



# THANK YOU

SHINE SEMINARS

## SUBTLE ENERGY TOOLS

For Creating  
Vibrant Spaces



# QUICK REMINDER

*for this session*



This Presentation  
Will Take Around  
90 Minutes



Hold Questions  
for the Finish





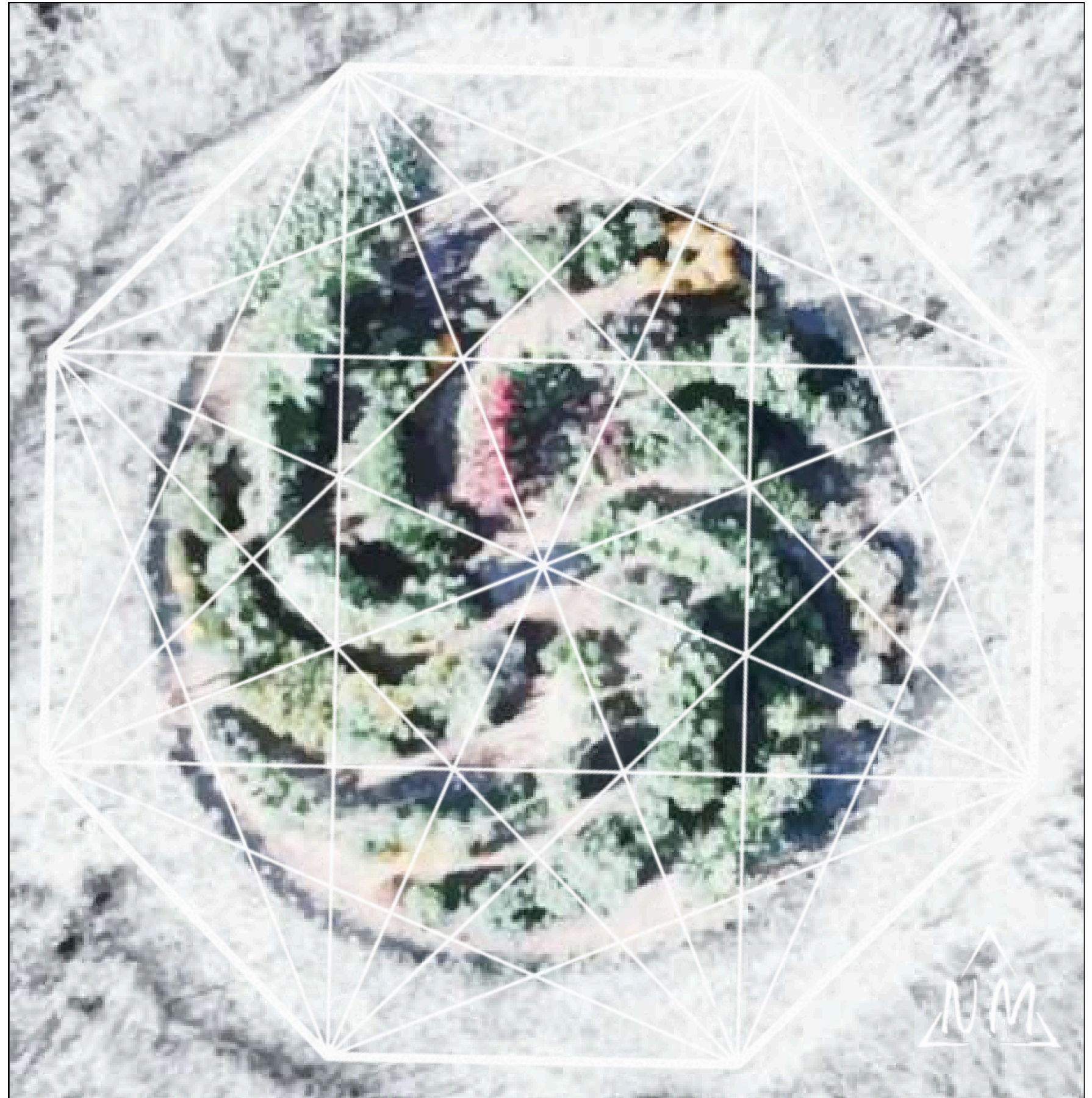


**RAY LEE**  
**BACON**

Garden Designer  
Educator

## **GEOMANTIC** **PERMACULTURE**

- **Passive Electroculture**
- **Dowsing/Radionics**
- **Nutritional Gardening**
- **Geobiology**

























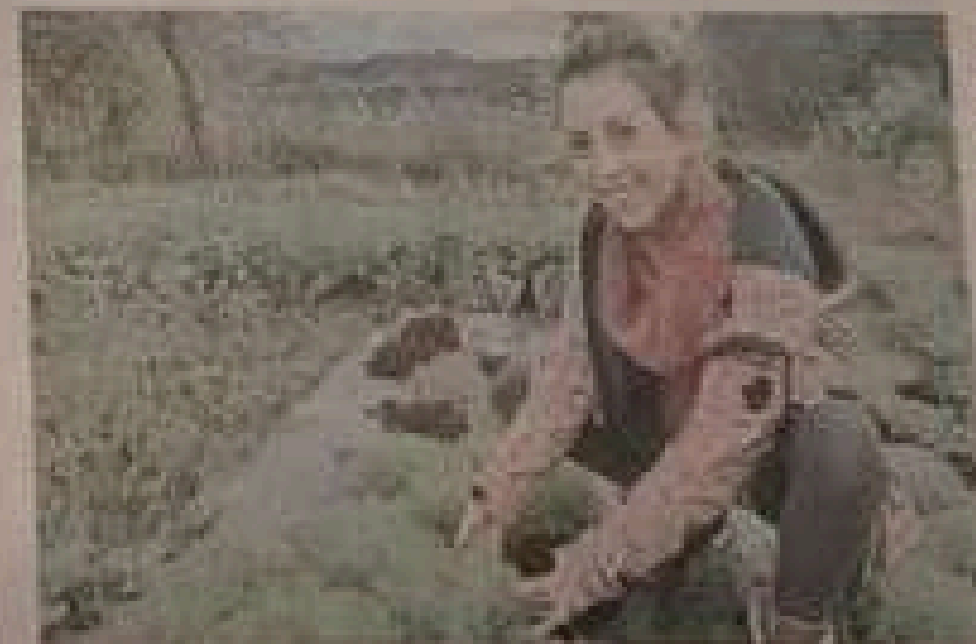
# che cambia colore e sapore

► Con la "micro insalata" Chiara Irene Achilli vince l'Oscar green Coldiretti per la creatività ► Una nuova coltura che sta facendo la felicità di tanti chef di tutto il mondo

**LE STORIE**  
Esiste un tipo di insalata che cambia colore e sapore a seconda delle stagioni. Viene coltivata nell'Orvietano e sta facendo la felicità degli chef che, per comprarla, non devono più rivolgersi all'estero. Con la sua "micro insalata" Chiara Irene Achilli, titolare - insieme al marito - dell'azienda "L'orto del tamburino", ha vinto l'Oscar green di Coldiretti per la creatività.

«Per l'Umbria, una terra caratterizzata dalla cultura dell'olio e del , il nostro prodotto è inusuale. Coltiviamo micro insalate e ortaggi in miniatura si-

zione olivica. A un certo punto abbiamo sentito la necessità di fare qualcosa di più del dare semplici consigli sulla nutrizione. Il nostro sogno era quello di creare un collegamento concreto tra teoria e pratica, tra questi suggerimenti e il cibo in senso



Chiara Achilli è proprietaria degli ortaggi e per il ristorante porta- ti ai ristoranti di Orvieto - racconta ancora Chiara Irene Achilli - che hanno subito apprezzato il prodotto. Gli chef già conoscevano questo tipo di insalata che acquistavano dai grandi distributori d'Orvieto. Avere questa verdura a due passi, conoscerne la produzione "pulita" e testarne le proprietà, per loro è stata una svolta. In breve l'attività ha trovato una fetta di mercato soprattutto in Umbria e nel Lazio. «Da un anno - aggiunge Chiara Irene Achilli - collaboriamo con una piattaforma ma che ci mette in contatto con i ristoranti romani». Il Covid ha fatto sentire pesantemente i suoi effetti anche su "L'orto del tamburino". «È stato difficile - rivela la titolare - abbiamo scoperto la nostra vulnerabilità. La nostra attività, legata alla ristorazione a sua volta legata al turismo, ha risentito della situazione globale ma già da quest'anno, con il ritorno nell'Orvietano dei turisti, soprattutto italiani, va meglio». A cinque anni dall'avvio dell'attività, a fare la differenza rispetto alle produzioni industriali che nel frattempo si sono sviluppate, è sempre "il modo casereccio" con cui Chiara Irene Achilli e suo marito portano avanti la loro produzione creativa.

Monica Di Lecce

**A CINQUE ANNI DALL'AVVIO DELL'ATTIVITÀ IL BILANCIO È POSITIVO:**

Sopra, Chiara Irene Achilli  
A sinistra la coltivazione

duzione. Infatti, l'altro passaggio chiave è stata la presentazione di queste verdure ai ristoranti. Anche qui, l'impresa ha mos-

LA PAR  
NON È  
«ORA COLLABORIAMO  
CON UNA PIATTAFORMA  
IN CONTATTO  
CON I RISTORANTI»

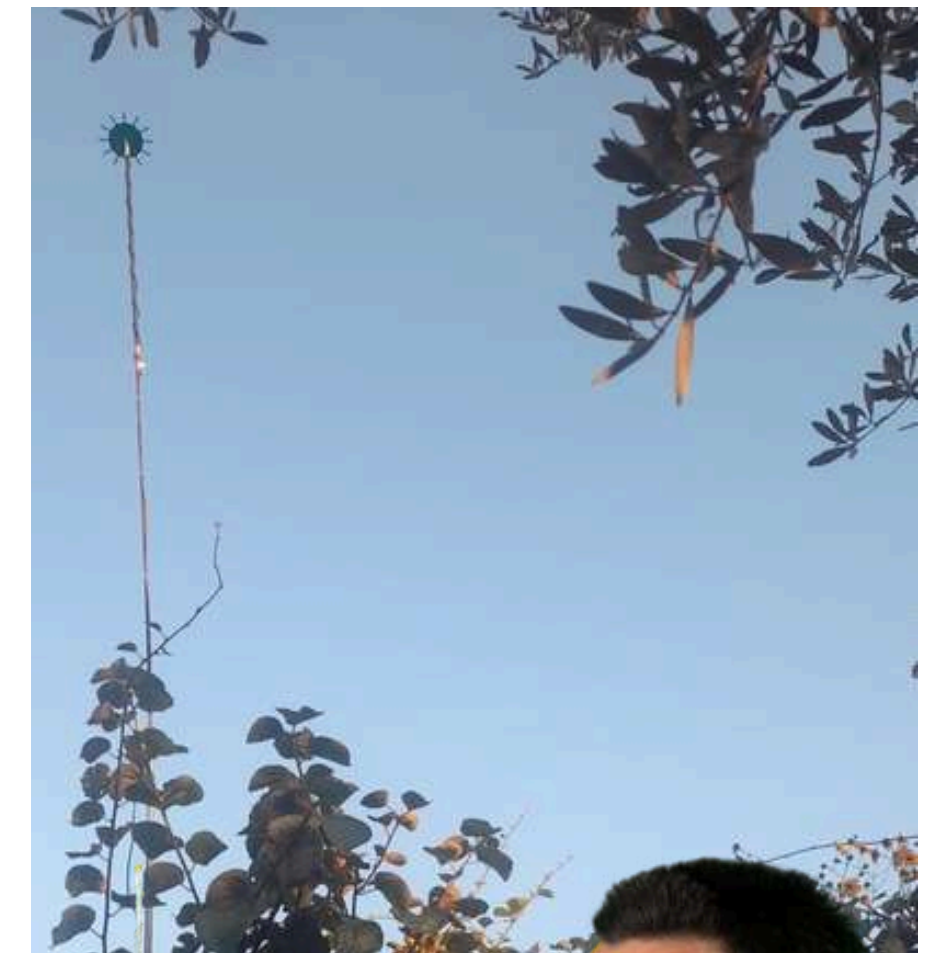






# ELECTROCULTURE

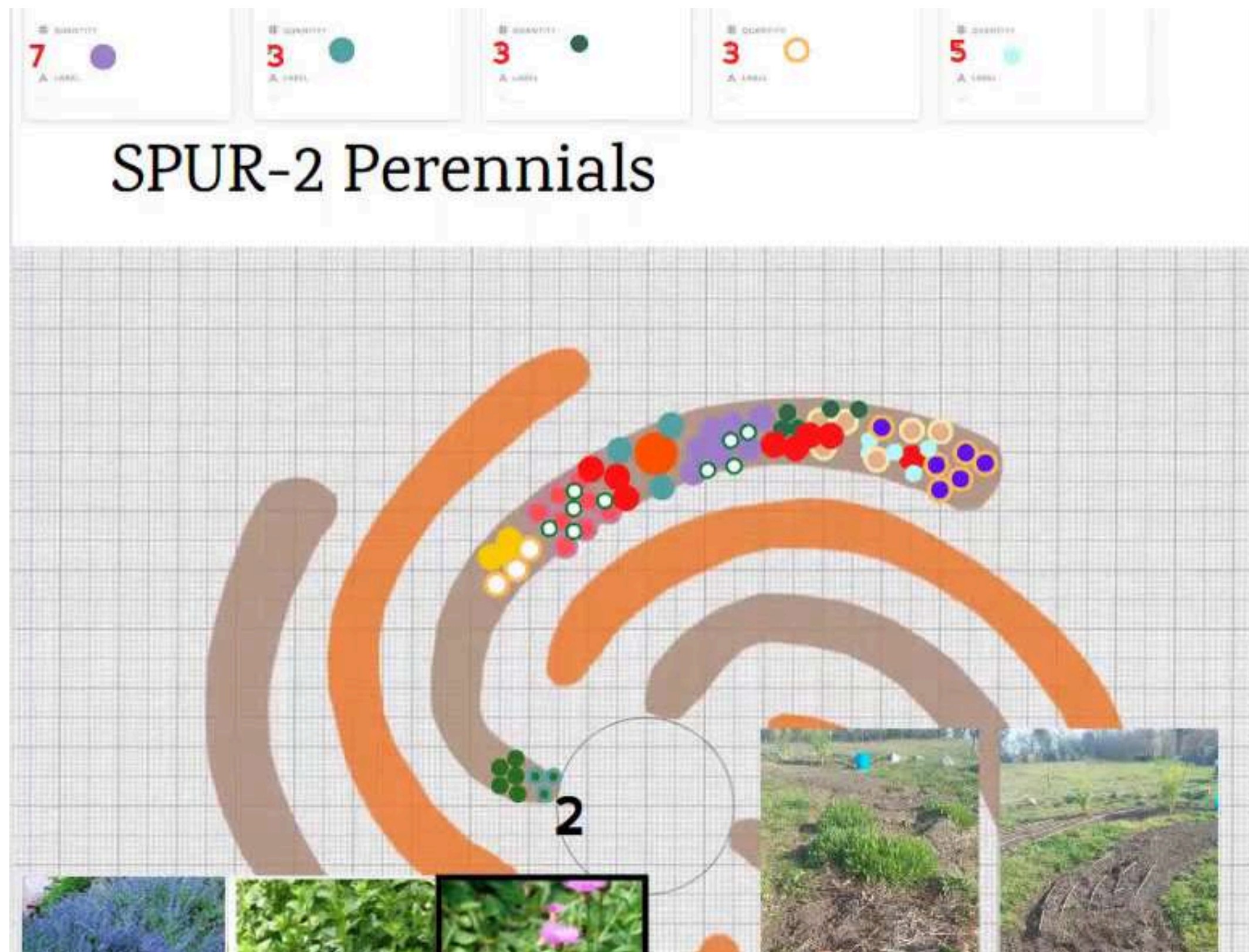
Uncover the magic!







Ray Lee Bacon









# GARDENS

ILLUSTRATED

Celebrating dreamy  
*SUMMER*  
*GARDENS*

HOW TO HAVE  
colour  
all season

*PLUS*  
Summer gardening reads  
Outdoor dining sets

*14*  
DESIRABLE  
DESIGNER  
GETAWAYS

*PLAYFUL PLANTING*  
a kindergarden that  
nurtures natural curiosity











**ELECTROCULTURE & The Silent Network (WATCH THIS!)**

38 views • 20 hours ago



**Electroculture Isn't Just Coils and Copper! (WHAT!? 🤖🤖🤖)**

1.6K views • 5 days ago



**Electroculture Isn't Magic – It's Electrobiology**

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**Why Electroculture Works: The Science Behind the Spark**

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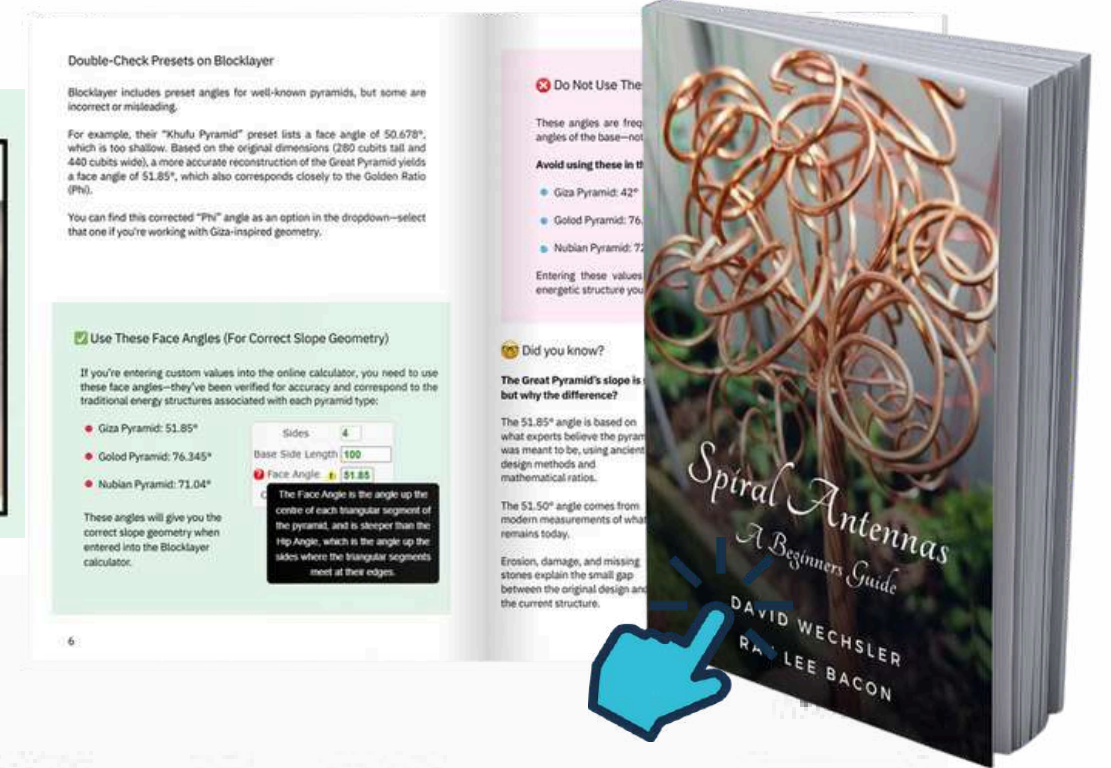
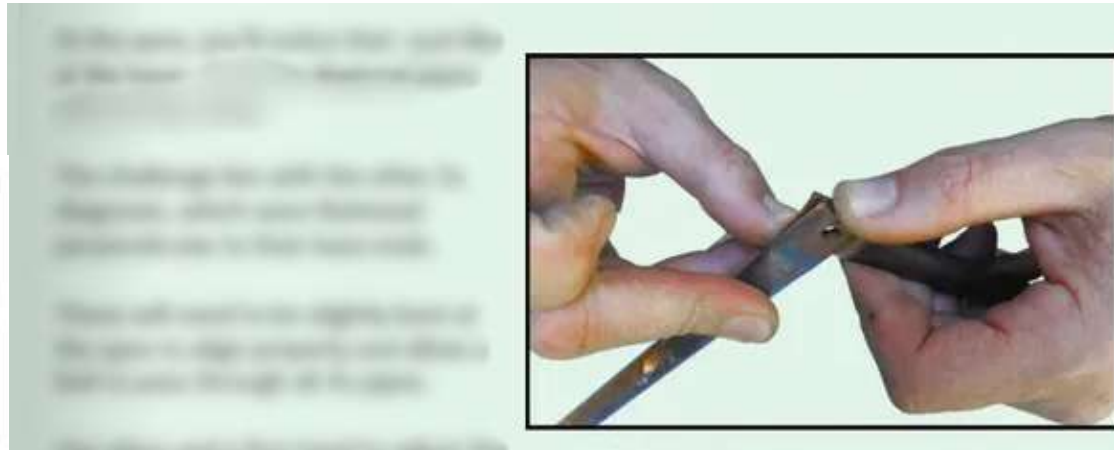


All subscribers  
**11,050**  
↑ 1,211 over last 30 days

Subscribers from app  
**649**  
↑ 55 over last 30 days

30 day views  
**70,246**  
↑ 15,855 versus prior 30 days

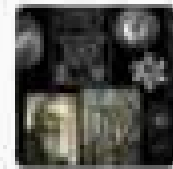
30 day open rate  
**29.32%**  
↓ -0.99% versus prior 30 days



## Most Popular

Steel Kills. Copper Brings Life

APR 9 • ELECTROCULTURE...



we are soooooo cooked 🍳

JUN 2 • ELECTROCULTURE...



This #1 Tree Hack Is Amazing!

APR 3 • ELECTROCULTURE...



How to Build an Electroculture Antenna...

MAY 14 • ELECTROCULTURE...



Listen Now



## Recent Episodes



Georges Lakhovsky & The Secret of Life

JUL 4 • ELECTROCULTURE GROWERS AND R...



Pierre Luigi Ighina & the Magnetic Atom

JUN 20 • ELECTROCULTURE...



Electroculture | The Forgotten Invention That Fed Post-war...

JUN 13 • ELECTROCULTURE...



Electroculture, Pyramids & Sacred Geometry | Electrocult...

JUN 4 • ELECTROCULTURE...







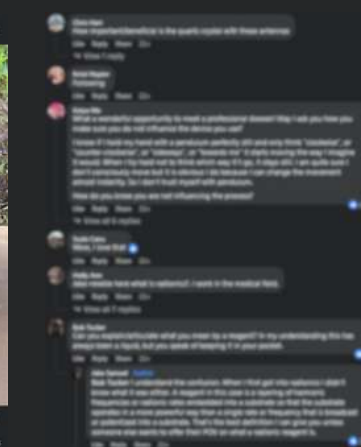
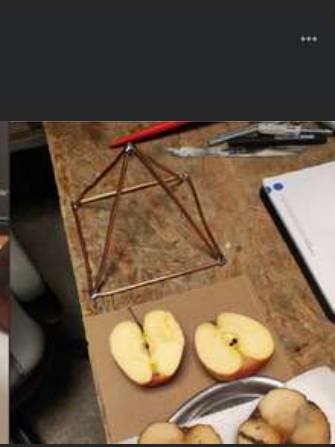
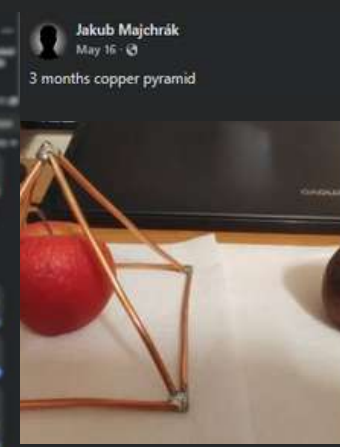
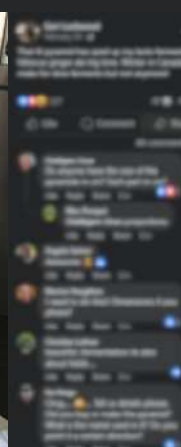
## ELECTROCULTURE Beginners to Advanced Community!

Public group · 300.5K members



+ Invite

Share













# ELECTROCULTURE Beginners to Advanced Community!

Public group · 300.0K members

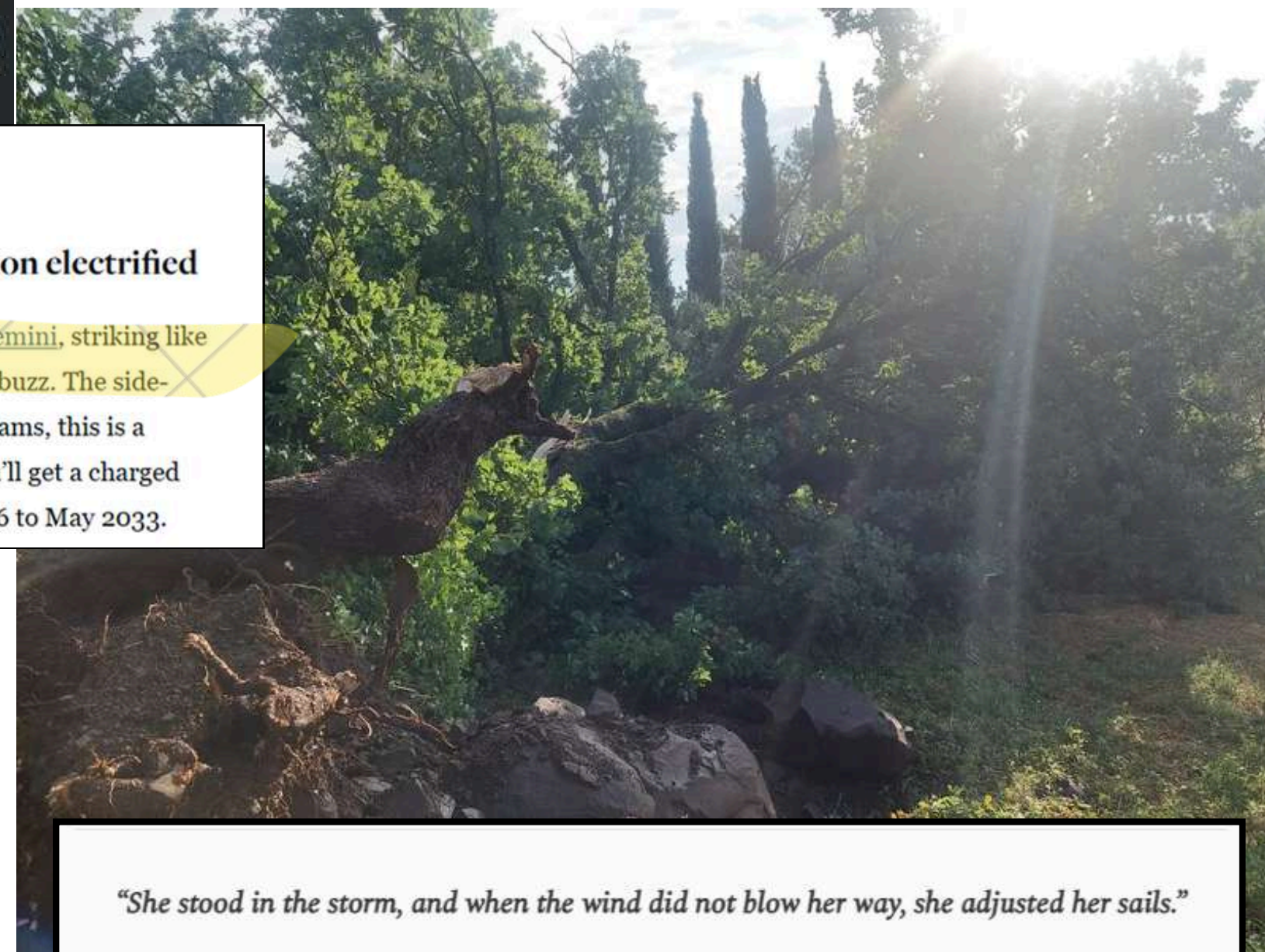


Electroculture Growers is now #8 Rising in Climate & Environment

## ARIES MONTHLY HOROSCOPE JULY 2025 - PAGE 4

### Uranus in Gemini preview begins July 7: Communication electrified

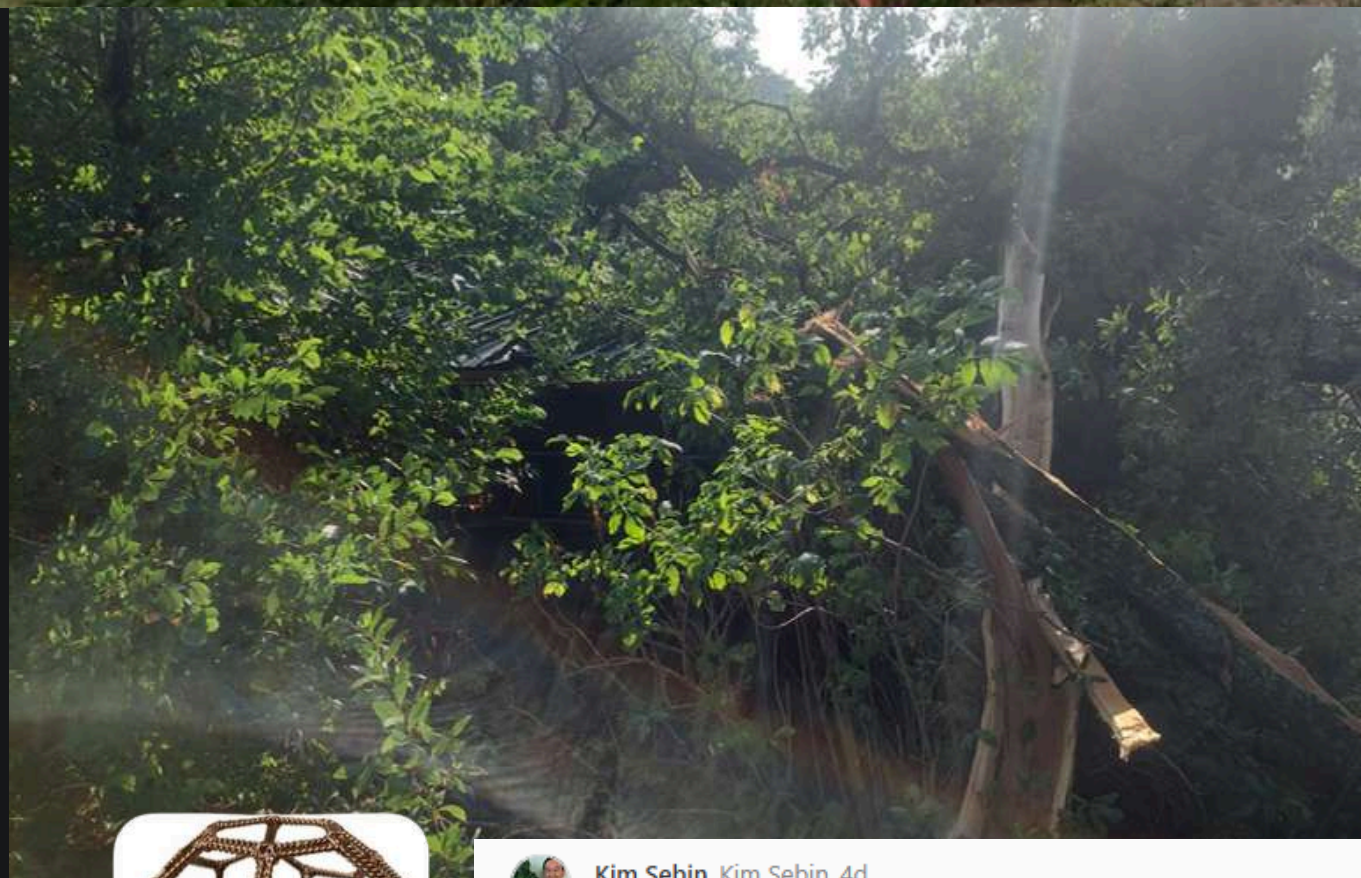
Now for something truly revolutionary! On July 7, Uranus zaps into Gemini, striking like lightning in your third house of communication, friendships and local buzz. The side-spinning planet hasn't toured this sign since the 1940s—so for many Rams, this is a completely unprecedented cycle. Buckle up! Through November 7, you'll get a charged preview of a much longer transit, which picks up again from April 2026 to May 2033.



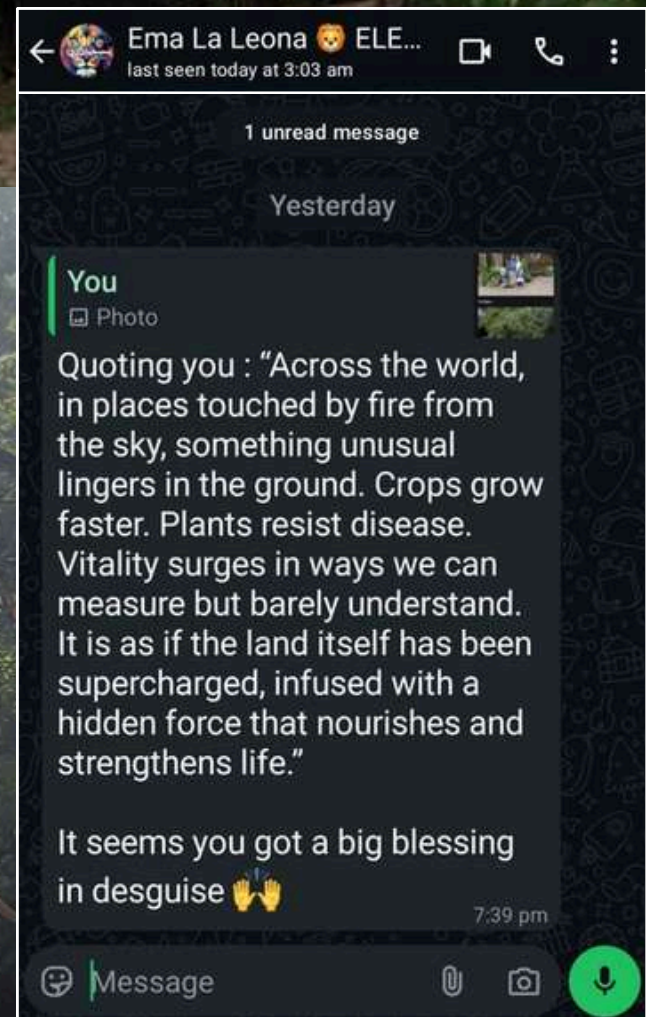
*"She stood in the storm, and when the wind did not blow her way, she adjusted her sails."*

— Elizabeth Edwards





Jason Adams Top contributor  
**Ray Lee Bacon** I've been working with C60 energies...definitely something there  
  
Sorry to hear about the trees and damage on your property 🙏🙏



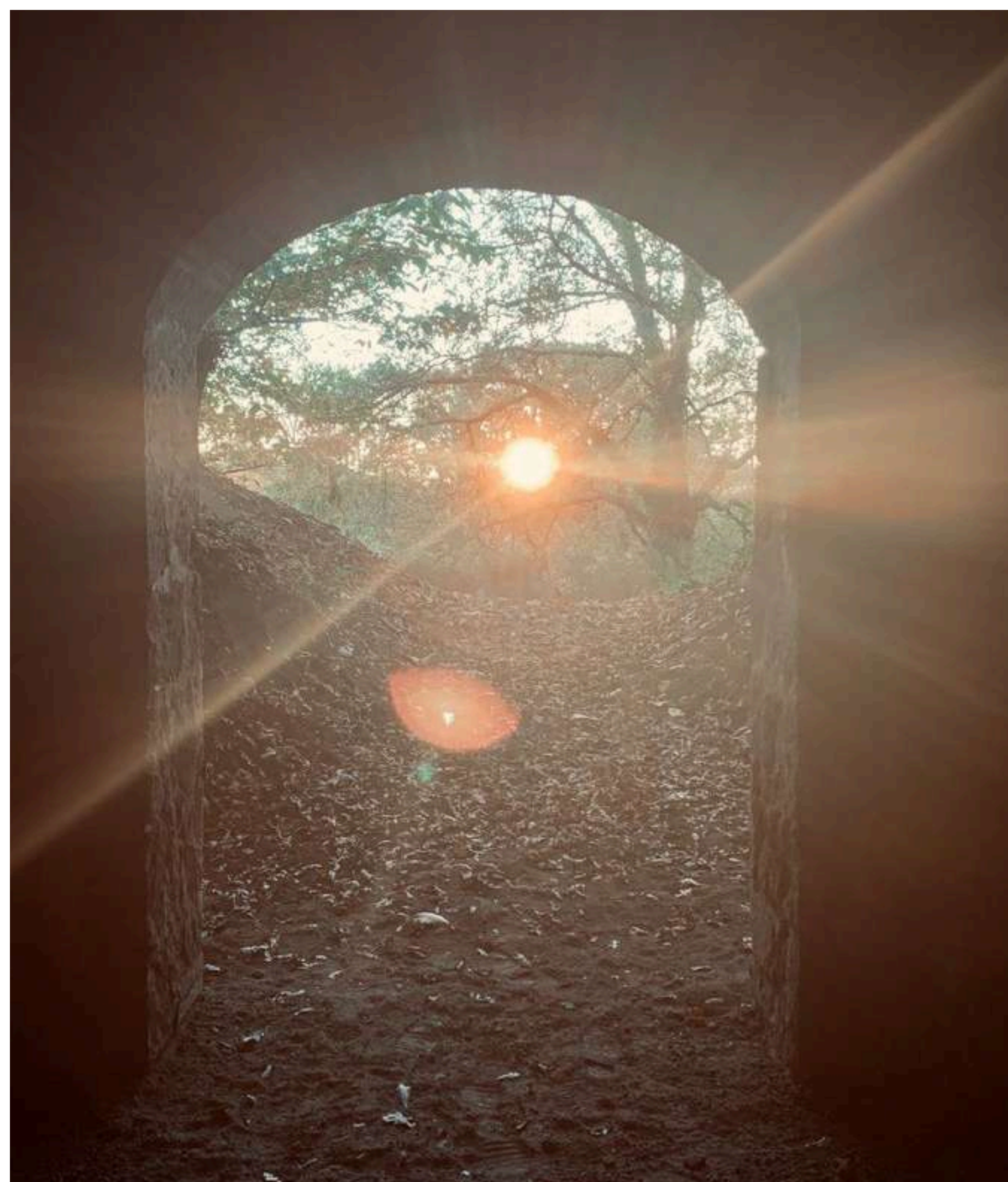
**Juliette Bryant** Juliette Bryant 5d  
I can't wait to see what you grow from this xx sorry for the extremeness of it though but as you said something new will grow from it xx and you have a lifetime supply of wood  
LIKE REPLY SHARE

**Kim Sebin** Kim Sebin 4d  
Yeh it seems really devastating, but it also can be a new beginning.  
  
In the midst, you are standing strong and firm that will lead you to find a new way.  
  
