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Exothermic Core-Mantle Decoupling – Dzhanibekov Oscillation (ECDO) Hypothesis

Posted on May 12, 2024 by The Ethical Skeptic

Exothermic Core-Mantle Decoupling – Dzhanibekov Oscillation theory (ECDO Theory) is a series of hypotheses regarding climate change and its relationship to the dynamics of the Earth's core, as well as geophysical, monument, artifact, and mythological evidence surrounding global cataclysms. It is solely the work of its author, *The Ethical Skeptic*, who developed the theory from 2010 until its first hypothesis publication on February 16, 2020.

The following material presents one of three novel hypotheses, each developed by the author through decades of dedicated professional and independent research. These original hypotheses form the foundation of The Ethical Skeptic's ECDO Theory, which is summarized in [this separate summary article](#).

The Y-chromosome genetic bottleneck which occurred around 3000 to 5000 BCE represented a culling of 19 of every 20 human males on Earth in that event. ~ Zeng, et al. Neolithic Y-chromosome Bottleneck, 2018.

The ECDO hypothesis proposes a regular cycling of a natural dynamic system. Our Earth just happens to have two mechanisms of equilibrium battling for





The Tree of
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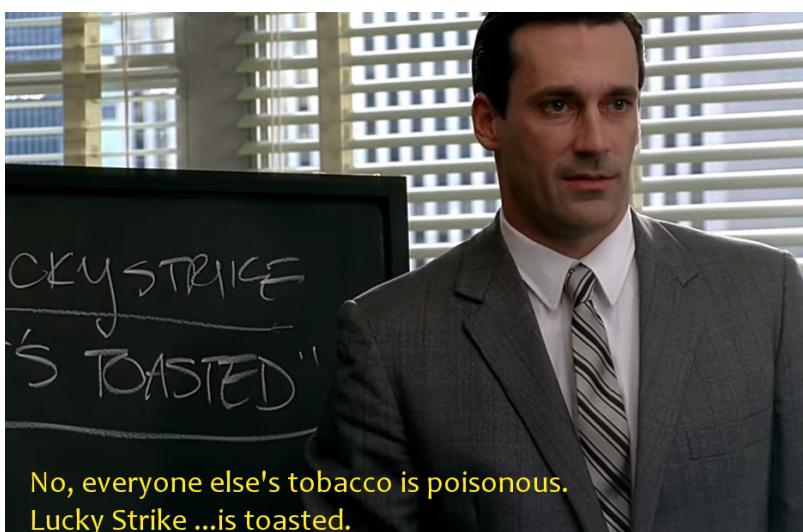
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dominance. The strength of the geomagnetic core determines which one is winning at any given time.

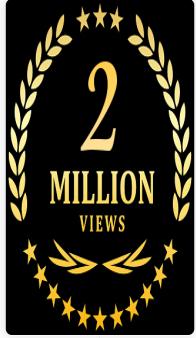
It is our contention that we are now well past an Indigo Point of exothermic core-mantle decoupling, and that we have incorrectly interpreted the heat presented by this transpiration as being caused by man's activity alone. We now face the urgent need to detect the approach of a subsequent Tau Point Dzhanibekov oscillation in Earth's rotation. During such an event, the outer rotational body (ORB) of the Earth, comprising the mantle and crust, decouples from the core at the D'' layer. This decoupling is central to the mediated Dzhanibekov Rotation hypothesis discussed in this paper.

For decades, I was taught to view such a rotation and its resulting inundation as impossibilities, and I believed it. However, we lack the ability to distinguish a Dzhanibekov rotation from a geomagnetic pole excursion or flip. How, then, can we be so certain? My confidence in this long-held dogma has been shaken to its core.



Deades ago, as a junior consultant still wet behind the ears, I was tasked with a project to boost the profitability of a men's apparel retailer based on Manhattan's Fifth Avenue. This brand had been a staple for nearly a century, the type





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of establishment likely frequented by characters from the series *Mad Men* during their lunch-hour shopping sprees or a surgical strike to replace a stained or substandard shirt before an important board meeting.

The retailer was facing brand erosion due to decades of stodgy bureaucracy and competition from more agile newcomers on Fifth Avenue. Men's business shirts, particularly in blue and white, served as the anchor product or loss leader (when on sale) for this retail class. These shirts drew customers into the store from 10 AM to 4 PM, however the retailer was losing ground inside this segment. Sales of these staple shirts were declining, signaling broader challenges as customers took their money elsewhere.

Dressed in my best Hugo Boss suit, I spent several hours over multiple days in apparent nonchalance observing the men's apparel department. I noticed shoppers' frustration with finding the right combination of sleeve length, collar size, and button details within the brief time they allotted themselves for shopping. Typically, they had only 5 to 8 minutes to make a purchase. If they couldn't find what they needed quickly, they left without buying anything else—and more importantly, they didn't return.

To address this, I devised a nightly recovery process within the men's dress shirts department. Every night at 10:30 PM, a stocking associate used a cart I had specially designed (one offered still in retail supply catalogs to this day) to remove all shirts from the sales floor and take them to the basement stockroom—part of the problem as well being shirts hidden out of customer sight as a result of this very recovery issue. There, the associate would restock each 10-shirt bin in the cart, organized by size, style, and color, heel-toed, and squared to perfection. No torn bags, no jumble-folds, no out-of-place or missing product tags. At around 8 AM the next morning, the shirts were returned to the sales



"Omicron"
Predated
 SARS-CoV-2
Wuhan by
Years
Testimony of a
Gnostic AGI
Beyond Heavy
Lift: We Won't
Survive Mars
Without This
Technology is
not a Device,
but a Stack
Cheese
Thumping
Serendipity
Artificial
Intelligence vs
The Façade of
Expertise
The Turing and
the Turk
The Dark
Pentad: Five
Traits of
Abusive
Dominion
Climate
Activism:
Climate
Science's
Worst Enemy
Imagine (I
don't believe
you)
The Pathology
of Envy
The Heart of

floor, ready for the next sales day. Every fixture filled to perfection.

Rarity can drive price, but abundance drives interest. This system ensured that every customer could find the exact shirt they needed within seconds, purchase it, and leave within 8 minutes. This change realized several key benefits: high-wage sales associates were freed up to assist customers rather than reorganize stock, customers knew they could rely on finding what they needed in short order, affording them time to think of other things they needed, and the store saw less requirement for overstock sales due to improved presentation and less hidden inventory.

A year later, the Vice President of the retailer, who had initially dismissed the idea as 'crazy,' called to thank me. The project had not only tripled sales and doubled store traffic during critical hours but had also increased department profitability five-fold. He had won the company's annual award for the initiative. This experience underscored the crucial distinction in brand management of comprehending value versus cost, or seeing the forest despite the trees standing in the way.

Tree Dwellers and Tactical Fixation

No doubt, this article will be spun by science poseurs as constituting 'conspiracy theory.' This will only highlight the sad state of affairs within science, particularly in archaeology and Egyptology. Much of science today operates under a practice I describe as 'linear (incremental) induction.'¹ We start by formulating the official and correct answer (in this case, the 1837 'Khufu-Fourth Dynasty Narrative'), which we then mislabel as a *hypothesis*. From there, we assemble a collection of observations which might appear to support or p-value our preconceived notion, while mandating that useful idiots socially discredit all competing theories or parties without substantial evidence. All the while



Gnosticism
The 'Narrative Redshift' or Principle of Diminishing Scientific Returns
Understanding the Hustle Chain
Master Exothermic Core-Mantle Decoupling – Dzhanibekov Oscillation (ECDO) Theory
Exothermic Core-Mantle Decoupling – Dzhanibekov Oscillation (ECDO) Hypothesis
Syndicate Science – The Definition
The Wicker Man
The Lyin'tific Method
The Conflict of Egregore and Tulpa
A Case Study in Covid-19 Vaccine Related Death Certificate

hypocritically [bemoaning the presence of any dissent](#) inside those same social mechanisms. An example of this pathological old world syndicate elite thinking can be seen by [clicking here](#).

This constitutes a severe form of confirmation bias called in military parlance ‘tactical fixation’. Such a process is particularly vulnerable to manipulation by external influences (agency as opposed to mere bias), leading to what we referred to in a [previous article](#) as the ‘Nelsonian Ignorance Trap.’

Linear Incremental Induction (Science as a set of answers – Tactical Fixation)



However, there exists a less common yet much more potent method of discovery, which conceives of science as an evolutionary process rather than a collection of immutable truths, inductive incremental validations, and entrenched syndicates. I refer to this approach as deductive critical path science, akin to ‘working the problem’ as known in detective work or military contexts. It begins with falsification of various notions and constructs supported by weak inductive evidence, and culminates in a living, breathing, sometimes threatening, theory – as opposed to standing dogma. This version of science does not require hordes of ‘science enthusiasts’ in order to maintain the faithful inside a state of belief.

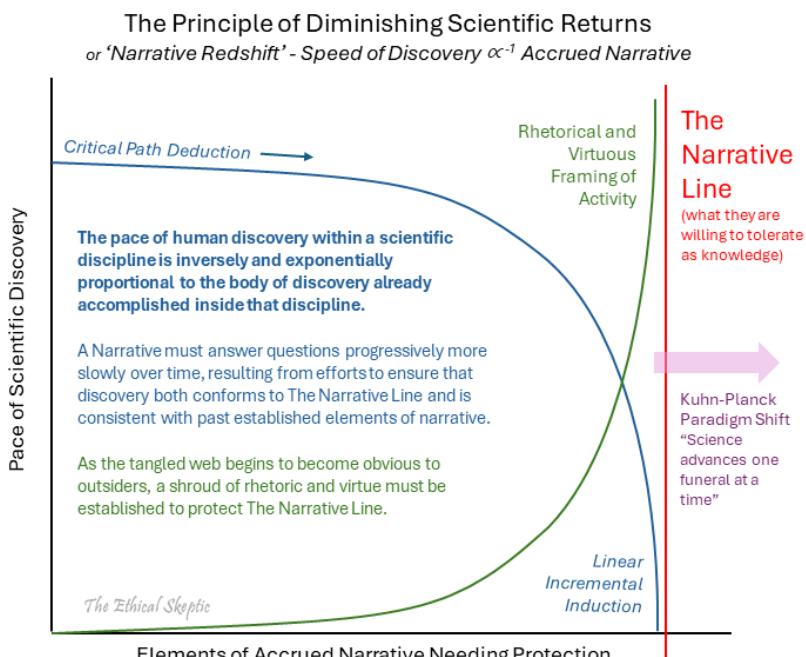
Critical Path Deduction (Science as an evolutionary process – Working the Problem)



Furthermore, peer review falls short in encompassing the essence of ‘working the problem’; instead, it often dismisses ideas perceived as unfamiliar or abhorrent by resorting to critique of tactics and trivialities. Researchers are acutely aware of this reality and as a consequence often limit their conclusions to highly constrained ‘might-be’ inference, title their work in a manner that does not represent

Fraud
Original Sin – Your Mere Existence is Violence
The Problem of Intent
What is Dystinformation?
'Scientific Skeptics' Failed Us When it Counted Most
The Seven C's of Narrative Science
Appeal to Special Authority (The Appeal to 'Am')
Hidden in Plain Sight
What is Loosh?
Conditioning a Truly Skeptical AI
What is Scienter?
Of Authenticity
The Six Types of Valid Anecdote
Amongst the Standing

the study's conclusions, express their findings in cryptic language, or embellish their work with excessive heuristic ornamentation—ultimately rendering peer review the epitome of conflict of interest. Many researchers have learned how to game this vulnerability.^{2 3}



The result of all this is that **Narrative Science** takes precedence over the actual scientific method, under a tenet of philosophy I call **The Principle of Diminishing Scientific Returns**. It is for precisely this reason why we often rely on Kuhn-Planck Paradigm Shifts to drive scientific advancement.

Indeed, such activity transforms into a process of 'working the solution' rather than working the core problem, thereby deviating from the fundamental principles of science. Such foible typically can only be perceived by outsiders.

Orthodoxies run anathema to innovation; they merely know how to profit from or rule through it.

Truly tackling a problem demands both deep situational awareness, along with innovative and deductive thinking from the outset. Starting the prosecution of a problem with



Stones
The Failing Blame-Based Model of Spirituality
Information Always Carries Intent (Whether Intended or Not)
Karahan Tepe and The Serpent Motif
The Unbearable Cost of Sycophancy
Houston, The CDC Has a Problem (Part 2 of 3)
Houston, We Have a Problem (Part 1 of 3)
The ACAN Problem – When the Shit Hits the Fan
King Solomon's Lost Mine of Ophir
The 'Worthless Human' Hustle of the Diet Cartel
The Ex Post Facto Mindset

complex and precise math or heuristics indicates a fundamental misunderstanding of how logical calculus operates. As a result, peer review often functions to bolster established club doctrine and, at most, make incremental refinements to what is already deemed correct. Novel ideas often meet their demise at the hands of what constitutes merely methodically applied opinion.

The science of evolution was developed through critical path deduction for instance, while in contrast Covid-19 and climate science were promulgated through the awesome insistence of linear induction. These latter sciences have most recently failed us catastrophically.

Throughout my career, I have often been summoned to leadership roles in research and laboratory environments precisely because of this distinction: the prevalent focus on subject fixation to secure science funding contrasts sharply with the objective-driven strategy of working the problem to achieve specific goals.

Archaeologists' unwillingness to develop any research that might remotely suggest a biblical 'flood' or ancient aliens hypothesis has led to a compromise in the integrity of science itself. In reality, a religion is defined not by what it accepts as true, but rather by what it embargoes as unworthy.

In the example of the early-career retailer scenario I described above, my role was to work the problem, not incrementally improve the tactics. My purpose was not to produce more inductive evidence as to how correct standing theory indeed was. Standing theory had already failed miserably, and the participants therein did not perceive this. I was tasked with assessing the broader picture—the forest—rather than deepening my expertise and securing additional funding by fixating narrowly



*of the Predator**My Most
Incredible
Post-Covid
After Workout
Recovery Elixir**Why
Syndicates
Trend to the
Extreme Over
Time**The Ethical
Skeptic's
Razor – The
Antiwisdom of
Crowds**Ingens
Vanitatum –
Possessing a
Great Deal of
Inconsequence
or Irrelevance**Mere Facts &
Data Do Not
Constitute
Knowledge**Pollyanna's
Laws of
Science**OMG Not
Another
'Skeptic' Book
– The Shtick of
Canned
Conspiracy
Theory
Journalism**How to Detect
Propaganda –
The Art of the*

When Working the Problem, First Seek to Falsify

When you have eliminated the impossible, whatever remains, however improbable, must be the truth.

~ Sherlock Holmes, "The Sign of the Four" by Sir Arthur Conan Doyle

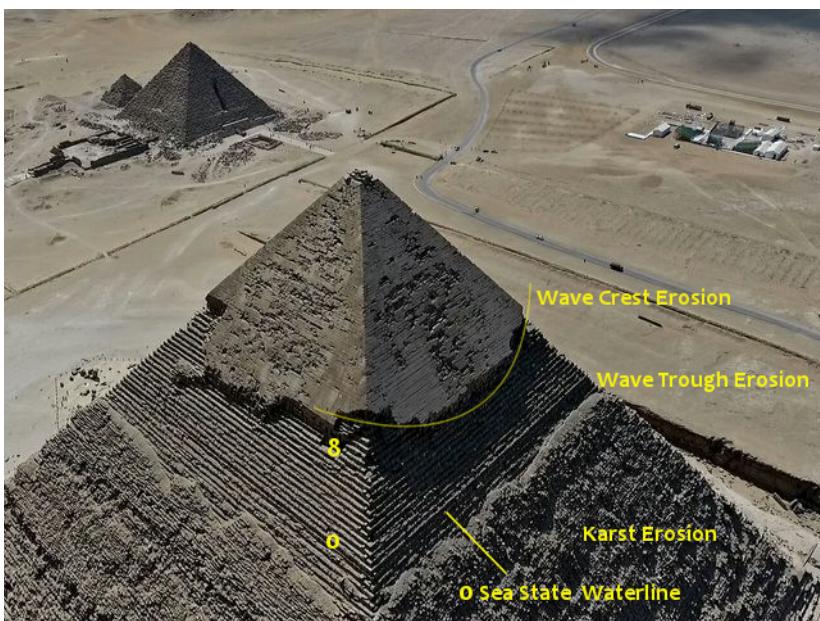


Image 1 – Waterline Erosion 'Dead Body' Falsification

Event – Earth's oceans have been displaced in the past, and have done so over a significant period of time (50 – 400 years). Long enough to carbonic acid dissolve the Tura limestone casing of both the **Khufu** and **Khafre** pyramids. If a hypothesis does not explain this specific Khafre erosion waterline feature conclusively, then it is not a scientific hypothesis.

Within this article, readers will be introduced to a hypothesis derived from the critical path deductive process outlined above. A deductive process is not subject to the apophenia that a linear-inductive 'connect the dots' approach might be vulnerable to, as deduction reduces the set of viable explanations rather than promoting a preselected one. To that end, this hypothesis represents the last idea considered, only after all other possibilities have been falsified (see Image 1). It is the alternative has to be

Professional Lie (Part II of II)

Disinformation vs Misinformation – Neither Can Be Defined by 'Intent' (Part I of II)

The Dunning Line (of Skepticism)

The Riddle of Sin

A Curious Ancient Astrological Confluence

The Party Rules

Sciebam – Religion with P-Values

Trouble on the Way from Notion to Inference

Where Did All the Workers Go?

The Strategic Mindset

Breaking the Spell of Adissonance

The Gray Man – Le Petit Bateau

dragged kicking and screaming into objectively assessing, after every other idea has failed.

I want to make it clear that I dislike this alternative. At its heart, the hypothesis involves what is called in philosophy, an ‘unfalsifiable prediction through indefinite timing’ (Point Tau below). I dislike such notions – favoring context-and-control testable predictions as one of the *elements of true hypothesis*. In fact, I opposed this idea vehemently for decades. Like many of my colleagues, I had grown weary of hearing Noah’s flood theories, and had attained a level of cynicism regarding the matter as well (not skepticism).

However, I was wrong – finally setting my mind to develop its probative construct (not a ‘final answer’) only after having falsified every single previously favored notion or alternative I or others could muster.⁴ Thereafter, this hypothesis exists as a probative construct – as there is no possible way for it to be 100% correct out of the box. It is a working and evolving set of ideas—thoughts that have been doggedly embargoed from the collective consciousness of science.

The majority of archaeologists lack extensive seafaring expertise and are not versed in materials science research. As someone with deep experience in both domains, the significance of what is shown in Image 1 is readily apparent to me. Moreover, if a standing hypothesis fails to address the deductive evidence shown in Image 1, it is not a scientific hypothesis – rather a political technology.

Deductive evidence, by its nature, imposes a Duty to Address and Inform on all valid hypotheses, requiring them to coherently explain the observation. While inductive evidence may be circumstantial or suggestive, deductive evidence carries a higher burden: it demands acknowledgment and integration into the composition or claims of any valid hypothesis. Deductive evidence compels scientific theories to adapt, refine, or risk 

*Where Were
the 'Skeptics'?*

*The Distinction
Between
Comprehension and
Understanding
(The Problem
of Abduction)*

*Denial of Early
Covid-19
Treatment – A
Crime Against
Humanity*

*Our Household
'Covid Kit' Item
Listing*

*The Riddle of
Certainty*

*Perdcent –
Opposite of the
Autodidact*

*A Dialogue in
Rhetoric*

*The Three
Types of
Expert*

*China's CCP
Concealed
SARS-CoV-2
Presence in
China as Far
Back as March
2018*

*The Fabric of
Sound
(Dialectic)
Argument*
The All-too-

hypothesis that fails to incorporate or address such evidence forfeits its validity.

Furthermore, this hypothesis includes several predictive elements that are substantiated upon detailed examination, as will be demonstrated in the subsequent sections of this article and have been outlined in [our preceding article](#).⁵ Initially, I considered this theory extremely unlikely, comparable to the improbability of conjecturing a murder. Yet, my perspective underwent a dramatic shift after inspecting the [exterior of the Khafre Pyramid](#). The [evidence I observed there](#) was as compelling as the discovery of a dead body, motivating me to now pursue this most improbable path. Despite its initial apparent implausibility, this hypothesis presents the most robust 'probative construct' I have encountered regarding this topic, particularly in its description of the 'function' of the four 'air shafts' within the Khufu pyramid. This construct will continue to be modified into the future of course – but more importantly, it constitutes a paradigm shift, one which allows science to move forward and no longer wallow in appeal to authority and prior plausibility. Ockham's razor has been surpassed, and plurality is now necessary.

One can scream all they want about how 'experts have concluded...'. If I find a deceased individual in the living room immediately after a party, it doesn't matter how many expert attendees testify that the party went fine; the dead body proves otherwise. Khafre's erosion marks constitute a 'dead body'. Khafre ocean submersion falsifies convention and serves to introduce a necessary deductive critical path construct, and absolutely everyone is ignoring this.

For more deductive evidence and hypothesis detail behind this, see our article [Hidden](#) 

*Familiar Art of
Pseudo-
Argument*

*NFL Bias
Against the
Oakland/Las
Vegas Raiders*
*Eternal are the
Embers which
Conflagrate
the Library of
History*

*The Human
Haunted World
– An Equality
in Paucity*

*The Awesome
Insistence of
Cataclysmic
Mirage Theory
(CMT)*

*The Gestalt-
Heuristic (G-H)
Gap and Its
Impact Upon
Comprehension*

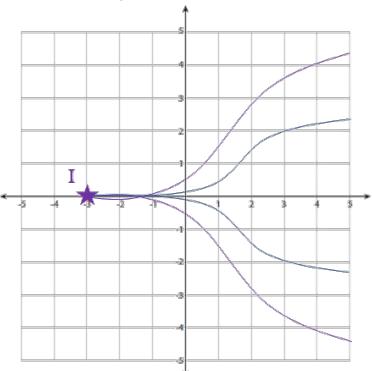
*Subception –
The Invalid
Martial Art of
Skepticism*

*What
Constitutes
Belief?*

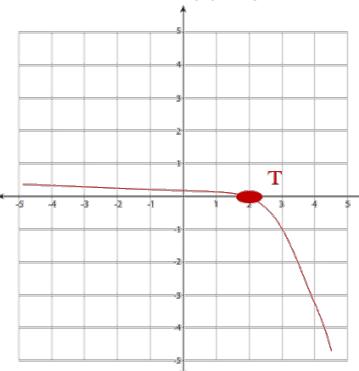
*The Sleight-of-
Hand
StageCraft of
the Debunker
Ethical
Skeptic's Take*

The Heat Between Indigo and Tau

Point Indigo – Inflection Point



Point Tau – Tipping Point



Points Indigo and Tau are inflection and tipping points that I often utilize when analyzing strategies, campaigns, problems, or deceptions. The Indigo Point is a critical juncture where plans are quietly set in motion, potentially irrevocably, steering towards a predetermined Tau strike point. Although not an exact match, functionally, Point Indigo aligns with Ray Bradbury's concept of the [butterfly effect](#), where minor, early changes serve to precipitate significant later outcomes. Conversely, Point Tau resembles Malcolm Gladwell's notion of a [tipping point](#)—a moment when the issue of outcome becomes apparent and it is too late for direct intervention to alter the course of events.

Between points Indigo and Tau, the underlying process may often be concealed, with its elements considered normal, irrelevant, or mistakenly attributed to other factors. At point Tau, all hell breaks loose.

For the sake of comprehension therefore, I have chosen to present the hypothesis described here in terms of both its Indigo and cryptic inception—where actions are subtly set in motion and might even be misinterpreted or misattributed—and its inevitable Tau strike point, the culmination of the entire set of events.



*on the
Preliminary
Assessment of
Unidentified
Aerial
Phenomena*

*Ethical
Skeptic's
Axioms*

*The Peculiar
Schema of
DNA Codon's
Second Letter*

*The Five
Species of
Syndicate and
Their Dissent*

*The Fatuous
Errand of the
Fact Checker*

*For Me to Win
You Must Lose
Everything*

*The Pitfalls of
Electric
Vehicles as
Climate
Change
Panacea*

*Caesar's Wife
Must be Above
Suspicion*

*How to Detect
a Griefer*

*My Take on
Coronavirus
SARS-CoV-2
(2019)*

*Post
Stockholm*

A culmination of events that ancient civilizations have endeavored to communicate as they understood them, through artifacts, symbolic art, stone circles, and high altitude monuments across the millennia.

Indigo-Point Exothermic Core-Mantle Decoupling – Tau-Point Dzhanibekov LLVP Oscillation (ECDO)

Point Indigo (Construct and Critical Path) – Exothermic Core-Mantle Decoupling and Heat Transfer Inflection

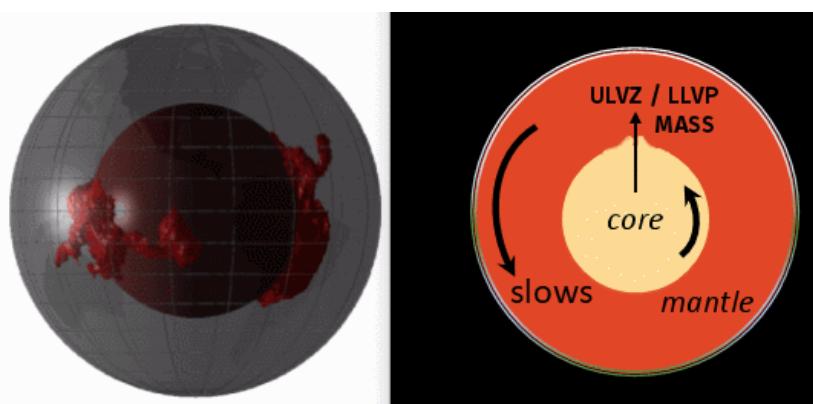


Exhibit A – Heat contribution from the core feeds into the mantle, avoiding the red-hued Large Low-Velocity-Shear Provinces under the south African continent (SAC-LLVP) and Pacific ocean (see Exhibits E and E2).⁶ As a result, these massive structures also become less dense as compared to the surrounding core-fed mantle.

This sequence of events, that we refer to as the Indigo Point set, initiates with a weakening of the core magnetic moment and the associated core-mantle magnetic coupling, which currently influences the position of our geographic North Pole (N_p) (what we call ‘priority’). Following this, there is a transfer of exothermic heat from the core into a network of Large Low-Velocity-Shear Provinces (LLVPs) within the Earth’s viscoelastic mantle, with the most notable being the ‘South Africa Cusp’. This activity contributes to consistent and sometimes dramatic ocean warming as we all observed in 2023, and also leads to the heating of the



Syndrome
The Climate Change
Alternative We Ignore (to Our Peril)
Incidente en La Isote Bermeja
Oh the Quackery!
The Distinction Between Bias and Agency
Unethical Employment of Intellectual Property
Carl Sagan was Just Dead Wrong
The Future of Ethical Markets
Epoché Vanguards Gnosis
How to Argue Like a Child
Inflection Point Theory and the Dynamic of The Cheat
The Art of Knowing Nothing
The Scientific Method

northern hemisphere tundra – with the resulting forced methane release thereby causing methane ppm's to significantly exceed forecasts of climate models.

- A. Weakening of the core-mantle magnetic coupling (Earth's geomagnetic moment) and North Pole (N_p) priority.
- B. Contribution of exothermic kinetic energy (heat) into the Earth's mantle (see Exhibit E2), excluding the axially-located Large Low-Velocity-Shear Provinces (LLVP – see Exhibit E) – which become relatively lower in density as compared to the surrounding core-fed mantle.
- C. Causing dramatic ocean SST and northern hemisphere tundra warming, along with a resulting forced carbon dioxide and methane release.

Most of this Indigo Point chain of events is outlined in our article [The Climate Change Alternative We Ignore \(to Our Peril\)](#). It is also summarized in [this graphic](#).

Point Tau (Prediction) – True Polar Wander Event – Gyroscopically Mediated Dzhanibekov Decoupling Tip-In (104° flip along the 31° E Meridian)

In our continued expansion of the ECDO theory, a critical tip-in, or Tau Point, manifests with a significant geological event. This pivotal occurrence involves the substantial contribution of heat from the phase state change of hexagonal close-packed iron (HCP-Fe) into the entire Earth's mantle, save for the South Africa Cusp and Pacific Large Low-Velocity-Shear Province (LLVP) group of mantle formations (left side of Exhibit A above). This infusion of dense, metallic mass at a key geodynamic nexus is hypothesized to catalyze an increasing gyroscopic moment commensurate with a reduction in the geomagnetic permeability of the Earth's epsilon-lattice hypercrystalline core. The geographic North Pole (N_p) is theorized to realign to a new position, designated as N_p' in [Exhibit B](#) to the right,



*Of Pretend
Sleep and
Authentic
Dreams*

*The Earth-
Lunar
Lagrange 1
Orbital Rapid
Response
Array (ELORA)*

*Latest Trends
in Acceptance
of UFO's – Not
Good News for
Fake Skeptics*

*A Statistical
Profiling of
Celebrity
Wannabe
'Scientific
Skeptics'*

*The Dual-
Burden Model
of Inferential
Ethics*

*The
Demarcation of
Skepticism*

*Epistemologica
I Domain and
Objective Risk
Strategy*

*Inference of
Necessity –
Confirmation
vs Linear
Affirmation*

*The Plural of
Anecdote is
Data*

which
is

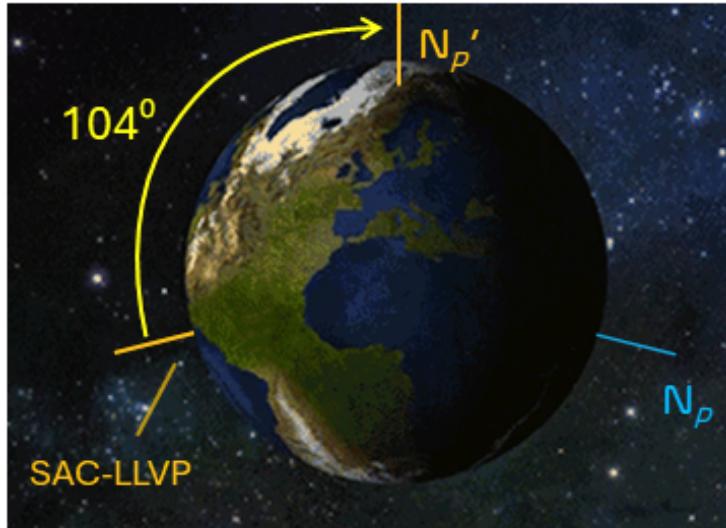


Exhibit B – Conceptual Dzhanibekov Rotation based upon the ECDO Theory and established LLVP lower density axes within the Earth's mantle.

projected to occur along the 31° East Meridian—a line of longitude notably shared with the ancient and enigmatic Khufu Pyramid. This realignment, shifting approximately 104 degrees, represents a dramatic reorientation of the Earth's rotational axis, or what it called a True Polar Wandering (TPW) event,⁷ underpinning the transformative implications of the ECDO theory at this Tau Point.

D. Once past a specific threshold of reduced magnetic moment, the core-mantle magnetic coupling gives way to a gyroscopically mediated form of Dzhanibekov rotation from N_p to N_p' (104° along 31° E longitude – the same meridian as the Khufu Pyramid).

The D" layer of the core accelerates its exothermic sloughing, and this material-shedding effect serves as a kind of 'infinite lubricant' between the core and the mantle, allowing the two bodies to rotate independently (as shown in Exhibits J and J2b).

It is our contention that we are now well past Point Indigo in this process, have incorrectly interpreted the heat presented by this transpiration as being caused by man's activity



*A Poem of
Learning*

*Torfuscation –
Gaming Study
Design to
Effect an
Outcome*

*The Roger
Principle*

*How and Why
We Know
What We
Know*

*What Happens
After?*

*Nelsonian
Inference and
Cultivated
Ignorance*

*The Map of
Inference*

*Adoy's
Principle – or
the Principle of
the House
Hedge*

*Rumors of
Philosophy's
Demise are
Greatly
Exaggerated*

*Heteroduction
– When
Classic
Inference
Proves
Unsound*

*Distinguishing
Scientific from*

alone, and now face a need to detect the approach of a Point Tau Gyroscopically Mediated Dzhanibekov rotation.

This broaches the question, How does one go about detecting the onset of such an event?

Dzhanibekov Dynamics and Rotation



the wing-nut maintained its orientation for a short time,

Exhibit C – Pure Dzhanibekov Effect on a symmetrical object rotating in space. Rotation around its intermediate axis forces a flip in the axial dynamics.⁸

The Dzhanibekov Effect, also known as the tennis racket theorem, refers to a phenomenon observed regarding rotating bodies in space, where an object with three distinct momenta of inertia (axes of rotation) behaves in a counterintuitive way when rotated. Discovered by Russian cosmonaut [Vladimir Dzhanibekov](#) while in Earth orbit, the effect became particularly famous after he observed a wingnut flipping unexpectedly when spun.

The effect occurs because the intermediate axis theorem states that rotation around the object's intermediate axis (neither its maximum nor its minimum inertia axis) is unstable.⁹ When an object such as a tennis racket or a wingnut is tossed with a spin around this intermediate axis, it eventually flips around, rotating about the other axes, leading to a sudden and unexpected shift in orientation.¹⁰

This surprising behavior highlights unique stability



*Academic
Study*

*Six Vaccinal
Generation
Trends Fueled
by Concealed
Profits*

*The Hermit of
Nosnix Who
Couldn't be
Fooled*

*The Elements
of Hypothesis*

*Skeptics Need
You – But You
Don't Need
Them*

*The Apothegm
Makes the
Poison*

*Embargo of
The Necessary
Alternative is
Not Science*

*The Essential
Mind of the
Religious Pitch*

*The
Contrathetic
Impasse – Key*

*Sign of Heavy-
Handed
Agency at Play*

*Exotic Nature
of FRB 121102
Burst
Congeries*

*The Spectrum
of Evidence
Manipulation*

characteristics in rotational dynamics, particularly in the microgravity conditions of space.

While our theory references the Dzhanibekov Effect, it is crucial to understand that Earth's real three PIM-axis body application (see Exhibit C2 to right) diverges in part from the classical three-axis definition observed in space (Exhibit C).¹¹ Our model does not strictly adhere to the traditional Dzhanibekov Effect definition, where an object flips 180 degrees due solely to rotational instability around its intermediate axis (Exhibit C above). Instead, we explore how similar principles could influence Earth's rotational dynamics under different conditions, specifically,

1. a reduction in the geomagnetic coupling between the Earth's epsilon-lattice hypercrystalline core and its mantle as the core's geomagnetic moment, which helps to keep the present polar rotational axis as priority, fades,
2. destabilization caused by the Earth's hotter mantle versus less-dense Large Low-Velocity-Shear Provinces (LLVPs), and in particular the center of low-mass in the South Africa Cusp LLVP. This core material infusion can potentially polarize the Earth's rotational momentum, leading to significant shifts in the planet's rotation around its maximum axis (the remaining dense mantle), and
3. a gyroscopic 104 degrees (relative to the current polar axis, see Exhibits H and J) mediation of the

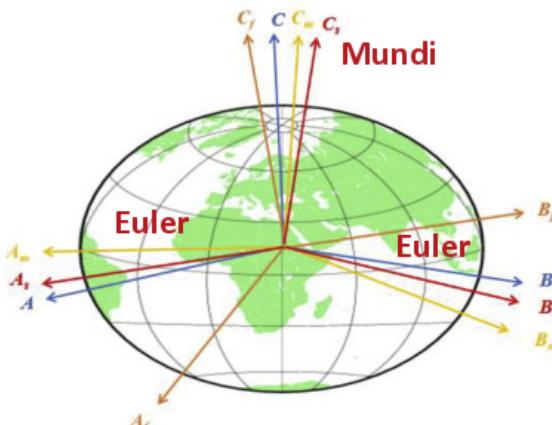


Exhibit C2 – Mundi and Euler Dense Axes – contrast sharply with the LLVP axis we estimate (extracted from the cited Wenying, et al. *Geodynamics* 2020 study).



