

Apr. 5, 2020

Measurements and data

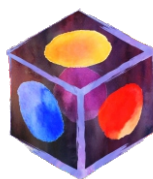
Study of activity in global energy
during the World Meditation
(Ascension Timeline)



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Athens 2020



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Personal Note

Saturday the 4th of April 2020

11:20pm ...somewhere in Athens

Global Pandemic lockdown made me find the only refuge in front of my monitor and keyboard. I couldn't stop thinking about what would happen at dawn. Something unique will occur, something that never happened in such a big scale before. A global mediation against the coronavirus will take place and will start around 5 in the morning. "That's alright. If I manage to get off my bed, then I will decide what to do", said to myself, set the alarm for 04:30 a.m. and went to bed. My last thought was not to disturb my sleep for such a thing, I must confess.

My sleep did not last long and around four in the morning, I find myself awoken because of long and painful yawns. "Something is happening" I said, finding myself into a strong field of energy. There is no way to describe the experience and what happened during the next hour. As a matter of fact, it would not be a proper thing to do within the framework of this essay.

I have received Reiki Master (Usui and Karuna) Certification in 2012, since then I have had up to 20 students under my supervision, and three out of them reached level 3. Today, I am studying Natural Sciences and Physics at Hellenic Open University. One assumes and easily can say about me there is a contradiction within me. My spiritual side accepts the fact there is a kind of energy yet to be discovered and the other is shouting to test & to observe for scientific proves.

Following this strong calling that night, the scientist within me willing to analyze further this experience, became the core of this analysis. Furthermore, I must point out and quote the following. Within scientific frameworks, the first results of an experiment may prove random and accidental. The results of a second experiment are considered indications, while the results of a third experiment are considered to be valid.

Regardless of what everyone experienced individually, there was indeed a strong "rain" of energy at the time of the meditation and as evidenced by the present work, this energy did not come from Earth. As I mentioned before, it is not yet clear if it was a coincidence or if it did happen due to the coordination of thousands of people, so I hope it will happen again to participate, but also to collect and study more data. My desire is to prove that the mental connection between people creates real and measurable changes in the physical realm, so that it can be proved by scientific data that the mind does indeed prevail over matter.

K.V.



Schumann resonance

The Schumann resonances are a set of spectrum, peaks in the extremely low frequency (ELF) portion of the Earth's electromagnetic field spectrum. Schumann resonances are global electromagnetic resonances, generated and excited by lightning discharges in the cavity formed by the Earth's surface and the ionosphere^[1].

Schuman Frequencies are in essence electromagnetic waves created by lightnings. After their formation, they transcend towards all directions, carrying their energy, until they encounter the upper levels of the ionosphere and they are reflected back. This phenomenon forms **stationary electromagnetic waves** (the same way two children create waves with a rubber).

The stationary waves are condemned to oscillate within a precise area. These movements are taking place due to the fact that the space between the Earth's surface and the conductive ionosphere operates as a confined waveguide. Earth's limited dimensions are the cause of making this waveguide behave as a coordinants cluster cavity for the electromagnetic frequencies (fig.1).

The cavity is energised by the electrical waves produced from the lightnings. Schuman frequencies start at **3Hz** up to **60Hz**; they appear as peaks in the extremely low frequencies (ELF) of around **7.83Hz** (fundamental frequency).

Schumann resonances (frequencies) harmonics

1st harmonic: $f_1 = 7.83\text{Hz}^*$ ($n=1$ fundamental)

2nd harmonic: $f_2 = 14.3\text{Hz}$ ($n=2$)

3rd harmonic: $f_3 = 20.8\text{Hz}$ ($n=3$)

4th harmonic: $f_4 = 27.3\text{Hz}$ ($n=4$)

5th harmonic: $f_5 = 33.8\text{Hz}$ ($n=5$)

⋮

*The hertz (symbol: Hz) is the unit of frequency and is defined as one cycle per second. For example, the old pendulum clock oscillates with a frequency of 1Hz.

As already stated, the electrical discharges of lightnings are considered to be the major cause of the oscillations evident in the Schumann resonances. Lightnings & thunders act like giant antennas, spreading electromagnetic energy with the speed of light. The further away from the source (I.e. the lightning) the weaker these signals become. However, the Earth-ionosphere acts as a resonator in Extremely Low Frequencies (ELF) and amplifies the signals from the lightning to coordinate the harmonic frequencies. Therefore, they produce specific frequency values, as these waves are intended to oscillate within a certain amount of space volume. The mathematical form that gives the harmonics, shows that the n-th harmonic frequency f_n depends **only on the radius of the Earth R and the speed of light c**.

$$f_n = \frac{c}{2\pi R} \sqrt{n(n+1)}^*$$

*The above form applies to an ideal spherical cavity and is a simplification according to reality.



Fig.1 The area between Earth and ionosphere becomes the cavity for Suman resonances.

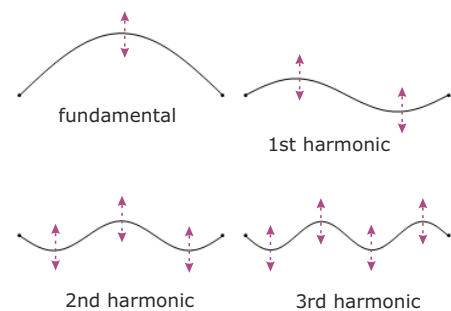


Fig.2 Standing waves, also known as a stationary, regardless if they are oscillating up and down, both their edges does not move at all.