Cosmic help be with you ! And you will know this isn't just an accident , It is reforming of your life.  
LIKE (1) REPLY SHARE

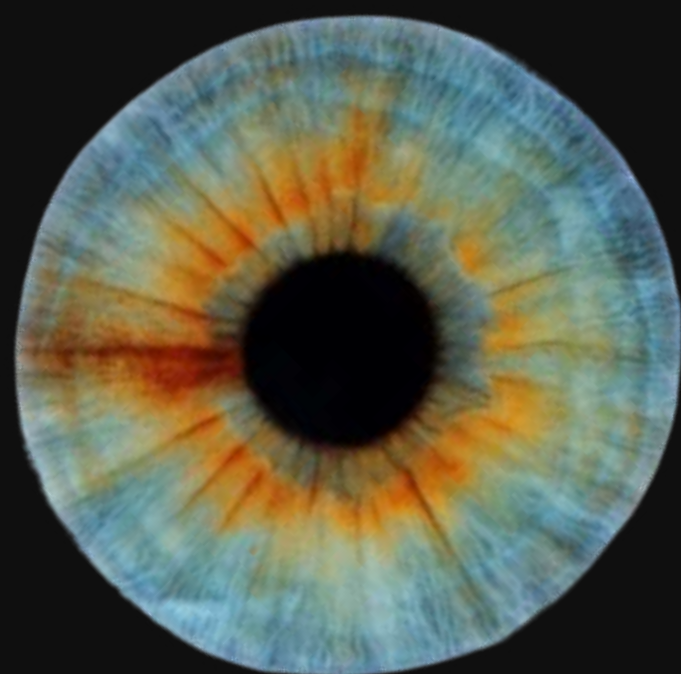












CANCER CELL

HEALTHY CELL

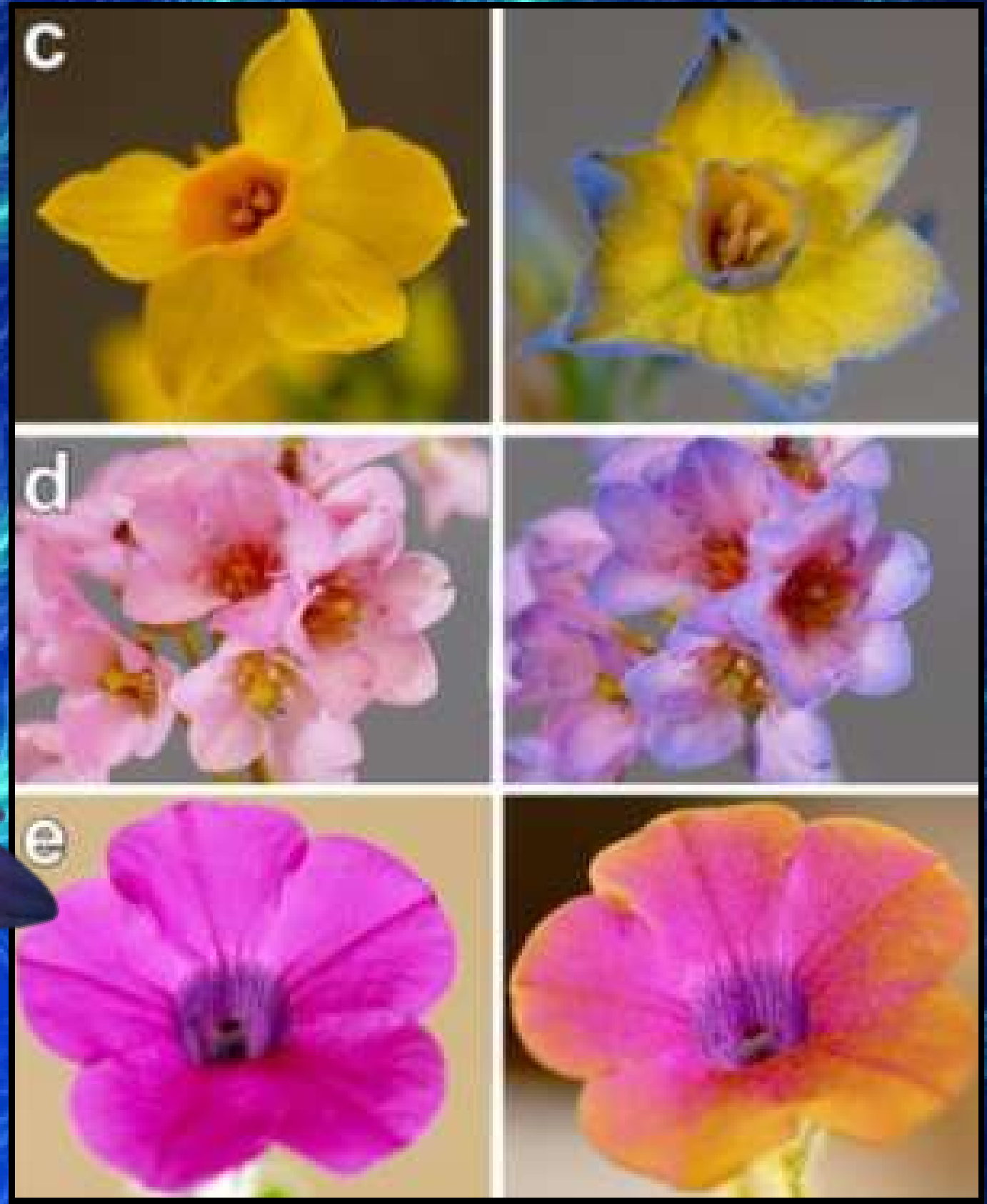
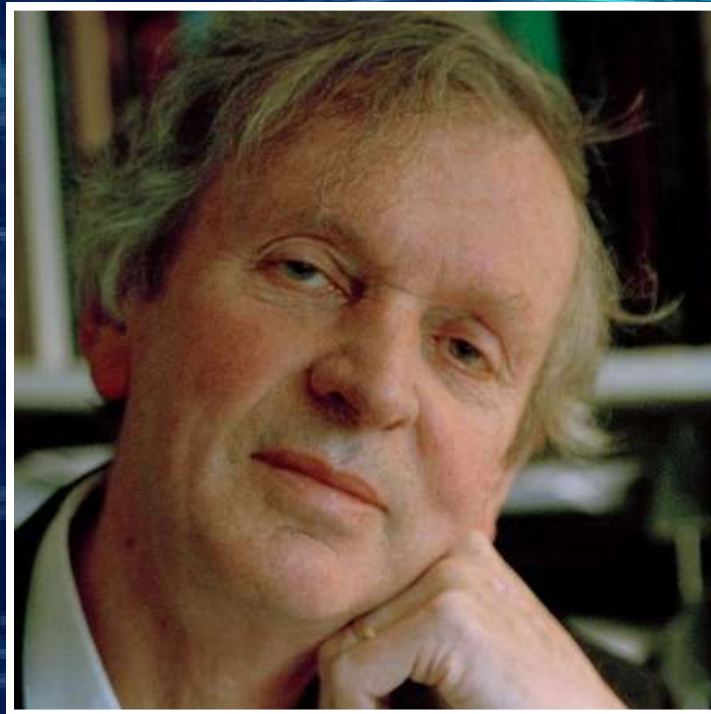


**SMALL  
WORLD  
IN MOTION**





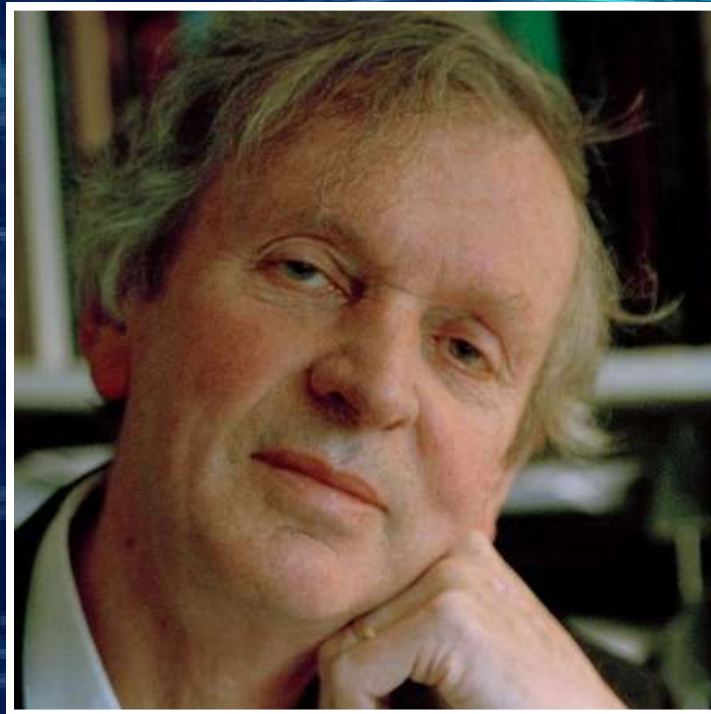




Rupert Dear Ray Thank you for your invitation. As it happens, I'm interested in a particular electrical que

Jul 1





**Rupert Sheldrake**

To: me

11:25 am [View details](#)

Thanks Ray for your reflections and the images.

I had hoped that someone would actually do this simple test, not just talk about it!

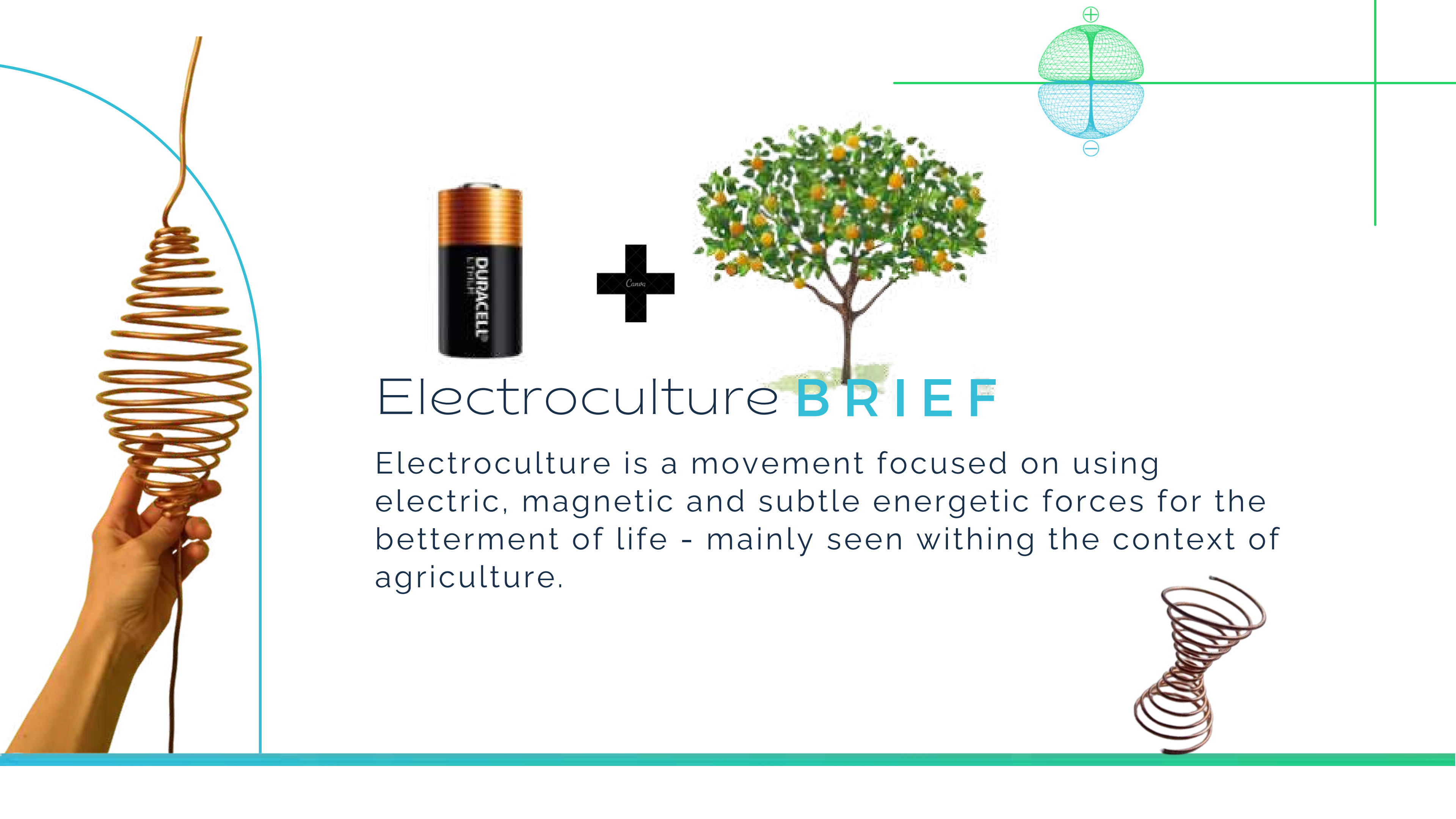
*[Blurred text]*

Best wishes  
Rupert

**Rupert** Dear Ray Thank you for your invitation. As it happens, I'm interested in a particular electrical que

Jul 1



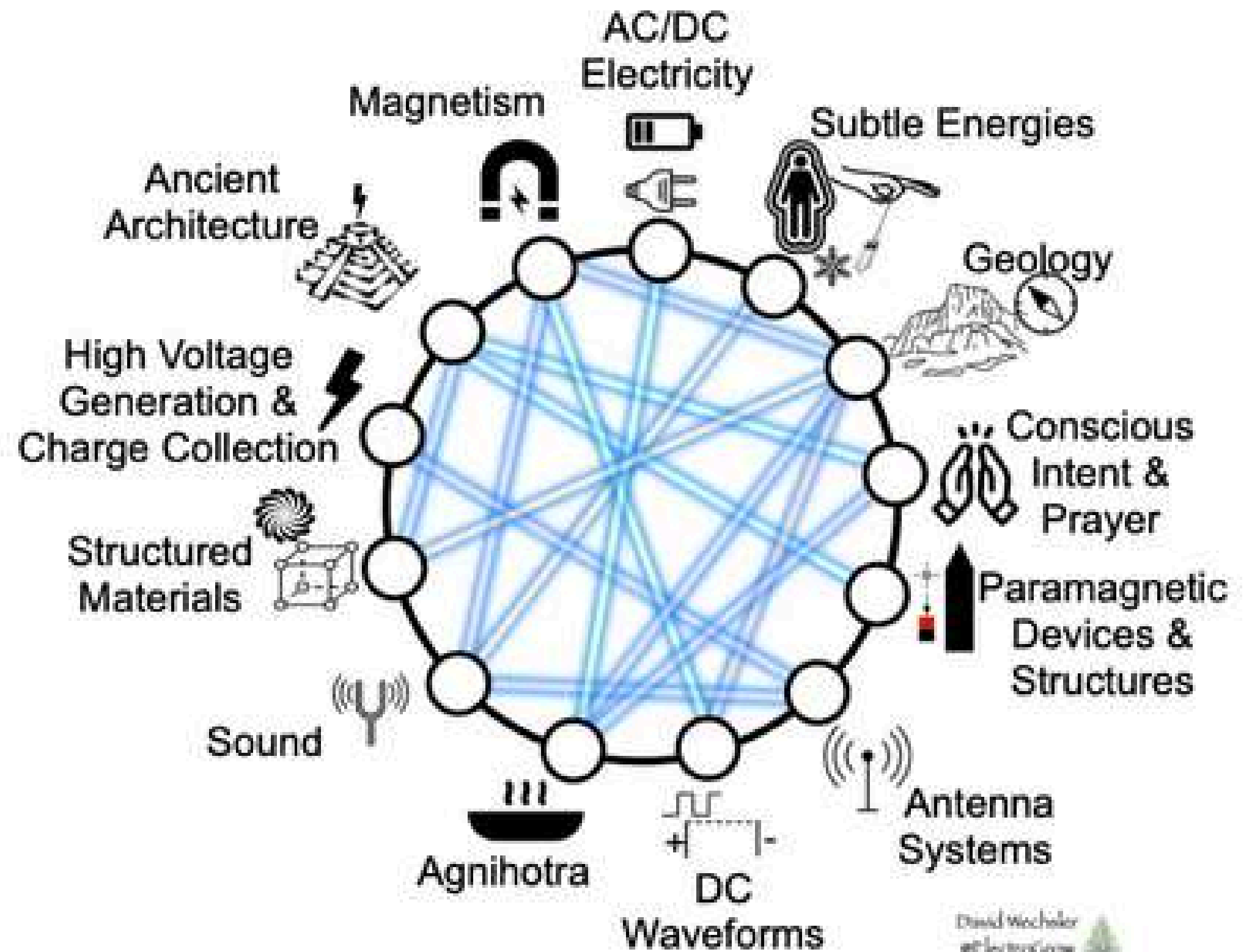


# Electroculture **BRIEF**

Electroculture is a movement focused on using electric, magnetic and subtle energetic forces for the betterment of life - mainly seen within the context of agriculture.



# ACTIVE VS PASSIVE





# ACTIVE VS PASSIVE

INFLUENCING **PLANT  
METABOLISM, NUTRIENT  
ABSORPTION, AND MICROBIAL  
ACTIVITY.**

REDUCES DEPENDENCE ON  
CHEMICAL FERTILIZERS &  
PESTICIDES.













Electroculture, paramagnetism and  
healing crystals

facebook.com



Shawn Garvin

Admin

Top contributor

ACTIVE

AC/DC





ACTIVE & PASSIVE DEVICES





# A LITTLE ABOUT THE HISTORY OF ELECTROCULTURE



# Grows Huge Crops with Aid of Electricity

*French Wizard Discovers Amazing New Method of Farming*

By Alfred Gradenwitz



A Modern Magic Wand

St. Francis, Kansas, August 10.—The French wizard, who has been making a name for himself in the United States by his discovery of a new method of growing crops, has been making a name for himself in the United States by his discovery of a new method of growing crops.

**A** FRENCH wizard, who has been making a name for himself in the United States by his discovery of a new method of growing crops, has been making a name for himself in the United States by his discovery of a new method of growing crops.



Grown by Electricity

The plant was grown by the use of electricity, and it is a very large plant.

He is utilizing the magnetism of the earth, the electricity of the air, and the energy from the heat of the sun to his purpose.

He is utilizing the magnetism of the earth, the electricity of the air, and the energy from the heat of the sun to his purpose.

disposed to garden at night. There is also a metal cylinder of copper and zinc which contains a solution of electricity.

It is long has been known that when the plants of different degrees of heat, electricity, and magnetism are placed in a box, an electric current is generated.

At the same time, the plants are placed in a box, and the electricity is generated.

According to the French wizard, the electricity of the earth, the electricity of the air, and the energy from the heat of the sun to his purpose.



Shows Some Real Height

The plant was grown by the use of electricity, and it is a very large plant.



1. Vibrating wires under the action of the wind
2. Electricity of the floating air carried by the clouds.

3. South

4. North

5. Thermo electric pile (action of the sun)

7. Voltaic pile (action of the rain)

8. Telluric Currents

6. Bolt for securing the galvanised wire

10. Electric Depot caused by the sun and the frost



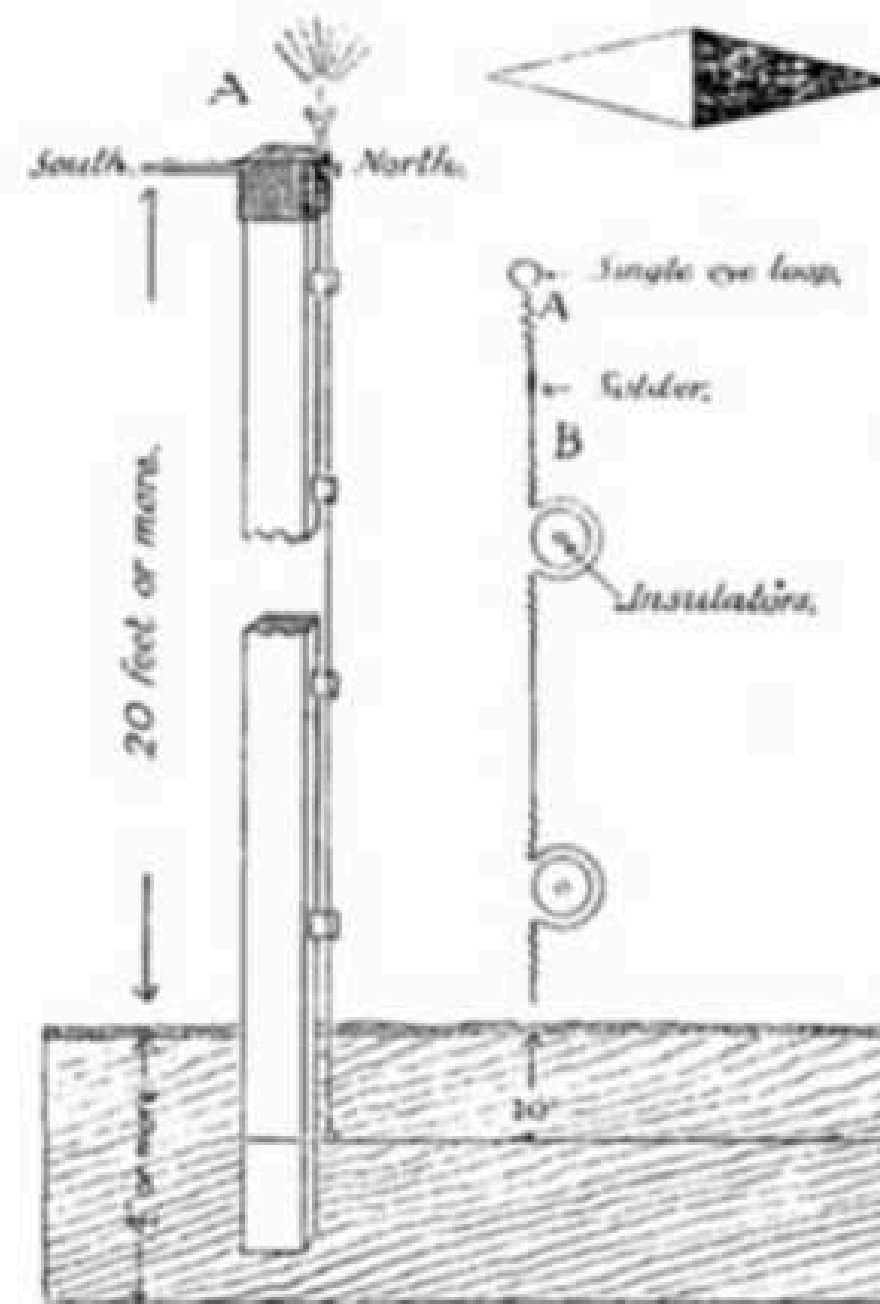
Electroculture Gardening, Antennas, Magnetic Structured Water & More!

Revolutionize your gardening with Electroculture, amplify growth with antennas, and enhance water quality with magnetic structures. Explore more now!

Thrive Garden







NOTE.

The Main Wire is passed straight down the post beside the insulators, and is connected to them by soft tie wire.



# Massive **PLANTS** Enormous **YIELDS**





1922



2022







**Aaron Stanley**  
21h · 🌐

Real talk: somehow I stumbled on this group in my FB feed. I thought you guys were a bit off your rockers, but I always keep an open mind. Fast forward to a month or so, I made my own antennas, and I'll be damned if I don't have the best tomato crop I've had in a a dozen years!

That being said.... question:

My copper antennas I made (clockwise spirals) have started to oxidize. Is this an issue? I think I've read of some folks spraying them with clear coats.

I'm slowly becoming a believer, there's something to this, and I now wanna maximize my returns!!!

 You, Alexandra Wechsler and 29 others

 31

 4







Comment as Ray Lee Bacon



**Winds Vlog** ▶ ELECTROCULTURE Beginners to Advanced Community!  
👑 Top contributor · July 11 at 1:30 AM · 🌐

This is amazing! Was a try before we went on vacation couple weeks ago. Was -6 in Netherlands when we were away. The Rubarb is still above the ground 🙌 the other one in a different spot is completely underground



[View insights](#)4.9K post reach >

 Vincenzo Pagliara, John Borg and 60 others5 shares



**Derek Switzer**  
👑 Top contributor 7h · 🌐

What a difference., I think using my left over copper and leaving on the spool really help that plant explode. It was on of the smallest plants as shown in the picture.(back right). My cantaloupe is even thriving.

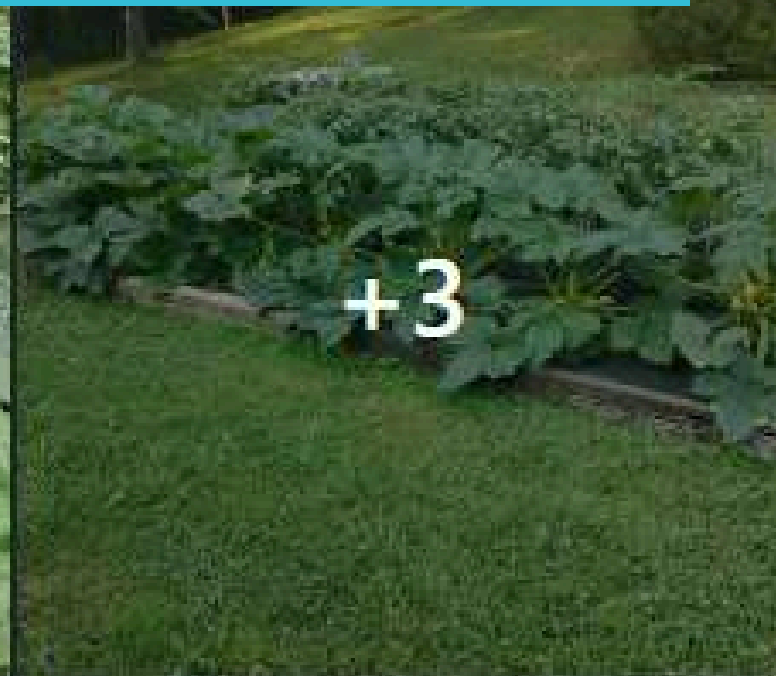
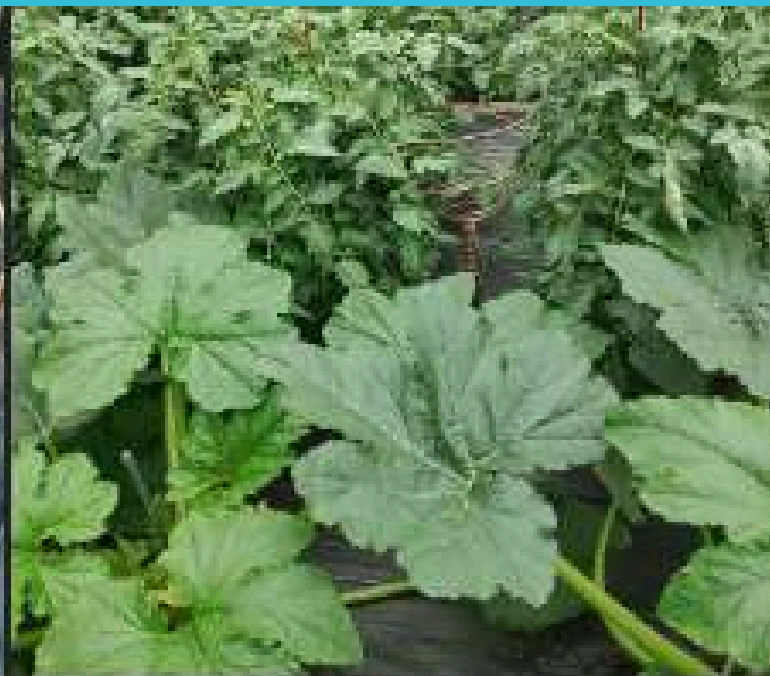
Edit: I also have to mention i haven't had an issue with any kind of pests. I have not needed insecticide spray for aphids or anything else since I added my electroculture set up. This is my third year using it. Every T bar has a copper coil of sorts at the top. They then wrap around all way down into the roots of every plant.  
I put that huge pyramid shaped quartz rock in there hoping it would be beneficial some how. L







I've planted this raised bed for over a decade and have never had these types of results so quickly.



[View insights](#)

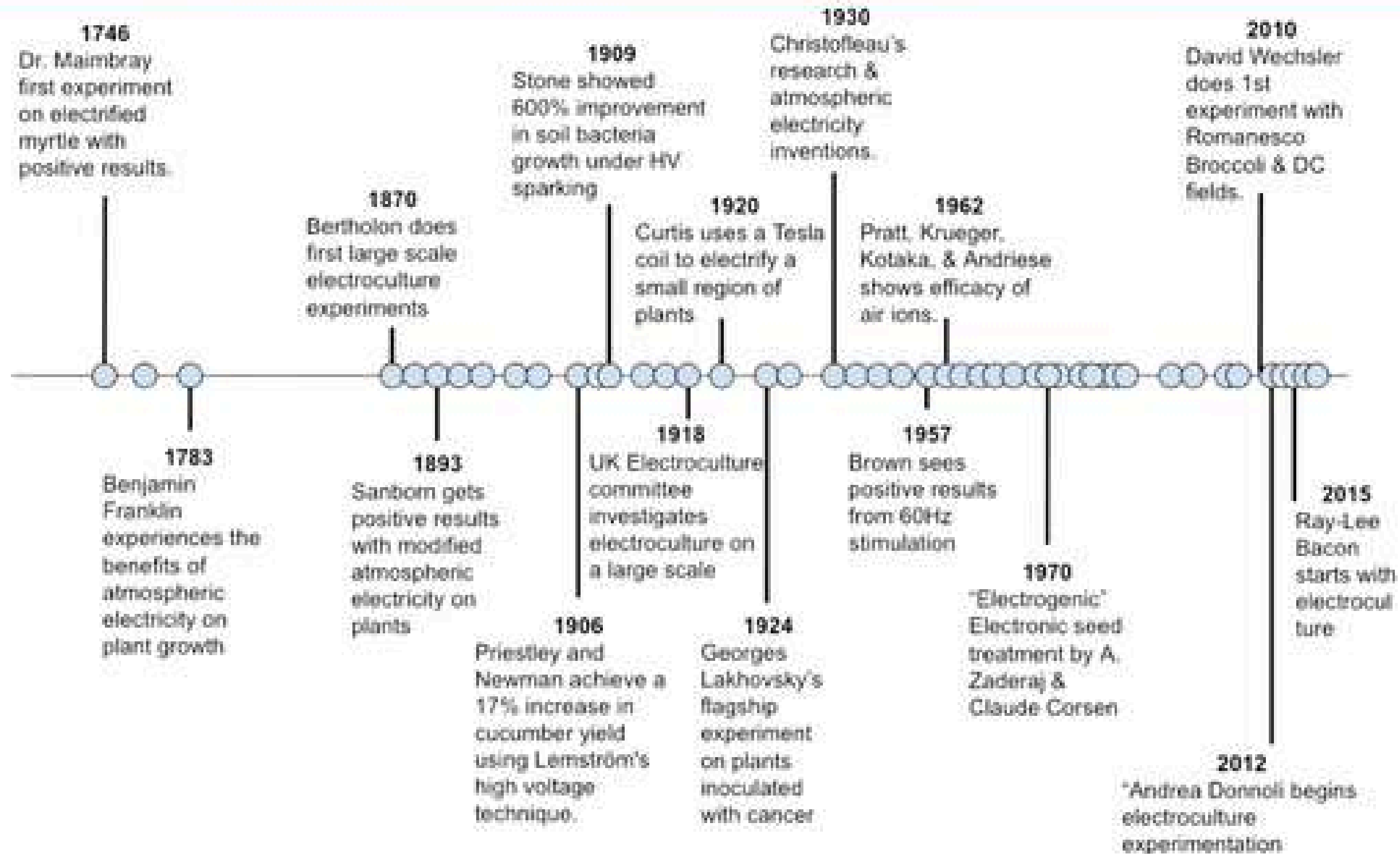
53.2K post reach >

  1.3K

147 comments 175 shares



# Timeline of MODERN ELECTROCULTURE





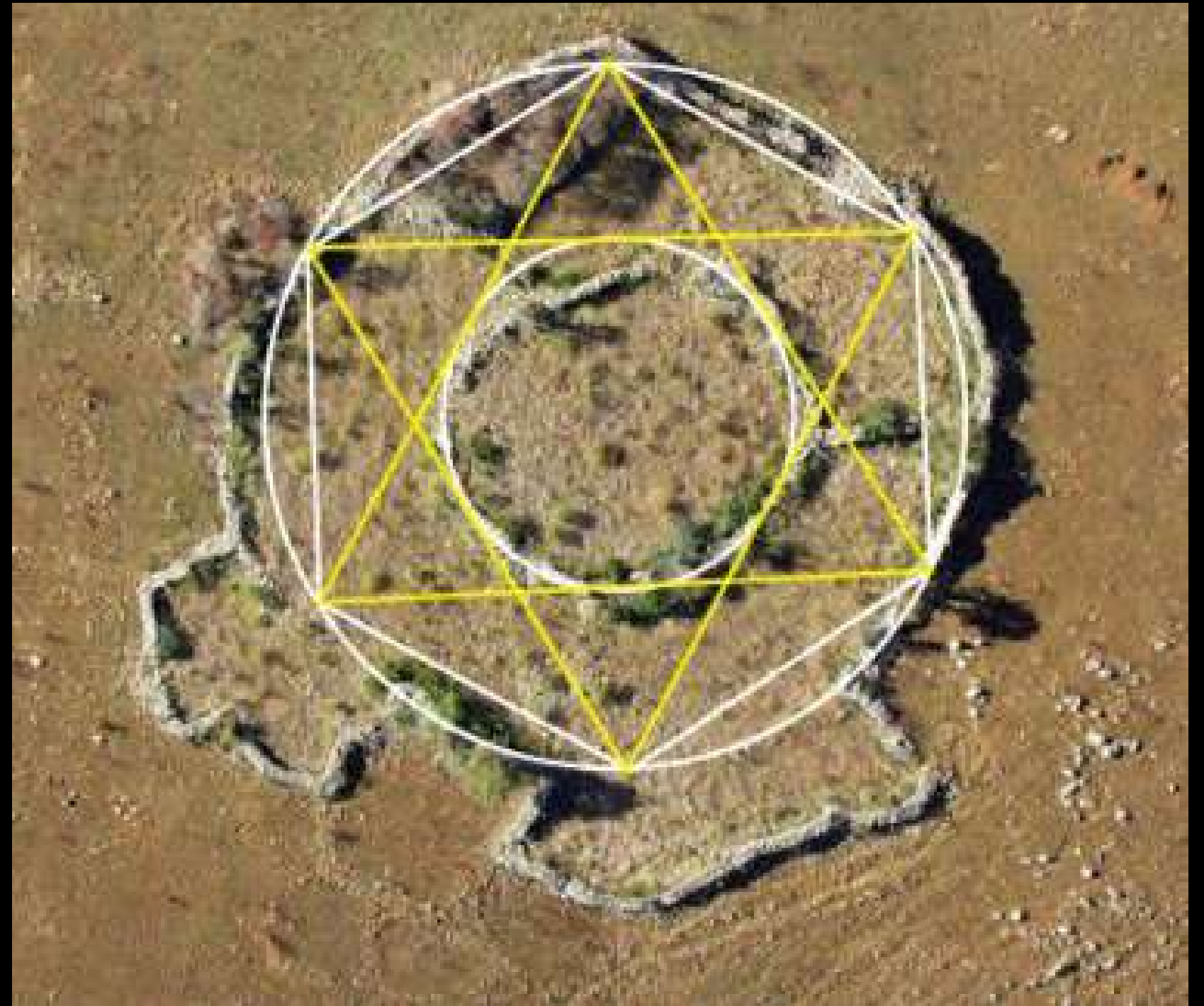
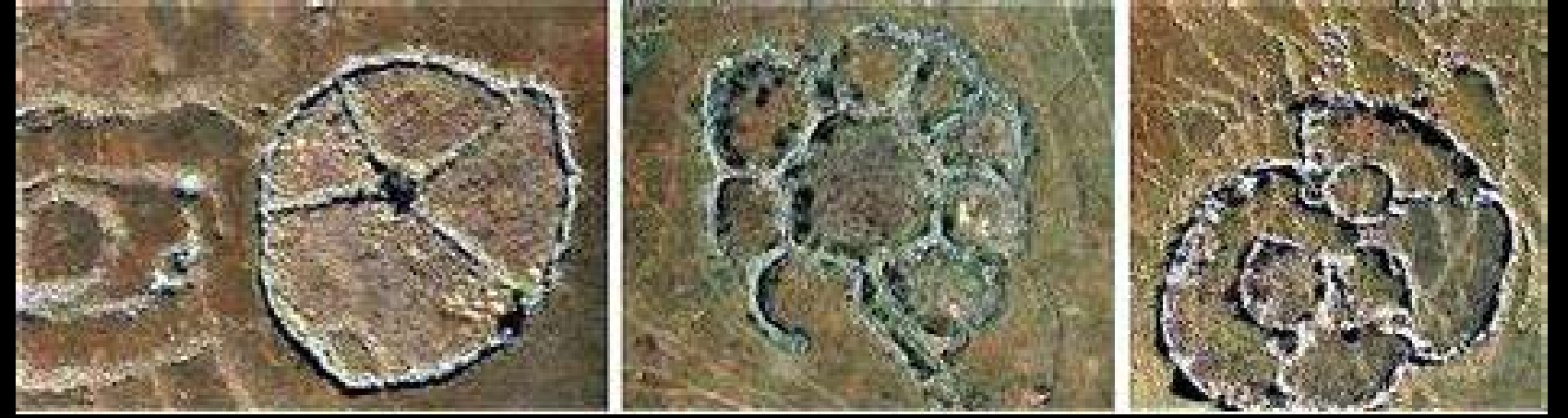


*Fig. 51. The bluestones of Stonehenge, transported 125 miles from Wales, were the most magnetic stones that the builders could locate. The 'C' shaped ditch, which truly defines a henge, would serve to concentrate electric ground currents that can be quite powerful at these carefully chosen, special sites. Stonehenge was in use for a thousand years and abandoned only after the discovery of fertilizer. (Photo copyright © by Kaj Halberg)*

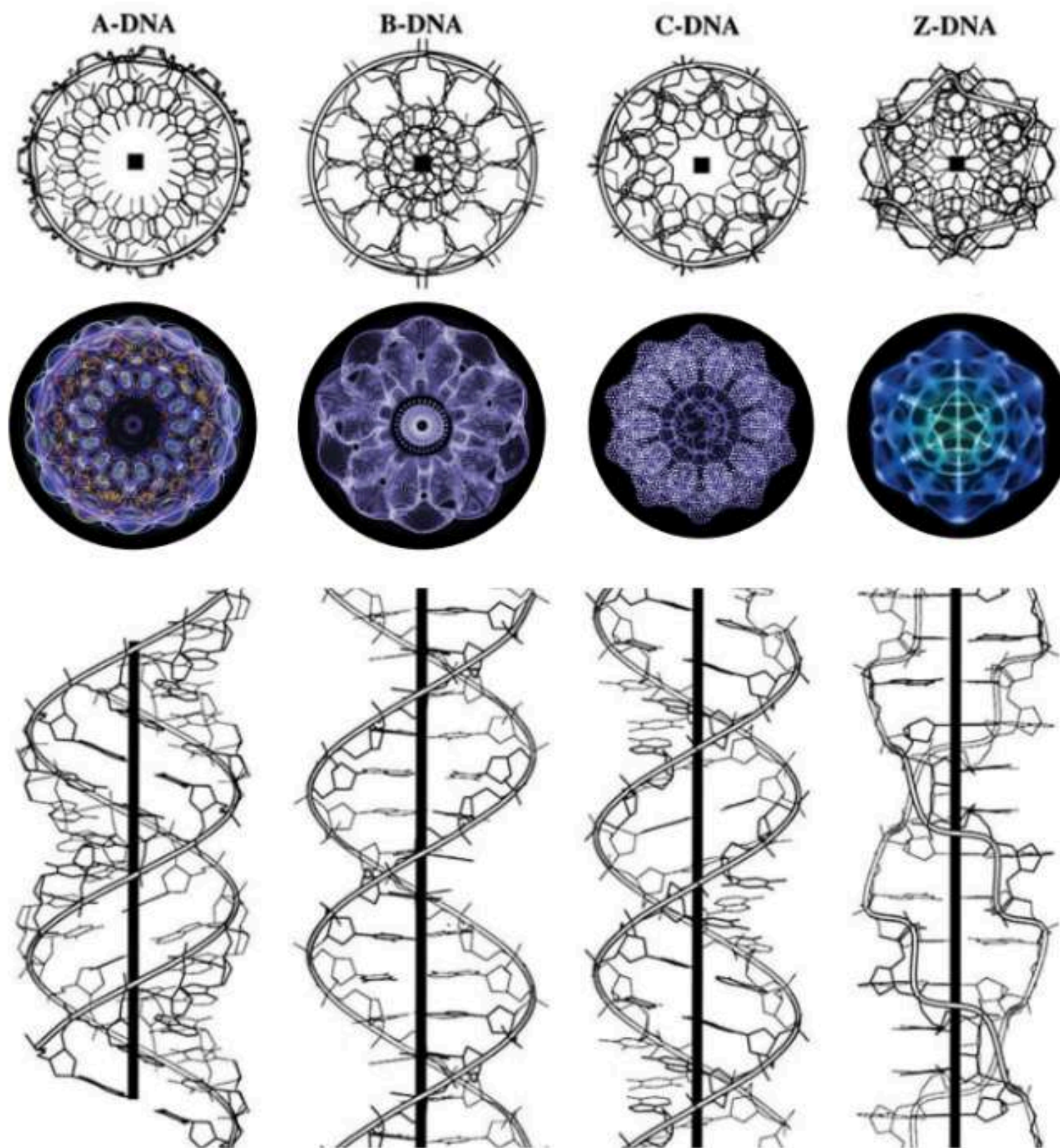


*Fig. 49. West Kennet Avenue, which connects Avebury Henge with Overton Hill. The stones act like bar magnets, with all their north poles lined up in the same direction. This was probably done to direct ions to Avebury. (Photo copyright © by Kaj Halberg)*





