



The World Foundation for Natural Science

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Restoring and Healing the World through Responsibility and Commitment in accord with Natural and Divine Law!

European Headquarters ✧ PO Box 7995 ✧ 6000 Lucerne 7, Switzerland ☎-Tel: 41(41)798 0398 ☎-Fax: 41(41)798 0399
World Headquarters ✧ PO Drawer 16900 ✧ Washington DC, 20041, USA ☎-Tel: 1(703)631-1408 ☎-Fax: 1(703)631-1919 ✧ www.naturalscience.org

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5G Satellites: The World in a Radiation Cage

For decades, scientists, medical associations and those affected have been demanding that the health effects of microwave radiation must finally be taken seriously, and the precautionary principle must be applied consistently. Countless studies¹⁾ clearly show that the radiation triggers oxidative cell stress, weakens the immune system, and opens the blood-brain barrier. Note: This is already happening with radiation intensities far below the official threshold values. Unfortunately, the recent introduction of the fifth generation of mobile communication—5G—does not yet show any awareness of the hazardous effects of microwaves. 5G is being implemented by many governments without any scientific scrutiny. Even the wake-up call of the Corona crisis “Virus meets weakened immune systems” still seems to fade unheard in the noise of governments frantically trying to do something and endless politicking on what actions to take.²⁾



The following contribution is dedicated to an aspect of the introduction of 5G, where many fundamental questions still need to be answered. It is about the global network of 100,000 planned 5G satellites³⁾ in space and their possible impact on our planet and life.

30 times more satellites

5G brings some changes. Due to the use of higher frequencies—planned up to 100 GHz—a massive expansion of the mobile antennas is necessary. This is due to the lower

transmittable distance and the increase in the transferable data volume by a factor of 100. The number of antennas will be increased tenfold!

And as if millions of antennas on the Earth's surface were not enough, tens of thousands of antennas will soon be added in space. First and foremost, it is Elon Musk's company SpaceX⁴⁾, which wants to launch up to 40,000 Internet satellites into the orbit with its "Starlink" satellite



programme. By comparison, in December 2020, "only" about 3,400 active satellites orbited the Earth.⁵⁾ That SpaceX is serious about its project is demonstrated by the fact that 1,200 new satellites were placed between December 2020 and March 2021.⁶⁾

Amazon, OneWeb, GalaxySpace and other companies also want to join the race for 5G dominance and plan to launch a total of another 60,000 satellites. This will contaminate the very last spots on the Earth's surface with microwave radiation. Moreover, who knows which technologies will be additionally installed in the satellites that could be used, for example, for military purposes? And who owns space anyway? Who decides on it? Up to now, the authorities of the respective location nation can issue permits. In the case of Starlink, it is the Federal Communications Commission (FCC) in Washington D.C., USA. The FCC is closely linked to the mobile phone industry. This American authority therefore grants permits for uses that affect the whole world. Should not an internationally recognized body, free of all conflicts of interest, decide on this? In addition to these more political questions, we should also look at why satellite radiation could be an unexpectedly big threat to life.

Natural shield under fire



All life is electromagnetic. What may sound strange at first, is not at all on closer inspection. Isn't the electron the smallest building block of all life? With its electric charge, it orbits the atomic nucleus, forms atoms and interacts with other electrons, atoms and electromagnetic fields. The main component of all life, the water molecule, is also structured as a dipole and thus has similar

properties as a bar magnet, which aligns in the magnetic field. At the cell level, the cell tension or the voltage-controlled calcium-ion channels in the cell membrane show us the connection to electromagnetism. The transmission of stimuli in the nerve pathways, the heartbeat—an electrical impulse that can be made visible in the cardiogram—or the brain currents that can be recorded with probes: these are all electromagnetic processes that form the basic essence of life. It is likely that all chemical and biological reactions are preceded by electromagnetic processes. Even the blueprint of biological organisms is determined by electric fields, as the American professor of anatomy Harrold Saxton Burr was able to demonstrate as early as the 1940s.⁷⁾ Find out more in our article [“All Life Works Electrically!”](#)⁸⁾