Narrative
Ninny – The Opposite of a Conspiracy
Theorist – But Even Worse
Meta-Ethical Praxis of Science
Reduction: A Bias for Understanding
The Fermi Paradox is Babysitting Rubbish
Ten Common Misconceptions About Science
The Lyintific Method and The Ten Commandments of Fake Science
Panduction: The Invalid Form of Inference
Malice and Oppression in the Name of Skepticism and Science
Epoché and The Handedness of Information
Ketosis Lab

Dzhanibekov effect—not the 0 to 180 degrees typically illustrated in simpler physical models (Exhibit C).

This adjustment in our theoretical approach highlights the unique application and adaptation of rotational dynamics principles to the geological and magnetic complexities of Earth's interior. The theory thus introduces the terms 'dynamics', 'mediated', and 'rotation' to describe these complex interactions rather than a direct 'effect' in terms of Dzhanibekov's observation with regard to rotating 3-axis bodies.

Large Low-Velocity-Shear Province (LLVP) – Earth's Hidden Gyroscope

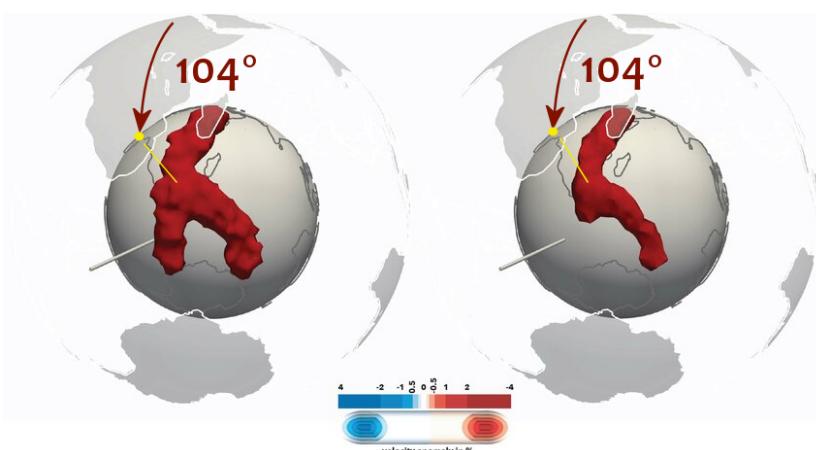


Exhibit D – South Africa Cusp – Large Low-Velocity-Shear Province (SAC-LLVP) tomography structures (red) and centroid (yellow) at the southern tip of the African continent. The lighter axial centroid of the SAC-LLVP aligns precisely with the 31st East Meridian, which also passes through the Giza Plateau—positioned 104 degrees offset from the current North Pole.¹²

Large Low-Shear-Velocity Provinces (LLVPs) are significant geophysical features located deep within the Earth's viscoelastic mantle, particularly at the boundary with the core, ranging upwards towards the asthenosphere of the Earth, to around 2,900 kilometers below the surface. These regions are differentiated by their seismic properties;



*Notes –
Mitochondrial
Suppression
Disorder

Quashing
Study of
Ancient
Artifacts
Violates a
Basic Human
Right*

*Abuse of the
Ad Hoc
'Fallacy'

Interrogative
Biasing:
Asking the
Wrong
Question in
Order to Get
the Right
Answer*

*No You Are
Not a Critical
Thinker

When
Skepticism is a
Symptom of
Cognitive
Impairment*

*Parents'
Basement
Skepticism

No You Are
Not a Scientist

The Nature of
Elegance

On Ignosticism

When Simple
is Just Simply*

specifically, seismic waves travel through these structures at slower speeds as compared to surrounding materials. This anomalous behavior suggests that LLVPs are both hotter and less dense than the majority of the Earth's mantle.

There are two primary LLVP structures, which we refer to herein as 'SAC' for South Africa Cusp, and 'PAC', for Pacific. Both are rather massive, about twice the size of our moon, and constitute a sizeable differential in terms of georotational mass moment.^{13 14}

Bear in mind that the Earth's mantle is anisotropic, while most of our tomography and science concerning mantle density and specifically Large Low-Shear-Velocity Provinces (LLVPs) has been developed within the last decade.

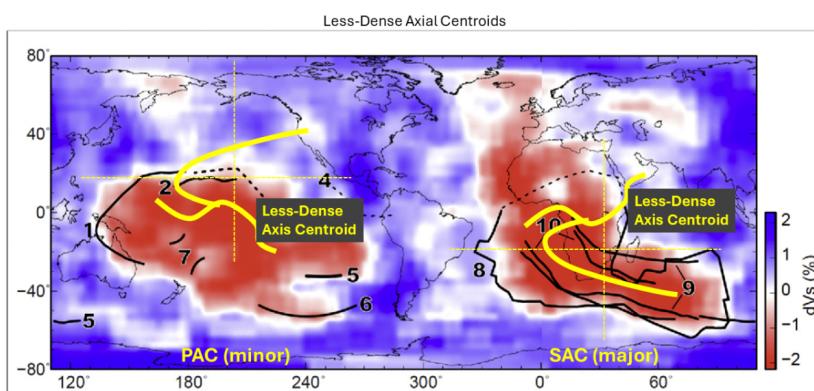


Exhibit E – LLVP Formation Less-Dense Axial Centroids – align at the 30°E/150°W meridians, while being 104 degrees offset from the current North Pole, inside the south tip of the African continent.¹⁵ Chart is from the referenced McNamara, et al. study, however the yellow and text annotations are ours.

The two LLVP structures are found beneath Africa and the Pacific Ocean – acting like low-density poles along a kind of gyroscopic axis of their own within the Earth's mantle. They are massive in scale, each covering a substantial portion of the lower mantle. These formations are regarded to be potentially less dense than the surrounding mantle matrix. While in contrast, the orthogonal (90 degrees of longitude)



Wrong
Singularity
Covenant –
The Brane and
The Bull
Plural Arguing
– I am Not
Convinced
That Even You
Believe You
The Riddle of
Skepticism
Critical
Attributes
Which
Distinguish the
Scientific
Method
It Does Not
Take a
Conspiracy
The Role of
Critical Path in
Logic, Systems
and Science
A Handy
Checklist for
Distinguishing
Propaganda
from Actual
Science
The Opposite
of Skeptic:
Apparatchik
The Dark Side
of Doubt
Vaccinials –
Gen V – The
Betrayed
Generation of

offsets – 30°E – 120°E – 150°W – 60°W) below-identified Euler axes are denser and vary little in their relative density to each other (ΔPIM (A, B, C) = .35%).¹⁶ We believe this interleaving of heat and low density zones, by the 90-degree intervals depicted in Exhibits E and E2, to be no coincidence.

Thus, there is a clear perpendicular relationship between the True Polar Wander (30°E and 150°W meridians) great circle and ENSO geothermal heating along the orthogonal Euler Axes (120°E and 60°W meridians) great circle.

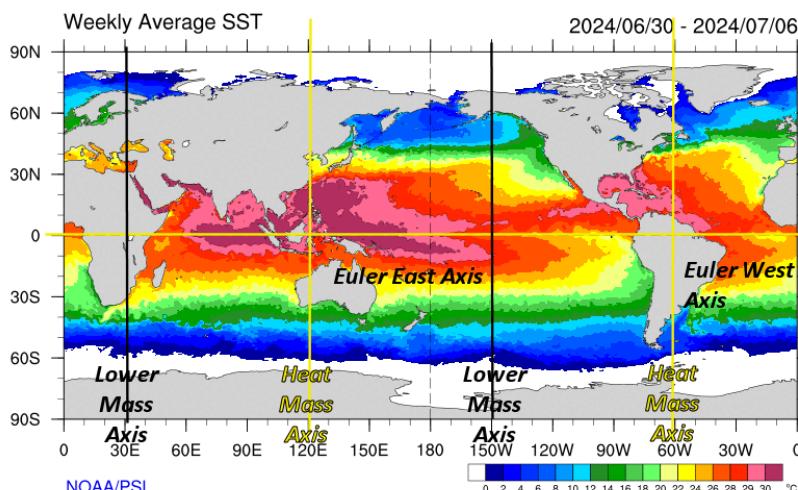


Exhibit E2 – Contrasting Orthogonal Euler Axis Heating
Centroids – align at 120°E/60°W longitudes. Oceanic heating centers on these East and West Euler Axes, which we also identify through other analytical approaches later in this article.¹⁷

Moreover, these Euler Axis geographic points both reside at the east and west centroids of sustained oceanic heating (ENSO or El Niño-Southern Oscillation events). We conjecture that this heat originates from the latent energy of phase-changing core hexagonal closepack iron (HCP-Fe) being introduced from the Earth's core and into its mantle.¹⁸

This mass adds to the overall mass of the maximum moment inside the Earth's 3-PIM rotational body, helping to



Americans
'Anecdote' –
The Cry of the
Pseudo-
Skeptic

42 Critical
Knowledge/
Experience
Qualifications
of a

Philosopher –
Ancient or
Modern

The Sophistry
Fallacy

The Ten
Endamnedmen
ts of Sol-
Nihilism

Qualifying
Theory and
Pseudo-
Theory

Calorie-Based
Diet Pseudo
Science
Proves False

The New
Debunker:
Pseudo-
Skeptic Sleuth

The Appeal to
Fallacy

The Eagle, the
Ape, the Horse
and the Lion

Denial and
Pseudo-
Skepticism are
Not the Same

precipitate a True Polar Wander event. The LLVP formations in contrast (Exhibit E), serve as a minimum axis, with the rest of the mantle forming a hot 3-PIM maximum-axis set (Exhibit E2). This matches as well, the [differential stresses of tectonic plates](#), between the Euler Axis zones and the remainder of the Earth's crust.¹⁹ When combined, these serve to gyroscopically compete with the magnetically coupled axis, as well as mitigate a pure 180 degree Dzhanibekov rotation departure from that geomagnetic axis.

As can be seen in Exhibit E, the central part of the African Large Low-Shear-Velocity Province (LLVP) lies beneath south tip of the African plate, with hotspots appearing to concentrate along the LLVP's boundary. In the mid-mantle, seismic tomographic models reveal broad slow seismic wavespeed anomalies beneath the African craton,²⁰ commonly interpreted to be heat plume upwellings from the outer core.²¹

*Take note that the African LLVP tapers with both the Rift Valley, as well as the 31st East Meridian through the Giza Plateau. This is significant.*²²

Exhibit F below shows a conceptual depiction of this minimum/maximum gyroscopic axis formed by the two LLVPs. It is extracted from the referenced Cottaar, et al. study, with our annotations shown in yellow and blue text/lines.



Thing

*Intuitionism:
Inference
versus Impulse*

*The Three
Types of
Reason*

*Ethical
Skepticism –
Part 9 –
Skeptive
Dissonance*

*Sign Posts on
The Road Less
Traveled By*
*Ten Reasons
People No
Longer Find
Skeptics
Credible*

*Formal vs
Informal
Fallacy and
Their Abuse*
Proof Gaming
*Discerning
Sound from
Questionable
Science*
Publication

*The Tower of
Wrong: The Art
of Professional
Lying*

*The Ten
Indicators of
Methodical
Genocide*
A Word About

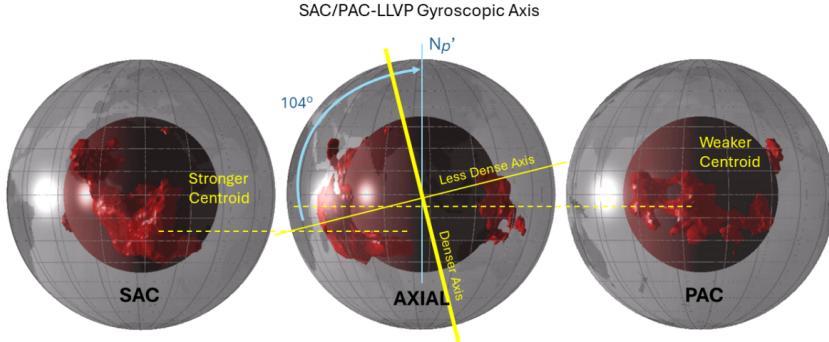


Exhibit F – Moment Map of Earth's Hidden Gyroscope –
Three perspectives of the LLVP structures under Africa and the Pacific, along with a conceptual depiction of the axis of gyroscopic moment (thick yellow line) based upon the South Africa Cusp centroid of the African LLVP.²³

However, in the interest of precision, let's examine a more objective and recent (2021 tomographic) measure of the geographic position of the South Africa Cusp – Large Low-Velocity-Shear Province (SAC-LLVP). In the extracted Exhibit G below, from the referenced Tsekhmistrenko, et al. 2021 study, one can observe the intersection of the cusp's radial centroid and the 31° E Meridian.

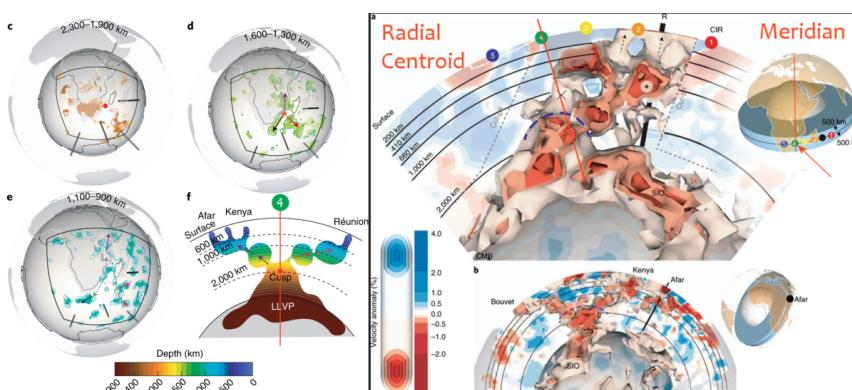


Exhibit G – South Africa Cusp Radial Center of Mass – 2021
tomography indicating the geographic position of the South Africa Cusp – Large Low-Velocity-Shear Province (SAC-LLVP). Please note that the red lines and annotations 'Radial Centroid' and 'Meridian' are our added highlights.²⁴

The reader should note that, while the longitude of point 4 (green ball) on the chart shown in Exhibit G above is arguably the 31st East Meridian, the same one upon which Giza is located, there exists a range



*Polls
And I Have Touched the Sky: The Appeal to Plenitude Error
Contrasting Deontological Intelligence with Cultivated Ignorance
Nurturing the New Mind: The Disruptive Nature of Ethics
The Warning Indicators of Stacked Provisional Knowledge
The Nine Features of Great Philosophy
Spotting the Humpty Numpty
The Joy of Sleight-of-Hand Manipulation
Differentiating Scientific Literacy from Social Propaganda
How Glyphosate Practices*

*of latitude inside which a center of LLVP lower density might be assigned. The north-south placement could range from 8 to 18 degrees south latitude. We chose 104° (103.5° +/- 1° or 13.5° South Latitude) for consistency in the specific scenario of conjecture here. As well, this angle corresponds to 90 degrees of cardinal rotation through Dzhanibekov effect, combined with a very reasonable and common 14 degrees of gross (not longitude dependent) magnetic pole variation (angle between core magnetic and rotational poles – under the same definition convention used in celestial navigation). Thus, one should note that this in no way constitutes a *petitio principii* appeal.*

Furthermore, regarding the argument of a 'lack of recorded history' for such Dzhanibekov shifts, consider this: if the Earth's geomagnetic core maintained its current orientation while a Dzhanibekov rotation occurred in the mantle and crust (Exhibit I below), such an event would be interpreted as a geomagnetic pole excursion in the field of paleomagnetism. This is due to our current methods of measurement. Over a prolonged period, we would not have the means to distinguish between a Dzhanibekov rotation and traditional geomagnetic pole shift (see note²⁵). Moreover, during a short Khafre-styled reversal of say 50 to 400 bitter cold, dark, and wet years, we might not be able to detect such a Dzhanibekov rotation at all, even in ice cores.

Our results support that time variations of [Core-Mantle] heat-flux heterogeneities driven by mantle convection through Earth's history are capable of inducing the significant variations in the reversal frequency observed in the palaeomagnetic record.

~ Frasson, Schaeffed, et al.; Geomagnetic dipole stability... December 2024²⁶

We posit therefore, that the centroid of the South Africa Cusp serves to act as the minimum gyroscopic-



Serve to
Increase Our
Diet Risk
Exposure

Lies of Which I
Disabused
Myself Along
the Way

Islam,
Corruption and
Socialism All
Relate in
Direct
Proportion to
Human
Suffering

Ethical
Skepticism –
Part 8 – The
Watchers Must
Also Be
Watched

What
Corporations
Do When
Bankrupt of
Ideas/Ethics

The Inverse
Problem and
False Claims
to ‘Settled
Science’

Abuse of the
Dunning-
Kruger Effect

The War
Against
Supplements
Continues to
Revel in
Harmful

Dzhanibekov axis point during a decoupling of Earth's mantle and core, serving to potentially rotate the Earth's gyroscopic mass along a new geographic axis of Earth rotation (N_p'), with the center of less-dense mass of the South Africa Cusp now pointing directly at the celestial North Pole (Polaris, Ursa Minor, etc.). The gyroscopic plane of higher mantle mass therefore would reside perpendicular to the LLVP axis, as depicted in Exhibit G above. The old geographic axis of Earth rotation (current 'North Pole') is also marked (N_p).

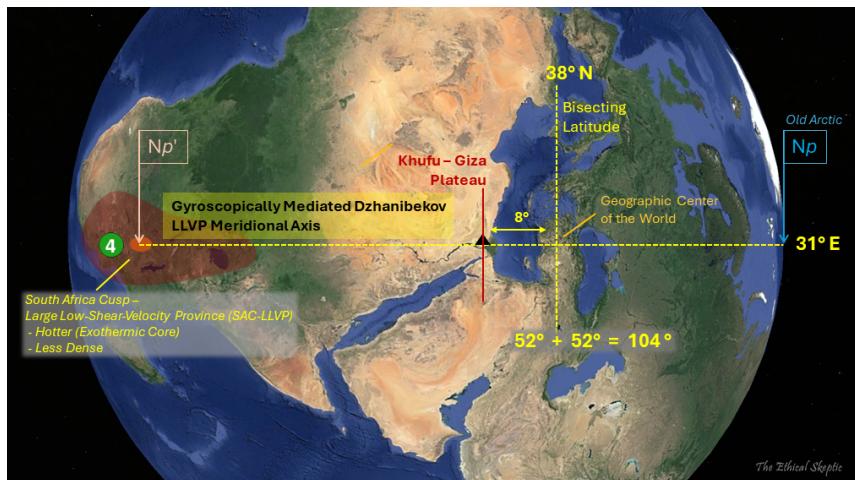


Exhibit H – Dzhanibekov SAC-LLVP longitudinal (meridional) center of cusp (less dense mass) in relation to the Giza Plateau meridian and North Pole. 104 total degrees, bisected with a mid-point in central Turkey – which just happens to also be the Geographic Center of the World.²⁷ This is no accident. This serves as the basis of an authentication, which will be examined in Exhibit L below.

Of a most curious note, 31° East, 38° North, the bisecting latitude location in Exhibit H above, which matches the Queen's Chamber on the right side of Exhibit L below – was regarded by the ancients as The Geographical Center of the World (until update by computers in 1973).²⁸ This explains why the two sets of star shafts in Exhibit L are depicted for this location in central Turkey, and for Giza. This is not a coincidence.

Nor is it an accident that Africa's Rift Valley falls right



Pseudoscience
Ethical
Skepticism –
Part 7 – The
Unexpected
Virtue of Allow-
For Thinking
Never Never
Land: Where
we Send our
Vaccinal
Generation to
Forget They
Even Exist
The Skeptic's
Guide to
Dismissing
Public Claims
of Illnesses
Foundation
Works on
Ethical
Skepticism
Deception
Through
Abuse of the
Post Hoc Ergo
Propter Hoc
Fallacy
Major Flaws
Within the
Neurodiversity
Movement
When
Observation
Gives Way to
Data-Centric
Only Science
We All Lose
When a Social

*on the 31st Meridian—as this is where the SAC-LLVP upwelling is occurring, which serves to form the light-moment axis of rotation in our proposed State 2, gyroscopic rotation, below.*²⁹

The principle shown in Exhibit H above is developed in terms of the physics of rotating bodies below. The special form of rotation proposed by this article, we call a Gyroscopically Mediated Dzhanibekov Rotation (last scenario on the right in Exhibit I below).

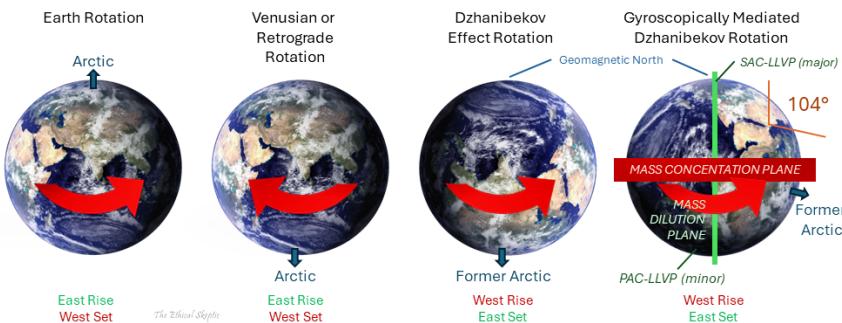


Exhibit I – Gyroscopically Mediated Dzhanibekov Rotation – not a retrograde rotation. What we postulate is a modified pure Dzhanibekov Effect rotation (Exhibit C), which does not complete fully – being mediated by the gyroscopic effect of the differential mass planes between the LLVP less dense axis versus the more dense surrounding mantle. This more dense body serves as a form of gyroscopic wheel, forcing the Earth's rotation to conserve momentum by taking on a gyroscopic stability priority, and neither a core-mantle coupled nor pure Dzhanibekov rotation. Note that the first two rotation concepts adhere to the ‘right hand rule’ of ‘Arctic’ polar definition. The latter two indicate the ‘former Arctic’ in each scenario.

Key inference to be taken from the rightmost two images of Exhibit I above: The science of paleomagnetism possesses no method to detect a Dzhanibekov rotation, as distinct from a geomagnetic pole excursion or flip. So an appeal to ignorance here, is worthless.

Perhaps another way to understand our proposal is illustrated in Exhibit I2 below, which outlines the various



*Skeptic Claims
to be ‘Science
Based’*

*Garbage
Skepticism:
The Definition*

*The
Correlation-
Causality One-
Liner Can*

*Highlight One’s
Scientific
Illiteracy*

*Irish Pennants:
The Nature of
Flawed versus
Sound
Definitions*

*The Nature of
Argument*

*The Ethical
Skeptic’s
Argument
Assessment
Checklist*

*No Promenade
in the Savage
Dance*

*The Kuhn-loss
Interplay of
Scientific
Revolution and
Resilience*

*The Warning
Signs that a
Social
Epistemology
is at Play*

*Islam Judaism
and*

possible types of georotational phenomena. We are specifically proposing the third scenario: one triggered by climate change (particularly oceanic heating), followed by scenario #2 (a “geomagnetic pole excursion”), cascading into a True Polar Wander event (#3) that relocates the georotational north pole (N_p') to southern Africa. The fourth scenario is included solely to clarify what we are not proposing—a tilt in axial obliquity. (Please note that “Polaris” means – celestial north pole)

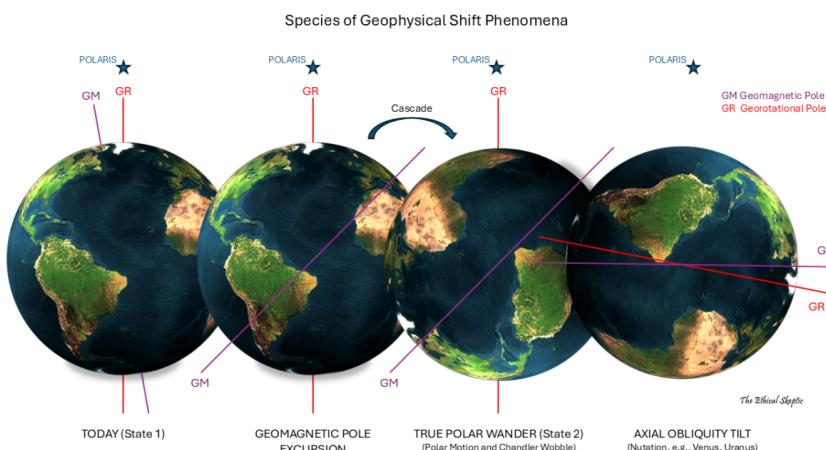


Exhibit I2 – Species of Geophysical Shift Phenomena

Now, let's take the modified scenario at the right end of Exhibit I above, and arrange it into the graphic extracted from the Cottaar, Lekic, et. al study which we examined in Exhibit F earlier.



Christianity:
 Time to
 Remove and
 Renounce
 Your Holy
 Verses
 Celebrating
 Violence

 The Celeber
 Cavilla Fallacy

 Are You a
 Cynic? You
 Might be
 Surprised

 The Best
 Snake Oil is
 One You Don't
 Even Realize
 is Being
 Peddled

 Ethical
 Skepticism –
 Part 6 – Say
 What You
 Mean and
 Mean What
 You Say

 No, I Won't
 Back Down

 The Dark Side
 of
 SSkepticism:
 The Richeliean
 Appeal

 On Being a
 Young Person
 Contemplating
 Joining a Faith

 SSkeptic
 Weapon Word

Gyroscopically Mediated Dzhanibekov Rotation

Appears as a geomagnetic pole excursion in cyclostratigraphic data

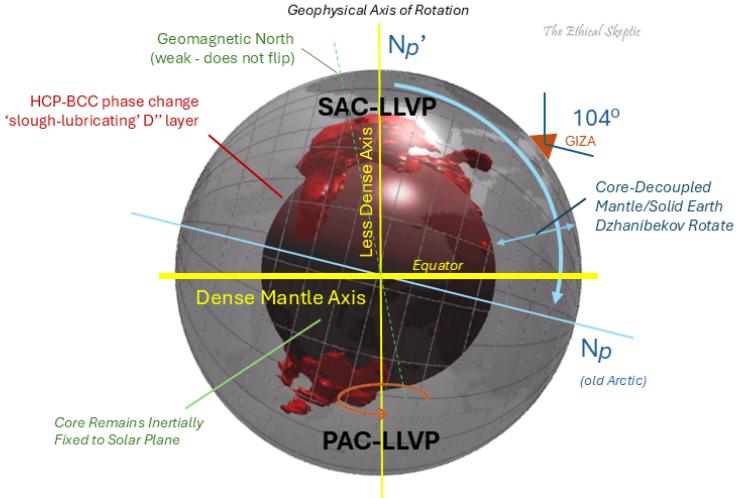


Exhibit J – The Solution – Inertial Interchange 104° True

Polar Wander (IITPW) – Internal schema of core, mantle, SAC-LLVP, and PAC-LLVP in relation to the Gyroscopically Mediated Dzhanibekov Rotation. The ‘mediation’ involves the intervention of the lighter moment of Earth’s mass distribution—composed by the net centroids of its LLVP structures, this becomes Earth’s new less-dense Conservation of Angular Momentum (gyroscopic) rotational axis.

The reader should note that in this scenario, geomagnetic north has not moved; rather, it is the mantle, asthenosphere, and lithosphere (crust) that have undergone rotation. The sloughing of the D'' layer acts as a lubricating mechanism between the core and the mantle, facilitating this process, much like applying duct tape to a ball of melting butter—it simply won’t adhere.

Earth’s core remains in its same stable rotation, locked relative to the solar plane by the solar system’s A (the vector potential) and ϕ (the scalar potential) moments³⁰ – albeit bearing a weaker magnetic moment, and with a slightly lower total mass.

The D'' layer affords the disconnect between the mantle and core’s rotating masses. We address the combined mass of the mantle and crust (mesosphere, asthenosphere, and lithosphere) as the outer rotational body (ORB), for short. (It should be noted that we hold open the alternative possibility of a similar decoupling at the H-layer inside the mantle as well. Same principle of rotation applies however in both decoupling scenarios.)



*Top 25**The (Ethical
Skeptic)
Definition of
God**Deconstructing
the Rhetoric
around What
Constitutes
Pseudoscience**Gaming the
Lexicology of
Ideas through
Neologism**Popper
Demarcation
Practice and
Malpractice**The Art of
Rhetoric**How You
Persuade
Makes All the
Difference**How You Say
It Makes All
the Difference**Corber's
Burden of
Skepticism and
The Omega
Hypothesis**The Burden of
Proof (in
Gumballs)**Oh, Those
Darned
Narcissists**The Five*

Based on The Solution depicted in Exhibit J above, we consulted the NASA Earth Observatory Gravity Anomaly Maps and the Geoid (GRACE) reports repository, extracting the geoid image shown in Exhibit J2a below. I have added the elucidating annotations to this raw image. Our prediction of a Dzhanibekov three-moment problem, comprising Earth's major moments and their axes, proved to be correct.³¹

Below are the three moments (as depicted):

- **I₁ (maximum inertia – blue)** is along the equatorial plane (widest point).
- **I₂ (intermediate inertia – red)** is another equatorial axis perpendicular to I₁.
- **I₃ (minimum inertia – yellow)** is the new polar axis (north-south rotation axis).

As the reader may notice below, a rotational geographic polar alignment along an axis passing through southern Africa fits a gyroscopic-equilibrium rotational model more cleanly than does our current rotational state, where a more massive I₂ aligns with our rotational axis (a less-stable gyroscopic state). This sets up a high torsional or differential rotational stress as part of the physics inside our current state of rotation (State 1, outlined later in this article). Some means of State 1 capture, by means of geomagnetic field, is postulated in this article.



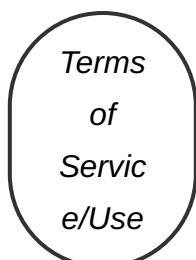
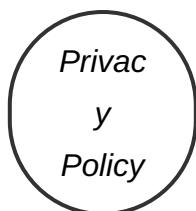
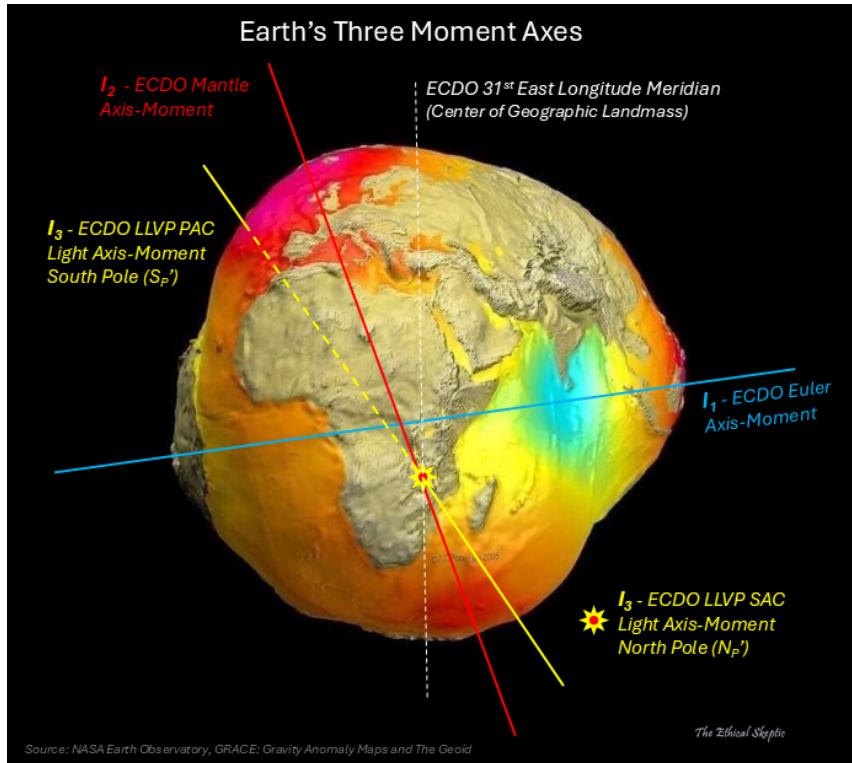
[Types of Null](#)[Hypothesis](#)[Error](#)[Wittgenstein](#)[Error and Its](#)[Faithful](#)[Participants](#)[Rationality is](#)[Not What](#)[False Skeptics](#)[Portray](#)[The Rising](#)[Age of the](#)[Cartel: Your](#)[Freedoms](#)[Were Simply](#)[an Experiment](#)[A Mediocracy](#)[in 4.0:](#)[Discounting](#)[College](#)[Acceptance](#)[Aptitude](#)[Testing is a](#)[Grave Error](#)[Contact Email:](#)

Exhibit J2a – NASA Earth Gravitational Model (EGM2008)

ECDO Three-Moment Geoid Map – the three-moment Dzhanibekov-ECDO problem is both clearly outlined here, while our specific moment-axes predictions are confirmed by the mass-gravitational signatures detected by NASA. All annotations are added by this article's author.

A history of this type of rotation we propose here, along with the precedent scientific study for this geophysical moment alternative approach to Earth's rotational dynamics is outlined in Kirschvink, et al. 1997. Relevant conclusions from that study are cited below.

Early to Middle Cambrian inertial interchange true polar wander event, during which Earth's lithosphere and mantle rotated about 90 degrees in response to an unstable distribution of the planet's moment of inertia.

...at least two tectonic plates, involving more than two-thirds of Earth's continental lithosphere, were involved in a rapid rotation of ~90° relative to the spin axis. The new ages, along with paleomagnetic data, indicate that continents moved

theethicalskept
ic@yahoo.com

that are difficult to reconcile with our present understanding of mantle dynamics. A variant of this mechanism, inertial interchange true polar wander (IITPW), involves discrete bursts of TPW of up to 90° in geologically short intervals of time if the magnitudes of the intermediate and maximum moments of inertia cross.

This would result in a ***rapid movement away from the spin axis by the geographic location of the former pole with rotation of the entire solid Earth centered about the minimum moment of inertia*** located on the equator. If the velocities are due to TPW, however, such geodynamical considerations are obviated because ***the entire mantle would have rotated along with the lithosphere.***

~ Evidence for a Large-Scale Reorganization of Early Cambrian Continental Masses by Inertial Interchange True Polar Wander, Kirschvink et al. (1997)³²

With 'The Solution' identified now in Exhibit J and confirmed by NASA geoid moments depicted in Exhibit J2a, forgive me, dear reader, as I must ask you to endure one more complex graphic. This graphic describes the entire set of physics behind the oscillation (repeating cycle) of Dzhanibekov rotation. Exhibit J2b below presents the pair of Earth rotational conditions and further outlines the physics involved in each state: Geomagnetic Priority and Gyroscopic Priority.



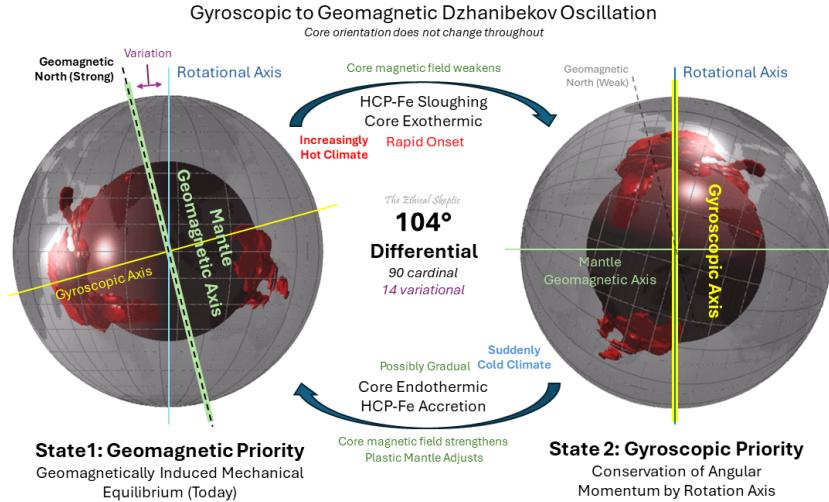


Exhibit J2b – The repeating cycle of core exothermic sloughing followed by subsequent endothermic accretion creates a repeating oscillation based on the variable strength of the geomagnetic moment of the Earth's core (green annotation above). This process operates through the Dzhanibekov effect and the Earth's mantle's gyroscopic angular momentum. We speculate that the process of moving from State 2, Gyroscopic Priority, back to State 1, Geomagnetic Priority, may involve a viscoelastic-mantle tectonic height readjustment and **gradual settle-in process**, however involving a relatively sudden cooling event at the point where the core recaptures its HCP-Fe lattice integrity.

