

Is the Sun Alive?

First of all- Why does it matter? Or- What is the importance of this question?

In ancient times, some nations [Egypt, Greece, Persia etc.] worshiped the Sun as a deity. Then came the pioneering monotheistic religion of Judaism and brought about a change. The basic idea of this religion is that there is something more than the physical world and that there is a God that is non-temporal and transcendental to our physical world. No physical-temporal being or physical creation should be worshiped, be it a cat, a goat, a cow, a human, or a celestial being or object.

Still the question remains- why does it matter if the sun is alive and possesses consciousness or not? It matters because the answer to this question is an indicator to the answer of a greater question: Is the physical universe, which contains interactions of various kinds of matter and forces, the only reality there is, or does it extend into other dimensions, of metaphysical realms? Or in other words- is consciousness a separate thing and does true spirituality exist?

We are all star-stuff. This very planet is molded out of the Sun's energy and the chemical elements that are created in the Sun. Thus, every living being on this Earth is a physical descendant of our Sun. Is it then too far-fetched to hypothesize that the physical source of all this life is also alive to a certain extent?

I will not claim to have an answer to this question. I do not think we know enough about ourselves, the universe and the Sun in particular to answer. Nonetheless, I will try to tackle the question and conceive the possibility that the answer may be - yes.

The Biological Question

Let us try to unravel the question using our known biological criteria for living beings. A central processing unit, or a brain, is not necessary for consciousness. There are basic-ancient living organisms without brains. Plants and trees do not have brains either, but have a basic form of awareness, as shown by different studies¹. They seem to possess consciousness in the form of feeling, striving towards sunlight and water, being in the now, without language or thought.

There are 7 [or more] known human scientific criteria for deciding whether something is alive or not. I will use Jakosky's 11 criteria for this analysis².

1. Does the Sun use *energy for metabolism*? Not in the biological sense. Though the Sun is the main source of energy in our solar system, and great energetic processes do occur on a mass scale throughout the different depths and levels of the sun, these are not considered as a form of metabolism in the traditional sense. According to Schrödinger, one of the unique abilities that defines living organisms is their ability to avoid decay and delay entropy by "negative entropy", or metabolism³. Given the amount of energy that the Sun (generously) gives out constantly, without what humans would consider as a self-promoting or self-preserving metabolic outcome, it seems (to us) that the use of energy is not for metabolism [though perhaps a deeper look will one day show otherwise] So let's say no to this one. [1- no].

¹ Wohlleben, Peter, et al. *The Hidden Life of Trees: The Illustrated Edition*. Black Inc., 2018.

² Jakosky, Bruce. *The Search for Life on Other Planets*. Cambridge: Cambridge University Press, 2001.

³ Schrödinger, Erwin. 1956. " *What is life? and other scientific essays*." Garden City: Doubleday.

2. Does the Sun maintain a *stable internal environment [homeostasis]*? This one is hard to answer because of the timescale. For example, a human being's body that survives 80/120 years undergoes many changes, from the stability of health to the instability of growth, illness and decay. Nevertheless, for the most part, it is generally stable and maintains a steady temperature, heartbeat and pulse. The Sun is in a constant state of energetic transformation. Although there are many electromagnetic changes and different cycles, when we analyze the Sun's activity from the viewpoint of millions of years, we have to say that the Sun does maintain a stable internal environment [2-yes].

3. Does the Sun detect and *respond to select external stimuli*? Throw a giant asteroid into the Sun and you will see the electromagnetic changes that occur. You might even get a response of something being thrown right back at you. That is before considering claims that the Sun has been shown to react to nuclear bombs detonations⁴, and some yet unproven claims of different more subtle forms of energetic reactions. [3-yes].

4. Does the Sun *move [external or internal movement]*? Yes, the Sun is moving fast around the center of our galaxy, and has a lot of internal energetic movement. [4-yes].

