

Ettinger Journals

Problems with the Saturn Myth's Polar Configuration

Replacing the Proto-Planet Saturn Idea with an Orbiting
Brown Dwarf Star

Douglas B. Ettinger
Written 12/30/2014
Published 5/1/2017

Problems with the Saturn Myth's Polar Configuration

I. Table of Contents

I.	Table of Contents.....	1
II.	Introduction.....	2
III.	Objections to the Source of Earth, Mars, and Venus.....	3
IV.	Stability and Habitability Issues with the Saturn Train.....	3
V.	Earth as an Electric Comet.....	5
VI.	The Thermal Inertia of Earth is Not Enough.....	6
VII.	Tide-generating Forces.....	7
VIII.	Collaborating Criticisms.....	9
IX.	Models with Scientific Basis to Replace the Polar Configuration.....	10
	A. An Existing Brown Dwarf.....	11
	B. Combining Ideas to Address the Epoch of Myths.....	11
X.	An Excuse to Avoid New Modeling.....	12
XI.	Conclusion.....	13
XII.	Major References.....	14

II. Introduction

A combined group of scientists and comparative mythologists have created The Thunderbolts Project under the leadership of David Talbott and Wal Thornhill. The project basically addresses the “Electric Universe” (EU) and a very unique and controversial theory of the Saturnian Polar Configuration. The comparative mythology put forth by David Talbott is very thorough and convincing for supporting this past solar system configuration. However, the author of this article has serious difficulties making any sense of how the laws of physics and planetary science can be applied to this past configuration which is supposedly in the memory of ancient peoples. I fully support these portrayed myths by Talbott that describe the ancient skies as recorded in rock art, stone friezes and texts of ancient civilizations. My personal problem is that these well analyzed myths cannot support the polar configuration which Talbott confidently professes. This article will list the more obvious objections to this idea, but will then suggest other solar system configurations that make more sense from a purely scientific basis. One needs to connect all the dots to achieve a comprehensive hypothesis. Talbott’s enlightening analysis of myths based on observations of the ancient skies can only be seriously accepted if it is applied correctly to a plausible model with some modest scientific basis.

The website www.maverickscience.com provides a concise summary of the Saturn myth and states, “The Saturn theory offers a radically different approach to understanding the recent history of the solar system. Briefly summarized, the theory posits that the neighboring planets only recently settled into their current orbits, the Earth formerly being involved in a unique planetary configuration of sorts together with Saturn, Venus, and Mars. As the terrestrial sky watcher looked upwards, he saw a spectacular and awe-inspiring apparition dominating the celestial landscape. At the heart of heaven the massive gas giant Saturn appeared fixed atop the North polar axis, with Venus and Mars set within its center like two concentric orbs.” In other words, the planet Saturn is leading a train of other celestial bodies, namely Venus, then Mars, and finally Earth. Saturn and its train was either originally orbiting the Sun near its current orbit or it was captured recently well within several 100,000 to several 10,000 years ago.

According to The Thunderbolts Project group, Saturn was originally a brown or red dwarf star that had subsequent charge imbalances. These imbalances were due to an anodic body, Saturn, captured inside the heliosphere of another large anodic body, the Sun. These imbalances eventually caused Saturn to emit charged cathode-type bodies at various times to achieve charge equilibrium. These cathode bodies were, of course, Mars and Earth. Venus was emitted much later; the thought is that Venus is much younger due to its CO₂ atmosphere and much hotter surface. Saturn’s current regular moons were also, supposedly, created this way. Part of this growing hypothesis is that Titan was very recently emitted and therefore still has a methane atmosphere that should have dispersed if the body was of similar age as Saturn’s other accompaniments.

III. Objections to the Source of Earth, Mars, and Venus

The book, *The Electric Universe*, which is embraced by The Thunderbolts Project group, explains how this scenario may be possible. However, there is no observable or experimental laboratory evidence to back this idea. Originally, The Thunderbolts Project group conceived that these planets were ejected from Saturn's polar region to directly create the train of bodies. This idea gained some momentum from the knowledge of observing mass ejections from proto-stars to create Herbig-Haro objects. However, at a recent Thunderbolts workshop this planetary ejection idea has shifted to having the planets emitted from Saturn's equatorial regions. The planets then orbited Saturn near its equatorial plane until a combination of disturbances pulled them into a train of bodies following Saturn's orbital path. These disturbances were either: 1) created by the loss of charge and/or mass of Saturn as it was converted from a dwarf star to a gas giant; or 2) caused by the gravitational and electromagnetic forces of a close encounter with planet Jupiter.

