenomena including those that are considered mysteries and puzzles, cannot be understood without taking into consideration the external power supply that the Sun receives on steady basis. In my comprehensive research work about the Sun, which has been under preparation for the last 20 years, I provided huge observational data that are in direct contradiction with the current gaseous model, and at the same time, none of these data are mysteries or puzzles if you take into account the physics reality of the Sun. As a matter of fact, all observational data since the dawn of the space age are self-explanatory.

Anyhow, the variability of solar cycles and the reversal process of the solar magnetic field are linked to the rate of the external energy supply, and it is higher during solar minimum. On the other hand, the evidence that the reversal process is determined by the external energy supply can be seen in the reversal of the polar cap during grand minima. Specifically, the reversal process of the polar cap is also happening during grand minima, in spite of the absent of strong active regions (sunspots). This observational fact is intentionally ignored, although it is clear and direct evidence that the reversal process of the solar magnetic field is not depending entirely on the internal working of the Sun, or the working of the self-sustaining dynamo. So, definitely, the Sun is a variable star, just like all stars of the Cosmos. Without a doubt, the variation in the strength and length of solar cycles are clear evidences of the variation of its external energy supply. Actually, most solar phenomena, including solar eruptions, cannot be truly understood without taking into consideration the factor of the external energy supply that varies on the solar body, with large value between solar minimum and solar maximum. For instance, the latest puzzle, or the so-called Sun's gamma-ray puzzle, can never be resolved without taking into account the factor of the external energy supply. My proposed solar model explains fully the observational data of the Sun's gamma-ray emission that were obtained over the last 2-3 decades by space and land based detecting instruments. However, those overwhelming evidences of an externally powered Sun are decisive proofs that refute the notion of thermonuclear furnace which is supposed to exist at the core of the Sun. In fact, I believe unequivocally, and I can provide the experimental evidence to back-up my unwavering belief, that the failure to reproduce- under laboratory conditions- the primary energy source of the Sun, is due to its gross-misunderstanding. Thermonuclear reaction is a quasi nuclear reaction that can NEVER be self-sustained, no matter how big is the reactor, how high is the temperature or how strong is the magnet. In fact, obtaining a thermonuclear reaction where the

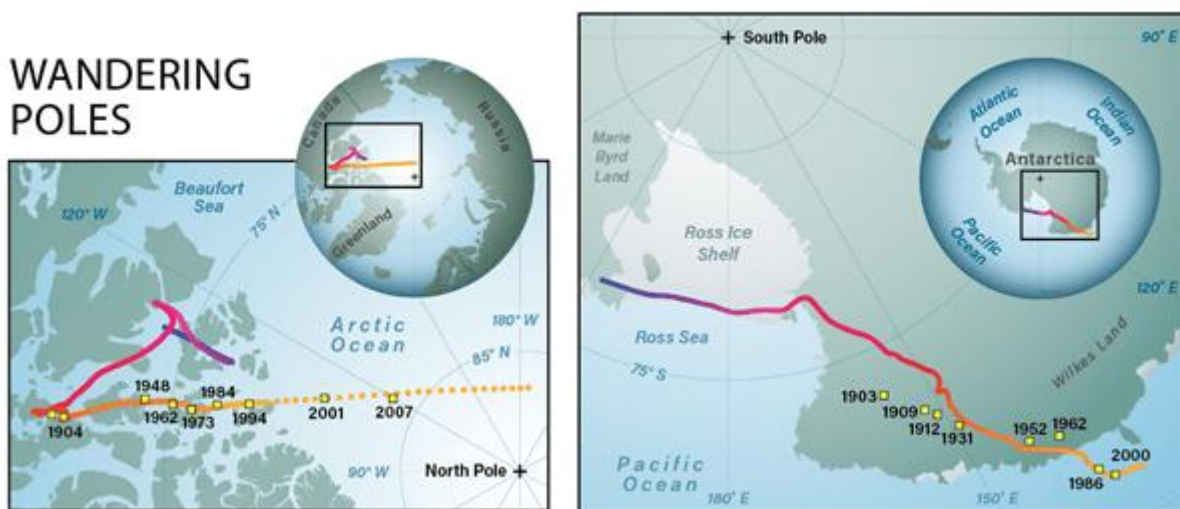
input energy is equal to the output energy (breakeven reaction) is physically impossible, even if the power supply is not switched off, and that applies for both approaches, the magnetic confinement and inertial confinement. Scientifically speaking, any progress of the so-called controlled thermonuclear fusion research should be evaluated based on "TRUE" energy input vs energy output, and ABSOLUTELY NOTHING ELSE. In physical reality, the high-energy nuclear reaction of the Sun happens on its surface, not at its core. The core plays only a supporting role, and it might be hard to believe if I state that I know how to replicate this natural reaction that happens on the surface of our star, using a laboratory-scale device. Furthermore, and most importantly, the device will show enormous output energy compared with the small amount of energy spent for generating this reaction, which is the highest energy reaction in nature. Note that the reaction which happens on the surface of super-dense tiny stars (or so-called neutron stars) is the biggest class of this surface reaction, since it releases the highest amount of energy in a very short period of time.

Nonetheless, the Sun shares many features with the Earth, like the reversal process of its magnetic field, which is identical to the reversal process of Earth's magnetic field in many ways, with the only major difference being the time scale. That, of course, has to do with the rate of the external energy supply that the Sun receives compared with the Earth. Literally, the rate of cosmic radiation that the Sun receives is so enormous and cannot be compared with the rate of cosmic-solar radiation that the entire planets of the solar system receive. This enormous external energy is precisely the reason that makes the Sun reverse its magnetic field in a few years, while the Earth takes a very long period of time. Furthermore, it is important to mention, that the magnetic field of the Earth is not symmetrical, just like in the case of Sun's magnetic field, and that is one of causes why the South Pole of the Earth is cooler than the North Pole. Namely, because the South Pole has stronger magnetic field than the North Pole and as a result, less solar radiation reaches the South Pole. So, basically, the claim that the South Pole is much colder than the North Pole because it is higher, is partially true, but surely this argument cannot fully explain the huge difference in temperature. According to the U.S. Antarctic Program, at South Pole Station, the average monthly summer temperature is (-18) degrees F, and the average winter temperature is (-76) degrees F. These temperatures are much colder than the North Pole's, which averages (-40) degrees F in winter and (32) degrees F - right on the cusp of melting - in summer. Furthermore, the similarities between the Sun and Earth and the role of asymmetric magnetic fields in the variation of the temperature between the two Polar regions of the two astronomical bodies can be seen in the observation of Ulysses spacecraft. Do you know that Ulysses spacecraft has found one pole of the Sun 80,000 degrees or 8 percent cooler than the other one? [Ulysses Spacecraft Flies Over Sun's North Pole \(nasa.gov\)](#) Actually, the asymmetry of Earth's magnetic field can also be seen in other phenomena. For instance, the auroras in the Northern and the Southern Hemispheres show the asymmetry of Earth's magnetic field. In a Nature letter published July 23, 2009, "Norwegian researchers present evidence that the auroras in the northern and the southern hemispheres can be totally asymmetric. These findings contradict the commonly made assumption of aurora being mirror images of each other." Click on the following link: [Asymmetric auroral intensities in the Earth's Northern and Southern hemispheres | Nature](#) Additionally, the asymmetry of Earth's magnetic field plays a role in the rotation pattern of storms in the Southern and Northern Hemispheres. Storms swirl clockwise in the Southern Hemisphere and counterclockwise in the Northern Hemisphere, and this phenomenon is attributed to the so-called Coriolis effect. Yet, institutional physicists do not accept that the Coriolis effect is a consequence of Earth's spinning which is ruled by the magnetic force. In fact, not only in the case of the Earth that spinning is determined by the magnetic field, but also in the case of other planets. Jupiter

is the fastest spinning planet, although it is the biggest one. And that is because it hosts the most powerful magnetic field among the planets of the solar system, cranking out a field almost 20,000 times stronger than Earth. Therefore, in physical reality, the spinning of any physical entity, whether it is an astronomical body or subatomic particle is determined by its internal magnetic field. But, of course, this fact is not recognized and cannot be accepted, since it flies in the face of the Universal theory of gravity-dominated Cosmos, and also violates one of the basic principles of the probability theory of quantum mechanics.