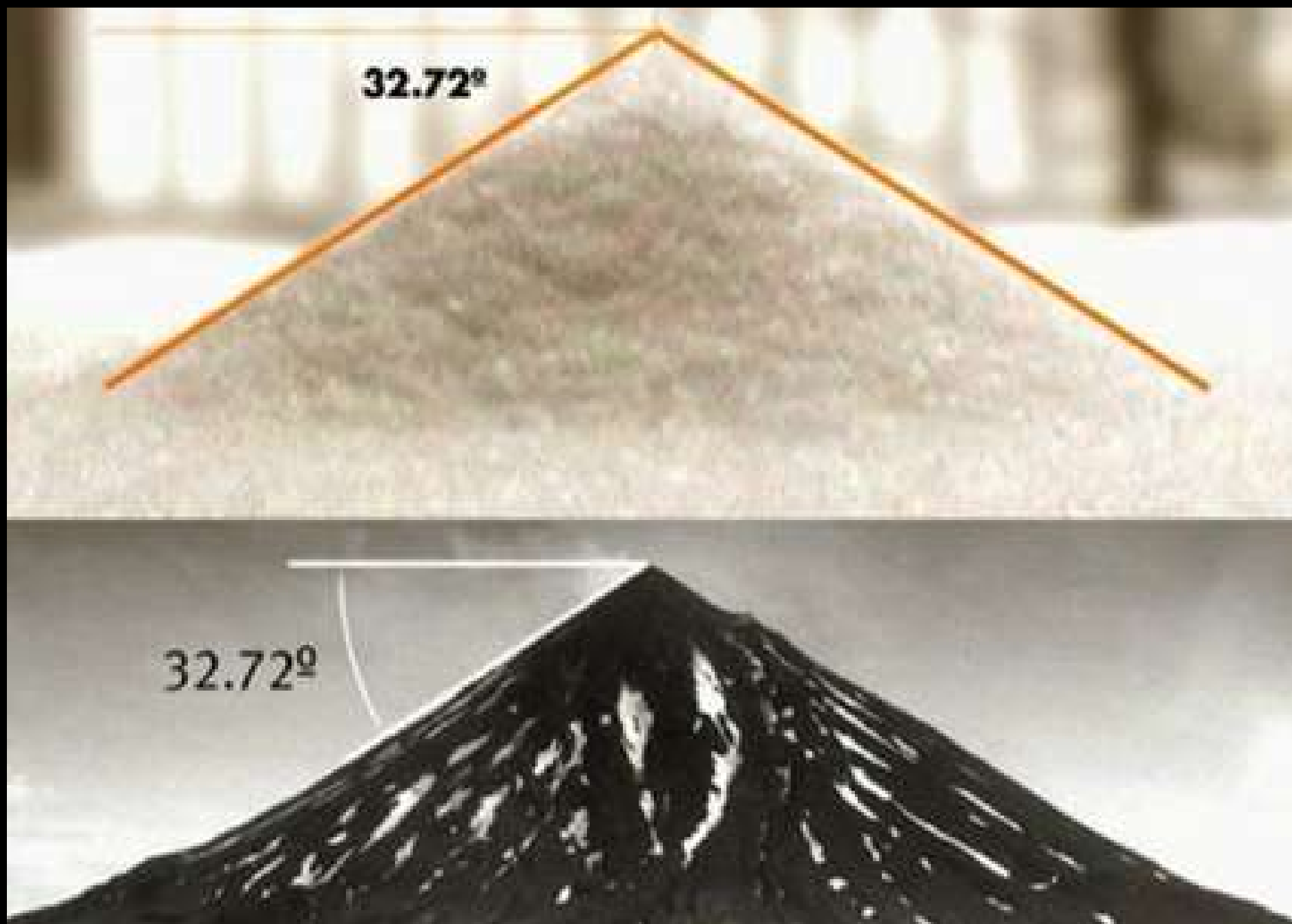




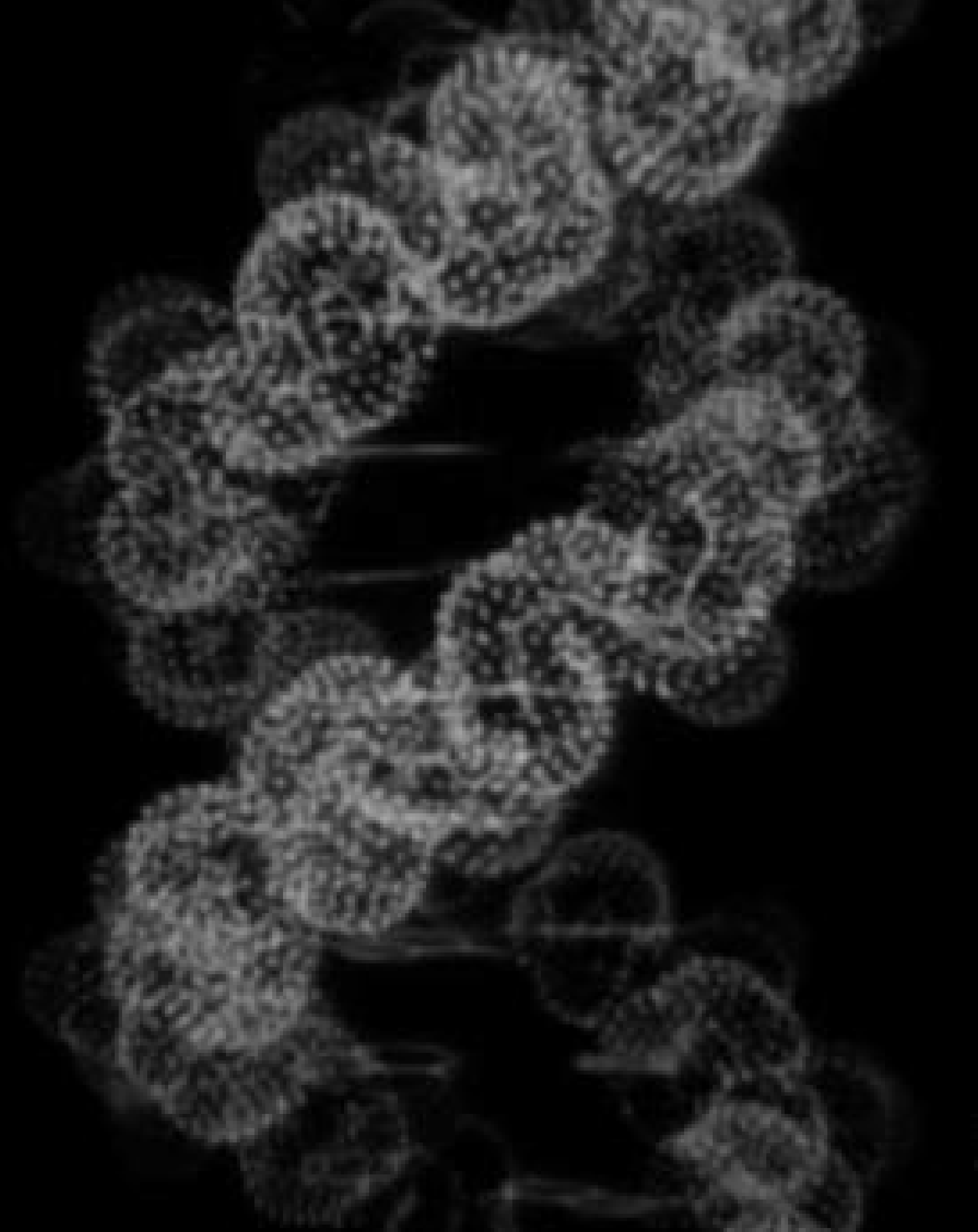








**DNA – Sacred Mountains – Volcanoes**





## State of Mind = Frequency



Delta 3Hz



Theta 7Hz

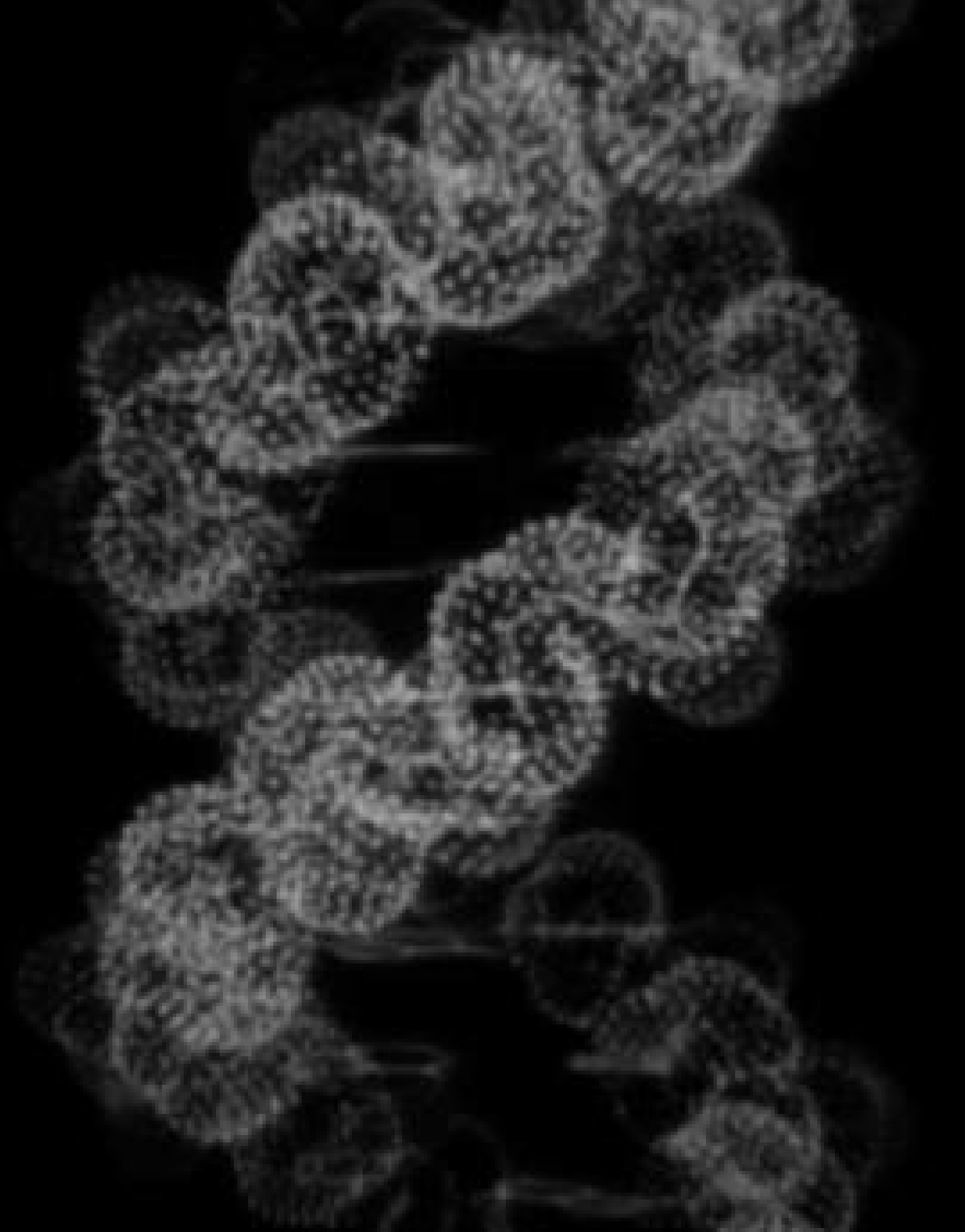
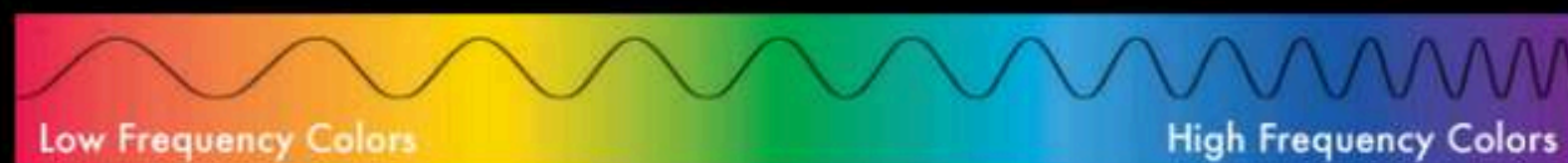


Alpha 10Hz

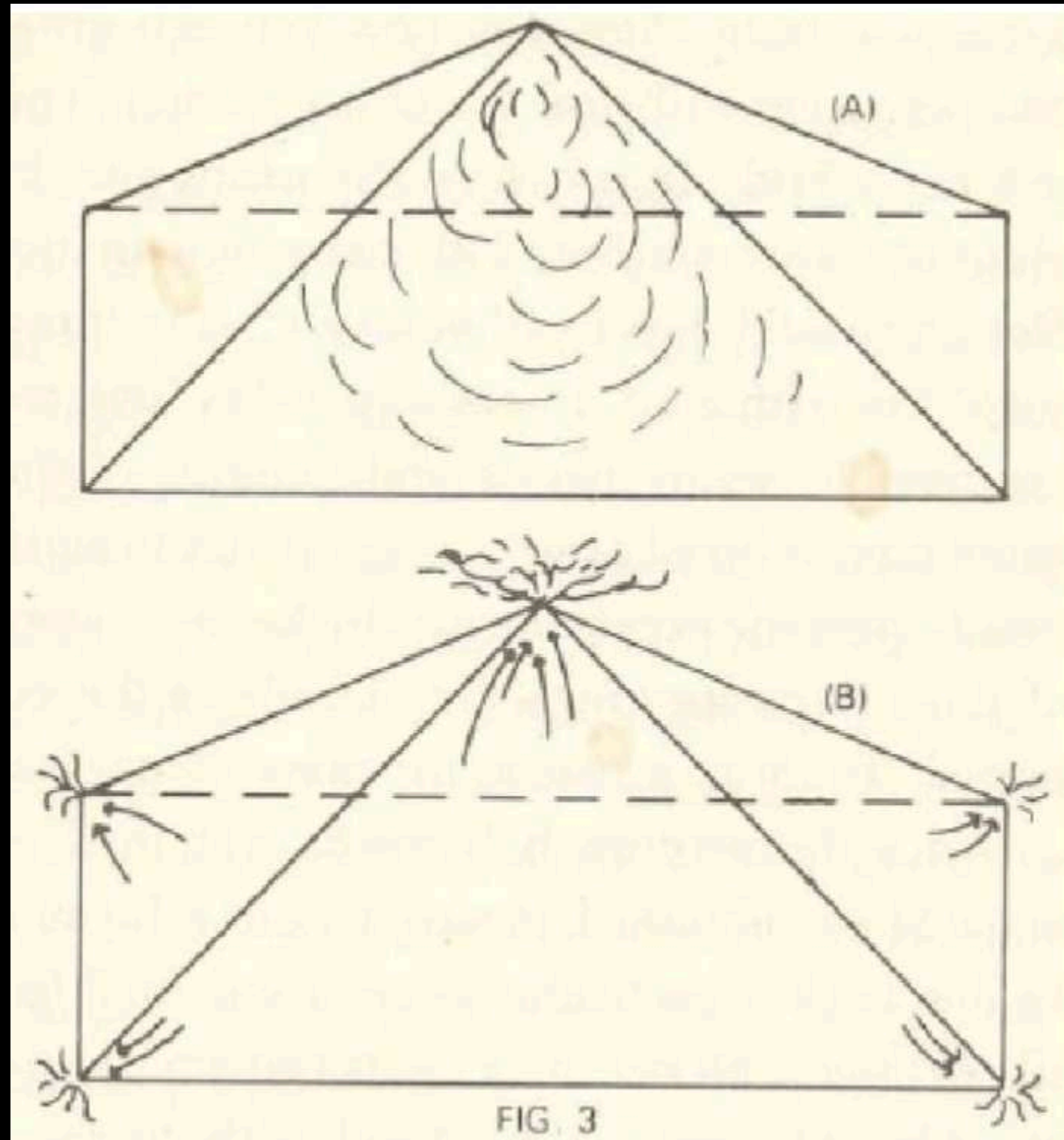


Beta 19Hz

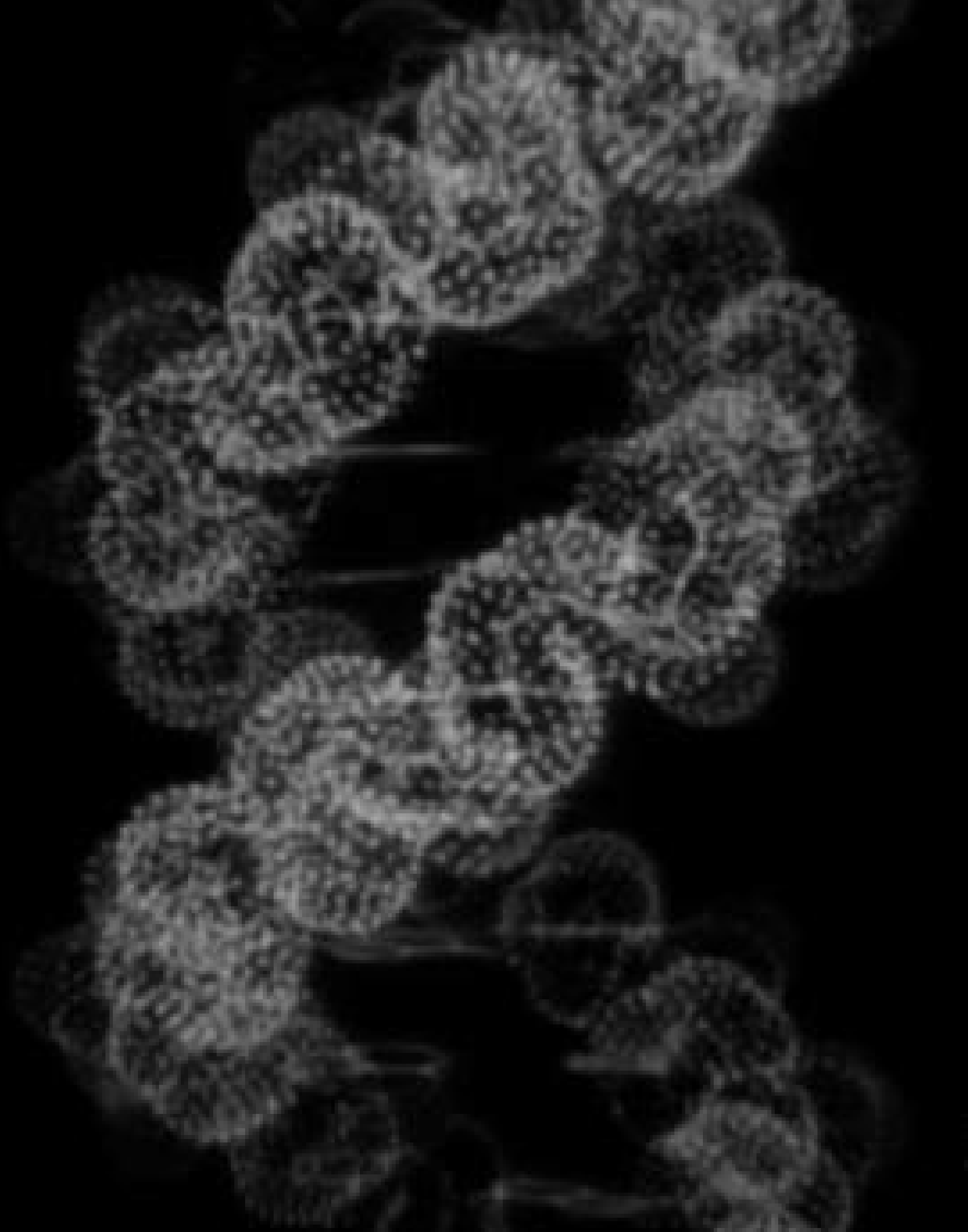
<b>Delta</b> (0.3 - 4Hz)		<ul style="list-style-type: none"><li>• Dreamless sleep</li><li>• Access the subconscious</li><li>• loss of bodily awareness</li></ul>
<b>Theta</b> (4 - 8Hz)		<ul style="list-style-type: none"><li>• Inner peace</li><li>• REM sleep</li><li>• Deep meditation</li></ul>
<b>Alpha</b> (8 - 13Hz)		<ul style="list-style-type: none"><li>• Creativity</li><li>• Flow state</li><li>• Focus</li></ul>
<b>Beta</b> (13 - 30Hz)		<ul style="list-style-type: none"><li>• Concentration</li><li>• Arousal</li><li>• Alertness</li></ul>
<b>Gamma</b> (30Hz and above)		<ul style="list-style-type: none"><li>• Multi-processing</li></ul>



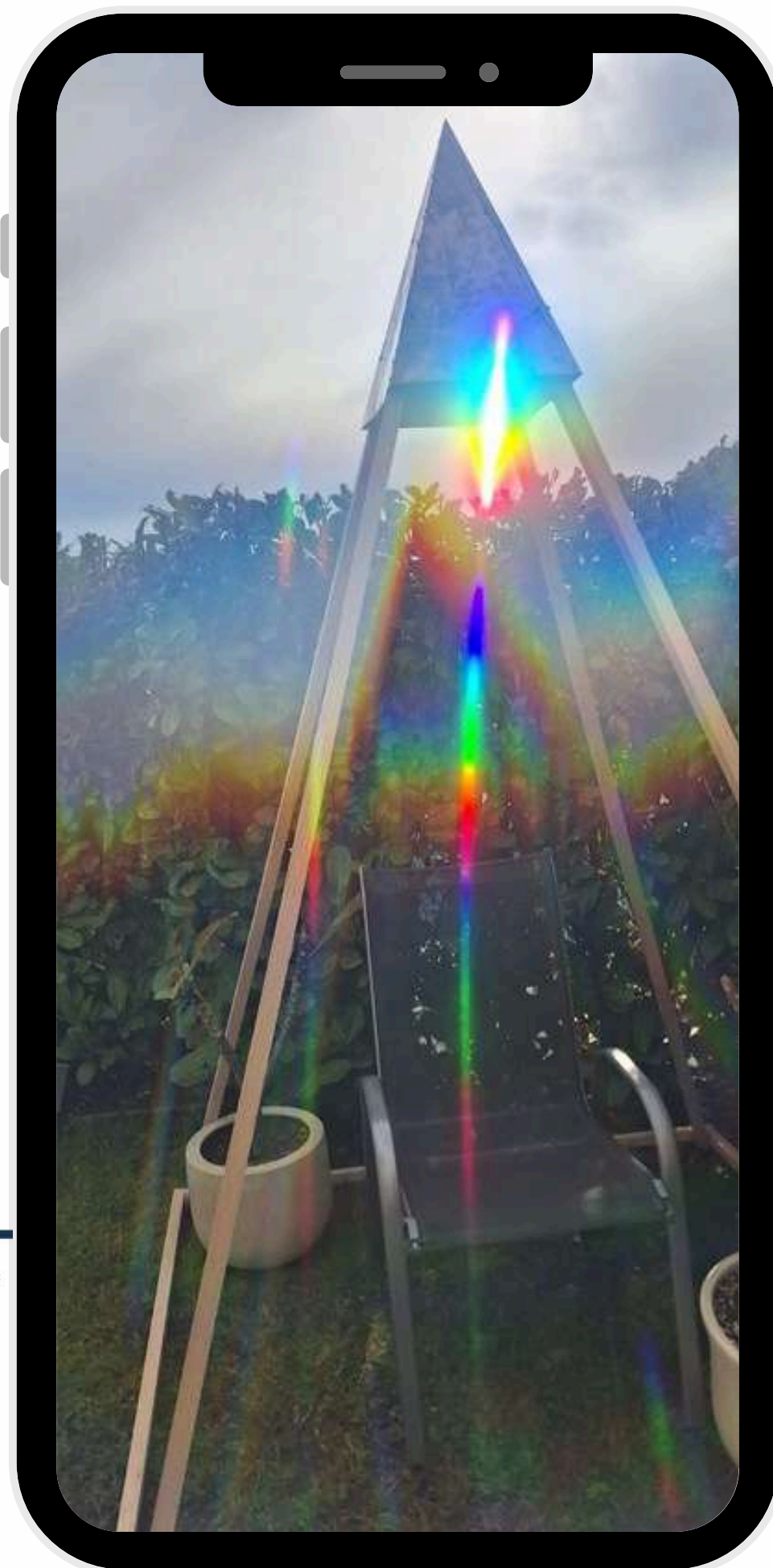




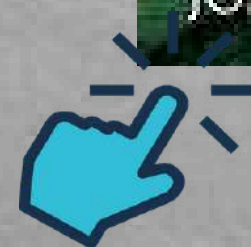
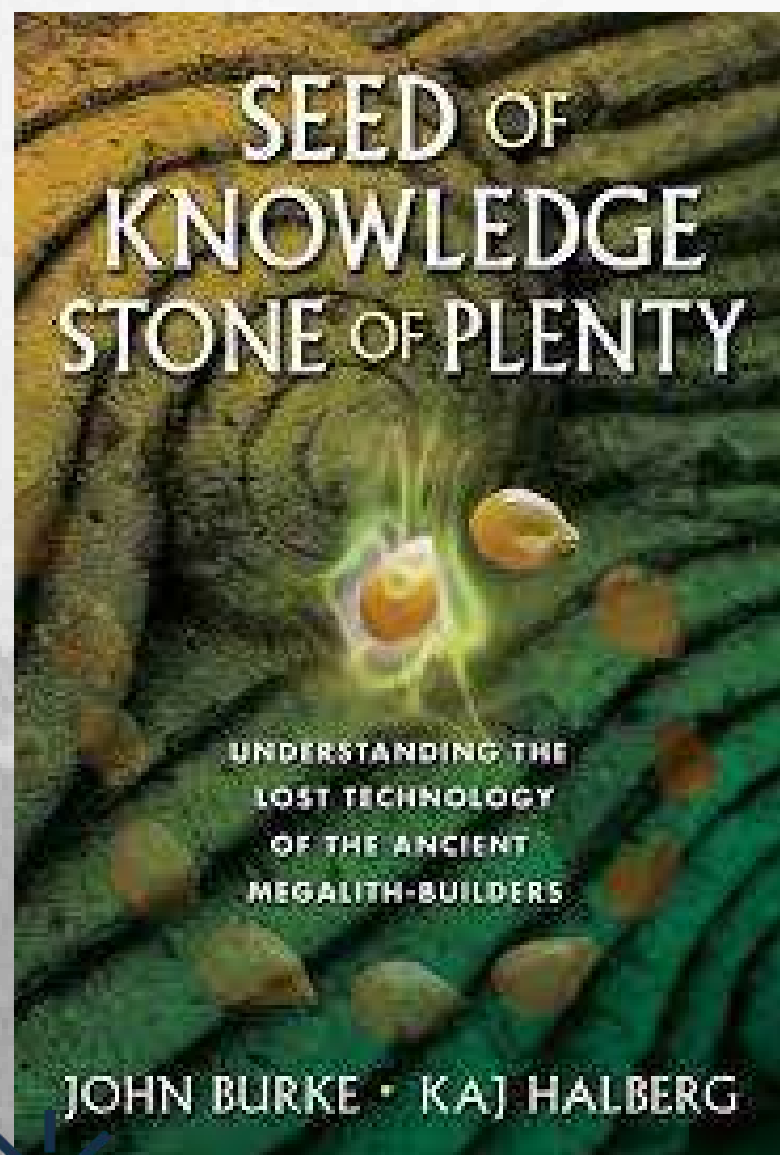
**DNA ⇄ Sacred Mountains ⇄ Volcanoes**







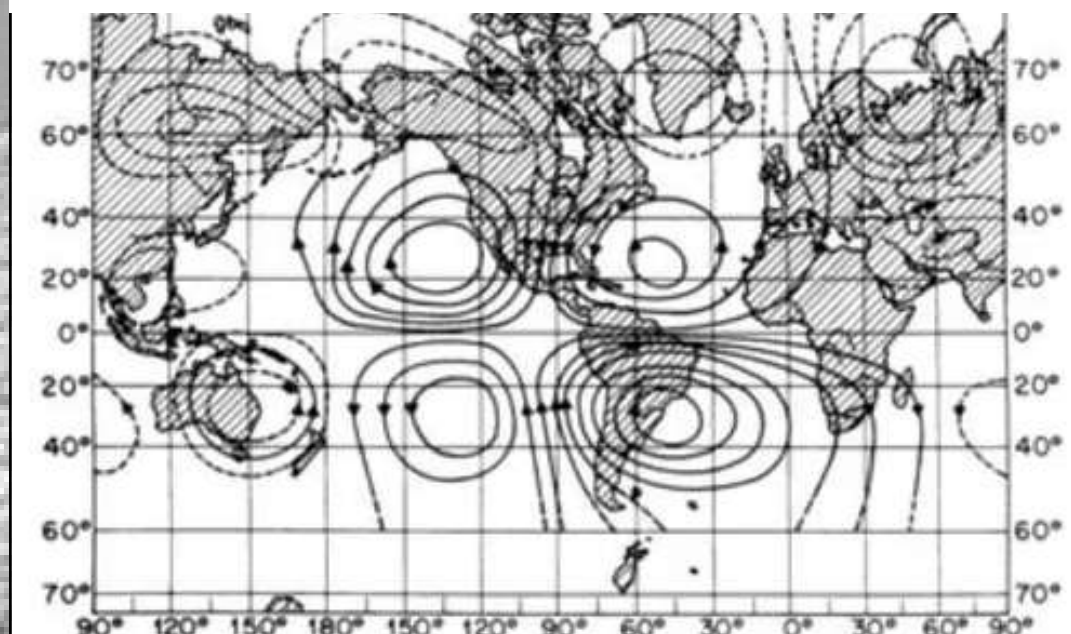
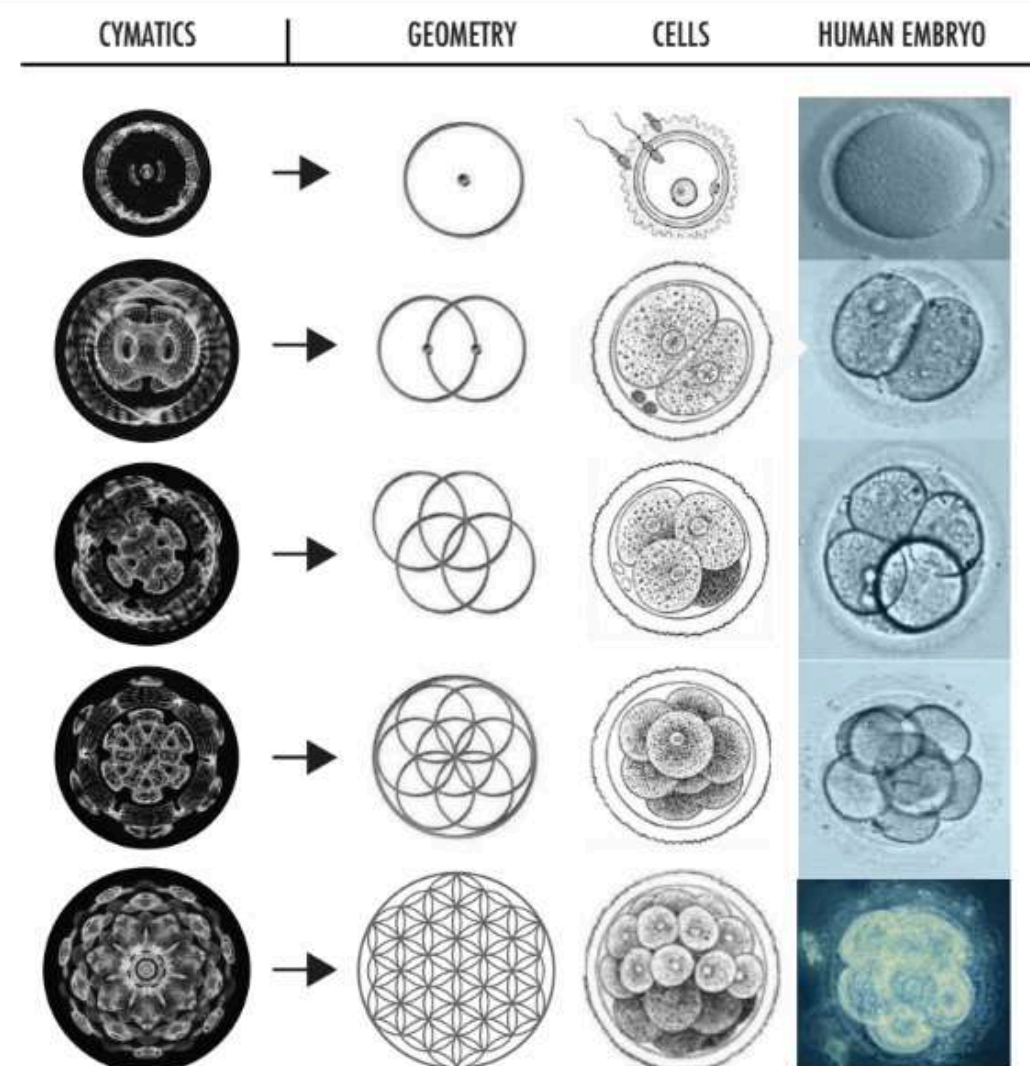






# CREATION

*Cell Division = Flower of Life*







*Author John Burke, measuring airborne electric charge on top of the pyramid El Mundo Perdido, Tikal, Guatemala, October 1998 (Chapter 4). On this old pyramid, we got amazing results, supporting John's theory that many ancient structures were built to increase crop yields. The pink, blue, and yellow piles are corn seed, placed by us on the pyramid. They were later germinated in the U.S., and all showed significantly faster and more uniform growth, and higher yield, than control samples. Our guide Luiz (left) was bored stiff during our activities. (Photo copyright © by Kaj Halberg)*



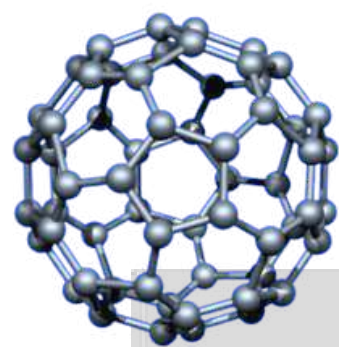


*Fig. 16. Seedlings of same type of Mayan corn as in Figs. 14 and 15, eleven days old, germinated after being placed atop the Lost World Pyramid, on a morning with moderate airborne electric charge. (Photo John Burke, copyright © by Kaj Halberg)*



*Fig. 17. Seedlings of same type of Mayan corn as in Figs. 14-16, eleven days old, germinated after being placed atop the Lost World Pyramid, on a morning with extremely powerful electrical activity. The seeds show dramatic improvement in growth. (Photo John Burke, copyright © by Kaj Halberg)*











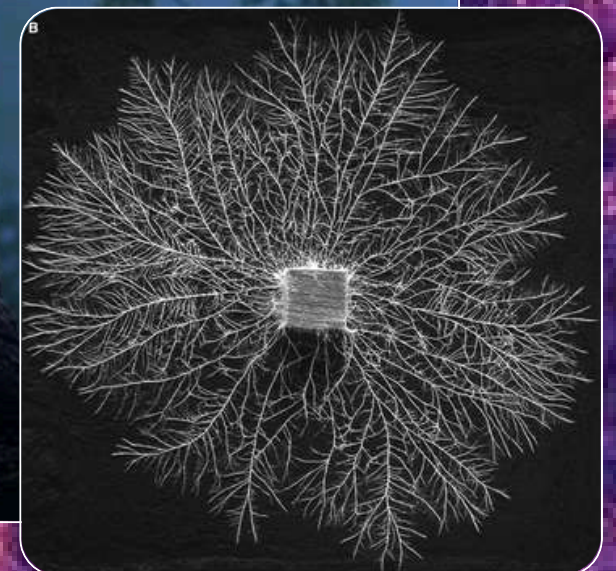
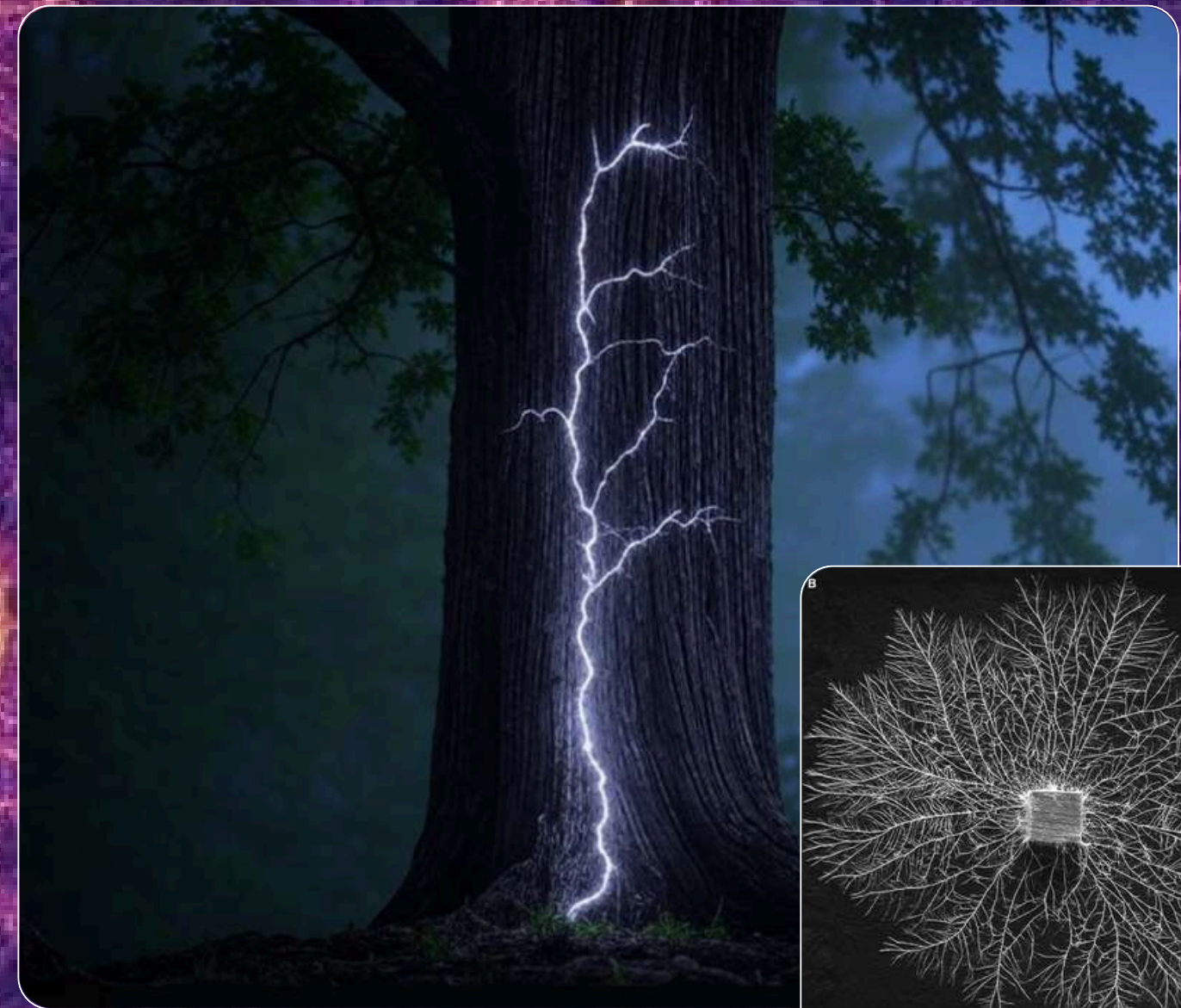
## SIGNATURE PATTERN OF VIBRATION