Either model has major problems. No explanation is offered as to how these polar planets achieve rotational velocities or how they achieve interim orbital velocities or what combination of forces would pull them from equatorial orbits into trajectories following their parent body. Where is the source for angular momentum needed for spins and orbits, and where is the logic for creating aligned angular vectors? The Electric Universe poses the idea that electromagnetic (EM) forces predominate over gravitational forces, so that unimaginable and different models can still be created. Perhaps some experimental laboratory testing can also come to the rescue.

Another huge problem for the emission of planet-like bodies from a proto-red or brown dwarf is the obvious rejection of a very accepted model called stellar nucleosynthesis. *The Electric Universe* proposes that fusion of hydrogen inside a star is very questionable. The authors of *The Electric Universe* claim that fusion reactions occur in the very hot corona of a star and not in the central core of a star; this may be a very possible reality, but I do not yet rule out fusion occurring inside stars, especially the very massive ones. However, neither model helps explain the creation of a fully constituted rocky terrestrial planet coming from inside the core of Saturn. How does such a planet achieve an iron core, a very large proportion of rocky materials, and a capacity to retain some volatiles such as nitrogen, water, methane and carbon dioxide? The standard model of stellar nucleosynthesis is totally jettisoned. The standard model of the nebular hypothesis is also quashed. I cannot accept the nebular hypothesis for star system formation, but then what replaces it in *The Electric Universe's* scheme? Presently, The Thunderbolts Project group has no scheme.

IV. Stability and Habitability Issues with the Saturn Train

Let's say that we ride over the bumpy road of previous objections and arrive safely with our model of Saturn's polar configuration still intact. At this point, David Talbott believes all of life evolves on planet Earth, including mankind and his ancient civilizations. An appreciation of Earth's history timeline is required. Obviously, if one is to believe in the fossil history, geological, genetic and radiometric dating of the Earth, then a stable period of many, many millions of years is required. In fact, Talbott requires a fairly stable period for the creation of a universal memory of an ancestral Golden Age of mankind's past, inaugurating the age of the Gods. The Gods are the planets that react in strange and sometimes

catastrophic ways. Talbott is never clear what causes these catastrophic ways, but knows these ways are depicted by the changing rock art and the stone reliefs and texts of ancient artifacts.

So how can this long period of stability be accomplished that needs sunlight and sufficient radiation to warm the planet? This requirement must come from the proto-dwarf, Saturn, and its corona sheath. Is this protective corona sheath really possible even from an EM perspective? From a recent Thunderbolts workshop in 2014, the best conjecture for the cosmic wheel archetype or Saturn's disk in the Earth's sky is 20 to 30 degrees of arc with Venus and Mars centered inside this disk. Saturn's appearance in the sky compares with the present Moon's one half degree of arc. If the 30-degree arc is compared with the one-half degree, then the distance between Saturn and Earth is computed with:

$$2 R_1 / d_1 \times 60 = 2 R_2 / d_2$$

where the factor 60 comes from the ratio, $30^\circ / \frac{1}{2}^\circ = 60$, and the disk radii for the Moon and Saturn and the Moon's distance are used. Then:

$$d_2 = (384,000 \text{ km} / 60) \times (116,464 \text{ km} / 3474 \text{ km})$$

$$d_2 = 215,000 \text{ km}$$

If the typical appearance of the Martian disk and the Venetian disk that are concentric inside the Saturn disk are used, then their ratios are computed to produce about eight arc degrees for Venus and six arc degrees for Mars. Then their distances from Earth are computed in the same way as for Saturn.

$$d_{\text{venus}} = (384,000 \text{ km} / (8/0.5)) \times (2 \times 6052 \text{ km} / 3474 \text{ km})$$

$$d_{\text{venus}} = 83,625 \text{ km}$$

$$d_{\text{mars}} = (384,000 \text{ km} / (6/0.5)) \times (2 \times 3390 \text{ km} / 3474 \text{ km})$$

$$d_{\text{mars}} = 62,450 \text{ km}$$

Mars is computed to be precariously close to Venus at 21,175 km. Perhaps their closeness created high energized arcing thereby creating the appearance of the spokes and wavy rays emanating from Venus inside the cosmic wheel. For comparison, the distances of the regular moons from present day Saturn are given: Mimas at 185,500 km, Enceladus at 237,948 km, and Titan at 1,222,000 km. Saturn's proto-planet parameters compared to these satellites appear to be too close and too massive to achieve long-lived stability unless perhaps EM forces came into the play.