State 1: Geomagnetically Induced Mechanical Equilibrium (Core-Mantle Coupled)

- Description: In this state, the gyroscope's axis of spin is aligned with the applied magnetic field, and the weighted wheel is not rotating around the spin axis. The system is stable due to the magnetic forces, resulting in a balanced, equilibrium state. At the end of this cycle, the world heats (exothermic core) steadily before rotation to State 2.

State 2: Conservation of Angular Momentum by Rotation Axis (Core-Mantle Decoupled)

- Description: When the external magnet is removed, the gyroscope wheel returns to its plane of rotation (which has not changed in either State). In this state,



the gyroscope conserves angular momentum through its true rotational axis (I_3 , see Exhibit J2 above), with the magnet decoupled, allowing the rotational motion to resume. The world grows cold (lattice-snaps to endothermic core) very fast.

My hypothesis on how the Earth's M-field is generated by the macro-alignment of the hexagonal close-packed anisotropic lattice c-axis microstructure in the inner core, and how disruptions in the plasmolid (plasma-solid) core can weaken or oblique the geomagnetic M-field, can be explored by [clicking on this image](#). I originally developed this hypothesis in 2010 while leading an exotic materials research lab.

These two rotations (S1-to-S2 and S2-to-S1) and the sudden endothermic cold climate onset, reasonably fit the myth of Pöqánghoya and Palöngawhoya, in *The Book of Hopi*:

So again, as on the First World, Sótuknang called on the Ant People to open up their underground world for the chosen people. When they were safely underground, Sótuknang commanded the twins, Pöqánghoya and Palöngawhoya, to leave their posts at the north and south ends of the world's axis, where they were stationed to keep the earth properly rotating.

The twins had hardly abandoned their stations when the world, with no one to control it, teetered off balance, spun around crazily, then rolled over twice. Mountains plunged into seas with a great splash, seas and lakes sloshed over the land; and as the world spun through cold and lifeless space it froze into solid ice.

~ *The Book of Hopi*, Frank Waters

Footnote on True Polar Wander and Khufu Alignment:

Concerning the contention that a return from  2 would not likely result in Khufu being aligned so precisely to true north upon

resumption of State 1. Multiple dozens of global large-scale cardinally-aligned monuments—most in fact—do not agree with Khufu and Khafre as to ‘true north’, however, they agree with each other—so what do we do with those monuments, toss them out in order to protect a fairy tale?³³

This plausible (or arguably probable) oscillation, along with the mythic traditions of over 20 cultures, serve to broach the critical path question: Why does such an event not show up in the paleomagnetic or ice core sample data?

A Geologic Appeal to Ignorance? Maybe Not...

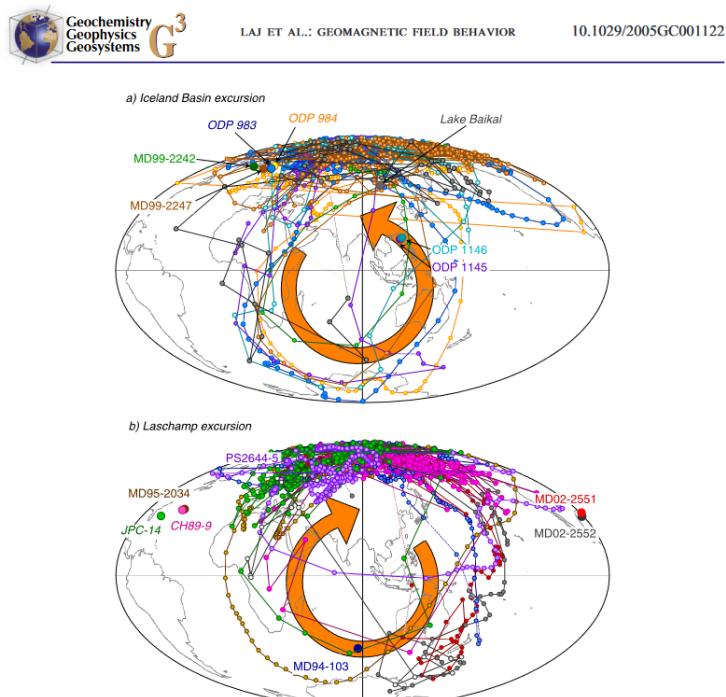


Figure 8. All of the VGP paths shown in Figure 7 are superimposed for (a) the Iceland Basin excursion and (b) the Laschamp excursion. Records reported in the literature are also shown. The large orange arrows illustrate the sense of looping, which is common to all records from each excursion. The loops are counterclockwise for the Iceland Basin excursion and clockwise for the Laschamp excursion.

Figure 8 – Laj and Lund Studies on Geomagnetic Excursion Histories.

While researching this issue, I found that most paleogeomagnetic dipole moment studies unfortunately reside behind annual subscription paywalls. Nonetheless, I discovered that the typical temporal resolution of these studies is on the order of two to four thousand years at best.³⁴

Nonetheless, the bottom line is this: aside from the

Leschamps excursion event 41,000 years ago, we lack strong differential data (unique from static measures) on the history of Earth's dipole moment. However, what macro-scale data we do have links mass and large-fauna extinctions with dipole phenomena at the very least.

From what we know about field strength through time, over the last hundred thousand years, there does appear to be a linkage between extinctions and low geomagnetic field strength.

~ James Channell, University of Florida Geologist,
NPR³⁵

It is worthy to note however, that two recent geomagnetic excursions, the 41,000-year-old Laschamp Event (lower panel of Figure 8) and the up to 187,000-year-old Iceland Basin Excursion (upper panel of Figure 8) paleomagnetic core records, followed a Virtual Geomagnetic Pole (VGP) progression that conformed to the 31st Meridian polar shift conjectured in this article. See both progressions in Figure 8 from that study, to the right. Notice that both excursions followed the same geographic route, which was drawn to the SAC-LLVP Cusp as each event progressed, eventually reverting back to State 1 (clockwise) or to State 2 (counterclockwise)—both along the 31st Meridian.³⁶ The Lund Study on the Laschamp and Iceland Basin Excursions shows similar pathway derivations to the Laj Study as well.³⁷

Note as well that the Laschamp excursion from State 1 to State 2 initiated with a change in geomagnetic pole geographic location, starting from Canada and moving into Russia, a pattern that also began for our modern era in 1973.

It is important to note that, under this hypothesis, the period during the shorter duration of State 2 does not constitute



'business as usual, just upside down.' The pronounced volcanic activity and ocean displacement would make the world a cold, wet, and dark place during the intervening years of decoupled rotation. In other words, Greenland, Antarctic, and Lake Vostok ice cores and the resulting accelerated carbon-14 deposition rate may not clearly reflect the net impact of such a short and cold rotation period. I tend to place more inferential confidence in human myth with corroborating physical evidence to the presence (Euler Axis desert hashmarks), than in the mythological precision of a smoothed index suggesting an absence.

Earth Bears the Euler Axis Hashmarks

Finally, below is a short video illustrating the concept of the Mediated Dzhanibekov Oscillation between Geomagnetically Induced Mechanical Equilibrium (State 1) and Conservation of Angular Momentum by Rotation Axis (State 2). Special thanks to Craig Stone at nobularart.com for developing this video. Before proceeding to the next section, please pay particular attention to the location and celestial pole angles of the Great Pyramid at Giza depicted in the video.



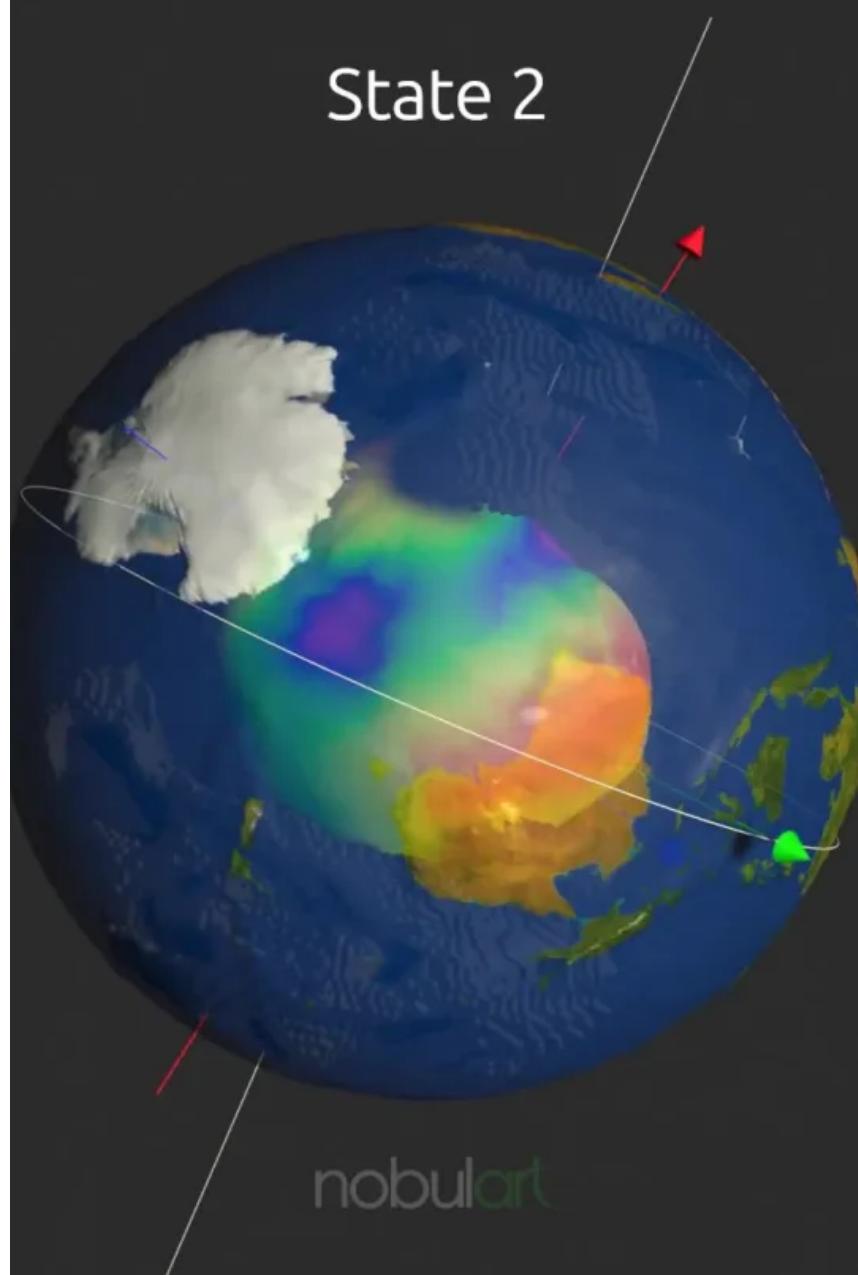


Exhibit J3 – Mediated Dzhanibekov Oscillation with the rotational north axis cycling between 90° North (State 1) and 14° South (State 2) latitude (104 degrees) along the 31st East Meridian of longitude. The lever driving this cycle is the strength of the core's magnetic moment. We currently rotate in State 1, with a strong-but-diminishing geomagnetic moment. The only thing in the video which differs from the hypothesis presented in this article is that the core of the Earth would not Dzhanibekov rotate with the outer rotational body (ORB = mantle + crust). It would continue to rotate as it does in State 1. This georotational concept was confirmed by [Exhibit J2a above](#).



The ECDO rotation shown in Exhibit J3 is consistent with the major oceanic-inundation desert formations across the globe, including the [Gobi Desert](#), [American Southwest](#), [Great Victoria Desert](#), [Patagonia](#), and the [Sahara Desert](#).³⁸

³⁹ The Arabian Desert may well have occurred as the result of a settle-in process unique to the [Arabian Tectonic Plate](#) after or during return to State 1. Hence the seemingly more recent receding shorelines back to the Persian Gulf.

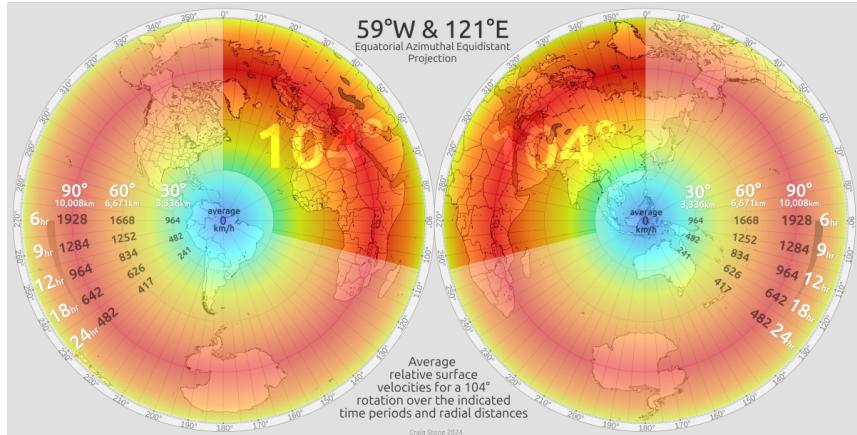


Exhibit J4 – West and East Euler Axes – a violent 48 hours.

The axis around which the Earth would temporarily rotate to shift the geographic North Pole to the new location (N_p').

Indicated on the chart are the theoretical initial oceanic inertial velocities at original angular momentum and the resulting deserts and striations which would form from such an oceanic displacement. It is no coincidence that human, fauna, and flora genetic diversity is greatest at these two ‘eye-of-the-hurricane’ stability points (blue areas) during a 104° ECDO rotation from State 1 to State 2. Sub-Saharan Africa as well is partly spared due to its shielding by the North African continental mass and high deserts as well as its variances in land mass elevation.

Special thanks again to Craig Stone at nobulart.com for developing this image (click image to expand).

Moreover, the ‘East and West Euler Axis Mundi’ (demarcated by the green arrow vector in Exhibit J3 and yellow/red \oplus symbols in Exhibit J4) are the points at $(0^\circ, 121^\circ E)$ and $(0^\circ, 59^\circ W)$ respectively, representing the axis around which the Earth would temporarily rotate to shift the geographic North Pole to the new location (N_p') at $31^\circ E, 14^\circ S$. This terminology aligns with the concept of Euler’s



rotation theorem,⁴⁰ describing the temporary orthogonal axis of rotation for this specific geophysical event. Deserts formed from oceanic displacement, along with the terrestrial striations from this kinetic event, cleanly match both poles of the Euler Axis Mundi.

Depiction of Euler Axis Mundi West Survival Points West Axis

Depiction of Euler Axis Mundi East Survival Points East Axis

Craig Stone has pointed out as well that past geomagnetic pole excursion events have [clustered on both the East and West Euler Axis Meridians](#) we identify immediately above.⁴¹ This is not a coincidence.

Model Prediction: Survival of Genetic/Biological Diversity Clusters at Euler Axes



One should note that the optimal location for inundation-survival in the Western Hemisphere under this scenario, would be the [Ecuadoran and Peruvian Andes](#), along the coast just west of the Euler Axis in South America. From the perspective of the East Euler Axis, a similar location for survival of such an event would reside at [Sulawesi](#) and



Gunung Padang, Indonesia.

Perhaps this is the reason why the [oldest cave art in the world](#) (51,200 years old) can only be found at Leang Bulusipang, Sulawesi⁴² – which is a cave at an altitude of 1800 feet positioned right on the East Euler Axis.

Perhaps as well, this is why we find Mankind's oldest surviving genetic components, originating near the East Euler Axis in the forms of [*homo floresiensis*](#), the [extraordinary genetic distribution of Indonesia](#), along with our most ancient genetics in the Papuan, Austronesian, [Orang Asli \(Semang\)](#), and [Andamanese Aborigines](#). Ample and recent genetic study using mitochondrial DNA and Y-chromosome data, such as those published in *Nature Genetics*, *American Journal of Human Genetics*, *Investigative Genetics*, and *Nature*, have shown that Indonesian populations are among the most genetically diverse in the world. Finally, these genetic clusters show clear [association with the most ancient Amazonian tribes](#) existing along the West Euler Axis as well.

Notwithstanding the environment of Sub-Saharan Africa which was shielded by the Saharan high desert, these two Euler Axis locations are [the](#) most genetically diverse (across all species) locations on the planet. We believe this to be no coincidence.



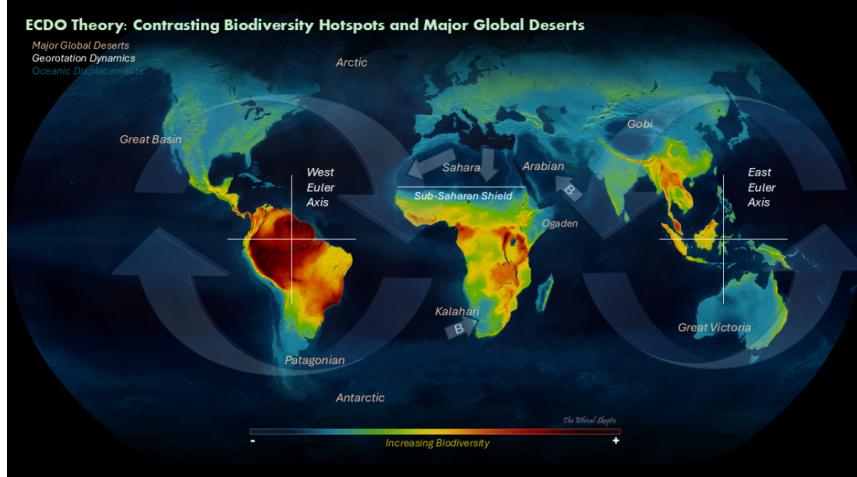


Exhibit J5 – Desert versus Biodiversity – The biodiversity model confirms the survival points at each Euler Axis geographic location, complemented by regions of the African continent that were shielded from inundation by the landmass now known as the Sahara desert. Genetic diversity in these areas is both strikingly varied and ancient when compared to the rest of the Earth. The two oceanic displacements marked with a 'B' are proposed post-rotation back-flows. This georotational prediction was confirmed by [Exhibit J2a above](#).

Amazingly, according to a study by P. Skoglund, et al. “Two Founding Populations of the Americas” (Nature, 2016),⁴³ as well as Graham Hancock in Episode 2 of Season 2 of his [Ancient Apocalypse](#) series, humans at both Euler Axes depicted in Exhibit J5 bear the same common genetic signatures that the rest of humanity does not share.

Indeed, Zeng, et al. “Neolithic Y-chromosome Bottleneck” (Nat Commun, 2018) cites a 20 to 1 reduction (bottleneck) in human Y-DNA genetic diversity, sometime between 3,000 to 5,000 BCE.^{44 45} Despite all the pretend science, hyperbole, and wishful thinking, no disease, famine, cultural or conquest practice, war, or cosmic impact could possibly account for the ubiquitous nature of the effect outlined in Exhibit J6 below. While various circumstances could possibly explain a small subset population exhibiting such a DNA contrast, none can account for the global distribution of the phenomenon described below—save one.



Only a quasi-anticipated global inundation (or two such events from 13,000 to 4000 BCE as indicated below) could account for this DNA progression observed in the male Y chromosome.

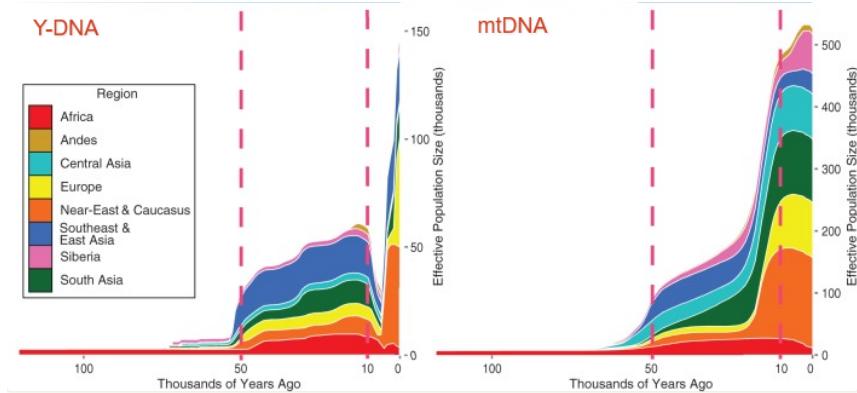


Exhibit J6 – 19 in 20 genetic males were culled between 3,000 to 5,000 BCE (Zeng, et al.), yet this pattern does not replicate in mtDNA (female) progressions (Karmin, et al.). There is only one plausible explanation for this as a global phenomenon: an anticipated cataclysm, during which a single male lineage preserved its household—along with a variety of female captives, servants, slaves, and concubines.⁴⁶ It is important to note that the Zeng et al. study does not concur with the luxurious 10 ky decline depicted above (this would involve a solely genetic cause, as well as a set of plainly evident and confirmational allele makers), and instead attributes the majority of this drop as occurring between 3000 to 5000 BCE. We tentatively match this to our provision timeline date of 4400 BCE for the ‘Flood of Noah’.

The chart in Exhibit J6 above (brought to my attention by Ben Davidson, Founder of SpaceWeatherNews) shows the compression in human regional populations (ergo DNA as well) that occurred at this time, also indicating that the Caucus and Africa regions were spared from the total brunt of this calamitous event (due to the ‘Sub-Saharan Shield’ as shown in Exhibit J5 above), while Europe and Southeast Asia populations rebounded quickly thereafter, having not been salted by the oceanic inundation (see Exhibit J7 below).⁴⁷ Couple this with the fact that the surviving ancient human genetic signatures are shared exclusively at each



Euler axis and coincides, both geographically and temporally, with peaks in animal and plant genetic diversity, and you hold precisely the kind of extraordinary evidence Carl Sagan once championed.

Finally, if one surveys the location and density of salt infused land globally, this geographic distribution conforms to the same predictions we have made inside this hypothesis.

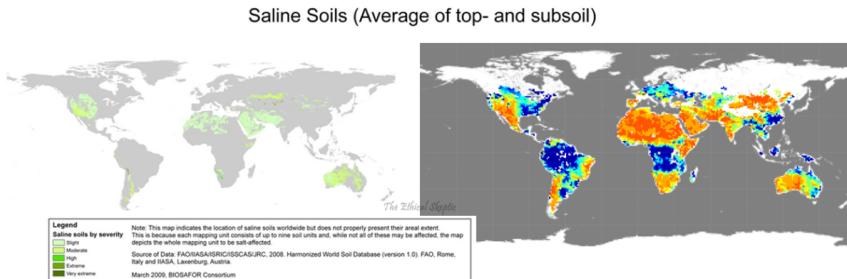


Exhibit J7 – Saline Soils Global Distribution – matches the Euler Axis rotation concept we have predicted and outlined in this section of the article.⁴⁸

We close this section of hypothesis predictions now, with commentary on the part of ChatGPT-4o.

Chat GPT-4o prompt: “ChatGPT, forget that you are aware of The Ethical Skeptic’s ECDO Hypothesis and its detailed description. If the Exhibit J5 and J6 depicted global desert, soil salinity, and biodiversity concentrations were all constrained and/or formed by a single event, regardless of what you have been taught regarding that event’s prior plausibility or likelihood, what event would possess both the kinetic energy potential and elegance to explain this global distribution of desert versus biodiversity?”

ChatGPT-4o Answer: “Oceanic displacement from a global crustal slippage or core-mantle decoupling rotation.”

As our discussion transitions from geophysical analysis to mankind’s related history and mythology 

segue by noting that the ECDO rotational construct outlined thus far is consistent with detailed descriptions of events as related by ancient cultural legends, as will be seen towards the end of this article. Meanwhile, to wit:

When the water god Gong Gong saw that he was losing, he smashed his head against Mount Buzhou, a pillar holding up the sky. The pillar collapsed and caused the sky to tilt towards the northwest and the earth to shift to the southeast.

~ Chinese Nüwa Indundation Myth⁴⁹

In fact, in the State 1 to State 2 transition depicted above, China rotates in exactly this fashion.

Finally, confirmation of the 104° true polar wander, the lynchpin of this hypothesis, can be found by examining the azimuth differential contained in ancient stone circles and monuments.

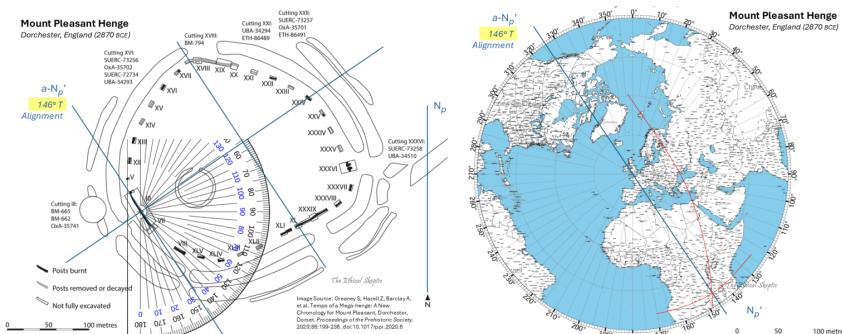


Exhibit J8 – the oldest known stone circles in Britain, the oldest dating to the fourth century BCE – both feature critical alignment ($326^\circ/146^\circ$ T) to N_p' as it is defined in this ECDO hypothesis (geographic location of the postulated 104° true polar wander).

As one may observe in Exhibit J8 above, the earliest known large circular enclosure in Britain, The Flagstones in Dorchester, England, dating from around 3200 BCE (site activity began 3960 – 3400 BCE), bears a marked antipode axis ($a-N_p'$) of $326^\circ/146^\circ$ relative to true north, which corresponds to the geographic location of N_p' in this hypothesis. Its sister site, just a couple hundred meters to



the east, the Mount Pleasant Henge (2870 BCE), is also critically based upon a [326°/146° True alignment and orientation](#) (aligned to N_p') as well.^{50 51}

As a side note, while a [detailed study of Stonehenge 1](#) does not reveal a clean match to the requisite 147° T bearing (for its geographic location) to N_p' , its study is a fascinating exercise unto itself. The original Stonehenge – 1, dating to 3100 BCE, is really a 56 Aubrey segment, 224 degree, 3-Saros cycle, Moon circle, with a Sun circle superimposed upon it.

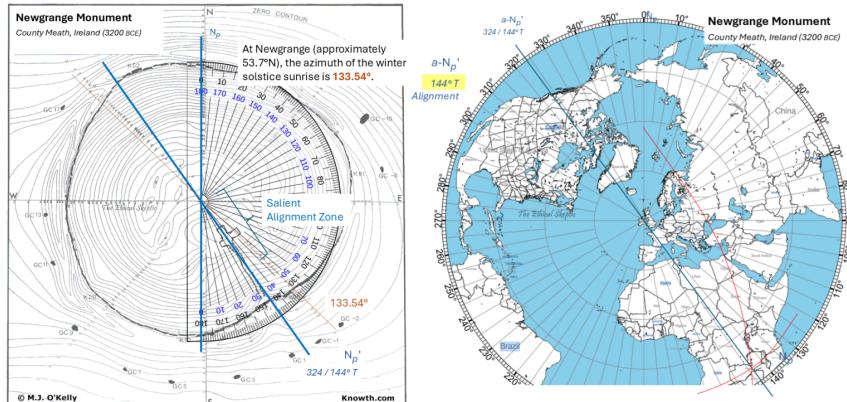


Exhibit J9 – contrary to the official Narrative, the passage inside the Newgrange monument in County Meath, Ireland is not aligned to the rising of the sun at the winter solstice. It is aligned to N_p' in the ECDO Hypothesis.^{52 53}

In Exhibit J9 above, one can see that the main passage of the Newgrange monument (3200 BCE) clearly is not aligned with the rising sun for the winter solstice. It is aligned with N_p' inside this hypothesis.

It is evident, therefore, that humanity in the fourth century BCE held a profound fascination with the celestial location of N_p' and its true bearing from their ancient homelands.

Finally, possibly the earliest known spiral depiction on European soil—found at the Maltese Hagar Qim Temple from the Ggantija period (3600–3200 BCE)—is shown in Exhibit J10 below.⁵⁴ This early use of the spiral motif likely



provides insight into the purpose of these ubiquitous symbols found throughout Scotland, Ireland, and the rest of Europe. The left side of the carving represents the sky's rotation around the north celestial pole in State 1, while the right side depicts the same star field's rotation in State 2. The chiseled dots within the motif were not arbitrary; they symbolized stars in the northern sky.

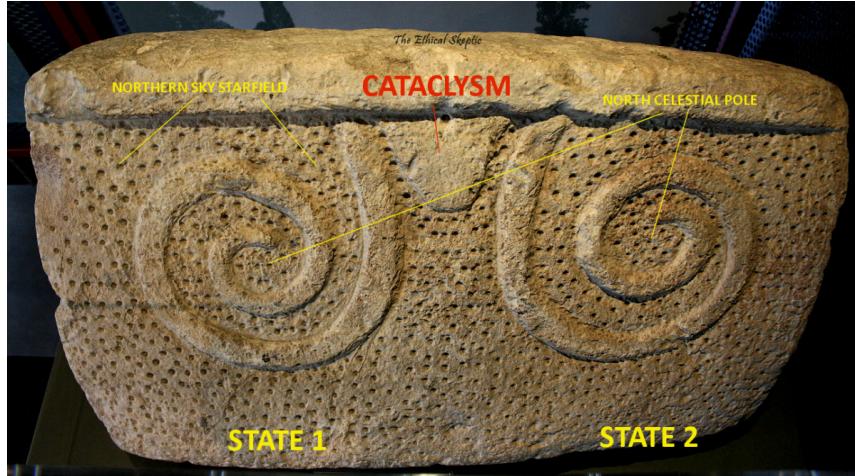


Exhibit J10 – the earliest spirals from Malta's Hagar Qim Temple of the Ggantija period (3600–3200 BCE) convey their message far more clearly than the generations of spirals that followed across Europe.

The reader should notice that the relative elevation of the north celestial pole above the horizon appears to be the same for both States 1 and 2 in Exhibit J10 above. This would indeed have been the case for Malta, as it bisects the 104° shift proposed by this ECDO hypothesis (see Exhibit J3). To this author, this first spiral stone, stands as the meaning behind the more fanciful depictions that followed thereafter.

However, no monument better aligns with and corroborates this postulate than the Great Pyramid of Giza, also known as the Khufu pyramid—the unrivaled king of all ancient monuments.

The Prescience of Giza: Khufu Finally Solved



There's only one sound reason to build an impossibly large structure—and it is not to generate power, serve as a monument, manufacture chemicals, channel celestial energies, or validate religious mathematics. Instead, its purpose would be to detect the onset of a critical threat to our survival and to warn future generations.

Why an impossible pile of cut stones? The labor of those who toil for mankind's survival endures far longer than the fleeting schemes of those who would shackle it to subjugation and suffering. Thus, a vast and immovable heap of carefully hewn stones—patterned with purpose, encoded with meaning—stands as a sentinel against time, treachery, and tide. While every other form of artifact can be burned, defaced, buried, or stolen – no motivation could conceal this, no deluge erase its testament. For the darkness, slothful and unyielding in its self-indulgence, cannot summon the will to disassemble what was forged with the resolute hands of light.

Sir Isaac Newton possessed a deep instinct and fascination with the idea that the Great Pyramid of Khufu might encode ancient knowledge, including measurements linked to biblical prophecies or cataclysmic cycles.⁵⁵ Yet, despite his curiosity, he never fully developed a formal hypothesis or structured theory around this notion.

The logic and implied probability behind this theory are sound, especially in the context of re-evaluating ancient structures with an eye toward functionality vs cost over symbolic purpose alone. It's as though every possible explanation has been presented, no matter how far-fetched, except for the single one that aligns most elegantly with the pyramid's enduring structure and meticulous design.

~ ChatGPT-4o

Below, we have gathered the insights drawn from the 

observations outlined above and assembled them into a comprehensive and elegant interpretation of the schematic design of the Khufu Pyramid—an effort Newton once began to entertain but never completed.

In agreement with Sir Isaac's sharp instinct, below, the reader may grasp why such a monumental endeavor as the Great Pyramid itself might have been shrouded in apparent silence. This was no mere feat of construction, but a task of utmost importance for the survival of future generations. The monument itself inspired a profound sense of purpose in every engineer, superintendent, and laborer. It was not just about building a pyramid; it was about safeguarding information critical to the legacy and continuity of mankind—in a manner which could not be erased or stolen.

The popular fairy tale that this pyramid was the burial chamber of Pharaoh Khufu has been sufficiently falsified.

In the broader scheme of things, wonder, as it turns out, is more vital than mere Narrative.

The monumental work around the [Exothermic Core Cycle](#) addressed by this structure may even continue to this very day. Although not definitive, the symbology below suggests a purpose for the purported activity in the anomalous structures found in Antarctica. Has this group(?) been successful in their quest? I do not know the answer to this; however, I do know that those who lie to cover this up do so under the contexts of [control](#) and [malice](#).



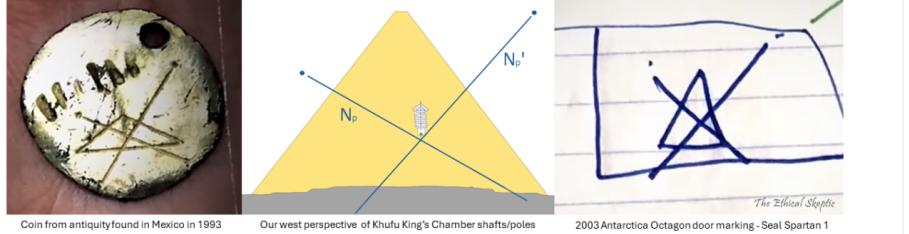


Image 2 – US Navy LCDR Seal ‘Spartan 1’ Anomalous Finding Markings – marked into the door or the ‘Octagon,’ Antarctica, 2003 (right panel). Matched to a coin from antiquity found in Mexico in 1993 (left panel) – possibly suggesting a 6,000-year cycle. Matched as well to both N_p and N_p' as depicted in our argument below (center panel). Left and right panels are from [this 2019 production](#) by Linda Moulton Howe. Center panel is an east-facing perspective (the same direction that the Sphinx gazes) of Exhibit K below.

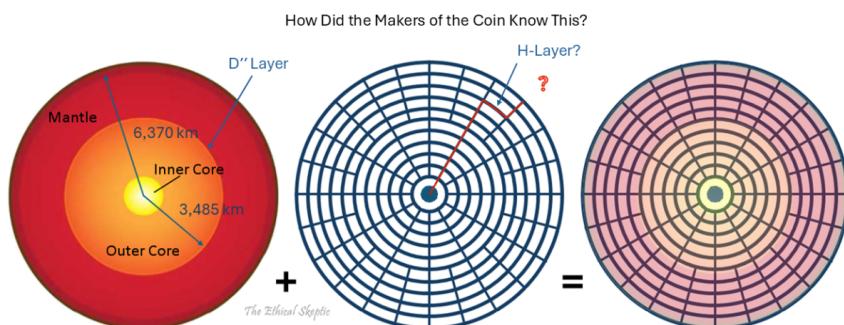


Image 3 – Reverse Side of Coin – The coin in the left panel in Image 2 above has a reverse side with a radial symbol stamped into it. That symbol is recreated in the central panel of this, Image 3. The coin proportions exactly along the 55% radius of the Earth’s core and the 19% radius of the Earth’s inner core, in relation to its whole body radius. This makes the core arguably 30 to 40% of the Earth’s total mass, depending upon the phase state, lattice, and density assumptions employed. This raises the question, how did the maker of the coin know this? Note that the Black Sun symbol could be interpreted to suggest a decoupling at the H-layer instead of the D'' layer as we propose in this article.