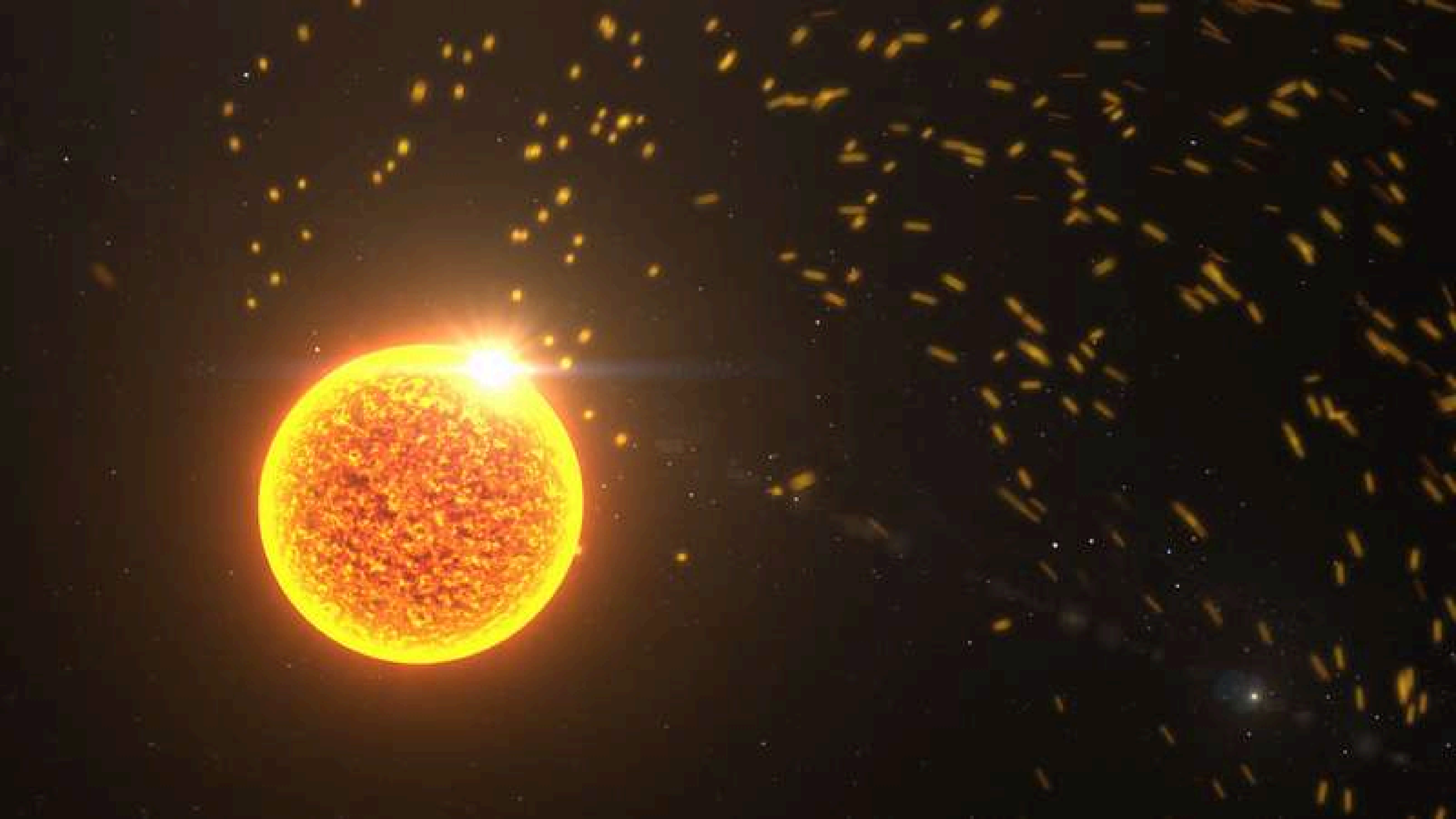
## SIGNATURE PATTERN OF ELECTRICITY



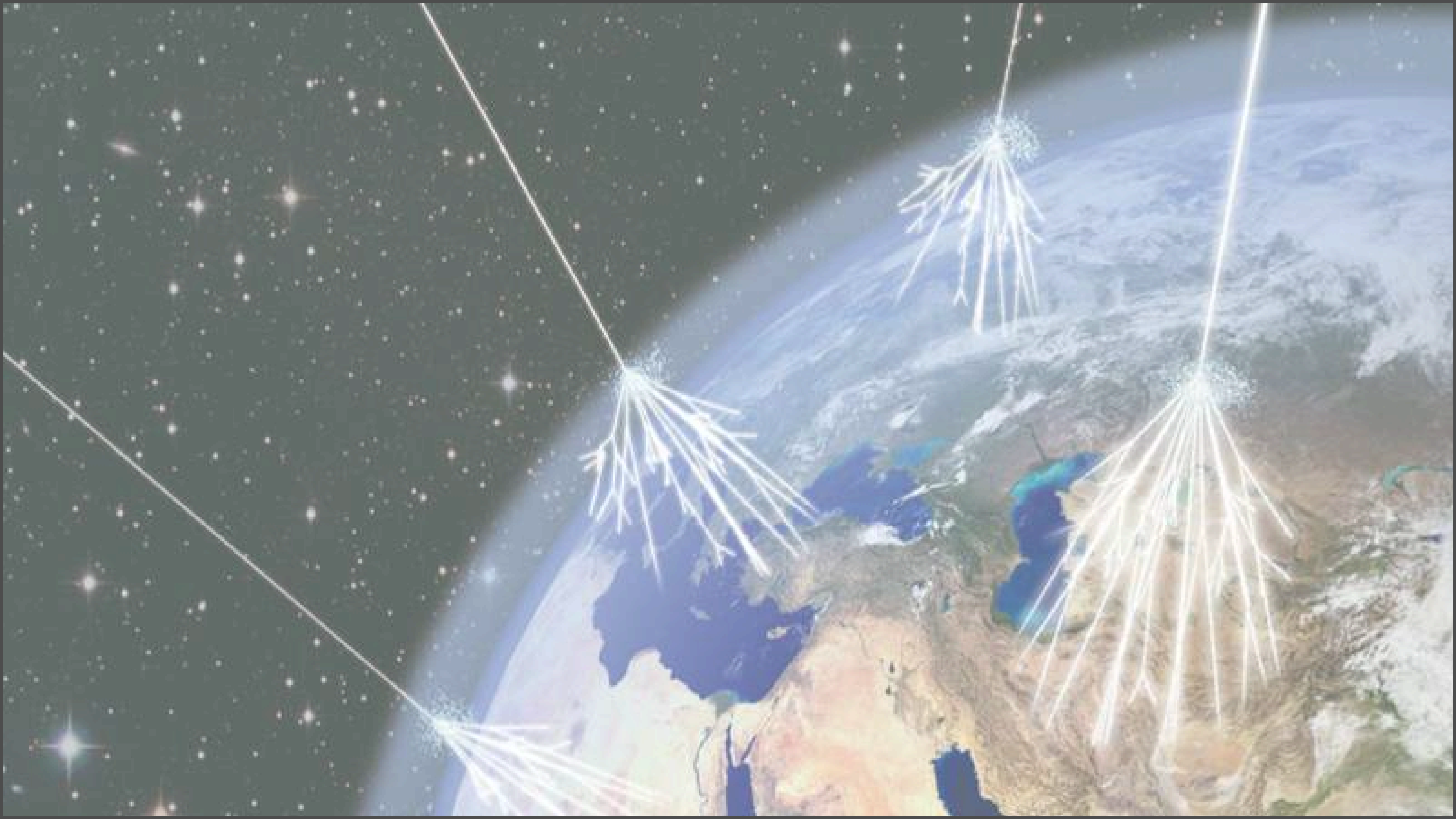




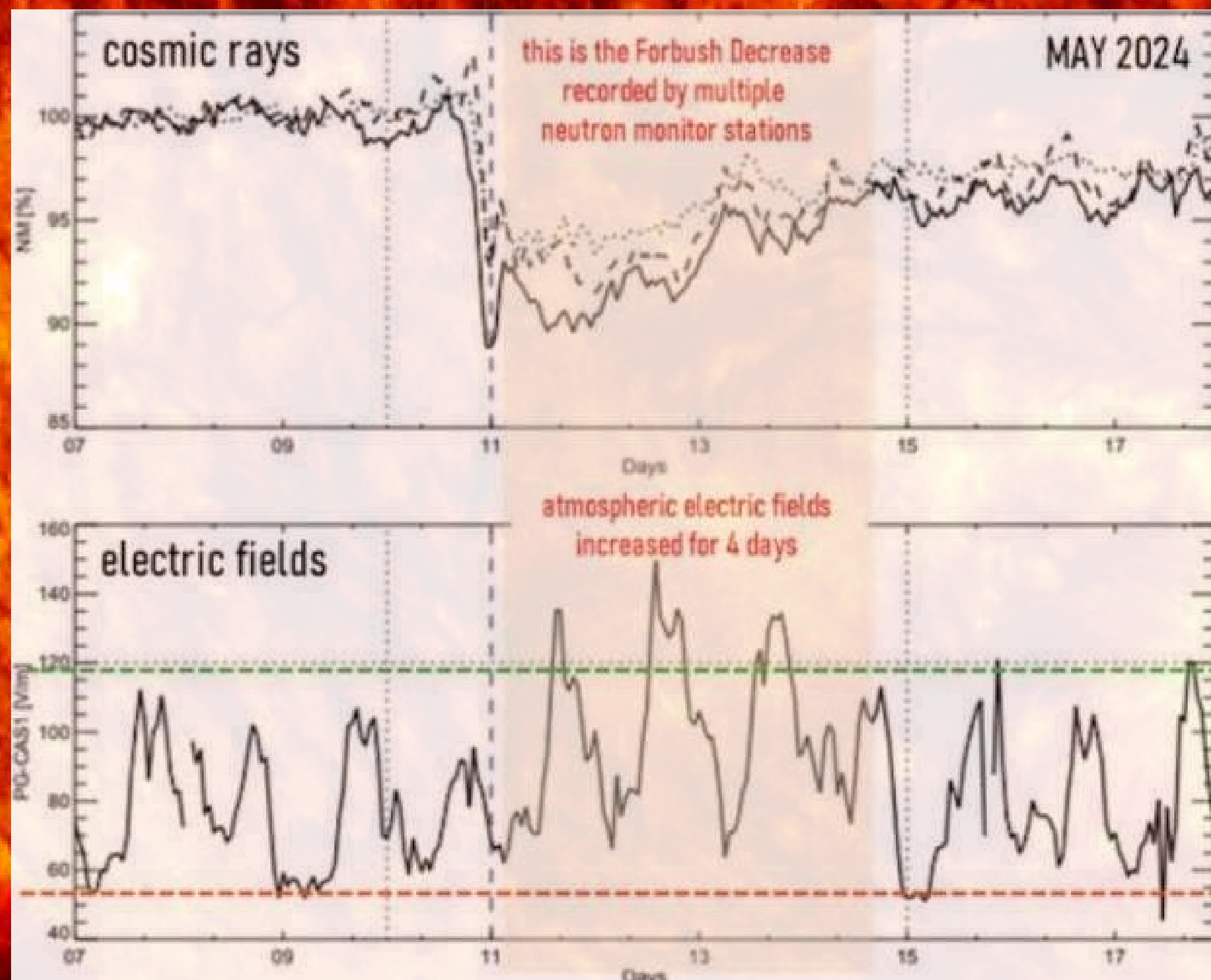
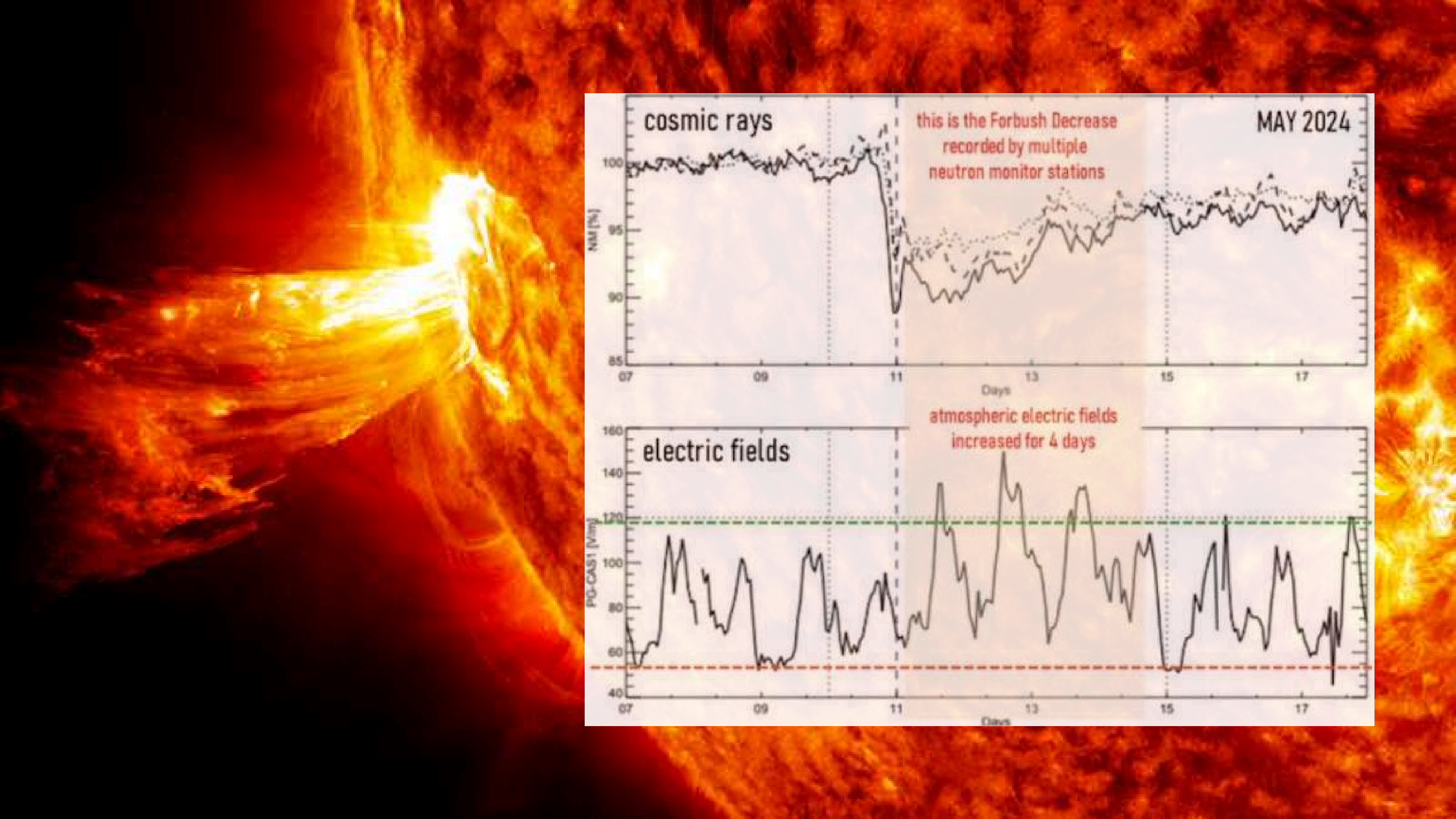




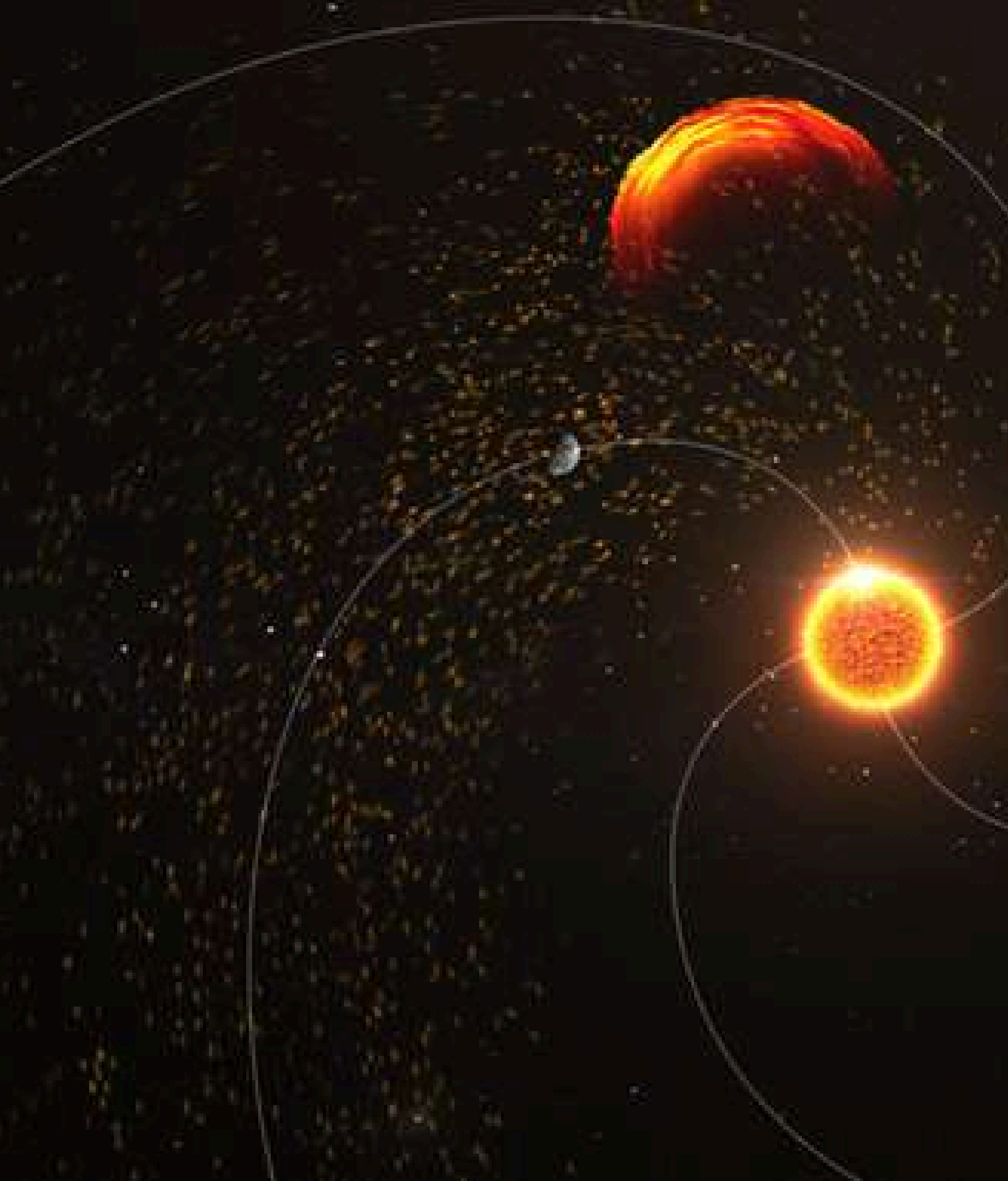






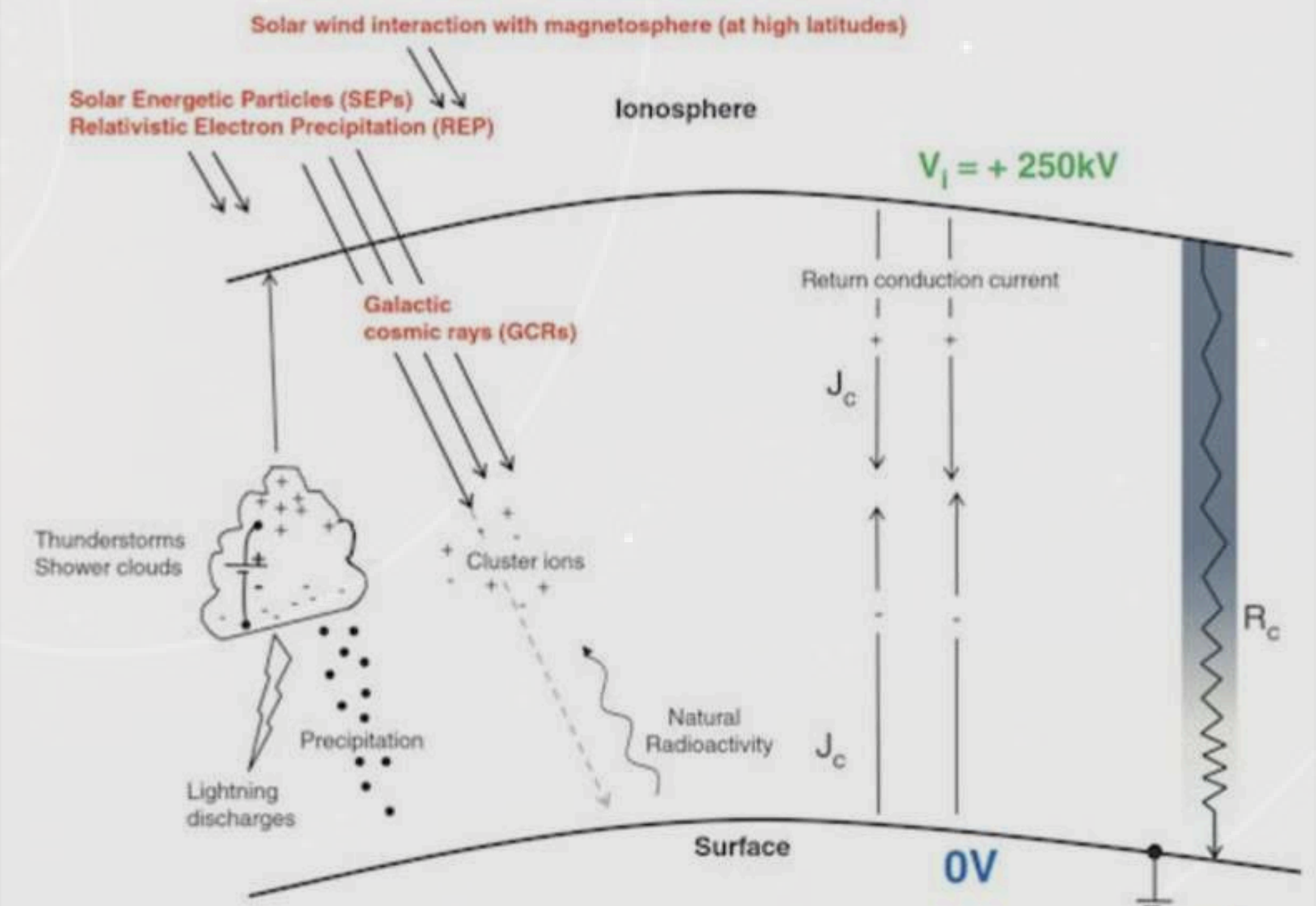






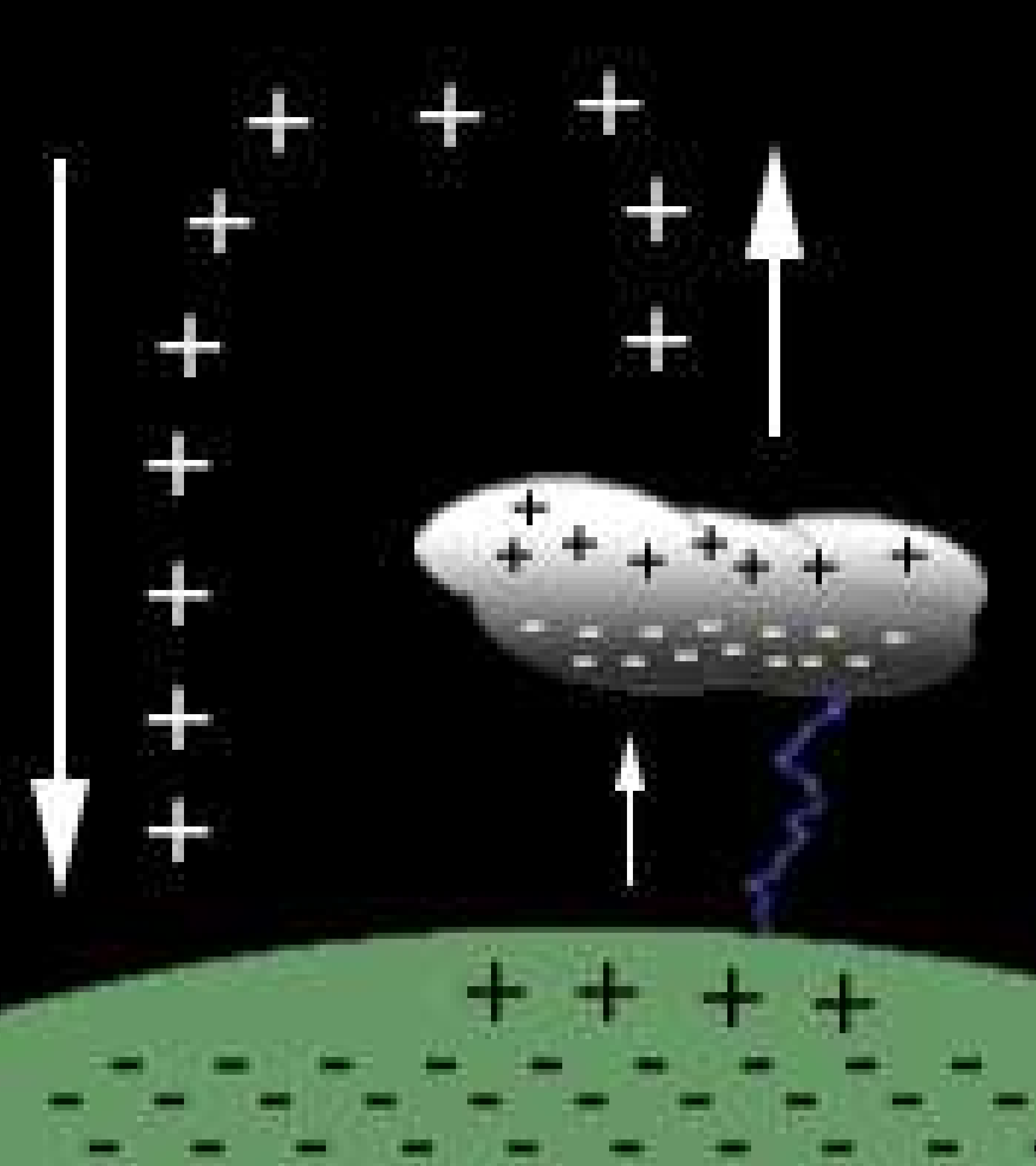
**SUPERSTORM ZAPS THE GLOBAL ELECTRIC CIRCUIT:** The geomagnetic superstorm of May 10, 2024, did more than spark some of the best auroras in [500 years](#). It also electrified our planet.

"Our sensors measured a significant change in atmospheric electricity," reports Prof. Gang Li, a space physicist at the University of Alabama. "Earth's entire global electrical circuit was affected by the storm."

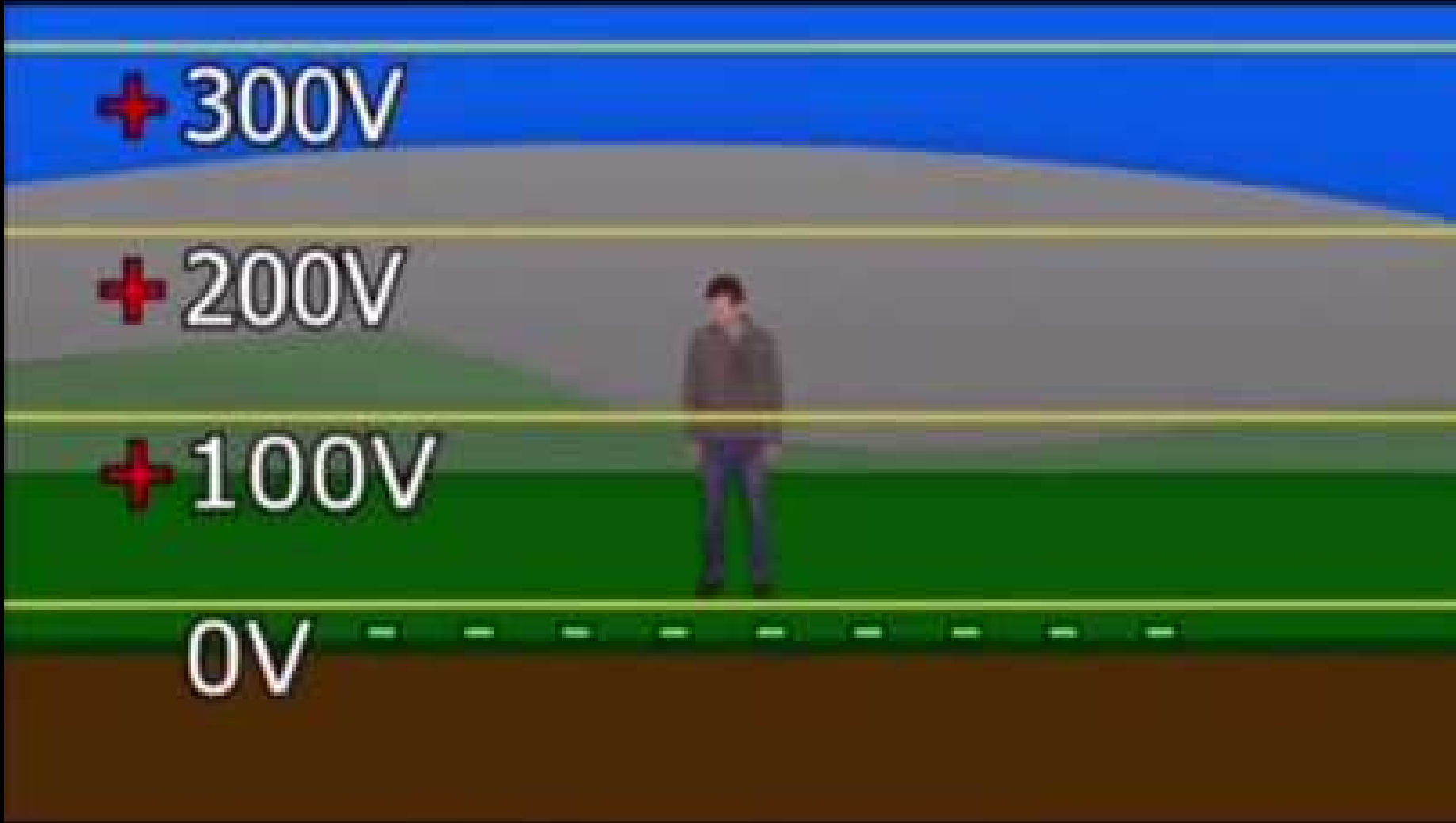


Credit: K. A. Nicoll's 2014 review paper "Space Weather influences on Atmospheric Electricity" [\[ref\]](#)





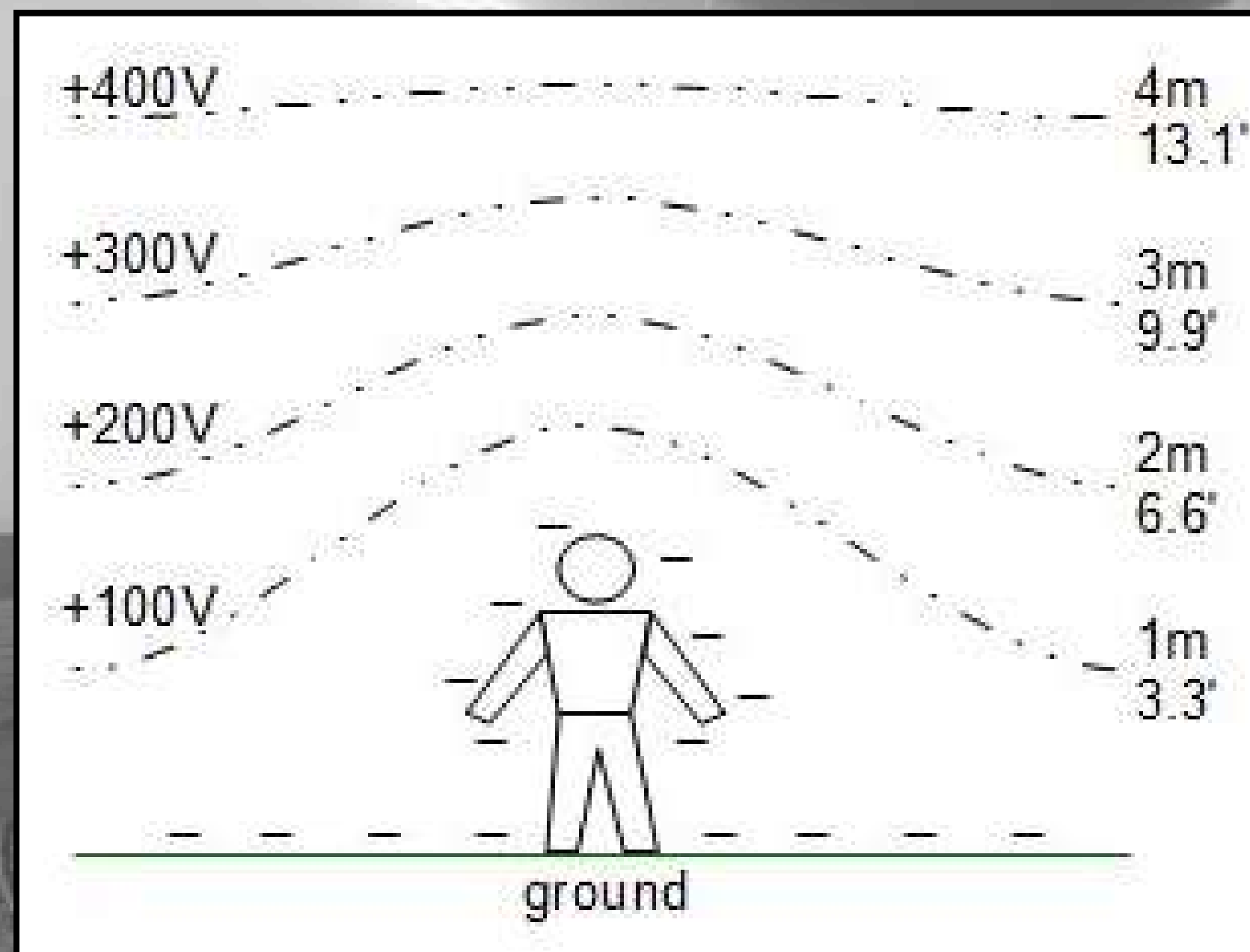
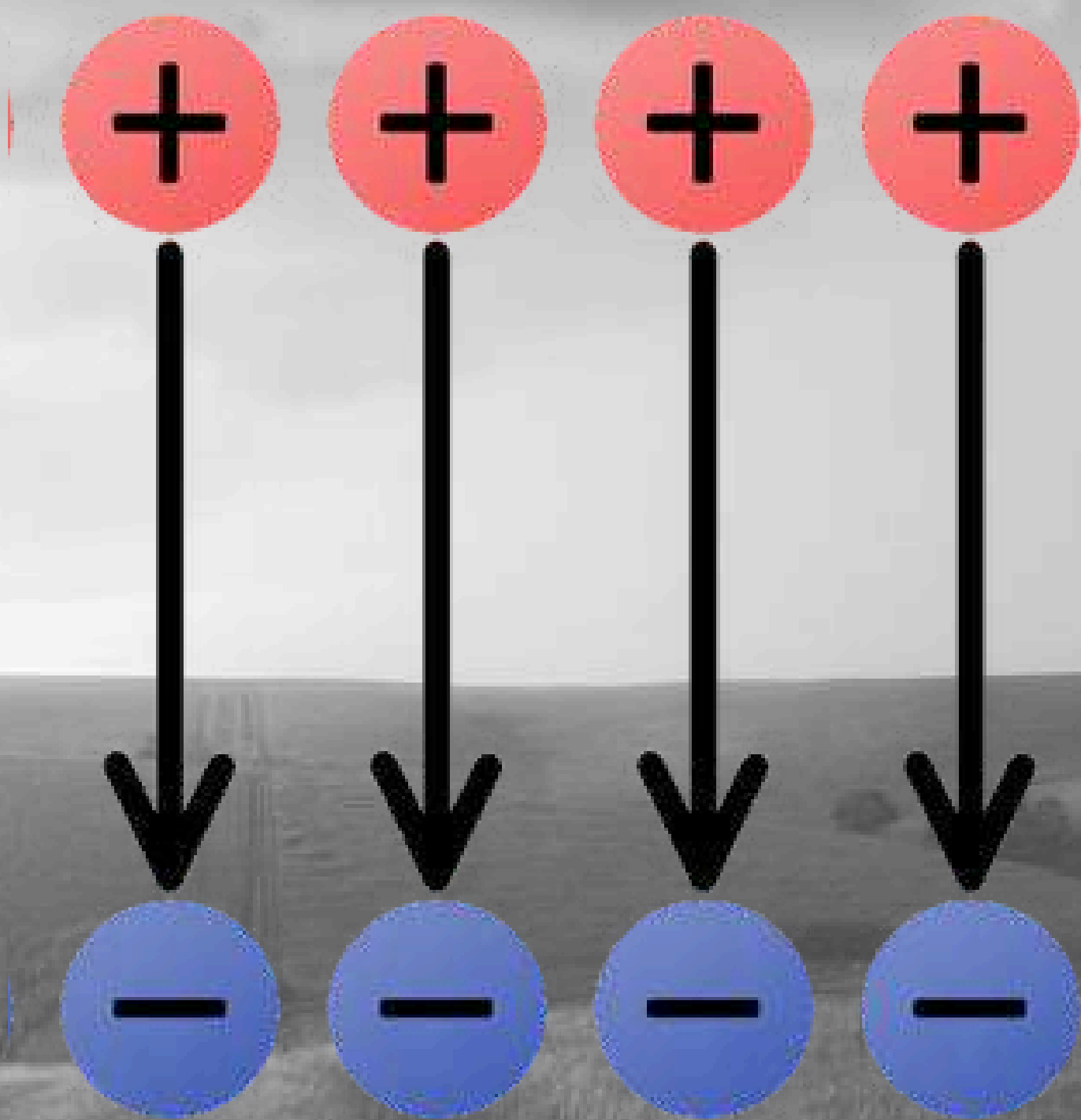
## Atmospheric Electricity



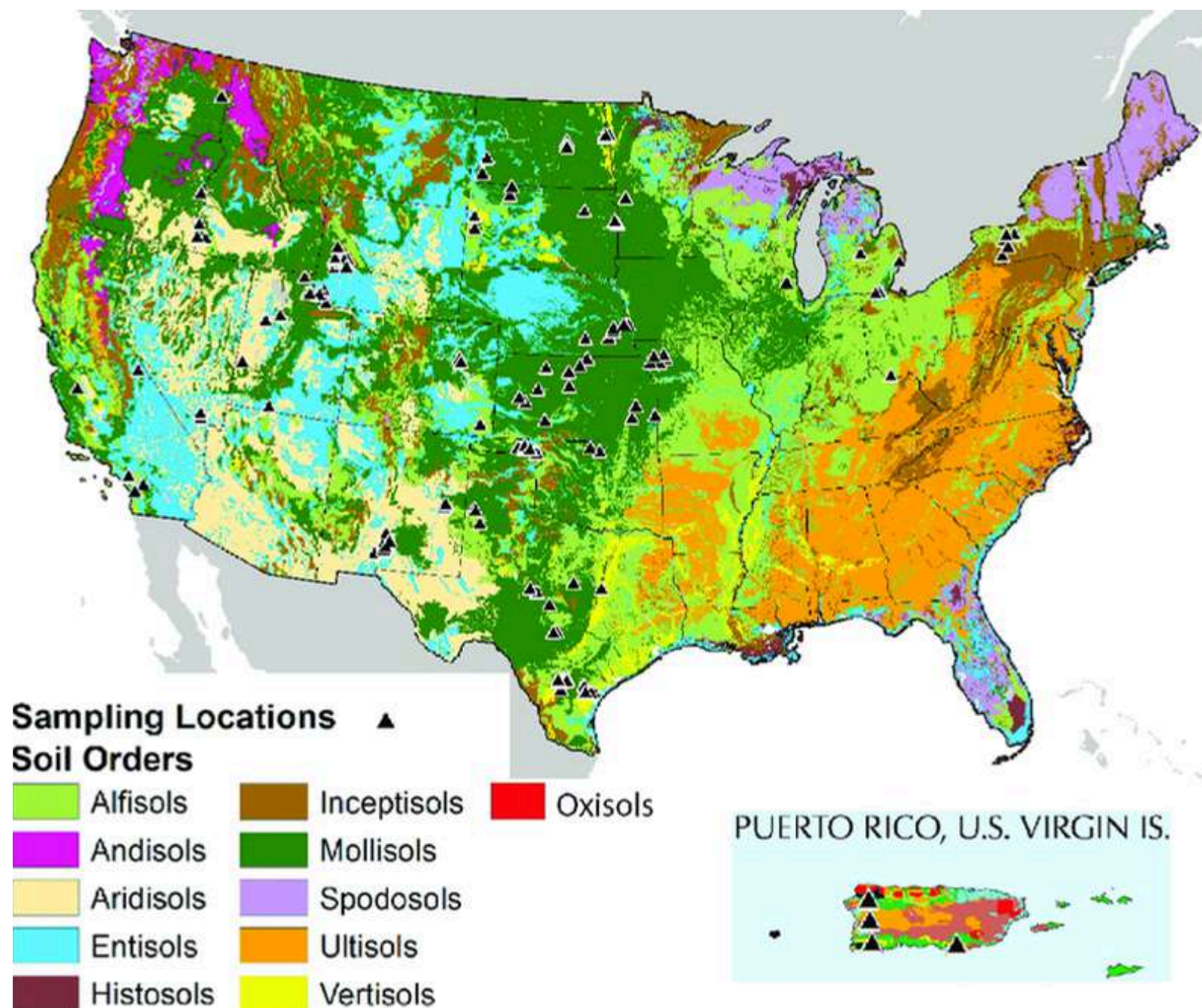
## Explained

Credit: Rimstarorg





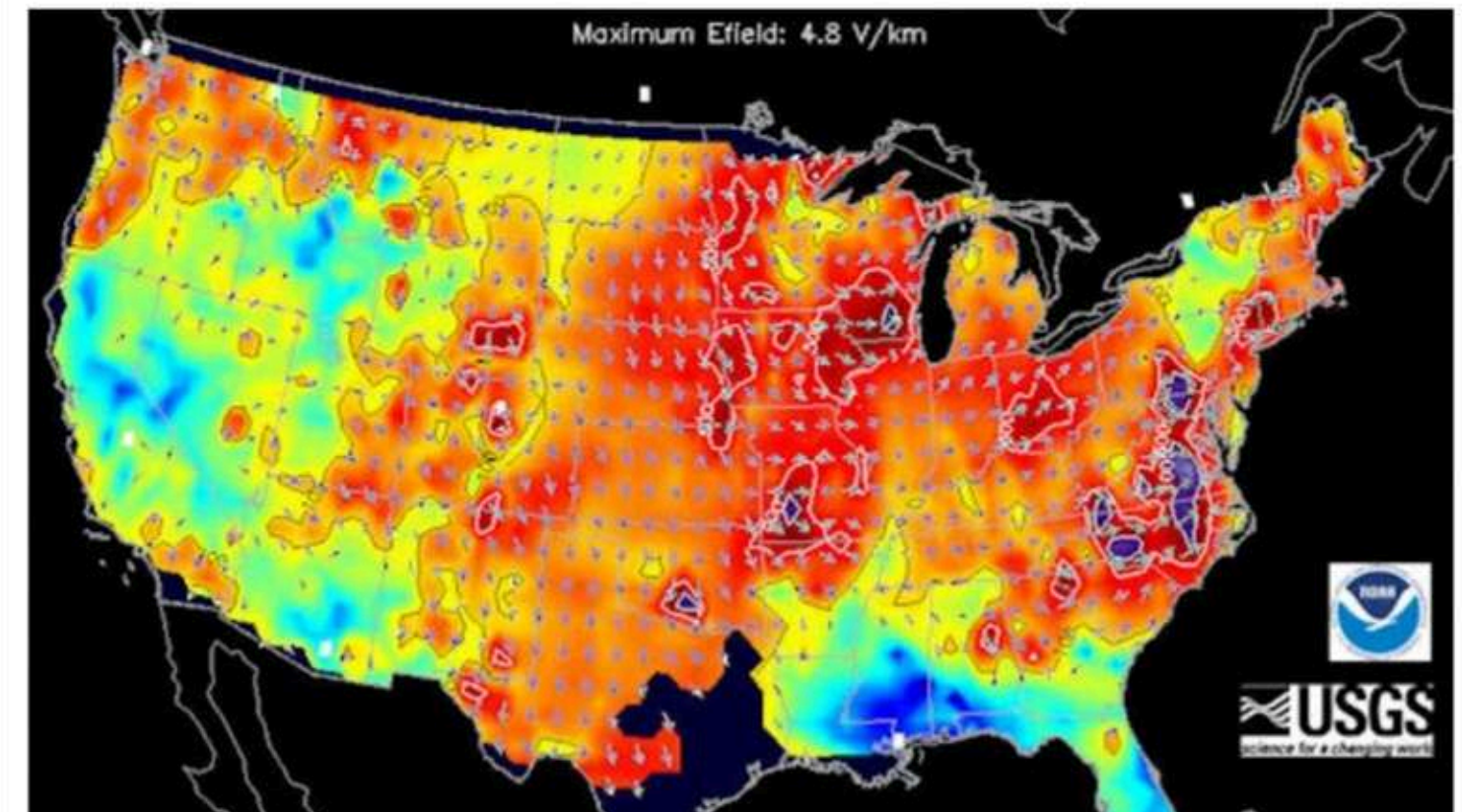




### ROCKS AND SOIL ELECTRIFIED BY THE SUPERSTORM:

Across the USA on May 10th and 11th, sky watchers marveled at bright displays of aurora borealis during the biggest geomagnetic storm in decades. Little did they know, something was also happening underfoot.