Discussion

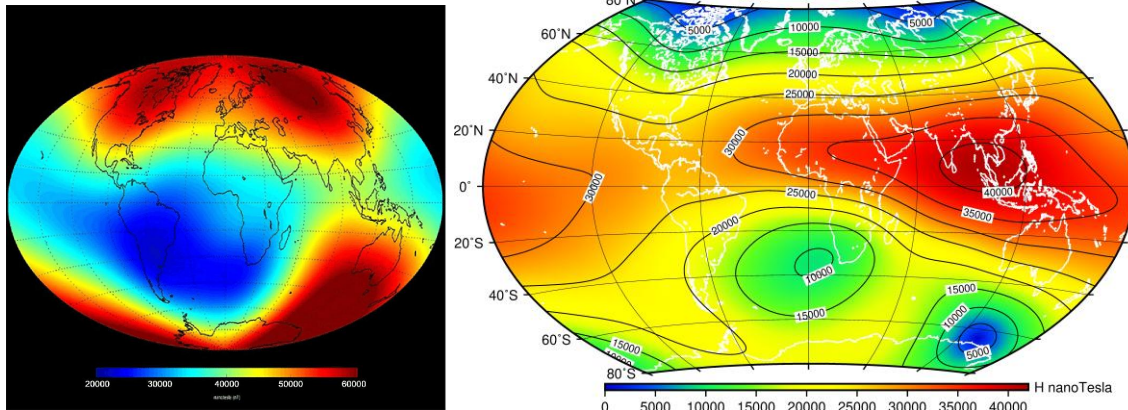
After this short introduction, we have to go back to our main topic, the rapid warming of the Polar Regions and World's Oceans. First of all, factual data showed that over the last 200 years, Earth's magnetic field has been slowly weakening and shifting its North Pole from the Canadian Arctic toward Siberia. And, in recent times, the shift of the north pole has quickened and reached a speed of more than 34 miles (55 Km) per year. This fast shifting came as a complete surprise and totally unexpected to Earth scientists. The situation is identical with regard to the South Pole, although the shifting speed is far less, which means that the south magnetic pole is only slightly weakening. When the magnetic South Pole was first located in 1909 it lay on the Antarctic continent, but it has been travelling 10-15 Km to the northwest each year and by year 2000 lay in the Southern Ocean. In 2015, it lay outside the Antarctic Circle.



"The observed locations of the north (left) and south dip poles have been measured only sporadically. Measurements showing their positions are marked with yellow squares. The modeled locations of the poles from 1590 through 2020 are shown as colored lines and circles progressing from blue (1590) to yellow (2020)"
Astronomy: Roen Kelly, after NOAA

Now, let us analyze briefly the observational data regarding the fast shifting of the north pole over the last 25-30 years, and also see whether the huge decline of the field intensity over the Southern Atlantic are in agreement with the standard model. In 2014, data from Swarm showed that the geomagnetic field intensity has dropped by 60% over a large region in the Southern Atlantic, mainly as a result of the South Atlantic Anomaly (SAA). **The figure on the left shows the South Atlantic anomaly region and**

magnitudes. Dark color shows the intensity of the magnetic field in nanotesla. And, the figure on the right shows map of horizontal intensity at 2020.0



According to a report released at the end of 2019 by the World Magnetic Model (WMM), which is known as WMM2020, SAA grew in size by five percent between 2016-2019. As a side remark, "WMM is a joint project between the National Centers for Environmental Information (NCEI) and the British Geological Survey (BGS). It is utilized by these agencies' respective governments for their navigation, attitude, and heading software. In terms of military applications, the WMM proves indispensable for undersea and aircraft navigation as well as parachute deployment, antenna tracking, iceberg drift determination and many other activities. In the private sector, the model can be found in virtually every smartphone. The commercial airline industry also uses it to rename airport runways so that they accurately reflect their magnetic heading to allow for greater clarity during landing procedures". Anyway, the field intensity of the Southern Atlantic region continued to decline. On 20 October 2020, a joint study published by DTU, National Space Institute, Technical University of Denmark and Institute of Geophysics, Dept. Earth Sciences, ETH Zurich, Switzerland, showed further weakness. Specifically, the authors stated that at low-Earth orbit the South Atlantic weak field anomaly continues to expand and deepen. "This is directly seen in Swarm magnetic measurements and in single-event electronic upsets recorded on board the satellites. Mapping the field intensity down to Earth's surface we find evidence from CHAOS-7 for the development of a secondary intensity minimum near 40 degrees south on the Greenwich meridian. This seems to be linked to the westward movement and evolution of a reversed flux feature at the core-mantle boundary under South Africa. We find localized changes in radial field acceleration averaged over consecutive three-year periods (2014 to 2017 and 2017 to 2020), of amplitude up to 12nT/year in central and western pacific." For more details about the CHAOS model in general, and the research article: [The CHAOS-7 Geomagnetic Field Model and Observed Changes in the South Atlantic Anomaly | Earth, Planets and Space | Full Text \(springeropen.com\)](#), [CHAOS-7 \(spacecenter.dk\)](#), [chaosmagpy · PyPI](#)

These observational data contradict the theory of a self-sustaining dynamo (the standard model), which is considered as one of the cornerstones of geophysics. Namely, the model is supposed to describe the mechanism of how Earth generates and reverses its magnetic field. Prior to 2014, geophysicists and geologists assumed that Earth's magnetic field was weakening about 5 percent per century, but data from Swarm revealed that the field is actually weakening at 5 percent per decade, or 10 times faster than expected, which means the time for the full reversal of the field will be orders of magnitude shorter than what was previously predicted by the Earth scientists. In fact, this rate of change was considered

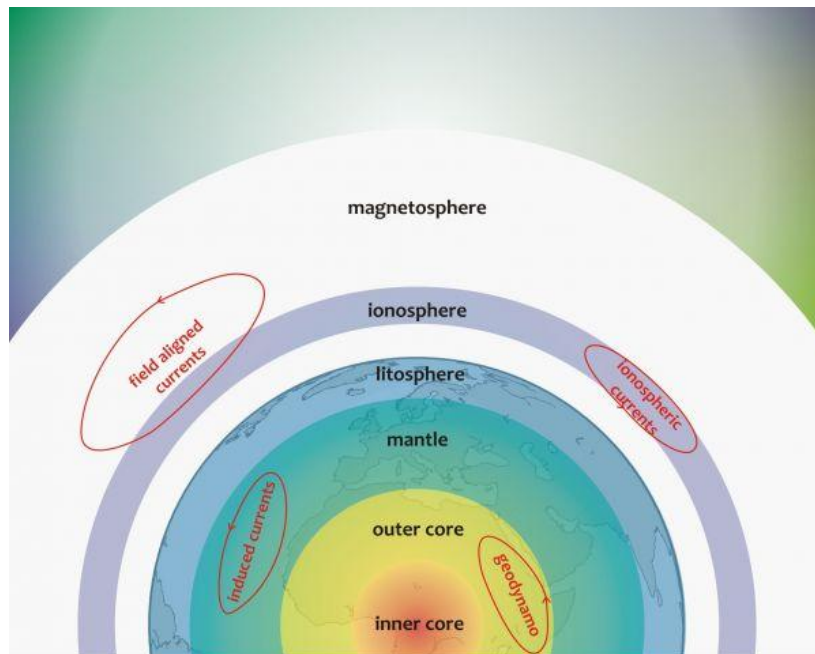
impossible due to the counter-EMF principle which is one of the main principles of the self-sustaining dynamo model. Specifically, the model assumes that a counter-EMF and a counter electric current are always generated at the liquid core/solid core boundary in order to resist any rapid field change. Yet, huge observational data clearly contradict this hypothetical notion. Definitely the observed sudden changes to the geomagnetic field intensity and configuration can only be understood if large plumes of liquid moving rapidly from the outer core into the mantle are taken into consideration. In fact, this hypothesis of fast-large plumes is the only cause that constitutes scientific rationality, and provides the correct explanation to the observed change of the northern and southern magnetic drift velocities and the decline in the intensity of magnetic field in general. Namely, there should be large plumes under the regions that are close to the South and North Poles, like for instance, the Greenland and Southern Ocean. In fact, these large plumes are needed to explain not only the drift velocity of the poles, especially the drift velocity of the northern pole that suddenly increased by a factor of 10 starting around the mid-1990s, but also to explain the large drop of magnetic field intensities of these regions that were shown in WMM and Swarm satellite data. Moreover, the plumes are needed to explain the massive increase of underwater volcanic eruptions in those areas in recent years.

In any case, my plume hypotheses are in full agreement with observational data, since over the last three decades geomagnetic specialists have found unequivocal evidence that the sudden change is orders of magnitude larger and faster than what the model is predicting. In numerical terms, the geomagnetic field changes were 10,000 times faster and 100,000 times larger in magnitude than allowed by the standard model. Strictly speaking, these rates fly in the face of the boundary generated process of the dynamo theory that supposed to resist the rapid change of the field. In other words, the hypothesis of fast-large plumes is incompatible with the standard model, or rather it contradicts it, because the model is assuming very slow process that takes tens of millions of years, not sudden movement that takes one or two decades, with very large magnitude of mantle plumes (heat flow). Henceforth, and in a pure scientific spirit, geophysicists and geologists should have considered the above data as a decisive verdict on the current dynamo theory. But, of course, the theoretical physics establishment who rule the natural science of matter, cannot afford to discard the dynamo theory, since it is one of the building blocks of not only Earth science, but also solar physics and astrophysics in general.