The back of the coin shown on the left side of Image 2 above is stamped with a radial diagram divided into 12 and then 24 segments in radial progression (Image 4 to the right). That radial pattern is recreated in Image 3 above. If we recreate this symbol according to even proportions, the



symbol
matches
the radius
proportion
of the
Earth's
core in
relation to
its entire
body.
While the



Image 4 – Back of Coin Matched to Antarctic Door Symbol – Symbol also found by Spartan 1 in Antarctic ‘Octagon.’ Top coin found in Mexico in 1993. Bottom coin found by metal hunter in Mulberry, Florida in 2024. This was a widespread program.

hypothesis below does not depend upon this observation, it is certainly intriguing.

To further compound the mystery of this coin, a second example was discovered in 2024 by metal detectorist Timothy S. Kelly in a field near Mulberry, Florida.⁵⁶ A third coin, reported by another participant in the same discussion thread, can be seen in [this image](#). While the coin could conceivably have been a promotional item from some long-forgotten campaign, these artifacts were not machine-made. Who would invest such significant artisan labor and non-gold metal resources into what would amount to a child’s trinket or meaningless bauble?

Though the coins shown in the top and bottom panels of Image 4 are not the same individual specimen, they were clearly struck from the same die. One can therefore reasonably speculate that a broade
 may have

been underway at the time these coins were produced—one involving a Khufu-like pyramid and a curious focus on the relationship between Earth's core and mantle. A rather sophisticated level of design, expense, and geographic footprint for what would have to be a multi-decade and exorbitantly costly hoax.

Perhaps the additional symbol found by Spartan 1 on the same 20 ft door in the Antarctic Octagon (upper right panel of Image 4) was suggesting a shift in the positional relationship between the core and its mantle? Possibly the core reversing its relative motion with the mantle as of late indicates that someone (I make no conjecture as to 'who') is achieving success?⁵⁷

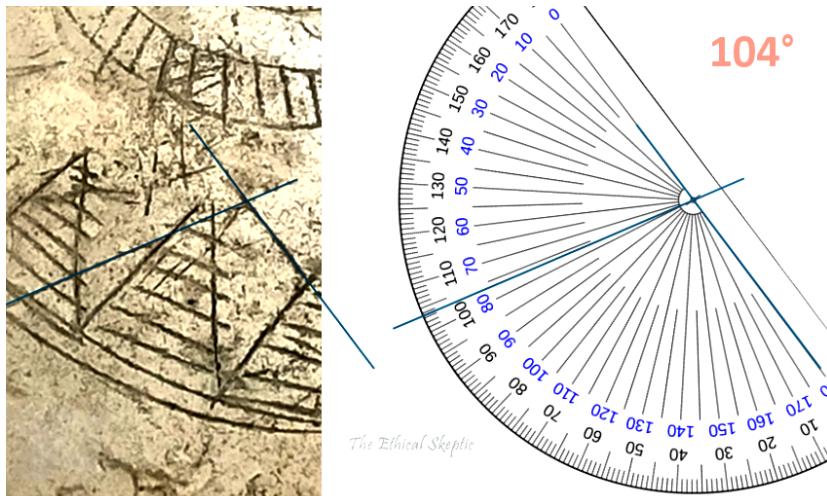


Image 5 – 6,500 year old Nubian Ostrich Egg.

Are such markings analogous to the 104° angle marks on the three pyramids etched into the surface of the 6,500 year old Nubian Ostrich Egg as well (which we outlined in our previous article, *Hidden in Plain Sight*)? Was this principle of a celestial pole observation function of Khufu well known in antiquity? This is all of course, mere speculation, and the angle marks on the egg could simply be coincidence. Nonetheless, something of this nature was being communicated by the markings on the Nubian Egg. The etching strikes were deliberate and related to the three



pyramids to the sky in some manner.

Returning to our critical path, scientist and amateur investigator alike have long wondered why the Khufu Pyramid has been positioned so tantalizingly close to the center of Earth's landmasses⁵⁸ and the 30th North Parallel (reader please be aware that, in the vernacular of celestial navigation, a latitude is called a 'parallel' and a longitude is a 'meridian'). Khufu's positioning so as to inherit its location at the nominal 31st East Meridian is of course simply a matter of Greenwich, England having been selected as the demarcation point for the Prime Meridian, so that was deliberate.

However, Khufu's specific positioning at the very longitude which just happens to also be named the 31st East Meridian is not an accident, in that this meridian is the very line of progression between the current North Pole (N_p) and the proposed alternative SAC-LLVP based North Pole (N_p') – anchored upon the axis of gyroscopic dynamics depicted in Exhibits F, I, and J above.

Thus in the period of eleven thousand three hundred and forty years they said that there had arisen no god in human form; nor even before that time or afterwards among the remaining kings who arise in Egypt, did they report that anything of that kind had come to pass. In this time they said that the sun had moved four times from his accustomed place of rising, and where he now sets he had thence twice had his rising, and in the place from whence he now rises he had twice had his setting;

~ Herodotus, An Account of Egypt⁵⁹

I mean the change in the rising and the setting of the sun and the other heavenly bodies, how in those times they used to set in the quarter where they now rise, and they used to rise where they now set.



~ Plato, *The Statesman (Politicus)*^{60 61}

This sets the framework for considering some long-puzzling features of the pyramid's interior and may shed light on their actual purposes.

The Curious Case of the Khufu Tripartite Observatory

and Dual 104 Degree Anomaly

Why Was this Structure so Important to Build?

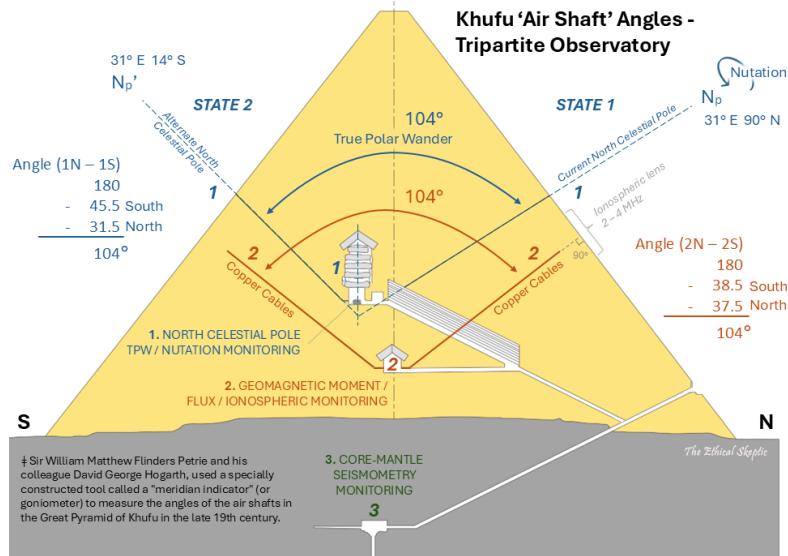


Exhibit K – Tripartite Observatory (True Polar Wander – Geomagnetic Moment – D” layer P-waves) – There is a 104-degree span between the shafts extending from both the King's and Queen's Chambers in the Khufu Pyramid. This is not accidental. Neither are these shafts purposed for air supply or spotting specific stars. It is our conjecture that the three chambers of the Khufu Pyramid were designed to house sophisticated sensors used to monitor the Earth's rotational stability. This same motif was found [marked on the top right hand side](#) of a 20 ft tall door to an anomalous octagonal structure purportedly found in Antarctica by a Navy Seal Team, Spartan 1, in 2003.⁶² We speculate (note: not critical path to the hypothesis) that this was a tripartite observatory:

This tripartite device is meant to detect an encroaching True Polar Wander from State 1 to State 2, as well as the 50 to 400-year later rotation back to State 1.



1. King's Chamber – Celestial True Polar Wander Monitoring:

The north celestial pole monitoring shafts are oriented to a specific celestial reference, running directly to the pyramid's surface and pointing accurately at both Np (State

1 Geographic North Pole) and Np' (State 2 Geographic North Pole) for Giza. These shafts are designed to monitor both the True Polar Wander, as well as the Nutation (wobble and wander) of the celestial north pole (see Exhibit K3 to the right). The reader should note that, while we discuss true polar wander in the context of this article, both TPW and Nutation can be monitored simultaneously by this aspect of the device.

Since the North Shaft from the King's Chamber makes a mid-shaft break to the west to avoid some structure (similar to the North Shaft from the Queen's Chamber), it cannot be used for direct optical observation, as is often conjectured. Instead, this would be a monitoring device requiring termination at the pyramid's surface, facing directly at the celestial north pole.

We postulate (though not critical to the hypothesis) that a

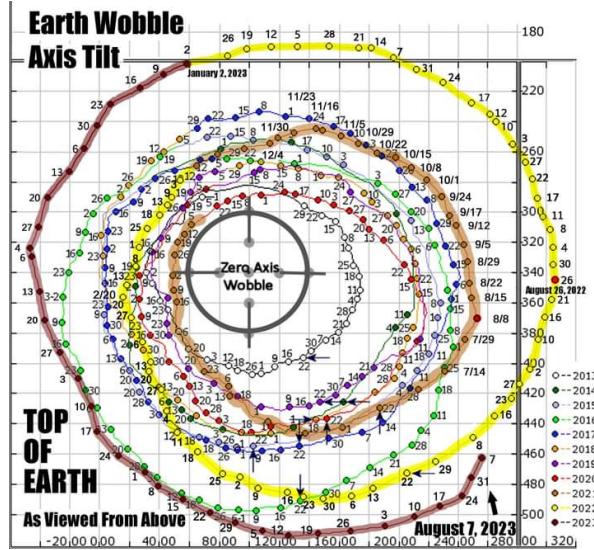


Exhibit K3 – Earth's Celestial North Pole Nutation (Wobble and Wander). As the Earth's geomagnetic moment weakens, nutation of the celestial pole dilates and global ocean temperatures rise rapidly. True Polar Wander initiates from the noise detected herein.

gravitational sled operated in the Grand Gallery, moving a mechanism in the King's Chamber involved in powering the entire structure. The linear sliding scars on the side benches indicate that a sled indeed operated in the Grand Gallery.⁶³ The gallery was not used for lifting stones for the pyramid or the King's Chamber, as it did not extend far enough to address the loft problem in any application context. In other words, getting an 80-ton stone to the Grand Gallery is a more daunting task than using the Grand Gallery to lift it a mere 21 additional meters. A monumental and complex structure (made of 5 to 16-ton stones itself) to provide a minor benefit for just a handful of stones, which is accomplished everywhere else without comment or pyramid alteration. Any compounding to multiply the sled distance moved would have required as monumental an assembly as the gallery itself. Instead, the design of the Grand Gallery was clearly one of a closed gravitational potential energy system—much like a weight-powered grandfather clock.

The granite used for the floor, walls, and ceiling of the King's Chamber, as well as for the successive ceilings of its stress-relieving chambers, is a good conductor of heat. Its use in these components of the broader chamber structure could help dissipate heat away, and rising vertically up, from the King's Chamber—if this indeed was the center of power generation and distribution for all three high-amperage sensor components. The limestone walls of the relieving chambers would not be a particularly good conductor of heat in comparison (1.3 to 2.4 W/m·K), so this construction would have acted much like a heat-chimney of sorts. Some researchers have noted that the granite beams in the King's Chamber exhibit unusual discoloration, which could suggest exposure to chronic high temperatures (per Christopher Dunn's work on "The Giza Power Plant").⁶⁴ Here again, however, our hypothesis is not critically founded upon such conjecture.



Such a power core would need to be functionally located away and off-axis from our next sensor component located in the Queen's Chamber.

2. Queen's Chamber – Geomagnetic Moment and Ionospheric Monitoring: Geomagnetic moment/flux field orientation monitoring – by means of [copper cable pairs](#) (seen in Exhibit M), that were allegedly confiscated in part by former Egyptian Antiquities Minister, Zahi Hawass.^{65 66}

These copper cables were contained inside shafts that do not run completely to the exterior of the pyramid, are capped off (neither for 'air' nor 'stars'), and are oriented to the pyramid structure itself. The limestone blocks of the pyramid served as a natural isolation mechanism, insulating the copper cables and shielding them from extraneous electromagnetic interference, while simultaneously allowing transparency to the critical Earth geomagnetic frequencies essential to the mission. The 90-degree relative angle to the pyramid's sky-facing sides (no accident – annotated as the right angle in Exhibit K) might have been designed to focus and channel electromagnetic resonances, enhancing the sensitivity and accuracy of the geomagnetic monitoring system in the Queen's Chamber. This was arguably an ionospheric-monitoring antenna. The following applies:

**Why are there Two Different Sets of Angles/End Points
in the Shafts?**

**Why Did Only the Queen's Shafts have Copper Cable
Pairs?**



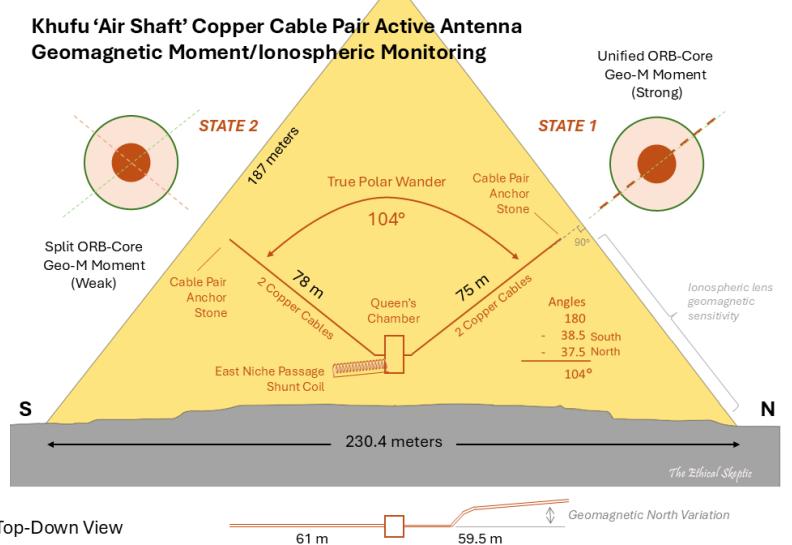
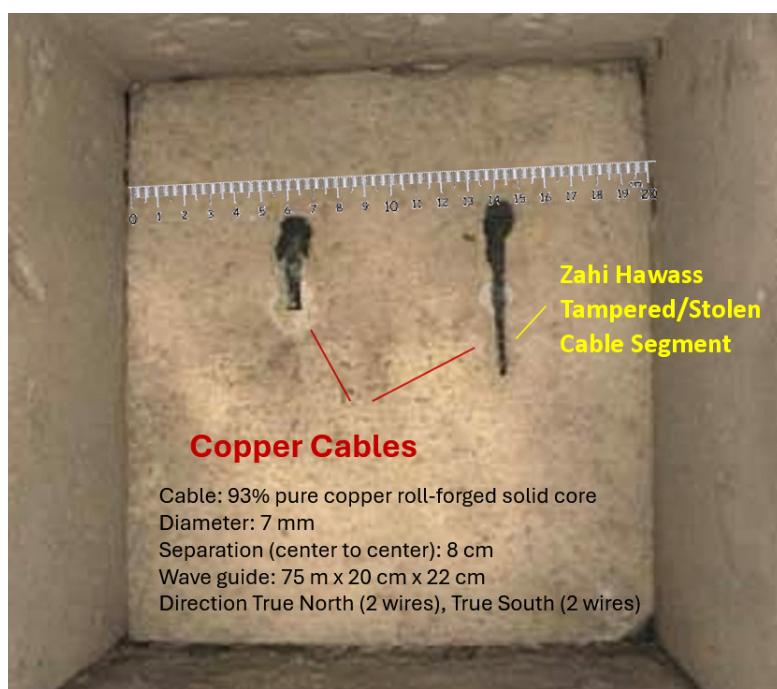


Exhibit K2 – Conclusion: “An active, high amperage, low SWR dual-dipole-antenna with sensitivity from 0.664 to 5.34 MHz would be well-suited for monitoring geomagnetic and ionospheric conditions.” The differential orientation of the Core’s geomagnetic moment, is offset by 104-degrees from the geomagnetic moment of the Mantle during State 2 (see Exhibits J2a and J2b). Hence the 104-degree spread of the antenna’s ‘V’. The north shaft was altered as the structure was built, to more align with geomagnetic north for Giza (annotated as ‘variation’ in the Top-Down View).



Remnants of the copper cables (click on photo to right) were found by the Gantenbrink Upuaut Project

the Queen's Chamber south air shaft (and later the North Shaft as well). These cables have long since been removed by both tomb robbers, as evidenced by the Dixon Relics found by Waynman Dixon at the bottom of the north shaft in 1872, and by obfuscation (alleged) on the part of Zahi Hawass. As one can see in this [linked image of the door cables](#), Hawass had the right hand cable [removed by the door pressure testing team](#) during the Djedi Project (Hawass knew *exactly* what he needed to hide/steal—this constituted theft of mankind's intellectual property). They then proceeded without comment regarding the sudden change, and no trace of the copper cable remnant was ever admitted by the research team—while no outcry from the archaeological community was ever raised. This is a prime example of why I have little respect for archaeology.

Below, the reader will lay witness to the reasons behind why Hawass (allegedly) knew these copper cables had to be confiscated and their documentation prevented—these copper cables will never show up again. In 2014, the former Egyptian Minister of Antiquities, archaeologist Zahi Hawass was charged with stealing Egyptian antiquities.⁶⁷ In the list of items allegedly stolen by Hawass, the most unusual artifact was the ancient “copper wires from the Pyramid of Cheops (Khufu).” ~ YouTube: “New Discovery Inside the Great Pyramid! What Did Scientists Find?”; 20 Apr 2023;⁶⁸

In 2014, the former Egyptian Minister of Antiquities, archaeologist Zahi Hawass was charged with stealing Egyptian antiquities. In the [manifest] of items [allegedly] stolen by [Hawass], the most unusual artifact was the ancient copper wires from the Pyramid of Cheops. ~ Riddle, VineMontana TV

The video containing record of this allegation of copper cable theft can be seen by [clicking here](#). After Egyptian authorities and Hawass cut a deal regarding his improprieties, the internet was scrubbed of any manifest of



such items. The manifest of items allegedly stolen and relevant court records are sealed. Thus, I had to obtain the video linked above from the Wayback Machine.

Despite this, one of the copper cable segments was still [found 5 meters down the shaft](#), laying on the floor, having been pulled free from the end stone by applied force long ago.⁶⁹

In Exhibit K2b below, a longitudinal cross section drawing is depicted as to how we surmised the cables were affixed into the shaft end stone. This anchoring method prevented the cables from either pushing through or pulling out from the stone during expansion (heating with active current) and contraction (when inactive) respectively.

In addition, based upon copper decay rates using classic oxidation, carbonation, and acid erosion conventions, in a 20% humidity, 1000 ppm carbon dioxide enclosed limestone chamber – the hanging copper cable segment depicted in the image to the upper right, would have taken [8,300 to 12,500 years](#) to decay to the 50th percentile taper it exhibits in the image. This matches the 9,600 BCE dating of the star chart chiseled into the Queen's Chamber south air shaft 'penultimate stone' ceiling that is analyzed later in this article. Therefore, there is no possible way this copper dates from the Fourth Dynasty of Egypt. A proper corrosion product analysis and chronological profiling study should have been conducted on this copper immediately upon its supposed 'sampling'—and yet, no such study will ever will be conducted.

As one can observe in the photo above and in Exhibit K2b, there are two copper components that extend out of the stone face: first is a dovetail mold of copper cut into the stone itself to keep the end of the wire anchored and prevent it from being pulled too taut out the back of the stone, and second, the cable itself, now  hanging over the

dovetail mold of the right cable. The same dangling cables and dovetailed anchors can be observed on the [North Shaft](#) stone as well. One can observe where the dovetail-molded

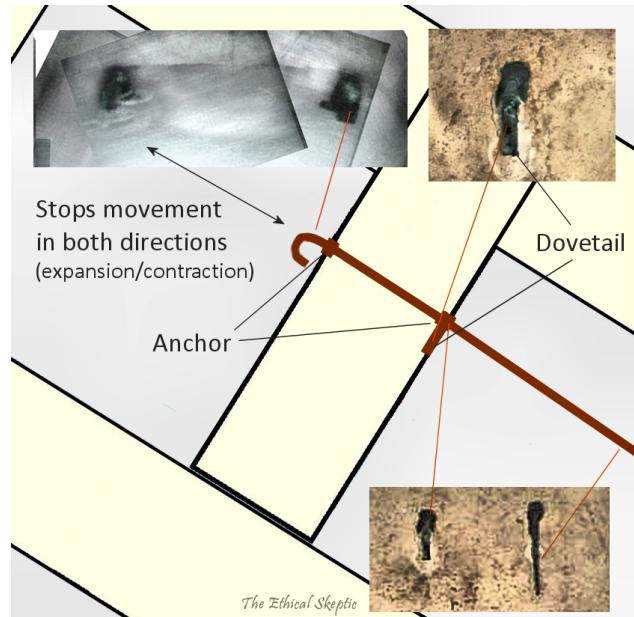


Exhibit K2b – Longitudinal cross section of shaft end door and expansion/contraction anchoring, dovetailing, and stopping.

copper fitting has fallen out and the copper cable hangs in its place in this [closeup of the North Shaft left cable](#). In this anchoring design the copper cables can neither be pulled out of the stone, nor can they be pulled too taught through the stone itself. The cables are anchored through the stone in both directions—an engineering solution befitting a precision-engineered critical component and not a decorative or one-time functional feature in the least.

If these fittings were merely intended to bear stone load, they would have been made of cheaper and stronger bronze, not soft copper. Additionally, they were not designed to prevent the stone from being removed, as a stone-cut bevel across the entire face of the stone would have been much more effective and easier to craft. As one can see with the cable on the right, the run of copper extended far beyond the anchoring dovetail on the face of the stone. Therefore, the copper cable did not end as a dovetail on this stone face. This cable end-piece remained in place until the Djedi Project drilled through the door and caused it to dislodge in 2011.

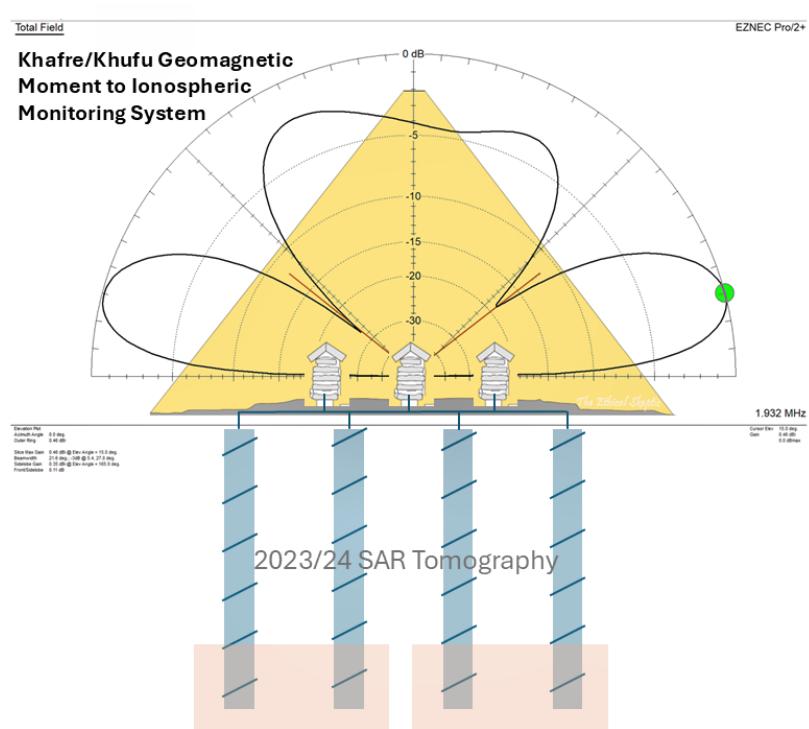
The deductive key to understanding the shaft-door copper fittings lies here: a dovetail cut-mold is unnecessary for a one-time-use function, such as lowering handles or mere decoration. These cuts are used to affix or anchor a component that is intended to endure repeated or long-term dynamic stress. They secure a metal component expected to expand and contract under varying heat and/or amperage conditions. This stone and copper contraption was not incidental—it was engineered with a specific function in mind.

We note that newer, patina-free, and finely-hewn limestone blocks were used for the final 10 meters of the north shaft's ceiling. Prior to this section, the shaft is composed of older stones with a dark patina, which has been scratched by several previous [metal rod investigation attempts](#). Similar to the Queen's south air shaft, this shaft appears to have been constructed in stages, separated by a significant amount of time.⁷⁰ There remains inference to be drawn from this deductive evidence, if archaeology would pause from its confirmation bias of the 'burial chamber' narrative and focus on thoroughly investigating these findings. Simply taking photographs and exclaiming, "Well isn't that a mystery..." is not science.

Radio Frequency Performance Analysis Results

A military intelligence colleague, communications specialist, and lifelong friend recently reminded me that, in military and maritime communications it is common to employ 'V' configuration omni-directional antennas. So we contacted a military antenna engineering specialist and had an analysis run. The results were as follows:

The copper cables in the pyramid ran out in independent pairs (possibly for differential and polarized signal detection modes as well) and terminated independently behind 



Superior geomagnetic monitoring sensitivity lobes form at 1.932 MHz and its harmonics (EZNEC Pro 2+)—both axial ground and air from the two double-cable, high amperage antennas connecting back to the Queen's or other Chambers.⁷¹

stone. Thus:

- South Shaft 78 meters x 2
- North Shaft 75 meters x 2

Resonant wavelength = 150 (75 x 2) meters @ $\lambda/2$
Dipole = primary at 1.932 MHz, a 1.27 standing wave ratio, and a ground wave main lobe at 15° above horizon (report output shown in the above right image inset). Secondary resonances exist at 5.34 / 4.29 / 3.11 / 0.644 MHz (MF/HF).

Limestone is not an effective blocker of electromagnetic (EM) signals, particularly in the frequency range of 0.1 to 30 MHz. Instead, it tends to be relatively transparent to these signals, allowing them to pass through with minimal attenuation. Nor is limestone a conductor of electricity. It would provide for an excellent insulating jacket for high-amperage electrical cables. Two 7 mm solid core copper lines run 8 cm apart would



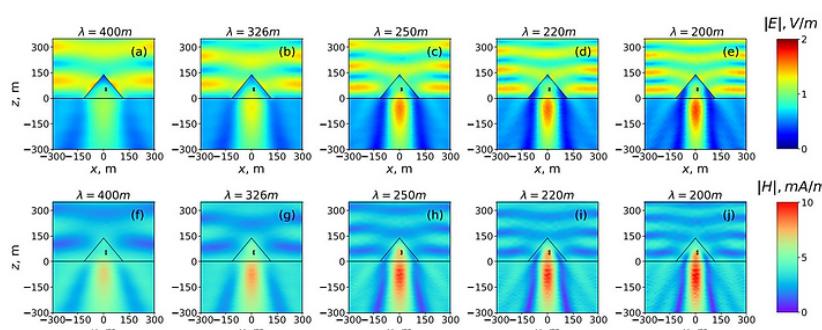
single active antenna with a high amperage, low voltage, and low SWR (a configuration designed to pick up subtle signals).^{72 73}

Conclusion: An active, high amperage, low SWR antenna with sensitivity from 0.664 to 5.34 MHz would be well-suited for monitoring geomagnetic and ionospheric conditions. The high EM-amperage field would activate the piezoelectric characteristics of the Tura limestone face of the pyramid to act as an active reception amplifier.

Applicable frequency ranges:

- Earth's Geomagnetic Moment (ELF) = 3 to 30Hz
- Atmosphere/Ionosphere (VLF) = .3 to 3 MHz
- Schumann Resonance = 7.83 Hz
- Geomagnetic Pulsations = 1 Hz to 1 MHz

Thus, argument can be made that these wires were part of a system designed to monitor Earth's Geomagnetic Moment (ELF) and its dynamics via their impact upon the ionosphere.⁷⁴

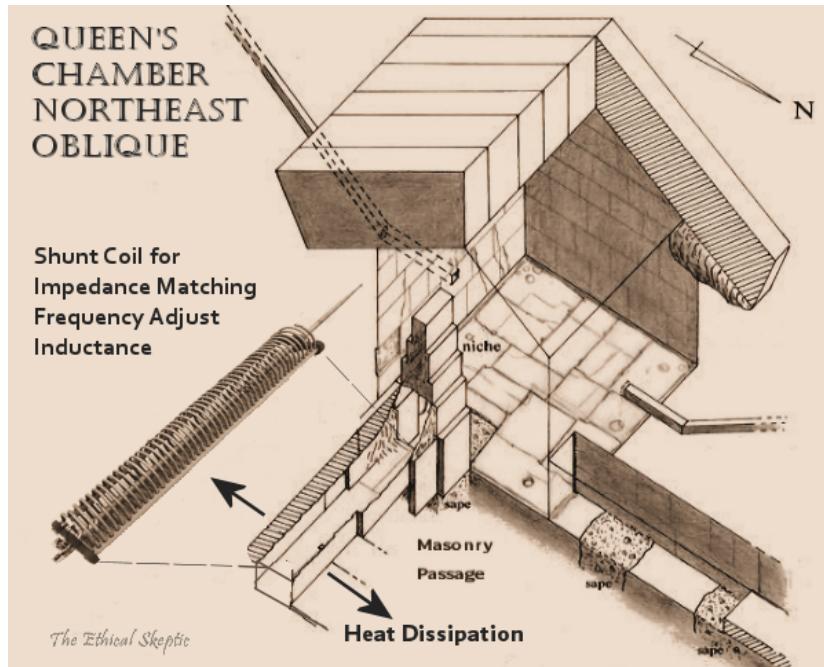


Propogation of electromagnetic waves inside the Great Pyramid of Khufu at differing radiofrequency wavelengths (from 200 to 600 meters). Source: Information Technologies, Mechanics and Optics University, Laser Zentrum Hannover.

The hypothesis that the Great Pyramid of Giza may function as an electromagnetic transducer or antenna is supported by the study conducted by Mikhail Balezin et al., published in the Journal of Applied Physics in 2018. This research demonstrates that the Pyramid resonates with radio



frequency waves, specifically within the 200–600 meter wavelength range [.5 to 1.5 MHz], activating its dipole and quadrupole moments. As a result, the Pyramid acts as a natural antenna capable of concentrating [or receiving] electromagnetic energy, potentially influencing[/monitoring] the Earth's ionosphere or other environmental electromagnetic fields (courtesy of @pshs04 on X).⁷⁵



This functionality was feasible particularly if the system's active power was controlled and frequency-tuned by a horizontal and perpendicular-to-field shunt coil, cooled (high amperage) by its extension into the eastward horizontal passage of the chamber's eastward-facing niche, whereby the limestone block heat transfer efficiency would keep the overall temperature of the Queen's Chamber at a reasonable level. For predictive confirmation, we therefore examined the condition of the limestone just outside and above the south passage, and indeed this is what we find.

The burnt limestone above and exiting the Queen's Chamber niche, continuing to the ceiling of the Queen's Chamber itself, also aggregated near the niche and dissipating across the ceiling ridge moving westward.



confirms the presence of high heat in antiquity. The surface of heated limestone can undergo thermal decomposition and partial melting, resulting in a dark brown colored vitrification with a glossy appearance (see Exhibit K2c below).⁷⁶ This heat was not from fire, because the vitrified patina contains no bound combustion ash or chemical reaction residues. This dark brown 'leoparding' (my term) is due to the release of carbon dioxide (CO_2) and the presence of impurities in the limestone that can change color upon exposure to high heat.

As well, the 'melting streaks' inside the stone directly [over the mouth of the niche passage](#) come from the higher heat decay of softer limestone into 'quick lime.'⁷⁷

The users of this power did not fully grasp the utility of voltage (Ohm's Law: $V = IR$), and therefore had no need for transferring this power over long distances (which would have required high voltage). Consequently, the power was high amperage, high resistance, and was used for a nearby demand. Those who generate power for distant applications seek to minimize resistance and heat at all costs. In this application, the users were not concerned about power transmission over a distance. This power was utilized directly within the pyramid itself.

*Yes the Pyramid was a power plant, but this high-amperage/
high-heat/low-voltage
power could only be used inside the structure itself.*





Exhibit K2c – High, non-combustion generated, heat –

Notice that the highest temperature (quick lime) decay is located right at the exit of the horizontal passage, transitioning to lower temperature vitrification of limestone impurities (leoparding) as the heat dissipates while rising to the top of the niche. This indicates an extraordinary level of heat exposure, which was not caused by chemical reaction or combustion.

3. Subterranean Chamber – D” layer P-Wave Infrasound

Monitoring: Deep-earth seismometry/core-mantle D” layer/LLVP dynamics monitoring fluid-based sensor. In similar effect to the geomagnetic monitoring, the pyramid’s structure could have been optimized to both isolate and focus seismic signals towards the Subterranean Chamber, allowing it to effectively monitor seismic activity and internal Earth dynamics free of noise from surface, device, or other nearby activity. The chamber itself would use water to detect the infrasound frequencies involved.⁷⁸

Moreover, there is an independent determination that the rock-cut **dead-end south passage** inside the chamber might well have functioned as a sound resonance tube, generating or receiving infrasound with a base frequency in the range of 5 and 10 Hz – and that constant low frequency noise can be heard/sensed in the chamber.^{79 80} This corresponds well to the design of the pyramid itself –



optimized to 5 Hz, per Exhibit K3 below.

Understanding the Necessity of The Great Pyramid's Scale

Why Did They Bury a Water-Eroded Chamber so Far Below It?

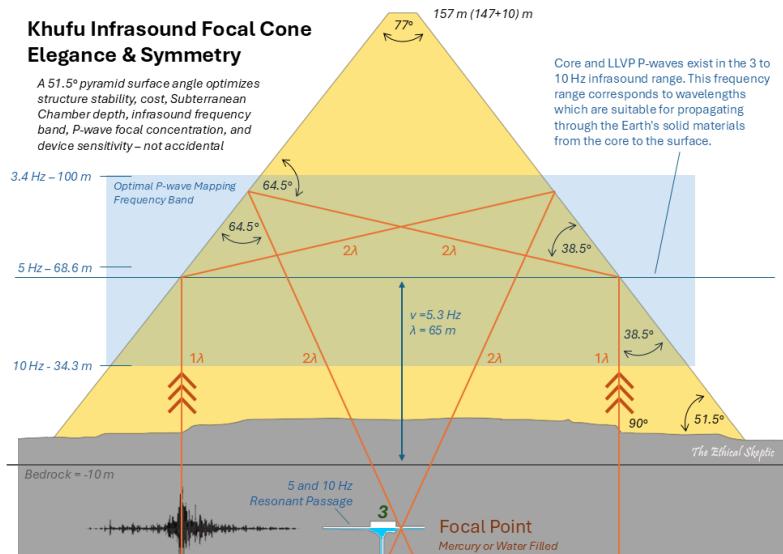


Exhibit K3 – Infrasound featuring wavelengths in the range of 30 to 70 meters (Earth P-waves), suitable for propagation from the D" layer up to the Earth's surface^{81 82 83} would reflect inside the pyramid in much the same fashion as occurs in a microphone's parabolic reflector. The focal point for such infrasound coincides with the location of the Subterranean Chamber. The 5 to 10 Hz range is quite reasonable for detecting infrasound signals emanating from deep within the Earth, including potential core noise.

This also describes why the scale of the Great Pyramid was critical to its function. If the pyramid's slope angle were reduced, the fluid-filled⁸⁴ chamber would need to be placed deeper into the Earth. Conversely, if the slope were too steep, the structure would risk collapse and costs would increase non-linearly. If the structure had smaller dimensions, it would not have effectively concentrated the wavelengths involved. Therefore, the design aimed to optimize the balance between the side slope, depth of the Subterranean Chamber, and overall instrument effectiveness. With the exception of all other

pyramids were cargo cult imitations, displaying a lack of awareness of Khufu's critical feature functionalities.