On the large scale as on the small: the habitat Earth and with it all life in general is embedded in a well-balanced, natural electromagnetic environment. The Earth's magnetic field extends from the North Pole over the globe to the South Pole, whereas these magnetic poles can deviate from the geographic poles and even migrate. The Earth is negatively charged compared to space, which causes a voltage difference of 400,000 volts between the Earth's surface and the upper end of the atmosphere.⁹⁾ Complex processes caused by atmospheric electricity, thunderstorm activity and charge shifts by air ions or water molecules are a natural clock for life. The ionosphere begins at an altitude of about 80 km above the Earth's surface. It is that part of the atmosphere that contains large amounts of ions and free electrons. The ionosphere is highly conductive, reaches its highest electron density at about 300 km and ends at about 1,000 km. A standing electromagnetic wave, the so-called Schumann resonance, forms between the Earth's surface and this ionosphere.¹⁰⁾ According to the Earth's circumference as wavelength, the base frequency is 7.8 Hz. Interestingly, this frequency also coincides with human brain waves at the seam between alpha and theta states.¹¹⁾ As early as 2001, New Zealand's environmental scientist Dr. Neil Cherry showed in a ground-breaking publication¹²⁾ how ionospheric disorders cause changes in blood pressure and melatonin levels and, therefore, can lead to cancer, reproductive disorders, heart and neurological diseases and even death.

On an even larger scale, all celestial bodies, from simple asteroids to moons, planets, suns, galaxies and universes, are connected to each other via electromagnetic fields and are in a permanent exchange of information. What was called aether in the late 17th century and was discarded in the meantime, is now gaining in importance again. The airless space between the celestial bodies is by no means empty, but filled with electromagnetic particles, which are present as vortex charges and are called



neutrinos.¹³⁾In his book “A beginner’s view of our electric universe”, Tom Findlay impressively describes how electromagnetism is the basic principle of the whole universe. Findlay illustrates how plasma physics can be used to consistently explain the celestial bodies known to this day—from planets, suns to galaxies, pulsars to black holes. Here, too, a basic prerequisite is that space is not simply empty, but permeated with

conductive “material”, a plasma. In this plasma, gigantic currents flow between the celestial bodies, thus ensuring an exchange of energy and information. “Everything is connected with everything”—the saying acquires a completely new and concrete meaning from this point of view, in the purely physical sense.

But back to Earth. Similar to the cell membrane, the ionosphere acts as a contact surface to the other celestial bodies and thus occupies a special position in the “organism Earth”. And it is precisely in this protective sphere, at an altitude of between 300 and 600 km, that 100,000 satellites are to be placed, which will contaminate the ionosphere, atmosphere and the Earth’s surface with sharply pulsed technical radiation. What influence does satellite radiation have on the ionosphere? Can it maintain its function? Will this affect the Schumann resonance? Will the life-sustaining charge differences between Earth and the ionosphere change? Who can answer these questions conclusively?

Weather and climate

Satellite radiation could also affect our weather and climate. Water as the main component of life reacts very sensitively to electromagnetic radiation. Various research and experiments show not only warming effects, but changes in the water structure and the forces of order, even at very low radiation intensities far below the official limits.¹⁴⁾ The water molecule reaches peak energy absorption at 2.4 GHz and is particularly sensitive. Of all frequencies, this one is



used for numerous technical applications: microwave oven, Bluetooth and Wi-Fi emit exactly at 2.4 GHz. Water vapour in the atmosphere emits a very weak signal in the range of 23.8 GHz (which corresponds to the first resonance frequency of water), which is received by weather satellites, evaluated, and used for weather and climate forecasts. Absurdly, exactly such frequency bands are also being released for 5G radio services, so that the natural water vapour radiation is superimposed and can no longer be evaluated correctly. This is already the case in the USA, and in Europe, the use of this frequency band for 5G is already planned for the future. Reliable weather or hurricane forecasting will no longer be possible.¹⁵⁾ Meteorologists worldwide are concerned about this development and demand that frequency bands close to these water frequencies should not be used technically.