Notice:

Since Earth radius and speed of light are both specific quantities (unchanged), means that every planetary body, when it has an atmosphere and produces lightning discharges, should have its own exclusive Schumann frequencies. These frequencies form its planetary fingerprints. Their values remain the same forever.

[1]:https://en.wikipedia.org/wiki/Schumann_resonances

Diversities of the harmonic Schoumann Frequencies

The normal Earth-ionosphere area has not a perfect spherical shape(fig.3). That causes the speed of the electromagnetic signals to be less within the cavity, thus resulting to a smaller frequency compares to that within an ideal framework. Furthermore, the resulting peaks are wider. There is also a number of asymmetries at the level of the ionosphere, changes in the width over the Earth's magnetic field, abrupt ionospheric disturbances, radioactivity adsorption from the poles, diversion of Earth's radius by 11klm from the equator to the poles etc. The outcoming result, is a variety of effects on the Schuman Frequency strength spectrum.

Harmonic Schoumann Frequencies-Daily diversities

The best recorded and studied characteristics of the Schuman Frequencies are the daily diversions from their basic strength spectrum. A daily record of activity of the SF shows the characteristics of the global activity of lightnings as well as the condition of the Earth's cavity-ionosphere. The electrical field of the SF is a measure of lightnings on a global scale. Usually, the average of the daily electrical discharges is 233 per square kilometre (aprox. 0.387 sq.miles).

The daily behavior of the E/M field, presents 3 graphical maxima, which are related to 3 "hot spots" of intense lightning activity:

The maximum at 9:00 (UTC*) is related with the increase in lightning activity in **south east Asia**.

The maximum at 14:00 is related with the increase in lightning activity in lightning activity in **Africa**.

The maximum at 20:00 is related with the increase in lightning activity in lightning activity in **South America**.

The time and the width among the maxima differ during the course of the year, thus exhibiting seasonality in the lightning activities (fig.4).

*UTC: Coordinated Universal Time

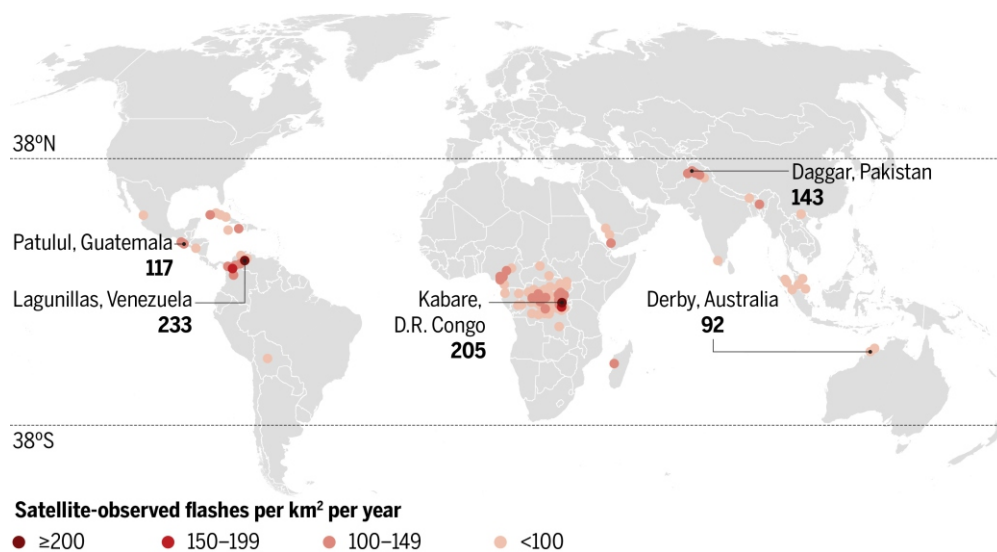


Fig.4 The world's top 100 hot spots for lightning (including the top one on each continent, labeled) at latitudes below 38°N, as measured by satellite between January 1998 and December 2013.

source: <https://www.sciencemag.org/news/2016/12/you-re-more-likely-get-struck-lightning-here-anywhere-else-earth>

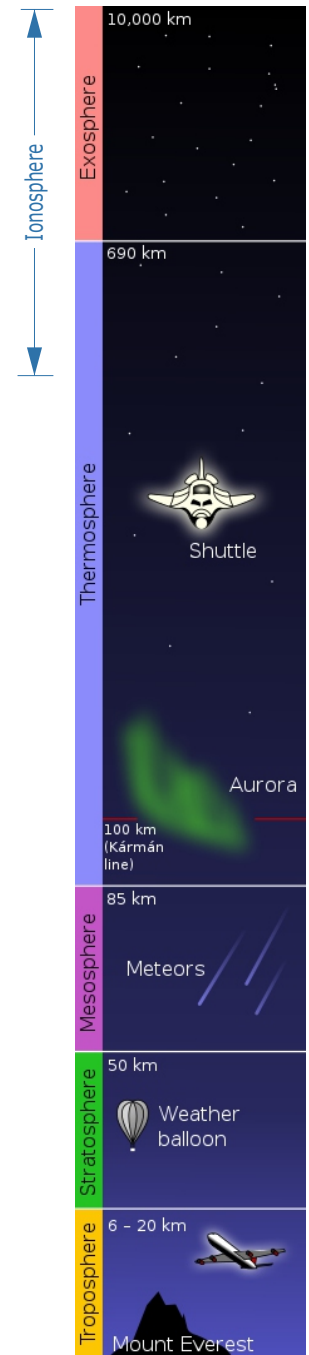


Fig.3 The layers of Earth's atmosphere. Source: <https://en.wikipedia.org/wiki/Atmosphere>