Please be reminded that there is no observable train of celestial bodies within the solar system or with exo-solar planets or with multi-star systems. Only under very special conditions could such a train as proposed by Talbott exist. Very little is known about brown and red dwarf stars except that some red dwarfs are revealed to be highly unstable with flaring. Typical atmospheres of known brown dwarfs range in temperature from 2200 K down to 750 K as predicted in Wikipedia. Compared to stars, which warm themselves with steady internal fusion, brown dwarfs cool quickly over time; more massive dwarfs cool slower than less massive ones. Red dwarf stars are measured as high as 3600 K. These temperatures are certainly warm enough if they can be maintained for millions of years. Size and temperature of corona sheaths of these stars can only be guessed. Could the corona sheath of proto-

dwarf star, Saturn, reach as far as 215,000 km where Earth resided with its pole oriented roughly in alignment with the other two planets? Or, was the direct radiation from Saturn sufficient to warm Earth with a possible frozen South Pole? Or, was the tilt of the Earth sufficient to provide much of the warming of the southern latitudes? Astrophysicists need more complete data for brown dwarf stars before any of these questions can be remotely answered. And, do not forget, the very glaring assumption that Saturn was originally a dwarf star. Perhaps the outer gas giants are captured dwarf stars; this idea should not be ruled out. However, the current standard modeling for red and brown dwarf stars definitely does not include any scenario that Talbott postulates with Saturn.

Another fly in the ointment are the tilts of the spin axes. The Thunderbolts Project assumes that there is a direct connection between Saturn's tilt of 29° and the inclination of equators of Mars and Earth which are comparable at 23.98° and 23.44° respectively. Since the planets were expelled from Saturn's equator they simply retained similar tilt angles as their parent. But, Venus has a disagreeable tilt of only 3.4°. Also, planetary scientists claim that Earth's orbiting Moon is required to stabilize Earth's spin axis tilt. So how did Earth's tilt manage to remain stable all those years when it was following Saturn in a train?

Now it is time to end the Golden Age of comfort and plenty for mankind and break-up the train of planets trailing Saturn. Now, according to the *Saturn Myth* by David Talbott, the planets are affected by: 1) loss of charge differential between Saturn and its husky children; 2) loss of too much mass from Saturn thereby affecting both gravitational and EM forces; 3) perturbations between Saturn's train and the other outer planets, especially the very massive Jupiter; and 4) the possible build-up of charge on each planet causing them to repulse each other. The planets now fall inward toward Jupiter and eventually toward the Sun to find new orbits which are their current ones.

Now the storyline really becomes incredible. According to Talbott, if mankind recorded the ancient sky as it appeared when Earth was riding along with Saturn, then most certainly mankind (that's us) survived the trip on spaceship Earth between Saturn's current orbital distance of 9.5 AU to Earth's current orbital distance of one AU. Wow, what a ride! Let's discuss some of the more important issues of this unbelievable event. Let us not yet judge.

V. Earth as an Electric Comet

My good buddy of old, Isaac Azimov, would have great fun writing a science fiction story about this spaceship ride. He would certainly find some scientific angles for surviving this trip. I suspect even Azimov would require some goodly amount of time for the Earth astronauts to prepare for such a trip. Are you wondering whether our ancient Sumerians, Babylonians, Indians, Incas, Egyptians, etc., had even suspected this pending revelation in order to prepare?

In the book, *The Electric Universe*, excellent discussions reveal new thinking about the "Electric Sun" and "Electric Comets". The Sun is a giant charged anode, collecting electrons and atomic nuclei from the Birkeland currents of our galaxy. Our star then emits both positive ions and negative electrons within its heliosphere sheath to maintain equilibrium. The bodies inside this sheath are essentially negative cathodes that repulse the electrons and gather ions within the solar wind mostly through the polar

aurora regions. These bodies can be planets or asteroids. For the larger planets, protective sheaths are created especially if a magnetic field also exists. Smaller bodies such as asteroids do not have protective sheaths and no polarized magnetic field. If an asteroid is somehow forced into an elliptical orbit it crosses a huge voltage potential between the Sun and its heliosphere. The asteroid as it nears the Sun and its increased density of electrons begins to discharge energy via glow-arcing that creates jets, comas, and giant tails. I tend to agree with The Thunderbolts Project's or *The Electric Universe's* assessment that huge electric currents can be generated with low density dark plasma surrounding the Sun and can dominate gravitational forces in various ways.

And, herein lays a problem for the displaced Earth moving around the Sun in an initially highly eccentric, spiraling orbit, crossing through a huge solar system voltage potential. If you believe *The Electric Universe* concepts, the Earth moving inward will have a huge imbalance of charge which will start resisting the ever-increasing density of negative charge of the solar wind. Severe glow-arcing and huge jets of materials are suspected, similar to what happens when an asteroid becomes a comet except the scale will be much larger. Any inhabitants living on such a body are always at risk of being either electrocuted or literally blown off the planet. If you still do not understand this argument watch some NASA videos of the jetting on comets. Or, review the Martian topography that reveals past severe arc sputtering of its surface. Hopefully, the Earth's magnetosphere would be strong enough to concentrate the electrical currents and most of the arcing at the poles.

