

THE INFLUENCE ON HEALTH FROM LONGITUDINAL ELECTRIC WAVES



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This report is published by

**Hans Giertz
Miklagård Research
Leksandsv 23
167 75 BROMMA
SWEDEN**

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ISBN 978-91-976841-2-5

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By

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ABSTRACT

The third most common electric wave on Earth, next to heat and light, is low frequency longitudinal electric waves. Heat and light has a very large influence on life on Earth, longitudinal electric waves plays an important role as well. Living organisms like plants, trees, animals and humans pick up this energy by resonance. It's believed that it plays an important role in the immune system. This paper describes, in scientific terms, the mechanism behind phenomena known as the human aura and healing.

1. INTRODUCTION

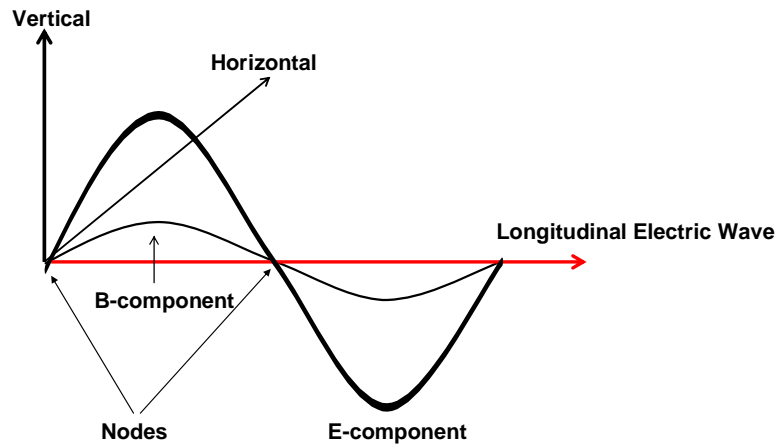
The paper "Longitudinal electric waves created by the solar wind and Earth rotation" (1) describes how the surface of the Earth is encompassed by low frequency longitudinal electric waves. Since the start of life on earth living organisms have been exposed to this energy. Longitudinal electric waves have very special characteristics, different from the electromagnetic energies heat and light. When an organism leard to utilize this energy it had gained an advantage that made him more fit to survive. This paper describes how organisms learned to utilize longitudinal electric waves by means of resonance. This mechanism goes back to early forms of life. This paper shows how this mechanism has remained in different forms of life like plants, trees and humans. This paper describes the coupling between this energy and our health. It describes how our health is influenced when this energy is disturbed.

2. REPETITION ON LONGITUDINAL ELECTRIC WAVES

In order to understand this paper it's a prerequisite to read the paper "Longitudinal electric waves created by the solar wind and Earth rotation". Here follows a short repetition of the most important parts.

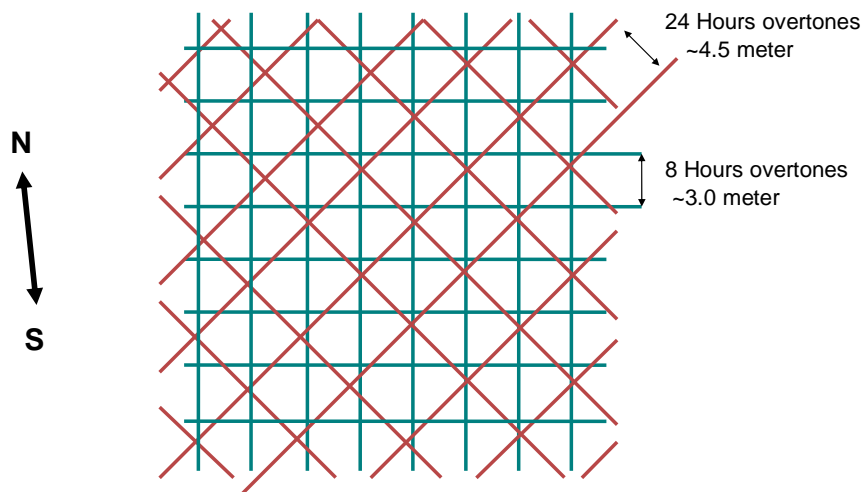
The longitudinal electric wave consists of slowly propagating and oscillating electrons. When the longitudinal electric wave propagates through the magnetic field lines of the Earth it induces an electric field (E-component) and a magnetic field (B-component).