Some facts

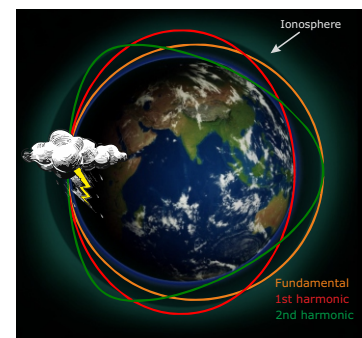
The first recorded observations of global electromagnetic resonances were made by Nikola Tesla in his laboratory in Colorado Springs in 1899. The observation led to some conclusions about the electrical properties of the Earth, which laid the foundations for its wireless network idea.

The global electromagnetic resonance phenomenon was named after the physicist Winfried Otto Schumann, who predicted it mathematically in 1952. Since then, these extremely low frequencies (ELF) of the Earth's electromagnetic spectrum, have been largely studied and explained by many institutions and scientists around the world. Because they are standing waves, unlike any other interpretation, **it is impossible to change their average frequency**, which is directly related to the size of the Earth. What we measure and observe on a daily basis are **fluctuations in the energy** carried by these standing waves, in the space between the Earth's surface and the ionosphere.

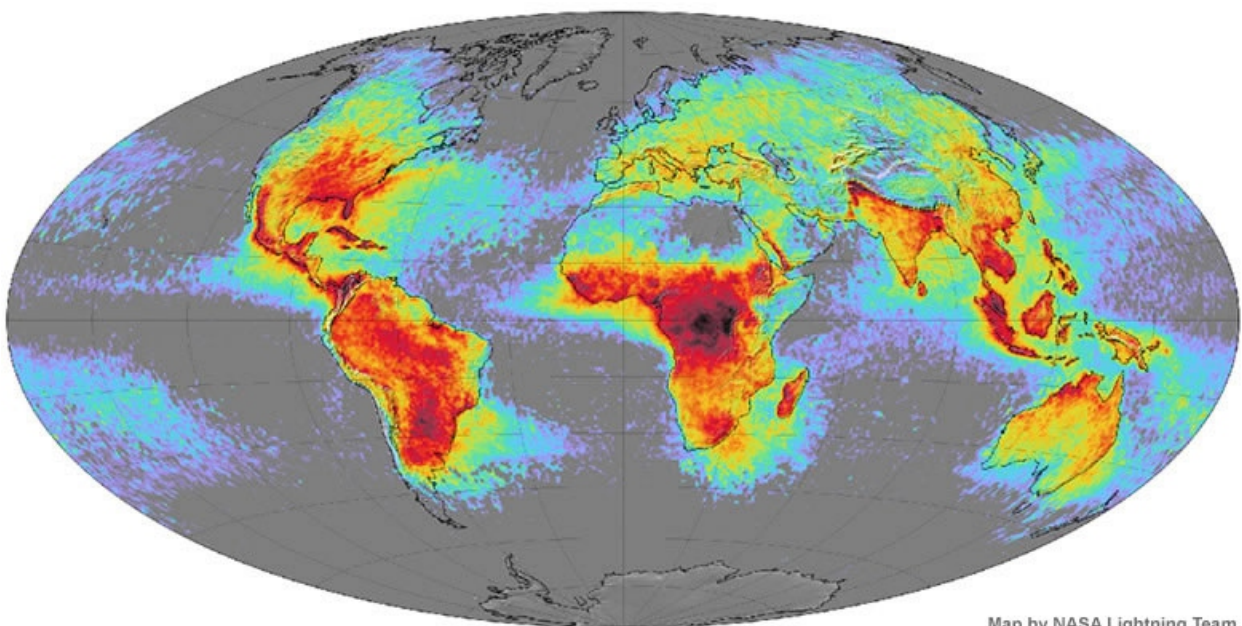
However, fluctuations in the fundamental Schumann frequency and its harmonics are often observed. This is because the ionosphere does not have a fixed height or a specific threshold. Also, the solar wind (fluctuations in solar radiation) and cosmic radiation (particles of enormous energy from our galaxy) play an important role for these frequency peaks.

Why they are formed

The biggest storms are breaking out in the tropical zone of our planet. Every time a lightning or a thunder strikes, an electromagnetic wave propagates in space. When this wave hits the ionosphere, the charged particles in it, deflect its direction forcing it to oscillate in the shell between the surface and the ionosphere. High-intensity lightning strikes generate strong waves, which penetrate more into the ionosphere. Weaker lightning will make electromagnetic waves of less energy. Hence the fluctuations in the graphs (see figure). Also note that **every second** an average of **40-50 electric discharges** are generated, in average **1.4 billion per year***.