5. Does the Sun *grow and develop*? The Sun has a [life] cycle of its own. From hectic gas beginnings, to a more stable "adulthood", to nearing the end as a giant red star, until ending with various kinds of novas[super/micro etc.]. This growth and development is not like the biological type, but it is growth and development nonetheless. I would say the answer to this question is a yes, but can see the other side of the argument. [5-tentative yes].

6. Does the Sun *reproduce*? The superficial answer to this one is no, although I suspect that as our knowledge grows, we could learn that stars do "give birth" to other stars, and stellar objects. Looking at this question from a higher-philosophical point of view, stars

⁴ Twietmeyer, Ted. "A Case For The Sun to Be Alive", [rense.com](https://rense.com/general67/sun.htm), 8-1-5, <https://rense.com/general67/sun.htm>

“give birth” to atoms that all life including us are made of [recalling Carl Sagan’s famous saying about us being “star stuff”⁵]. However, for the sake of scientific skepticism, I will answer this question with a - [6-tentative no].

7. Does the Sun have *nucleic acid as a hereditary molecule*? No. [7-no.]

8. Does the Sun *adapt*? Doesn’t look like it from where we stand. But the Sun is the major force in our part of the world. What exactly would it need to adapt to, being the giant ball of immense energy, unlike anything for millions of miles around it? Nevertheless, I will give our ‘small human-perspective’ answer. [8-no.]

9. Is the Sun made of one or more *cells*? Most would answer no. However, let us briefly consider other possible answers. One, that the Sun could be comprised of multiple parts, which we could call “cells”, each having a unique function. Two, that the Sun can be viewed as a single-cell organism. Some organic parts that make a biological cell, such as the nucleus, and the “power plants” [mitochondrions] can be compared analogically to parts of the Sun’s known inner layers. Yet even if the Sun is analogous to a single celled organism, is it a biological one? [9-no].

10. Does the Sun exhibit *complex organization*? The Sun has layers and different areas that have different attributes and behaviors, but can we consider this as something that is organized purposefully, and not purely and chaotically as a result of the laws of physics? In a reductionist way, we can claim that our own complex organization is just the result of the laws of physics and nature [although there is a clear blueprint for our design- in the form of DNA]. There are other natural phenomenon [mainly systems] that have complex formations and processes [such as the weather or the oceans and their tides], but are not biological living creatures. Nevertheless, the criteria does not state the need to exhibit complex *biological* organization. Does the sun exhibit complex organization? [10-yes].

⁵ Janek, Vanessa, “What Does It Mean To Be ‘Star Stuff’?”, Universetoday.com, December 22, 2014, <https://www.universetoday.com/117494/what-does-it-mean-to-be-star-stuff/>

11. Does the Sun exhibit *evolution by natural selection*? Since evolution operates at the species level, and we don't really "know" many other stars, or have been around long enough to know if stars have undergone changes over millions and billions of years, the 'correct' scientific answer would have to be –no. Notwithstanding, I suspect that in the future we might find out that many things do evolve, including celestial objects, stars and even physical forces and phenomenon such as gravity, speed... and time. [11-no].

Score: Yes-5 No-6. Is the Sun a biological living being- no.

But here is the kicker- when we ask if something is "Alive", we always refer to earthly *biological* life as we know it. This is clearly a very narrow point of view, considering the vastness of the physical universe [and the possible multiverse and different dimensions]. So can the Sun be alive, in another non-biological sense?

[Sheldrake's \[Sun-\] Light](#)

In "Is the Sun Conscious"⁶, Professor Rupert Sheldrake makes the case for the Sun, and other self-organizing systems, being conscious or aware. The scientific-philosophical origins of this idea can be traced to 'panpsychism', which holds the view that consciousness is a fundamental aspect of reality, and that it exists as a simple form in all basic self-organizing systems, such as atoms and single cells. It may sound far-fetched, but in a basic logical sense, this scientific worldview is wholesome [and straightforward- (Ockham's razor)] because it gives a continuous explanation and all-encompassing view of the nature of microscopic things and the nature of macroscopic things. Meaning, there is no need to define the nature of basic microscopic material [such as atoms] separately from the nature of larger, complex systems [such as living, conscious organisms]⁷.