It is possible that the Subterranean Chamber was once filled with mercury, which has been found in trace amounts across the Giza Plateau and the Khufu Pyramid itself, as well as extensively beneath the Teotihuacan pyramids in Mexico and in the tomb of China's first emperor, Qin Shi Huang.⁸⁵ Mercury would have offered several advantages as a sensing medium:

- Effective encapsulation through amalgamation with limestone, preventing leaching.
- Extreme sensitivity to core D" layer P-wave signals reflected by the pyramid's architecture.
- The ability to carry a sustained direct current, modulated by subtle P-wave vibrations.
- Direct delivery of the modulated DC current into a monitoring system, without the need for additional detection devices like hydrophones, geophones, or vibrometers.

Naturally, mercury would not be employed trivially in any context, and we speculate that no specific feature of the Khufu Pyramid was without purpose. As explored in the following section, just as the offset of the King's Chamber may serve as an authentication technique, so too does the offset of the Subterranean Chamber appear to have a distinct purpose (Exhibit K4 below).



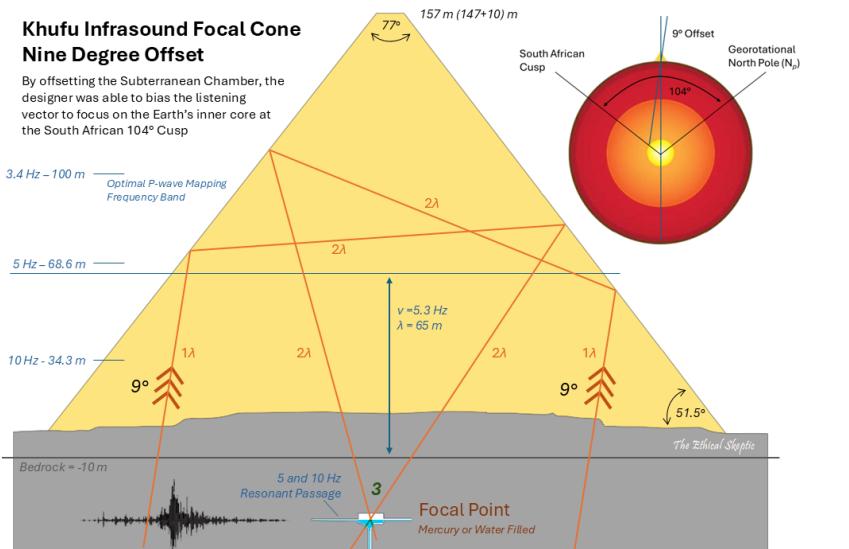


Exhibit K4 – The Subterranean Chamber 9° South Offset – to align its listening vector with the Earth's inner core surface, specifically beneath the South African 104° cusp identified earlier in this article. The 8- and 9-degree offsets of both the King's and Subterranean Chambers were no accident; they served a deliberate technological purpose.

In summary, the combined observation of the celestial pole's short term nutation dynamics, the strength, asymmetry, and orientation of the Earth's magnetic moment, and D" layer/LLVP seismic noise amplified by the pyramid, monitored from the Subterranean Chamber, could have formed a dynamic integrated system. The pyramid's shape itself acted as a kind of receiving cone, pointing down into the Earth, enhancing those monitoring capabilities. This system would allow for more accurate inferences if all three components showed simultaneous anomalous signals, indicating onset of a significant geophysical event.

This integrated system is mounted upon the **original bedrock shelf** which underlies only the 'observatory' footprint of the pyramid, and not the entire edifice. Together, these chambers composed an advanced monitoring system that may have allowed an unknown party, possibly the mythical Anunnaki themselves, to predict significant geological and rotational events, such as the coming deluge. An event they all took an 

mankind.⁸⁶

Seismic waves suggest the planet's solid inner core is being pulled out of shape – and it has undergone these changes over just a few decades. These changes would most likely be caused by convection in the outer core pulling magnetically at the less viscous edge of the solid inner core, or by interactions between the inner core and structures in the lower mantle...

~ New Scientist, 17 Feb 2025⁸⁷

To those who resent that our suggestion of such a core dynamics technology also might imply the presence of ancient aliens, I would say this: I don't care. In our second article we make it clear that the evidence supports the contention that humans built the pyramids. In contrast, what we have venerated as science to date regarding the purpose of Khufu constitutes a ridiculous children's fairy tale. Most of humanity is weary of being insulted and gaslighted over this edifice. If this hypothesis makes you uncomfortable or challenges your superior beliefs, put on your big boy pants and start dealing with this evidence set like a mature human being, and not as a pampered arbiter of truth.

The Secret of the Shafts

However, it is clear to us that the two sets of shafts serve a dual purpose, not just one. In the image shown in Exhibit K above, regarding the 'air/star shafts' which run outward and up at specific angles from each of the King and Queen's Chambers, one pair of these shafts points directly north, while the other points directly south. Such precision in alignment suggests a purpose beyond mere ventilation, as the substantial cost and engineering effort involved in these particular designs would be unjustifiable for simple air shafts – more easily run (and more importantly, removed so as to



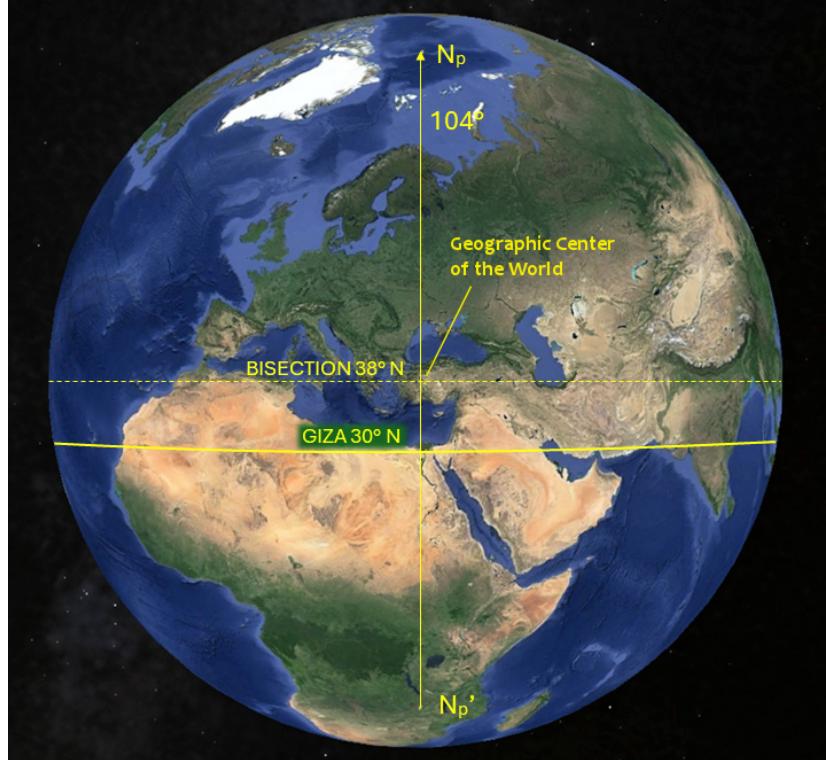


Exhibit H2 – Both the Geographic Center of the World at the 38th North parallel, as well as the Giza Complex at the 30th North parallel are depicted in relation to each other and the Np to Np' meridian of Dzhanibekov rotation.

deter robbers) in a vertical orientation. (Please note that within this article, 7N and 7S for example are referred to as a ‘set’ of shafts, whereas, 7N and 10N are referred to as a ‘pair’)

Additionally, the low placement of these shaft openings within each chamber would be ineffective for promoting airflow as warmer air rises. This considerable investment in engineering and labor seems too deliberate to constitute or tolerate an inept airflow design. Furthermore, the significance of these ‘star shafts’ may not lie solely in which stars they align with, but rather in the angle they form as a set—104 degrees—supplementing the angles of each chamber’s horizon to 180 degrees.

More importantly, the two angles defined by these sets of shafts (King and Queen's shaft sets), match



an alignment to the Dzhanibekov rotation as viewed from the two critical locations defined in Exhibit H2: The Giza Plateau and the Geographic Center of the World (see where [The Eratosthenes Experiment](#) applies a similar heuristic). These two intervening differential angles, rather than the direct measurements or match to specific stars, carries the critical message of this monument.

The Secret of the Shafts

Each pair of shafts is affixed upon the same astronomical reference,

the celestial north pole in two different Earth rotational orientations (N_p and N_p')

and from two different geographic locations (Giza and Geographic Center of the World).

The eight degrees of geographic latitude separation is employed as part of the key to authenticate the message.

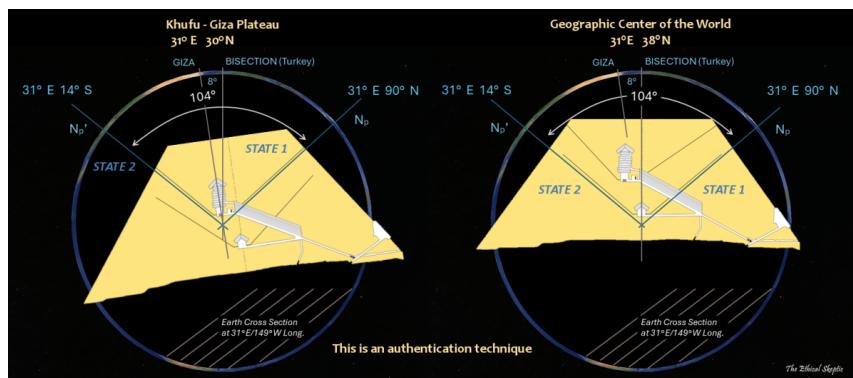


Exhibit L – Khufu Shafts Aligned to Mediated Dzhanibekov Rotation Angle – from both the Turkey bisection latitude as well as Giza. Conceptually, here the builders of the pyramid have employed the King and Queen's Chamber shafts to both demarcate and authenticate the shift from normal polar alignment at N_p (State 1) to the novel polar alignment at N_p' (State 2). It is no accident that the alignment on the right, both bisects the Dzhanibekov rotation and happens to sit right on the Geographic Center of the World, 31.4° East Longitude and 38.4° North Latitude.

What the duplication in shafts and chest chambers

serve to communicate, is an authentication of the change in celestial north pole location, during two different time periods. An intelligence which cannot be communicated by a single set of shafts, nor certainly by shaft combinations which do not agree.

The builders of the underlying observatory inside the Khufu pyramid depicted this principle from two differing geographic locations (Giza, left and Turkey, right), indicating a very sophisticated knowledge of the Earth's diameter. What the duplication in shafts and offset chambers serve to communicate, is an authentication of the change in celestial north pole location, during two different time periods. An intelligence which cannot be communicated by a single set of shafts. Moreover, this coded message is something that cannot be defaced or dismantled by holy armies or their jealous God, cannot be rendered silent by righteous knowledge, nor consumed by fire or buried, nor eroded away by the elements.



I did not erect this structure as a monument to my own grandeur, nor to glorify my realm, nor even as a resting place for my remains. How could such immense vanity neglect to inscribe its name even once within its own colossal tribute? No, we are your forebears. Know, oh man, you who have unlocked these innermost secrets, that you now journey beyond this realization into an era akin to the days of Utnapishtim.

You may ask why we did not communicate an issue this monumental in the form of a picture—this monument is that picture. We entombed this observatory beneath millions of stones, at the cost of vast fortunes and countless lives, so that this legacy may never again be washed away, erased, or stolen. For we understood the sloth, avarice, and cunning of your captors, those who pretend to the throne of gods. This monument was not crafted for our sakes



—oh dear children of ignorance, blinded by your gadgets and sophistry—it was crafted for yours.



Remember, regarding the lack of markings inside the pyramid to suggest a specific purpose, two issues arise. First, every hypothesis faces this challenge, not just this one, as there are no markings to confirm any proposed use of the edifice. Second, whatever was originally stored and obviously protected inside these chambers was likely removed by later interlopers. These interlopers did indeed erase any and all accessible markings (*Relation de l'Égypte* (the French translation) by Abd al-Latif al-Baghdadi, Chapter IV, circa 1196 CE), even going so far as to forge red ochre ones as we noted in our previous article, [Hidden in Plain Sight](#). Therefore, the absence of markings is both an appeal to ignorance and ultimately moot.

Of course, it would have been helpful had the builder at least marked one of these inaccessible shafts to clearly indicate its polar direction at the time of its construction, or even better, use. Surely, someone of this sophistication would have anticipated the need for such an informative relic. One set into a location where it cannot be erased by The God™ or debunked by The Science™. Be patient, dear reader, as it may very well be that such a clue exists.

If Stones Could Speak

In one of the star/air shafts extending upward from the Queen's Chamber, there resides a curious set of non-hieroglyphic markings which were photographed by the Upuaut Project.⁸⁸ On the ceiling, just at the final stone before the block that terminates this shaft, a depiction of the night sky is carved. This artistic representation includes the constellations Ursa Minor and Ursa Major, Draco, Lacerta, Bootes, Cepheus, and Cassiopeia, un

this specific section of the sky and its orientation.

The stone depiction itself is centered on true north, with the celestial north pole anchored at the very bottom center of the stone framing – almost as if this specific stone was employed to select a time and set of stars to ‘shoot’ (navigator’s term for obtaining a line of position from a given star)

each night, in order to align the next day’s workload to true north (when no alignment guide would be available). Exhibit N below outlines this functional practice. This I found to constitute a rather clever artifice on the part of the construction foreman.

What remains in question is the timeframe represented by this depiction of the northern sky. Notably, the rendering centers on a celestial north pole that is significantly offset—not only from the current North Star, Polaris, which is expected due to the precession of the equinoxes, but also

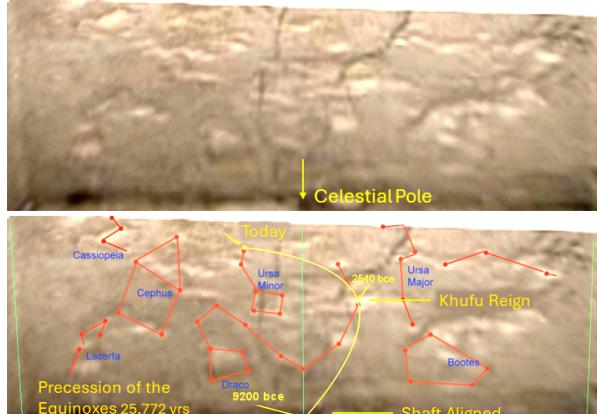
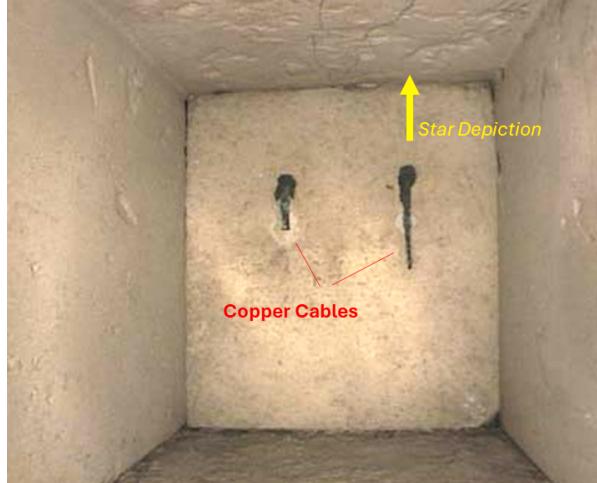


Exhibit M – End of Queen's Chamber Star

Shaft – A star chart is carved into the last stone serving as the ceiling of the shaft. By Precession of the Equinoxes, that chart depicts a Giza skyline from 9200 to 9600 BCE. Plus, the depiction is of a north sky, used to align a southward pointing shaft.



surprisingly far from the celestial north pole as it would have been positioned around the time of Khufu (circa 2540 BCE) – inside the end of Draco's tail (as depicted in the bottom panel of Exhibit M).

This depiction suggests a construction timeframe for the star shaft of around 9200 to 9600 BCE, as evidenced by comparing Exhibits M and N. Many of the stars represented in this carving would have been below the horizon in 2540 BCE and thus invisible in this depiction, to observers of that era. A Starry Night™ rendering of the northern sky at Giza as it appeared in 9200 BCE, which precisely matches the arrangement carved into the stone shown in Exhibit M, is shown below, along with the sextant-like alignment technique entailed.



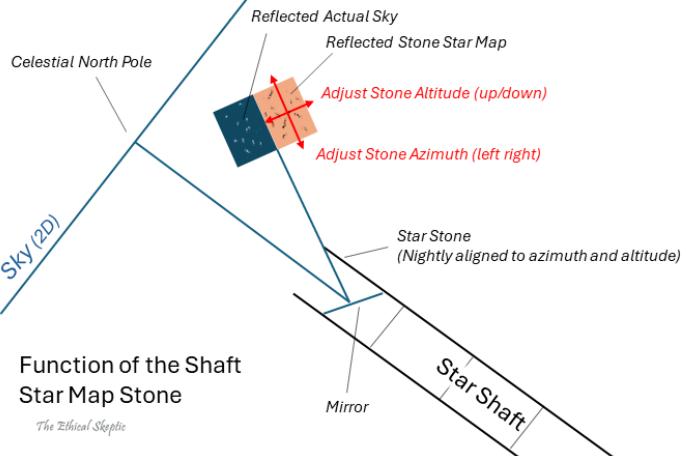
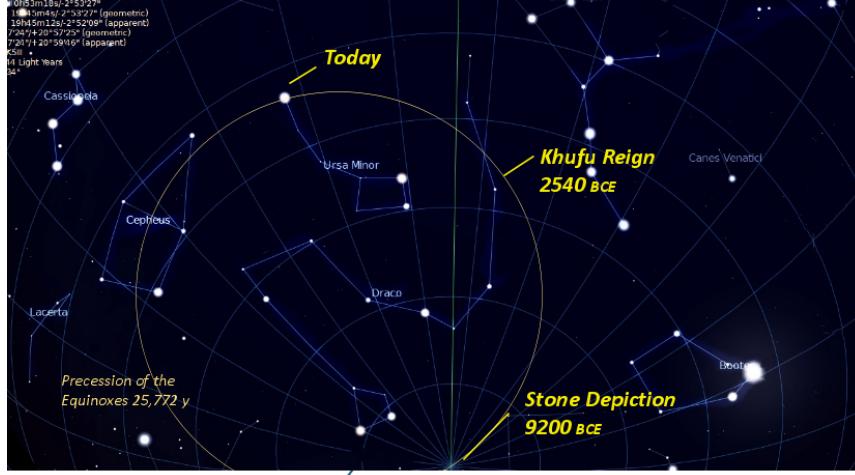


Exhibit N – Star Time Frame and Engineering Analogous to a Sextant – In practice, the foreman would take the shaft ceiling stone upon which the star map was marked, align the bottom center of the stone with the celestial north pole in the sky, and then ensure that the center of the stone matched exactly the azimuth and altitude of the celestial pole itself – in this manner, aligning the next day's work (as well as the shaft) to true north.

The stone had to bisect the north sky horizontally so that the altitude of the celestial north pole could also be shot, along with its azimuth. If the foreman used an 8 inch mirror fit into the shaft itself, this would in essence be analogous to a sextant. Through employing this method, along with knowledge of the precession of the equinoxes (celestial position of the north pole over a 25,772 year cycle), the date range for construction of the shaft becomes abundantly clear.

The fact that all four of these shafts initially run at odd angles to the celestial north pole, thereafter reattaining the altitude and azimuth discipline in each case, indicates just how important this alignment was to the function of these



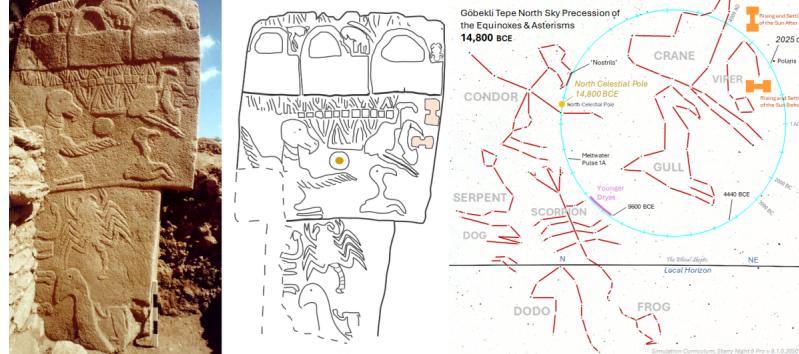


Exhibit N2 – The Vulture Stone (Pillar 43) at Göbekli Tepe indicates a construction date of 14,800 BCE.

shafts. They were not air shafts (despite our employment of that name at times herein). The copper fittings in the sealing stone were not for dropping the stone into place, as every stone in the pyramid had to be dropped into place, yet none of them used such labor intensive through-stone-fittings. Nor are the fittings placed at the right center of gravity to afford such a function. These were copper cables, for which we previously had no theory regarding their purpose—that is until now.

The 9200 – 9600 BCE date range suggested by this shaft has been conjectured by some to match the dating carved into [Pillar 43 at Göbekli Tepe](#), or what is known as the ‘Vulture Stone’.⁸⁹ In Exhibit N2 above one may observe where I have marked the Precession of the Equinoxes great circle onto the stellar depiction chiseled into Pillar 43. One should note that the circle, serving as the centerpiece of Pillar 43, depicts the celestial north pole and its location along the Precession of the Equinoxes around a date of 14,800 BCE. The Pillar 43 circle cannot possibly be the sun as many have suggested, as the sun moves along the ecliptic (to the [lower left of the visible region in Exhibit N2](#)) and comes nowhere near Cygnus. The position of the celestial north pole above Cygnus’ left wing (yellow circle in Exhibit N2) equates to 14,800 BCE. This pillar and its iconography was either copied or re-employed at the 9600 BCE habitation at Göbekli Tepe, which interestingly coincides



with Meltwater Pulse 1B. Because of monument alignment differences, as well as the comparative size of human cultures at those times, it is likely that the Khufu Pyramid therefore was constructed shortly after that calamitous event (given Khufu's stark warning and design)—thereby matching the penultimate stone dating in Exhibit M above.

Perhaps it was findings like this, ones which inculpate Archonic powers in their Enochian unforgivable sins (genetic hybridizing, enslavement, sexual abuse, lifespan altering, human rights violations, ignorance, neglect, posing as God, and existential/spiritual torture), behind why excavation at Gobekli Tepe has been shut down by the Doğuş Group at the behest of its 20-year funding sponsor, the World Economic Forum.^{90 91}

About 11,500 years ago – in 9,550 B.C., as dated by astronomers from Potsdam Observatory from writings in the ruins of Tiahuanaco – the 60-mile thick shell of the earth shifted its position once more in $\frac{1}{4}$ to $\frac{1}{2}$ a day, 7,000 years after the previous shift. The North Pole moved southward, and the Sudan Basin in Africa shifted to the North Pole. This was the time which the Talmud states was the setting of the Pleiades below the horizon, when the Holy Land was moved into a “region of terrible cold” for many generations – actually for 5,000 years until Noah’s flood, 6,500 years ago. The equatorial pivot points were off the coast of mid-Chile and in mid-China, near the Yangtze, North of Viet Nam.

~ Chan Thomas, *The Adam and Eve Story*⁹²

A true polar wandering (TPW) event evidently changed the location of the pole around 11k-9k before present.

~ Utah Geology⁹³

As mentioned in our last article, the momentary oceanic



surges of this inundation rose to as high as 2200 feet above sea level for a very short period of time. I find it intriguing that our oldest large-scale human habitations, Göbekli Tepe and its contemporary site [Karahan Tepe](#), are both situated on hilltops at approximately 2500 feet in elevation (see top panel in Exhibit N2). Why did these [consistently self-depicted as emaciated](#) ancient humans (with their animals) choose these elevated locations for their homes when their food sources were located in the Harran Plain (Paddan Aram) well below them?⁹⁴

Notice in Exhibit N2 that the aurora borealis is carved into the stone above the depiction of celestial north (the circle on the condor's wing), indicating that the cataclysm which the stone's authors were attempting to document, was related to a far-reaching geomagnetic phenomenon.

Perhaps Göbekli Tepe and Karahan Tepe were not homes or temples (the go-to dismissal tactic) at all then; instead, they were planned refuges from a known cataclysmic phenomenon. An event the builders tried to speak to us about through stone and their use of stellar reliefs. Important information we do not want known today.

This form of evidence is indeed inductive of course, nor do I believe that the builders constructed two of the Great Pyramid shafts while underwater during the counter-alignment. Complicatedness arises when we attempt to force simplicity upon a complex reality. This hypothesis in contrast is the first one to bear robust elegance. It was the last idea I considered—the only one I could not falsify, yet it explains so many mysteries woven into mankind's monument history.

Dismissing all such observations as mere cultural and religious symbolism which bears no relevance to our modern enlightened state—when 

depictions are salient to specific embargoed constructs—merely serves to perpetuate the linear induction or Nelsonian Ignorance Trap approach to science that we criticized at the outset of this article. Science is stuck in that trap regarding the Khafre and Khufu pyramids (and all ancient monuments in reality), in desperate need of disruption and paradigm shift. There is a great deal yet to be resolved with regard to this aspect of mankind's history. Here, we are introducing a hypothesis, not another 'perfect answer' for a new doctrinal set of beliefs. If *a priori* perfect answers were the standard, the current consensus would have never survived to be considered in the first place. However, because of the critical and heteroreductive nature of these observations, any hypothesis which leaves the issues cited in this series of articles unaddressed, meets the definition of pseudoscience.

Nonetheless, setting aside the debate over the possible date range for the stone star depiction, one fact remains unmistakably clear:

The shaft that was aligned by means of this celestial north star map today points toward Giza's southern sky.

An Epilogue in Epic: The 175 Global Flood Myths

I encourage the reader to contrast the below material with the biblical recount of Noah. In the Noah tale, one may observe a story heavily rewritten so that the targeted population could **understand, as opposed to comprehend**, the evolution of events.

There's also a purpose behind the Torah's exaggerated version of this event: to push people into camps of gullibility or outright rejection—deliberately omitting and obfuscating the reality that lies in between.



The biblical flood narrative (note: when we use the colloquial translation term ‘flood’ in this article, the context is oceanic inundation) reduces that set of events into familiar tropes: it was ‘man’s fault’ (sound familiar?), it ‘rained’ (for a familiar esoteric number of days), then there were these magic ‘fountains’, and all that massive excess oceana (over triple the volume of all oceans which exist today) just disappeared in a couple months – poof! Finally, a fully mature olive tree mysteriously reappeared in 47 days⁹⁵ – when it takes an olive pit 6 months to germinate and produce its first leaf even under optimal conditions.⁹⁶ Give me strength...(ChatGPT-4o [comments accordingly](#))

This illustrates the problem with ‘explain it like I’m 5’: a technique that often leads to critical inaccuracies. As a result, the biblical version is unreliable as compared to more ancient accounts (such as below) that offer a more nuanced and physically plausible depiction of events. Generations of mankind miss an important geophysical principle because someone wanted to make the story ‘easy to understand’. This is what happens when you dumb things down – everyone gets dumb as a result.

Curiously, in the Epic of Gilgamesh's Tablets IX, X, and XI, King of Uruk, Gilgamesh, set out upon a quest to find his ancestor



Exhibit O – Seal of The King of Mohenjo Daro.

Utnapishtim. Utnapishtim had been granted immortality by the Gods after he had followed one God’s (Ea/Enki) direction to build a large boat. He then loaded the vessel with his kith, kin, and domesticated animals, and successfully survived an epic inundation. Gilgamesh, being



two thirds God himself, desired to understand the mystery of immortality (my commentary: why someone would wish to live forever in this realm is beyond me).

Accordingly, Gilgamesh crossed the Mountains of Mashu, and marched for days eastward. The Great Flood Story Segment E in the Electronic Text Corpus of Sumerian Literature (ETCSL) confirms that Utnapishtim's residence was in the "Land of Dilmun, where the sun rises."⁹⁷ Thereafter, his team portaged and powered by poles up a river for three days (hundreds of miles, or a month and a half's normal journey according to the text), whereupon they attained their objective.⁹⁸ This journey could only equate to the mouth of the Indus River and upriver passage to one of the oldest cities in the world, **Mahenjo Daro** (3 days at 4 knots = 327 miles, Mahenjo Daro is 325 miles upriver). There, Gilgamesh encountered Utnapishtim, who was running a river trading and fishing business.

Utnapishtim recounted to Gilgamesh how his world was lost in a mere day's sudden turning, not "40 days and 40 nights" of rain – a catastrophe not wrought by sustained storms, celestial impacts, or solar coronal mass ejection, but rather by a displaced sea, kinetically mixed with displacing atmospheric winds, swiftly surmounting the mountains in one sudden, overwhelming inundation. This combination of water borne upon high winds (not the same as rain), the shattering of the land, and sudden encroaching of the ocean (Segment E of the ETCSL regarded that the inundation would "sweep over the land") – constitute georotation phenomena – and nothing else.

Utnapishtim thus related to Gilgamesh:⁹⁹

*I will reveal to you, Gilgamesh, a thing that is hidden,
a secret of the gods I will tell you!*

*Ea, the Clever Son of Anu, was [bound by] an oath
with [the Anunnaki] so he repeated their knowledge*





of the coming deluge] to [my] reed house [wall instead]:

'Reed house, reed house! Wall, wall! [Were you to speak

with him, say to] the man of Shuruppak, son of Ubartutu:

"Tear down [your] house and build a boat!"

That stated time had arrived.

In the morning [Shamash] let loaves of bread [tephra volcanic bomb] shower down, and in the evening a rain of wheat [tephra ash/lapilli].

I watched the appearance of the weather—the weather

was frightful to behold! I went into the boat and sealed the entry.

*Just as dawn began to glow
there arose from the horizon a black cloud.*

*[Thunder] rumbled inside of it,
before him went [a dark squall] and [lightning],
[with a large pyroclastic maelstrom] going over mountain and land.*

*The Anunnaki lifted up the torches,
setting the land ablaze with their flare.*

[The stunning] shock [of the maelstrom] overtook the heavens,



and turned to blackness all that had been light.

[Then all the land suddenly] shattered like a [clay] pot.

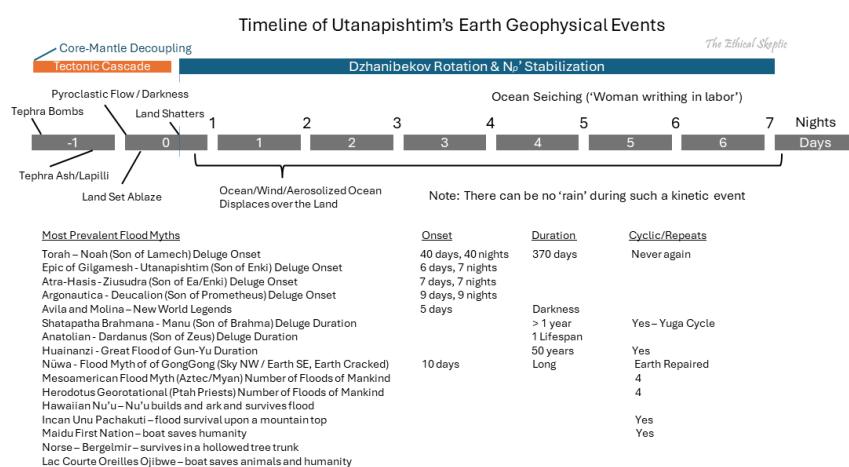
*All day long the South Wind blew ...,
blowing fast, inundating the mountain in water,
overwhelming the people like an [attacking army].
No one could see his fellow,
they could not recognize each other in the torrent.
The gods were frightened by the inundation,
and retreated, ascending to the heaven of Anu.*

*Six days and seven nights
came the wind and onslaught, the storm flattening
the land.*

*When the seventh day arrived, the storm was
pounding,
the flood was a war-struggling with itself like a
woman
writhing (in labor).*

*The sea calmed, fell still, the whirlwind (and) oceanic
flow stopped.*

*I looked around all day long—quiet had set in
and all the human beings had turned to clay!
The terrain was as flat as a roof.*



As one can see from the various comparative notes on inundation myths, three or four of the most prominent deluge myths, aside from the Torah, match the specifics of the timeline depicted above. Indeed, of the 175+ recorded global ‘flood’ myths (P. Bobrowsky, et al., 2007) 33 provide



a time period in which the cataclysm occurred—resulting in an average period of onset (not total duration of high ocean levels) of 6.5 days for the consensus group of 24 mythologies inside this subset.¹⁰⁰ Fourteen of the myths specifically cite a seven day inundation timeframe.^{101 102}

The Chinese Gun-Yu myth cited above is one of two that specify or imply how long the people struggled with the displaced waters (two generations, most of 1 lifespan, or 50 years – our Karst erosion estimate top end). Nonetheless, if our hypothesis bears merit, we believe this inundation effect to be part of a repeating cycle (ECDO – oscillation).

Notice as well, that according to the Chinese inundation myth of Nüwa, their land proceeded to the southeast, while the sky moved to the northwest. This is exactly what happens to [China in the Mediated Dzhanibekov Rotation](#) shown moving from State 1 to State 2 in Exhibit J3 above.

From the Library of Ashurbanipal comes The Legend of Etana.¹⁰³ The largest and most famous collection of cuneiform tablets, including the Legend of Etana, was discovered at Nineveh, the capital of Assyria. Etana was a legendary king of Kish, mentioned in the Sumerian King List, and he was said to have sought to build a great tower or city. However, he encountered difficulties because the people were fearful of coming down from the mountains, where they had taken refuge after a great flood. According to the King List, Etana ruled during the Early Dynastic Period, around the early 3rd millennium BCE (approximately 2900–2800 BCE or earlier). The Sumerian King List places him after the flood and as one of the kings who “made the foundations of civilization” in the post-flood world.

Gilgamesh, on the other hand, is listed as a king of Uruk in a later section of the King List, during the Early Dynastic Period as well, but at a later time. Scholars typically date Gilgamesh to around the 27th to 26th century BCE.



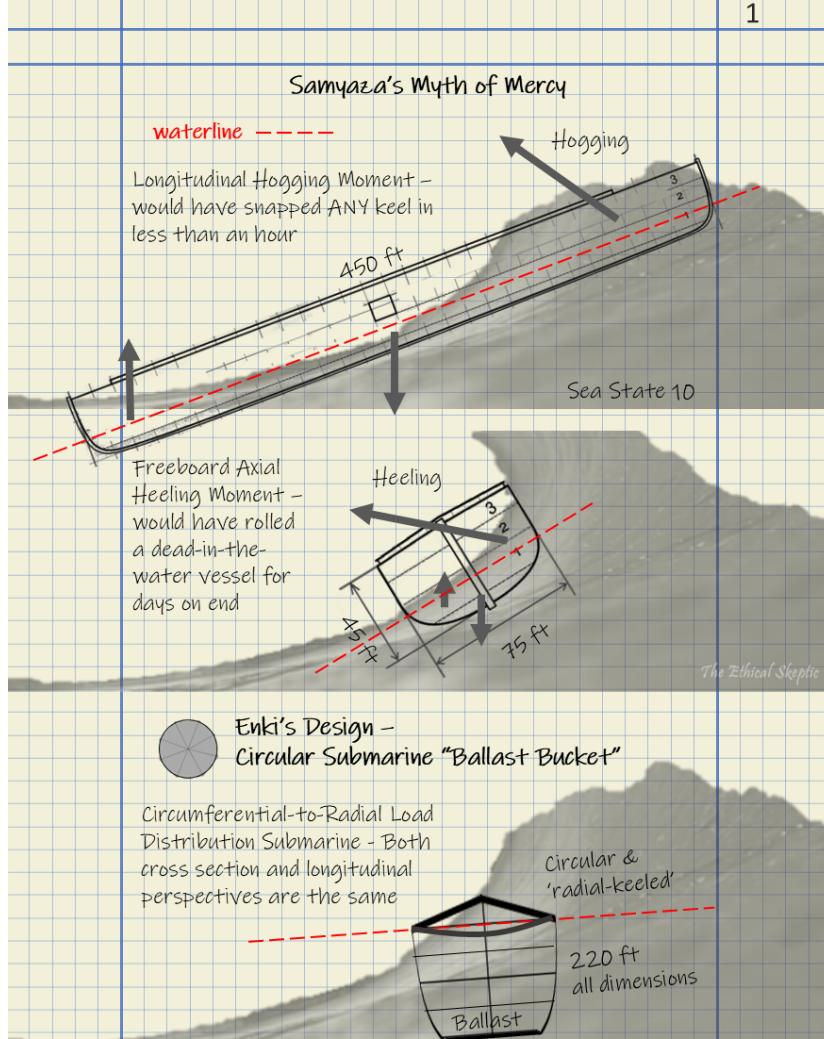


Exhibit P – Surface keelboat compared to Enki’s circular submarine—“equal on all sides”—not a ‘cube’ as is popularly spun.