VI. The Thermal Inertia of Earth is Not Enough

We now consider the frigid cold that exists in interplanetary space between Saturn's and Earth's existing orbits. The Earth must rely on its own heat sink for this journey since the warmth of Saturn's heat output is no longer available. A time for this journey is estimated to be about 25 years based on Saturn's current orbital period of 29 years. It is assumed that the Earth in its polar configuration was evenly heated by Saturn with no seasons, no polar ice caps, and much more liquid water. Hence, its oceanic heat content (OHC) should have been considerably larger than today's. The present OHC is currently 23×10^{22} joules and represents 90% of the energy accumulation. The other 10% is due to land, atmosphere, and ice heating. Global energy currently produces an average ocean temperature of 16.1 °C (60.9 °F). If 20% more energy is factored into the total due to the additional heat received from the closeness of the brown dwarf, Saturn, and totally melted ice caps, then the total heat content of Earth before starting its journey is:

$$\text{Total heat content (THC)} = 1.2 \times [(23 + 2.3) \times 10^{22}] = 30.4 \times 10^{22} \text{ joules}$$

Mars is currently 1.52 times as far from the Sun as Earth resulting in 43% of the sunlight received by Earth. Saturn's orbit is 9.55 times as far. Incident sunlight received at Saturn's current orbit as a percentage of what Earth receives is:

$$(1.52 / 9.55) \times 43\% = 6.8\%$$

Utilizing a very simplified calculation, thereby avoiding calculus, the *average* incident sunlight received by Earth during its entire journey between orbits can be calculated by using the average incident sunlight received on the journey as a percentage of Earth's current incident sunlight:

$$(100\% - 6.8\%) / 2 = 46.6\%$$

The total solar radiation received by Earth today is 340 Watts/meter². The same heat budget of today is assumed for when Earth made its orbital transfer except for the total solar radiation received. That is, 29% is reflected solar radiation and 71% is outgoing heat radiation. The geothermal heat influx is determined as 0.027% of Earth's total energy budget at the surface and is conveniently neglected. The average heat budget received by Earth during its journey between orbits is:

$$0.466 \times 340 \text{ W/m}^2 = 158 \text{ W/m}^2$$

The total received solar radiation *loss* during the journey is $340 - 158 = 182 \text{ W/m}^2$

The surface area of the Earth is $5.1 \times 10^{14} \text{ m}^2$. The current land segments = $149 \times 10^6 \text{ km}^2$ and the water segments = $361 \times 10^6 \text{ km}^2$. Since the water segments should have been larger when Earth was in the warm embrace of Saturn, the water segments are increased conservatively to $400 \times 10^6 \text{ km}^2$. The new ratio of water segments to land segments is $400 / (361 + 149) = 0.78$

If the assumed journey took about 25 years = 7.9×10^8 seconds, and 1 Watt = 1 joule /sec, then the total heat content lost by Earth on the journey is shown by:

$$\text{Total lost joules} = (182 \text{ W/m}^2) \times (0.78 \times 5.1 \times 10^{14} \text{ m}^2) \times (\text{joule}/1 \text{ watt-sec}) \times (7.9 \times 10^8 \text{ sec}) = 57.2 \times 10^{24} \text{ joules} \gg 30.4 \times 10^{22} \text{ joules for beginning heat content.}$$

The conclusion from this admittedly over-simplified calculation does produce a plausible argument that the Earth's thermal inertia of its oceans and atmosphere was not enough to stop the entire surface from being frozen rock-hard even in a short time period of 25 years. The temperature of any planet's surface is definitely sensitive to its distance from any star's heat source.

VII. Tide-generating Forces

The worst issue for any of Earth's inhabitants' survival is saved for last. This last horror is the resulting radically changing tidal forces generated as Earth leaves the gravitational field of three aligned planets and then re-enters the severe gravitational field of the Moon before synchronization of their orbits occurs. The combined gravitational forces of Mars, Venus, and Saturn exerted on Earth's northern latitudes are canceled as Earth leaves the scene. This almost immediate cancellation will cause severe disruptions of the crustal plates causing earthquakes, landslides, volcanic action, and dust-laden atmosphere. Due to the upheaval and/or collapse of crustal surfaces, the seas and lakes will be quickly displaced causing immense global flooding.

When the falling Earth eventually finds a new orbit, it needs to share it with the Moon which already resides in this orbit. According to modeling and calculations presented in "Earth's Metamorphosis

(EMM) Hypothesis” from the website www.ettingerJournals.com presented several years ago, the Moon needs to be within about 90,000 km of Earth. The Earth’s initial capture and trajectory will require rounding its elliptical path and slowing its velocity to match the Moon’s. The exchange of angular momentum then pushes away the Moon close to its present position while slowing the Earth on thousands of orbital passes. Of course, the Moon, being the less massive body, becomes tidally locked to Earth. While this process is occurring, Earth’s tide-generating forces will be larger by a factor of 100 times the current forces. Giant tsunamis will be occurring every day.