LONGITUDINAL ELECTRIC WAVE ELECTRIC & MAGNETIC COMPONENT



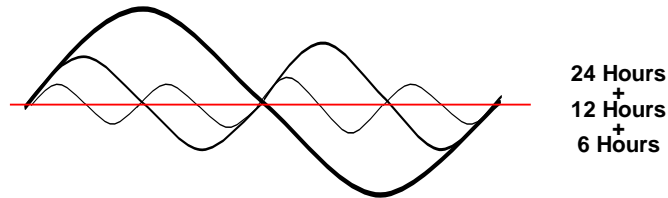
The longitudinal electric wave is created by the electrons in the solar wind and the Earth rotation. Therefore the longitudinal electric waves always consists of waves with the period 24 hours and its even overtones or longitudinal electric waves based on the third overtone i.e. $24/3=8$ hours and its even overtones. The longitudinal electric waves based on 24 hours and its even overtones form one grid that encompasses the surface of the Earth. The longitudinal electric waves based on 8 hours and its even overtones form another grid.

THE 24 HOURS & 8 HOURS GRID



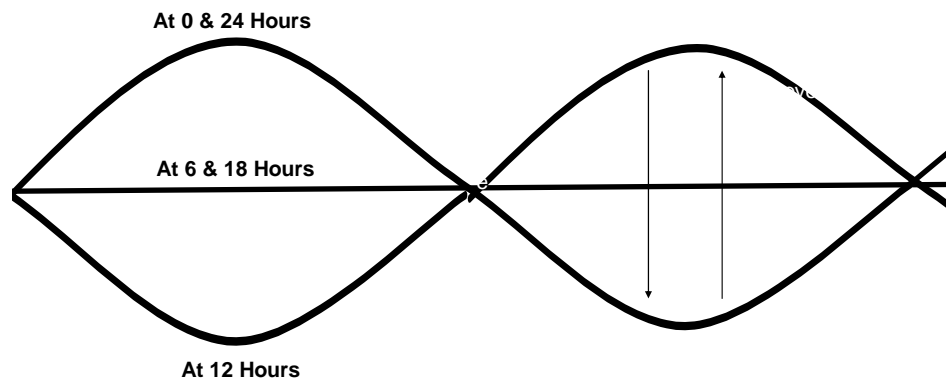
Every longitudinal electric wave consists of its basic period and all even overtones. For instance a 24 hour period wave also contains the periods 12, 6, 3, 1.5 hours and 45, 22.5, 11.2, 5.6 and 2.8 minutes.

THE LONGITUDINAL ELECTRIC WAVES CONTAIN EVEN OVERTONES



The amplitude of the antinodes vary with time, they vary with the same period as the period of the longitudinal electric wave. This makes the E- and B-component vary with time and it enables us to measure the period and phase of a wave.

THE ANTINODES OF THE LONGITUDINAL ELECTRIC WAVE VARIES WITH TIME



The (earth) longitudinal electric wave is amplitude modulated, i.e the amplitude of the antinodes varies with the same period as the period of the wave

The longitudinal electric waves are very different from electromagnetic waves such as heat and light as can be seen from the chart below. The longitudinal electric waves consist of coherent energy that is organised down to smallest detail. It represents complete order and we will find the same pattern everywhere on the surface of the Earth. Waves that are coherent and precisely organized create resonance easily. The longitudinal electric waves create resonance

easily. We can almost phrase it the other way around; it's difficult to avoid resonance. The observations made in this paper builds 100 % on resonance phenomena that occur in living cells when they are subjected to longitudinal electric waves.