⁶ Rupert Sheldrake, "Is the Sun Conscious", Journal of Consciousness Studies, 28, No. 3–4, 2021, pp. 8–28

⁷ Goff, Philip, "Panpsychism is crazy, but it's also most probably true", aeon.co, 1, March, 2017, <https://aeon.co/ideas/panpsychism-is-crazy-but-its-also-most-probably-true>

Sheldrake proposes that the electromagnetic field of the sun could be its so-called 'sense organ' that receives information from the world and reacts to it [much like the way our brains, nervous systems and electrically charged neurons operate]. Sheldrake mentions Matloff's amazing theory of "The Volitional Star"⁸. This theory can explain the lack of sufficient matter in the universe to hold things together, hence doing away with the current false and unproven paradigm of so-called "Dark Matter", and replacing it with a new paradigm, which I refer to as "[Sun-] Light Matter". Matloff suggests that living Stars can adjust their positions while moving thru galaxies, by firing their electromagnetic jets in certain directions, steering themselves into organized positions in relation to other stars and their positions relative to the center of the galaxy. Thus, the stars help to strengthen and balance the galactic structure. Matloff includes some scientifically testable predictions to his hypothesis [one of which is that the farther away the stars are from the center of the galaxy, the greater the number of electromagnetic jets they release] and makes logically sound points and conditions. I find this theory remarkable in many ways, as it paints a picture of a living, dynamic universe, using scientific and logical tools, to create a beautiful portrait of our world.

Sheldrake purposes that the Sun's electromagnetic activity could be "the principal interface between the physical activity of the sun and the solar mind"⁹. The Sun's conscious mind may activate or influence its sunspots, solar flares, coronal mass ejections, solar wind, and the energetic flow between the different regions of the Sun's surface layers and inner regions. In addition to the Sun being aware and influenced by its stellar neighbors, as well as the entire galaxy and universe as a whole, the Sun could receive a lot of information regarding its own solar system [or 'family']. The Sun [and like it, other stars (and celestial bodies) across the universe] can receive information regarding the activity of

⁸ Matloff, G. (2015) *Starlight, Starbright: Are Stars Conscious?*, New York: Curtis Press.

⁹ Rupert Sheldrake, "Is the Sun Conscious", *Journal of Consciousness Studies*, 28, No. 3-4, 2021, p. 21

the entire solar system thru its electromagnetic field, at the speed of light. Though even at that speed it would take almost 17 hours to receive information from the edges of our solar system [although I could suggest that due to physical mechanisms (not yet fully understood by human science) such as quantum entanglement, the flow of information could in theory be instantaneous].

The Sun's Energetic Cycles and Humans' Biological Cycles

The human being [as well as other living organisms] has various reoccurring biological cycles. The first one is the heartbeat [measured thru the arterial vascular system as the pulse], which is dualistic in nature and is comprised of two stages. 1- Diastolic [filling] - where the heart ventricles are relaxed and the valves are open to receive blood from the body. 2-Systolic [pumping], where ventricular contraction pushes blood to the pulmonary artery and the rest of the body¹⁰.

The second major bodily cycle is breathing. Breathing is also dualistic, and consists of two stages. 1- Inhaling [muscles in diaphragm and chest contract]. 2- Exhaling [muscles relax (although during physical activity abdominal and diaphragm muscles contribute to exhaling)]¹¹. Other human cycles consist of the digestive cycle, various hormonal and chemical cycles, and the grand cycle of birth-development-decline-death.