Some calculations are performed to show the effect of tide-generating forces.

$$\text{Proportional Tide-generating Force} = F = \alpha (\text{Mass}) / (\text{Distance})^3$$

For the Moon at 384,000 km (mean distance from Earth):

$$\begin{aligned} F_{\text{moon normal}} &= \alpha (7.35 \times 10^{22} \text{ kg}) / (384,000 \text{ km})^3 \\ &= \alpha (1.3 \times 10^6) \end{aligned}$$

For the Sun at its mean distance from Earth:

$$\begin{aligned} F_{\text{Sun normal}} &= \alpha (1.99 \times 10^{30} \text{ kg}) / (384,000 \text{ km})^3 \\ &= \alpha (0.62 \times 10^6) \end{aligned}$$

The combined forces of both the Sun and Moon aligned:

$$F_{\text{combined}} = \alpha (1.3 + 0.62) \times 10^6 = \alpha (1.9 \times 10^6)$$

The Moon at 90,000 km (during initial synchrony of Earth and Moon orbits):

$$\begin{aligned} F_{\text{moon initial}} &= \alpha (7.35 \times 10^{22} \text{ kg}) / (90,000 \text{ km})^3 \\ &= \alpha (100 \times 10^6) \approx 100 \text{ times } F_{\text{combined}} \end{aligned}$$

Now let’s consider the Saturn polar configuration with the following three tide-generating forces of each of three planets being directly additive.

For Mars at 62,450 km from Earth in the Saturn train as previously determined:

$$\begin{aligned} F_{\text{Mars}} &= \alpha (6.42 \times 10^{23} \text{ kg}) / (62,450 \text{ km})^3 \\ &= \alpha (0.26 \times 10^{10}) \end{aligned}$$

For Venus, next in line at 83,625 km from Earth in the Saturn train as previously determined:

$$\begin{aligned} F_{\text{Venus}} &= \alpha (4.87 \times 10^{24} \text{ kg}) / (83,625 \text{ km})^3 \\ &= \alpha (0.80 \times 10^{10}) \end{aligned}$$

And, finally for Saturn at 215,000 km from Earth and assuming the same mass as today and a presentation in the sky of 30 degrees of arc:

$$F_{\text{Saturn}} = \alpha (5.68 \times 10^{26} \text{ kg}) / (215,000 \text{ km})^3 \\ = \alpha (5.72 \times 10^{10})$$

The combined forces of these three planets creating a tidal acceleration on Earth's surface when in the Saturn train is:

$$F_{\text{Mars}} + F_{\text{Venus}} + F_{\text{Saturn}} = \alpha (6.8 \times 10^{10})$$

These combined tide-generating force is so huge, that its effect should create a slightly egg-shaped Earth. This combined tide-generating force is comparable to $F_{\text{Io}} = \alpha (1.898 \times 10^{27} \text{ kg}) / (420,000 \text{ km})^3 = \alpha (2.6 \times 10^{10}) \text{ kg/km}^3$, the tide-generating force on the surface of Jupiter's moon, Io. And, if the spin axis were tilted, then the oceans would continually wash over any continental land masses. This polar configuration of the four planets seems highly improbable; and life forms like mammals would be impossible.

VIII. Collaborating Criticisms

All these issues tend to converge with other criticisms about David Talbott's book, *The Saturn Myth* (1980). In general, mainstream reviewers of this book were not impressed. Scientists are no more likely to accept this cosmic scenario than they did with Velikovsky's planetary collisions. If the Thunderbolts Project group does not worry about providing a reasonable physical explanation to account for the gyrations that are required of Saturn, then how can planetary scientists take this Polar Configuration seriously? A noted catastrophism theorist, Milton Zysman, is quoted as saying, "Planetarily reconstructed myth in which Saturn is situated at the Earth's north celestial pole [...] seems quite preposterously at odds with gravitation." I will take a few more pains in listing some other important reviewers' comments of *The Saturn Myth*:

1. Roger Ashton concluded it was contradicted by constraints imposed by celestial mechanics, ecological continuity and the survival of flora and fauna which would not have endured the conditions implied by the model.¹
2. Lynn Rose found the model deficient on the grounds of "nomenclature, stability, myth, and transference".²
3. Peter James explained that the model made no attempt to account for several well-attested, global environmental crises in the Holocene while the "one major event within the memory of the human race - the break-up of proto-Saturn . . . was apparently so gentle that it is not conspicuous enough in the archaeological or geological records to yet be confidently identified."³

¹ Ashton, Roger (1988). "The Unworkable Polar Saturn". *Aeon* 1 (3), 39-55.