LONGITUDINAL WAVES

Extremely low frequency

Few discrete frequencies, overtones of 24 hours

Propagates in well defined lines

Allways standing waves

All energy is coherent

Allways the same polarization

Very large depth of penetration

HEAT & LIGHT

Very high frequency

Random mix of frequencies

Semi random direction

Random

Not coherent

Random polarization

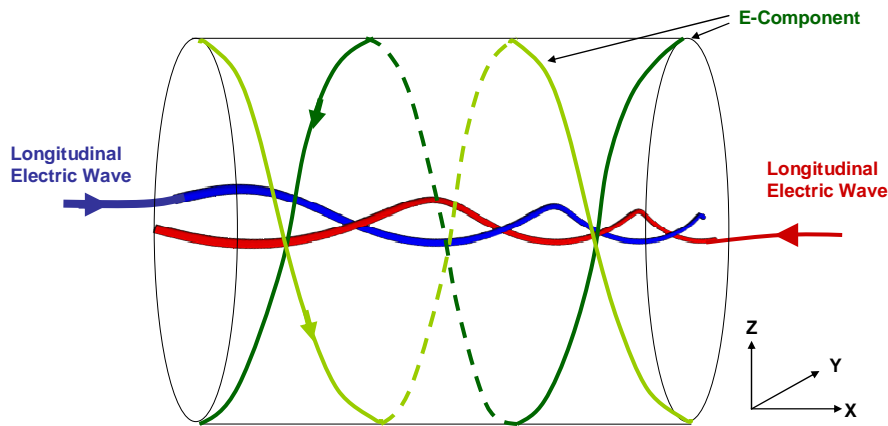
Short depth of penetration

3. BASIC RESONANCE PATERNS

The longitudinal electric waves that are created by the Earth rotation create resonance easily. An object which has a resonance frequency that is an even overtone of the 24 hours period or 8 hours period picks up energy from the 24 hours or 8 hours grids. That object transmits a longitudinal electric wave with that particular period. As an example a 12.8 cm (i.e. 65.6/512 meters) long wire will pick up energy with the period 2.8 minutes (the 9th overtone of 24 hours) and transmit a longitudinal electric wave with the period 2.8 minutes. Such resonance is very common in nature. Crystal structures create such resonance. Living cells create such resonance.

We can direct two longitudinal electric waves parallel to each other but in opposite directions. Their electric fields interacts, it changes the direction of propagation into a double helix shaped propagation. The electric fields of the double helix shaped longitudinal electric waves interact with the Earth magnetic field lines. This induces electric fields (E-components) that are shaped like a double helix. This double helix propagates like a "cylinder" along the longitudinal electric waves.

LONGITUDINAL ELECTRIC WAVES FORM DOUBLE HELIX

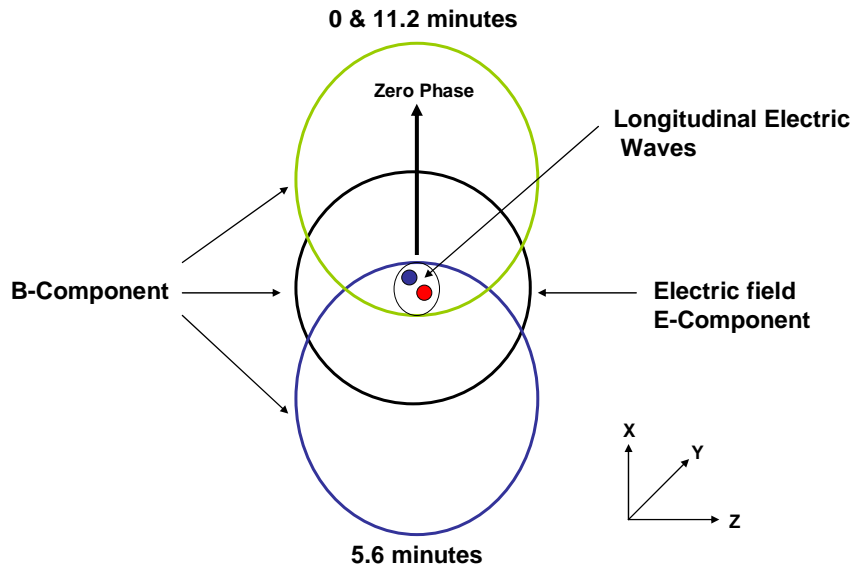


TWO LONGITUDINAL ELECTRIC WAVES THAT PROPAGATE IN OPPOSITE DIRECTIONS WILL PROPAGATE IN A DOUBLE HELIX. THIS INDUCES A DOUBLE HELIX FORMED ELECTRIC FIELD (E-COMPONENT)