Similar to these biological cycles, the Sun [and other complex systems and entities] has its own cycles that correlate to the human, biological ones. Like the human pulse, which takes

¹⁰ Bailey, Regina. "The Cardiac Cycle." ThoughtCo. <https://www.thoughtco.com/phases-of-the-cardiac-cycle-anatomy-373240>

¹¹ Both the heartbeat and the breath can be interpreted as having three stages. Heart beat:

1. Diastolic 2.Systolic 3. Blood circulates throughout the body. Breath: 1. Inhalation 2. Exhalation-Relaxation and pushing of the air outside the body 3. A moment of relaxation and pause ["silence"].

one [earth] second, the Sun has cyclic processes of [(sub-) atomic] transformations of energy between different states [nuclear fusion], which are very fast processes, but due to the size and large mass of the Sun, take a significant amount of time. The second stage of this cycle consists of transferring of the produced energy thru the different inner layers of the Sun and towards the surface- the corona. This energy cycle can be likened to a pulse, beginning in the nuclear fusion at the Sun's interior, and ending in the pulsating of energy outwards to the corona and into outer space in the form of the solar wind. This transfer of magnetic energy to the surface creates sunspots, which in turn determine the length and intensity of the second type of cycle.

The second cycle of the Sun, which correlates to the biological cycle of breathing, takes 11 [to 12] years (but can sometimes vary from 7 to 17 years) and is also dualistic. It begins with the solar minimum when solar activity is at a low, and slowly gains energy and momentum ['inhalation'] until the climax of high activity at the solar maximum [the first moment of 'exhalation'], and the reversal of the Sun's magnetic field and poles. After the climax, the Sun's activity gradually fades back to the solar minimum¹². While the Sun's reoccurring ['automatic'] cycles might seem to discredit the idea that the Sun is consciousness or alive, we should remember that we too, as biological living creatures, have [much shorter] reoccurring ['automatic' or 'autonomous'] cycles, but we still have free will to act in and around these cycles.

Much like human biology that has larger cycles, so does the Sun. Modern science has discovered solar cycles ranging from 22 to 300 years ['century-scale cycles']¹³. These cycles can be measured by their relation to the number of sunspots, and show a significant

¹² This too can be interpreted as 3 phases: 5 years of 'inhalation' and increase in activity, 1 year of maximum activity- first push of 'exhalation', 5 years of decrease in activity and relaxation- continued 'exhalation'. Another possible interpretation is Tchijevsky's sunspot-social period interpretation of 3 years of rest, 2 years of increase, 3 years of maximum, and 3 years of decrease.

¹³ Ogurtsov, M., Nagovitsyn, Y., Kocharov, G. *et al.* Long-Period Cycles of the Sun's Activity Recorded in Direct Solar Data and Proxies. *Solar Physics* 211, 371–394 (2002). <https://doi.org/10.1023/A:1022411209257>

statistical correlation with changes in earth's climate. Grand Solar Maximum and Grand Solar Minimum are such types of cycles, consisting of relatively increased and decreased activity lasting from 30 years [The Dalton Minimum 1790-1820] to 150 years [Medieval Maximum 1100-1250]¹⁴. The latest Grand Solar Maximum [1950-2009] was an unusually strong one (although some claims have arisen that the sun spot count was faulty and thus this cycle was normal¹⁵), and some scientists believe that the Grand Solar Minimum, which we are entering now, will be uniquely weak and usher a new 'little ice age'¹⁶. In a biological sense, the colder climates brought about by Grand Solar Minimums poses an increased risk for pandemic flu outbreaks¹⁷ [Note that the pathogen of 2019 was not during such a minimum, and furthermore was not a natural occurrence]. Declines in Solar activity that define Grand Solar Minimums are correlated with historical plagues, pandemics, and the decline of empires and civilizations¹⁸.

Probably the largest solar cycle is the time it takes the Sun to make one rotation [orbit] around the center of our galaxy. This is called a galactic year and it takes about 225-250 million 'earth years' to complete. Surprisingly [or not] this time scale roughly coincides with Earth's large-scale biological eras [Paleozoic- about 260-290 million years, and the Mesozoic and Cenozoic combined- about 240-250 million years¹⁹]. Could this correlation

¹⁴ "What is a Grand Solar Minimum?", thegrandsolarminimum.com, <https://www.thegrandssolarminimum.com/>

¹⁵ "Corrected sunspot history suggests climate change not due to natural solar trends", astronomynow.com, 8 August 2015, <https://astronomynow.com/2015/08/08/corrected-sunspot-history-suggests-climate-change-not-due-to-natural-solar-trends/>