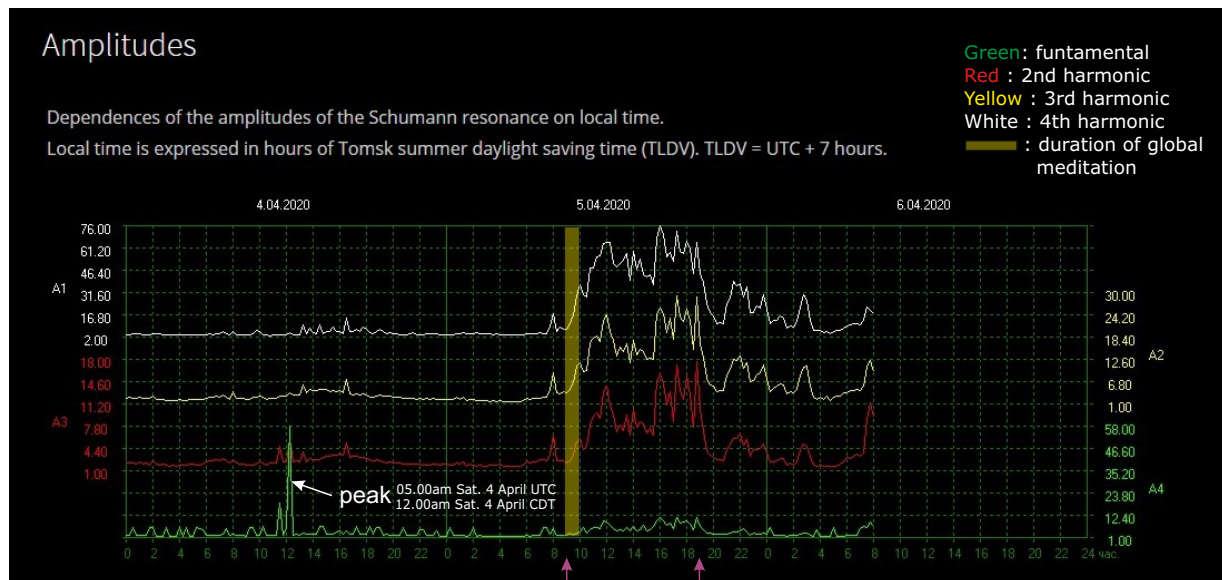
* <https://geology.com/articles/lightning-map.shtml>



Map by NASA Lightning Team

What was recorded during the global meditation on April 5th, 2020

Measuring and recording the SF is not an easy task. As their frequency lays between 3-100Hz (extremely low frequencies), the antennas on the one hand must be huge (even though there is a way to contain their size) and also they need to be placed in remote areas in order to avoid the noise created by the human activities, especially resulting from the transfer of high voltage electric current. One of the measurement centres is located in Tomsk, Russia in central Asia and another as Yellowstone in the U.S. Based on the data recorded at the time of global meditation, we will try to read the graphs, explain each one separately, and draw a conclusion as to whether, in the end, the coordination of so many people affected Schumann's planetary frequencies.



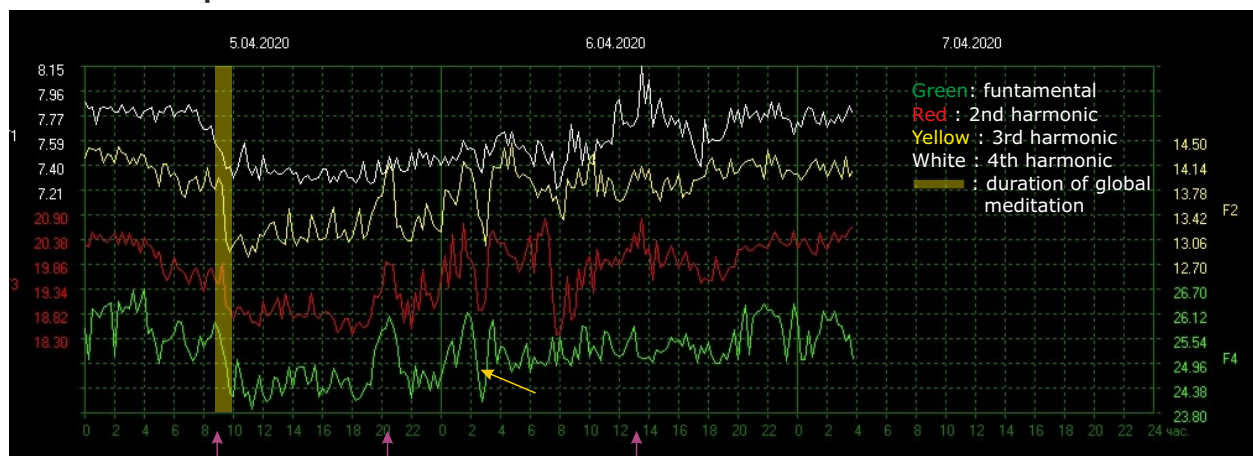
02am(Sun, 5 Apr UTC) 11am(Sun, 5 Apr UTC)
09pm(Sat, 4 Apr CDT) 06am(Sun, 5 Apr CDT)

Πηγή: <http://sosrff.tsu.ru/>

We start with a graph, which was spread by social networks. The graph is at local time Tomsk (7 hours ahead UTC) and the yellow stripe indicates the duration of the meditation. It records the width (i.e. the max energy values) of the SF. The width of a frequency (the height on diagram) reflects how much power an electromagnetic wave has (how much energy it carries) **and in no way reflects an increase in that frequency.**

Tomsk recorded a peak in the fundamental frequency at 05:00am UTC (midnight Saturday, 4 April CST) and an increase in the intensity of the 3 harmonics at the start of the meditation, which peaked 6 hours later at 11:00am on Sunday UTC (06am Sunday, 3 April CST). The total outbreak lasted about 10 hours.