But what happens to the water vapour itself if it is stimulated by technical radiation in the range of its own resonance frequency? Is the water vapour balance disturbed in the atmosphere? Is global warming accelerating?

The atmosphere is not a garbage dump



According to estimates by the European Space Agency ESA, about 10,000 satellites have been launched into near-Earth orbit since the launch of the space age in 1957, of which 3,400 are still active. 22,300 debris objects are already circling around the Earth! So it is no surprise that ESA director general Jan Wörner warns of the very great danger posed

by these pieces of debris. With the planned 100,000 5G satellites, space debris will increase many times over. Today's solution for satellite disposal is: to burn them up in the atmosphere, returning them to Earth (to sink them in the "satellite graveyard" South Pacific) or moving them into the more distant "graveyard orbit". The Starlink satellites are designed for a service life between 1 and 5 years (!)¹⁶⁾, it will be similar with the other companies. What a waste of valuable and rare raw materials such as lithium, cobalt, copper and gold! At least 20,000 failed satellites will have to be replaced and disposed of each year. The effects of rocket exhausts and the toxins released on the atmosphere by burning up space debris have hardly been studied. "Some particles are very reactive, so small amounts of them could have a significant impact on atmospheric chemistry," says Martin Ross, one of the few experts to address the issue of atmospheric pollution from carrier rocket emissions and the burning up of old satellites. The scientists Ross and Vedda of the Aerospace Corporation show in their 2018 report that the sensitive stratosphere is so disturbed by the combusive products of the rockets (gases and particles such as aluminum and chlorine) that the depletion of the ozone layer is promoted and the atmospheric radiation balance is changed, which is expressed secondarily in changing weather conditions.¹⁷⁾ Of course, sinking space debris in the South Pacific is just as stupid. History teaches us that every corpse in the basement eventually appears and must be properly "disposed of". So why not make sure from the start that this does not happen in the first place?

The International Astronomical Union (IAU) is concerned about these satellite constellations, because in addition to atmospheric pollution, light pollution is also a major problem. Astronomical observations are disturbed by the thousands of light points at the nocturnal firmament, some of which are visible to the naked eye, and space loses its original purity. In order to better understand the universe, the principle of a radiation-free night sky is essential, be it as a resource for all humanity or as well for the protection of nocturnal animals.¹⁸⁾ From a philosophical and spiritual point of view, the undisturbed view into the immeasurable starry sky gives an inkling that life itself must go far beyond our physical earthly existence.

The satellite plans are also in heavy contrast to the Space Treaty¹⁹⁾, which entered into force in October 10, 1967 and was ratified by 110 states by July 2020, including almost all states currently engaged in space activities²⁰⁾ It stipulates that the use of space should be done in such a way that "its contamination and any unfavourable change in the earthly environment as a result of the introduction of extraterrestrial substances is avoided" (Art. IX).

Are Hollywood fantasies becoming a reality?

Supposedly 5G is intended to meet users' needs, in particular data-intensive video streaming and the use of social media. Behind this, however, are much more far-reaching applications and intentions: The praised digitisation and technical network of all areas of life (Internet of Things), the progressive monitoring and manipulation of humanity, and as a "coronation" the fusion of man and machine into the so-called cyborg.²¹⁾ Are dark Hollywood fantasies becoming a reality? The World Economic Forum (WEF) gives high priority to "Human Enhancement"—the technical extension of the apparently imperfect human being—as well as 5G²²⁾ ²³⁾ Research is already taking place: In August 2020, media²⁴⁾ announced that Neuralink had succeeded in implanting a brain chip on pigs and controlling them through their smartphones. In February 2021, it was additionally announced that monkeys would now enjoy video games thanks to a brain chip.²⁵⁾ The goal is to "make technology usable for humans," said Elon Musk, founder of Neuralink, to the US portal Axios.²⁶⁾)) Thanks to an interface, man should be able to control devices through his thoughts alone or to be able to exchange with other people (and machines) by means of "artificial telepathy". It goes without saying that this requires powerful, radio-based networks that cover every angle of the earth. Not only does it open the door to absolute control and manipulation, but man as an individual is deprived of his reason for existence and separated from his spiritual core. Is it not the case that man is destined to constantly learn, gain experience and develop? However, this is only possible if he has the freedom of choice and can make decisions independently.