¹⁶ Kenneth Richard, "Modern Solar Grand Maximum Ends: 'Little Ice Age' Cooling Coming!", principia-scientific.com, April 11, 2017, <https://principia-scientific.com/modern-solar-grand-maximum-ends-little-ice-age-cooling-coming/>

¹⁷ Carlton, "This grand solar minimum increases the risk of a pandemic influenza outbreak". Grandsolarminimum.com, December 8, 2018, <https://grandsolarminimum.com/2018/12/08/increased-pandemic-influenza-risk/>

¹⁸ Martin Armstrong, "Solar Minimum The Fastest Decline in almost 10,000 Years", January 3, 2018, https://www.armstrongeconomics.com/history/ancient-economies/solar-minimum-the-fastest-decline-in-almost-10000-years/?_cf_chl_jschl_tk__=pmd_E7vcU3u2vjJhxM3frqZjddljov6MGtPlzjG9fl2bM8-1632723364-0-gqNtZGzNAnujcnBszQi9

¹⁹ Crick, R. E. and Robison, . Richard A.. "Paleozoic Era." Encyclopedia Britannica, Invalid Date. <https://www.britannica.com/science/Paleozoic-Era>.

hint at extreme changes that the Earth went thru due to changes in the Sun's activity and galactic position?

The relationship between the activity of the Sun and ancient catastrophes on Earth has been explored by authors and scientists such as Emanuel Velikovsky, Randall Carlson, and David Lucas²⁰. Weather phenomenon created mainly by the Sun are referred to as 'space weather', and the latest, most extreme space weather event, which affected earth, was the Carrington Event in 1859, caused by large coronal mass ejections²¹. Apart from the bright and beautiful aurorae seen across the globe, the event induced electrical currents in anything conductive, bringing down telegraph systems and spawning fires around their lines. Such an event is a cyclic regularity [about once a century], a potential technology terminator [and subsequent infrastructure destroyer], and currently we are long overdue for one²².

The Sun's Cyclic Activity Correlated to Human Behavior and Historical Events

It is a well-known fact that our Sun's activity greatly affects our planet's electromagnetic field, climate and living conditions. Due to the Sun's intense physical effects on our planet, atmosphere, and every aspect of our habitat, it is logical to conceive that the Sun's activity affects our human biology, physiology and thus our psychological and behavioral inclinations.

²⁰ David Lucas, "Solar Minimum cycles and historical events", (Panel Presentation, USA, 2019), <https://mds.marshall.edu/colaconf/2019/day1/26/>

²¹ Temporal and Spatial Evolution of the 1859 Storm
Hayakawa et al. 2019, Space Weather, DOI: 10.1029/2019SW002269

²² "Carrington Event". Cmeresearchinstitute.org, 2014, <http://cmeresearchinstitute.org/carrington-event/>

Could it be that increases and decreases in the Sun's activity [solar cycles] have had a significant effect on human actions throughout our history? Throughout human history, the cycle of activity of the Sun has coincided with cycles of illness, degradation, war and destruction in the human world. Could it be that besides the one-way overwhelming effect of the enormous energetic activity of the sun, there is also a dual feedback system, where human thoughts, intents, feelings and moral/ethical growth or decline emanates some energetic form of information that reaches the Sun?

Ancient Hindu texts describe the concept of the Yuga Cycle, which lasts 12,000 'divine years', and coincides with humanity's general moral and physical states²³. As the Yuga Cycle progresses, humanity decreases in virtue and morals, until close to the end, cataclysms occur that 'reset' the progress and bring about a new cycle. There are various modern interpretations of this ancient idea. In his book "The Holy Science"²⁴, Swami Sri Yukteswar, introduces the idea that our sun has a companion star, which it rotates around, completing an orbit in a period of 24,000 years, equaling one Yuga Cycle. Could it be that this 24,000-year cycle is dualistic as well, and consists of a 12,000 cycle of 'inhalation' followed by a 12,000 cycle of 'exhalation'? This 12,000 year re-occurring cycle of the Sun coincides with the flipping of earth's magnetic poles [magnetic excursion], which have been shown historically to coincide with cataclysmic extinction events and extreme changes in Earth's environment, such as the 'Younger Dryas'²⁵.