² Rose, Lynn E. (2000). "[Sirius and Saturn](#)". *Chronology & Catastrophism Review*, 2000(1), pp. 60-65.

³ James, Peter J. (2000). "[The Saturn Problem](#)". *Chronology & Catastrophism Review*, 2000 (1), 97-107.

I am strongly suggesting that The Thunderbolts Project group either abandon the Saturn theory and Polar Configuration or at least begin to incorporate other possible versions of the application of David Talbott's most important recent works, "Symbols of an Alien Sky" and *Thunderbolts of the Gods* (2005). I am convinced that these symbols were witnessed by ancient peoples and have definite meaning in the celestial realm. It is difficult to let go of one's first published book, *The Saturn Myth*, but science must march forward. I personally had to let go of black holes, neutron stars, and the inflationary period of the Big Bang after being convinced by *The Electric Universe*. This treasure of comparative mythology and archetype analysis should not be left dangling without seeking a better, more scientifically based model to support its existence.

Also, *The Electric Universe's* ideas suffer because they are associated with the Saturn theory through The Thunderbolts Project group. It is difficult for any scientific society to gain acceptance within the mainstream of thinking when they uphold or tenaciously hold on to some outlandish notions. Somehow the politics within The Thunderbolts Project group needs to hold on to the idea of "Symbols of an Alien Sky" while decreasing the importance or completely suppressing the Saturn theory to have *The Electric Universe* and the "Electric Comet" and Talbott's comparative mythology become mainstream thought.

IX. Models with Scientific Basis to Replace the Polar Configuration

A better version of a catastrophic model of the solar system for what was witnessed in the ancient skies is now presented. This version utilizes a brown (or red) dwarf star that orbits the Sun in short periods of cosmic time, but are long in man's time. The dwarf star has its own planets which sometimes, but not every time, create havoc with the Sun's planetary system. This dwarf star is determined to be about 250 AU at its aphelion and crosses the Sun's planetary orbits between Mars and Jupiter at its perihelion. The important specifics about this version is that it blends catastrophism and uniformitarianism which are both needed to explain Earth's fairly stable geological and biological history with brief interruptions of calamity.

The existence of the brown dwarf star is very plausible. Its dimness and low infrared radiation make it difficult to see even with modern-day instruments. However, its electrical and magnetic nature does provide abundant explanations for producing the various archetypes in the heavens as described in Talbott's "Symbols of an Alien Sky". *The Electric Universe* claims that stars like the Sun and this brown dwarf are charged anodes with dark plasma and planetary cathodes trapped inside their magnetospheres. The interaction of their plasma sheaths and their cathode-type planets can very well create unusual celestial displays for witnesses on planet Earth each time the brown dwarf star crosses the Sun's planetary orbits. This thesis is explained in a journal called "Brief History of Mankind's Chaotic Past – Post-Paleolithic Times (20,000 Years Ago) to the Present" written by myself in 2014. The journal carefully tracks various major catastrophes each time the brown dwarf star with its own planets visited the inner solar system. The possible creation of the various archetypes is also explained as this electrical and magnetic brown dwarf passed through the solar system between the orbital paths of Mars and Jupiter with its own planets creating electrical discharges and possible collisions and/or close encounters with electrical arc discharges from the Sun's planets.

A. An Existing Brown Dwarf

This first version is very plausible. Just recently, brown dwarf stars are known to orbit larger stars and are known to have their own planets. And, there are good reasons why astronomers cannot find the brown dwarf of this binary system. *The Electric Universe* ideas do come to the forefront to provide scientific reasons for this first version and for David Talbott's "Symbols in an Alien Sky" and for evidence of high energy arc sputtering between planets as is revealed by Wal Thornhill's analysis of surface features on numerous moons and planets of the recently explored solar system.

B. Combining Ideas to Address the Epoch of Myths

A second possible version is also presented, but perhaps too fantastic for The Thunderbolts Project group's consideration. Please pay attention. This version does both respect scientific principles and can explain mankind's chaotic past and timeline. This version is a marriage of two controversial ideas, the Anunnaki described by Zecharia Sitchin and David Talbott's Saturn theory, into one. This second version preserves the train of aligned planets positioned in an orbital configuration around Saturn, originally a red or brown dwarf star and binary partner of the Sun. During the early stages of the star system's formation the planets of the brown dwarf were orbiting near the equatorial plane of the dwarf star that the Anunnaki people called Anu. Their home planet was called Nibiru which was the farthest from Anu. The inner closer planets became tidally locked while Nibiru continued to rotate like a normal planet.