One turn of the E-component around the “cylinder” equals one wavelength. In the previous chapter we learned that the amplitude of the longitudinal electric wave varies with time (with the same period as the wave itself). Therefore the amplitude of the induced E- and B-components varies with the same period. The polarization plane of the E-component is in the X direction in the above picture. The polarization plane of the B-component is in the Y and Z direction, i.e. the B-component varies in and out perpendicular to the surface of the “cylinder”. This is shown in the below picture. The example shows how the B-component from longitudinal electric waves with the period 11.2 minutes varies. In other words we can measure the period with which the B-component varies and in that way decide the period of the longitudinal electric waves that form the double helix. The longitudinal electric waves have a fixed phase in relation to the surroundings; therefore the E- and B-components have a fixed phase as well. In the below picture we have nominated the “zero phase” direction, it has a bearing to the following chapter.

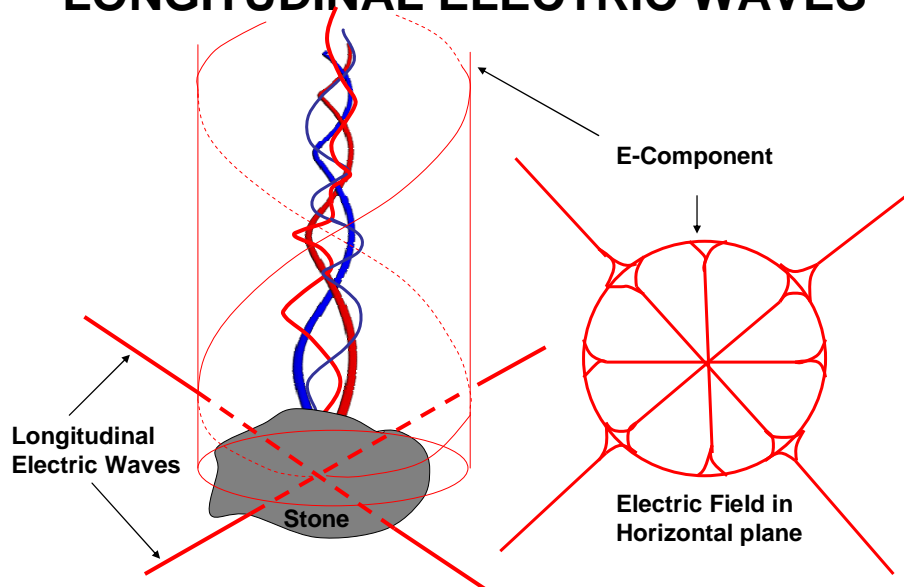
The conclusion is that when two longitudinal electric waves (with the same period) propagate close and parallel to each other but in opposite directions they form a double helix. It induces double helix shaped electric and magnetic fields. The electric fields are formed like a “cylinder”. The magnetic fields move out- and inwards perpendicular to the surface of the “cylinder”. The electric and magnetic fields have a fixed phase. This is probably the most common resonance pattern on the Earth. In order to simplify the rest of this paper we call this resonance pattern; **resonance pattern A**

THE AMPLITUDE OF THE B-COMPONENT VARIES



A very common resonance pattern is formed when an object like a stone or piece of iron is placed on the spot where two longitudinal electric waves in the 24 hours grid or 8 hours grid cross. At this spot we have two coherent energies with the same period that propagate 90 degrees to each other. They interact with the object and create resonance. The mechanism behind this resonance remains to be understood. It might be the non-linearity of the object that causes the resonance or the property of the electron spin in the molecules. The resonance creates double helix shaped longitudinal electric waves in the vertical direction. The longitudinal electric waves in the 24 and 8 hours grids contain even overtones. Therefore a number of double helixes are created, each having its specific period. Each of these double helix shaped longitudinal electric waves induces double helix shaped E- and B-components. The pattern is rather complicated but in the horizontal plane (two dimensions) it looks like a circle with rays radiating from the centre towards the periphery of the circle. It looks like petals of a flower. This resonance pattern is formed when the following matter is placed on two crossing longitudinal electric waves in the 24 or 8 hours grids: iron, bronze, salt water, crystal glass, flint ware, trees, plants, animals and humans. The following matter does not create resonance; glass, tin, brass, aluminium, distilled water, dry wood. In order to simplify the rest of this paper we call this resonance pattern; **resonance pattern B**