Solar activity affects human activity and solar cycles affect human societies' cycles. There are theories that claim to show a correlation between solar cycles and human financial market cycles, and that more often than not, sunspot maximums are followed by financial

²³ Wikipedia contributors, "Yuga Cycle," *Wikipedia, The Free Encyclopedia*, https://en.wikipedia.org/w/index.php?title=Yuga_Cycle&oldid=1046208709

²⁴ Swami Sri Yukteswar, "The Holy Science" (Martino Fine Books, 2003).

²⁵ "The True Great Reset: Magnetic Pole Shift and Solar Minimum", [strangesounds.org](https://strangesounds.org/2021/02/great-reset-magnetic-pole-shift-and-solar-minimum.html), February 23, 2021, <https://strangesounds.org/2021/02/great-reset-magnetic-pole-shift-and-solar-minimum.html>

depressions or recessions²⁶. One of the prominent researchers that developed theories about the influence of the Sun and other natural phenomena on human society and (financial) activity was Edward Dewey²⁷. There have been some other attempts to theorize on this matter, while the most prominent researcher that demonstrated the important contributing factor of solar activity to human activities was a Russian Professor of Astronomy and Biological Physics named Alexander Tchijevsky.

In his breakthrough 1926 paper, Tchijevsky wrote that the Sun's energetic activity influences the potential of the earth's atmospheric electricity, and the fluctuations of our atmosphere are felt by the human nervous system, especially if they are sensitive, sometimes causing a "change of humor" in people with no evident cause²⁸. Tchijevsky claimed that the waves and particles, which constantly enter and interact with our planet, have cycles and rhythms that we are not conscious of, but that affect the cycles and rhythm of our lives. Our blood flows with the "veins of the cosmos", and our heart beats with "the pulse of the cosmos."²⁹ These ideas have since been studied and confirmed by scientists and researchers such as Suitbert Ertel³⁰, who showed that bursts of creativity correlate with increases in solar activity³¹, and by 21st century studies³².

Tchijevsky went on to examine the correlation between the Sun's cyclic activity and human history, researching 72 countries, from 500 BC to 1922 AD. He found that 80% of

²⁶ "Solar Cycles: How the Markets Turn", worldcyclesinstitute.com, March 8, 2020, <https://worldcyclesinstitute.com/solar-cycles-how-the-markets-turn/>

²⁷ Edward R. Dewey, "Cycles: The Mysterious Forces that Trigger Events", Hawthorn, 1971.

²⁸ Alexander Tchijevsky, "physical factors of historical process", 1926, Translated by Vladimir P. de Smitt, Cycles 1971: 22 pp. 11--27. First sketch published in 1924 In Russia.

²⁹ George M. Young, "Do Solar Storms Influence Our Behavior?", huffpost.com, Feb 2, 2013, https://www.huffpost.com/entry/solar-storms-behavior_b_2220034

³⁰ Ertel, Suitbert. (1996). Space weather and revolutions chizevsky's heliobiological claim scrutinized. 38. 3-22.

³¹ Ertel, Suitbert. (1998). [Cosmophysical correlation of creative activity in the history of culture]. Biofizika. 43. 736-41.

³² Ozheredov, V.A., Breus, T.K. & Zeleny, L.M. Connection between the Intellectual Excitability of Internet Users and Increases in Solar Activity. *Izv. Atmos. Ocean. Phys.* 56, 1346–1358 (2020). <https://doi.org/10.1134/S0001433820110067>

the most significant (violent) historical events occurred in proximity of about 5 years to the solar maximum, and that in each century there are 9 instances of major rises in political and military activity, coinciding with the Sun's 11 year-cycles of activity³³. Tchijevsky noted that the Russian Communist Revolution also occurred during the peak of a sunspot cycle. This great innovator's "wrong-think" scientific theory contained too much free thought and creativity for the soviet communists to bear, and indirectly implied that there were natural forces other than the communists' economic philosophy that propelled the Soviet revolution. So much so, that instead of receiving a prize for his innovations, the Russian Communist regime made Tchijevsky pay a price for his groundbreaking theory, by sending him to a Soviet Gulag for 8 years.