Schumann frequencies chart



meditation 01.30pm(Sun, 6 Apr UTC) 08.30am(Sun, 6 Apr CDT) 06am(Mon, 7 Apr UTC) 01am(Mon, 7 Apr CDT)

Πηγή: <http://sosrff.tsu.ru/>

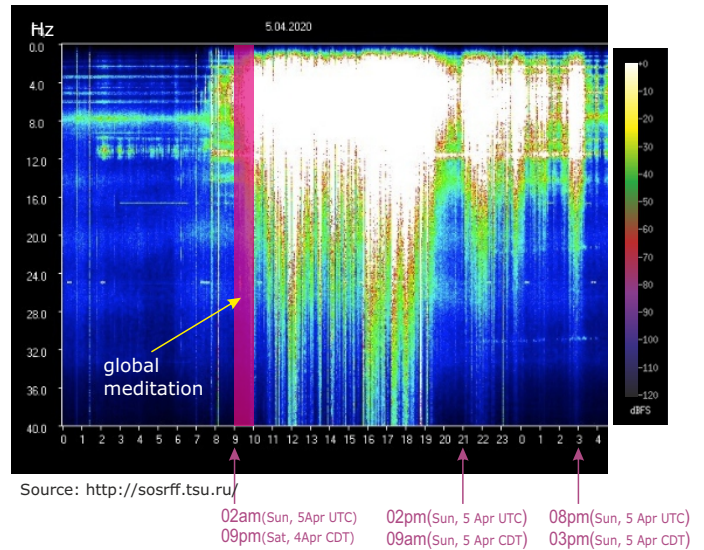
The Schumann frequency graph shows, at the beginning of the meditation there was a decrease in both frequencies (fundamental & harmonics), on average 1-1.5Hz and for the next 11 hours the frequencies were kept low. Ten hours later a peak for 3 harmonics occurred and after that, all harmonics started to rise.

Spectroscopy

Spectroscopy is a visual representation of a signal's frequencies over time. The colours correspond to the signals' intensity values expressed in decibel units (dB). The intensity indicates the flow of energy over time.

The chart (fig.6) shows that approximately an hour before the start of meditation and for 12 hours, there was a strong increase in the intensity of the electromagnetic spectrum between 2 & 40Hz. Exactly 12 hours later, the intensity decreased, while for the next 6 hours, the volume fluctuated.

Fig.7 Ionosphere energy spectroscopy



Snapshots of lightning phenomena during meditation

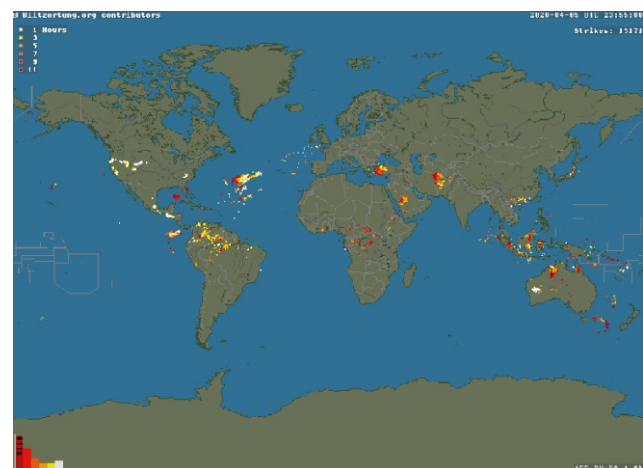
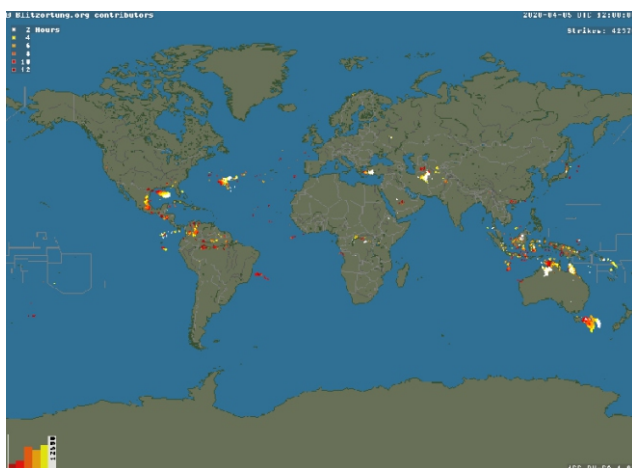
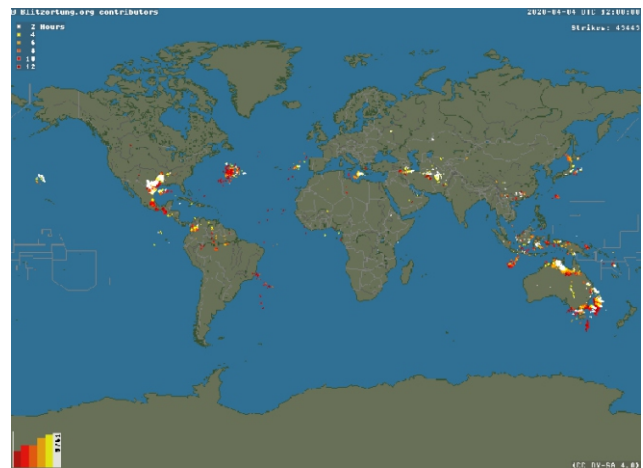
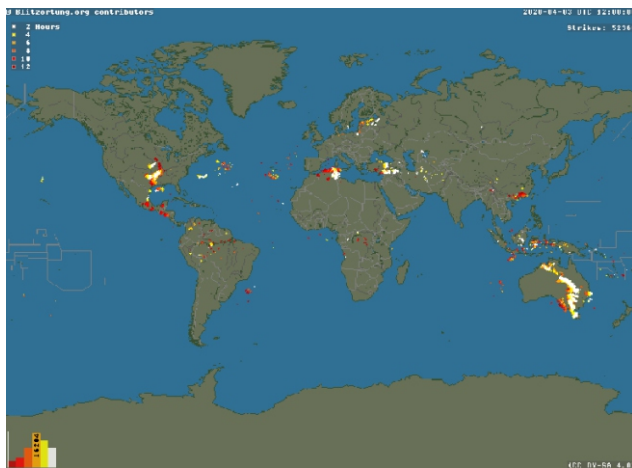