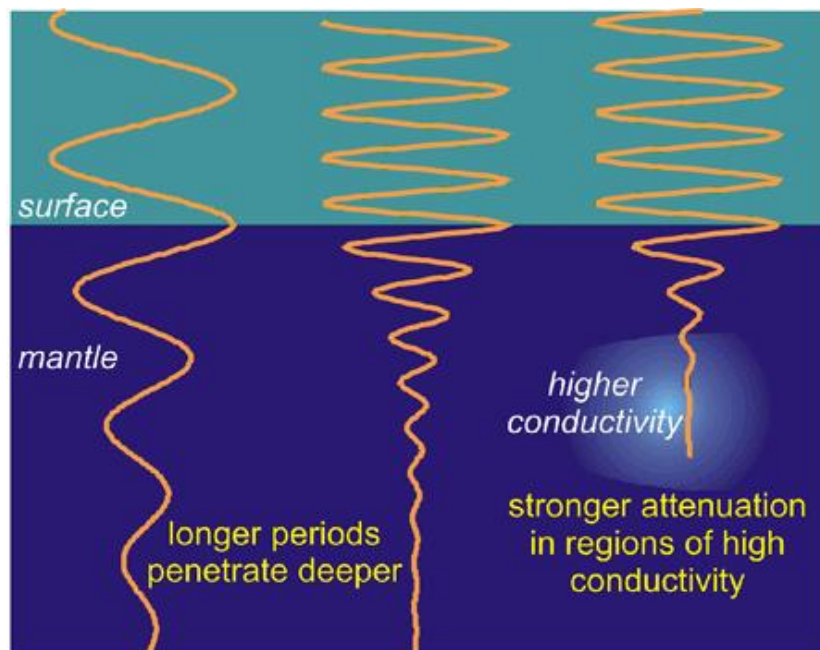
The observational data about the rapid weakening and shifting of Earth's magnetic fields are showing many valuable physics facts about Earth's interior, especially how the magnetic field is functioning and what is causing to reverse from time to time. We know from the geological record that Earth's magnetic field has undergone numerous reversals of polarity, but no real scientific explanation exists that can truly and rationally provide the reason for the reversal, and by the way, the same argument applies to the solar magnetic field. In actual fact, solar physicists and geologists cannot provide even superficial explanation to this important question. In physical reality, however, the reversal of magnetic fields of the two astronomical objects is determined by the rate of external energy supply, and their cores shift the spin direction when the fields reverse their polarities.

Earth's magnetic field is made up of two main parts: internal and external. The *internal part* comes from two sources: the Earth's lithosphere (magnetized rocks forming the crust and the mantle), while the second source- the dominant one – is the liquid outer core. On the other hand, *the external part* comes from the plasma currents flowing in the radiation belts (ionosphere and magnetosphere). As a result of the interactions between the Sun's magnetic field (magnetized plasma flowing from the Sun) and the geomagnetic field, time-varying magnetic fields are generated. These time-varying magnetic fields in the upper layers (magnetosphere and ionosphere) generate time-varying plasma currents in the crust, mantle and the interior of the Earth (*electromagnetically induced fields*). The more intense the time-

varying magnetic fields in the ionosphere and magnetosphere, the higher is the intensity of the induced plasma current and the deeper is the penetration to the layers of the earth.



Different current systems that make up the Earth's magnetic field: Credit: roma2.rm.ingv.it

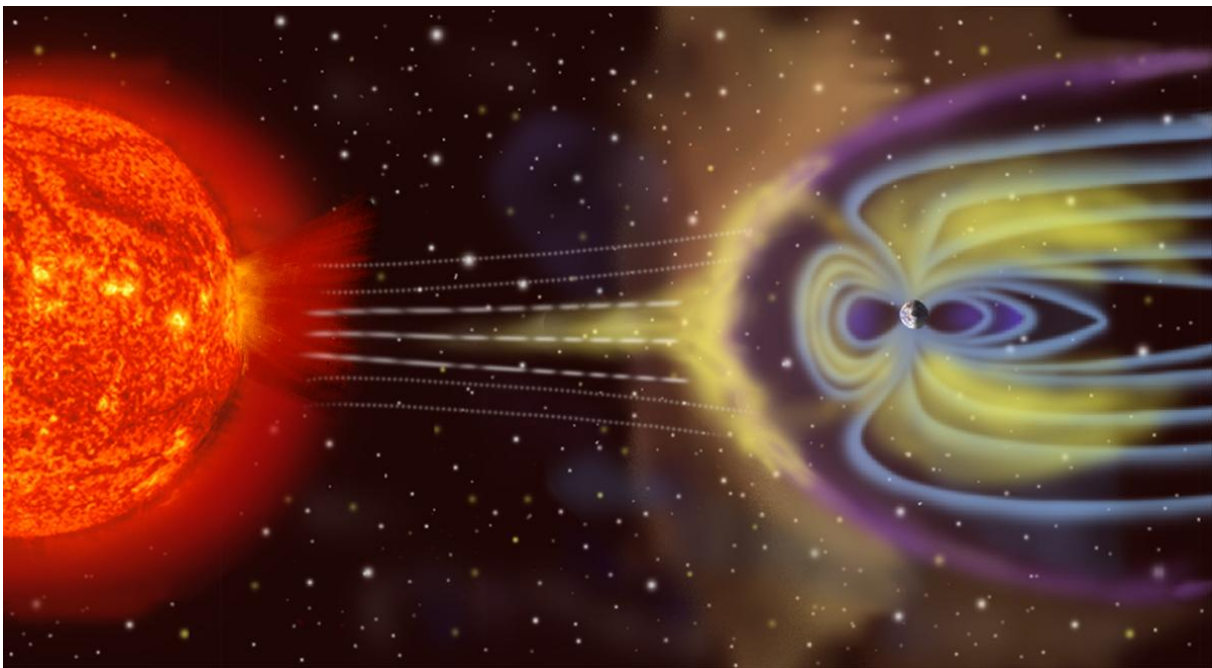


A magnetic signal penetrates deeper into the Earth if its period is longer or electrical conductivity is smaller.

Credit: Space.dtu.dk

An intense magnetic radiation, induced in the upper layers of the atmosphere, means a deeper penetration inside the Earth and consequently, higher thermal activity. Basically, all dynamic activities inside the Earth, whether in the crust, in the upper mantle or in the interior, depend on thermal activity and its distribution. Nevertheless, Earth's magnetic field varies on different timescales, and the most important variation is the one that results in field polarity reversals. The time-varying external fields are the main factors in the changes that take place in the main geomagnetic field. In other words, the

electromagnetic radiation induced in the outer layers is the energy supply that keeps the geomagnetic dynamo process functioning. The dynamo process behaves like a magnetic induction coil that allows energy to be produced by electromagnetic induction. And, when the Earth's molten layer (iron and nickel), which makes up the outer core, experiences magnetic stress as a result of magnetic field interactions, this causes a current to flow inside the layer. This current induces its own magnetic field, which is stronger than the field that generated it in the first place. As the molten metal goes through the stronger field, more current is induced that increases the field even further. This geomagnetic dynamo process needs energy to keep it running, and it takes enormous amount of energy to produce and sustain this field. Thus, the magnetic field cannot exist at all if the dynamo does not receive an external energy supply. The system cannot sustain itself by using fuel from the Earth's core. The auroras that occur 24 hours a day, seven days a week and 365 days a year, is the physical evidence for the steady-external power supply to our planet through its Polar Regions. The auroral lights are accompanied by electric current, this current is generated when Earth's magnetic field- at its strongest locations- interacts with the highly charged particles of the Sun. Usually, as large as a few hundred thousand amperes flow along the aurora, but during very intense geomagnetic storm the flow can reach billions of amperes. Therefore, huge amount of current which can reach billions of Amps go into the interior of the Earth on a regular basis. This electric current is what powers the Earth's internal magnetic field and allows the Earth to maintain its spinning. Namely, the inner core rotates because it is part of a vast electric circuit connected to the Sun.