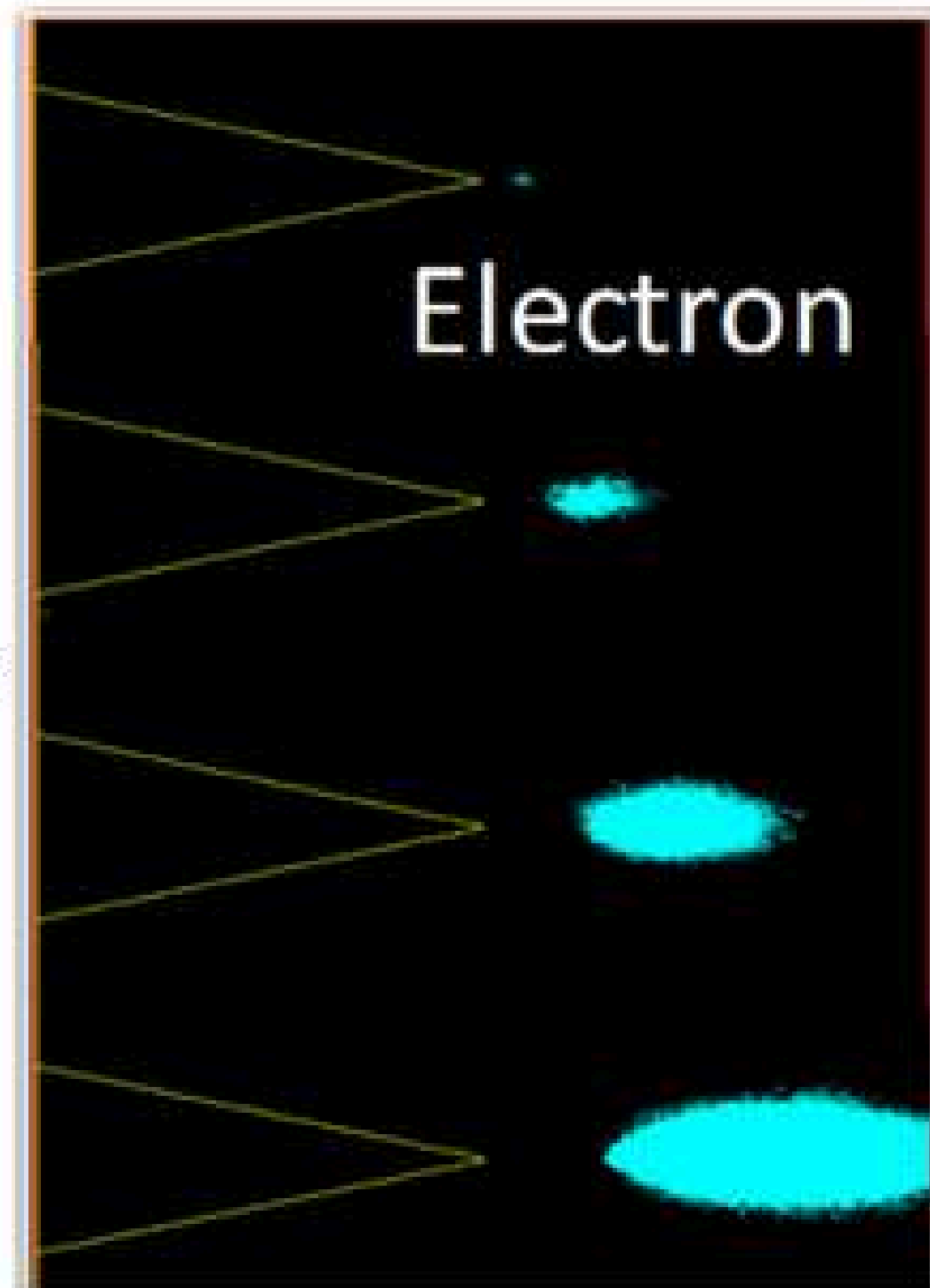
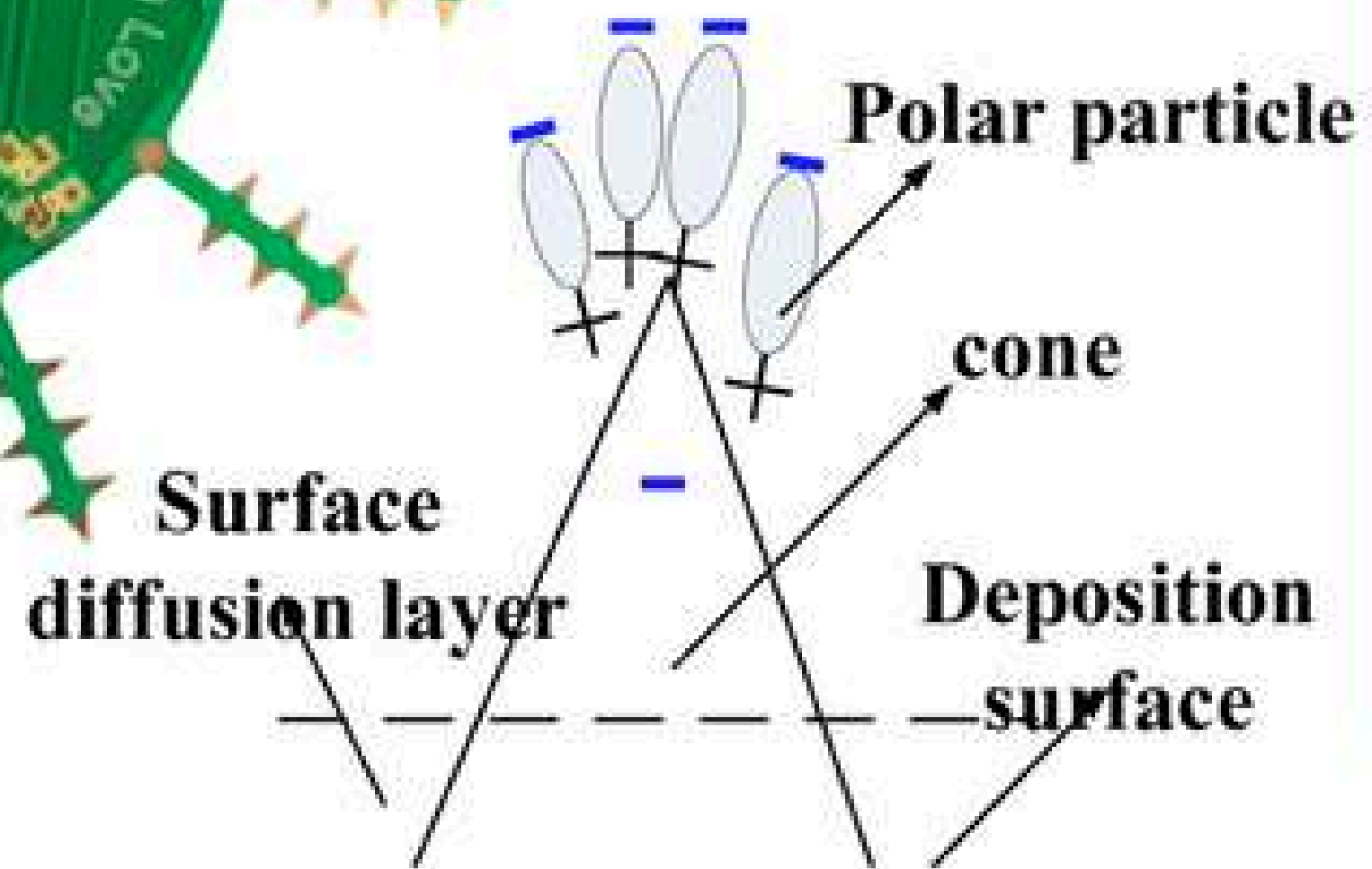
Strong electrical currents were surging through rocks and soil. The biggest voltages along the US eastern seaboard and in the Midwest were as much as 10,000 times normal. A map from NOAA and the US Geological Survey shows some of the 'hot spots' during the early hours of May 11th:



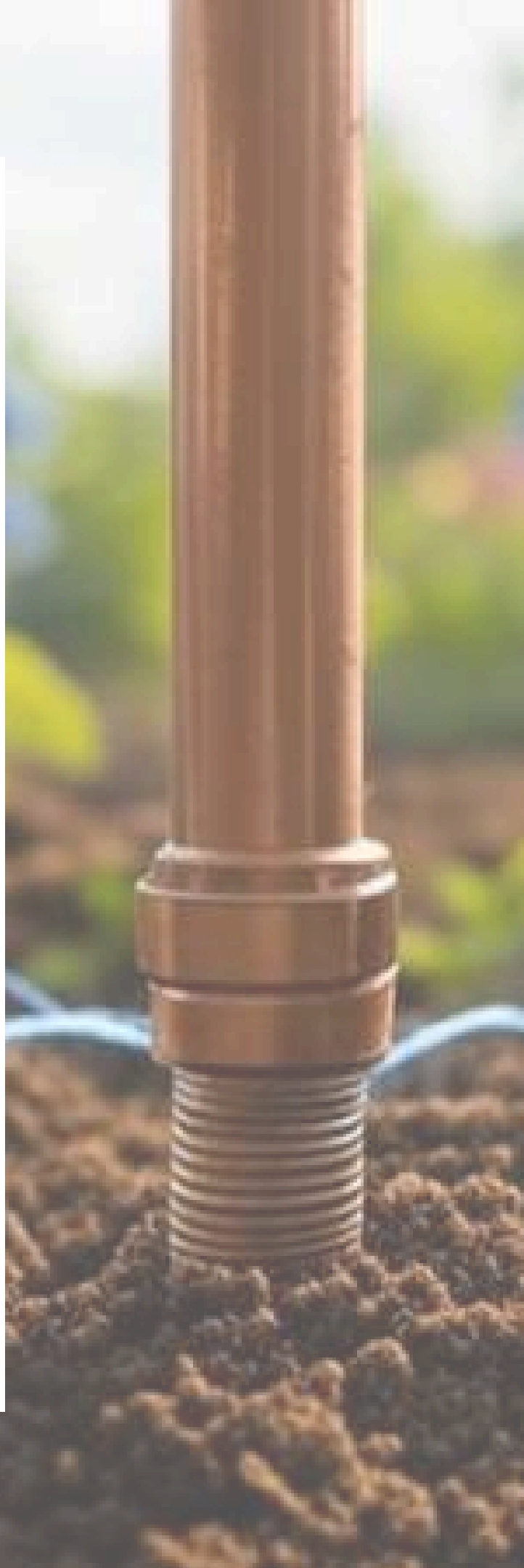
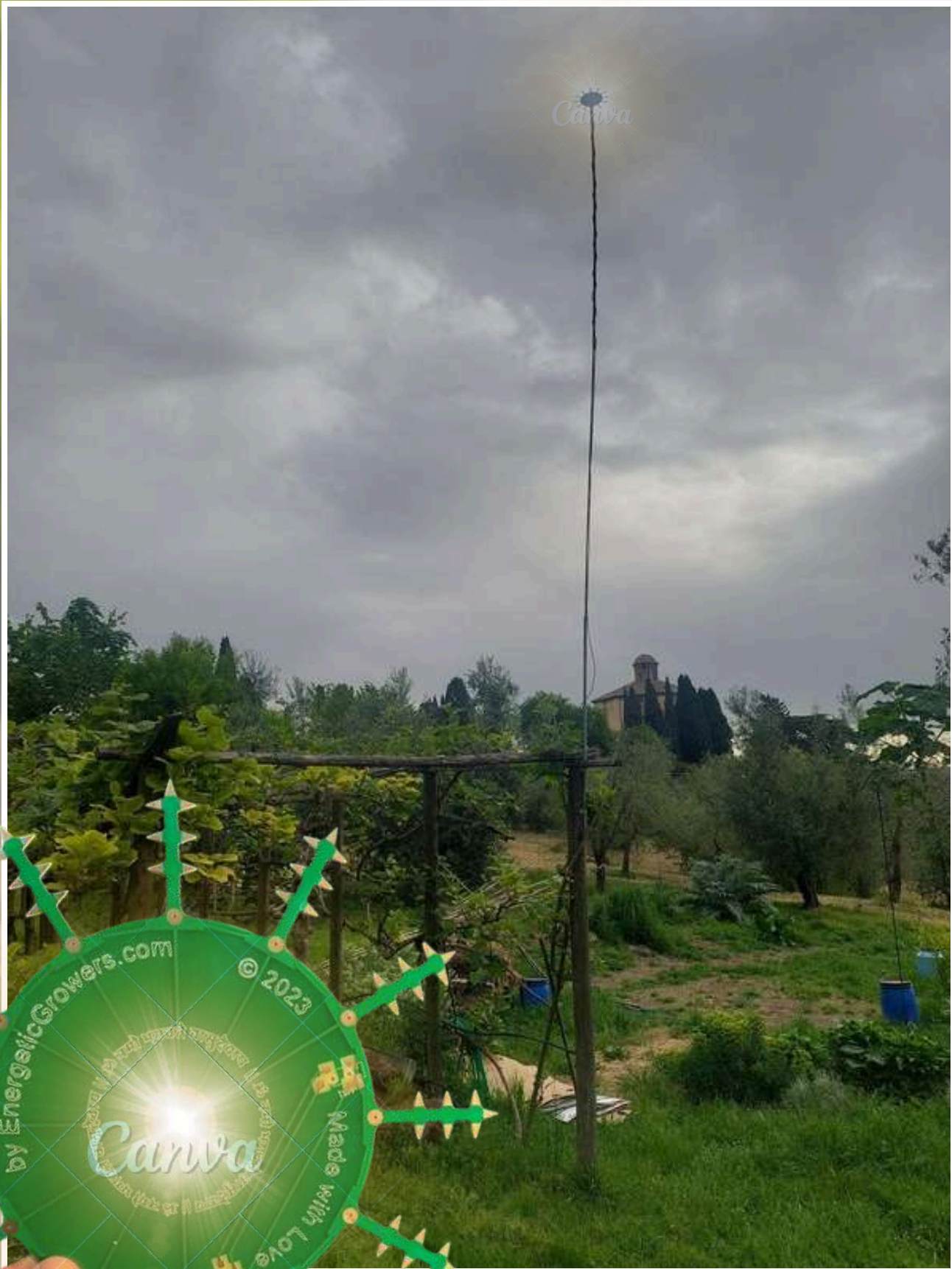








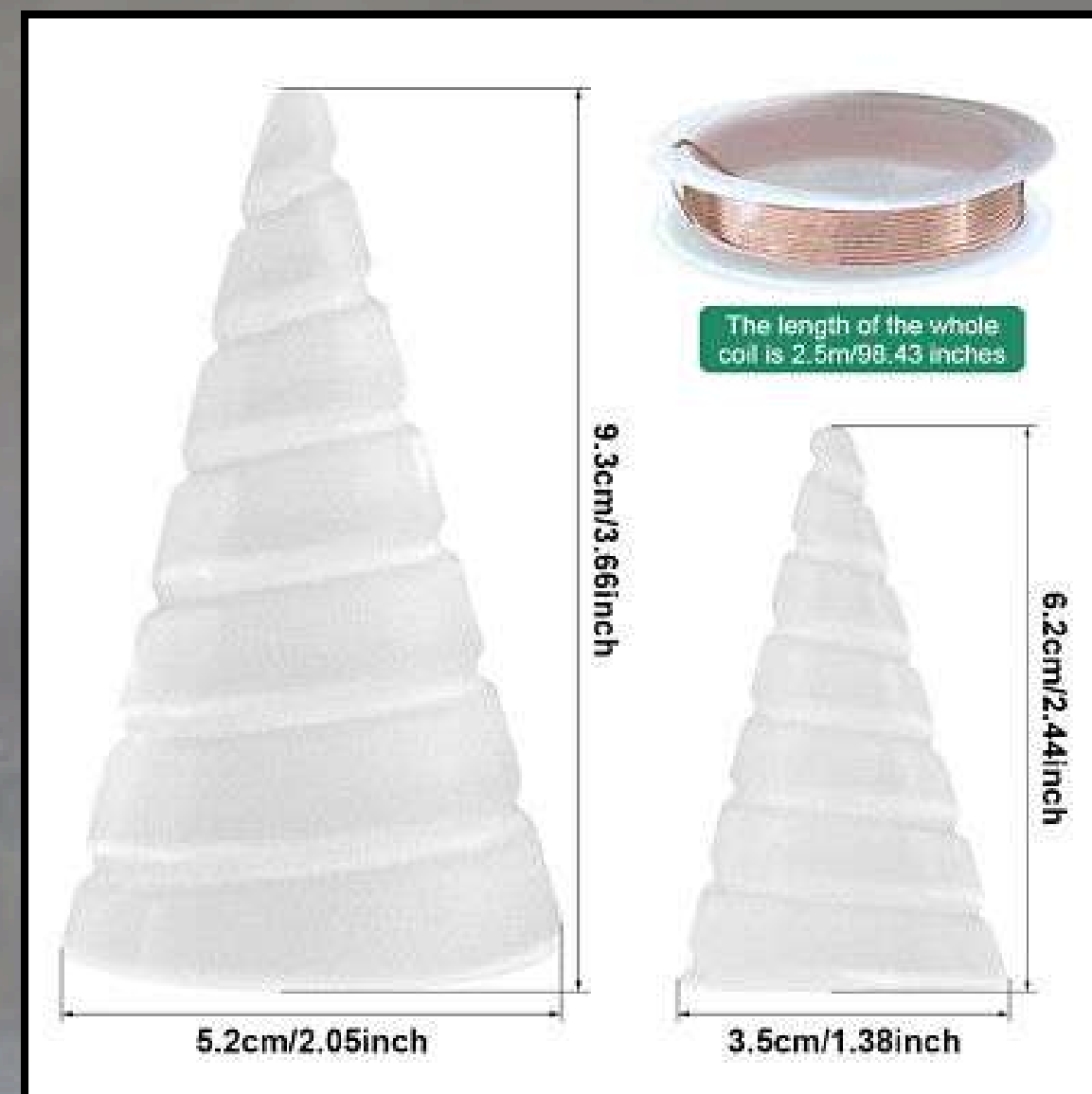
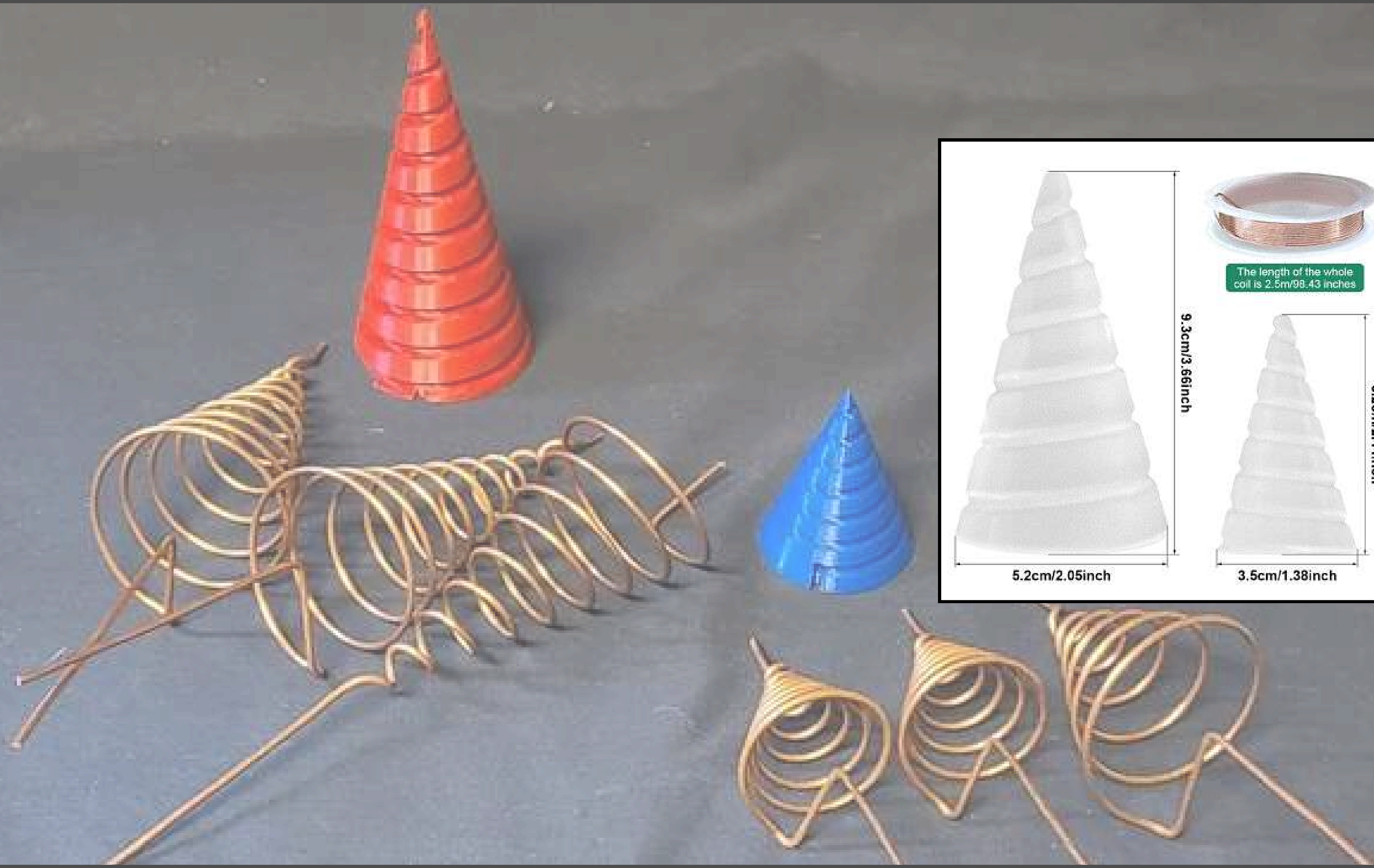














Hey! How are you? Sorry bit of a delay in responding. Message came in when I was getting ready to leave then a whole bunch more messages which required immediate action and it moved down the list to where I couldn't see it. Vineyard is going well, I say that hesitantly as we are not yet to harvest and we know anything can happen between now and then but the organizer of the migrant workers said that he's been told that it looks good, and I should have lots of grapes. This was not necessarily my expectation I figured it would be a slow build up over several years but if he is correct that would be great. He makes me laugh he told me yesterday all I have to do is keep the weeds down, cut the tops if they get too long and then harvest. He makes it sound so simple! So let's see.

11:59

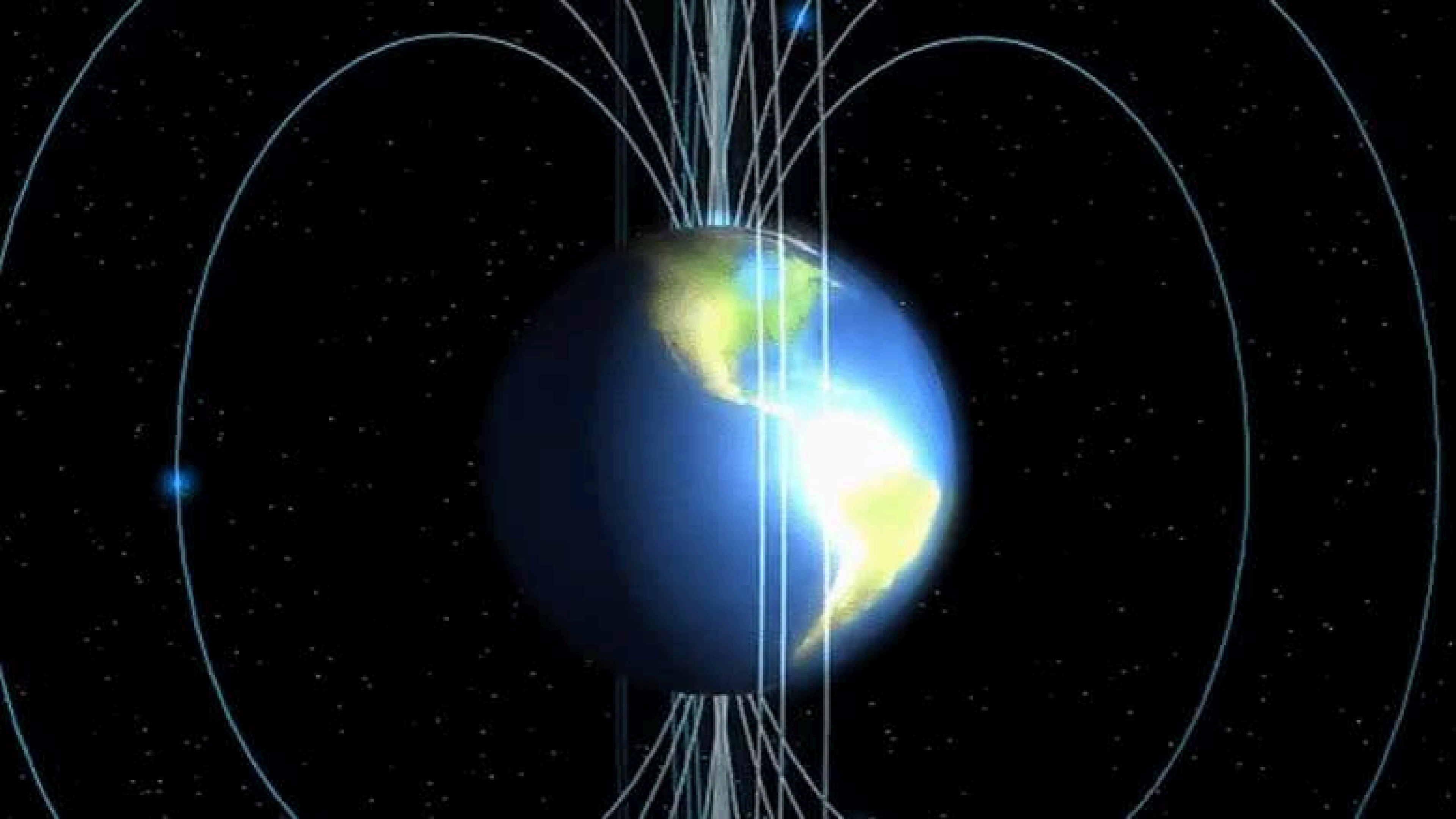


Super informative class, the team (Andrea, Ray & Francesco) were great at answering questions in the sessions and in the whatsapp group and are very knowledgeable and willing to share that knowledge. The whatsapp group was a good addition to interact with others and ask more questions and have discussions. Lots of new books to check out based on suggestions in the class. The additional information sent on pyramids, menir tower building and some examples of supplies were very helpful. I'm excited to implement what I've learned and learn more!

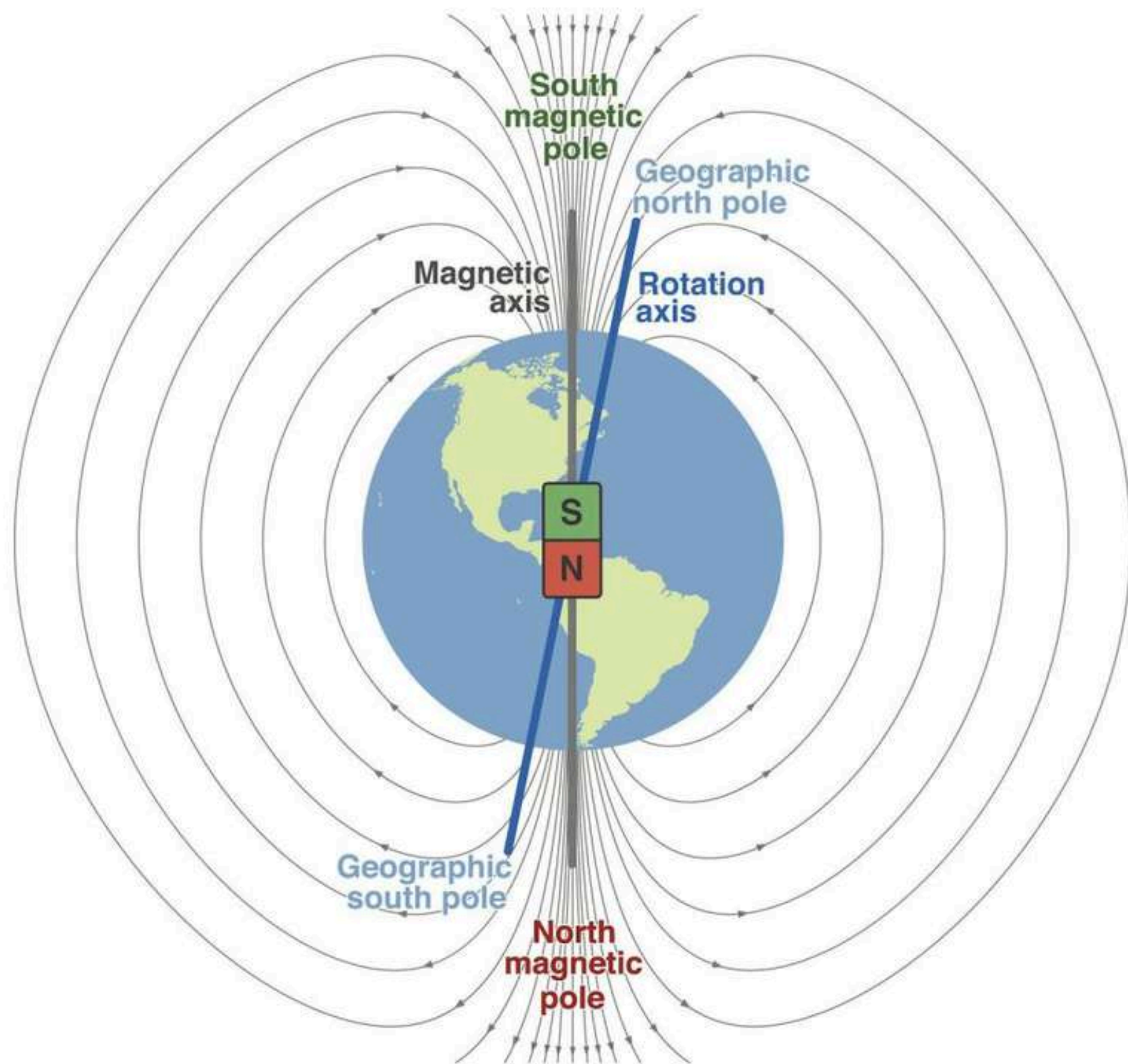
Andrea



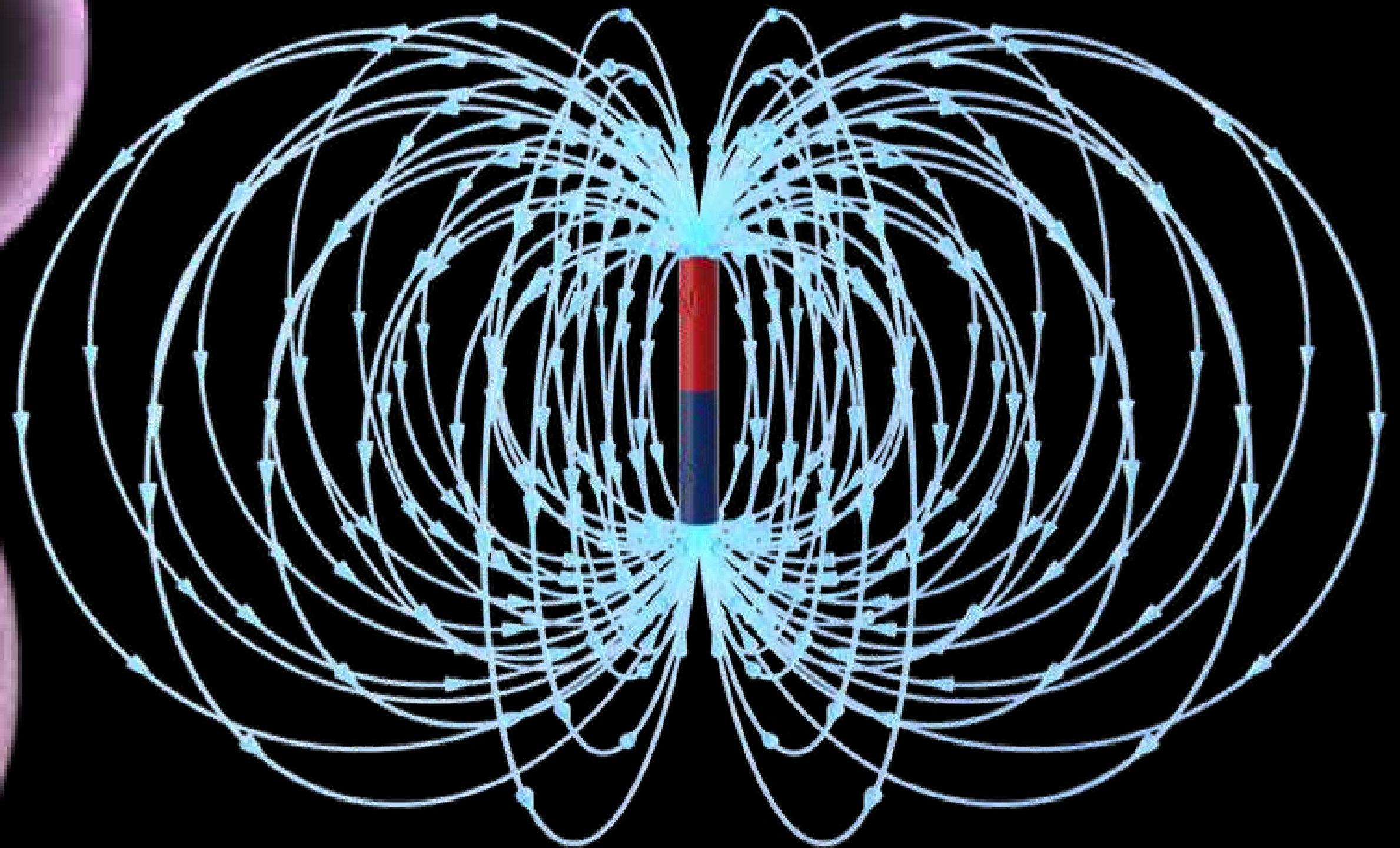














# The Effects of Magnetic Fields on Plants Growth: A Comprehensive Review

August 2018 · *International Journal of Food Engineering* 5(1):79-87

DOI:10.18178/ijfe.5.1.79-87

Download full-text PDF



Quantitative Biology > Quantitative Methods

arXiv:2211.09240 (q-bio)

[Submitted on 18 Nov 2022]

## Stimulation of soy seeds using environmentally friendly magnetic and electric fields

Agata Dziwulska-Hunek, Agnieszka Niemoczynowicz, Radosław A. Kycia, Arkadiusz Matwijczuk, Krzysztof Kornarzyński, Joanna Stadnik, Mariusz Szymanek

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### Magnetic field effects on plant growth, development, and evolution

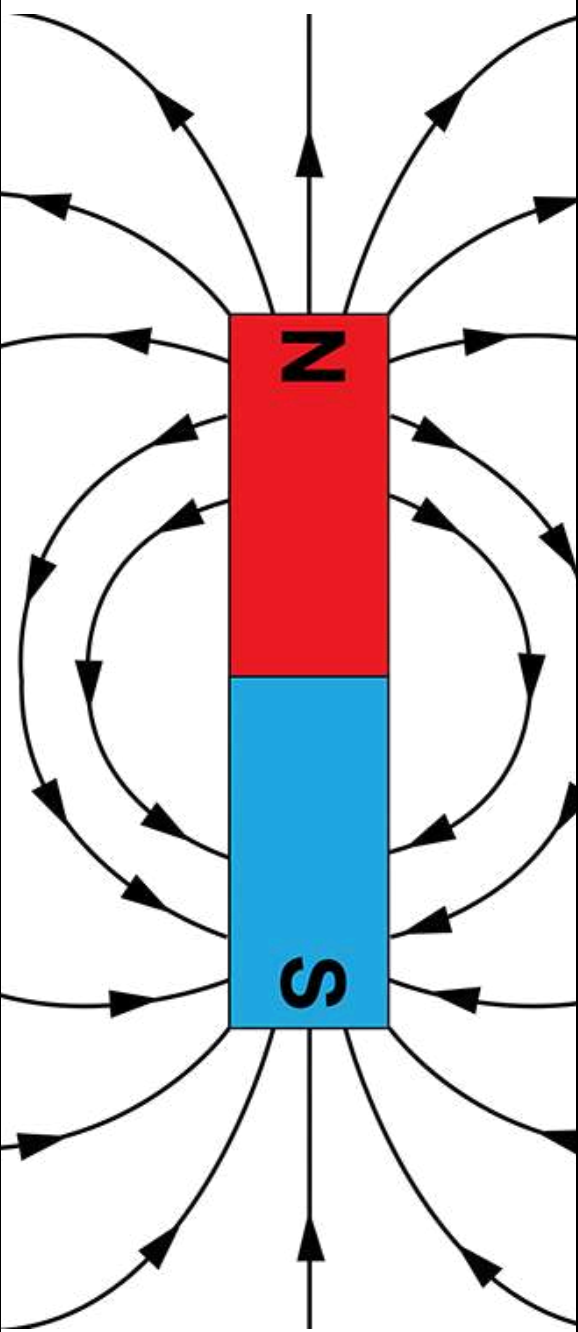
Massimo E Maffei <sup>1,\*</sup>

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PMCID: PMC4154392 PMID: [25237317](https://pubmed.ncbi.nlm.nih.gov/25237317/)

#### Abstract

The effects of magnetic fields on plant growth, development, and evolution have been studied for many years. The present review summarizes the current knowledge on this topic, focusing on the effects of static and pulsed magnetic fields on plant growth, development, and evolution. The review is organized into three main sections: (1) the effects of static magnetic fields on plant growth, development, and evolution; (2) the effects of pulsed magnetic fields on plant growth, development, and evolution; and (3) the effects of magnetic fields on plant growth, development, and evolution in combination with other environmental factors. The review concludes that magnetic fields can have both positive and negative effects on plant growth, development, and evolution, depending on the intensity, duration, and frequency of the field.



Physics > Biological Physics

arXiv:2303.00512 (physics)

[Submitted on 1 Mar 2023]

## Static magnetic field stimulates growth of maize seeds

Lucas M. Ferroni, Moira I. Dolz, María Florencia Guerra, Leonardo Makinistian

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Journals / Seeds / Volume 2 / Issue 4 / 10.3390/seeds2040030

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### Pre-Sowing Static Magnetic Field Treatment of Vegetable Seeds and Its Effect on Germination and Young Seedlings Development

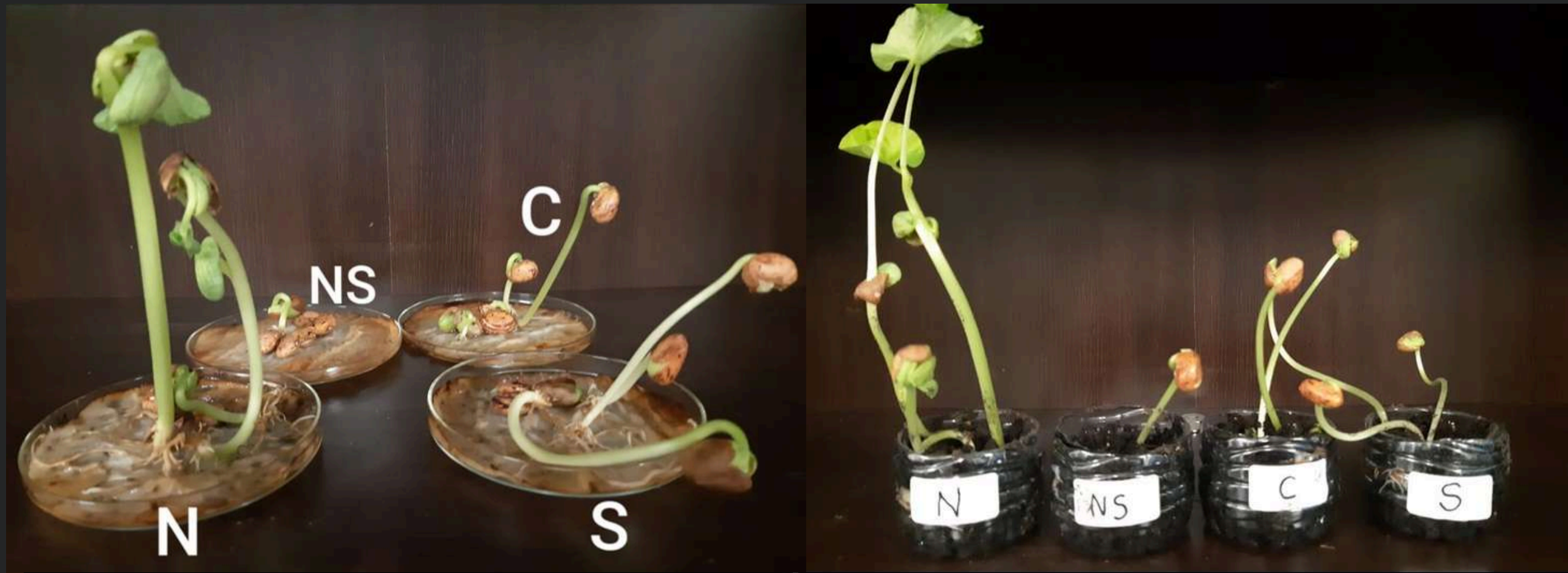
The present study aimed to evaluate the effect of a static magnetic field (SMF) on the germination and young seedlings development of vegetable seeds. The seeds were treated with a SMF of 100 mT for 24 h before sowing. The results showed that the SMF treatment significantly increased the germination rate and the growth of young seedlings compared to the control group. The SMF treatment also increased the root length and the shoot length of the young seedlings. The results suggest that the SMF treatment can be used as a non-chemical method to improve the germination and growth of vegetable seeds.