The tidal acceleration occurring on Nibiru caused volcanism and mantle mixing that efficiently released its volatiles onto its surface and into its atmosphere. The infrared heating and corona light spectrum along with the atmospheric greenhouse created a similar warm and wet surface environment as is found on Earth today. Also, unusually large polar auroras enhanced the illumination of the atmosphere. Soon an orbital resonance was created with the planets just as occurred with the moons of Jupiter. The recurring conjunction of planets then happens often thereby creating an eclipse that appears majestically like a cosmic wheel in Nibiru's sky. A reason with some scientific basis is now supplied for this pervasive archetype. Surprisingly, this cosmic wheel occurs only at certain conjunctions of Anu's planets from Nibiru's viewpoint as seen by the Anunnaki. The cosmic wheel is very dynamic never posing a constant appearance for very long.

This star system arrangement for Anu provides a fairly stable, secure environment with enough time for the inhabitants of Nibiru to evolve and create their own civilization. Along a similar parallel timeline life evolves on planet Earth that is orbiting the Sun. But evolution on Earth started later with more interruptions due to its greater gravitational and electromagnetic force fields created by its more massive star, the Sun. Mankind is very much in the Paleolithic era when the Anunnaki explore the solar system and cross the gap from Nibiru to Earth in their interplanetary space probes. They colonize Earth bringing their knowledge and memories of the Saturn mythical arrangement.

You may say at this point that I am spinning total fiction; no, I am attempting to connect the dots so that there is a coherent timeline connecting the very convincing Saturn myth to Anu, the planet Nibiru to the Anunnaki, the Anu system to the solar system, the electrical/gravitational battles of Anu's and the Sun's planets, the Anunnaki colonizing Earth, the Anunnaki leaving behind on Earth its residual beings (us), the memories of the Anunnaki passed down to us, and the memories of human beings of the most recent

alien skies over Earth. Confusion in man's myths abound because man's Gods are both the mishmash of both the planets and the human-like Anunnaki appearing from the heavens.

The crossing of Anu, a brown dwarf, and Nibiru, one of its planets through our solar system is witnessed by mankind every Sar cycle or 3600 years. This star and its planets definitely present an alien sky to mankind which is recorded but dimly remembered since different kinds of calamity occur as the planets sometimes battle with their gravity shields and their thunderbolts. This calamity sometimes destroys much of the civilization that both the Anunnaki and man built together on Earth thereby pushing memories into a mythic past that is no longer believed as reality. Do Nibiru and the Anunnaki still exist or were our kindred brethren destroyed in one of the most recent planetary clashes? Or did they leave predicting more pending doom for planet Earth? During one of those battles of the planets, called the Great Deluge of 11,500 years ago, Earth barely survived the event and its memories. Of course, the better known metaphoric terms in man's legends are the battles of the Gods who used thunderbolts and comets-like serpents or dragons.

X. An Excuse to Avoid New Modeling

The book, *The Thunderbolts of the Gods* (2005) by Talbott and Thornhill does provide an excuse for currently not adopting a better version and possibly the abandonment of the polar configuration. The reasons for this excuse I can fully embrace, but not the full extent of what is believed to have happened. A passage from page 79 of this book is quoted:

“How stable was the solar system in the past? In the pioneering work of Hannes Alfvén and his successors, orbital instability is a virtual certainty in the long-term evolution of an electrical model. In the birth of stellar and planetary systems, the electric force will typically dominate. But as the system dissipates electrical energy, it will reach a transitional phase at which a shift toward gravitational supremacy will occur, with potentially violent consequences. A chaotic system will then move toward stable electrical and gravitational equilibrium. Once the planets achieve predictable orbits, no computer simulation based on later motions of the planets can provide even a clue as to the earlier system or its disruption.”

These critical statements are corroborated in my papers on www.ettingejournals.com as presented amongst the various hypotheses. However, certain important points are disputed which The Thunderbolts Project group assumes about this star system genesis. They follow.

1. This major electrical and gravitational equilibrium spoken about occurred very early in the history of solar system presumably between 4.6 and 3.0 billion years ago. It did **not** occur in mankind's existence or memory. The Thunderbolts Project may dispute the current accepted dating, but most certainly many hundreds of millions of years is required for life to evolve and provide the Earth's geological record.
2. Other minor instabilities do occur during the life of a star system and require the electrical forces to constantly make corrections or feedback to return to a stable system. These minor

instabilities do **not** cause chaotic crossings and/or close encounters of the planets as probably envisioned by The Thunderbolts Project group.