STONE IN TWO CROSSING LONGITUDINAL ELECTRIC WAVES



4. RESONANCE PATTERNS IN TREES AND PLANTS

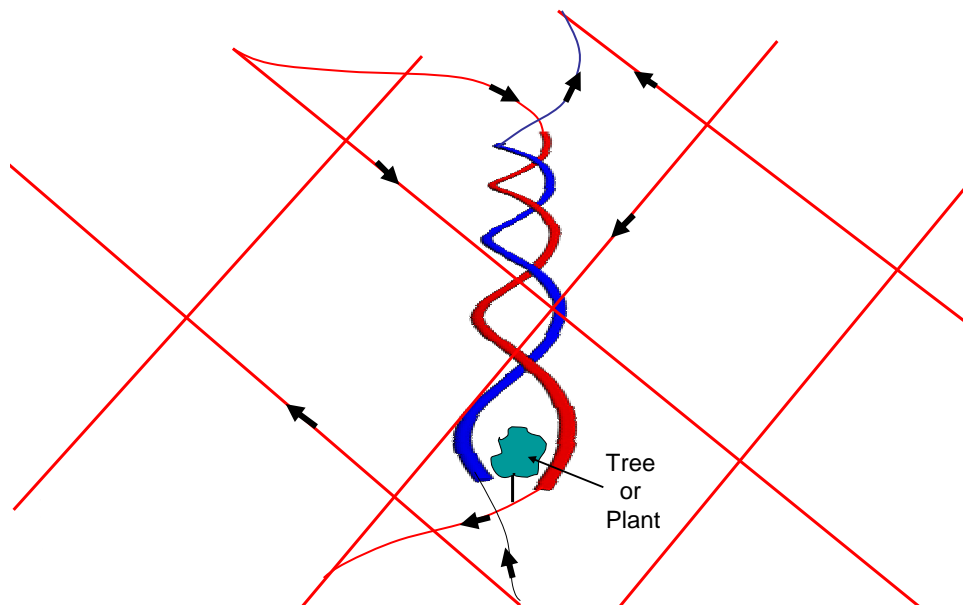
We are now ready to investigate resonance in trees and plants. The cell structure in trees and plants create the same type of resonance:

- It creates two longitudinal electric waves with the period 5.6 minutes (8th overtone of 24 hours). The two longitudinal electric waves origin from the surrounding 24 hours grid. One is extracted from the 24 hours grid and starts at the bottom of the tree or plant and propagates along the trunk of the tree or plant. A few meters above the plant it connects to the closest wave in the 24 hour grid, choosing the correct direction. The other longitudinal electric wave propagates in the opposite direction and it connects to waves in the 24 hours grid having the opposite direction. The two longitudinal electric waves form a double helix and they create helix shaped electric and magnetic fields in exactly the same way as described in the previous chapter, **resonance pattern A**. It's important to note that the longitudinal electric waves origin from the surrounding 24 hours grid, the cells of the tree only filters out the correct period and directs the wave. This is done by means of a resonance mechanism.
- It creates two longitudinal electric waves with the period 11.2 minutes (7th overtone of 24 hours). They form double helixes, electric and magnetic field in the same way as above. The only difference is that the diameter of this pattern is approx. twice as large as the pattern formed by the 5.6 minutes resonance.
- The electric and magnetic fields have a fixed phase. All trees and plants in one region or a forest have the same phase, this phase is 100% synchronised to the phase of the 24 hours grid. The zero phase (see definition in previous chapter) has the same direction in a very wide are (more than 200 km) around Stockholm. Plants and trees that grow close have fields that interact. If their energy is in phase they will add and the overall energy will be large. If the phase is random they will cancel each others energy, the overall energy will be low. The author planted eight apple trees in random directions a year ago. One year later all of the trees have changed their phase (the