Fig.8 Maps of electromagnetic discharges during and before global meditation.

Notice how the number of discharges decreases after meditation, just as the frequency diagram showed.

Source: http://en.blitzortung.org/live_lightning_maps.php

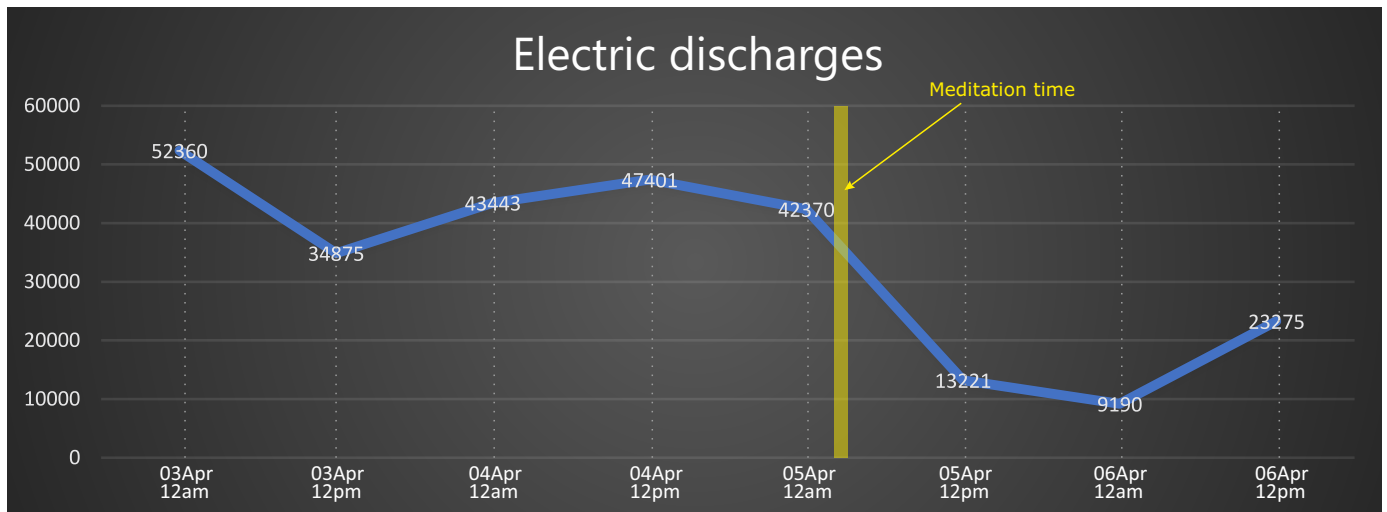


Fig.9 Diagram & number of lightning phenomena (in UTC time)

Data: http://en.blitzortung.org/live_lightning_maps.php

Final Conclusions

From the data observed we have reached the following conclusions:

- An hour and a half before the start of the global meditation and for 12 hours later, there was a significant reduction in Schumann's resonance harmonic frequencies. This means that **electric lightning strikes around the world have been reduced.** (fig.6&8)
- The increase in Schumann harmonic frequencies **is not in line with the reduction of electromagnetic discharges from lightning**(fig.9).
- One of the few we know perfectly well about Cosmos, is the **Conservation of energy**. Energy is not created or destroyed, it just changes qualities and conditions (after all, don't we all experience it over time?). This leads us to the conclusion that the electromagnetic field around the **Earth received energy from somewhere else**, as shown in the spectroscopy (fig.7).