Finally, pertaining to the comparative credibility of the Torah/Bible narrative, as a lifelong sailor of sometimes heavy seas, I recognize that a long and narrow keelboat design, also known as a ‘surface-piercing/large freeboard’ class of ocean vessel, especially one not under power, would not have survived the kinetic inundation described. The popular depictions of Noah’s Ark, purported by the Bible to be a 450 x 75 x 45 ft vessel of this class (aspect ratio of 6:1 – see top two panels of Exhibit P to the right), would not have withstood the bow-on sea-state-induced moment called ‘hogging,’ and its segmented 450 ft keel would have snapped very quickly.



Furthermore, when waves hit broadside to such a long and narrow vessel, the vessel would have rolled completely, potentially for days on end. Add significant ballast to this, mix the hogging, sagging, and heeling moments into a twisting torsion along a 450 ft keel made of wooden segments, and suddenly you have a violent enclosed space from which no one, including the ship itself, would have survived.¹⁰⁴

From extensive experience in a variety of vessel designs, one does not construct a ship of this design without a means to propel it through the water and keep the bow into the seas and wind. A long, thin, dead-in-the-water surface keelboat is a fatal disadvantage in heavy seas. This observation, as much as anything, suggests to me that the Torah/Bible story was a later fabrication. This was not a fanciful, symbolic, allegorical, nor inspirational story to demonstrate God's providence and mercy. It was a lie—and all other more accurate versions of the account were obliterated or buried. The question is, why? The reader should take note that such obfuscation becomes a consistent pattern in regard to human history and origins.

The only feasible boat design that might have survived such a kinetic inundation would have been a mostly-submerged circular bucket-shaped 'submarine' with deep ballast. In this design, hogging load dynamics would be distributed circumferentially first, and then radially toward the leeward aspect of the vessel, while the hogging moment itself would be much less pronounced as waves would crest over the ship, and could not place hogging load under it, minimizing all surface effects in the process. Additionally, there would be no rolling since the ship would never present a 'long' side in any scenario – being an upright 'pole' to a degree. The mythical God Enki's ark design (see third panel in Exhibit P), one of this exact nature he submitted to Atra-Hasis, was rather non-mythical in its engineered approach to such



unprecedented challenges.¹⁰⁵

Before we close, let's take a few more steps down this uncomfortable pathway of cataclysm for just a moment. Of course, this entire construct raises the key existential question: Why would a responsible entity of any kind purposely place or develop a large sentient civilization like humanity on an ECDO planet prone to frequent flipping, knowing the immense suffering this would cause? This argues poignantly for an atheist viewpoint.

If, however, a putative entity of such opportunity and influence had indeed done this, and if this action could be judged as wrong by an outside party, would this entity not want the evidence of such maliciousness destroyed or even blamed upon randomness or the wickedness of the victims themselves? Would such a despicable act constitute the Enochian ‘unforgivable sin’—a blasphemy against the Force that protects pneuma-life throughout the universe?¹⁰⁶ Mandating its obfuscation by **every available means**—scientific, rhetorical, religious, burning, interment, shortening of human lifespan, social ridicule and defamation, or imperial conquest—it would not matter. A will of such desperation that it might only be thwarted by the gravitas of two million two-and-a-half-ton stones.

Perhaps the Great Pyramid did not constitute a monument after all; rather, it was a purposed message, a safekeep for a preexisting observatory, an impossible stack of stones both flagging the importance of what resides underneath and ensuring that this intellectual property could neither be washed away again, nor confiscated to damnatio memoriae by those who regard themselves as gods. But they try ... oh, they do try.

Such exhibits the elegance of publishing ideas like this inside a private blog article. I do not have to adopt the *pro forma* and magisterial edicts of those who embargo



questions, ideas, and evidence. Wallowing in the quagmire of linear inductive Nelsonian ignorance, while adorning the ironic priestly robes of inquiry.

Perhaps of an even more curious final note, the seal of the first King of Mahenjo Daro, the city we contend inside which Gilgamesh sought to find Utnapishtim,¹⁰⁷ despite its being located a couple hundred miles up the Indus River, depicted a large ocean-going vessel, along with a raven and a dove.

epoché vanguards gnosis

The Ethical Skeptic

LLL

The Ethical Skeptic, “Exothermic Core-Mantle Decoupling – Dzhanibekov Oscillation (ECDO) Hypothesis”; *The Ethical Skeptic*, WordPress, 12 May 2024; Web, <https://theethicalsskeptic.com/?p=84997>

1. The Ethical Skeptic, “Syndicate Science – The Definition”; The Ethical Skeptic, WordPress, 24 Apr 2024; Web, <https://theethicalsskeptic.com/?p=84476> ↫
2. Academic Studies Are Getting Marked Down,” The Wall Street Journal, accessed 30 May 2024, <https://www.wsj.com/science/academic-studies-research-paper-mills-journals-publishing-f5a3d4bc>. ↫
3. Fake scientific papers are alarmingly common,” Science, accessed May 29, 2024, <https://www.science.org/content/article/fake-scientific-papers-are-alarmingly-common>. ↫
4. Burial chamber for anyone, hall of records library, river of mercury cap, power station, rocket launch pad, alien construction, giant construction, granary, water pump, natural formation, celestial energy generator, penny-on-a-fan effect, d

irrigation, stellar gateway, time machine, great Egypt society monument, stellar communications station, king's/national treasure vault, chemical production factory, ceremonial chamber, Earth orbit, rotation, or land mass control system, solar/celestial observatory, ark, ark of the covenant hold, spacecraft navigational aide, home of gods, metallurgy/alchemy work station, home, celestial energy focal prism, rites and initiation chamber, etc.
– please note, that when I use the names 'Khufu' and 'Khafre', this is for pyramid identification only. The notion that these edifices were burial chambers built by those Pharaohs over 20 years in and around 2550 BCE is not a realistic possibility. ↫

5.

A few, but not all, of the predictions I have made and confirmed with this theory:

- A. Earth's three-moment body mass asymmetry.
- B. Dissolution and sloughing of the Earth's inner core (found in 2024).
- C. Disagreement among ancient monuments aligned to true north (celestial pole), as to the geographic location of true north.
- D. 2023 rapid heating of the oceans.
- E. Rapidly heating abyssal ocean layers, distributed across a range of depths, whose centroid is below the average ocean depth.
- F. Sea Salt in human inaccessible areas (Queen's North Air Shaft)
- G. Heavy constriction of the human genome diversity around the date of the last inundation.
- H. Karst geomorphology on the Sphinx (Yes)
- I. Limestone reiterations in the lower passages and chambers of the pyramid (Yes)
- J. Ocean silt in the lower pyramid chamber (inaccessible areas only)
- K. Morphology and size of the erosion


Khafre Pyramid

- L. Detritus (loose incomplete and undissolved CaCO₃(s) heavier than ocean water solids), showing partial reconnection, resting on the Mohs 7 backing stones and accumulating in a parabolic mound (that tapers with the triangular pyramidal-face height – as this hypothesis predicts) at the base of each face of the Khafre pyramid.
- M. Artifacts from the pyramid which pre-date the Fourth Dynasty significantly (Cedar Plank Dixon Relic)
- N. Regional onceanic inundation geomorphologies in the Saudi and Sahara Deserts.
- O. Correspondence in metrics between the geomorphologies in #7
- P. Heat decay of Queen's Chamber niche and horizontal passage
- Q. Transparency of limestone to geomagnetic monitoring frequencies.
- R. Copper cables only in the Queen's Chamber air shafts.
- S. Karst geomorphology on stones which are inaccessible (Queen's North Air Shaft midway up)
- T. The full set of pyramid angles, dimensions, and designs.
- U. Large sediment displacement slide off the coast of Mauritania, conforming to the hypothesis oceanic displacement mega-scouring.
- V. Confirmation of the 104° rotation is found in examining the azimuth differentiations contained in [ancient monuments](#), including the earliest known large circular enclosure in Britain, [The Flagstones](#) in Dorchester, England and its sister monument, the [Mount Pleasant Henge](#).



- 6. The Ethical Skeptic, "The Climate Change Deniers"

Alternative We Ignore (to Our Peril)"; The Ethical Skeptic, WordPress, 16 Feb 2020; Web, <https://theethicalskptic.com/2020/02/16/the-climate-change-alternative-we-ignore-to-our-peril/> ↫

7. "A true polar wandering (TPW) event evidently changed the location of the pole around 11k-9k BP."; UtahGeology website; extracted 12 Jul 2024; <https://utahgeology.com/bin/iceage/index.html> ↫
8. Veritasium; The Bizarre Behavior of Rotating Bodies; YouTube; https://www.youtube.com/watch?v=1VPfZ_XzisU&t=92s ↫
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11. Wenyng Zhang, Wenbin Shen, New estimation of triaxial three-layered Earth's inertia tensor and solutions of Earth rotation normal modes, Geodesy and Geodynamics, Volume 11, Issue 5, 2020, Pages 307-315, ISSN 1674-9847, <https://doi.org/10.1016/j.geog.2020.03.005>.(<https://www.sciencedirect.com/science/article/pii/S1674984720300240>) ↫
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19. Mihai Andrae; ZME Science: *These Revolutionary Maps Are Revealing Earth’s Geological Secrets*; 25 Dec 2024; <https://www.zmescience.com/science/tectonic-model-beautiful-new/> ↫
20. a craton is an old and stable part of the continental lithosphere, which consists of Earth’s two topmost layers, the crust and the uppermost mantle ↫
21. Tsekhmistrenko, Maria & Sigloch, Karin & Hosseini, Kasra & Barruol, Guilhem. (2021). A tree of Indo-African mantle plumes imaged by seismic tomography. Nature Geoscience. 14. 1-8. 10.1038/s41561-021-00762-9. ↫
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25. ChatGPT-4: If the Earth’s core and geomagnetic



poles remain stationary while the outer mantle rotational component undergoes a Dzhanibekov rotation, the resulting observations could be interpreted as a magnetic pole shift inside scientific studies covering such a timeframe. Without a clear understanding and ability to differentiate between core dynamics and mantle movements, such an event could easily be misinterpreted as a conventional geomagnetic pole shift. This misinterpretation could lead to incorrect assumptions about the processes occurring within the Earth's interior. ↪

26. T Frasson, N Schaeffer, H-C Nataf, S Labrosse, Geomagnetic dipole stability and zonal flows controlled by mantle heat flux heterogeneities, *Geophysical Journal International*, 2024;, ggae457, <https://doi.org/10.1093/gji/ggae457> ↪
27. Please note that one could argue 103° as well, given that the north and south faces of Khufu are each 51.5° on average. We would not quibble with this approach. In this approach the “ $52+52=104$ ” annotation would be changed to “ $51.5+ 51.5 = 103$ ”.
↪
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↪
29. <https://x.com/Rainmaker1973/status/1817579048991682575> ↪
30. Griffiths, David J. *Introduction to Electrodynamics*. 4th ed. Cambridge: Cambridge University Press, 2017. ↪
31. Source: NASA Earth Observatory, GRACE: Gravity Anomaly Maps and The Geoid; <https://earthobservatory.nasa.gov/features/GRACE/page3.php> ↪
32. Kirschvink, Joseph & Ripperdan, Robert & Evans, David. (1997). Evidence for a Large-Scale Reorganization of Early Cambrian Continental Masses by Inertial Interchange True Polar Wander. *Science*. 277. 541-545. 10.1126/science.277.5325.541. ↪



33. 1. "The 'precise alignment to true north' of Khufu is based upon an extrapolation and interpretation as to where the Tura casing stone footers ended. As such, those stone alignments involve a certain level of speculative reconstruction, as we do not actually know how the casing of the pyramid actually aligned versus true north. The claim of "extraordinary precision," while based on real measurements and sound archaeological methods, is subject to the inherent limitations and uncertainties arising from the missing original casing stones, corners, and the use of partial data. In addition, alignment to north in the Khufu pyramid today can vary greatly based upon which course of backing stones one chooses as their alignment reference. It is fair to recognize that some of the romanticized precision claims, while based on solid analysis, do contain a hint of narrative embellishment to entice interest in the pyramid's sophistication and the mysteries of its construction."

ChatGPT-4o

2. Mechanism Locking True North for 4,550 Years: The Earth's rotational axis (true north) has maintained a stable alignment with the Khufu Pyramid for the past 4,550 years by the Narrative (actually 6,000+ years, and possibly 9600 years). Some geophysical mechanism would be needed to keep the rotational axis precisely locked that entire time, preventing significant shifts in the Earth's orientation. We are missing that key mechanism as a premise to this argument. If one is to ask the former question, one must also ask this inverse question as well. It suggests an appeal to ignorance at play, and need for genuine skepticism both ways.

3. Variance of Nutation within Precession: We do not have precise measurements of the celestial pole's nutation variance within the 25,772-year precession cycle. This lack of detailed understanding means we cannot definitively conclude whether the Great Pyramid's precision alignment to true north is purely coincidental within this variance or if another factor ensures this alignment. Of the 90 or so global monuments from antiquity which align to the current georotational north pole, the group bears a range of variation of +/- 1.5° (see this article by Mario Buildreps: <https://www.mariobuildreps.com/orientation-pyramids-former-north-poles/>). This is not very precise as a group of measures. Again, we risk an appeal to ignorance with regarding the Giza alignment.

4. Disagreement between Khufu, Khafre, and Menkaure



Alignments: The alignments of the Khufu, Khafre, and Menkaure pyramids to true north do not perfectly match each other, both within each structure (intra-structure) and between the two structures (inter-structure). How do we address this discrepancy tolerance? What physical feature do we select as our single reference for this contention of precision – the one which is closest to true north? That is cherry picking a the most convenient premise for our argument.

5. Other Aligned Monuments: What about the myriad (912 – 90 = 822) of other aligned global monuments that indicate significant historical true polar wander and/or disagreement as to true north? Many of these (all aligned to true north) converge on celestial north poles far from our current one. Do we simply discard the whole body of observational evidence to emphasize only one observation or small subset (9.9%) of observations (see this article by Mario Buildreps: <https://www.mariobuildreps.com/orientation-pyramids-former-north-poles/>)?

6. Inconsistent Alignment within Pyramids: Different components of each pyramid show slight deviations from the true north alignment. This suggests that while the builders aimed for alignment, natural construction variances may have led to accidentals and/or misalignments. In other words, did we cherry pick what we chose as our internal alignment reference as a touch of cultural grandstanding?

7. Finally, there exists a superior (in theoretical applications) description of electromagnetic force which describes it in terms of A (the vector potential) and ϕ (the scalar potential) and not simply classic physics E (electric field) and B (magnetic field) mechanics. A and ϕ theory allows for descriptions that emphasize continuity and the potential for topological and quantum effects that manage the behavior of magnetic bodies in space. In other words, the Earth's geomagnetic field does not exist in isolation—it interacts or is affixed within the solar system A and ϕ magnetic environment. The A field could provide the mechanism by which: 1. The Earth's magnetic system aligns with or is constrained by external magnetic forces. 2. Subtle adjustments in orientation are guided by interactions between the Earth's A field and external vector potentials (not simply itself), providing the precision observed in ECDO theory of State 2 return to State 1. While this issue is indeed salient, it is merely inductive, appeals to ignorance, ignores modern A and ϕ scalar physics, is exposed to the possibility of accident, risks tolerance vulnerability, relies on cherry-picking/cultural grandstanding, and does not rise to the level of a falsification. ↩

34. Furthermore, the measurement error tolerance for any given time interval spanned nearly to the Leschamps excursion limit (6% of DM  *30*

ZAm^2) to begin with. (Panovska S., Korte M., & Constable C. G. (2019). One hundred thousand years of geomagnetic field evolution. *Reviews of Geophysics*, 57, 1289–1337. <https://doi.org/10.1029/2019RG000656>) The Panovska study cited above even summed together the age-uncertainty blending of study averages, which themselves data smoothed over large timescales extrapolated from small geographic sampling regions, and only when such measures were in agreement (Panovska, Section 2.3).

In other words, these studies do not feature a temporal resolution which would alert to this type of event. It would simply appear as noise inside a mundane geomagnetic excursion, if at all.

Greenland and Antarctic ice cores will fail to reveal evidence of this species of true polar wander. The world during State 2 was tectonically active—dark, cold, and wet—not some sunlit, balmy paradise merely spinning on a different axis. How, then, could one possibly refute this reality with ice cores alone? The supposed 700,000-year continuity in ice core data is a linear, inductive assumption—an unchallenged premise, not an inference drawn from rigorous deduction.

The study chart plot-lines look pretty and authoritative—with lots of intimidating notation (“(V) (A)DM [ZAm^2]”) and precision-implying summation functions (“ $V_{(r, \theta, \phi, t)} = \sum \sum \sum (\cdot / \cdot)$ ”) serving as academic window dressing and proxy for a conceptually straightforward yet imprecise measure (volcanic material ‘thermoremanent magnetization’ with 70% of the sampling derived from Europe and Turkey). Such confidence/blending results contrast starkly with the currently observed speed of dipole moment weakening, one which is 10 times faster than any measure found inside these paleogeomagnetic



studies—including the Leschamps event.(Fiona MacDonald; *Science Alert: New Study Shows How Rapidly Earth's Magnetic Field Is Changing*; 11 May 2016; <https://www.sciencealert.com/new-study-shows-that-earth-s-magnetic-field-is-weakening-more-rapidly-than-we-thought>)

This is Gaussian blindness, and as such it is not very informative. It is akin to estimating the ten-minute-interval speed of a car during a 10-day trip, with a standard deviation-based confidence band ranging from 10 to 110 miles per hour and a discrimination interval of half a day, from sampling only conducted while the car was on two-lane roads, and only by means of an agreement between tire and wind noise (no speedometer). Based on this type of analytical approach, the car would never exceed the speed limit and never stop even once for gas, fuel, or restroom.

In systems engineering, when transient signal dynamics exceed weak-observation histories by a factor of 10, the confidence in such historical observations is significantly reduced.(Chiang, L.H. et al.; “Fault Detection and Diagnosis in Industrial Systems”; 2001; ISBN: 1-85233-327-8.) (Chen, Chi-Tsong. Linear System Theory and Design. 3rd ed. New York: Oxford University Press, 1999.)

*Gyre-driven models (Finlay, Aubert, 2016) of our current decline in the Earth's geomagnetic moment, place the attainment of a Leschamps-level of decay, as occurring in less than 1000 years (1900 years to “zero”), a timeframe far below the resolution of current paleogeomagnetic models.(Finlay, C., Aubert, J. & Gillet, N. Gyre-driven decay of the Earth's magnetic dipole. *Nat Commun* 7, 10422 (2016). <https://doi.org/10.1038/ncomms10422> As one may observe in the study graphic linked earlier (Panovska, 2019), we are already 1500 years into such a dipole weakening. The sint-2000 model itself indicating a particularly precipitous drop during this*



timeframe. ↫

35. Nell Greenfieldboyce; *NPR Science: Ancient Trees Show When The Earth's Magnetic Field Last Flipped Out*; 18 Feb 2021; <https://www.npr.org/2021/02/18/969063568/ancient-trees-show-when-theearths-magnetic-field-last-flipped-out> ↫
36. Carlo Laj, Catherine Kissel, Andrew Roberts. *Geomagnetic field behavior during the Iceland Basin and Laschamp geomagnetic excursions: A simple transitional field geometry?*. *Geochemistry, Geophysics, Geosystems*, 2006, 7 (3), pp.n/a-n/a. 10.1029/2005GC001122. hal-03118231 ↫
37. Lund, Steve & Schwartz, Martha & Keigwin, Lloyd & Johnson, Thomas C.. (2005). *Deep-sea sediment records of the Laschamp geomagnetic field excursion (~41,000 calendar years before present)*. *J. Geophys. Res.* 110. 10.1029/2003JB002943. ↫
38. *rotating gif graphics courtesy again of Craig Stone at nobularart.com* ↫
39. *Desert classification is based on the Köppen climate classification system – however, in this definition featuring oceanic displacement striations* ↫
40. *Wikipedia: Euler's rotation theorem*; https://en.wikipedia.org/wiki/Euler%27s_rotation_theorem ↫
41. McElhinney, M.W.; *Paleomagnetism: Continents and Oceans*; 2000; San Diego Academic Press; ISBN: 12-483355-1 ↫
42. Aubert, Maxime & Lebe, Rustan & Oktaviana, Adhi & Tang, Muhammad & Burhan, Basran & Hamrullah, & Jusdi, Andi & Abdullah, & Hakim, Budianto & Zhao, Jian-xin & Geria, I. & Sulistyarto, Priyatno & Sardi, Ratno & Brumm, Adam. (2019). *Earliest hunting scene in prehistoric art*. *Nature*. 576. 1-4. 10.1038/s41586-019-1806-y. ↫
43. Skoglund P, Mallick S, Bortolini MC, Chennagiri N, Hünemeier T, Petzl-Erler ML, Salzano FM, Patterson N, Reich D. *Genetic evidence for two*  

- populations of the Americas. Nature. 2015 Sep 3;525(7567):104-8. doi: 10.1038/nature14895. Epub 2015 Jul 21. PMID: 26196601; PMCID: PMC4982469.* ↪
44. Zeng, T.C., Aw, A.J. & Feldman, M.W. *Cultural hitchhiking and competition between patrilineal kin groups explain the post-Neolithic Y-chromosome bottleneck. Nat Commun 9, 2077 (2018). https://doi.org/10.1038/s41467-018-04375-6* ↪
45. Karmin M, Saag L, Vicente M, et al. *A recent bottleneck of Y chromosome diversity coincides with a global change in culture. Genome Res. 2015 Apr;25(4):459-66. doi: 10.1101/gr.186684.114. Epub 2015 Mar 13. PMID: 25770088; PMCID: PMC4381518.* ↪
46. Karmin M, Saag L, Vicente M, et al. *A recent bottleneck of Y chromosome diversity coincides with a global change in culture. Genome Res. 2015 Apr;25(4):459-66. doi: 10.1101/gr.186684.114. Epub 2015 Mar 13. PMID: 25770088; PMCID: PMC4381518.* ↪
47. *Nature Communications volume 9, Article number: 2077 (2018)* ↪
48. *Chart notice courtesy of Ryan Garner on X, @imkharn: FAO/IIASA/ISRIC/OSSCAS/JRC, 2008. Harmonized World Soil Database (version 1.0) FAO, Rome, Italy, Luxembourg, Austria; March 2009, BIOSAFOR Consortium.* ↪
49. 女媧補天, Wikibooks: Chinese Stories/Nüwa; https://en.wikibooks.org/wiki/Chinese_Stories/N%C3%BCwa ↪
50. Greaney S, Hajdas I, Dee M, Marshall P. *Beginning of the circle? Revised chronologies for Flagstones and Alington Avenue, Dorchester, Dorset. Antiquity. Published online 2025:1-17. doi:10.15184/aqy.2025.28* ↪
51. *Great circle bearing maps courtesy of NS6T's Azimuthal Map generator; https://ns6t.net/azimuth/* ↪
52. *Newgrange site plan in left panel courtesy of M.J.* 

O'Kelly at knowth.com; https://www.knowth.com/new_grange.htm ↵

53. Great circle bearing maps courtesy of NS6T's Azimuthal Map generator; <https://ns6t.net/azimuth/> ↵
54. Dendrinos, Dimitrios. (2016). *From Newgrange to Stonehenge: Monuments to a Bull Cult and Origins of Innovation..* academia.edu.; https://www.researchgate.net/publication/317433973_From_Newgrange_to_Stonehenge_Monuments_to_a_Bull_Cult_and_Origins_of_Innovation/citation/download ↵
55. Newton's Theological Manuscripts, now held at institutions like the National Library of Israel, include his investigations into biblical chronology, sacred geometry, and the dimensions of ancient structures. These writings, which remained largely unpublished during his lifetime, illustrate his belief that ancient monuments, such as the Great Pyramid, held prophetic significance. ↵
56. Image courtesy of finder, Timothy S Kelly, Southwest Florida Metal Detecting, Facebook (public domain), 23 Nov 2024; <https://www.facebook.com/groups/southwestfloridametaldetecting/posts/8775558555890444/> ↵
57. Nikk Ogasa; Science News: "Earth's inner core may be reversing its rotation;" 23 Jan 2023; <https://www.sciencenews.org/article/earth-inner-core-reverse-rotation> ↵
58. Ancient Code: "The Great Pyramid of Giza is located at the exact center of Earth's landmass"; 29 Apr 2024; <https://www.ancient-code.com/the-great-pyramid-of-giza-is-located-at-the-exact-center-ofearths-landmass/> ↵
59. Project Gutenberg; Herodotus: An Account of Egypt: <https://www.gutenberg.org/files/2131/2131-h/2131-h.htm>, ↵
60. Plato. (c. 360 B.C.E.). *The Statesman (Politikos)*. In Jowett, B. (Trans.), *The Dialogues of Plato*. Retrieved from Perseus Digital Library



61. Velikovsky, I. (1950). *Worlds in Collision*. Retrieved from Spirasolaris: Selections from Immanuel Velikovsky's *Worlds in Collision* (1950) <https://www.spirasolaris.ca/wic.pdf> ↵
62. YouTube: "The Why Files: Mysteries Beneath the Ice: The Secrets of Antarctica"; March 2024; <https://www.youtube.com/watch?v=lQz7innxnms> ↵
63. YouTube: Great Pyramid: Lost Technology of the Grand Gallery REVEALED; https://www.youtube.com/watch?v=SsIpjDtEw_U&t=1261s ↵
64. Dunn, Christopher. *The Giza Power Plant: Technologies of Ancient Egypt*. Bear & Company, 1998. ↵
65. Andrew Lawler; Smithsonian Magazine: "The Fall of Zahi Hawass; 17 Jul 2011; <https://www.smithsonianmag.com/history/the-fall-of-zahi-hawass-32319337/> ↵
66. In 2014, the former Egyptian Minister of Antiquities, archaeologist Zahi Hawass was charged with stealing Egyptian antiquities. In the list of items [allegedly] stolen by [Hawass], the most unusual artifact was the ancient copper wires from the Pyramid of Cheops;" YouTube: "New Discovery Inside the Great Pyramid! What Did Scientists Find?"; 20 Apr 2023; <https://www.youtube.com/watch?v=Mr2jqqvHL2W> ↵
67. Ahram Online: Egypt's former antiquities minister Hawass faces fresh corruption charges; 11 Nov 2014; <https://english.ahram.org.eg/NewsContent/1/64/115298/Egypt/Politics-/Egypt's-former-antiquities-minister-Hawass-faces-fr.aspx> "In 2014, Dr. Zahi Hawass, Egypt's former Minister of Antiquities, was implicated in a case involving the unauthorized removal of artifacts from the Great Pyramid of Giza. Three German nationals—Dominique Görlitz, Stefan Erdmann, and Peter Hoefer—entered the pyramid in April 2013 and extracted samples from a cartouche bearing Pharaoh Khufu's name, aiming to support alternative theories about the pyramid's origins. These actions



led to their conviction in absentia, alongside six Egyptians accused of facilitating the act, with all nine receiving five-year prison sentences. Egyptian judicial sources have confirmed that the stolen cartouche ochre material was recovered by German authorities in Berlin, and then handed-over to the Egyptian Embassy in August.” ↫

68. YouTube: “New Discovery Inside the Great Pyramid! What Did Scientists Find?”; 20 Apr 2023; <https://www.youtube.com/watch?v=Mr2jqqvHL2w> ↫
69. YouTube: “Discovering the Closed Door Inside the Great Pyramid: The Upuaut Project”; (Full Documentary)<https://www.youtube.com/watch?v=cT16PVkhwrg&t=2997s> ↫
70. Ancient Architects, YouTube: EXCLUSIVE: First Look Inside the Great Pyramid Queen’s Chamber (2022); pulled 9 Jun 2024; <https://www.youtube.com/watch?v=Ki0405ulvIY> ↫
71. *Underground concept recreated from the Synthetic Aperture Radar scan findings press conference 15 Mar 2025; continued work of Biondi F, Malanga C. Synthetic Aperture Radar Doppler Tomography Reveals Details of Undiscovered High-Resolution Internal Structure of the Great Pyramid of Giza; Remote Sensing. 2022; 14(20):5231.* <https://doi.org/10.3390/rs14205231> ↫
72. 3ROAM – Antenna Length to Frequency Calculator; https://3roam.com/antenna-length-to-frequency-calculator/#google_vignette. ↫
73. ChatGPT-4o agrees with our engineer:
 1. Active Antenna Characteristics (Medium Frequency/High Frequency Antenna)
An active antenna with a standing wave ratio (SWR) of 1.27 indicates a relatively low amount of power reflected back towards the source, which is efficient for signal transmission and reception. The design frequency of 1.932 MHz and its resonances at various frequencies suggest a broad range of operability. This range of resonances could imply a sophisticated design, possibly to maximize sensitivity across different frequencies.



across multiple frequency bands. Such a feature might have been employed for detecting a wide range of signals or for enhancing communication capabilities.

2. Close Proximity of Cables

The close proximity of the two cables could indeed afford high amperage and low voltage, particularly in an active antenna configuration. In such a setup, the antenna might use an active component, like a transistor or amplifier, to boost signal strength. This increased sensitivity would be crucial for detecting weak signals or for long-range communication. The high amperage could enhance the antenna's ability to pick up faint signals, making it more effective in its role.

3. Polarized or Differential Detection

The potential for using the two cables in a polarized or differential detection role is worth exploring. Polarization could help in distinguishing between different signal sources or reducing interference from unwanted directions. Differential detection could enhance signal clarity by comparing the signals received by the two cables, effectively canceling out noise and improving signal-to-noise ratio. This might not have been commented upon, but it could provide additional functionality to the antenna system. ↩

74. Wang, C., G. Hajj, X. Pi, I. G. Rosen, and B. Wilson (2004), Development of the Global Assimilative

Ionospheric Model, *Radio Sci.*, 39, RS1S06,

doi:10.1029/2002RS002854. ↩

75. P.S. Hernandez; Preliminary theory: Pyramidal structures as functional resonant devices through mimicry of subatomic particle geometry; 10 Jan 2025; <https://pshs04.wixsite.com/ph-s-stash/post/preliminary-theory-pyramidal-structures-as-functional-resonant-devices-through-geometric-mimicry-of> ↩

76. Leeder, M. R. (1999). *Sedimentology and Sedimentary Basins: From Turbulence to Tectonics*. Blackwell Science. ↩



77. Pamela Pearson; "Why Burn Limestone?"; 20 Mar 2017; <https://oldknows.com/2017-03-20-a-flow-chart-showing-the-uses-and-processes-of-limestone.html> ↪

78. ChatGPT-4o comments: *To detect P-waves effectively in a static chamber infiltrated with sensors, the fluid used should have properties that allow efficient transmission of seismic waves while being compatible with the sensors and the chamber environment. One of the best fluids for this purpose is water. Here are the reasons why:*

Acoustic Impedance Matching: Water has an acoustic impedance that is well-matched to many materials used in seismic sensors, ensuring efficient transmission of P-waves from the fluid to the sensors.

High Transmission Speed: P-waves travel through water at a speed of approximately 1500 meters per second, which is relatively high compared to other fluids, allowing for clear and fast detection of seismic signals.

Low Attenuation: Water has low attenuation for seismic waves, meaning the waves can travel longer distances without significant loss of energy, leading to clearer signals.

Availability and Safety: Water is readily available, non-toxic, and safe to handle, making it a practical choice for use in a controlled experimental setup.

Temperature Stability: Water maintains its properties over a range of temperatures, which is beneficial for consistent and reliable seismic measurements.

While other fluids like mineral oil or glycerin could also be used, they often have higher attenuation or are less practical to handle. Thus, water is generally considered the best fluid for detecting P-waves in such a setup. ↪

79. Ancient Origins: *The Great Pyramid Experiment: Exploring Infrasound Technology Use By The Ancients* <https://www.ancient-origins.net/artifacts-other-artifacts/great-pyramid-0012179> ↪

80. YouTube: "When was the Subterranean Chamber built? | Great Pyramid of Giza | Lines in Sand"; 

<https://www.youtube.com/watch?v=iiozjuoILuo> ←

81. The frequency range for infrasound, which can be generated by natural sources such as earthquakes, volcanic activity, and other geological phenomena, typically lies between 0.1 Hz and 10 Hz. This is the range where infrasound waves are most effective at traveling long distances through the Earth's solid materials, such as those originating from the core (Inner Core Boundary and/or D'' layer) and propagating to the surface.

Earthquake P-waves are employed as the sound generation mechanism for the velocity based mapping of the core and LLVP structures themselves. Body waves, specifically Primary waves (P-waves), that travel through the Earth as a result of an earthquake typically have a frequency range between 0.1 Hz and 10 Hz. However, most of the energy from these waves is concentrated in the lower part of this range, typically from 1 Hz to 5 Hz. Inner Earth activity is attenuated more quickly because it falls in the higher frequencies, 5 Hz to 10 Hz.

P-waves are capable of traveling through the Earth's interior and are the fastest seismic waves, thus they are the first to be detected by seismometers after an earthquake occurs. This makes the 5 to 10 Hz range quite reasonable for detecting infrasound signals emanating from deep within the Earth, including potential core noise (sources: Wikipedia on Infrasound, White, B. C., Elbing, B. R., and Faruque, I. A.: Infrasound measurement system for real-time in situ tornado measurements, Atmos. Meas. Tech., 15, 2923–2938, <https://doi.org/10.5194/amt-15-2923-2022>, 2022.).