Is the presumption that Starlink and Neuralink go hand in hand with the goal of creating the "Superman" from whom his humanity is taken away and who thus is ultimately robbed of the meaning of life?²⁷⁾

Resistance arises

In addition to countless activities, civic movements, initiatives and appeals at the regional level, there is also resistance on the international stage. The American Arthur Firstenberg²⁸⁾ launched the *International Appeal Stop 5G on Earth and in Space* in 2018, which has been signed by more than 300,000 scientists, doctors, environmental organizations and citizens from 214 nations by the end of March 2021.²⁹⁾ It is addressed

to the United Nations (UN), the World Health Organisation (WHO), the European Union (EU), the Council of Europe and the governments of all countries of the world and calls for “an immediate halt to the expansion and deployment of the 5G radio network (fifth generation Internet), including the use of 5G transmission systems on space satellites [...] The harmful effect of radiofrequency radiation on humans and the environment has been proven. The use of 5G is an experiment on humanity and the environment, which is defined as a crime by international law.” In order for this call to finally be heard, everyone can become active: talk to politicians or your friends and neighbours, write letters, participate in national or international appeals and engage in the education about these facts and open questions. Unfortunately, in the general digitisation craze, too many government representatives and media fail to provide balanced information on *all* aspects of 5G. And most importantly: Be a role model yourself, in everything you say or do.

Our vision for the future



As exciting and helpful as technological progress is in many ways, one thing must NEVER be forgotten: technology is merely an aid, a tool designed to serve man and the realisation of his life's mission. On humanity's path of development, we have reached a point where our actions could have global repercussions, even as far as the extinction of life and the destruction of the entire

planet. The unbridled pollution and harassment of all life by microwave radiation is one of these effects. It is therefore high time to explore our reason for existence and to orient our lives towards fulfilling this reason. This is not possible in the noise of the uninterrupted temptations and empty promises of the entertainment and distraction industry or the mass and “social” media—about which absolutely nothing is social except the name. This is only possible by listening to the organ which provides the strongest magnetic force and connects people: Our heart!