Charlotte Frea

March 12 · 🌐



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21.8K post reach >

  566

61 comments 88 shares

 Like

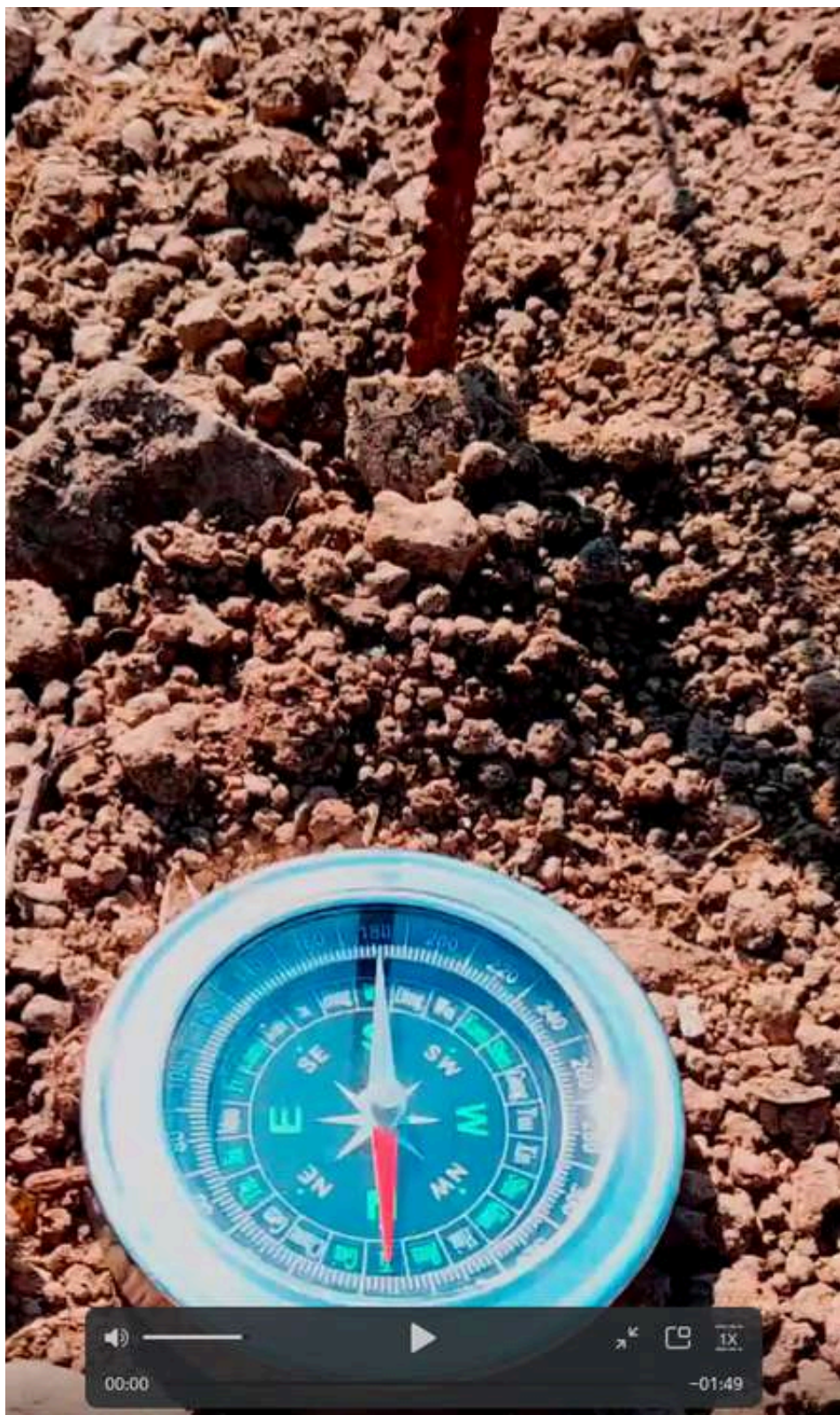
 Comment

 Share

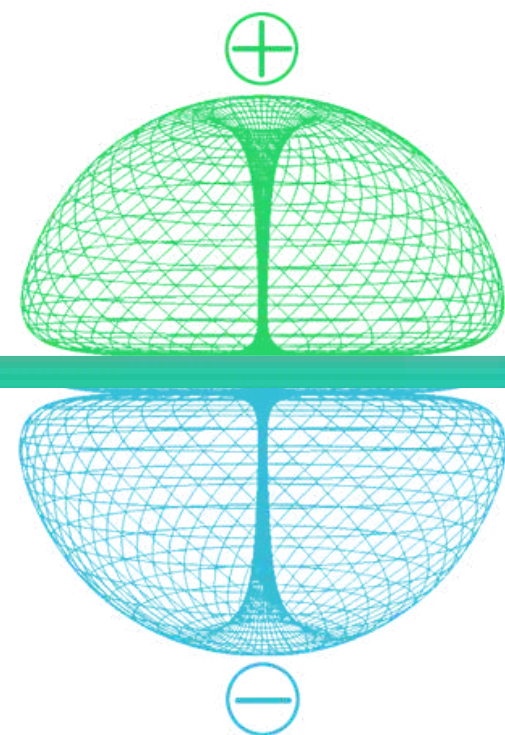










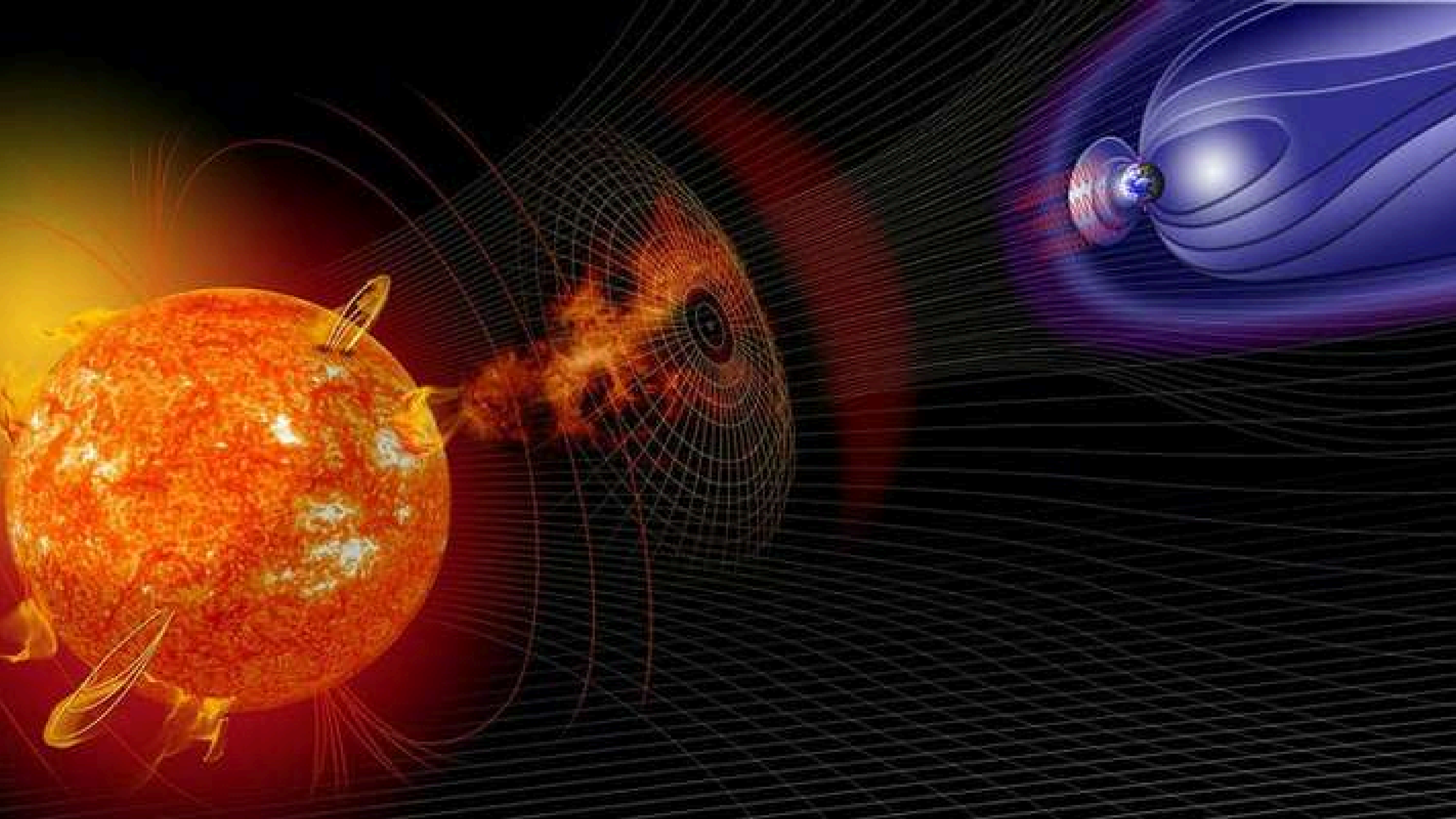




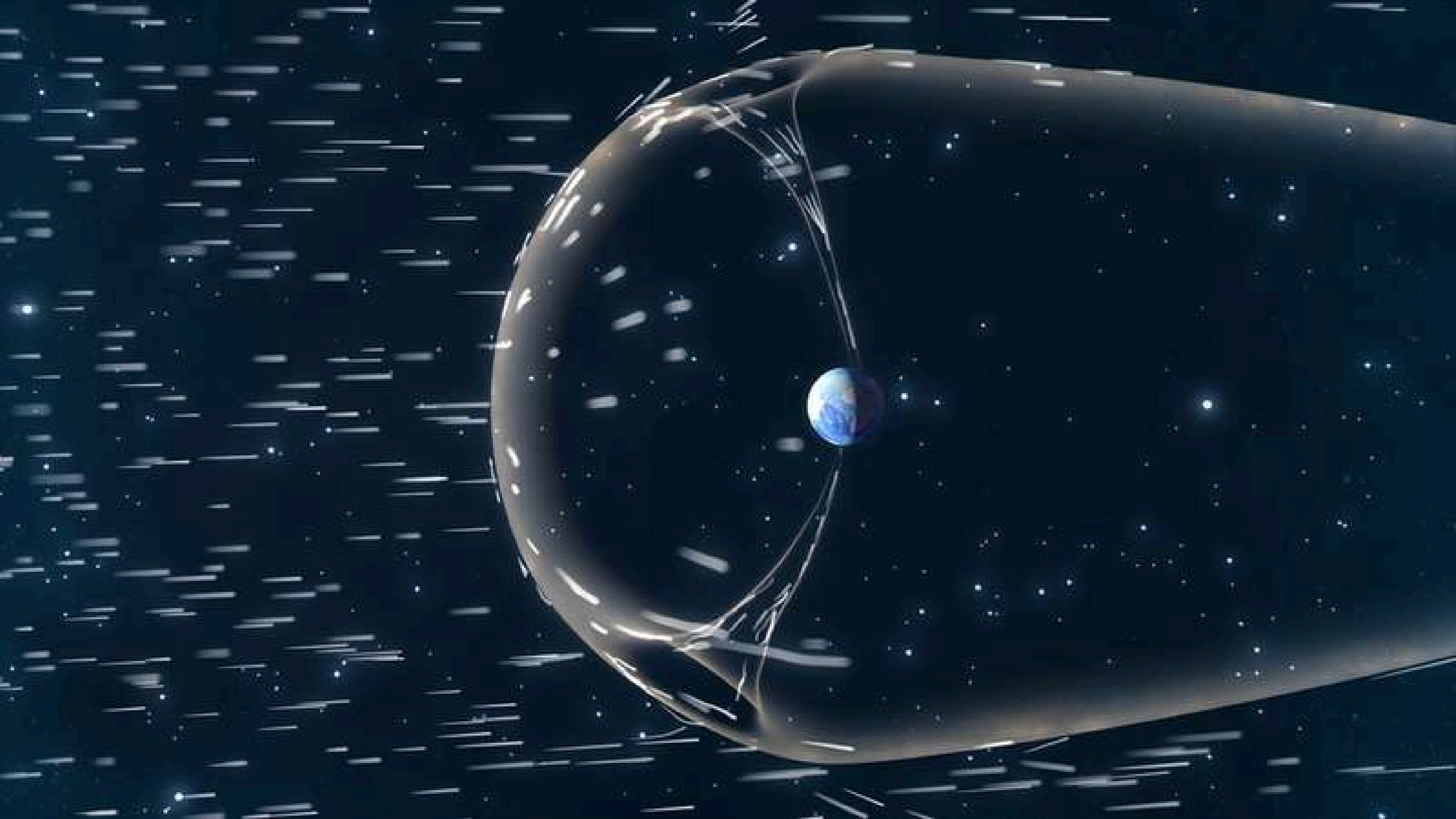


***Ailanthus altissima* are extremely resilient pioneer trees - people work very hard to eradicate these trees near roads and foundations**







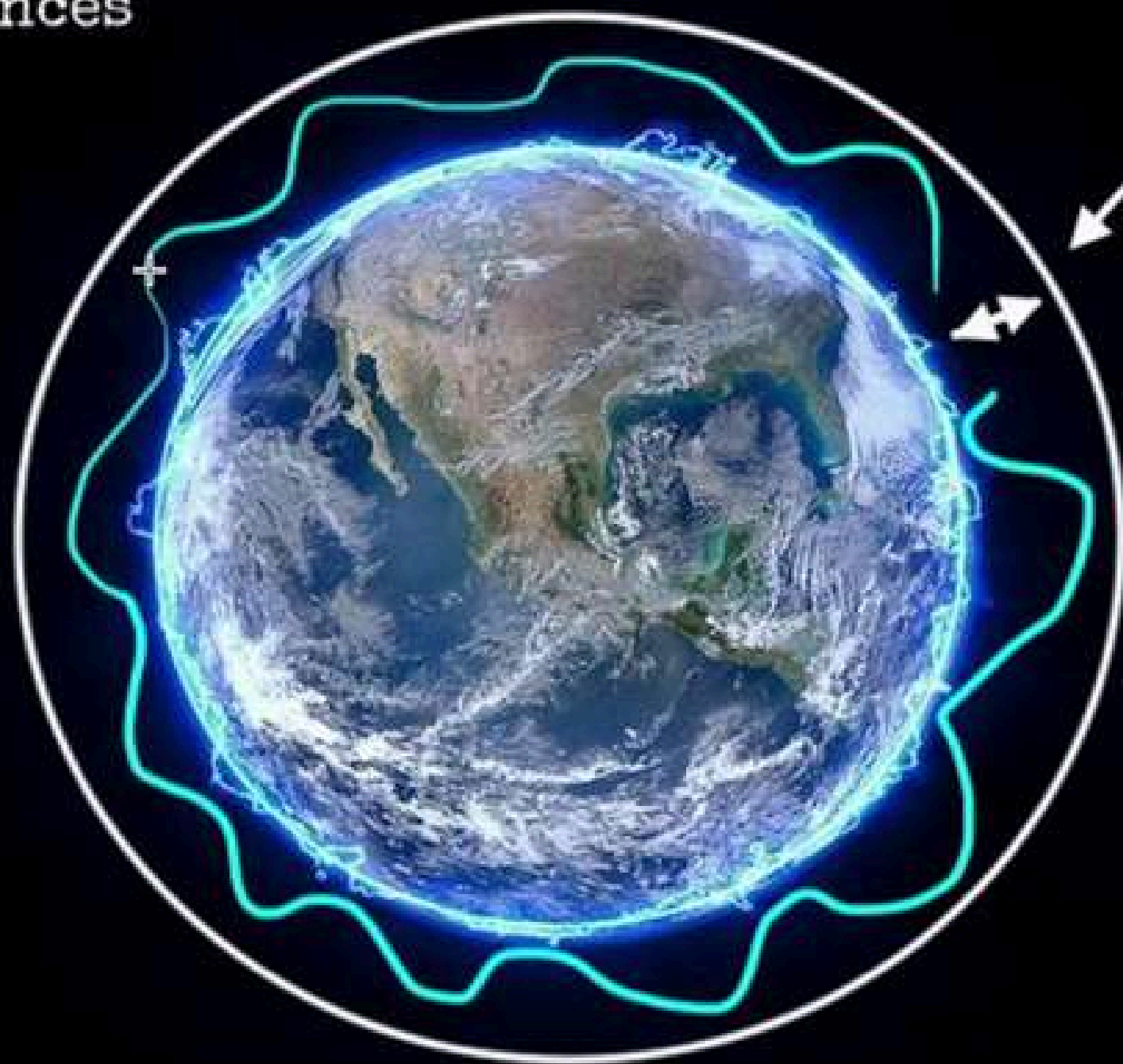




## Schumann Resonances

Occur in Earth's  
'electromagnetic  
cavity'

Electromagnetic  
fields are  
'excited'  
in this space



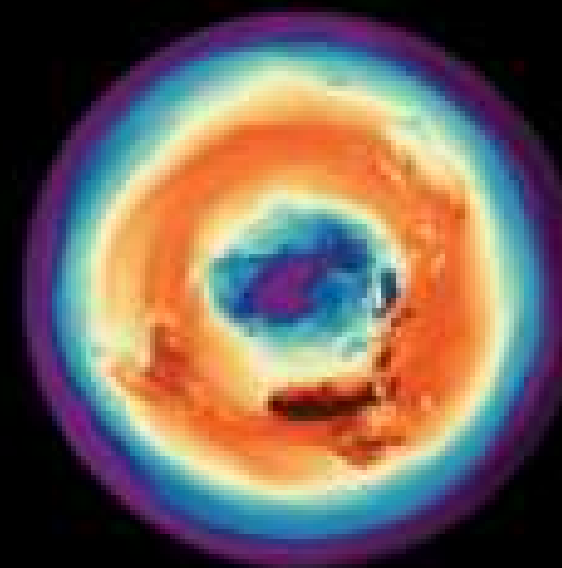
Earth's EM 'cavity'

From the surface  
to

55 kilometers  
(34 miles)

Not to Scale

WEATHER PATTERNS



CYMATIC PATTERNS













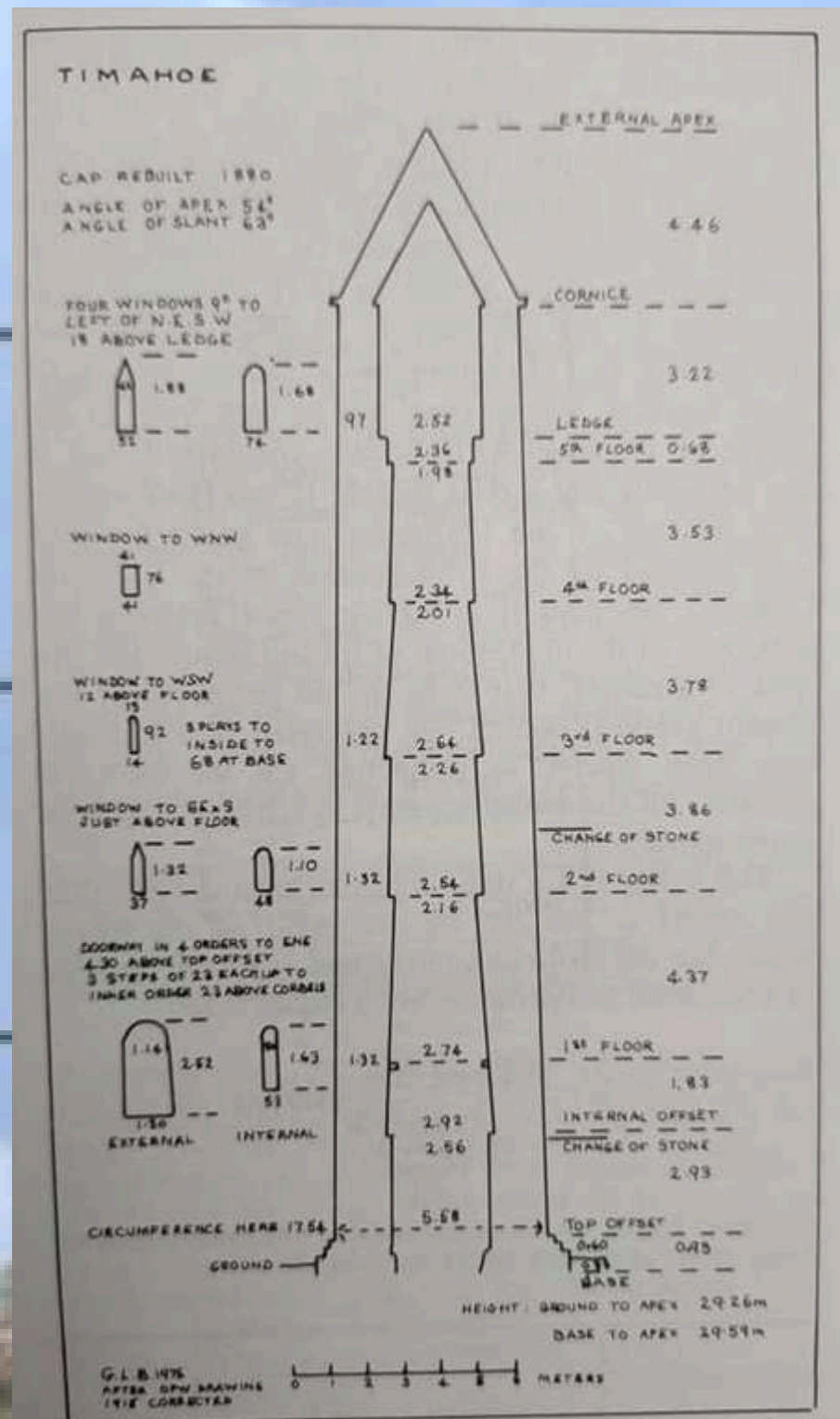
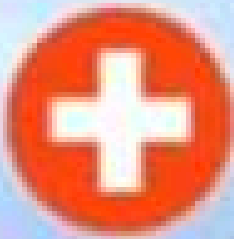
20 m / 2 000 Volts

15 m / 1 500 Volts

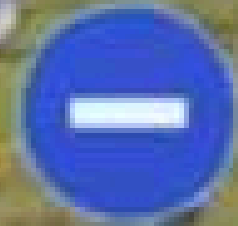
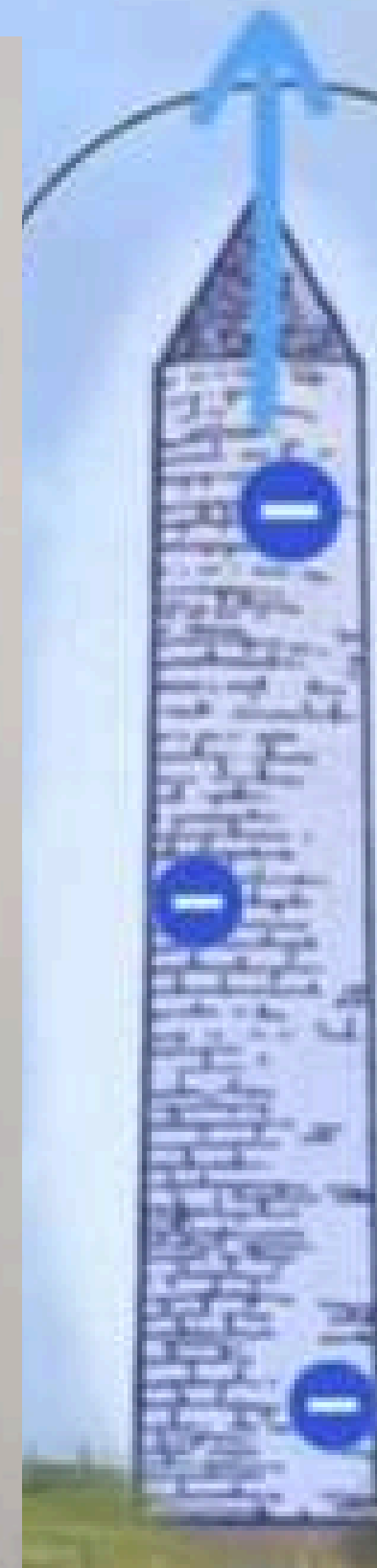
10 m / 1 000 Volts

5 m / 500 Volts

0m / 0 Volt



good deal of the same buff sandstone as the upper but  
is mainly limestone whereas above the line of change

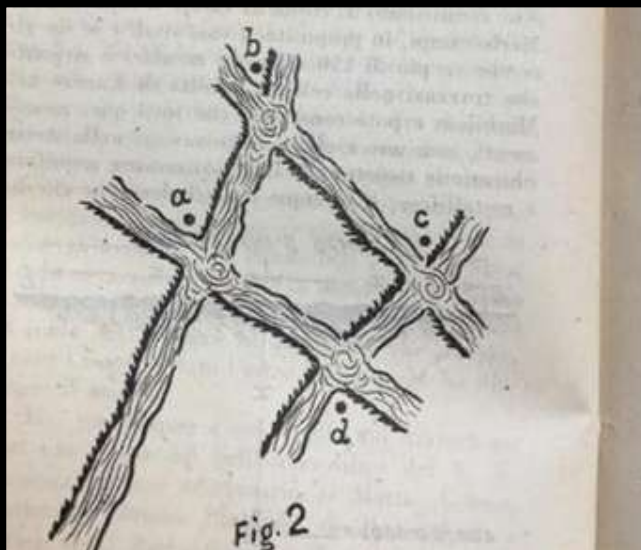
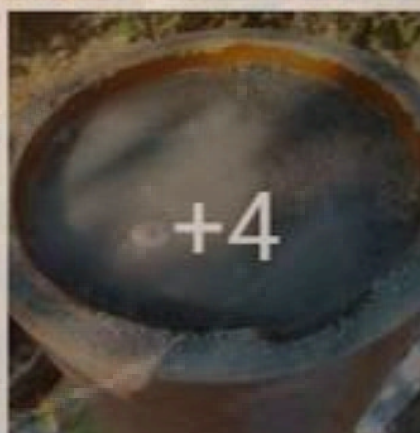






Richard Humbert shared a post.

18 hrs · 🌐



Qualsiasi corso d'acqua o qualsiasi filone di minerale sotterraneo manifestano la loro presenza ai due lati del corso d'acqua, o del filone medesimo, per una distanza uguale alla profondità cui essi si trovano (fig. 1). La Zona A B che è = 2 x, rappresenta appunto il campo o zona d'influenza. Più avanti vedremo come questo ci serva per stabilire la profondità delle acque o dei minerali che vogliamo trovare. Nel caso dei monumenti megalitici studiati dal Merle essi, come ho detto, si trovano ai vertici degli angoli formati dai corsi d'acqua (fig. 2) precisamente ai margini



















Back in the main garden, a small wooden pyramid yield grew all these potatoes!



The picture above is the year 2006 - the first growing season using the pyramid only a 20 square food growing area. The picture below shows the incredible abundance a few months later. Traditionally, whatever Charles plants at one of the corners has the highest yield. For instance, one potato plant usually yielding 4-5 potatoes has been found to average a yield 40-50 potatoes. Now (in 2011) in use for many years the yield of planting one potato in the corners up to an average of 80!

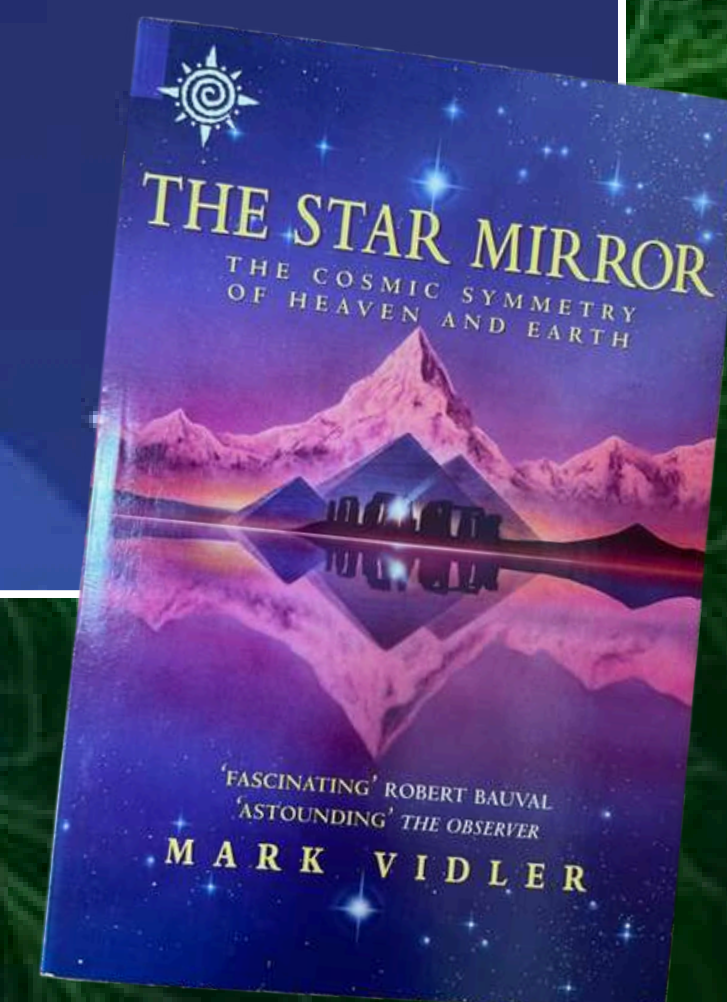


<https://youtu.be/4vgvUnDxfnE>

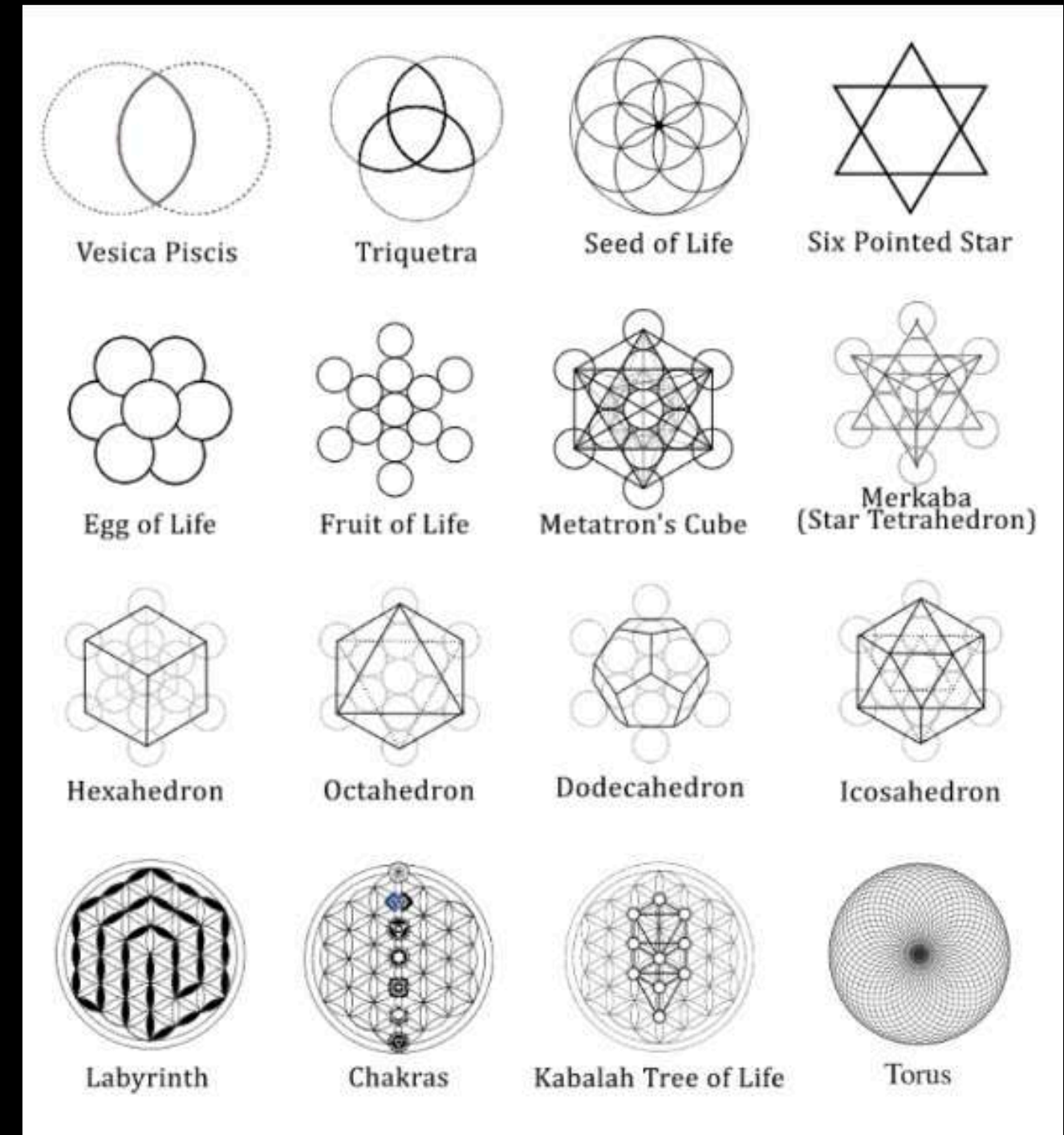
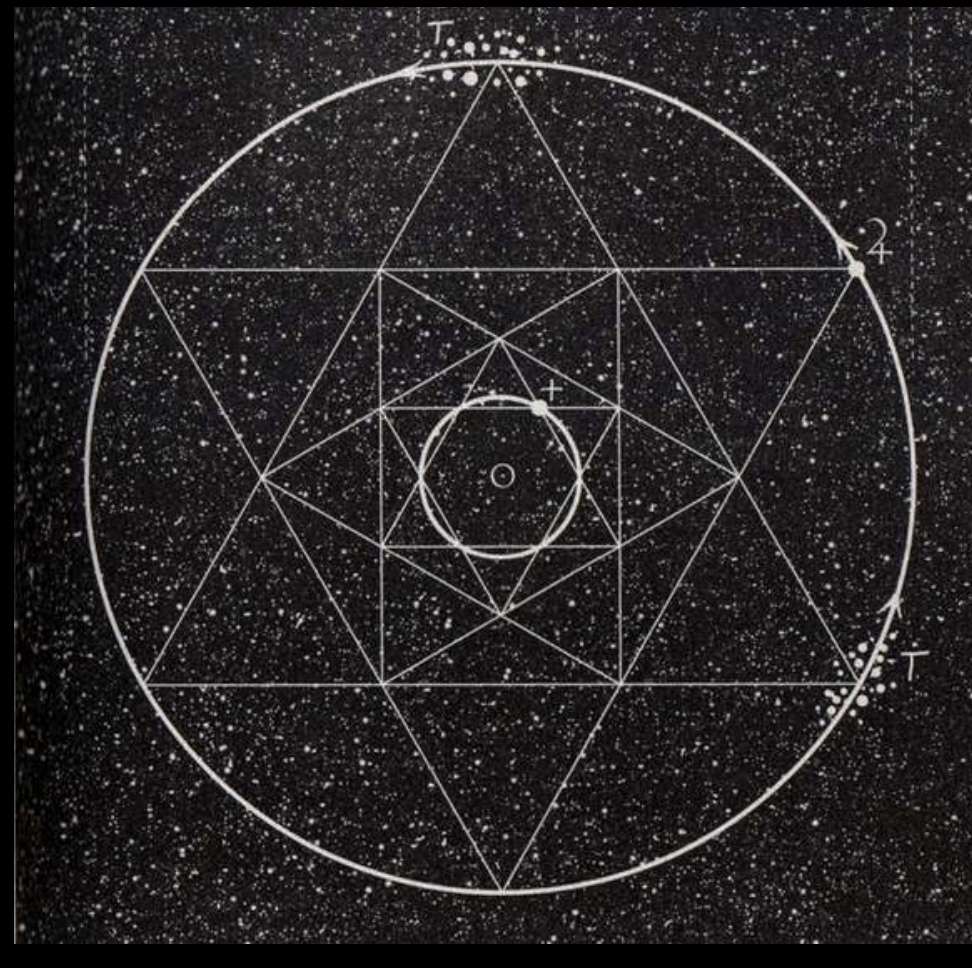
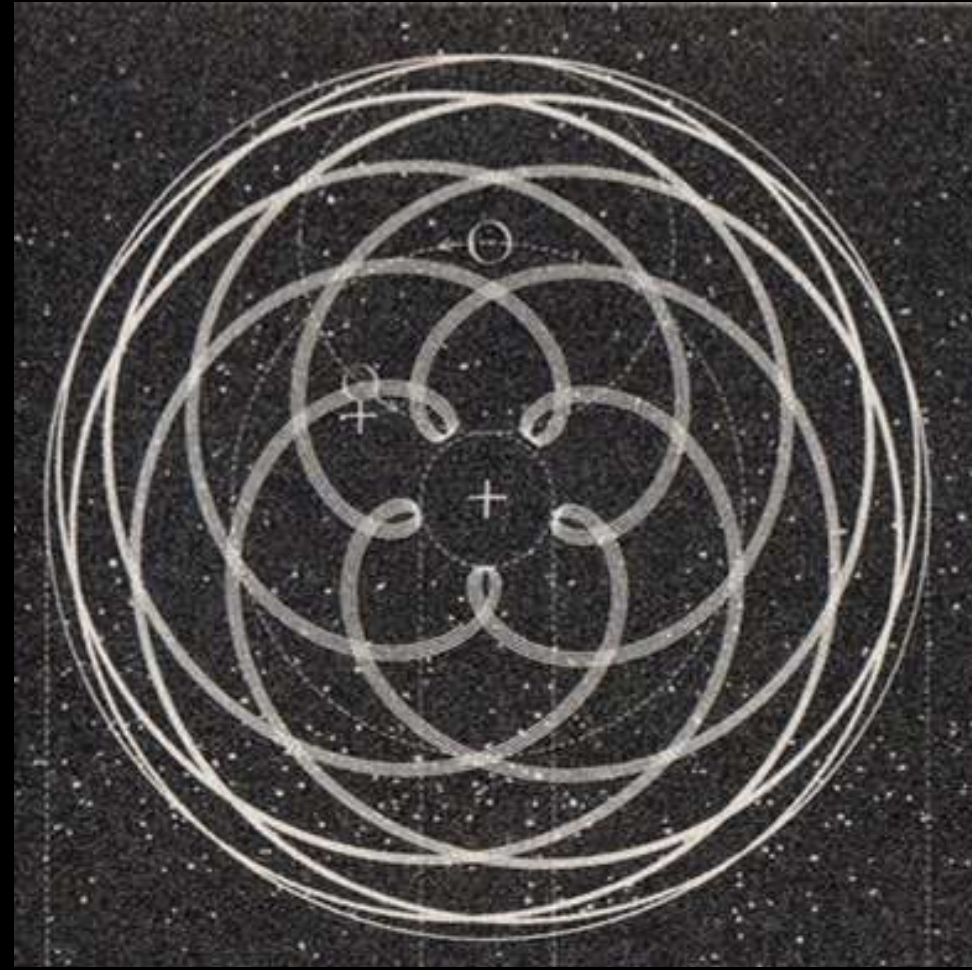
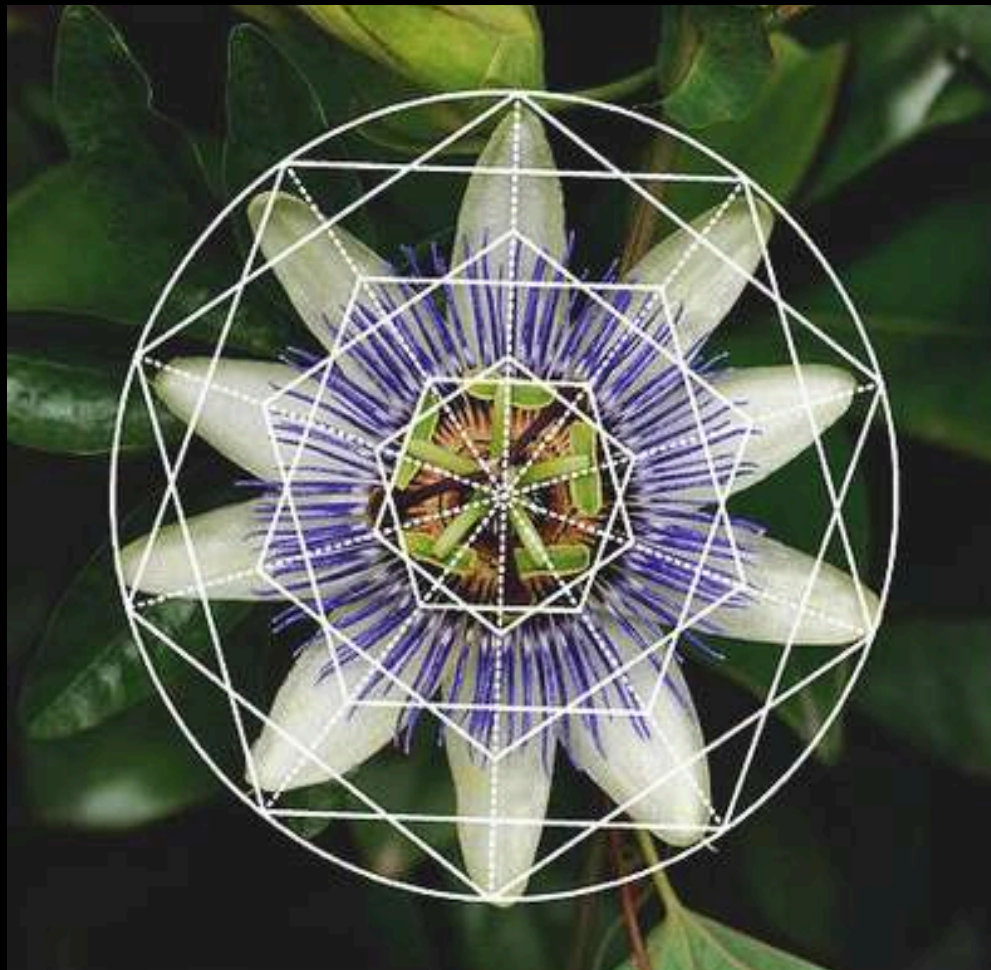