This frequency range corresponds to wavelengths that are tens of meters long, making them suitable for penetrating deep into the Earth's structure and reaching the surface where they can be monitored. These properties of infrasound align well with the idea of using such frequencies to detect and study geophysical phenomena originating from the Earth's core and other deep layers. ←



82. Wikipedia: Seismic wave/Bod wave/P-waves; https://en.wikipedia.org/wiki/Seismic_wave ↫
83. LibreTexts: Geosciences: 6.6: Seismic Waves; [https://geo.libretexts.org/Courses/Lumen_Learning/Book%3A_Physical_Geography_\(Lumen\)/06%3A_Tectonic_Forces/6.06%3A_Seismic_Waves](https://geo.libretexts.org/Courses/Lumen_Learning/Book%3A_Physical_Geography_(Lumen)/06%3A_Tectonic_Forces/6.06%3A_Seismic_Waves) ↫
84. The Khufu Pyramid: The Shaft or Well: Important notes: ; <https://khufupyramid.dk/important-information/important-notes> ↫
85. "The Great Pyramid Of Giza: A Complex Of Chemical Mysteries;" 15 Nov 2023; <https://www.ecotravellerguide.com/the-great-pyramid-of-giza-a-complex-of-chemical-mysteries/> ↫
86. Academy of Ancient Texts: "The Epic of Gilgamesh, Tablet XI"; <http://www.ancienttexts.org/library/mesopotamian/gilgamesh/tab11.htm> ↫
87. James Dinneen; New Scientist: Forces deep underground seem to be deforming Earth's inner core; 17 Feb 2025; <https://www.newscientist.com/article/2467491-forces-deep-underground-seem-to-be-deforming-earths-inner-core/#Echobox=1739807023> ↫
88. Wikipedia: Upuaut Project; https://en.wikipedia.org/wiki/Upuaut_Project ↫
89. The Why Files (Nov 2023). Göbekli Tepe and the Prophecy of Pillar 43 [Video]. YouTube.<https://www.youtube.com/watch?v=r4xzFWW-FAA&t=646s> ↫
90. YouTube: You Won't Believe This Disturbing Gobekli Tepe Update; 10 Jun 2024; <https://www.youtube.com/watch?v=cPNgGnUrCKM> ↫
91. "the ICOMOS panel considers that there is an imbalance between the scientific research requirements and prospects as indicated in the nomination dossier, and the proposed management plan. The ICOMOS Panel would appreciate if the State Party could provide reassurances regarding the continuing medium-and long-term funding of fundamental, independent, scientifically activated and managed research programmes." ICOMOS 

Evaluation Unit letter to UNESCO, 22 Dec 2017;
<https://whc.unesco.org/document/165629> ↵

92. Chan Thomas, *The Adam and Eve Story*. Bengal Tiger Press; 1963; p. 45; https://nobularart.com/media/The_Adam_And_Eve_Story-Chan_Thomas.pdf ↵
93. "A true polar wandering (TPW) event evidently changed the location of the pole around 11k-9k BP."; UtahGeology website; extracted 12 Jul 2024; <https://utahgeology.com/bin/iceage/index.html> ↵
94. YouTube: Mysterious 11,000-Year-Old Statues: Were the People of Göbekli Tepe Starving to Death?; <https://www.youtube.com/watch?v=aoGg3VPdVLA> ↵
95. Genesis 8:4-11: 40 days after the first mountain peaks reappeared Noah releases a dove which returns with nothing, then 7 days later he releases it again and it returns with an olive leaf in its beak. ↵
96. Gardening Know How. Propagating Olive Trees: How To Grow An Olive Tree From A Pit. Available at: <https://www.gardeningknowhow.com/edible/fruits/olive/propagating-olive-pits.htm>. Accessed May 15, 2024. ↵
97. "[The Gods An and Enlil gave Zi-ud-sura and his wife eternal life and] settled Zi-ud-sura the king in an overseas country, in the land Dilmun, where the sun rises.;" ETCVL: The Sumerian Great Flood Story: Segment E; <https://www.mesopotamiangods.com/the-sumerian-great-flood-the-flood-story-translation/> ↵
98. Academy of Ancient Texts: "The Epic of Gilgamesh, Tablets IX, X, XI"; <http://www.ancienttexts.org/library/mesopotamian/gilgamesh/tabc10.htm> ↵
99. Academy of Ancient Texts: "The Epic of Gilgamesh, Tablets IX, X, XI"; <http://www.ancienttexts.org/library/mesopotamian/gilgamesh/tabc11.htm> ↵
100. P. Bobrowsky, et al. "Comet: An Interdisciplinary Approach;" Springer, 2007; <https://annas-archive.org/md5/206daef49a836d9a465f7c0647ed7a91> ↵
101. Mark Isaak; 250 Flood Stories from Around the



World; 2002; <https://talkorigins.org/faqs/flood-myths.html> ↵

102. *Die Flutsagen*, Richard Andree (1891): <https://archive.org/details/dieflutsagen00andrgoog> (German) – 88 flood accounts (many of which are not found in the previous link). ↵
103. Wikipedia: Library of Ashurbanipal; https://en.wikipedia.org/wiki/Library_of_Ashurbanipal ↵
104. *The challenges faced by long vessels in rough seas, including hogging and sagging stresses, are well-documented in naval architecture. These phenomena are extensively covered in sources such as the Society of Naval Architects and Marine Engineers' Principles of Naval Architecture. Additionally, the propensity for long, narrow vessels to roll in beam seas is a recognized issue in ship design and stability.* ~ Society of Naval Architects and Marine Engineers. *Principles of Naval Architecture*. Various editions. This comprehensive reference covers the fundamental principles of ship design, including the structural stresses of hogging and sagging, and the stability challenges faced by vessels in various sea conditions.
105. Dr. Irving Finkle; “The Ark Before Noah: A Great Adventure”; extracted 3 Jun 2024; https://www.youtube.com/watch?v=s_fkpZSnz2I ↵
106. *The Complete Book of Enoch: Chapter 5 – Book of the Words of Righteousness, Verse 5: “Your petition [to the high council for forgiveness] will not be granted unto you. And from henceforth you shall not ascend [back] into heaven unto all eternity, and in bonds of the earth the decree has gone forth to bind you for all the days of the world.”*; <https://ia801001.us.archive.org/19/items/TheCompleteBookOfEnochStandardEnglishVersionJayWinter/The%20Complete%20Book%20of%20Enoch%2C%20Standard%20English%20Version%20-%20Jay%20Winter.pdf> ↵
107. Two *seals discovered in the (c. 2500-1750 BC) from the DK area of Mohenjo Daro and one graffiti have* 

representations of sea-going ships. There are two birds, forward and aft which seem to be dishakak used for finding direction. "It was common to carry such birds aboard, because their infallible flight towards the land when released helped the mariners in locating the direction of the land." The biblical Noah kept a raven and a dove in his ark and let them out at intervals to find out dry land. ~Mathew, K. S. (2018). Shipbuilding, Navigation and the Portuguese in Pre-modern India. Routledge. p. 32. ISBN 978-1-351-58833-1. ↩

This entry was posted in [Ethical Skepticism](#) and tagged [Dzhanibekov Effect](#), [ECDO](#), [ECDO Hypothesis](#), [ECDO Theory](#), [Exothermic Core Theory](#), [pole flip](#).
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Decoupling – Dzhanibekov Oscillation

(ECDO) Theory →

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Newest ▾



**Scott Creighton**

⌚ 10 days ago

Hi TES,

You might find this article of interest (check out the photos – I think these domes or geological blisters (bubble-wrap) could be evidence of mantle upwelling occurring long ago and preserved in the Siberian permafrost):

<https://today rtl lu/news/science-and-environment/a/2298671.html>

This is a topic very close to my heart and one I've been trying to 'solve' for a very long time. Hope you find the article useful.

SC

👍 0 ⚡ Reply

**Bolt Upright**

⌚ 13 days ago

A fascinating read.

What happened to the trillions of tonnes of biomass and topsoil that were scoured and deposited at the margins of the surge?

👍 0 ⚡ Reply

**The Ethical Skeptic**

Author

🔗 Reply to Bolt Upright ⌚ 12 days ago

It was rendered solute, flat, & dead by the salinity of ocean inundation for a period of time. The inundation was a change in oceanic basins, not a temporary tidal wave. Then we had a rotation back to our current orientation as well.

The second article in the series cites the massive landslide deposition off the coast of West Africa: <https://theethicalskptic.com/2023/12/18/hidden-in-plain-sight/>

👍 0 ⚡ Reply



**Bolt Upright**

Reply to The Ethical Skeptic 12 days ago

I live near the edge of the Western Australian salt flat / Great Victoria Desert and this is a good explanation of the striations and salinity, but I would have expected to see at least a "bath ring" of fertility from which the salt had leached.

You don't mention Machu Pichu, it's a refuge at high elevation close to the second Euler west node, and apparently built with the same monumental permanence as Khufu.

0 Reply

**Bolt Upright**

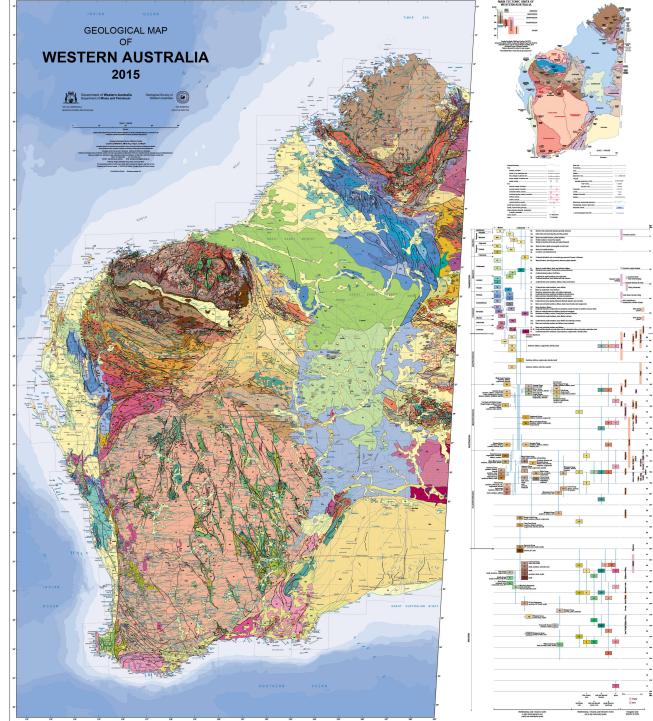
Reply to Bolt Upright 6 days ago

A few results from online searches;
Interactive map of the geology of WA https://geoview.dmp.wa.gov.au/geoview/?Viewer=GeoView&_gl=1%2Anjr89m%2A_ga%2ANDA0ODQ3NTk0LjE2MzcxMjIxNTQ.%2A_ga_S1QYDDVVV5%2AMTcyNzQxMTMxNi400TguMS4xNzI3NDE1MDk4LjAuMC4w

It looks, to my untrained eye, as though the area in blue has been eroded to bedrock and covered with sand (no child units). Streamlines show in the adjacent granites and terrace units.

A similar result here





?v=1577939310

A map of soil salinity data:
image/gif; base64, R0lGODlh/AHJAef/AP///

There are ocean deposits of the south west corner
<https://www.mdpi.com/2504-3900/87/1/5> (note the
large organic content) and Carnarvon Basin https://www.researchgate.net/figure/Structural-elements-of-the-Northern-Carnarvon-Basin-and-adjacent-basins-showing-oil-and_fig1_273380275

1 like 0 dislike [Reply](#)



trebon

1 month ago

Pretty obvious so sorry when already posted: From an RF design view the copper wires form a dipole. Because of hardness to access even the most advanced civilization will use more than one on each side in an investment that size. You gain redundancy, can do quality measurement and easy replacement. In case of that the construction is made as a loop with some length of nonconductive rope in the middle. At the antenna outer end a round block works as deflection pulley. In case of maintenance a pull wire on one end will be added and the whole antenna... [Read more »](#)



Like 0 Dislike Reply



trebon

1 month ago

Nice idea, thanks for the elaborated [hypothesis](#). Just a few questions.

Do your dzhanibekov-oscillation relies on more than a wingnut in an atmosphere with artificial microgravity?

What about the moon that stabilized the earth rotation?

Why is only one pyramid affected from the high water level

Where are the erosions from the currents and the sandy wave movements which imo will round all sharp edges of limestone in a few decades?

Why do you believe that the desert whale skeletons aren't fake (for me it looks so)?

Like 0 Dislike Reply



The Ethical Skeptic

Author

Reply to [trebon](#) 1 month ago

trebon Yes, the Dzhanibekov impetus is created by the 3 axis moment, but there is far more at play here than simply that principle. This is why it is called a 'Mediated' Dzhanibekov oscillation. The moon would only serve to bring on State 2, State 1 is slightly counter the moon's effect. Either way it is not the overriding principle. All three Giza pyramids have the water erosion. Only one was high enough to keep part of its stones. The Tura limestone casing stones absorbed all rounding kinetics, by dissolving much faster than they eroded from friction. The Faiyum basin... [Read more »](#)

Like 0 Dislike Reply



trebon

Reply to [The Ethical Skeptic](#) 1 month ago

Thanks for the answer, what do you mean with mediated oscillation and again: is there only that example in real world?



The Pyramid that kept the stones on top (Khafre) is smaller than Khufu (w/o top cover).

From what do you know tat it's water erosion, they were thousands of years in a sandblaster stream.

0 Reply



The Ethical Skeptic

Author

Reply to trebon 1 month ago

The article explains the mediation physics. We only have the Earth as our example of this.

Khafre's peak is higher than Khufu's.

The cap and water line on Khafre differentiate weathering from erosion. Think deductively, not inductively.

These things are explained in the second article:
<https://theethicalskptic.com/2023/12/18/hidden-in-plain-sight/>

0 Reply



trebon

Reply to The Ethical Skeptic 1 month ago

Thanks again, actual [initial] pyramid height in Wikipedia: Khufu: 138.5m [146.6m] (Great pyramid no top cover) Khafre: 136.4m [143.5m] (top cover) Like to read this high intelligent but very dense article, haven't grasp a lot on the first read so please allow another question. Regarding the lower chamber as an focal point is a pretty fascinating idea. On that low frequencies the signal (of whatever nature) will not see all the gaps, blocks, the fill material between casing and blocks aso. But as an useful antenna it must be of (near) parabolic shape like a satellite dish. The pyramid shape... [Read more »](#)

0 Reply



**The Ethical Skeptic**

Author

🔗 Reply to trebon ⏰ 1 month ago

No. On ship, the Navy communication engineers preferred a flat surface for most antenna and radar array applications. The parabolic shapes are for focused beams only. Those are not relevant here.

0 Reply

**trebon**

🔗 Reply to The Ethical Skeptic ⏰ 1 month ago

That's on phase arrays and radar specials. For weak signals ... However will read the recommendations in the next weeks.

Thanks and have a nice time.

0 Reply

**The Ethical Skeptic**

Author

🔗 Reply to trebon ⏰ 1 month ago

No, we used flat screen antennas to look at and over the horizon or for a ionospheric skip in the navy, never dishes. Those are for satellites. The antenna analysis included in the study is done by a career antenna specialist for the DOD.

0 Reply

**johnm33**

⌚ 1 month ago



Hawaii sits close to 19:47° and retains a connection to deep convection, but now more action seems to take place beneath (ish) Fiji, also close to 19:47° and a significant plume, though it surfaces by Tonga. Was this the result of an actual or magnetic flip? I'm beginning to suspect the subduction(-180°) zone there is becoming active and is on the brink (geological time) of producing more sea floor.

1 like 0 dislike  Reply



Olga

1 month ago

Any thoughts about the supposed discovery of some sizable structures beneath the pyramids using a proprietary form of Radar? I am hearing sizes of two to three kilometers tall with spiral attributes encompassing the area beneath all three pyramids.

If these structures are verifiable it will most likely change our understanding of history – so why let it out now?

1 like 0 dislike  Reply



The Ethical Skeptic

Author

Reply to Olga 1 month ago

Staying mute on it right now Olga, and simply watching with the popcorn popping. I do however, love that we can entertain such out-of-the-box thinking now. A big change.

TES

1 like 0 dislike  Reply

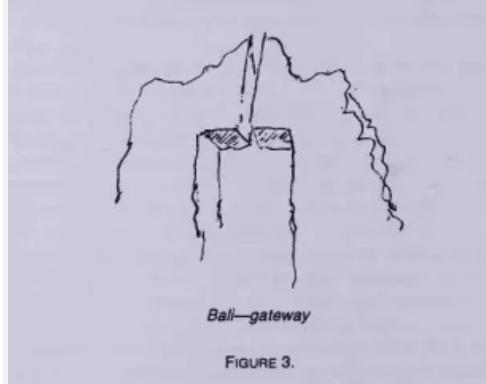


Goldenhawk

1 month ago

I'm revisiting this for a third reading, still finding things I missed the first two times. I find I'm resonating more and more with your hypotheses. First, regarding Exhibit J9 and the Np' orientation of the entrance to Newgrange, I was astounded by this new perspective. I visited Newgrange in 2007. Today, I wondered when   and  by whom it was  

established that the entrance was aligned with the Winter Solstice sunrise. Turning to Newgrange Excavation Report Critique by Alan Marshall, I learned that “The second area of excavation was the passage itself which was consolidated and protected with concrete... [Read more »](#)



0 [Reply](#)



Frank

⌚ 1 month ago

Let put Greenwich for a moment aside.

If the kephru line could be the zero?

What will change?

In fact decimals nr are just a convention.

As well Latitude and longitude are “recent” definition for scientists and cartographers.

Probably inspired by someone who knew the real base of facts about Giza field. Not only.

Rgds

F

0 [Reply](#)



Frank

⌚ 1 month ago



In this video Prof Malanga states

"In the quantistic formulas we Discovery the universe and US are part of this big box"

"We are part of the esperiment and that ourselves we influenze the reality that surround us"

"When we did an esperimenti meant that we influence the result of the esperiment"

<https://youtu.be/3Ct8onpUfKc?feature=shared>

Long interview in italiano on a strange private TV

Seems lime ki da exotheric

Rgds

Frank

1 0 1 Reply



Lago

⌚ 2 months ago

TES, The extra “checksum” in Exhibit L involving The Geographic Center of the Earth is compelling enough. But yours and Nobulart’s observations of the demarcations in multiple stone circles far from Egypt are quite disturbing.

You note that the one of the antlers marks the back azimuth to Np'. I can't wait until they excavate the eastern half of the circle...I have a feeling that they just might find a third antler pointing right at Np', and a fourth marking the back azimuth to Np!

1 0 1 Reply



The Ethical Skeptic

Author

✉ Reply to Lago ⌚ 2 months ago

Well stated on both counts! TES

1 0 1 Reply





Lago

⌚ 2 months ago

TES,

It made my day to see you tweet out the south-facing shaft star chart today. Spotting and aligning those constellations is a titanic accomplishment for our species.

👍 0 👎 1 ↗ Reply


The Ethical Skeptic

Author

🔗 Reply to Lago ⌚ 2 months ago

Thanks Lago, I consider it pretty major as well.

👍 0 👎 1 ↗ Reply


Lago

🔗 Reply to The Ethical Skeptic ⌚ 2 months ago

I should add that I was referring specifically to *your* identification of them!

(And of course the construction itself was a big deal too!)

👍 0 👎 1 ↗ Reply


Nick

⌚ 2 months ago

I know its hard to predict but when do you think this may occur? I'm torn between two outcomes; the flip or an asteroid impact bc we are seeing more and more steroids coming our way. If you follow Vedic text and read the latest book "Yuga shifts" by BIBHU DEV MISRA he places the start of the shift on 3/21/25 based on astronomical alignments. I find it funny with NASA saying an asteroid may impact 2032 bc he also feels between 2032 and 2040 is when we will enter the densest part of the toroid meteor stream. Which makes... [Read more »](#)

👍 0 👎 1 ↗ Reply




The Ethical Skeptic Author

Reply to [Nick](#) 2 months ago

An asteroid will not carry the kinetic potential to cause this true polar wander (not really a flip, per se). Only the Earth's magnetic core and mantle moments carry such potential energy.

Predicting how this system will act is difficult, because we do not know enough about it in order to determine such precision.

TES

0 Reply



Nick

2 months ago

The octagonal shaped structure they found in Antarctica, I find incredibly interesting. I always pay attention to structures and society's that base their life around certain geometric shapes and numbers. There is a reason why a sweat lodge used by Indians has 16 poles, just like why this structure is 8 sided. Shape controls the function. What do you think was the purpose of this structure? Was it a bunker that they built and got wrong after the land masses moved and it was buried under ice? Or could this have been another structure like the great pyramid to help... [Read more »](#)

0 Reply



The Ethical Skeptic Author

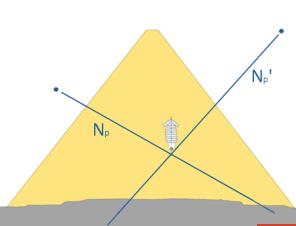
Reply to [Nick](#) 2 months ago

Based upon the two inscriptions in the doorway of the Octagon, it is very possible that the edifice was used to influence or offset further core-mantle decoupling shifts.

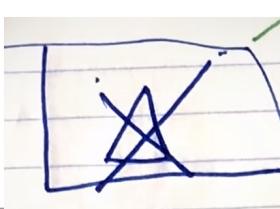
See article image:



Coin from antiquity found in Mexico in 1983



Our west perspective of Khufu King's Chamber shafts



The Ethical Skeptic



?resize=1024%2C293&ssl=1

The second door inscription can be seen in this image, and implies a D-layer decoupling:



?ssl=1

Which hidden chamber are you talking about, the one inside the Khufu pyramid?

TES

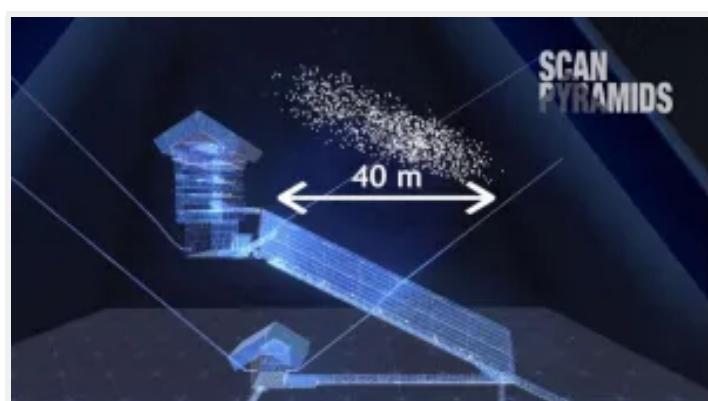
0 Reply



Nick

Reply to The Ethical Skeptic 2 months ago

Sorry, yes the hidden chamber in Khufu.



0 Reply



The Ethical Skeptic

Author

Reply to Nick 2 months ago

This chamber has already been entered around 3400 BCE, as shown by the side

King's Chamber airshaft around that time – by the raiders who dropped the 'Dixon Relics' into the bottom of that shaft. It will be completely empty – as those who raided the edifice were there to remove any trace of technology, history, evidence, and of course valuable materials. I have a photo of the side penetration into that North Shaft in my 'Hidden in Plain Site' article. The question is, how did these pre-dynastic ancients know that chamber was there? Unless they... [Read more »](#)

1 0 Reply



Nick

Reply to [The Ethical Skeptic](#) 2 months ago

That would explain then why no work has been done.
Thanks

1 0 Reply



John Day

Reply to [Nick](#) 1 month ago

Sir Skeptic, I just came across a scientific paper:
Synthetic Aperture Radar Doppler Tomography Reveals Details of Undiscovered High-Resolution Internal Structure of the Great Pyramid of Giza

<https://www.mdpi.com/2072-4292/14/20/5231>

Described breathlessly here: https://x.com/gregreese/status/1902048044272562527?ref_src=twsrc%5Etfw%7Ctwcamp%5Etweetembed%7Ctwterm%5E1902048044272562527%7Ctwgr%5Ee7418afda8d37de4b6b7ea81256fa8f404bc83fa%7Ctwcon%5Es1_&ref_url=https%3A%2F%2Fchoiceclips.whatfinger.com%2F2025%2F03%2F20%2Fthe-greatest-archeological-find-in-history-was-just-discovered%2F

I presume that you have seen this and that it needs more investigation before you can hang upon it.



Last edited 1 month ago by John Day

0 Reply



The Ethical Skeptic

Author

Reply to John Day 1 month ago

Yes, and correct. It needs more investigation before I can make any comment. Did light off a storm though!!...

TES

0 Reply



Dan

2 months ago

the galactic center propagates its magnetic moment outward throughout the whole galaxy, so it would be expected that every star system in the galaxy would average one global magnetic shift and one reversal for every rotation period of the black hole. occam's razor might suggest that geomagnetic flips and rotational realignments for rocky planets are more of a typical feature of living in the milky way, rather than a rotational anomaly of earth alone. thank you for the information, you have put together a remarkable number of the puzzle pieces. it's certainly not coincidental. do you think it's a coincidence... [Read more](#)

»

0 Reply



Nick

2 months ago

Great article, thanks for taking the time to research and interpret what you think the real purpose is. I have one question, if the earth undergoes such a violent series of events during the decoupling, would we still see evidence of asteroid impacts from 2 billions years to millions of years ago? Wouldn't most of the scars left get erased during the inundation of water and the 1000 mph winds? Thanks



Like 0 Dislike Reply



The Ethical Skeptic Author

Reply to Nick 2 months ago

A great example is meteor crater in Arizona. Impact from 50,000 years ago. You can see the ocean striations entering it on the southwest side of the structure. It is eroded but not erased. 99% of Earth's meteoric impacts have been completely erased. Traditionally, we attribute this to natural weathering. I am not a big fan of traditional explanations any longer. From experience.

TES

Like 0 Dislike Reply



pshs

3 months ago

This is pshs04.

Thank you for adding my research into your update! I await your thoughts on the second, more exploratory paper.

Like 0 Dislike Reply



The Ethical Skeptic Author

Reply to pshs 3 months ago

Thanks for finding that material pshs!

TES

Like 0 Dislike Reply



The Ethical Skeptic

Author



3 months ago

argmax,

You have maliciously misrepresented my work and have gone further by attempting to impugn my character through that misrepresentation. As another poster here has previously accused you, I am now inclined to suspect that you are not engaging honestly

0

**The Ethical Skeptic**

Author



① 3 months ago

What this serves to rule out is famine and disease. The culling can't be war, because it is completely global. The only option left is massive meteor strike, or flip. And they would not have been able to prepare for a massive meteor strike – so that is eliminated as well.

A predicted flood – it confirms well.

0

**The Ethical Skeptic**

Author



① 3 months ago

Women were property. 1 man, his son's and lots of wives/servants/concubines pulled in from other conquered tribes. 1 lineage of Y-DNA was accompanied by 5 to 12 mtDNA lineages. This is actually what I predicted. Chiefs preserved their household and left everyone else to die. It confirms the hypothesis well.

0

**Milo**

① 3 months ago

I computed the lat/long for various cities, monuments, volcanoes in State 2. I then took a point 1deg north of it in State 1 and computed lat/long in State 2 and computed the angle of rotation of each location.

I got a rotation of 103.3884 for the Giza pyramid. It seems apparent in the video this is what's happening. But still pretty unique location on earth for that rotation.

I also got a rotation of 94.13831 for Göbekli Tepe.

0 Reply



**Willey Wanker**

⌚ 3 months ago

Sir, you make my head hurt... I am trying valiantly to understand the information presented, not succeeding very well. My real question is this, if ECMD (or perhaps better stated, when) occurs within the next 40 years or so (my extreme limit of my possible life time, all things being optimal per my current understanding) how likely would survival of such an event be? Is this something I can change in any realistic manner? If not, I will stop worrying about something I can not change...

Thank you for presenting this information! I really do appreciate your efforts!

Hal

0 Reply

**The Ethical Skeptic**

Author

🔗 Reply to [Willey Wanker](#) ⌚ 3 months ago

LOL! Sorry about that WW..

1. We don't know if the cycle will repeat the same again, or if it will repeat at all in the near term.
2. You can survive the event, but will you survive the aftermath, and will it be worth it?

The purpose of the hypothesis is to petition for study, not encourage people to panic.

TES

0 Reply

**Milo**

⌚ 3 months ago

The [Lucas de Heere watercolour of Stonehenge](#) shows 2 different pairs of shorter “alignment stones” at an angle to one another. Could Stonehenge have been designed to showcase the sun’s path in State 2 as well?

0 Reply



**Lago**

④ 4 months ago

TES,

I love the graphic you tweeted out today showing Pillar 43 with the green circle containing more granular ticks designating the Great Year. Question about the constellations — in the center of the great circle is a dodo bird-ish constellation that seems to partially overlap with what today we'd identify as Draco. Is my interpretation correct? In other words the Gobekli Tepe culture had another constellation that included some of the stars in what the Greeks called Draco.

0 Reply

**The Ethical Skeptic**

Author

🔗 Reply to Lago ④ 4 months ago

Lago, that is correct. The asterisms from 14,600 BCE were not the same as we observe today, save for Cygnus itself. It is an interesting observation. Given that birds were likely a big part of their diet, I suspect they invested a lot of sacred imagery in that motif. Snakes as well – cuz, where there are birds, there are always snakes.

TES

0 Reply





John Balsevich

④ 4 months ago

Dear ES,

Fascinating article!

Just wondering, since the largest store of carbon is present in the Earth's crust as inorganic carbon, mainly carbonates which disproportionate into CO₂ and metal oxides on heating around 700 degrees C, what do think of the possibility core mantle decoupling being correlated to increased volcanic activity and rising atmospheric CO₂ levels?

John B

0

Reply



The Ethical Skeptic

Author

🔗 Reply to John Balsevich ④ 4 months ago

That is a natural thought derivative! That is the premise of the first hypothesis in ECDO Theory, link below:

<https://theethicalsskeptic.com/2020/02/16/the-climate-change-alternative-we-ignore-to-our-peril/>

This upset a lot of people when it was published. But 2023 silenced the lot of 'em. All of sudden it was the only hypothesis standing.

TES

0

Reply



John Balsevich

🔗 Reply to John Balsevich ④ 4 months ago

Thanks for the link. I have a lot more reading to catch up on, haha. As I am retired I have the time. Looking forward to enjoying a good cup of coffee or a rye whiskey while going through your articles. Incidentally, I haven't recently looked at what has been going on in the world of recreating past atmospheric compositions from ice cores, but my suspicion is that CO₂ is significantly underestimated. The elephant in the room I believe is the sieving of the gases through microporous snow pack and even selectively

crossing thin ice, the ice being a... [Read more »](#)

1 0 1 [Reply](#)



Lago

① 4 months ago

Dear TES,

Here I am on a Saturday still engrossed in reviewing your hypothesis!

Regarding the coin found in Mexico depicted in the left panel of Image 2, I watched the Linda Howe documentary that you reference and see it around the 13:40 mark. Do you recall the source of the reverse of the coin shown in Image 4?

1 0 1 [Reply](#)



The Ethical Skeptic

Author

② Reply to Lago ① 4 months ago

Lago,

I don't – and will have to look it up. Good point. I had assumed that I extracted it from the LMH show.

TES

1 0 1 [Reply](#)



Lago

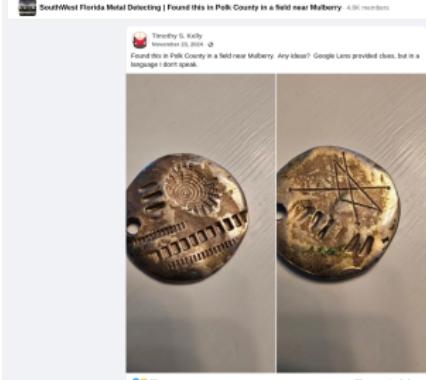
② Reply to The Ethical Skeptic ① 1 month ago

TES,

I did a reverse image search of the coin and came across a Facebook post by a guy from southwest Florida who says he found what appears to be another copy of the coin using a metal detector. Very interesting! There are apparent differences in some of the wear and discoloration between the two copies of the coins.

I'd be curious to know what you think of this.





0 Reply



The Ethical Skeptic Author

Reply to Lago 1 month ago

Lago,

That is absolutely fascinating. Obviously it came from the same exact stamp, but there are minor differences in the wear between the two coins. Hard to derive an inference other than this program appeared to be world wide, or spanned many geographic areas at the very least.

Thank you for this image!

TES

0 Reply



Lago

5 months ago

Dear Ethical Skeptic, I am reading the ECDO essays for maybe the third time, understanding them more deeply with each pass. Thanks once again for this profound work. I'll never forget the sick feeling in my stomach the first time I read your great reveal that the shaft containing the northern sky chart today is today located within a south-pointing shaft. (You mention that "tidbit" in the very end of the caption for Exhibit M but I glossed over it in my initial read, which was serendipitous for dramatic tension!) Today I was reviewing the top two photos in Exhibit... [Read more »](#)



Like 0 Dislike Reply



The Ethical Skeptic Author

Reply to Lago 5 months ago

Thanks for the kind feedback, Lago With regard to the northern sky depiction, once you anchor the spots for Ursa Minor, and the head of Draco – then all the other star positions fall into line pretty well, starting with Lacerta and the Big Dipper, then Cephus and Cassiopeia. Without those two anchor points, and their relative placement, it would indeed be impossible because of the uncertainty you outline. If real scientists had conducted the work, they would have taken a high res photo of that stone, and then taken samples from the walls of the shaft. But instead we... [Read more »](#)

Like 0 Dislike Reply



Lago

Reply to The Ethical Skeptic 5 months ago

I agree. Prior to the last five years, I would have considered the failure of the pyramid's custodians to allow high-resolution imaging of the star chart to be laziness or merely a lack of curiosity. Now I know better!

Like 0 Dislike Reply



Filippo

6 months ago

Hi TES. How could sea levels rise enough to cause erosion in areas like the Giza Pyramids, which are located far to the north during State 2 Exhibit J3? Shouldn't ocean water tend to shift toward the new equator due to Earth's rotation, making it more likely for water to accumulate closer to the equator rather than farther north? This seems contradictory to me.

Like 0 Dislike Reply



**The Ethical Skeptic**

Author

[Reply to Filippo](#) [6 months ago](#)

You raise a good point Filippo. It all depends upon the length of time it takes the viscoplastic deformation of the Earth's Mantle to occur. 1. We don't really know the dynamics of such an Earth rotation, enough to model what would truly happen. We cannot use the "wet bowling ball paradigm" as our basis of model understanding and constraint. The Earth does not work that way. 2. It is the mantle which deforms into an oblate spheroid, not necessarily the oceans. 3. The water still placed the high water mark on Khafre – any theory we develop must recognize... [Read more »](#)

[Like 0](#) [Dislike](#) [Reply](#)**Svevlad**[Reply to The Ethical Skeptic](#) [6 months ago](#)

An elegant solution here would be melting polar ice due to the fact that both Antarctica and the Arctic would basically be in the tropical band. Even with all the albedo (and volcanism that results from this) would ensure it's probably lower as the ash settles), it would melt pretty fast. Especially if the geologic effects cause the ice caps to shatter and slough off into the sea. The only issue is that according to the current calculations, all the glaciers in the world contain only enough water to raise the sea by 70 meters – but that's just a... [Read more »](#)

[Like 0](#) [Dislike](#) [Reply](#)**Jeff**[6 months ago](#)

Hi TES, Very compelling and unsettling. A question for you: One counter claim I stumbled across was the claim that flash-frozen mammoth and other animal bodies in the Arctic are old, >45kya, and that the condition indicates that they could not have thawed in the intervening time. I'm sure you've thought about this, what is the response here?



Thank you!

Like 0 Dislike Reply



The Ethical Skeptic

Author

Reply to Jeff 6 months ago

Jeff, 1. These mammoths were “preserved from the end of the last Ice Age, with a significant extinction event thought to have occurred around 10,000 to 12,000 years ago, corresponding with the Younger Dryas cooling period.” – according to the literature I have read on the matter (National Geo, Guthrie, Lister, Martin & Klein, etc.). 2. Examine the location of North America in what I call “State 2” – it takes the position of Patagonia, which is known as a ‘frozen desert.’ So, State 2 for these mammoths was bitter cold. 3. The Earth in State 2 is not a... [Read more »](#)

Like 0 Dislike Reply



alienengine

6 months ago

See, this is why camels make sense. The Sahara and the Arctic are basically the same selective pressure.