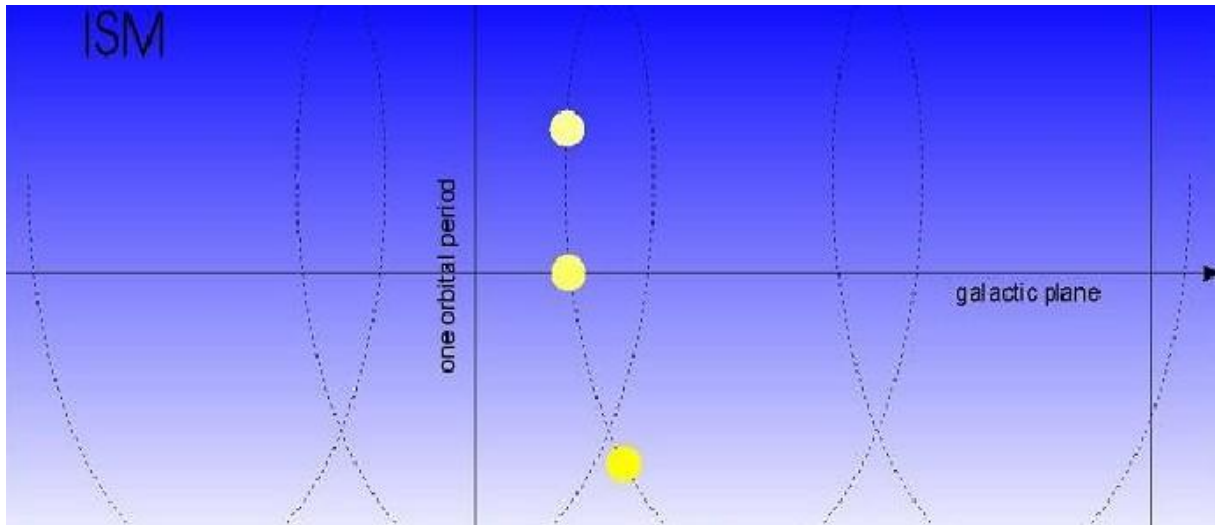


Artist's depiction of solar wind particles interacting with Earth's [magnetosphere](#). Sizes are not to scale.

Credit. wikipedia.org

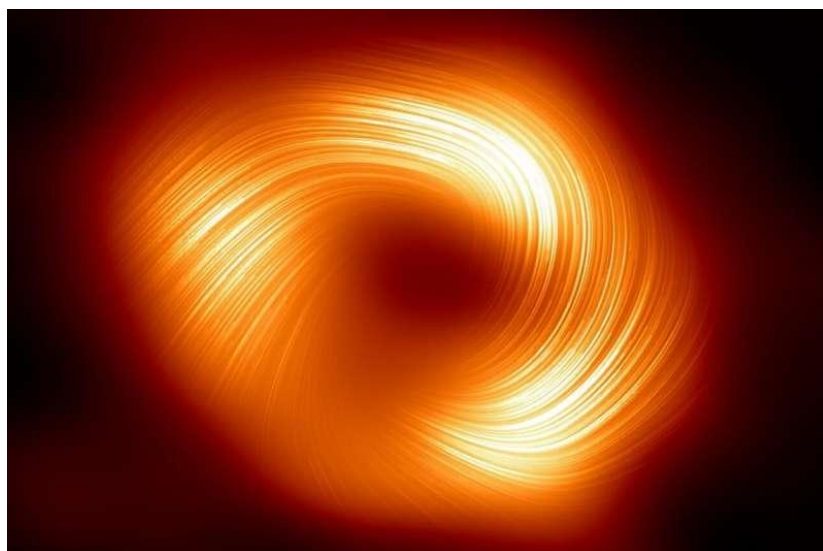
Nevertheless, the energy supply from the Sun can remain more or less steady for a very long time (many thousands of years), but incremental changes will always take place on upward or downward spiral cycles. These cycles depend exclusively on the position of the Sun in the galaxy. The figure below shows the up and down spiral motion of the Sun, while orbiting the nearest star. An advanced telescope placed outside the solar system will show the Sun spiraling up-down and part of Alpha Centauri Star System. Currently, the Sun is orbiting Proxima Centauri and in the far distance future, it will orbit Alpha Centauri A and B. The reason why, I believe, the Sun is orbiting Proxima Centauri is because currently Proxima Centauri is the nearest star to the Sun and possessing stronger magnetic field than the Sun. Actually, Proxima Centauri has been the closest star to the Sun for about 32,000 years and will be so

for about another 25,000 years, after which Alpha Centauri A and Alpha Centauri B will alternate approximately every 79.91 years as the closest star to the Sun.



Credit: Jamal Shrair-Helical Universe

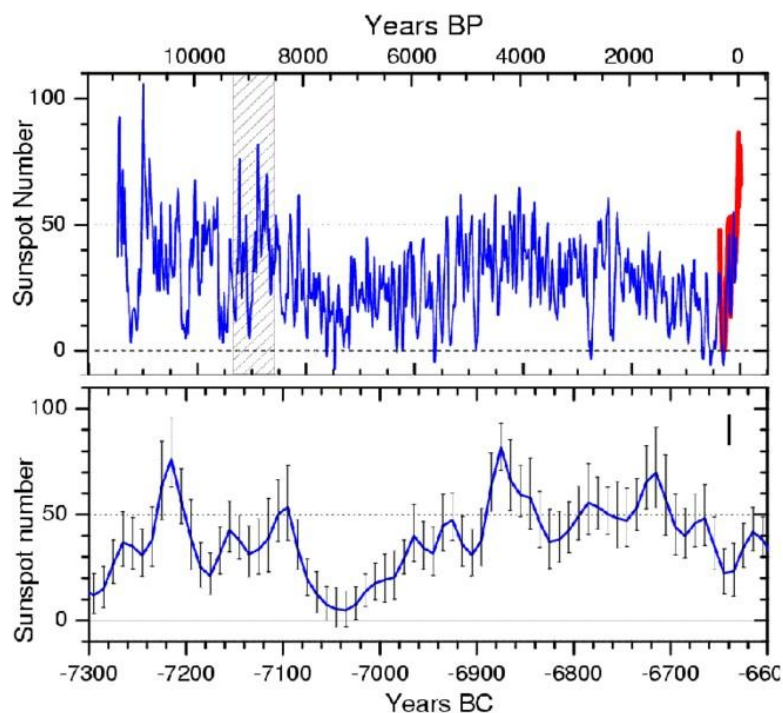
The motions of the Sun in galaxy, and just like its magnetic field and most basic features, cannot be understood if the force of gravity would be considered as the dominant force over the solar body. Furthermore, the notion which assumes that the Sun is orbiting only the galactic core is definitely wrong. In fact, even astronomical structures that are not so far away from the galactic center do not orbit it directly, but they are orbiting other structures that possess stronger magnetic force than their own. Eventually, everything is orbiting the galactic center since every structure is indirectly connected with it and its strength increases as you approach it. Notice that, based on my proposed theory of the magnetic structure of matter, the galactic center possesses the strongest magnetic field in the entire galaxy. In other words, what exists at the center of every galaxy is not supermassive black hole, but rather super-intense magnetic field, and that is the reason why every galaxy is orbiting around its center. Future discoveries will show this fact beyond the shadow of a doubt. Actually, recent space observations have already revealed this fact. [Astronomers Unveil Strong Magnetic Fields Spiraling at the Edge of Milky Way's Central Black Hole | Center for Astrophysics | Harvard & Smithsonian](#)



Credit: EHT Collaboration

But institutional physicists are telling us that INFINITELY STRONG GRAVITATIONAL FIELD IS SURROUNDED BY STRONG MAGNETIC FIELD! Gravity is the weakest force in nature, but according to the authority of theoretical physics, it is infinitely strong at the center of galaxies, and on the top of that surrounded by a strong magnetic field? Just for the sake of argument, if we accept that gravity is infinitely strong at the center of galaxies, then how can a strong magnetic field be created around it? What kind of physics is that?! Apparently, the physics of **the MYTH-MAKERS**.

Anyhow, Earth changes during the upward cycle are always enhanced and speeded up by an excess amount of solar-cosmic energy events. Such as an intense solar flares, gamma-ray bursts, interstellar gamma radiations, and cosmic rays showers (high energy cosmic particles). In other words, when the Sun approaches its highest point in the galaxy, on its upward spiral, the energetic events increase in the number and magnitude. Consequently, they induce major changes not only to our planet but also to other planets and in fact, to the Sun itself. Now, look at this research that was carried out by an international team of scientists, more than 20 years ago. The research team found the Sun to be more active than over the last 8000 years. Furthermore, a year earlier (2003), the same research team found evidence that the Sun is more active than in the previous 1000 years. However, the research team did not say anything about the cause that made the Sun more active. Obviously, the reason has to do with the spiraling up and down. When it is spiraling up, its energetic activity increases enormously and the opposite is true, when it is spiraling down. The Sun is a variable star on short and long time scales, and this fact alone is more than sufficient to discard the current gaseous model. [The Sun is more active now than over the last 8000 years | Max-Planck-Gesellschaft \(mpg.de\)](#).