## SACRED GEOMETRY

*Symbols found within  
The Flower of Life*

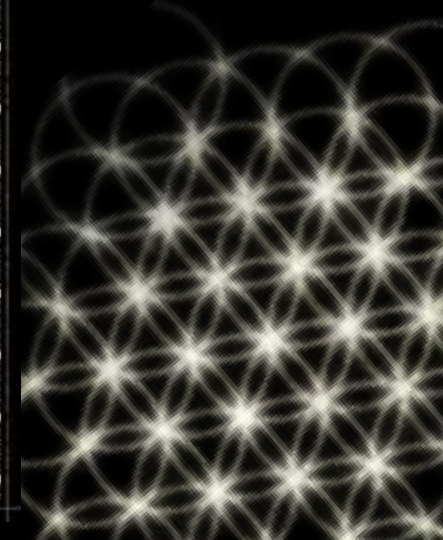
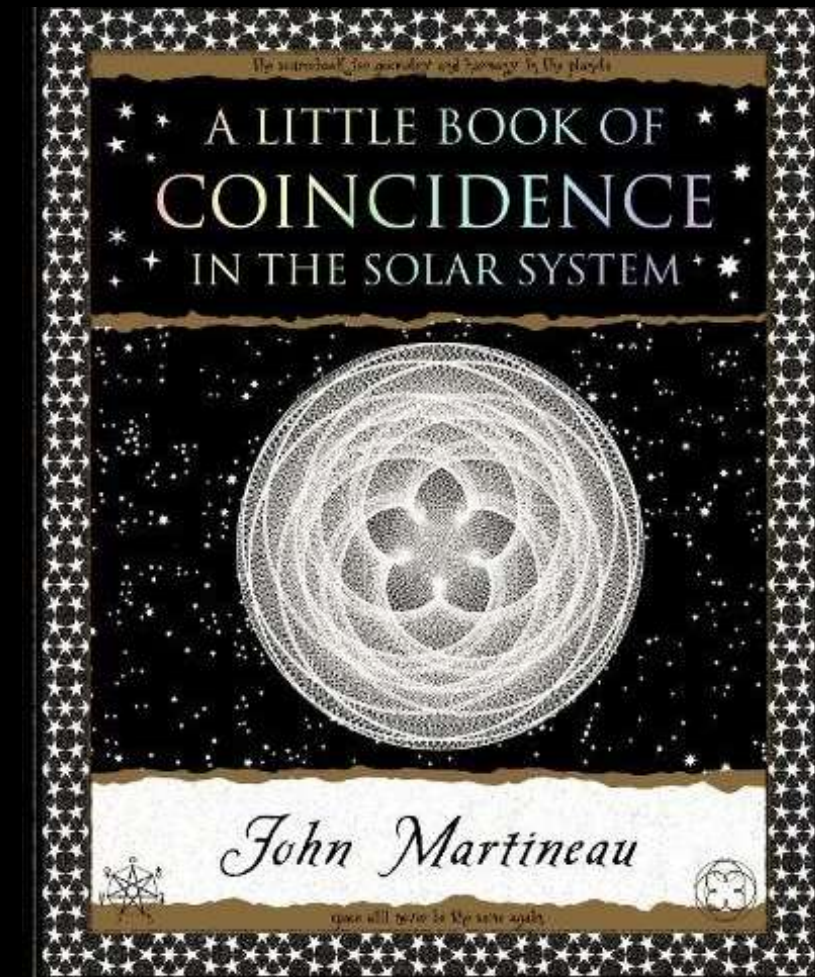
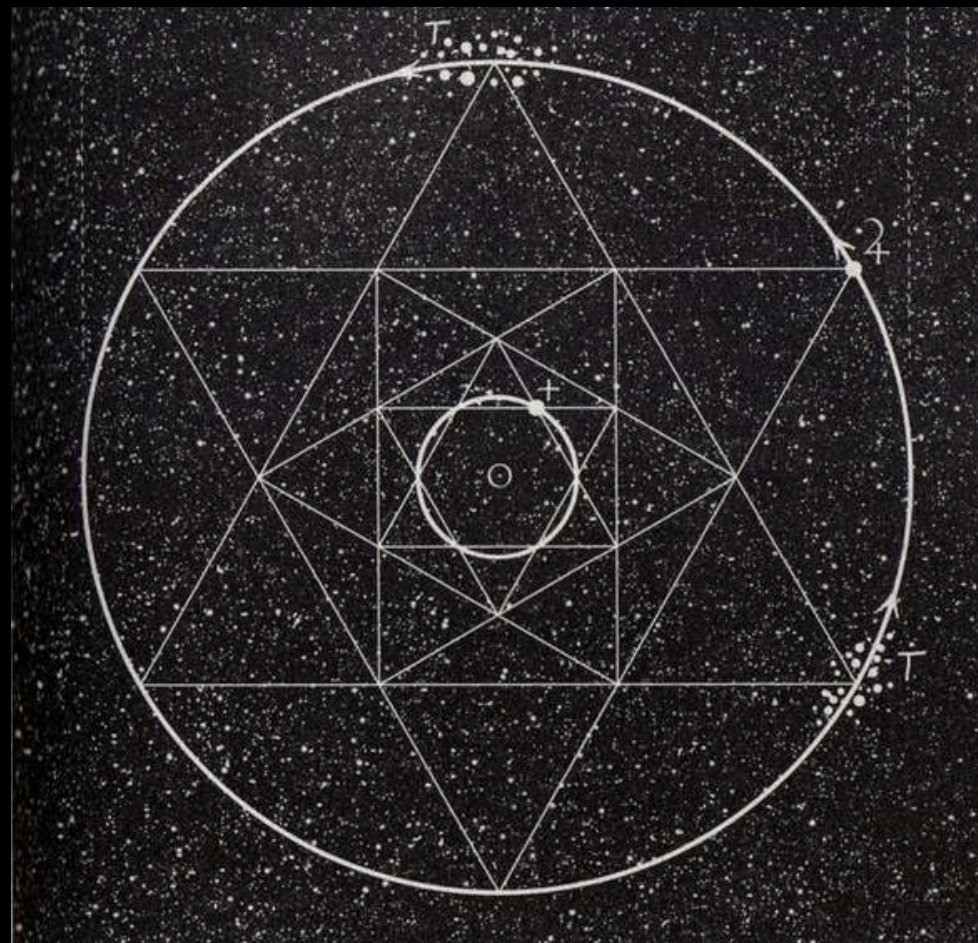
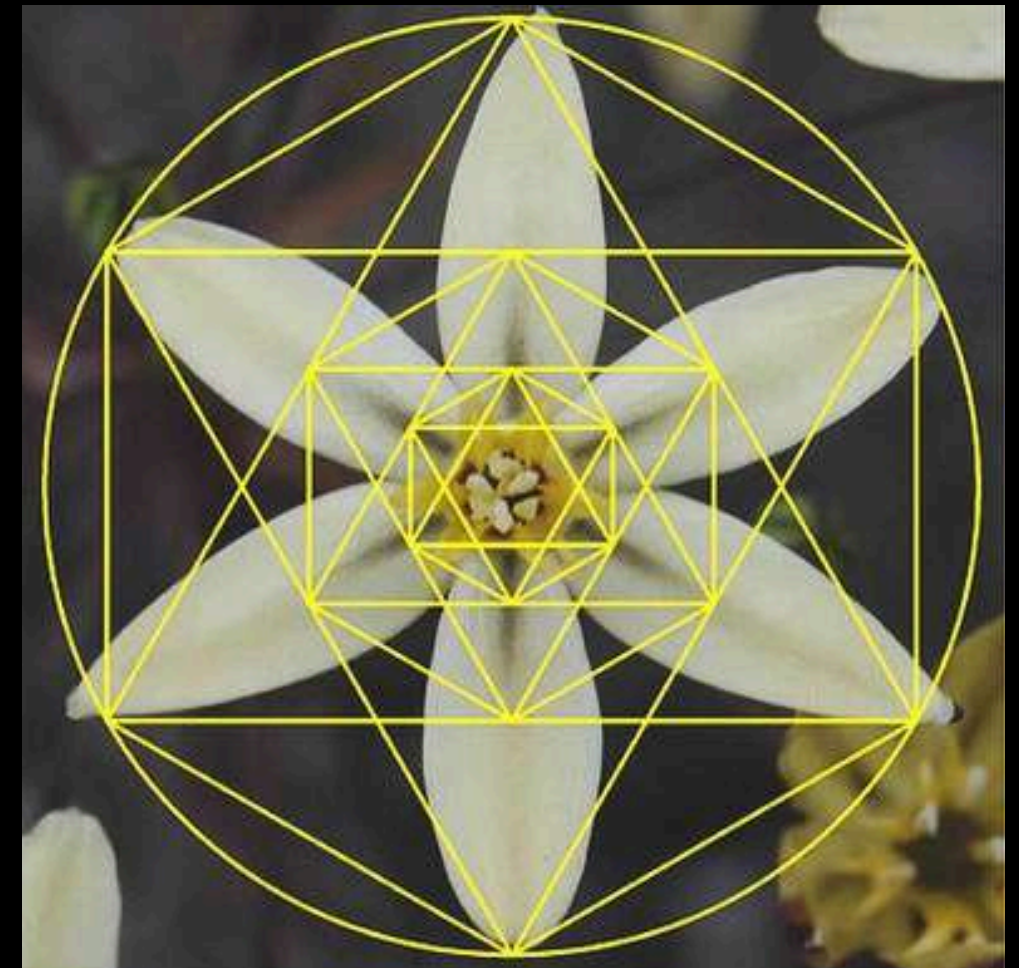
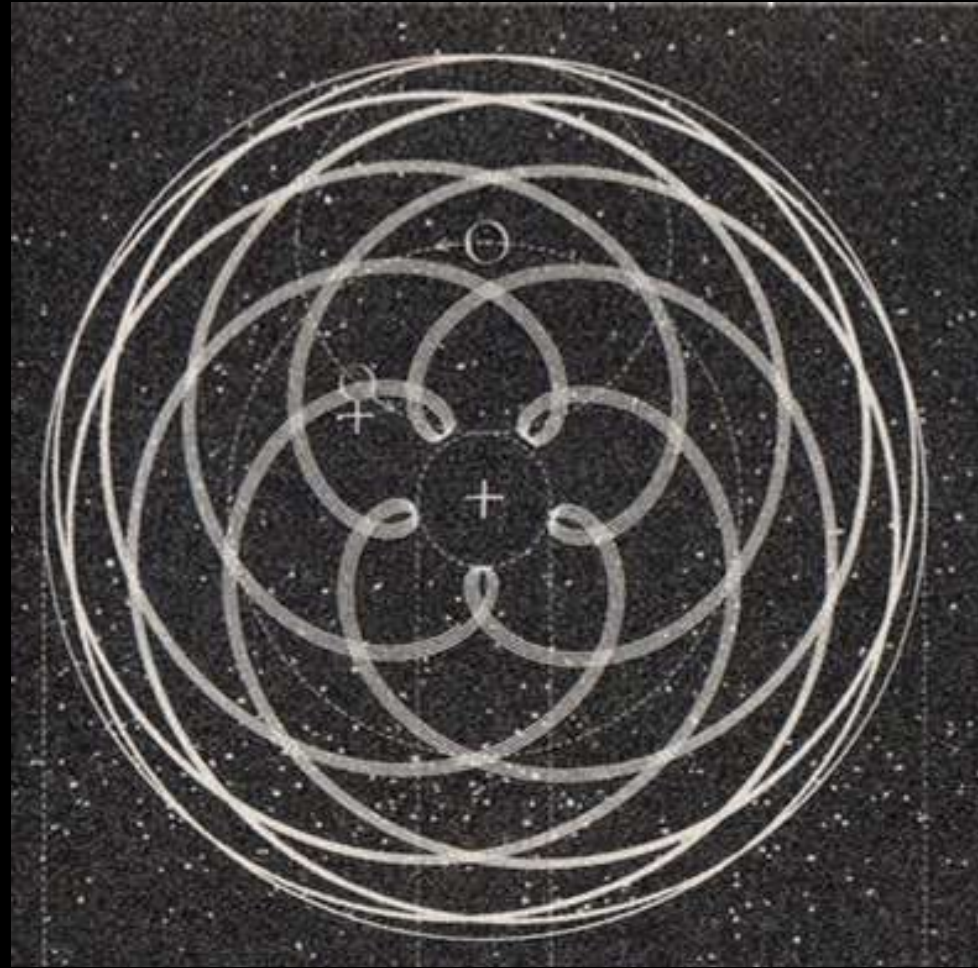


Cymatic Pattern

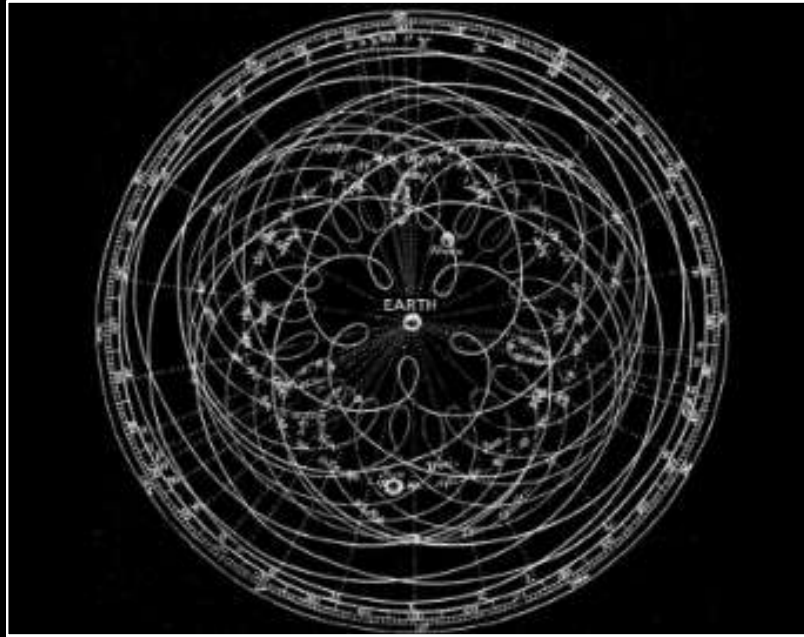


Flower of Life









Mercury



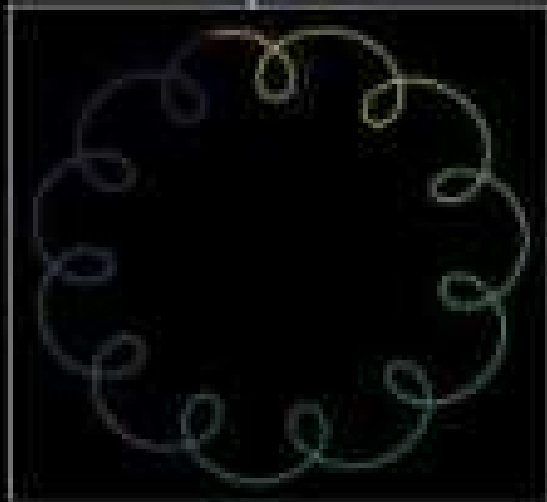
Venus



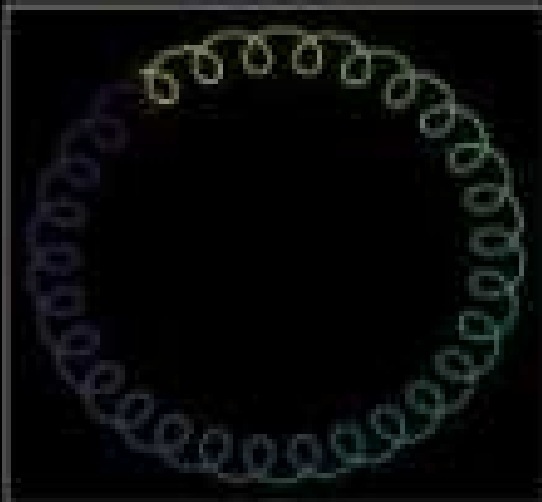
Mars



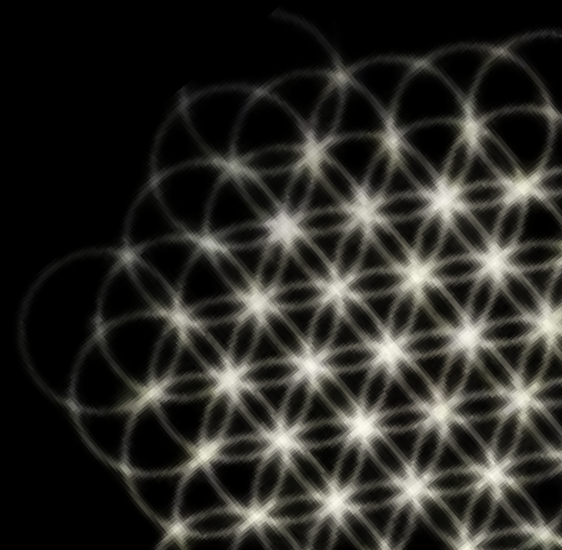
Jupiter



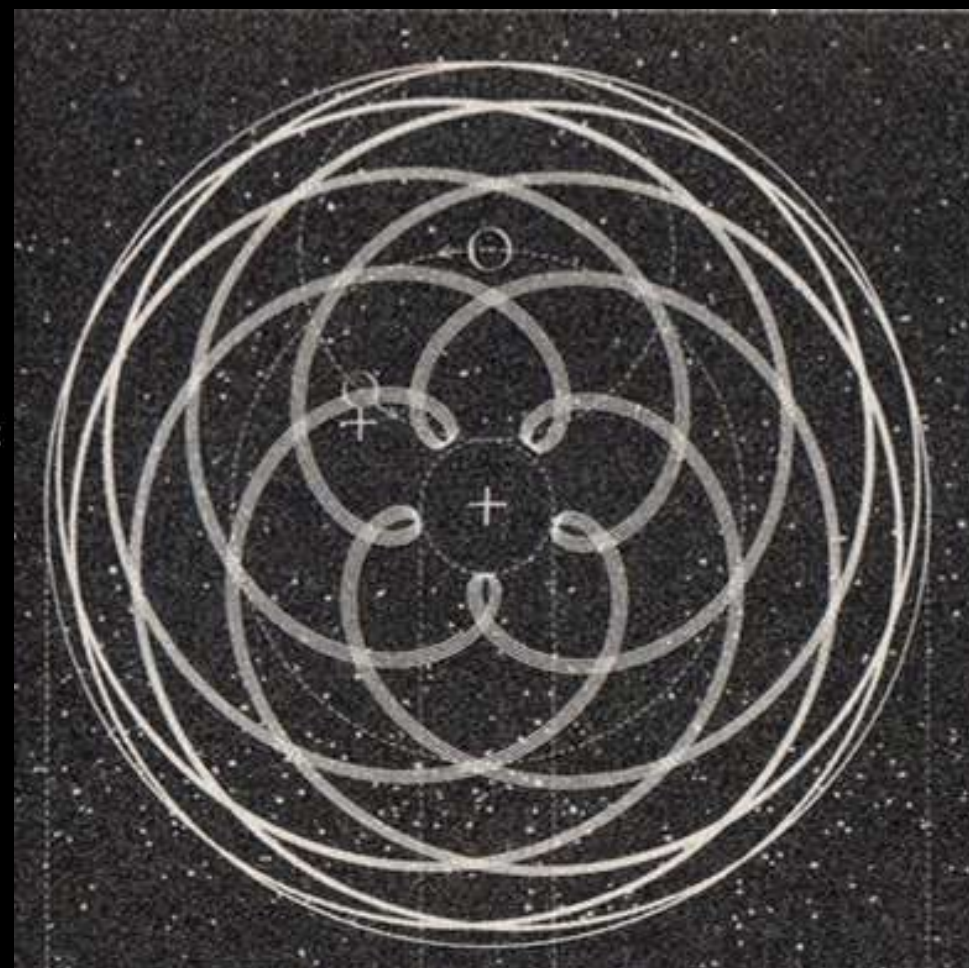
Saturn



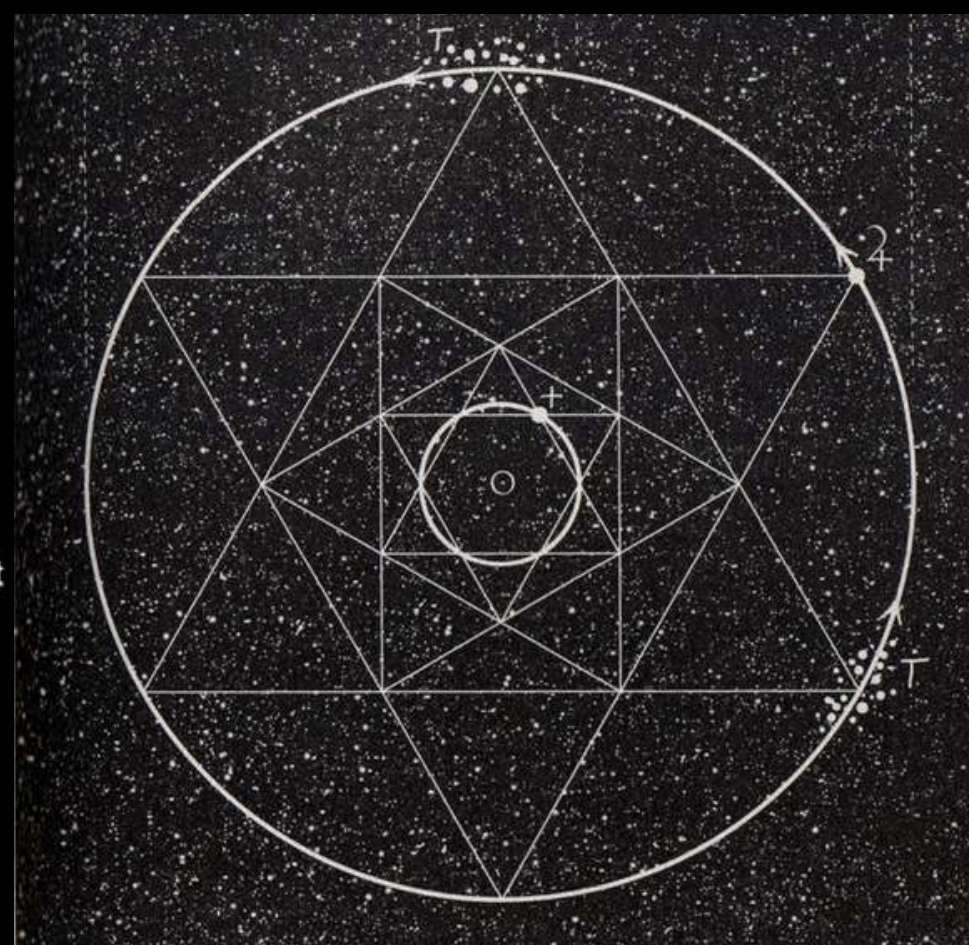
Uranus







New



Sap moves downward concentrating into the root.

Ideal for roots harvest (carrot, turnip, beet, radish, etc.).

The sap begins to mobilizes upwards.

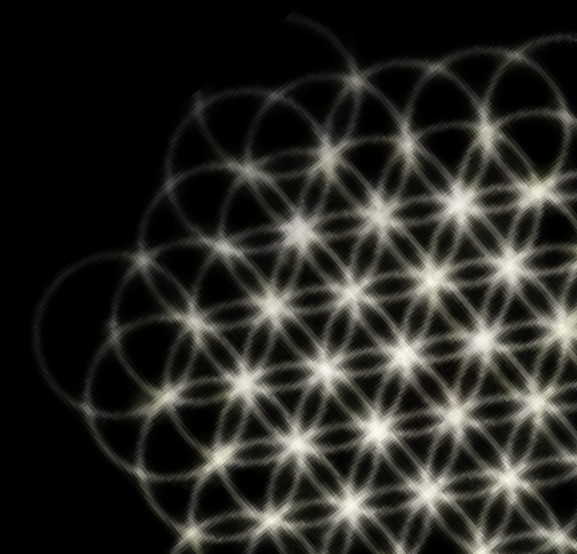
Ideal time for sowing local vegetables (leek, chicory, spinach, celery, etc.).

The sap moves upwards and accumulates in stems and leaves.

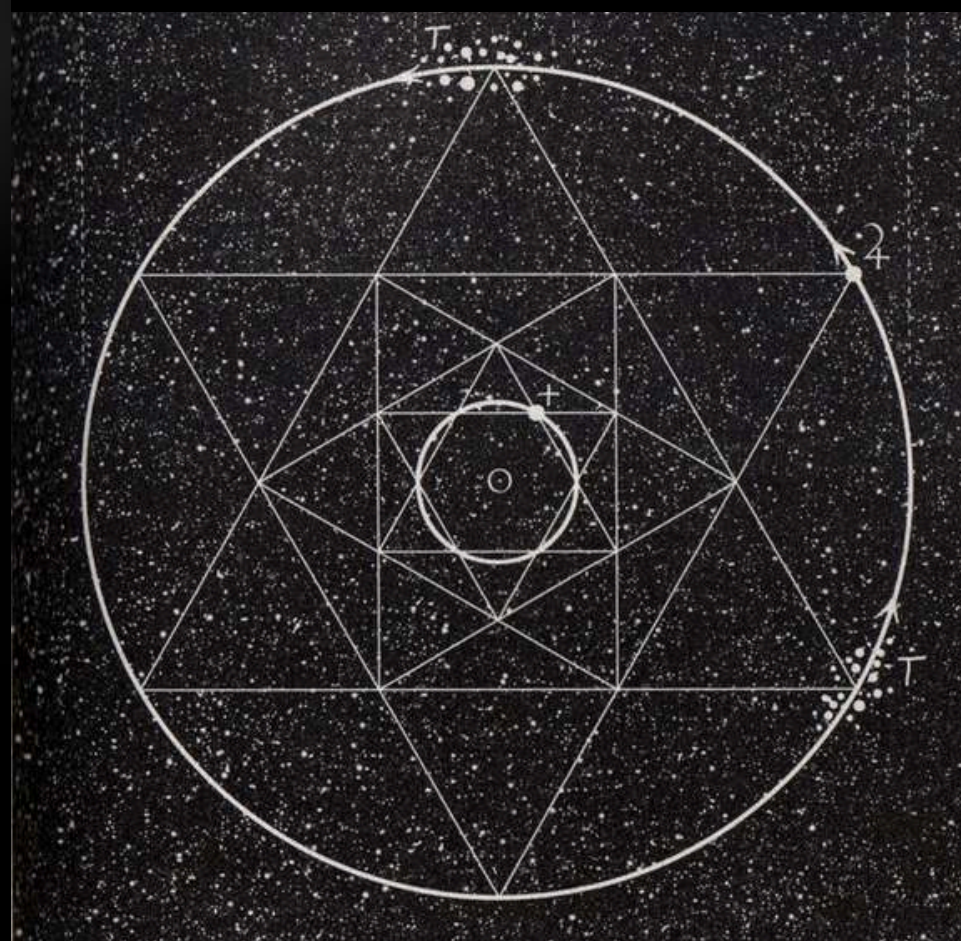
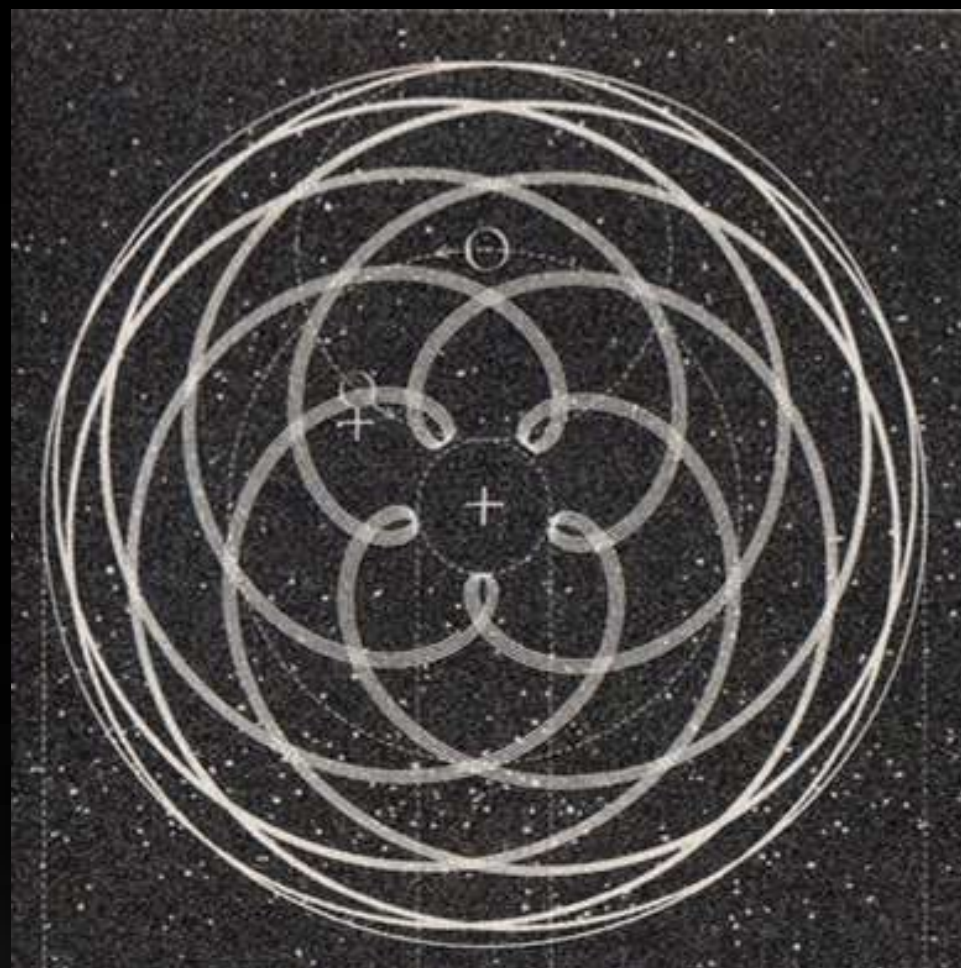
Ideal for harvesting fruit and leafy vegetables

The sap begins to be directed back to the root.

Ideal time for sowing root vegetables. (carrot, turnip, beet, radish, etc.).







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Research



**Cite this article:** Chiolerio A, Gagliano M, Pilia S, Pilia P, Vitiello G, Dehshibi M, Adamatzky A. 2025 Bioelectrical synchronization of *Picea abies* during a solar eclipse. *R. Soc. Open Sci.* **12**: 241786.  
<https://doi.org/10.1098/rsos.241786>

Received: 14 October 2024

Accepted: 8 January 2025

**Subject Category:**

Physics and biophysics

**Subject Areas:**

biophysics, electrophysiology, behaviour

**Keywords:**

synchronization, spruce, cyberforest, quantum field theory, fractal dimension, entropy

**Author for correspondence:**

Alessandro Chiolerio

e-mail: [alessandro.chiolerio@iit.it](mailto:alessandro.chiolerio@iit.it)

Electronic supplementary material is available online at <https://doi.org/10.6084/m9.figshare.c.7758791>.

# Bioelectrical synchronization of *Picea abies* during a solar eclipse

Alessandro Chiolerio<sup>1,2,3</sup>, Monica Gagliano<sup>3,4</sup>, Silvio Pilia<sup>3,5</sup>, Paolo Pilia<sup>3,5</sup>, Giuseppe Vitiello<sup>3,6</sup>, Mohammad Dehshibi<sup>2,3,7</sup> and Andrew Adamatzky<sup>2,3</sup>

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<sup>3</sup>Cyberforest Experiment, Paneveggio (TN), Italy

<sup>4</sup>Biological Intelligence Lab, Southern Cross University, Lismore, New South Wales, Australia

<sup>5</sup>OpenAzienda S.r.l., Macomer (NU), Italy

<sup>6</sup>Dipartimento di Fisica 'E.R. Caianiello', Università di Salerno, Fisciano (SA), Italy

<sup>7</sup>Departamento de Informática, Universidad Carlos III de Madrid, Leganés, Spain

AC, 0000-0001-9328-2999

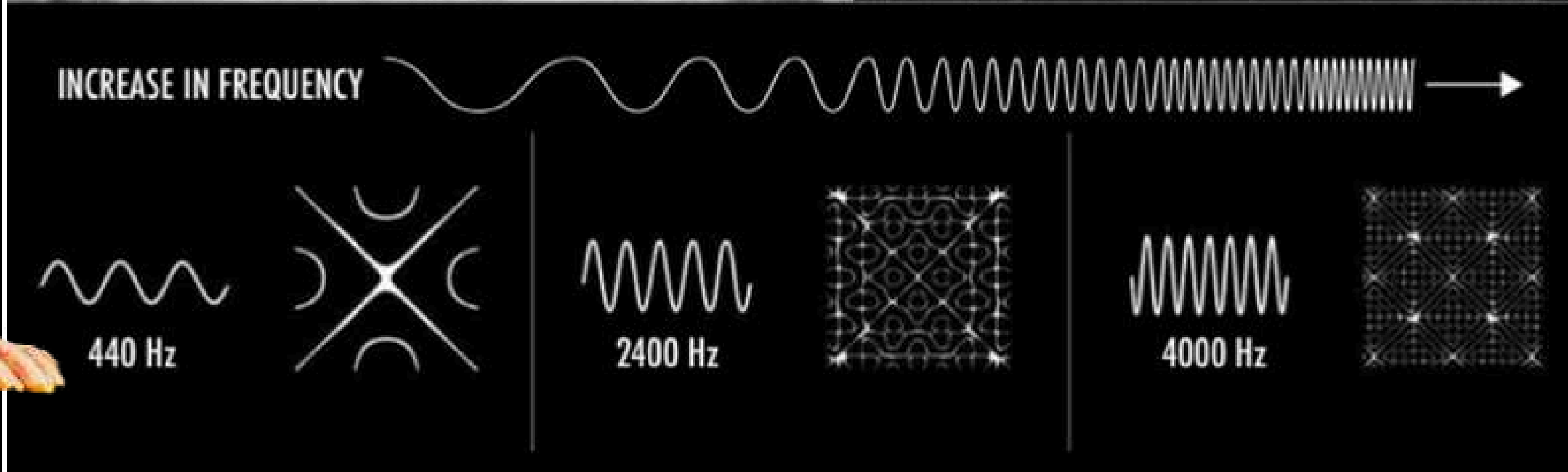
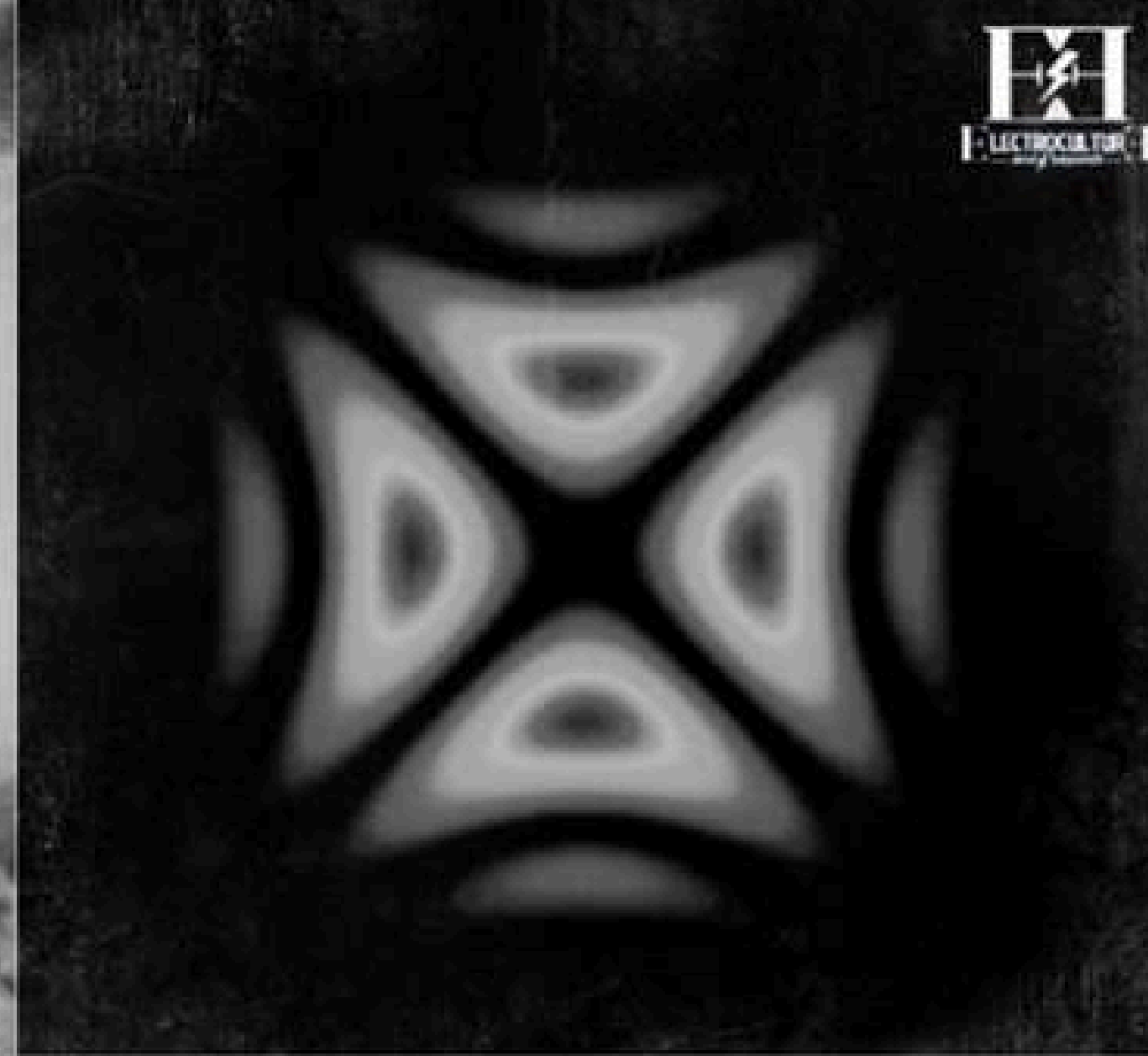
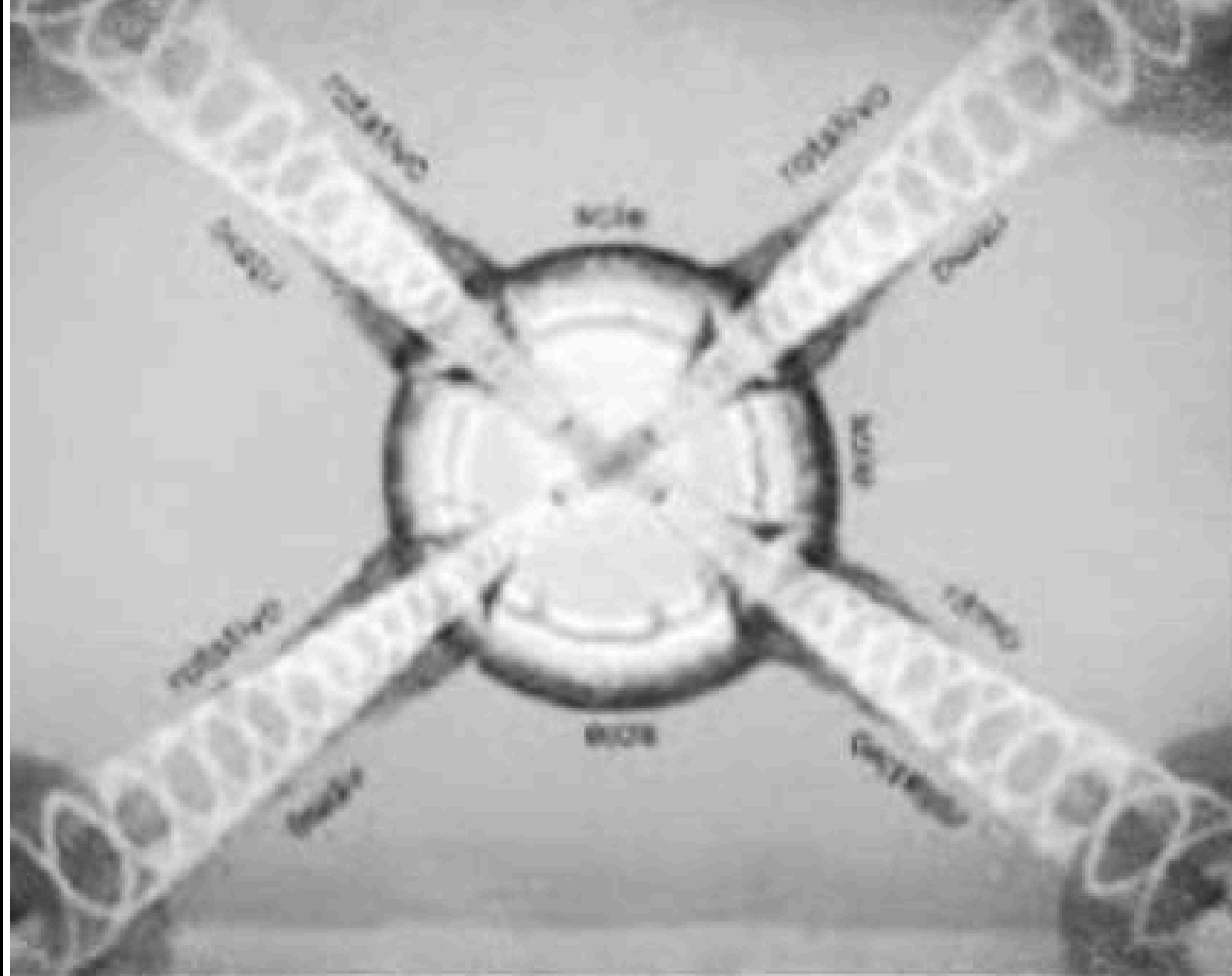
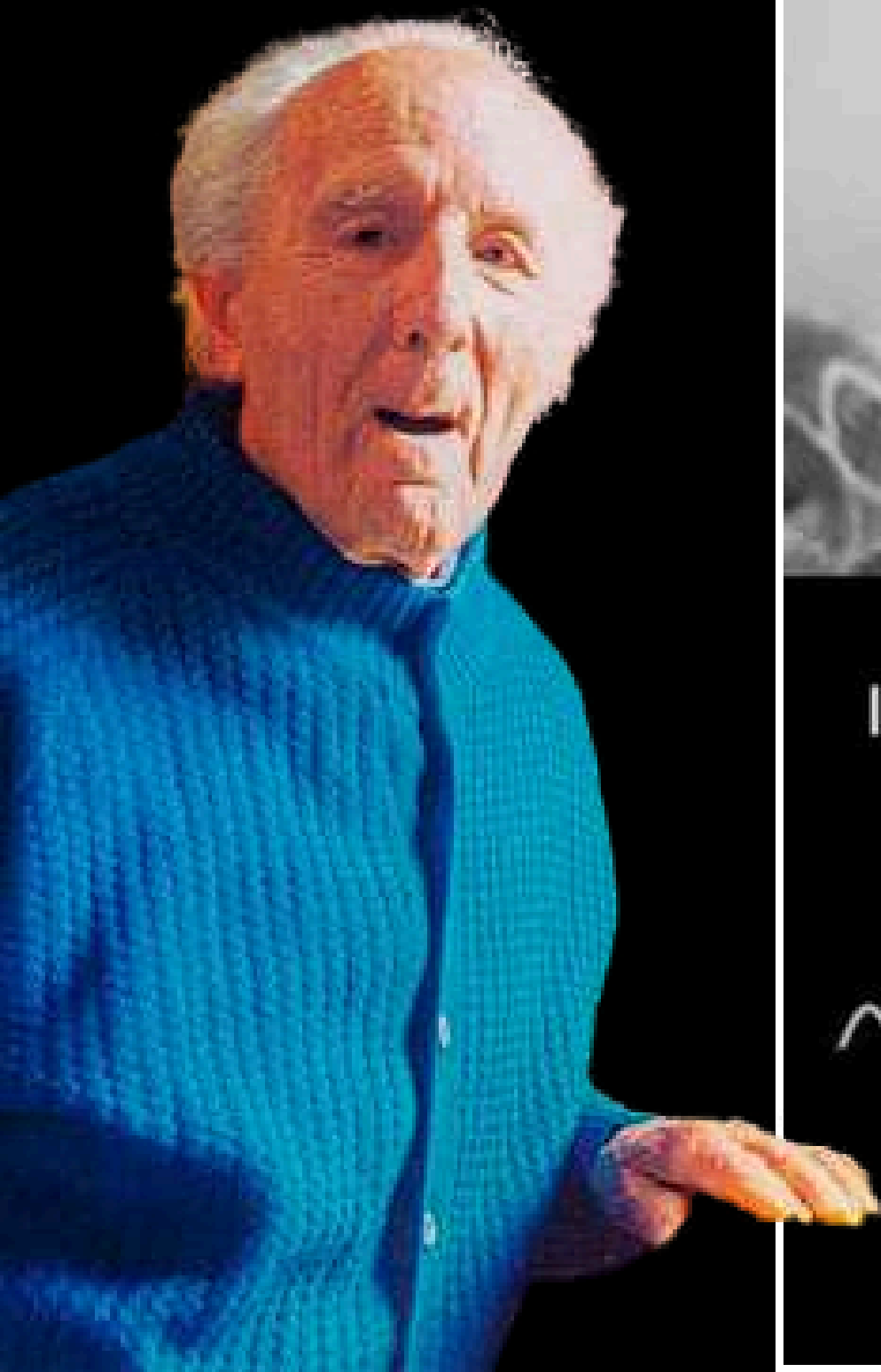
Regular light–dark cycles greatly affect organisms, and events like eclipses induce distinctive physiological and behavioural shifts. While well documented in animals, plant behaviour during eclipses remains largely unexplored. Here, we monitored multiple spruce trees to assess their individual and collective bioelectrical responses to a solar eclipse. Trees anticipated the eclipse, synchronizing their bioelectrical behaviour hours in advance. Older trees displayed greater anticipatory behaviour with early time-asymmetry and entropy increases. These results reveal a relationship between trees, shaped by individual age and physiology as well as collective history. This highlights the significance of synchrony in plants, offering new insights into coordinated behaviours in nature.