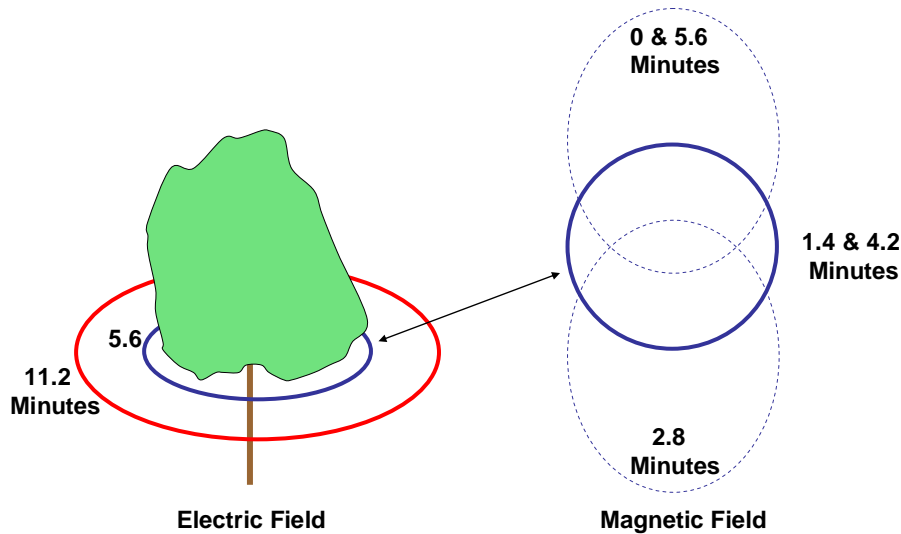
direction of the zero phase) in the same direction as the rest of the trees on that farm. It's commonly known that some trees (like juniper) will not survive when we replant them unless we maintain their geographical direction.

- The only difference between a plant and a tree is that the larger trunk of the tree generates longitudinal electric waves with larger amplitude, therefore the diameter of the induced electric and magnetic field is larger.
- The amplitude of the double helix longitudinal electric waves (and the diameter of the E- and B-component) relates to the well being of the plant. When we water the plant the amplitude increases. When we expose it to light the amplitude increases. When we press one of its leafs between our fingers or cut it off the plant immediately decreases the amplitude to almost zero. When the plant dies the longitudinal electric wave disappears. It's obvious that this energy has an influence on the biophysics of the plant.

TREES AND PLANTS CREATE DOUBLE HELIXES



THE ELECTRIC AND MAGNETIC FIELDS OF A PLANT OR TREE

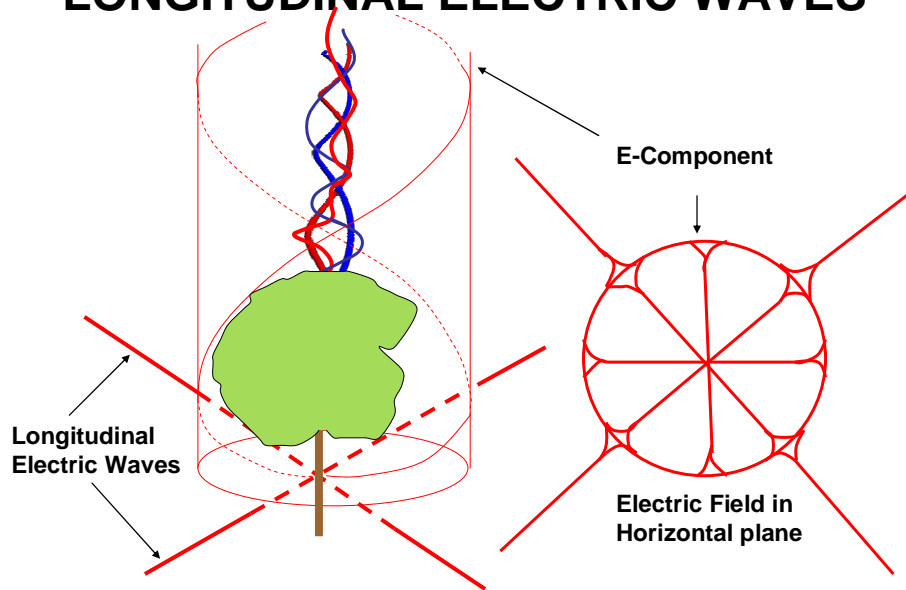


The fields are shown in the horizontal plane (two dimensions)

A tree that grows where two longitudinal electric waves in the 24 hours grid cross has a completely different resonance pattern. The pattern is the same as the **resonance pattern B** described in the previous chapter. The cell fluids of the trunk create the same type of resonance as a stone or piece of iron that is placed on two crossing longitudinal electric waves. The **resonance pattern A** is seriously weakened or disappears completely. Note that **resonance pattern B** is not created by cell resonance; it's created by the matter in the tree, i.e. the cell fluids.