Above: Reconstructed sunspot activity (10 year-average) for the last 11,400 years based on C-14 data (blue curve) and the directly observed historical sunspot data since 1610 (red curve). The reliable C-14 data ends around the year 1900 so that the sharp increase in sunspot activity in the 20th century does not appear in the graph. The reconstruction shows clearly that a comparable period of high sunspot activity previously existed over 8000 years ago. Below: An enlarged section of the upper graph (hatched area) with several episodes of higher Sun activity; comparable to the 20th century." © Max Planck Institute for Solar System Research

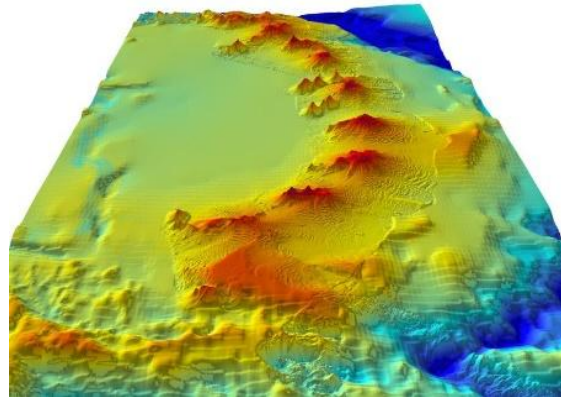
However, any solar-cosmic event during the final phase of the upward cycle would induce extra energy in the outer layers of our planet that would be transferred to the inner ones. This is why the core

temperature of the Earth depends on the total amount of extraterrestrial radiations. Other energy sources like radioactivity and friction may produce a constant and small amount of current, but the process of electromagnetic induction does not produce a constant current because it depends on external factors. Principally, the diffusion of heat from the Earth's interior to the upper layers as a result of external energy build-up is the cause of Earth changes throughout history. This is my basic argument over many years, and this fact is becoming increasingly obvious.

All previous studies of ocean warming, however, have been carried out on the upper 700 meters of water, due to the limited availability of ocean-temperature data below that depth. But since around the turn of the century the Argo array, an international system of robotic profiling floats, has massively increased ocean sampling to 2,000 meters, and allowed researchers to show conclusively that ocean warming extends below 700 meters. In reality, the heating of the oceans is starting at their bottoms. This fact has been proven in the coldest waters of the abyssal zones. Oceanographers measured the abyssal ocean to depths of 6,000 meters by lowering accurate recording thermometers and other instruments to the ocean floor on long cables from research vessels. During the 1980s and 1990s, an international program called the [World Ocean Circulation Experiment](#) collected thousands of such profiles around the globe. Those oceanographers returned in the 2000s and re-measured ocean properties of those same sites. They detected a consistent warming signal in the abyssal ocean around the globe. The measuring data showed the strongest warming is taking place in the Southern Ocean, around Antarctica. The rate was approximately 0.03 degrees Celsius per decade. See: **Warming of Global Abyssal and Deep Southern Ocean Waters between the 1990s and 2000s: Contributions to Global Heat and Sea Level Rise Budgets'** <http://journals.ametsoc.org/doi/abs/10.1175/2010JCLI3682.1> Further north, abyssal ocean waters are also warming, although at smaller rate compared to what the Oceanographers saw in the deep Southern Ocean. Now, the question that should be asked, is how can a warming atmosphere influence the temperature of these abyssal waters? These abyssal waters are thousands of meters below the surface. The notion of so-called deep ocean circulation cannot possibly be correct explanations, because it is a deeply flawed notion. In fact, even some mainstream researchers who are advocates of man-made climate change have acknowledged that the deep ocean circulation theory is wrong. See the following articles: **Cold Water Ocean Circulation doesn't Work as Expected:** <https://www.sciencedaily.com/releases/2009/05/090513130942.htm>. **The physical flaws of the global warming theory and deep ocean circulation changes as the primary climate driver:** <http://tropical.atmos.colostate.edu/Includes/Documents/Publications/gray2012.pdf>

Anyway, over the last a few years, the real cause for the warming of the global abyssal, the deep Southern Ocean, and also the big decrease of ice in Antarctica has become clearer. Namely, from underwater thermal activities, particularly from submarine volcanic eruptions. Between 2011-2017 a large number of giant undersea volcanoes have been detected around and below Antarctica. But, it seems that the actual number of volcanoes below that continent is even higher than what has already been detected, where some of them are already active. Note that most underwater Volcanic eruptions do not reach the surface but rather melt the ice from beneath and drastically destabilise it. This is definitely the case with the white continent, and this is the reason why it is losing some of its ice to the ocean. According to a research paper published in 2014 in geophysical research letters, Antarctica is losing about 160 billion tonnes of ice a year to the ocean- twice as much as when the continent was last surveyed. The research paper was based on data collected by Europe's Cryosat spacecraft. You can read the whole paper in the following link: **Increased ice losses from Antarctica detected by CryoSat-2** <http://onlinelibrary.wiley.com/doi/10.1002/2014GL060111/abstract> Furthermore, on July 16 2011, it was reported on national geographic news that giant undersea volcanoes were discovered around Antarctic. Explicitly, a dozen previously unknown peaks were discovered beneath the waves — some up to 10,000 feet (3,000 meters) tall, according to the British Antarctic Survey. The volcanoes were found

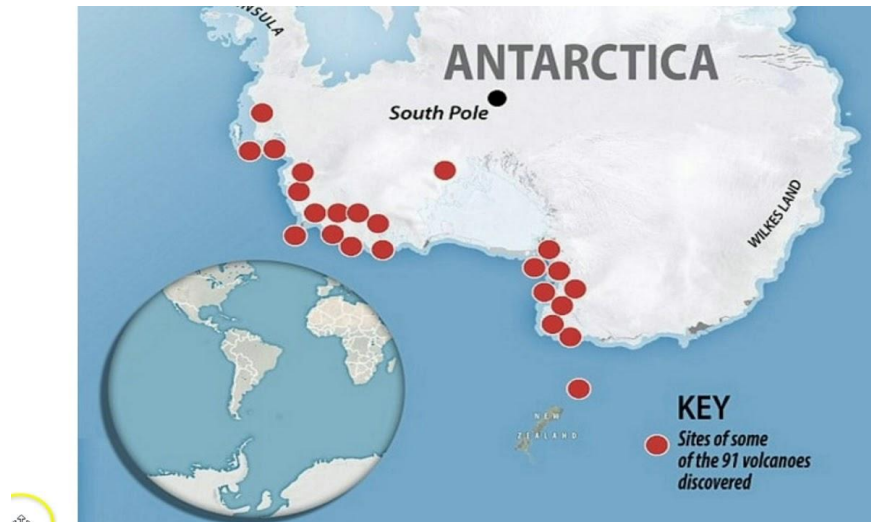
near the U.K. territories of the South Georgia Islands and South Sandwich Islands during a month long mapping expedition, which used multibeam sonar to fill in a 370-mile (600-kilometer) by 90-mile (150-kilometer) gap in existing seabed maps."It was amazing finding them," said Phil Leat, geologist and volcanologist with the survey. "There were so many of these volcanoes we had no idea about." The researchers were expecting to find volcanoes in those territories, but not one the size of Japan's Mount Fuji. "It's also very exciting, because you are discovering not just a volcano nobody knew about but a huge one."



Newfound undersea volcanoes around the South Sandwich Islands are seen in a 3-D sonar image. Image courtesy British Antarctic Survey

A year earlier in 2010, another active giant underwater volcano was mapped and explored in detail for the first time by a joint Indonesian-U.S. expedition north of the island of Sulawesi. Watch the Video: **"the first footage of one of the world's largest underwater volcanoes, a roiling, 10,000-foot-tall peak crawling with crustaceans near Indonesia"** <https://news.nationalgeographic.com/news/2010/07/100714-indonesia-oceanos-volcano-exploration-vin/> And in 2017 researchers from Edinburgh University have uncovered almost 100 volcanoes below Antarctic ice sheet. This is in addition, to the 47 that had been discovered over the previous century of exploring the region. ***Student's idea leads to Antarctic volcano discovery*** <https://www.ed.ac.uk/news/2017/student-s-idea-leads-to-antarctic-volcano-discover>

These newly discovered volcanoes vary in height from 100 to 3,850 metres and all of them are covered in ice, which sometimes lies in layers that are a few kms thick. These active peaks are concentrated in a region known as the west Antarctic rift system, which stretches 3,500km from Antarctica's Ross ice shelf to the Antarctic peninsula. One of the research team said, we are amazed, "We had not expected to find anything like that number. We have almost trebled the number of volcanoes known to exist in west Antarctica. We also suspect there are even more on the bed of the sea that lies under the Ross ice shelf, so that I think it is very likely this region will turn out to be the densest region of volcanoes in the world, greater even than east Africa, where mounts Nyiragongo, Kilimanjaro, Longonot and all the other active volcanoes are concentrated."