## 1. Introduction

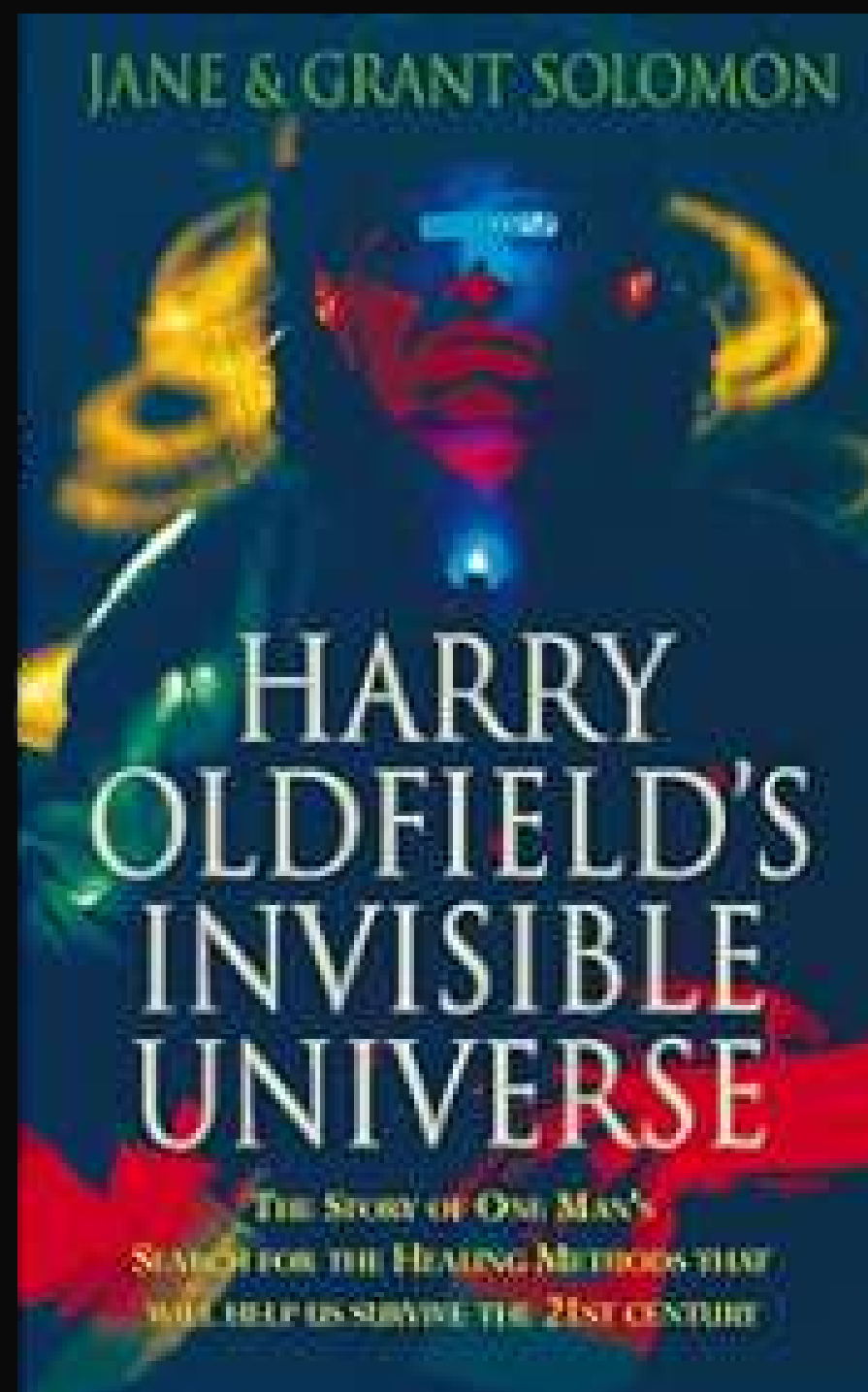
Sunlight and its periodicity drive global weather patterns, seasons and climate and make life possible on our planet. Daily and seasonal cycles of natural light organize biological systems by synchronizing their internal clock with the geophysical cycles of the Earth [1,2].

At a time marked by growing human-induced changes to natural cycles, unusual astronomical events such as eclipses effectively function as natural experiments [3], providing valuable insights into how living organisms respond to sudden and infrequent changes in their environment [4]. Even with their infrequent and momentary occurrence, eclipses and their impact on

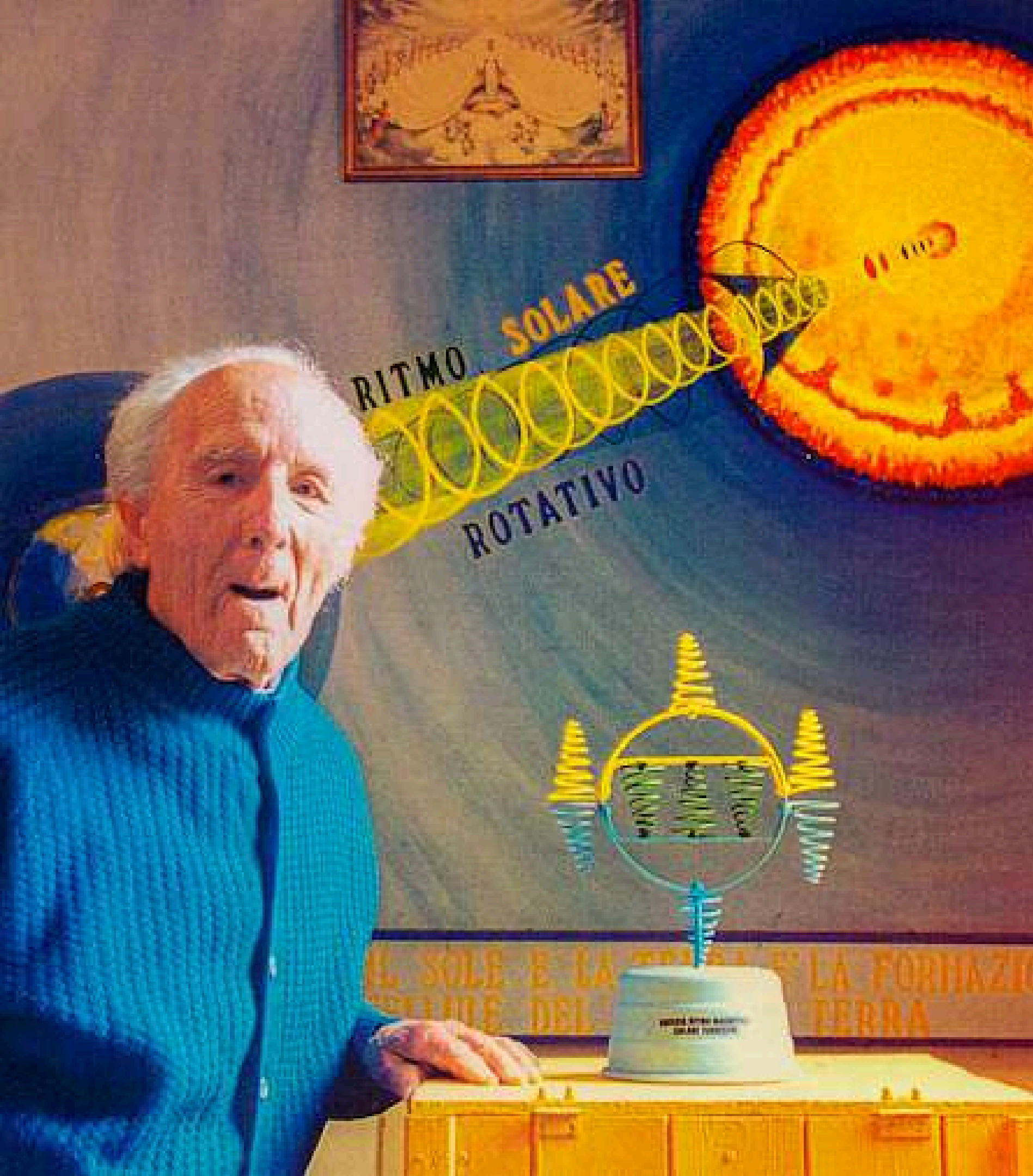




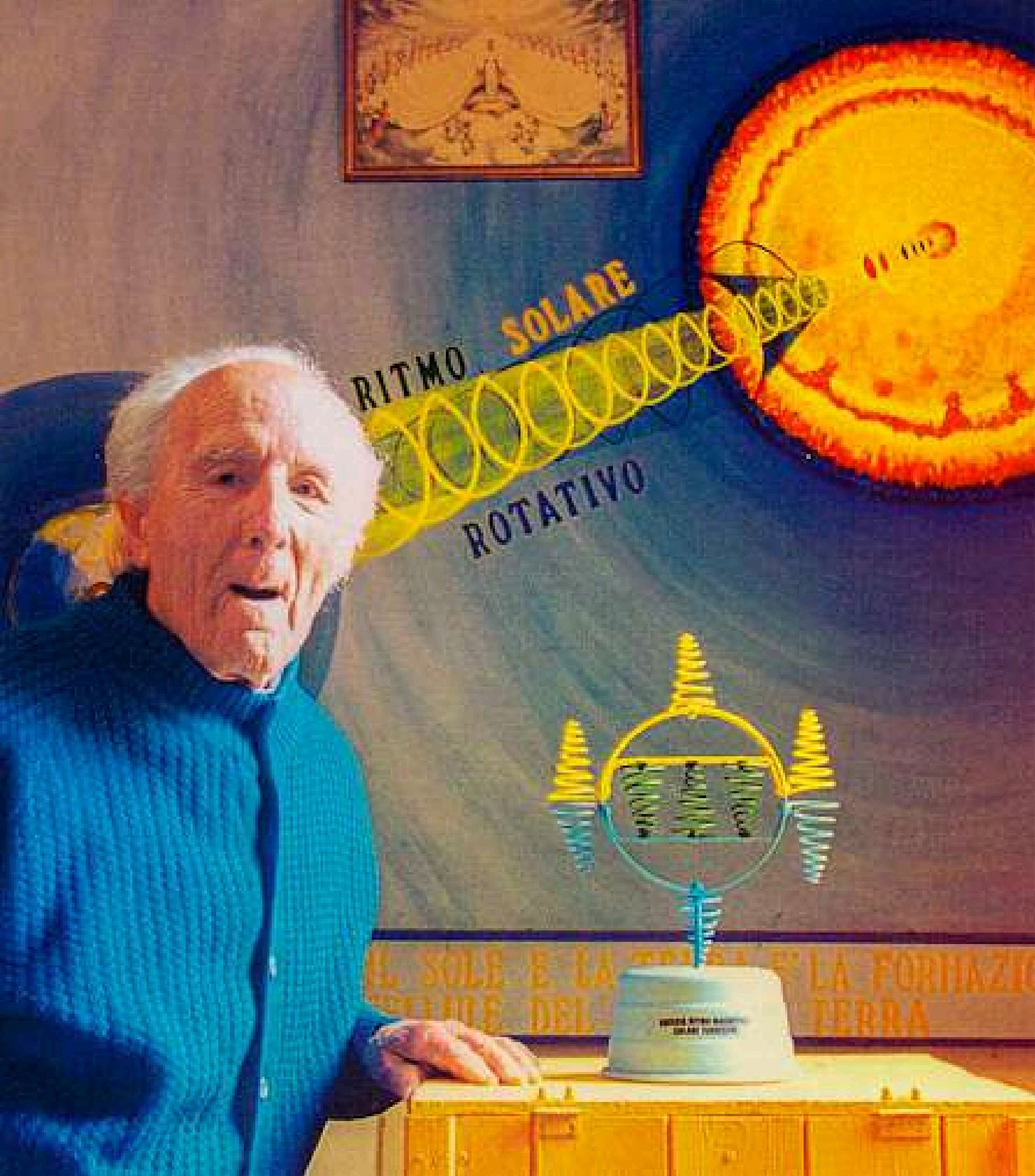










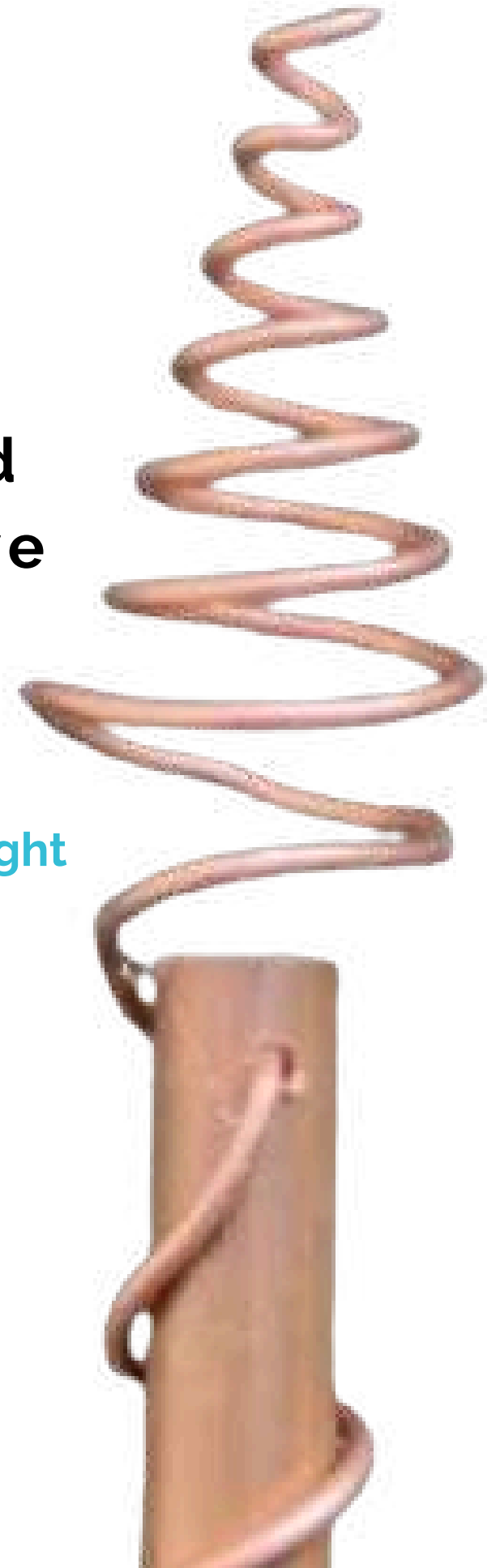






“The influence is amplified when selecting conductive metals like copper and aluminum wire.

Notice the copper vase on the bottom right


















 **Aljaž Šukljan**  
April 14 · 🌐

IT WORKS ❤️🔥 - a week ago they were the same size btw 😊  
I'm very proud of all of you who are working together to bring forth the lost knowledge of the old world ❤️ keep doing that and have faith, a new world is coming ❤️



[View insights](#) 47.3K post reach >

 David Wechsler, Ronnie Gravy Lagas and 1.4K others 143 comments 140 shares





collected previous years, and collected again in early 1929. Asplenium platyneuron (Dumort.) associated with Asplenium nidus on April 10th, 1929 and photographed June 6th, 1929. It will be observed that the stem of the plant keeps a massive base.



**Illustration C:** The test plant three years later. The annular ring has completely healed the plant and protected it from other damage. To the left are two unperforated similar treated plants of same age that became victims of the same disease. Photographed on March 12, 1926.





After taking the Electroculture Fundamentals Course; I was stunned to witness a 10% egg weight increase within just 2 weeks from placing a Lakhovsky coil under the chicken's grain. The course unveiled numerous techniques, and given the success with just coils, I'm thrilled at the prospect of what combining them with other treatments like energizing their coop and charging their water will achieve.

Mark Stanley©



Here is image. You can add "Permaculture Consultant" after my name

10:39 am



From other damage. To the left are two unprotected similar sized plants of same age that became victims of the same illness. Photographed on March 13, 1928.



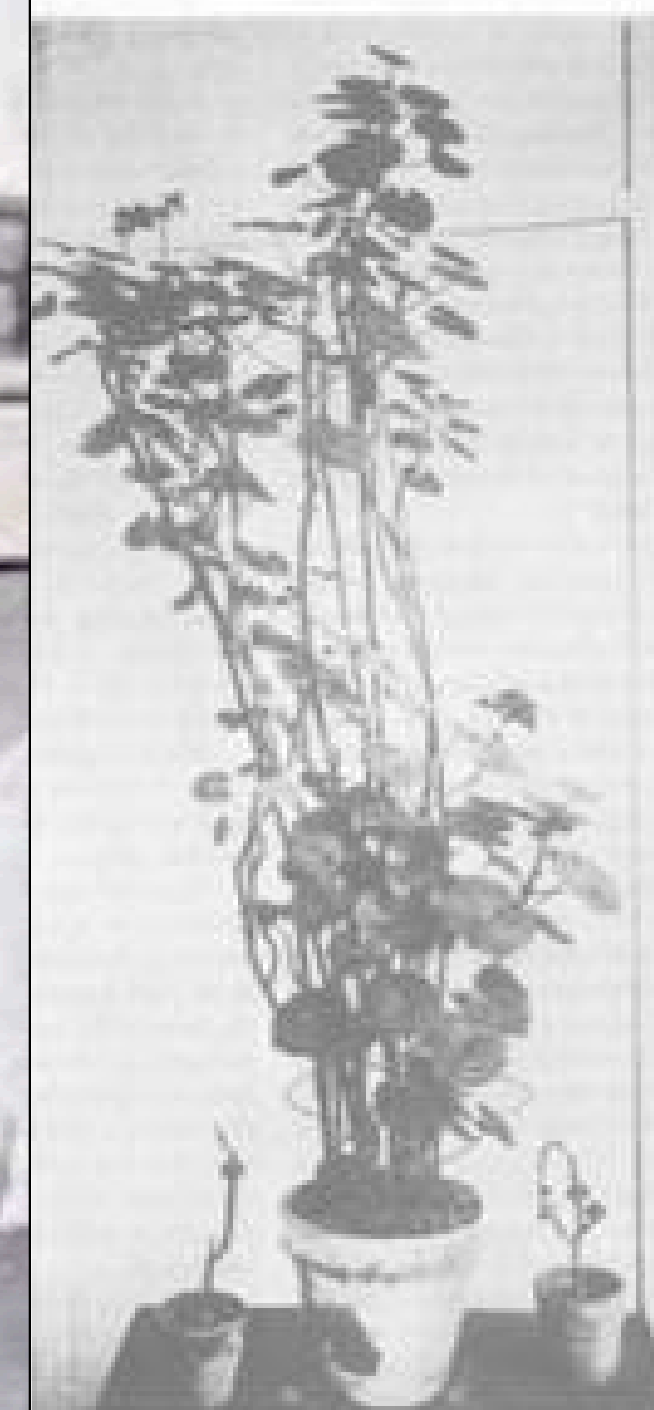
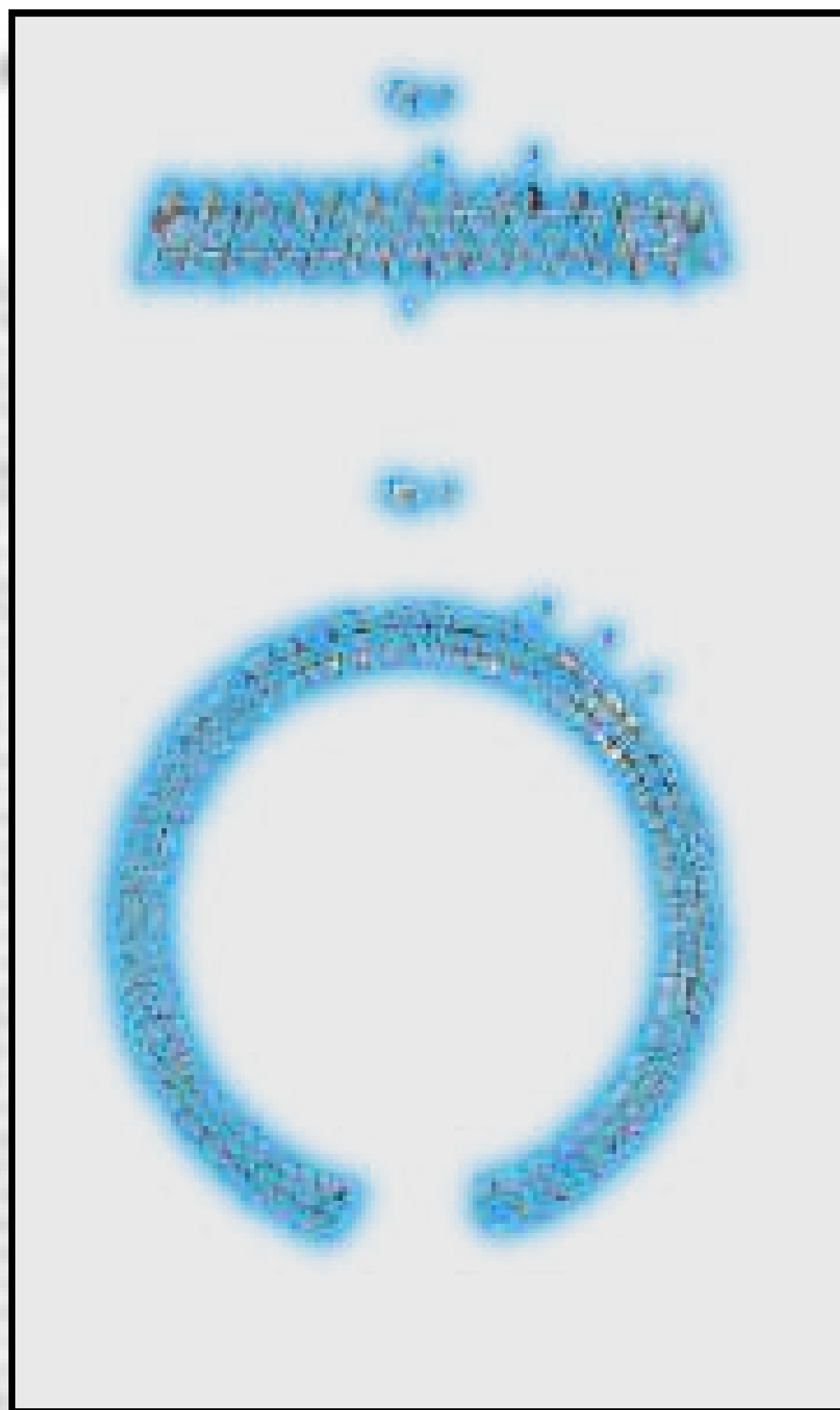


Illustration C: The new plant three years later. The new ring has completely healed the plant and protected it from other damage. To the side are two unprotected similar sized plants of same age that became victims of the same disease. Photographed on March 13, 1928.

...the present year, the disease grows in every year. ...the ... involved with ... on April 19th, 1928 ... photographed June 1st, 1928. It will be observed that the ... of the plant ...





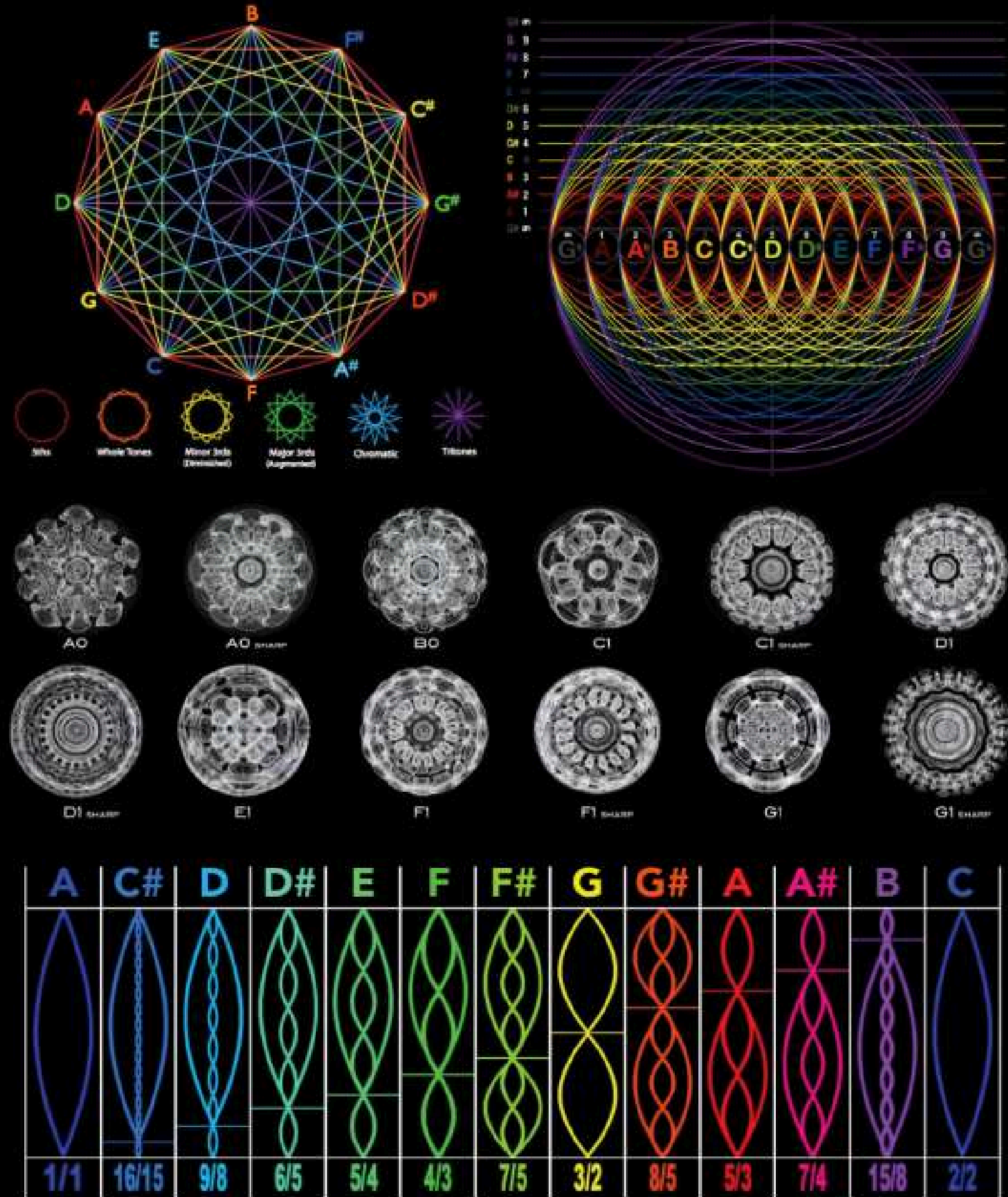








# HARMONICS









# Orgonite + Tensor-Technologie | Fraktales Bewusstsein



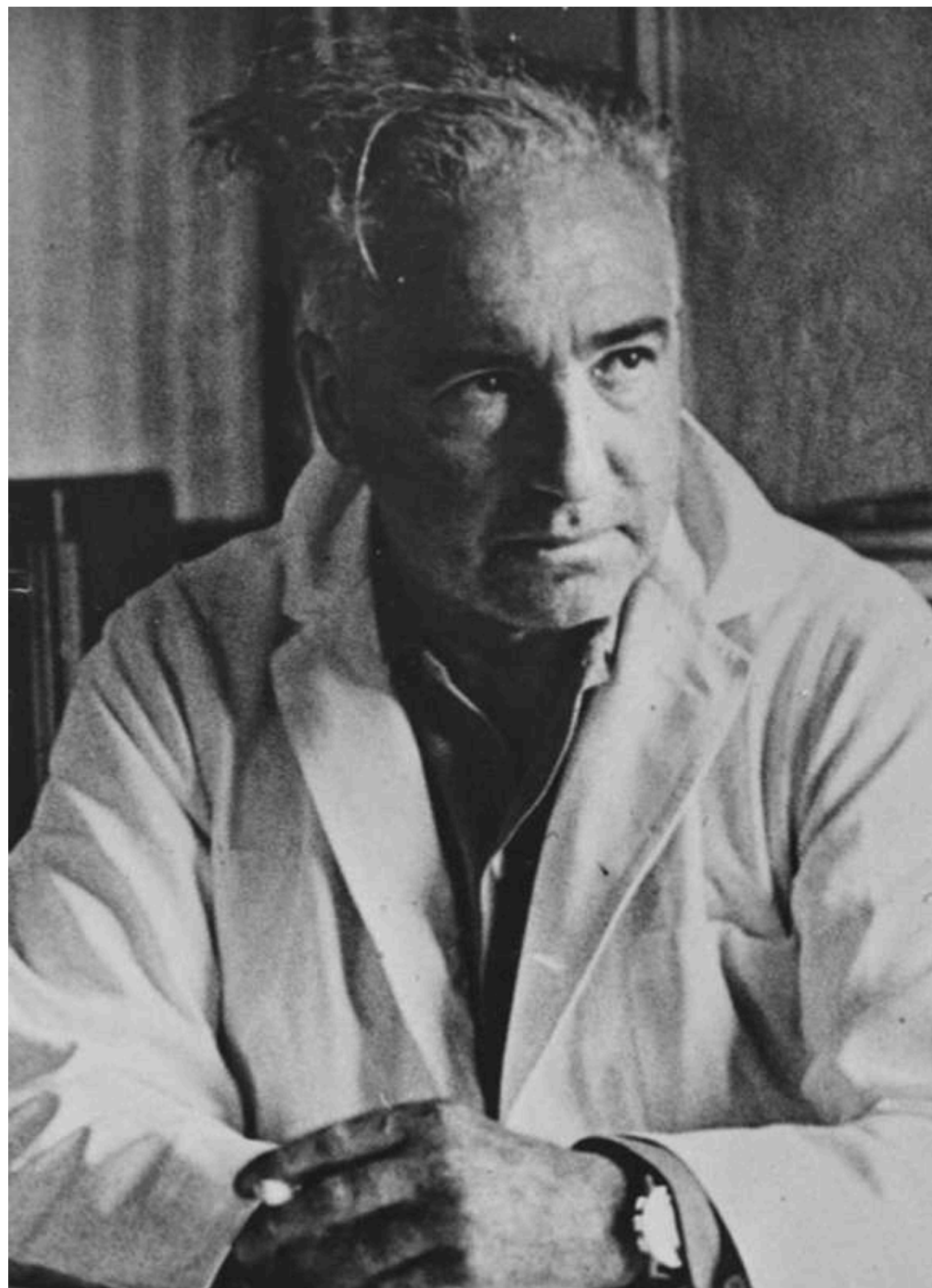




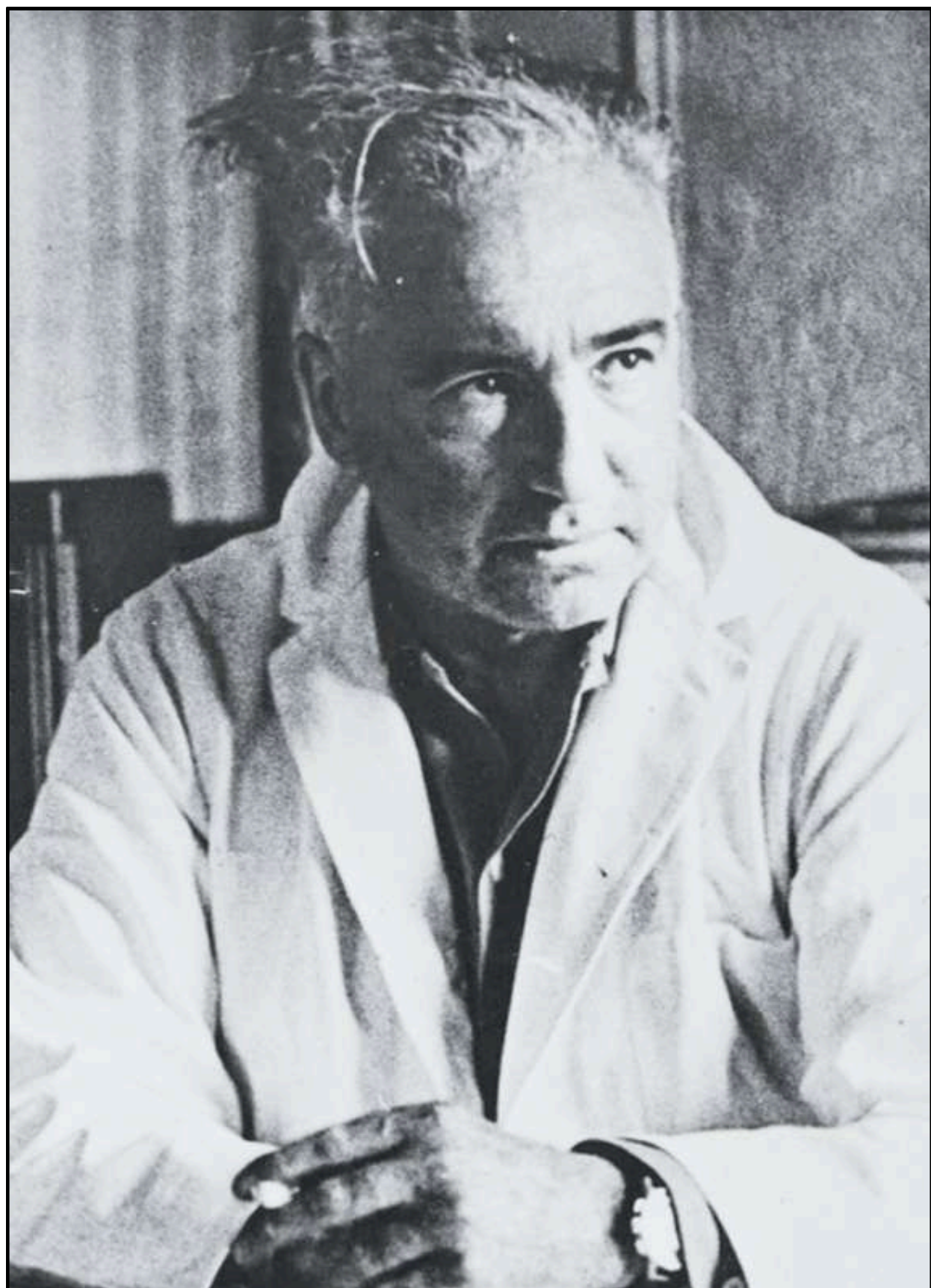
Derald George Langham  
Genesa Crystal







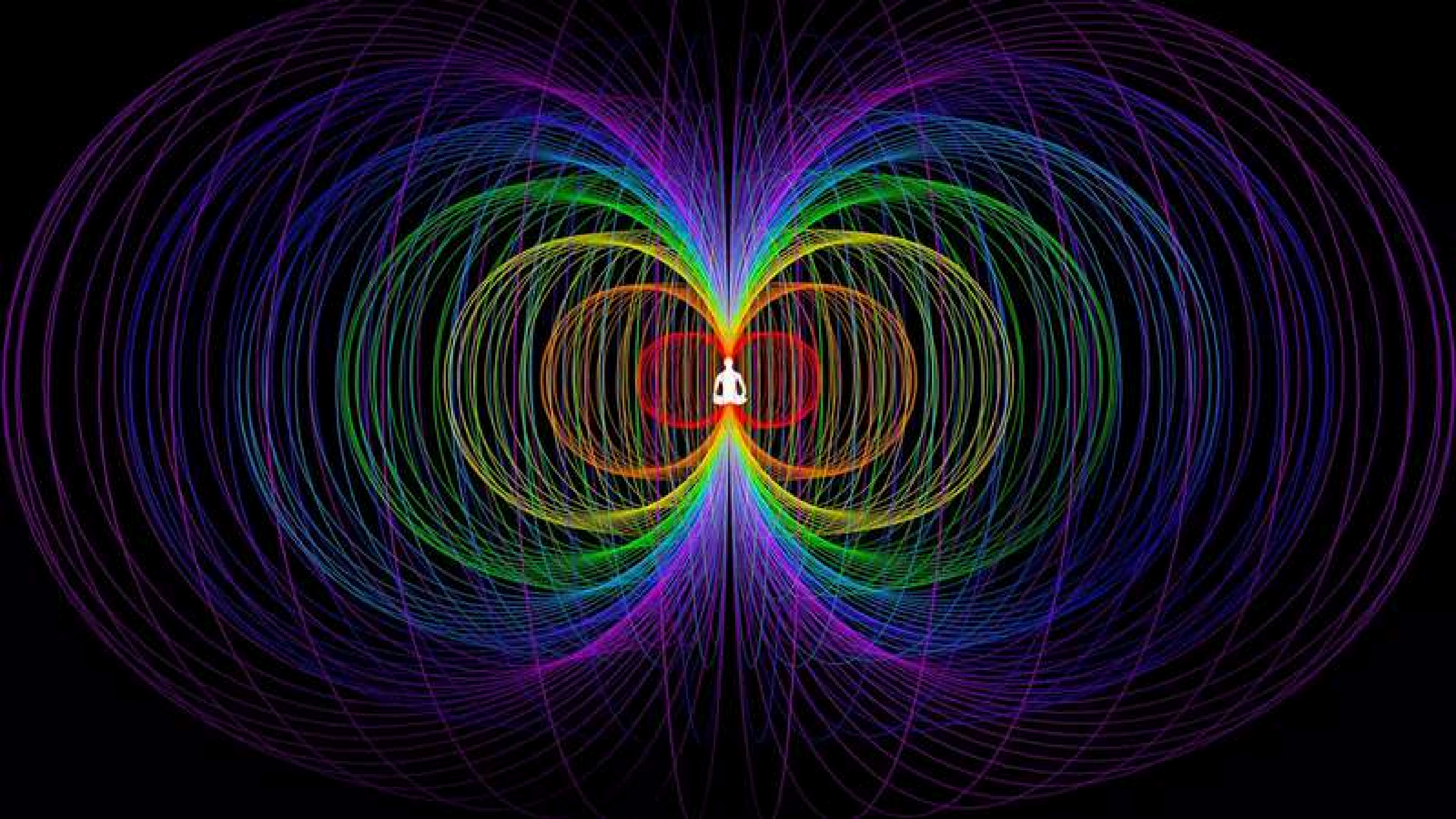








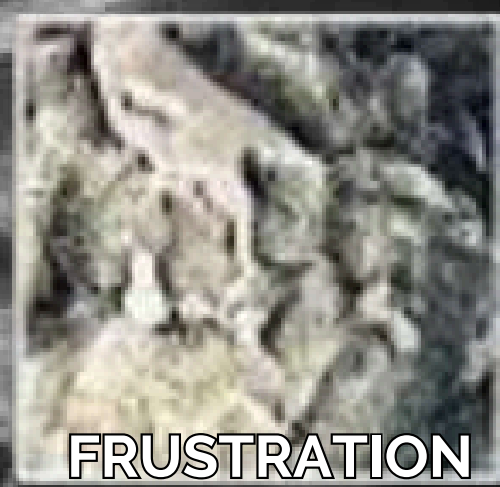










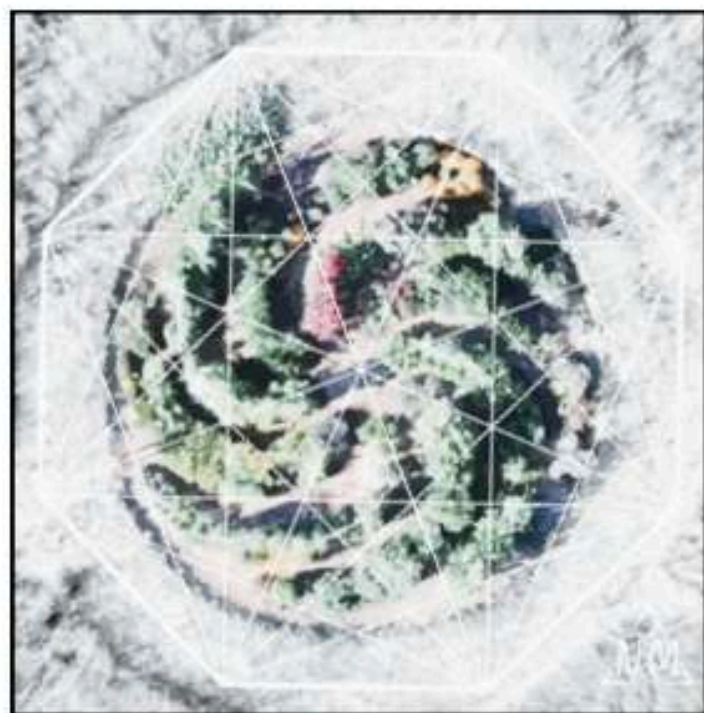








# The Nutritional Mystic Grow Magic



DESIGNING SACRED SPACE IN A GARDEN



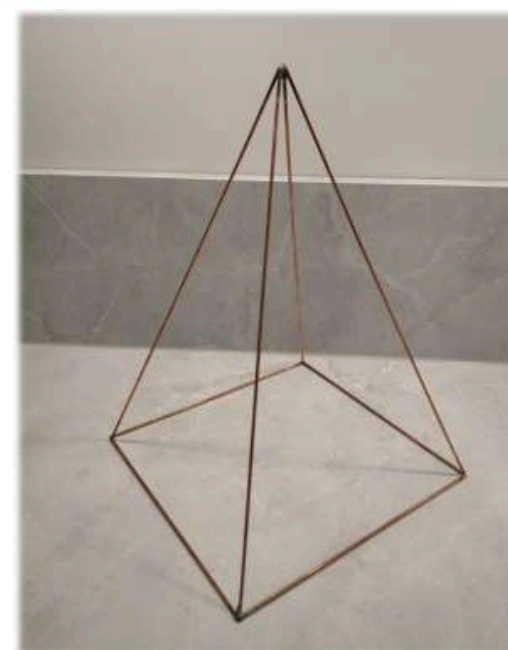
Ray Lee Bacon

GEOMANTIC  
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GARDEN DESIGN

- Eco-Resilience
- Space Harmony
- Regenerative Beauty



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## Good Vibrations

Let's heal the earth to make it a better place for now and future generations....