A tree that grows on two crossing longitudinal electric waves in the 8 hours grid creates two resonance patterns; one **resonance pattern A** with the periods 5.6 & 11.2 minutes and one **resonance pattern B** with the 8 hours period (overtones from 8 hours). In this case the **resonance pattern A** is not cancelled by the **resonance pattern B**. The conclusion is that it's not the **resonance pattern B** in itself that cancels **resonance pattern A**. **Resonance pattern A** is cancelled when **resonance pattern B** has the same frequency or period. The cancelling is caused by interference between longitudinal electric waves that have the same period. The resonance phenomena that have been described seem to follow the general laws of electromagnetism.

TREE IN TWO CROSSING LONGITUDINAL ELECTRIC WAVES



A forest often contains many damaged trees, they have outgrowths, they are dead, they loose their bark, they bend, they twist and they split. These damaged trees have one thing in common; they almost always grow on top of two crossing longitudinal electric waves in the 24 hours grid. The correlation is almost 100% according to the authors experience and many others reports. The process is very slow, it takes years or decades before the trees show any damage. In many cases the trees survive by splitting the trunk close to the root or bending away from the point where the longitudinal electric waves cross. In that case the cells of the trunk will not create **resonance pattern B**, or only in a limited way.



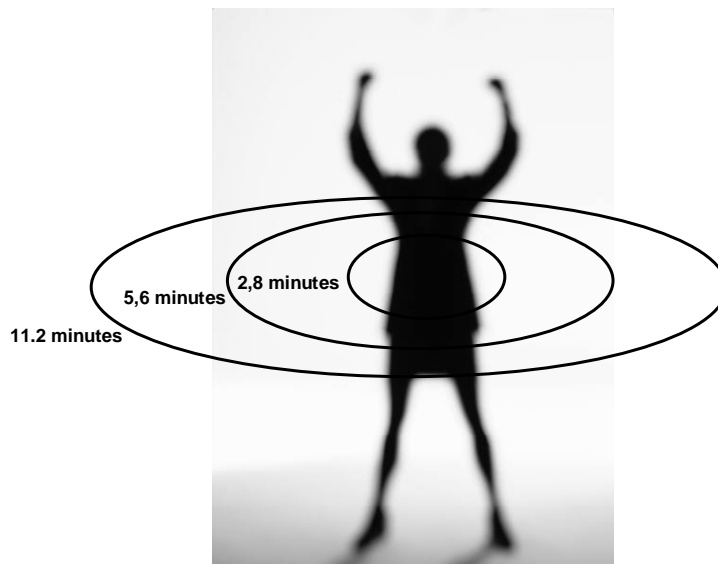
The conclusion is that trees and plants create resonance. The cells or cell structures create resonance that generates two longitudinal electric waves with opposite directions which have the period 5.6 minutes and two that have the period 11.2 minutes. These waves form double helixes and induce electric and magnetic fields that surround the tree or plant. If that tree or plant grows on top of two crossing longitudinal waves which have the same period, interference will occur. This interference cancels the above resonance, the tree or plant is not able to create resonance. There is a large correlation between damaged trees

and the fact that they grow on top of crossing longitudinal electric waves in the 24 hours grid.