Excluding earth activities (stormy electrical discharges), the energy source must be sought either in the sun or in cosmic radiation particles. However, according to the following diagrams, it appears that during meditation and for the following days, **the Sun had no increase in its activity**. In addition, both data on the intensity of X-rays (fig.10a) and the number of protons recorded (fig.10b) make it impossible to increase the energy flow recorded in the spectrograph. Thus, the only explanation, according to known natural laws, is that **it was caused by cosmic radiation**^[2].

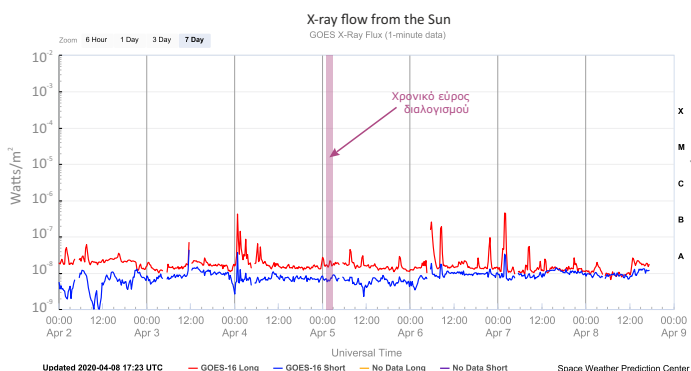


Fig.10a X-ray solar activity diagram

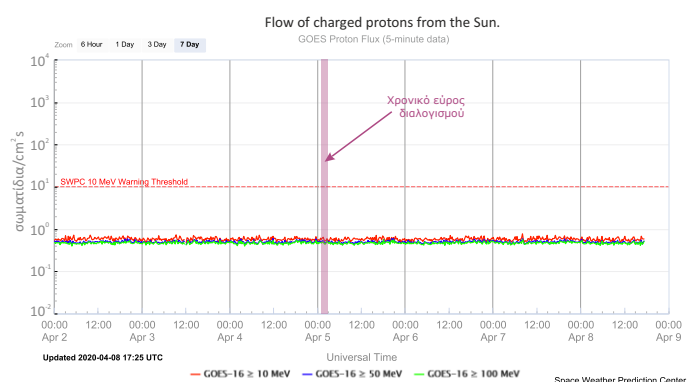


Fig.10b Proton solar activity diagram <https://www.swpc.noaa.gov/>

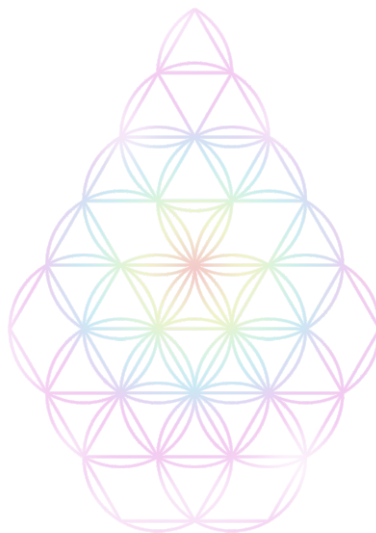
[2] Cosmic rays or cosmic radiation is a category of radiation that consists of high-energy particles that are produced in some part of the Universe away from the Earth and collide with the Earth's atmosphere with detectable results. One of the main sources of cosmic rays is supernovae, as well as huge black holes (quasars), which result in the release of huge amounts of energy.

source: https://en.wikipedia.org/wiki/Cosmic_ray

Postscript: Why is what happened on 5/4 important?

What happened on Apr. 4th was a unique event of global spiritual resonance from many people at the same time and a unique opportunity to observe and collect specific scientific data, as well. The present study showed, **the Earth did indeed receive a large amount of energy during meditation**, but in no way proves that this was caused by group coordination.

Of course, **repeating the event would be more than welcomed** as a great opportunity to gather more data from different sources. Regardless how each individual felt this experience, every individual "truths" of us all, **cannot come before the one and only Truth that must be**. That unique truth sought after by all scientists in their quest to discover it. Many of us are convinced on what transpired that day, many accounts have been made available through the internet, however these do not prove the validity of what their claims. **Let's change the sign of the pandemic**, by re-doing what happened on 5/4 and why not **to repeat it under a specific planning**, for the common good of mankind, as well as for further study by other interested parties.



Sites for further study

E/M radiation
https://el.wikipedia.org/wiki/Ηλεκτρομαγνητική_ακτινοβολία

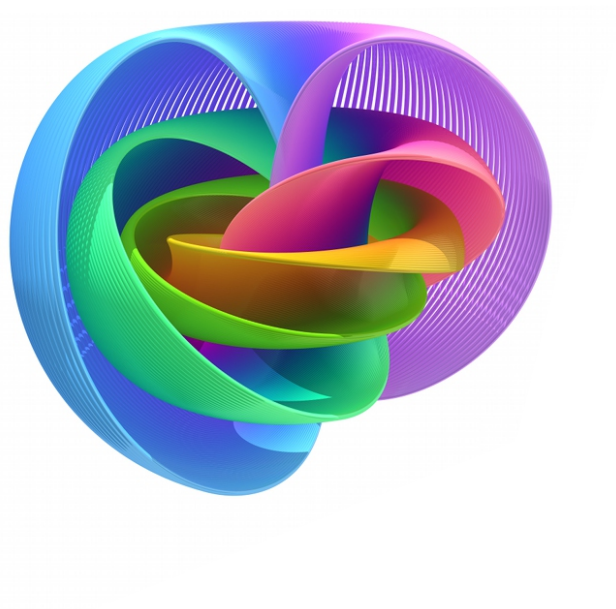
Schumann resonances
https://en.wikipedia.org/wiki/Schumann_resonances