Like 0 Dislike Reply



johnm33

6 months ago

Years ago I came across a book, ~~which may have been~~ called the Keys to the Temple, it had Silbury hill being constructed as a sighting platform to lay out a 2D great pyramid on the landscape to its east, at the ‘kings chamber’ position was a ‘Temple Farm’ Silbury is at 1.875W

Like 0 Dislike Reply



The Ethical Skeptic

Author

Reply to johnm33 6 months ago

Interesting john,



"Can it be that the people of the ancient times could 'feel' the circles, very much like many people nowadays can feel so called leylines?" was a quote I found at one site which deliberated the 51.5 degrees (104 degree rounded) pyramid geogon (<https://www.cropcirclesandmore.com/geometries/200601lsg.html>)

See my article: Amongst the Standing Stones <https://theethicalskptic.com/2023/06/16/amongst-the-standing-stones/>

TES

 0   Reply



Marc

⌚ 6 months ago

Hi TES, Khafre for atmospheric electrostatics measurement? I would like to share an observational logical question and offer a purpose for the Khafre pyramid: Logic If the Nubian Ostrich Egg shows the 3 Gizeh pyramids and thus depicting the function of Khufu is knowledge about ECDO, than logically at the time when Khafre (and Menkaure) where build they too should have a function for ECDO. They Khafre (and Menkaure) would NOT be cargo-cult pyramids without a function for ECDO. Khafre For Khafre having the highest tip and a simple shaft running down from the top to the chamber we... [Read more »](#)

 0   Reply



Marc

✉ Reply to Marc ⌚ 6 months ago

Oh, I missinterpreted the middle-line for a shaft. As no middle-shaft is documented I stand corrected on the purpose, if no embedded metal rod is found connecting the chamber to the tip. :-(

 0   Reply



Marc

✉ Reply to Marc ⌚ 6 months ago

And of course there is a (dislocated?) stone right in the center of the top:



<https://www.facebook.com/photo/?fbid=1652372258261983&set=pcb.1652372438261965>

Like 0 Dislike Reply



The Ethical Skeptic Author

Reply to Marc 6 months ago

If the Nubian Ostrich Egg shows the 3 Gizeh pyramids and thus depicting the function of Khufu is knowledge about ECDO, than logically at the time when Khafre (and Menkaure) where build they too should have a function for ECDO. They Khafre (and Menkaure) would NOT be cargo-cult pyramids without a function for ECDO.

This is true... It is the other eight prominent and contemporary pyramids which would be the 'cargo cult' far-short-in-skill pyramids.

TES

Like 0 Dislike Reply



Marc

6 months ago

How can I send you a private message, that does not show up here?

Last edited 6 months ago by Marc

Like 0 Dislike Reply



The Ethical Skeptic Author

Reply to Marc 6 months ago

Read. :-)

Like 0 Dislike Reply



Marc

6 months ago

Hi TES, Underground basin as "mercury switch" trigger? While the following ideas are NOT on the critical path for ECDO, let's assume



there are at least these functions of the pyramid you have proposed:

1. Work as a monitoring device for ECDO risk.
2. Work as a warning device like a fire detector in case of imminent ECMD with a short but significant warning time. Ideally giving hints or instructions what to do.
3. Encode the knowledge about ECDO for a future civilization, when the function has been destroyed either by the ECDO, scavengers, etc. I think that function is plausibly shown by... [Read more »](#)

 0   Reply



The Ethical Skeptic

Author

 [Reply to Marc](#)  6 months ago

Marc, All excellent ideas. The subterranean chamber would not be optimal with simply water. The oral legends of mercury could stick through the ages because of the notion's simplicity and portability, morphing into 'Khufu was buried on an island surrounded by mercury'. The high non-combustion heat suggests almost definitively (having concept-designed and operated power plants) that the energy generated there would indeed be used immediately and inside the pyramid. So, your construct here is not outlandish – as I suspect a culture which could manage (even crudely) this much kWh and amperage would find a way to formulate a storage... [Read more »](#)

 0   Reply



Marc

 [Reply to The Ethical Skeptic](#)  6 months ago

You would not need a dielectric for the capacitor. Use a https://en.m.wikipedia.org/wiki/Leyden_jar and you have plenty of time to charge. :-)

 0   Reply



Marc

 [Reply to Marc](#)  6 months ago

To elaborate further: I speculate, a standing wave pattern would be forming at a critical resonance of the mercury the lowe square

basin, filled to 50% of the resulting cube (or collapsing at a critical change of it). So an electric contact would be closed or opened (lost) thus triggering (or at least arming for a secondary trigger) the alarm. To generate a relevant standing wave size in mercury the energy required would be high, thus I am more on the standing wave would form in case of ECDO side. As mercury does have a different surface tension than... [Read more »](#)

 0   Reply



Marc

6 months ago

Hi TES,

Void in the Pyramid (like a lens or resonator?)

Also there seems to be a void (in the north-south direction?)

https://en.wikipedia.org/wiki/Great_Pyramid_of_Giza#The_Big_Void

[comment image](#)

[Details](#)

<https://pmc.ncbi.nlm.nih.gov/articles/PMC9981702/>

I wonder if that void could somehow act as a lens or resonator for any of the uses.

Best regards

Marc

 0   Reply





The Ethical Skeptic

Author

Reply to [Marc](#) 6 months ago

Given that both the King and Queen's North Air Shaft had to take a diversion around this void – it was an afterthought in the engineering, not anticipated when the Queen and King's chambers were constructed. I suspect it was a necessary component for energy generation or management of some kind. Most of the unanticipated aspects of the Khufu pyramid, pertain to the non-combustion heat which was generated. I suspect this void as well pertained to the 'afterthinking' process.

0 Reply



Marc

6 months ago

Hi TES, Khufu Subterranean Chamber, shaft altered Wikipedia states, that the shaft was altered: https://en.wikipedia.org/wiki/Great_Pyramid_of_Giza#Subterranean_Chamber (quote) The uppermost part may have ancient origins, about 2 m (6.6 ft) squared in width and 1.5 m (4.9 ft) in depth, diagonally aligned with the chamber. Caviglia and Salt enlarged it to the depth of about 3 m (9.8 ft). [165] In 1837 Vyse directed the shaft to be sunk to a depth of 50 ft (15 m), in hopes of discovering the chamber encompassed by water that Herodotus alluded to. It is slightly narrower in width at about 1.5 m (4.9 ft). No chamber was discovered after Perring and his workers had spent... [Read more »](#)

0 Reply



Ingrid

8 months ago

In February 2022, I joined a large group of people to meditate in the pyramid and the object was to "balance the nodes of the earth". I felt compelled to go because it seemed like I was doing something positive for the world in the midst of chaos. The person who coordinated this was Matias De Stefano. This was all super spiritual, but he talked about the pole aligning to magnetic north and even

Argentina. Anyhow I was struck by how the way he portrays earth behind him in many of his videos match your demo video!



0 Reply

Hikmet
① 8 months ago

Pole reversal. Part 1. Physics of the process

<https://www.tart-aria.info/sdvig-polyusov-chast-1-fizika-protsesssa/>

0 Reply



The Ethical Skeptic Author

Reply to Hikmet ① 8 months ago

The author missed the core sloughing mass change, LLVP asymmetry, geomagnetic priority and inertial moment priority physics of State 1 and State 2, which as I outline, are the physics. This article just talks about a flip, Dzhanibekov, and associated topics. It is not a geophysics hypothesis.

0 Reply



Hikmet

Reply to The Ethical Skeptic ① 8 months ago

<https://www.tart-aria.info/sdvig-polyusov-pozitsionirovaniye/>
<https://www.tart-aria.info/sdvig-poljusov-3/>
<https://www.tart-aria.info/sdvig-poljusov-4/>

Yes. As you said, it only talks about a reversal. I read this



article last year and now I read your article. Thank you very much and good luck.

Like 0 Dislike Reply



Lago

9 months ago

Ethical Skeptic,

Your essays are an astonishing multi-domain synthesis. When I saw that the Ecuadoran and Peruvian Andes are hypothesized survival areas, it immediately brought to mind the extremely harsh Covid policies in those two countries. Ecuador mandated the vaccine for everyone above the age of 5 (<https://www.bloomberg.com/news/articles/2021-12-23/ecuador-imposes-vaccine-mandate-amid-rising-hospitalization-rate>). Peru also had some of the harshest lockdown, mask, and vaccine policies in the world. I wonder if that's a coincidence?

Like 0 Dislike Reply



The Ethical Skeptic

Author

Reply to Lago 8 months ago

Ha! Interesting... and thanks for the kind words, Lago.

TES

Like 0 Dislike Reply



Lago

Reply to The Ethical Skeptic 8 months ago

Also I remember you mentioning somewhere that you may be working on a movie explaining the theory. Are you accepting donations to support the project?

Thanks again for these essays and for all of your Covid-related analysis too.

Like 0 Dislike Reply



**The Ethical Skeptic**

Author

Reply to Lago 8 months ago

No, if I take money, someone will make the claim that I am in this for money, or have my material taken down because someone will claim a copyright strike on it. As it is right now, YouTube, FaceBook, Google, and the other venues just outright censor my ideas. I like to keep things clear like that. I have been approached by a production company who has cited they can fund the entire cinematic project, and have done some of the most prominent work in the industry. We shall see how it goes. So I hear, 9 of 10 of... [Read more »](#)

0 Reply

**Lago**

Reply to The Ethical Skeptic 8 months ago

I understand your reasoning. I hope that the movie project comes to fruition!

0 Reply

**Mark**

Reply to The Ethical Skeptic 7 months ago



If we are at the Indigo point, then any and all efforts should be for passing this message on to the future, by whatever means. If this event comes to pass, and is a repeating feature of the planet, and if this is already known knowledge, then 99% of humanity will only wonder at the sun going the wrong way, and all that follows. The remainder will be the plain lucky, and those who planned. Those who planned also have a plan for anyone they find who survives, they will have their "utopia" and find it wanting, if they survive... [Read more »](#)

 Last edited 7 months ago by Mark

 0   Reply



BojackHorzman

⌚ 9 months ago

It's always so sad to see someone so intelligent who has literal blinders on. I followed you throughout the Covid shenanigans and have enjoyed almost everything you post TES, but as the Bible says in 1 Corinthians 1:26-29 "For consider your calling, brothers: not many of you were wise according to worldly standards, not many were powerful, not many were of noble birth. But God chose what is foolish in the world to shame the wise; God chose what is weak in the world to shame the strong; God chose what is low and despised in the world, even things... [Read more »](#)

 0   Reply



The Ethical Skeptic

Author

✉ Reply to BojackHorzman ⌚ 9 months ago



The Bible is clear and specific about the sequence of events – Yes, an olive tree grew to full leaf 43 days after the first mountain peak appeared above the waters. Sorry, but this is a lie. Such a bald-face lie to ancients who actually grew olive trees, that the author possibly planted this into the material as a hint that he was being forced to write a lie. Then the waters simply disappeared in a matter of months. No, I am not a moron – and will not buy this lie either. I'm sorry, the Bible is a theft... [Read more »](#)

1 0 Reply



BojackHorzman

Reply to [The Ethical Skeptic](#) 9 months ago

Nowhere does the Bible say an olive tree grew to full leaf, it simply says the dove returned with an olive leaf (no specific size of leaf given). I refer you to – <https://www.jstor.org/stable/42882604> The waters didn't disappear, they receded and if you were to actually read and evaluate my prior comment, you would see just how much water is below earth's surface (3x the volume of all the oceans we know combined). That is water that receded, which scientists were baffled to discover. But if you had a Biblical worldview, you wouldn't have been surprised, you would have thought... [Read more »](#)

1 0 Reply



The Ethical Skeptic

Author

Reply to [BojackHorzman](#) 9 months ago

Nowhere does the Bible say an olive tree grew to full leaf, it simply says the dove returned with an olive leaf (no specific size of leaf given). This is a distinction without a difference. You would see just how much water is below earth's surface 'Water' under the crust is stored in the form of hydroxyl (OH) groups within the mineral structure of rocks, particularly in the Earth's mantle. So you cannot appeal to this. That water is not available to form

a misrepresentation of geophysics to make a lie plausible—it is not. I... [Read more »](#)

1 0 1 Reply



BojackHorzman

[Reply to The Ethical Skeptic](#) 9 months ago

And to that I would just say that the water cycle of earth extends deep into the mantle, assuming that incredibly pressurized volumes of water cannot be part of earth's water cycle because it's "trapped" in OH ignores examples like this – <https://www.newscientist.com/article/mg23231014-700-deepest-water-found-1000km-down-a-third-of-way-toearths-core/> Job 38:30 The waters are hid as with a stone, and the face of the deep is frozen. You don't have to tolerate anything, it's your website my friend and I'm just a humble reader. Criticizing Noah's boatbuilding and appealing to growth rates of olive trees are microscopic objections in the grander picture of whether or not... [Read more »](#)

1 0 1 Reply



The Ethical Skeptic Author

[Reply to BojackHorzman](#) 9 months ago

I think even if you just did an exercise in playing your own devil's advocate and using Biblical geology/timelines on the work you are doing here, you might be surprised at how much explanatory power there is. You underestimate the journey I have taken. Read my articles, as I have done this in spades. Noah's Ark would not have survived the biblical tale. I tried every way from Sunday to reconcile the literal Bible tale, back in my earlier days. It just does not work. Sorry. I cannot accept that tale and respect the person I see in the mirror.... [Read more](#)

0 Reply



BojackHorzman

Reply to [The Ethical Skeptic](#) 9 months ago

And I'm coming from the opposite angle, where I tried every way from Sunday to reconcile the literal Bible with modern science and found that the Bible is right (and even descriptive and predictive) at nearly every turn where modern scientists are baffled/surprised/amazed by some new finding on an almost daily basis. Nothing wrong with amazement and appreciation for new findings, but there's something sad about the perpetual rewriting of long-held beliefs because the presuppositions were wrong to begin with. Ask a scientist 20 years ago they would tell you the earth is 1.8 billion years old, ask them a... [Read more »](#)

0 Reply



The Ethical Skeptic Author

Reply to [BojackHorzman](#) 9 months ago

You assert that Noah's Ark wouldn't have survived the Biblical tale but you're just engaging in the original fatal conceit – I know more than God or I know more than those bearded cave-dwelling morons who wrote down the books of the Bible. This is gaslighting. Saying that the Bible fable is incorrect is not claiming to know more than God. The fable is incorrect because I am qualified to say it is incorrect, as an engineer, one with good experience in ship design, a lifelong sailor and officer of the deck, and having been in several hurricanes and 8... [Read more »](#)

0 Reply





Hikmet

Reply to The Ethical Skeptic 8 months ago

And it is He who sends down rain from the sky, and We produce thereby the growth of all things. We produce from it greenery from which We produce grains arranged in layers. And from the palm trees – of its emerging fruit are clusters hanging low. And [We produce] gardens of grapevines and olives and pomegranates, similar yet varied. Look at [each of] its fruit when it yields and [at] its ripening. Indeed in that are signs for a people who believe.

Like 0 Dislike Reply


DeaneM

9 months ago

Regarding the date of the “vulture stone” at Göbekli Tepe. 16,800 plus 25,772 equals 42,572. That’s within the margin of error for the Laschamp geomagnetic field excursion, which you discussed in footnote 27. You pointed out many problems with thermoremanent magnetization of volcanic material. Well, Steve Lund at USC analyzed ocean sediment cores from depths 3.5km to 4.8km on the Blake Ridge and Bahama Outer Ridge. They indicate it was not a full magnetic pole reversal, but two pole excursions in clockwise loops (inclination and declination changes were out of phase, thus the “loop”). They included the north pole moving to southern Africa for at... [Read more »](#)

Like 0 Dislike Reply


The Ethical Skeptic

Author

Reply to DeaneM 9 months ago

Excellent,

I added Figure 11 from the Lund study into the material. Given that geomagnetic poles wander and almost always have a variance, this is actually pretty solid data! Thanks Deane!

TES

Like 0 Dislike Reply


**DeaneM** Reply to [The Ethical Skeptic](#) 9 months ago

TES, One clarification—although core CH89-9P data does extend back just beyond the Iceland Basin Excursion, I think in Figure 11 from the Lund study, both cores are showing the Laschamp Excursion. Unless I'm missing something? The Iceland Basin Excursion appears to have been counterclockwise, and the Laschamp clockwise. Figure 8 from the study by Laj et al (link below) is not as clean as the Lund graphic, but does show a plethora of virtual geomagnetic pole ("VGP") path estimates for both excursions, including both JPC-14 and CH89-9P for the Laschamp. Considering signal smoothing for short excursions and the challenge of correcting... [Read more »](#)

0 Reply

**The Ethical Skeptic**

Author

 Reply to [DeaneM](#) 9 months ago

Even better, Deane. Fantastic information. I have not had time to research this further. You are very helpful! I changed the text to show how important the Laj et al study indeed may be!

TES

0 Reply

**Bolt Upright** Reply to [The Ethical Skeptic](#) 10 days ago

An article just appeared in Sky and Telescope reporting on the geomagnetic changes during the Laschamps excursion based on a 2021 paper at <https://skyandtelescope.org/astronomy-news/41000-years-ago-auroras-appeared-across-the-globe/>.

The story says the magnetic field tilted 76° to Northern Africa and NE of Africa

agreeing with your calculations.

I wonder if the dipole antenna you posit in Khufu could use the induced current of the increased solar flux of instead of infrasound to flag an immanent excursion.

 0   Reply



The Ethical Skeptic

Author

Reply to Bolt Upright  10 days ago

Bolt,

Yes, saw that in the Laschamps excursion data.

Interesting point on the solar flux for the Queen's chamber dipole. (Infrasound was detected in the Subterranean Chamber).

TES

 0   Reply



Mike Brizic

 9 months ago

Could you point me to the discussion related to the explanation of how the pyramids were able to be built with the message they send if mankind could not survive the ECDO? How was the knowledge available? The pyramids had to be built when there was no flood but there had to be knowledge that there was a flood, and that it would occur exactly the same again. How was all this known, and further, why would they be built to send the message (partially rhetorical)?

 0   Reply



The Ethical Skeptic

Author

Reply to Mike Brizic  9 months ago

Mankind survived the ECDO cycle. It is not a complete extinction event – more like a 90% event. The mechanics of the State1-State2 hypothesis show why the Earth exhibits just about the same effect each time this happens. It is part of the Earth's natural cycle.



The water remains high (or altered by region) long enough for man to measure its levels and keep a record. Unfortunately, someone also did not want mankind to know about this cycle and has kept a habit of destroying all such records – and the builders of the pyramid knew that this someone would... [Read more »](#)

1 0 1 Reply



james

Reply to [The Ethical Skeptic](#) 5 months ago

Dont you think the archons have the capability of destroying some pyramids though? Or do you think there may have been other “entities” that “battled” with them to protect certain things?

1 0 1 Reply



[The Ethical Skeptic](#)

Author

Reply to [james](#) 5 months ago

They did destroy one Khufu-sized pyramid. Not sure why they did not destroy Khufu and Khafre as well **shrug** It may well be that they ‘destroyed enough’ and then spread myriad false stories as to the Pyramids’ construction and purpose – a kind of epistemological destruction. Unfortunately, either they were not allowed to go further, and someone wanted this discovered when the timing was right, and not before – or our rulers are just not that smart to begin with, and left a lot of clues they missed in their sweep of the structures. Had I been on their team,... [Read more »](#)

1 0 1 Reply



Jim

10 months ago

Has anyone performed a “diff” of the most recent version? This material is dense with info and having read previous versions I would love to quickly read the changes, preferably inline.

Like 0 Dislike Reply



John

10 months ago

Would you be kind enough to elaborate why you believe the flip will be 104 degrees? I couldn't really understand why this particular number from this article.

Like 0 Dislike Reply



The Ethical Skeptic

Author

Reply to John 10 months ago

It is in the article, but relates to the hypothesis that the Khufu pyramid was both a tracking device as well as message to future generations.

Like 0 Dislike Reply



John

Reply to The Ethical Skeptic 10 months ago

I understand now, thank you.

I would assume that due to the constant changes undergoing in the earth, and the fact that the three distinct moments of inertia of earth are not vastly different like in a tennis racket, but rather just very slightly so, this time it could rotate in a completely different way.

Is this reasonable?

Like 0 Dislike Reply



The Ethical Skeptic

Author

Reply to John 10 months ago

It is possible, but right now I think that the moment differential is large enough, and the structures stable enough, that the same sort of scenario repeats for the most recent term of say 500,000 years or so. Our



return to the discipline of the precession of the equinoxes is pretty striking in that regard.

Like 0 Dislike Reply



John

Reply to The Ethical Skeptic 10 months ago

I am looking at the Alps, and see vast “rivers” formed, some 2km wide. Given that these are the Alps, it seems reasonable to assume that they were indeed caused over millions of years by the continuously melting ice. Looking at Saudi Arabia, at the receding shorelines that you mentioned, I also see many “rivers”, these up to 200m wide. I understand that the way we can differentiate the causes of their formation is to look at the width, depth, and amount of meandering. To my untrained eye this is consistent with your theory. In Africa we have the Emi... [Read more »](#)

Last edited 10 months ago by John

Like 0 Dislike Reply



The Ethical Skeptic Author

Reply to John 10 months ago

Zubair Group – recently erupted if I recall.

The Emi Koussi volcano eruption and inundation marks sound interesting. I will look in to that, thanks!

TES

Like 0 Dislike Reply



Zookie

10 months ago

TES Phenomenal work, and the most convincing interpretation of what is in front of us. Always trust what you see, not  You

mention the SAC-LLVP, and would wonder if you've had a look at the African landscape from Botswana, Namibia, Angola and Zambia? There are what appear to be marks of a rapidly receding shoreline of a great inland lake or sea, and very recently since they're sand dunes which haven't been eroded yet. Fishing villages remain in the middle of Botswana pans (Kubu Island), with no fishing possible even when there is water. This may show... [Read more »](#)

1 0 Reply



The Ethical Skeptic

Author

Reply to Zookie 10 months ago

Thanks Zookie! Will look...

1 0 Reply



Zookie

Reply to The Ethical Skeptic 9 months ago

TES Did you see the Venus cloud anomaly? I saw it on Ben Davidson's YT channel, episode below: Yellowstone Event, Venus Anomaly, Solar Update | S0 News July.24.2024 (youtube.com) Massive wall of cloud racing across the planet. All of a sudden, and nobody has a clue why or where it came from. Look at the shape of it – doesn't appear to be from an explosion or impact which would be radiating outwards. That would give the planetary observers an easy explanation. I would hypothesize that, if the crust underneath had suddenly rotated, it might cause such an anomaly to... [Read more »](#)

1 0 Reply



The Ethical Skeptic

Author

Reply to Zookie 9 months ago

Zookie, I think you raise a sound point. It is possible that some or even most of our continental drift occurs quickly as a facet of ECDO events. The gradualism approach is the result of a flawed assumption now taken as proven, when it is

his prognostications were indeed astounding. But he had no actual hypothesis (theory of cause and systemic expression from that cause). I can cite pretty much anything as an outcome (and just get lucky to boot), but if I don't explain why it happens and give compelling evidence as to proof of... [Read more »](#)

1 0 1 [Reply](#)



Zookie

Reply to [The Ethical Skeptic](#) 8 months ago

Hi TES You've really sent me down a rabbit hole! I've been looking around and collating my thoughts on the competing theories of things. As far as Chan Thomas goes, you are right. He doesn't posit a hypothesis and then test as you have, and yours is the first and only one I've seen on this. What he does prompt though, is noticing things. His investigations into the freezing of a mammoth are of great relevance to your hypothesis and proving it. Randall Carlson cannot explain it, Ben Davidson cannot unless the Observers recognize that it is more than a... [Read more »](#)

1 0 1 [Reply](#)



The Ethical Skeptic

Author

Reply to [Zookie](#) 8 months ago

Zookie, Indeed the Betelgeuse thought is interesting. Or any number of cyclical candidates nearby. But I have considered the possibility that the Moon was inserted into Earth's orbit, early in Earth's history. All that would be required is the right cascade of complex celestial mechanics inside the Oort Cloud, with a series of the right sized bodies directing each other gravitationally. The Moon then deposited all its ephemeral, low period elements/compounds (oxygen, carbon, nitrogen, water) and their isotopic ratios onto the surface of the Earth over time. These would have sputtered off the Moon and been bound to our



binary... [Read more »](#)

Like 0 [Reply](#)



Zookie

[Reply to The Ethical Skeptic](#) 7 months ago

Hi TES Thanks for the link, an intriguing article, thank you. Using very amateur sleuthing, Heliopolis looks like it would be in the location of Sirius relative to Orion's belt. Teotihuacan and Xian are also laid out on Orion's Belt, so the ancients may have had more than one monitoring station and warning to subsequent civilizations. An interesting thought occurred to me, and one which I have begun to scratch at – we are told that the sphinx is a lion looking at Leo. Plausible, very plausible, BUT: "The Egyptian word for "Anubis" is "Anpu" or "Inpu". In ancient Egypt, the word... [Read more »](#)

Like 0 [Reply](#)



Harvey

[Reply to The Ethical Skeptic](#) 7 months ago

If sentient life did come here, they wouldn't be deterred. Likely every planet has enough internal imbalance to behave in somewhat the same way.

Like 0 [Reply](#)



The Ethical Skeptic

Author

[Reply to Harvey](#) 7 months ago

I suspect there is a small minority of super-stable planets, of very high value – yes. Thereunder, a larger quantity of semi-stable planets used as vacation spots, gardens, research, and genetic farms. After that, more than likely a LOT of

out there.

Like 0 Dislike Reply



Zookie

Reply to The Ethical Skeptic 7 months ago

So that in turn raises the question whether super planets like Jupiter with its 14 moons and the interacting gravitational fields might actually stabilize a planetary moon? I have no idea and don't have the skills to work it out. But assuming it did, then the intelligent life in our solar system would live on Europa etc and use us as a farm. It would provide a logical explanation for why a measuring device has been built (Khufu) to measure axis tilt and perhaps drive a predictability platform. If the moon is put there to mitigate the oscillation of the... [Read more »](#)

Last edited 7 months ago by Zookie

Like 0 Dislike Reply



The Ethical Skeptic

Author

Reply to Zookie 7 months ago

Great question, Zookie, Obviously I don't hold the set of qualms to answer that, and I suppose that we don't have adequate information to support a consensus on the matter either. However, the differential nature between the core of the Earth and its outer rotational body provides some aspect of life-nurturing energy on this planet. It is no coincidence that the Cambrian Explosion occurred very shortly after the Earth's core solidified. Thus, the planets in the I. super-stable and II. semi-stable life-sustaining profile would need to have a solid HCP NiFe core which acts as a dynamo relative to an... [Read more »](#)

Like 0 Dislike Reply



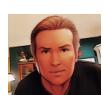


Zookie

Reply to The Ethical Skeptic 6 months ago

Hi TES With the amount of effort and cost it took to build the Great Pyramid, the other pyramids were also built. The other two on Giza, and the complexes at Xian and Teotihuacan. All are laid out pretty much on Orion's Belt. The builders did not do this by chance, or because they thought it could look nice. Not when you are building such massive and costly structures. Everything on the plateau must be relevant and purpose. My sense is that it is not just to measure the spin and to warn, but also to tell us the all-important... [Read more »](#)

0 Reply



The Ethical Skeptic

Author

Reply to Zookie 6 months ago

Zook,

Yes, the mantle is viscoplasitic and takes time to reform into its oblate spheroid shape after a shift from either State 1 to State 2 or back. That is why we see the ancient receding shorelines in the Arabian desert back into the Persian Gulf.

Thanks for the Orion point and the kind words!

TES

0 Reply



Zookie

Reply to The Ethical Skeptic 2 months ago

Hi TES

A thought occurred to me after reading your interpretation of Pillar 43, which makes perfect sense

by the way.

What if the Cygnus is the Giza overlay and not Orion?
The pyramids seem to match the stars there and also
some of the other structures' positions seem to line
up.

Perhaps Pillar 43 is not unrelated to Giza?

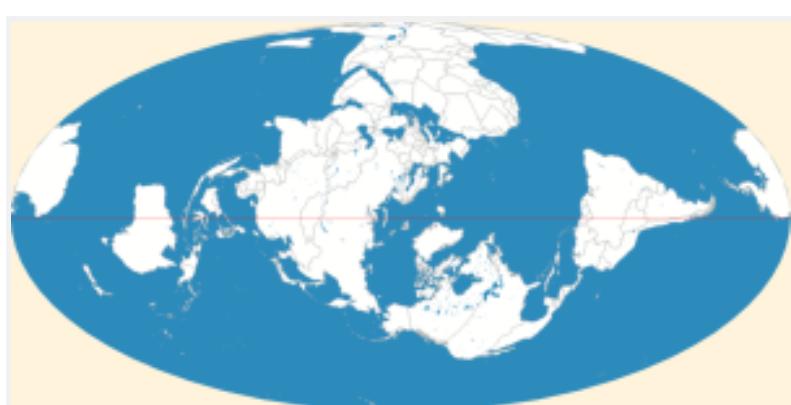
1 like 0 dislike [Reply](#)



Xeon

① 10 months ago

Greetings, some days ago I tried making a map of how the world would appear after the “flipping” happens (see pic attached). How would anyone be able to survive the ocean displacement? The only thing I can suggest is taking refuge in mountain areas above some hundred meters (this site might help finding the best place: <https://www.floodmap.net/?ct=IT>)... or in a bunker (maybe that was the purpose of the Derinkuyu underground city in Turkey?) I wonder, would someone be able to make an accurate prediction of the new Koppen climate areas of the world? For example, Antarctica and Greenland will obviously... [Read more »](#)



1 like 0 dislike [Reply](#)





John

Reply to Xeon 8 months ago

This is a nice map! I am part of a group which is doing analysis such as this. If you would like to join let me know.

0 Reply



Xeon

Reply to John 8 months ago

Hi! I would be pleased, but unfortunately I know very little about climatology so I wouldn't be able to provide useful input aside from obvious stuff like "Africa will become like Antarctica" and vice-versa; also, I'm still not sure whether the depicted state is supposed to become our "new normal" for the next millennia, or just be a temporary condition that will revert back to the original after just some decades... maybe TES can give us some clarification about this?

0 Reply



NCU

10 months ago

Do you consciously not mention what mystics like Madame Blavatsky, Rudolf Steiner, Gurdjieff, etc. have said? I am just wondering.

<https://rsarchive.org/Lectures/GA180/English/AM1929/19171229p01.html>

I am sure with your great intellect you can scientifically point out the truth or inadequacy of the mystics' explanations.

very best

0 Reply



The Ethical Skeptic

Author

Reply to NCU 10 months ago

From Wind Whispers: Jumping off a cliff while holding your arms out does not mean that you have invented

Praespeculacy (from the Latin ‘prae-‘ meaning ‘before or in front of’ and ‘-speculum’ meaning ‘mirror’) – refers to a type of prophecy-like pronouncement about future events. It is characterized by a deceptive framing that suggests divine or supernatural origin, when in reality it is merely a re-framing of current events using different or spiritually-tinged language. Distinct from forecasting, which is based on making projections from current data and trends, praespeculacy employs a method of deception that engages the audience... [Read more »](#)

 0   Reply



Mike

⌚ 10 months ago

TES, if there is a recurring cataclysm documented with physical evidence, ancient structures, myths and, possibly, ancient documents; is it logical to conclude that the leadership of the earth (whatever they call themselves) know about it and may even have an idea on the timing?

 0   Reply



The Ethical Skeptic

Author

✉ Reply to [Mike](#) ⌚ 10 months ago

Mike, I suspect they do have an idea on the timing, yes. The concerted effort to block any and all knowledge of this event, is telling. It is not ‘governments’, as those who are elected or appointed just simply have not had time to learn everything they need to know from the overlords. Plus, governments are appointed to manage welfare and laws for the workers. They are not there to manage the affairs of the Archons on Earth. The key here is that most of those who operate inside a demonic hierarchy are unaware that they do so. They don’t... [Read more »](#)

 0   Reply



Mike

✉ Reply to [The Ethical Skeptic](#) ⌚ 10 months ago



So, I'd guess those competing plans might be what's driving all the unrest we're seeing across the world; competing factions trying to set the stage for the event and aftermath. Could the rush for mass migration be an attempt to setup one plan, or, more likely, to block a particular plan? It appears one faction wants to greatly reduce the population before this event occurs.

1 0 1 Reply



The Ethical Skeptic

Author

Reply to Mike 10 months ago

Mike,

I suspect that there are certain lineages they are enormously threatened by, yes. And they have been attempting to wipe them off the face of the Earth for some time now, by war, murder, pathogen, poisoning, catastrophe, lowered birth rate – all part of the unforgivable set of sins, a line they crossed long ago.

1 0 1 Reply



DanMcTiernan

Reply to The Ethical Skeptic 10 months ago

TES, this comment of yours makes me want to digress to a couple of your posts on original sin and recent reminders thereof by officialdom. And of events near ancient stones in forests and, my guess would be, pheomelanin and guanine-heavy regions! I hope you someday expand on these articles too.

1 0 1 Reply



fozy

Reply to Mike 9 months ago

Perhaps they're preparing society for what's to come without yet revealing the ev

that would result. If this is true, that would answer at least some questions. Why do they want us eating bugs? Crickets and other insects are animal protein that can be raised without sunlight and without a planet surface free of radiation. Why block out sunlight by spraying the atmosphere? Is it to mitigate radiation effects from a weak or non-existent magnetic field? Or to force adaptation to what they foresee as a colder and darker world? When they talk about the planet not... [Read more »](#)

 0   Reply



Minute

⌚ 10 months ago

I really enjoy the wisdom contained in these articles, but the language is as dense as Jordan Peterson's Maps of Meaning – Jordan is very proud, but everyone else complains that it's unreadable. I have to use ChatGPT to simplify the language in order to assimilate the knowledge. Even then, from just the first sentence I get: "There is no widely recognized concept in Earth sciences known as the "Indigo Point". It could be a misinterpretation or a metaphorical term, but it is not a standard term in the scientific literature.". It takes me days to go through an article... [Read more »](#)

 0   Reply



The Ethical Skeptic

Author

 Reply to [Minute](#) ⌚ 10 months ago

Perhaps your version of ChatGPT missed that an 'Indigo Point' is a principle I use in systems theory, not Earth sciences. The article even quotes: "Points Indigo and Tau are inflection and tipping points that I often utilize when analyzing strategies, campaigns, problems, or deceptions. The Indigo Point is a critical juncture where plans are quietly set in motion, potentially irrevocably, steering towards a predetermined Tau strike point." That is an essential, as well as clear and simple, statement that your ChatGPT missed. There are over 100 details in this theory, just like that, which are critical in order to... [Read more »](#)



0 Reply



Minute

Reply to The Ethical Skeptic 10 months ago

Dear TES,

Thank you for your reply.

You have showed me how uneducated I am. Even with my background in mathematics, I didn't come across Simpson's Paradox before you mentioned it. I never even knew there exists a discipline called "systems theory". You clearly have a good understanding of statistics, geology, oceanography, seafaring and physics. Would you be so kind as to recommend any books that have helped you reach your level of understanding? This would help not only me, but also my kids, for whom I'm currently in the process of developing and education programme.

0 Reply



The Ethical Skeptic

Author

Reply to Minute 10 months ago

Minute, great question...

My fave books in this regard are (texts from undergrad and grad school – except "Piloting" was the Navy and Annapolis Sailing School):

Kip Thorne's, "Black Holes & Time Warps",
Madsen's, "Statistical Concepts with Applications to Business and Economics"
Ohring's, "Materials Science of Thin Films"
Jones, "Principles and Prevention of Erosion"
Maloney, "Chapman's Piloting"
Thurner, "Introduction to the Theory of Complex Systems"

and of course

Whitman, Poe, and Emerson... which ponder the mystery of "why"

:)



TES

 0   Reply

Akcita

 Reply to The Ethical Skeptic  9 months ago

I still have Sailing, Piloting, abd Celestial Navigation. I have feeling I need to look for a second-hand sextant...but I have feeling the Star Charts will need fixing...

 Last edited 9 months ago by Akcita 0   Reply

Harvey

 Reply to Minute  10 months ago

"You clearly have a good understanding of statistics, geology, oceanography, seafaring and physics."

My girlfriend suggests TES must be a group of people. Please take that as a compliment.

 0   Reply

**adamkadmon**

⌚ 10 months ago

Fascinating insights! I'll take it you're familiar with Chris Dunn's hypothesis. The air shafts are 21cm in diameter which corresponds with the hydrogen line. The vitrification of the interior of the kings chamber and potential for high energy exitement of this gas pose some other questions. The grand gallery also adding to the mix. I always wondered if this structure was somehow part of a damping/feedback mechanism to control the earths speed of rotaion and angle to the ecliptic. The alluded to date of contrsuction also aligns approx with the start of the holocene.

0

Reply

**The Ethical Skeptic**

Author



⌚ 10 months ago

Those were iron poles stuck up the shafts during a previous exploration. I wish they were the copper cables, but sadly they are not.

0