References

- 1 Good overviews of the study situation can be found here: <https://www.bioinitiative.org>, <https://www.emfdata.org>, <https://www.emf-portal.org>
- 2 Read our fact sheet about this «5G and Corona» <https://www.naturalscience.org/publications/how-the-fifth-generation-wireless-standard-5g-contributes-to-the-corona-pandemic/>
- 3 We use the terms 5G satellite or internet satellite equivalently, knowing that the technical details or differences in terms of environmental impact are absolutely irrelevant. Both terms ultimately stand for internet services via satellite.
- 4 Elon Reeve Musk is the founder of various technology companies such as Tesla (electric vehicles), SpaceX (space company), Neuralink (human-machine networking) and others.
- 5 Corresponding to <https://de.statista.com/statistik/daten/studie/36582/umfrage/anzahl-der-satelliten-im-all-verteilt-nach-laendern/> This includes the first thousand Starlink satellites, which were launched into orbit in the course of 2020.
- 6 According to Wikipedia in the article on “Starlink”, with reference to <https://www.space-track.org> (March 11, 2021)
- 7 As early as 1939, Harrold Saxton Burr proved that salamanders have an electrical field that is created and measurable even before they hatch from the egg. He was thus able to show that there is obviously a blueprint in the form of an electric field even before physical manifestation.
- 8 See <https://www.naturalscience.org/news/2021/04/all-life-works-electrically/>
- 9 Richard P. Feynmann et al, 1963: Electromagnetism and the structure of matter
- 10 The Schumann resonance is named after the German physicist Winfried Otto Schumann, who predicted this resonance phenomenon and which was later confirmed experimentally.
- 11 Based on the distribution of typical brainwave frequencies, certain basic types of states of consciousness can be identified. Delta state (0.4 – 3 Hz): deep sleep, trance or deep hypnosis; theta (3 – 8 Hz): meditation and deep relaxation; alpha (8 – 12 Hz): light relaxation; beta (13 – 21 Hz): good attention and intelligence or (21 – 38 Hz) permanent alertness.
- 12 Neil Cherry, 2001: Schumann Resonances, a plausible biophysical mechanism for the human health effects of Solar/Geomagnetic Activity, https://www.salzburg.gv.at/gesundheits/Documents/cherry_schumann_resonances.pdf
- 13 Anyone who would like to take a closer look at the subject of neutrinos and scalar waves will find extensive information in the writings of Prof. Dr.-Ing. Konstantin Meyl.
- 14 Detailed documentation by Denise Ulrich, 2020, «Auswirkungen von Mobilfunk auf Wasser und Leben», <https://www.elektrosmog-info.ch>
- 15 See report in the journal Nature: <https://www.nature.com/articles/d41586-019-01305-4>
- 16 (<https://www.space.com/see-spacex-starlink-satellites-in-night-sky.html>)
- 17 Martin Ross, James A. Vedda: The policy and science of rocket emissions, April 2018: https://aerospace.org/sites/default/files/2018-05/RocketEmissions_0.pdf

- 18 See <https://www.iau.org/news/announcements/detail/ann19035/>
- 19 The official title is: Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space, Including the Moon and Other Celestial Bodies. See https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/270006/Treaty_Principles_Activities_Outer_Space.pdf
- 20 According to Wikipedia, https://en.wikipedia.org/wiki/Outer_Space_Treaty
- 21 The term cyborg is an acronym derived from the English “cybernetic organism”. This refers to a human being whose body is supplemented by artificial components.
- 22 See <https://www.weforum.org>. In the meantime, some contributions on “human enhancement” have been deleted again and can only be found in fragments in the archive. See also the contribution of the European Academy on Religion and Society EARS <https://europeanacademyofreligionandsociety.com/news/coronavirus-and-the-transhuman-future/>
- 23 5G and digitalisation are being touted by the WEF as a panacea that promises gigantic revenues and profits. The tenor: Those who do not participate will become extinct.
- 24 <https://www.kronenzeitung.at>, , retrieved on 30.8.2020. Article can no longer be found. See also: BBC News (29 August 2020), Neuralink: Elon Musk unveils pig with chip in its brain, <https://bbc.co.uk/news/world-us-canada-53956683>
- 25 See <https://de.rt.com/gesellschaft/112677-elon-musks-neuralink-startup-pflanzt-chip-affengehirn/> or <https://futurezone.at/science/elon-musks-neuralink-implantiert-affen-einen-chip-fuer-videospiele/401175634>
- 26 The article dates back to November 26, 2018: <https://www.axios.com> (Keyword «Elon Musk»)
- 27 Musk fears that humans are being overtaken by artificial intelligence and therefore need to be upgraded by technology—again, artificial intelligence! This is the only way humans can ensure their survival. According to <https://www.axios.com/elon-musk-humans-must-merge-with-machines-1543240787-c51eee35-8cb3-4684-8bb3-7c51e1327b38.html>
- 28 The US scientist and author Arthur Firstenberg became famous with his book “The Invisible Rainbow”, which shows the connections between the electrification of the Earth and health effects and pandemics. See <https://www.cellphonetaskforce.org/>
- 29 <https://www.5gspaceappeal.org/the-appeal>

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