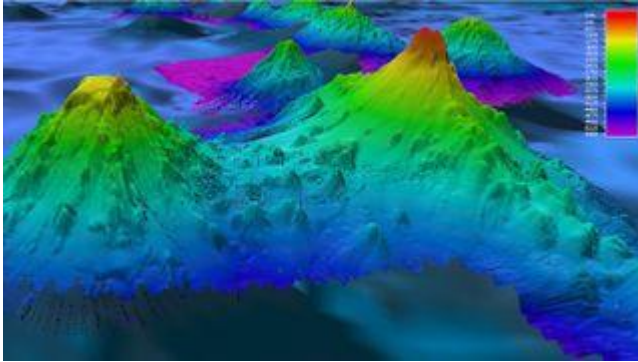
Credit: WN.com

Shortly after the British team announced the discovery of this massive number of volcanoes below Antarctic ice sheet, a team of scientists from New Mexico Tech, Dartmouth College and Vermont Technical College has uncovered evidence of volcanic eruptions in ice cores taken from the West Antarctic Ice Sheet (WAIS). A paper describing their findings has been published in Scientific Reports. **The first physical evidence of subglacial volcanism under the West Antarctic Ice Sheet:** <https://www.nature.com/articles/s41598-017-11515-3>

On the other hand, the activity of underwater volcanoes in Arctic region is even more extreme. The world's northernmost active volcano is in the Arctic, on the northeastern tip of Jan Mayen Island between Norwegian and Greenland seas. Also, very long ridges exist, like Kolbeinsey Ridge, Gakkel Ridge and Lomonosov Ridge which stretches for 1,800 km. Most of the volcanoes in those ridges are becoming active and some of them have been active for many years. See, **Ice and flames: Those mysterious Arctic Volcanoes** [Ice and flames: Those mysterious Arctic volcanoes](#) , **Volcanoes Erupt Beneath Arctic Ice: Volcanoes Erupt Beneath Arctic Ice | Live Science** In addition to the above data, the Wood Hole Oceanographic Institution, <http://www.whoi.edu/> reported on January 12, 2018 that a visit to the biggest underwater volcano eruption in the last 100 years revealed deep sea mystery. **A Close-up Look at a Rare Underwater Eruption. Expedition to explore the Havre volcano reveals surprising details** <http://www.whoi.edu/news-release/a-close-up-look-at-a-rare-underwater-eruption> But the eruption of Havre volcano held the record only until January 14, 2022, and that is because one day later **Hunga Tonga-Hunga Ha'apai Volcano** produced the largest underwater explosion ever recorded by modern scientific instruments, blasting an enormous amount of water and volcanic gases higher than other eruption in the satellite era. It was bigger than any nuclear explosion. Tsunami waves overwhelmed shores and ash flew up into the third layer of Earth's atmosphere, higher than any other recorded volcanic eruption. Can you believe that the amount of water shot up in the atmosphere is enough to fill up around 60,000 Olympic size swimming pools? Furthermore, new study showed that the eruption produced at least 2,600 lightning bolts each minute during peak activity, shattering rates from any other weather system, storm or volcanic eruption recorded in Earth's history. Certainly, this extreme geological event is clear indication for the rapid shifting of Earth's magnetic field, and surely bigger eruptions will start taking place in the near future.

Now, if the above mentioned discoveries about the underwater volcanoes come as a surprise to you, then the discoveries over the last three years, 2023-2024, especially 2023, will be considered as a total shock.

- 1- 'Mind boggling' array of 19,000 undersea volcanoes discovered with high-resolution radar satellites ['Mind boggling' array of 19,000 undersea volcanoes discovered with high-resolution radar satellites | Live Science](#)



"Pao Pao Seamount in the South Pacific Ocean has been mapped by sonar, while thousands of other seamounts are just now being discovered by satellites. (Image credit: NOAA Office of Ocean Exploration and Research)"

- 2- Chain of underwater volcanoes discovered near Antarctica has implications for global climate [Chain of Underwater Volcanoes Discovered Near Antarctica has Implications for Global Climate \(theweather.com\)](#)
- 3- Four gigantic mountains discovered underwater near Chile: [Four gigantic mountains discovered underwater near Chile | news.com.au — Australia's leading news site](#)
- 4- Active underwater volcano covered with up to a million eggs just 'scratching surface' of 'big deal discovery' [Scientists discover ancient, underwater volcano is still active — and covered in up to a million giant eggs | Live Science](#)
- 5- **Mediterranean** New mud volcano discovered in the Barents Sea: [New volcano discovered in the Barents Sea | UiT](#)
- 6- Expedition Discovers Underwater Volcanoes and Sunken Ship: [Mediterranean Expedition Discovers Underwater Volcanoes and Sunken Ship \(theinertia.com\)](#)

Nonetheless, there is no doubt in my mind that the number of underwater volcanoes that are now active is far, far higher than what has already been detected. That is because the rate of heat flow from the interior of the Earth to the upper layers has increased enormously in recent years. This fact is crystal clear from different observations. First, from the numerous methane leaks found on the floors of world's oceans. Besides, that there are vast reservoirs of carbon dioxide scattered under the seafloor across the planet.

- 1- methane percolating up from the sea floor off the eastern coast of the United States: <http://www.sciencemag.org/news/2014/08/numerous-methane-leaks-found-atlantic-sea-floor>
- 2- Strange methane leak discovered at the deepest point of the Baltic Sea baffling scientists: [Strange methane leak discovered at the deepest point of the Baltic Sea baffling scientists | Live Science](#)
- 3- Hunting Bubbles: Understanding plumes of seafloor methane: [Hunting Bubbles: Understanding Plumes of Seafloor Methane - Schmidt Ocean Institute](#)

The other indication for the increase of the thermal energy from the Earth's interior comes from the emerging of many new islands all over the globe. Between 1996-2016, ten new islands have been formed. "Yes, islands are disappearing — most recently the five Solomon Islands, but don't despair just yet, for every island that goes the way of the dodo bird, the Earth is busy creating new islands." Read the rest at the following link [8 New Islands Formed in the Last 20 Years \(treehugger.com\)](https://www.treehugger.com/8-New-Islands-Formed-in-the-Last-20-Years) Watch in the link below how NASA satellites captured the amazing formation process of new island in the South Pacific, as result of huge underwater volcano eruption. This is the first time satellites could see an island forming. The island is only about a mile long. It was expected to be washed away soon after its formation. But it's still there <http://www.businessinsider.com/nasa-satellites-see-formation-new-island-hunga-tonga-hunga-haapai-2017-12> You can read more about the formation of new islands in the two following links. Smoke and magma mark the spot! From Japan to Germany, the world's newest islands revealed. [From Japan to Germany, the world's newest islands revealed | Daily Mail Online](https://www.dailymail.com/science-technology/article-3848441/From-Japan-to-Germany-the-worlds-newest-islands-revealed.html)

The Caribbean May Soon Have a New Island: <http://www.visailing.com/blog/the-caribbean-may-soon-have-a-new-island/> An undersea volcano is building a new island in Japan: [Underwater Volcano Forms New Island in Japan- The New York Times \(nytimes.com\)](https://www.nytimes.com/2023/10/21/science/new-island-japan-undersea-volcano.html) **"The new island is the product of an unnamed undersea volcano that began erupting on Oct. 21, 2023"**

The massive increase in the number of underwater volcanoes that were detected in the last 30 years, and also the formation of many new islands around the globe, have exposed the pseudoscience theory of man-made climate change. At the same time, this rise of underwater thermal activity shows that the extraterrestrial energy at the Earth's interior which is the fundamental cause for the climate change and temperature change of the oceans has increased. The other indication for the increase of extraterrestrial energy is the increase of earthquakes, especially deep earthquakes, and when the optimum energy level will be reached at the Earth's interior, the geomagnetic reversal will be completed and accompanied by a massive geological upheaval, just like in the case of all previous reversals. However, I believe that Earth scientists have been aware for a very long time of the massive increase in undersea volcanic eruptions, but acknowledging this fact would expose their theory of man-made global warming. Actually, even if they acknowledge openly the massive increase of geological activities, they still cannot provide the explanation for the sudden increase based on the current orthodox theories. That is because Earth science has serious defects and misunderstanding, especially with regard to the mechanism of Earth's magnetic field and the reason for its reversal. Additionally, it is not recognized under current Earth science, the important role of Earth's magnetic field in the weather patterns, although many studies have shown this important role. **See, The whole atmosphere response to changes in the Earth's magnetic field from 1900 to 2000: An example of "top-down" vertical coupling: [The whole atmosphere response to changes in the Earth's magnetic field from 1900 to 2000: An example of "top-down" vertical coupling - Clossen - 2016 - Journal of Geophysical Research: Atmospheres - Wiley Online Library](https://www.researchgate.net/publication/311111111)**