Extremely Low Frequency Fields
Environmental Health Criteria Monograph No.238
https://www.who.int/peh-emf/publications/elf_ehc/en/

What is the Schumann Resonance?
<https://interestingengineering.com/what-is-the-schumann-resonance>

ENVIRONMENTAL HEALTH CRITERIA FOR EXTREMELY LOW FREQUENCY (ELF) FIELDS
<http://www.inchem.org/documents/ehc/ehc/ehc35.htm>

Network for Lightning and Thunderstorms in Real Time
<https://map.blitzortung.org/#1/7/42.5>
http://en.blitzortung.org/live_lightning_maps.php



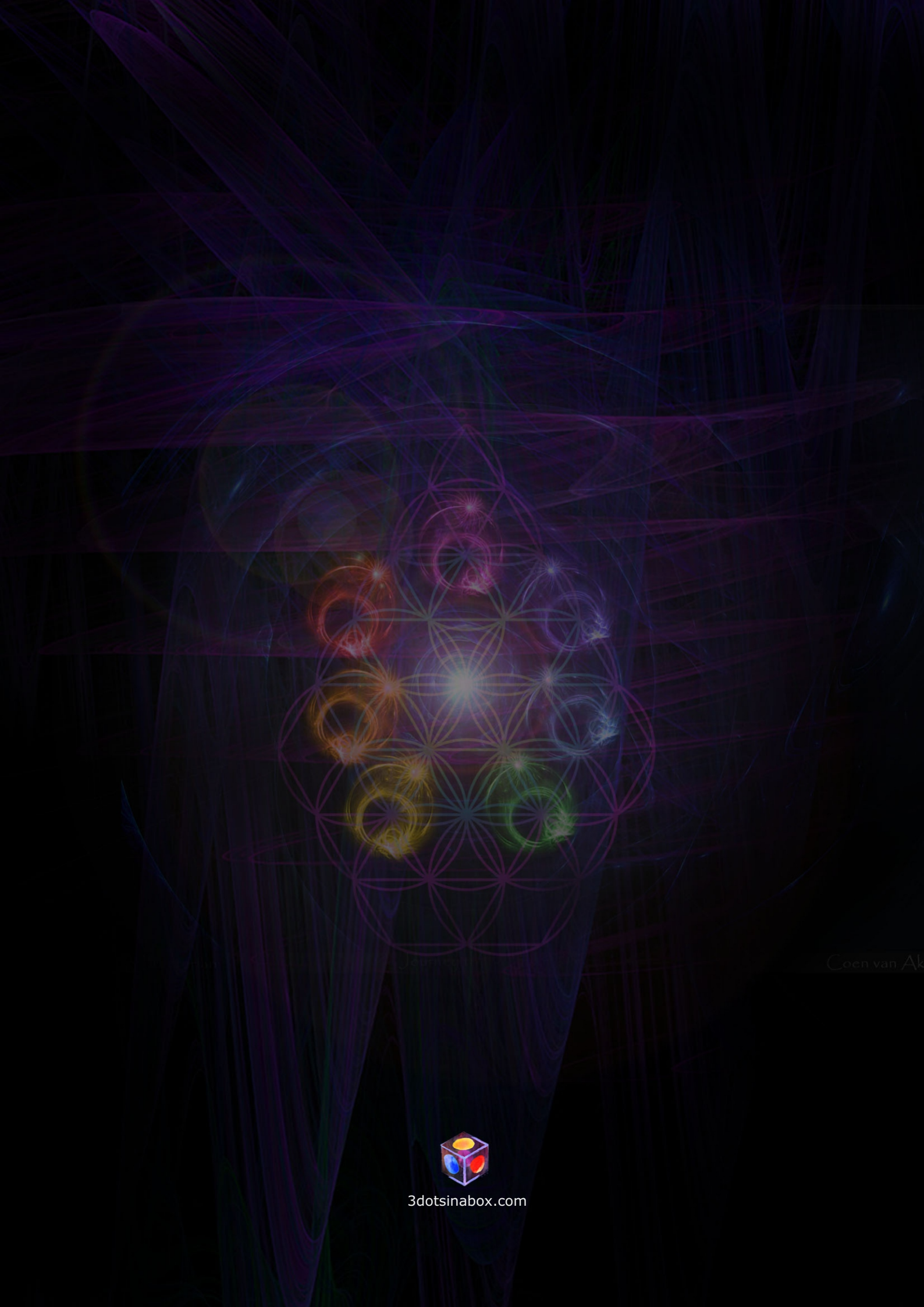
The image is the mathematical projection (shadow) of a 4-dimensional superspace in the 3-dimensional space. It was made by Niels Johnson, based on Heinz Hopf's mathematics.

sources:

<https://en.wikipedia.org/wiki/3-sphere>

<https://nilesjohnson.net/hopf.html>

https://en.wikipedia.org/wiki/Heinz_Hopf



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