3. Major chaos within a planetary system, especially after several hundred million years, can only be caused within a binary or other multi-star system. This idea rules out most exo-solar binary systems as being inhabitable according to astrophysicists. And, capture of celestial bodies from interstellar space is ruled out due the huge expanse of space making it improbable if not impossible. Currently, rogue celestial bodies from either interstellar space or originally within the control of the Sun's gravitational and EM force fields are **not** considered by The Thunderbolts Project group.
4. Real evidence is available that chaos did occur in the solar system on several occasions. The evidence is provided by The Thunderbolts Project group in the form of immensely powerful surface disturbances on the Moon, Earth, Mars and other planets and moons. All these high-energy events could not have occurred in only one instability period of the solar system. The symbols of an alien sky and other comparative mythology do **not** account for any periodic occurrence of chaos. But, according to the studies made by *The Electric Universe* there had to be numerous if not periodic crises on the Sun's planets and their satellites.
5. Through inductive reasoning and true scientific inquiry, one is led to strongly suspect that our Sun has a yet undiscovered binary partner -probably a brown dwarf that is still unseen. According to celestial mechanics, this brown dwarf must orbit our Sun as does the Sun orbit the binary barycenter. This dwarf star, more than likely, has its own set of planets that are brought into close proximity with the Sun's planets. Currently, The Thunderbolts Project group does **not** recognize that such planets or the Gods of myth actually may still exist. This is a fabulous opportunity being totally missed by Thunderbolts.
6. Finally, a part of the previous quote from *Thunderbolts of the Gods* is reiterated:

“Once the planets achieve predictable orbits, no computer simulation based on later motions of the planets can provide even a clue as to the earlier system or its disruption.”

This impossible computer simulation is thought to be the result of the unknown earlier electrical energy involved. But, this impossibility is also due to the coming together of two planetary systems over thousands of short periods of time. This is chaos which no computer simulation can predict. A miraculous cosmic event of humans and/or the Anunnaki evolved, advanced, rebirthed, and remembered despite chaos with its resulting anxieties and fears and destruction. The Thunderbolts Project group does **not** realize the full extent of this chaos and why the worldwide fragments of myth that they researched are so disconnected.

XI. Conclusion

This author has the greatest respect and admiration for The Thunderbolts Project group, especially its leadership and their published works, in presenting their careful research to the public and challenging the powers-that-be of science with their intractable dogma. But, I must deplore the project group in trying to hold onto the Saturn theory with its whimsical polar configuration. This silliness only hurts the credibility of the group's mission especially in the face of our more important space explorers, NASA and

ESA. I strongly suggest adopting another version that explains the cosmic wheel using a much stronger scientific basis. And, some of those likely versions are given to The Thunderbolts Project for their consideration and possible adoption.

XII. Major References

1. *Cataclysm! Compelling Evidence of a Cosmic Catastrophe in 9500 B.C.* (1995) by D. S. Allan and J. B. Delair.
2. *The 12th Planet* (1976) by Zecharia Sitchin
3. *The Saturn Myth* (1980) by David Talbott
4. www.maverickscience.com, summary of *The Saturn Myth*
5. Review of *The Saturn Myth* by The Velikovsky Encyclopedia at [www.velikovsky.info/The Saturn Myth](http://www.velikovsky.info/The_Saturn_Myth)
6. Wikipedia entry on David Talbott at [www.wikipedia.org/wiki/David Talbot](http://www.wikipedia.org/wiki/David_Talbot)
7. *The Electric Universe* (2002/2008) by David Talbott and Wallace Thornhill
8. *The Electric Sky* (2006/2012) by Donald E. Scott, Ph.D.
9. *Thunderbolts of the Gods* (2005) by David Talbott and Wallace Thornhill
10. The National Ocean Service Education website on Tides and Water Levels at oceanservice.noaa.gov/education/tutorial_tides/welcome.html
11. Wikipedia entry on Oceanic heat content at www.wikipedia.org/wiki/Ocean_heat_content
12. Wikipedia entry on Earth's energy budget at [www.wikipedia.org/wiki/Earth%27s energy budget](http://www.wikipedia.org/wiki/Earth%27s_energy_budget)
13. Wikipedia entries providing information on celestial body data for Sun, Earth, Moon, Mars, Venus, Saturn, Jupiter, brown dwarf and red dwarf stars
14. "A Brief History of Mankind's Chaotic Past: Post-Paleolithic Times (20,000 Years Ago) to the Present" (2014) by Douglas B. Ettinger on www.ettingerjournals.com
15. Planet data tables at www.astronomynotes.com/tables/tablesb.htm
16. The Thunderbolts Project website at www.thunderbolts.info
17. YouTube feature-length documentaries by The Thunderbolts Project: "Symbols of an Alien Sky"; "The Electric Comet"; and "The Lightning Scarred Planet, Mars" at www.youtube.com