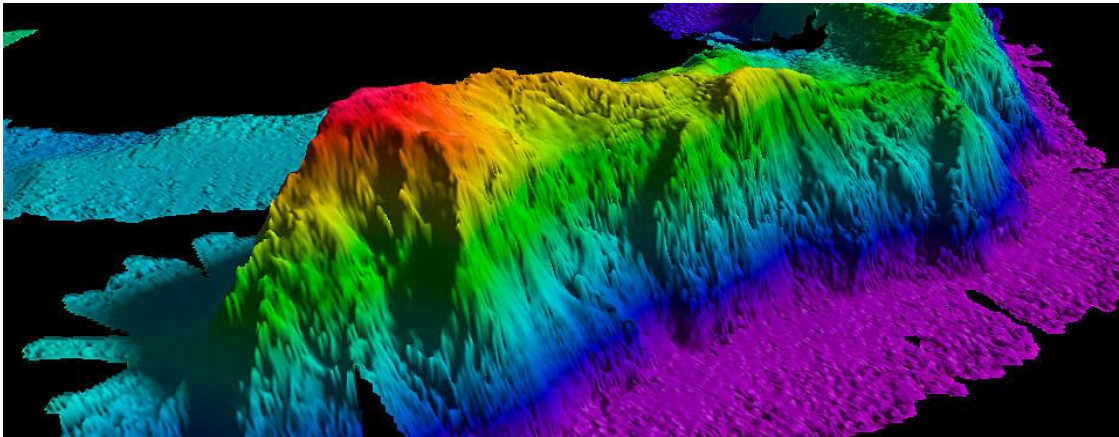
However, due to the reason that oceans occupy twice the surface area of land, Earth scientists were thinking that the number of underwater volcanoes cannot be far higher than the number of volcanoes that exist on land. Actually, up to 1990s geophysicists and geologists were assuming that only around 10,000 underwater volcanoes are lurking beneath the seas and oceans. On the other hand, the advocates of man-made climate change were arguing that this number of volcanoes cannot contribute any significant amount of heat to the temperature of the oceans, even if all these volcanoes are active, since oceans cover 71% of our planet. But, by the middle of first decade of the current century, the opinion regarding the number of submarine volcanoes changed drastically. For instance, Oregon State University (OSU) reported on its website that there may be more than one million underwater volcanoes. <http://volcano.oregonstate.edu/submarine>

"If an estimate of 4,000 volcanoes per million square kilometers on the floor of the Pacific Ocean is extrapolated for all the oceans, then there are more than a million submarine (underwater) volcanoes. Perhaps as many as 75,000 of these volcanoes rise over half a mile (one kilometer) above the ocean floor. Technology and hard work by a group of tenacious explorers/geologists have allowed us our first detailed glimpses of submarine volcanoes." Although the researchers of OSU acknowledged an important fact about our planet that other mainstream institutes did not acknowledge, they still- in my opinion- intentionally underestimated the impact of these submarine volcanoes on the temperature of the oceans. The problem is in the following quotation "The most productive volcanic systems on Earth are hidden under an average of 8,500 feet (2,600 m) of water. Beneath the oceans a global system of mid-ocean ridges produces an estimated 75% of the annual output of *magma*. An estimated 0.7 cubic miles (3 cubic kilometers) of *lava* is erupted. The magma and lava create the edges of new oceanic plates and supply heat and chemicals to some of the Earth's most unusual and rare ecosystems." It is a well known fact that there are around 1500-1511 potentially active land volcanoes, with about 500 of them having erupted in historical time. So, how can more than one million submarine volcanoes only release 75% of the amount of lava produced by 1,500 land volcanoes? Absolute nonsense, even if we do not take into consideration that on average a land volcano is smaller compared with a submarine volcano. This is yet another example showing how institutional researchers have to be politically correct no matter what scientific data they have in hands. Actually, even after NASA was persuaded to admit that there might be one million submarine volcanoes, the advocates of man-made climate change never wavered, and in their opinion even if 30% of this huge number of underwater volcanoes are active, still cannot have bigger impact on the temperature of the oceans, like carbon dioxide emissions. In reality, if just a fraction of these volcanoes are active they would induce massive amounts of heat and CO₂ into the world's oceans.

Nonetheless, the estimated number of underwater volcanoes continued to rise. Timothy Casey, consulting geologist, argued in his paper that three million underwater volcanoes "can't be wrong" His paper was published on June 15, 2014 in Principia Scientific International, titled 'Volcanic Carbon Dioxide.' Timothy Casey stated in his paper that most estimates of volcanogenic carbon dioxide emission are woefully low. "An enormous and unmeasured amount of carbon dioxide degases from volcanoes, mostly submarine. Lava contains a surprising amount of carbon dioxide. In fact, CO₂ is the second most abundantly emitted volcanic gas next to steam." Casey added that "carbon dioxide emissions from volcanoes – especially from underwater volcanoes – dwarf anthropogenic contributions (man-made) sources. Unfortunately, some researchers dismiss not only mid-oceanic-ridge emissions, but all other forms of submarine volcanism altogether, which is a major oversight." Moreover, according to one study, Pacific mid-plate seamounts number between 22,000 and 55,000, of which 2,000 are active volcanoes. And one researcher even dismisses those few, justifying the omission by claiming that mid oceanic ridges discharge less CO₂ than is consumed by hydrothermal carbonate systems.

Anyway, Casey pointed out that after surveying 201,055 submarine volcanoes, Hillier & Watts estimated that more than 3 million submarine volcanoes exist worldwide, of which, Casey estimated, 140,000 are active. See the entire paper at the following link <http://principia-scientific.org/volcanic-carbon-dioxide.html/> Yet, the above estimation concerning the number of underwater volcanoes is not the end of the story. Fisher and Wheat believe that the number of hydrothermally active seamounts at somewhere between 100,000 and 10,000,000. Most of these seamounts are so big, as many as a million of them have diameters bigger than 7 km and stand more than 2 km high. The two researchers also stated that a significant number of the seamounts already surveyed appear to be hydrothermally active. Seamounts are undersea mountains formed by volcanic activity were once thought to be little more

than hazards to submarine navigation. Today, scientists recognize these structures as biological hotspots that support a dazzling array of marine life.



A map of a seamount in the Arctic Ocean created by NOAA's Office of Coast Survey by gathering data with a multibeam echo sounder.

Furthermore, Fisher and Wheat estimated that another 1 to 10 million smaller hydrothermal features may dot the ocean floor. Those smaller hydrothermal features stand some 100 meters high. You can read the whole paper of Fisher and Wheat, entitled, "Seamounts as Conduits for Massive Fluid, Heat, and Solute Fluxes on Ridge Flanks." At the following link: https://websites.pmc.ucsc.edu/~afisher/CVpubs/pubs/FisherWheat2010_SeamountFluxes.pdf

To many people, including well-known Earth scientists, the above predicted number of underwater volcanoes, seamounts and hydrothermal features is exaggerated, but not in my understanding. In fact, the number should be much higher. Earth's interior is fed continuously with external energy - mainly through the polar regions and without releasing the excess energy supply, Earth would have blown up millions, if not billions, of years ago. At the same time, if Earth's inner core does not receive external energy supply, it would have been dead-cold, also billions of years ago and stopped spinning. One can roughly estimate the amount of energy and volcanic materials released as results of earthquakes and volcanic eruptions ever since Earth was formed, or a long time after it was formed. Furthermore, and most importantly, do you know that the average heat flow from the Earth's surface is 87mW/m^2 – that is, 1/10,000th of the energy received from the Sun? That means the Earth emits a total of 47 terawatts, the equivalent of several thousand nuclear power plants. So, with all these hot materials and energy thrown into the surface and the atmosphere over millions of years - not to mention billions - how can the temperature of the core remain hotter than the surface of the sun? In fact, my argument is valid even if one accepts the notion that half of the heat at the Earth's core comes from the decay of radioactive elements, which is of course not true at all since the tiny amounts of radioactive elements are located in the crust, while the core is composed of an iron-nickel alloy.