Tchijevsky divided the eleven-year solar cycle into four periods:

Period 1: ~3 years of minimum sunspot activity. Relative peace, election of conservatives.

Period 2: ~2 years of increasing sunspot activity. Increasing human excitability, new leaders and ideas.

Period 3: ~3 years of maximum sunspot activity. Maximum excitability that brings about election of radicals, demonstrations and riots, revolutions and wars.

Period 4: ~3 years of decreasing sunspot activity. Decrease in excitability and humanity seeking peace³⁴.

Furthermore, the brilliant scientist and gulag survivor observed that increases in the intensity of war and conflicts often coincide with increased Sun activity. He noticed that during WWII, "the appearance of large sunspots was immediately followed by increased activities on different battle fronts simultaneously."³⁵ Tchijevsky showed that turning-

³³ Ibid.

³⁴ Carol Moore, "SUNSPOT CYCLES AND ACTIVIST STRATEGY", carolmoore.net, January 2011, <https://www.carolmoore.net/articles/sunspot-cycle.html#Evidence>

³⁵ Alexander Tchijevsky, "physical factors of historical process", 1926, Translated by Vladimir P. de Smitt, Cycles 1971, p.21

points in human history, such as the discovery of America, the French, Russian and other revolutions, often occur during peak solar activity- solar maximums.

Some historical events that occurred during solar maximums are:

1789: Adoption of the US Constitution.

1848-1851: Beginning of the US-Mexican war. Revolts and revolutions in Taiping, Paris, Milan, Switzerland, Poland, Berlin, Vienna, Naples, Venice, Prague, Budapest and Warsaw.

1861-1865: Civil War in America. Revolts in China, India and Italy.

1914-1918: WWI.

1936-1939: Beginning of WWII. Spanish Civil War.

1948: Israel's Independence War. Ghandi assassinated.

1950-1953: Korean War.

1957: Beginning of the Vietnam War.

1968: Martin Luther King and Robert Kennedy assassinated. Beginning of anti-war protests, and first inner city riots in the US.

1980: Beginning of the Iran-Iraq War.

1981: Egyptian President Saadat assassinated.

1982: First Israel-Lebanon war. Falklands War.

1987-88: Beginning of first Palestinian Intifada in Israel.

1989: Tiananmen Square student protest in China is violently crushed by the CCP.

1991: The Gulf War. The Balkan Civil War begins with the collapse of Yugoslavia.

2000: Beginning of the second Palestinian Intifada in Israel. Dot-Com bubble bursts.

Supreme courts settles Bush v. Gore election dispute in the US.

2001: 9/11 Attack on World Trade Center. Beginning of "War on Terror".

And many more.

This does not have to be a pessimistic prophecy of doom. As Tchijevsky notes, increases in the Sun's activity "favors the excitability and uniting of the masses for attaining a certain general necessity", meaning the Sun is a driving force, but where we go or drive to, is still up to us. Are we reacting in some way to the Sun's energy, or is the Sun reacting to ours? I would argue that probably both, but the Sun is the leader in this dance. Our free will chooses the direction, and the Sun adds the flame [energy] to go there. History knows many good examples of the force of solar maximums, which drove positive events, such as growing human rights and democracy, engineering projects and reforms. It is our hope that "the culture of future generations will find ways to a humanitarian use of the mass upheaval"³⁶ [of solar maximums].

As the human race races toward the peak of its activity, towards a negative climax of degradation, corruption and conflict, our Sun will be gearing towards its solar maximum [~July 2025], and perhaps an end to a much longer cycle. Maybe if the "power-elite" would be aware of this upcoming possibility, they would lessen their preoccupation with finances, and strategies of divide and conquer, and instead try to unify all human beings' efforts in order to save what we can from the coming catastrophe. Perhaps this upcoming maximum will mark a climax and will cause much upheaval, yet perhaps some of us will witness the miracle of the parting of the [red] sea, which will pave the way back to our freedom.