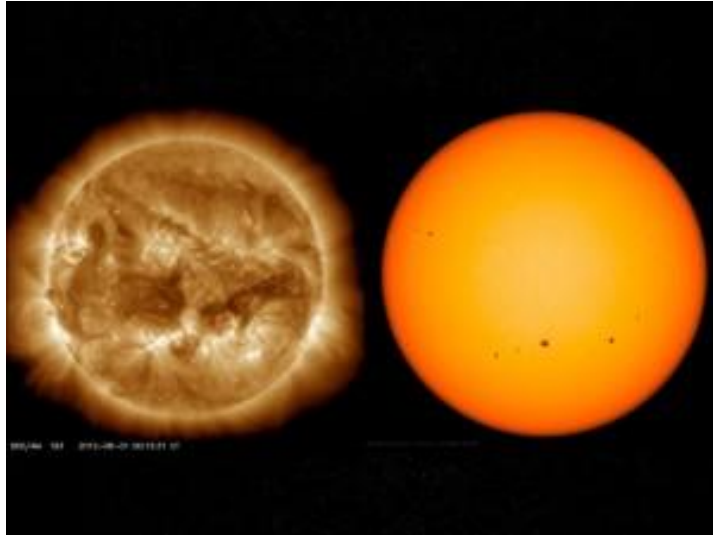
Read: The source of up to half of Earth's internal heat is completely unknown-here's how to hunt for it. [The source of up to half of the Earth's internal heat is completely unknown – here's how to hunt for it \(theconversation.com\)](#) Also, read, where does the Earth's heat come from? [Where does the Earth's heat come from? \(theconversation.com\)](#)

Further Elaboration & Conclusion

Obviously, there is an overwhelming and decisive observational evidence that shows why the weakening of Earth's magnetic field is the real reason that makes the Polar Regions warming much faster than the global average. The weakening of Earth's magnetic field is also the reason that caused the increase of thermal energy flow from the interior to the upper layers, which caused the heating of the bottom of the world's oceans, especially those parts of the oceans that are close to the two Poles, like Arctic and Antarctic Oceans. Moreover, those regions are where the magnetic field intensities decreased more than on the average. Like in the case of South-North Atlantic regions that witnessed rapid increase in temperature.

However, in spite of the fact, that these observational data clearly and decisively debunk the pseudoscience theory of the green-house gases, the political-economic establishment that rules the world's leading scientific institutions is still not giving-up. In fact, the situation is the exact opposite, the claims associated with the pseudoscience theory are increasing every year, and without restrictions or boundaries. Can you believe that this pseudoscience theory is blaming human activities for the shifting of Earth's axis of rotation? In other words, some of "the politically correct climate scientists" are ridiculously claiming that the emission of CO₂ is also causing the shifting of Earth's axis of rotation. Specifically, one study carried out by researchers at the Institute of Geographic Sciences and Natural Sources Research in China claimed that the melting of glaciers redistributed enough water to cause the direction of polar wander to turn and accelerate eastward during the mid-1990s. S. Deng and follow researchers stated in their "peer-reviewed paper" that Loss of water on land through ice melting and human-caused factors is changing the movement of the North and South poles. "Glacial melting due to global warming is likely the cause of a shift in the movement of the poles" See the link <https://scitechc.com/faq/has-the-earth-shifted-on-its-axis/>

Now, what more do you want? Maybe they should also blame the reversal of the Sun's magnetic field on our CO₂ emission. This research paper reminded me of another ridiculous claim by those advocates of the pseudoscience theory. In 2008-2009, a contraction of the thermosphere was observed, and it was the largest since at least 1967. The contraction was also blamed on the increase of carbon dioxide concentrations. But the lead author of the study said, "Even when we take CO₂ into account using our best understanding of how it operates as a coolant, we cannot fully explain the thermosphere's collapse." **See: Record Collapse of Earth's Upper Atmosphere Puzzles Scientists** [Record Collapse of Earth's Upper Atmosphere Puzzles Scientists | Space](#) Note that this contraction happened during the period of deep solar minimum. Namely, there were no sunspots observed on 266 of [2008's] 366 days (73%). More importantly, the solar corona also contracted simultaneously with the thermosphere, and by huge value, more than usual. So, was the emission of CO₂ by humans also the cause for the contraction of the solar corona? In this regard, it is worth mentioning an extremely important fact about the Sun which shows its true physical structure. The question is why only the solar atmosphere (the corona) changes enormously with solar cycles? Precisely, why the corona changes drastically from solar minimum to solar maximum, while the rest of the solar body remains constant and without even a slight change? There is no way that any solar physicist or astrophysicist can provide the correct answer to this question, if he or she believes that the Standard Solar Model represents the physics truths of the Sun. **See: Sun Stays Nearly Spherical, even when it Freaks Out:** [Sun stays nearly spherical, even when it freaks out | Nature](#)



Credit: NASA/SDO and the AIA, EVE, and HMI science teams

From time to time, very clear observational data comes up that entirely exposes the wrong foundations of the core theories of current physics, which are built on baseless hypothetical notions and pure mathematical modeling. There are so many examples in both geophysics and solar physics where observational data decisively debunk the conventional core theories. But, of course, leading institutional scientists, particularly the theoreticians, are always ready- *although it becomes almost impossible task with recent observational data* - to come up with different hypothetical assumptions, in order to insert the observational data into their conventional theory. Yet, if you read those research papers with an intelligent mind, you can easily detect that the researchers are puzzled in spite of their theoretical models and arguments that seem- and only superficially- to support their conventional theories, like in the case of the pseudoscience theory of man-made climate change.

Nonetheless, science, especially climate science, has been corrupted for political-economic reasons: the funding provided by governments, who primarily- if not entirely- represent the interest of the crony-capitalist organizations. Basically, those new radical left governments (new communists) are funded and supported so they can hold political offices and implement the so-called, Green New Deal, which is actually a new communist manifesto, or rather the communist manifesto of the 21st century. This Green New Deal is nothing else other than an excuse to nationalize more sectors of the economy. In other words, the aim of those communist-minded figures, who call themselves supporters of free market economy, is the pockets of the hard-working people. They are bringing radical leftists to power in all major developed countries and using the UN (for proposing agreements), like the Paris Accord Climate Agreement, in order to confiscate tens and tens of trillions of dollars. Thus, it is abundantly obvious, the current climate theory is a political dogma and attack on science but, tragically, scientific integrity has been abandoned and science is ruled by corrupt politicians.

Finally, I would like to emphasize that the greatest tragedy facing humanity today is the corruption of science and the absence of free scientific institutes. The belief that science is free and scientific institutes make free decision is a superficial belief. In fact, it is similar to the belief that we have a free market economy. In reality, free movement and fair competition of scientific ideas do not exist, just like in the case of the economic sphere. Namely, free market economy does not exist and it has always been the number one enemy for those who wanted to exploit and enslave humanity. Actually, if we had free market economy, all the fake science projects that cost so many trillions of dollars over the last several decades would have never happened. What existed and what exists today is crony-monopolistic capitalism, which is identical to communism, if not worse. This inherently corrupt system is not only the root cause for the destruction of social fibers, human morales and the obstacle that prevents true social development, economic prosperity and peaceful co-existence, but also and more importantly, it is the biggest hurdle preventing the greatest scientific progress. Basically, under this corrupt system, only

science ideas that can increase the wealth of crony-capitalists are allowed and deserve taxpayers' money. Even if those ideas are pseudoscience ideas and received taxpayers' money for almost 100 years, without any result, like in the case of the so-called controlled thermonuclear fusion research.

Note, that the advocates of the pseudoscience theory of global warming are mixing-up the natural causes of climate change with the issue of the pollution. The pollution is the result of backward industry, and a real free-market economy provides the best means of preserving the environment, internalizing pollution costs and conserving the resources. Additionally, in a society of a real free-market economy, new scientific inventions that can solve the pollution problem are not suppressed or covered up, like in our era.

Dear science defender, the Sun that gives us life can also solve the biggest crises facing us today, including the current energy crisis. Moreover, a bright future for humanity is completely out of the question without knowing the scientific facts of our star, and its relationship with our planet. In fact, even the most advanced space telescope that can be built- and assuming that it can be placed outside the solar system- still cannot reveal valuable scientific facts about the Universe, like in the case of knowing the real scientific facts of the Sun. Thus, the urgent task is to revise the fundamental law of physics, and restore the basic principles that allow us to clearly distinguish between pseudoscience and real science. Definitely, that will prevent the corruption of physics-*the king of science*-by the myth-makers and opportunists who driven by selfish and political aims, rather than the seeking of the scientific truths.

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