The Sun as a Metaphysical Symbolic Entity

Is the Sun alive or conscious? Maybe neither or maybe both. Or perhaps the Sun is an entity, for which we do not yet have a word or definition. Based on my personal spiritual

³⁶ Ibid. p.23

experience, I came to understand that the Sun is the physical symbolic representation of the highest entity- the source- the creator.

Our physical world [this dimension] can be seen as [or is] a symbolic manifestation of a 'higher' spiritual dimension [somewhat similar to the holographic universe concept, but in a multi-dimensional, metaphysical way]. Another way to explain it is to try to build on Plato's idea of the 'receptacle'³⁷. Perhaps the Sun is like a receptacle– absorbing energetic [or spiritual] information and constantly releasing similar 'information'.

Light is the most 'non-physical' ['light' - weightless material] spiritual form of energy we can relate to in this physical universe. This idea 'holds scientific weight' because photons, which are the 'building blocks' of light, have no mass³⁸. Therefore, in a way, pure light is like a gateway to the spiritual realm and the symbolic manifestation of the good and holy³⁹. Perhaps in the spiritual realm there are spiritual energetic [non-physical] forms that emanate [non-physical] spiritual light. The spiritual light goes thru the receptacle-or receptacles, which are manifested on 'our side/dimension' as stars, 'white holes', and other cosmic phenomenon. The spiritual light is then translated into 'photon-based' light that we can relate to.

Ideas, basic concepts and forms from the higher realm are translated [mathematically?] to the language [the code-or coding language] of this physical dimension. Higher forms or ideals, such as Justice, Freedom, Joy, and Willpower are manifested as energetic or physical forces in our world. Perhaps the Sun is one of the major vessels or receptacles for this transformation and manifestation. Truth, which is the basic, foundational ideal and form, is perhaps translated into physical forces such as gravity, and is the 'building block' of time and causality.

³⁷ Cornford, F.M., "Plato's Cosmology| The Timaeus of Plato", Routledge, (1937)

³⁸ Lee Johnson, "Do Photons Have Mass?", sciencing.com, 2.11.2020, <https://sciencing.com/do-photons-have-mass-13710229.html>

³⁹ Rabbi Kook, "The sacred lights", 1950

הרב קוק, "אורות הקודש", 1950

Different physical beings, organisms or structures are possibly a combination of different spiritual forms. The innate, primal nature of a being represents the nature of the combination of higher forms-values-spiritual energies, which are translated into our reality from a higher realm. The basic physical nature of things, such as the chemical and physical forces that create and uphold basic harmonious forms, atoms and basic elements [water, gas, heat, etc.] that strive for equilibrium, plants/animals that strive for resources [sunlight/water] and those that develop from a single source [seed/egg], the use of mechanisms of replication thru imitation [fractals], reciprocal cooperation and unification [organisms that develop from a dual source (egg and sperm)], and similar basic concepts of development and harmony, are symbolic translations of the nature of higher spiritual ideals-forms. Furthermore, the feelings that living beings experience, which correspond to these basic natural forces, such as harmony, needing-willing-wanting, growth and achievement, attraction and connection on all kinds of depths and levels, are manifestations and the universe's expression of the higher spiritual forms.

And when we look, briefly and cautiously at the Sun (during sunrise or sunset), and are forced to look away with awe, we could be looking at the physical, symbolic translation and manifestation of the eternal, life & warmth-giving, source of our existence- the creator. Known by different names, where the most ancient, esoteric and Truthful of these are those words that are meant to symbolize the higher ideals-forms-energies of – Truth, Free-Will, and of the highest one that binds and contains them all– Love⁴⁰.

5.10.2021

⁴⁰ Not the superficial, egotistic, materialistic kind, advertised in popular modern culture, but the deeper, caring (and self-sacrificing), compassionate, spiritual, ultimately unifying, true source of all...