5. RESONANCE PATTERNS IN HUMANS

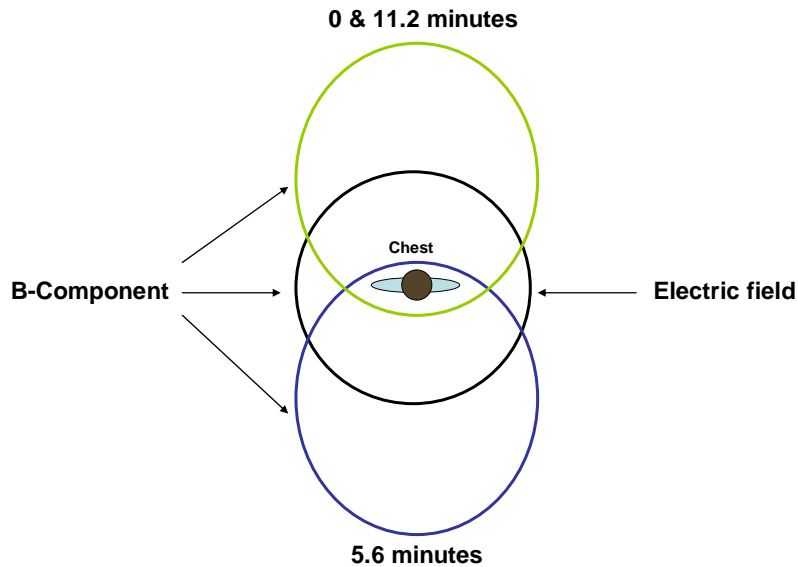
The human body creates exactly the same type of resonance as trees and plants. The human body creates resonance patterns with the period 5.6 minutes and 11.2 minutes. When we measure these fields there is no way we can distinguish between a human, a large plant or a small tree. The energies are exactly the same. The human is however somewhat different; we also create resonance at 2.8 minutes. The below picture shows the electric fields that surrounds a human. The longitudinal electric waves, the electric and magnetic fields are exactly the same as the ones described in the previous chapter.

THE ELECTRIC FIELD OF A HUMAN



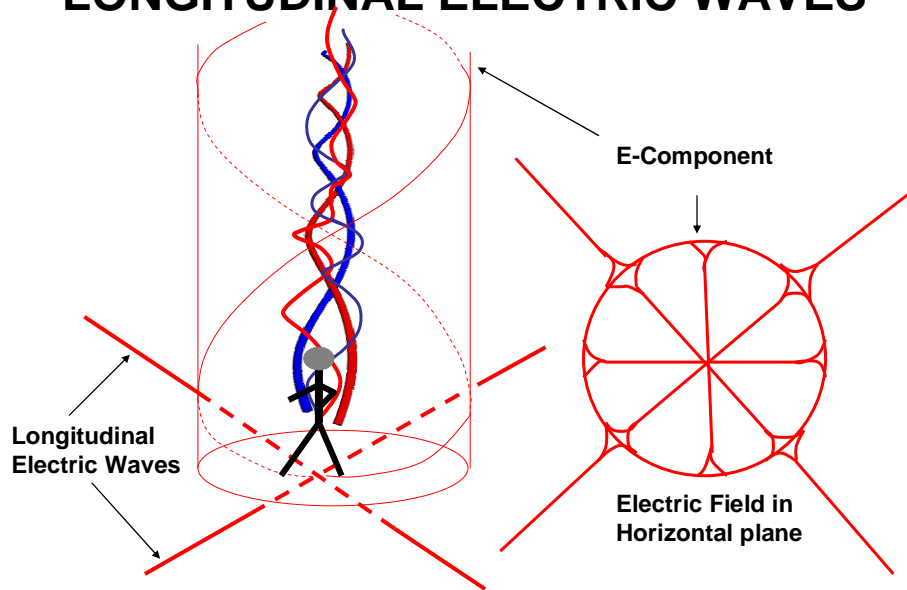
The electric field that surrounds a human is well known, it's often called the aura. The magnetic field (B-component) varies in exactly the same way as the magnetic fields of a tree or a plant. The electric and magnetic fields have a fixed phase. The direction of the zero phase (see definition in chapter 3) is perpendicular to the persons chest. All males (that the author has measured) have the same phase, all females (that the author have measured) have the opposite phase (180 degrees opposite). This means that when a man and a woman stand in front of each other (chest to chest) their energies interact and the overall energy is twice as large. It's pleasant to stand in front of the opposite sex. When two men or women stand close in front of each other their energies cancel each other, the energy is zero.

THE ELECTRIC AND MAGNETIC FIELD



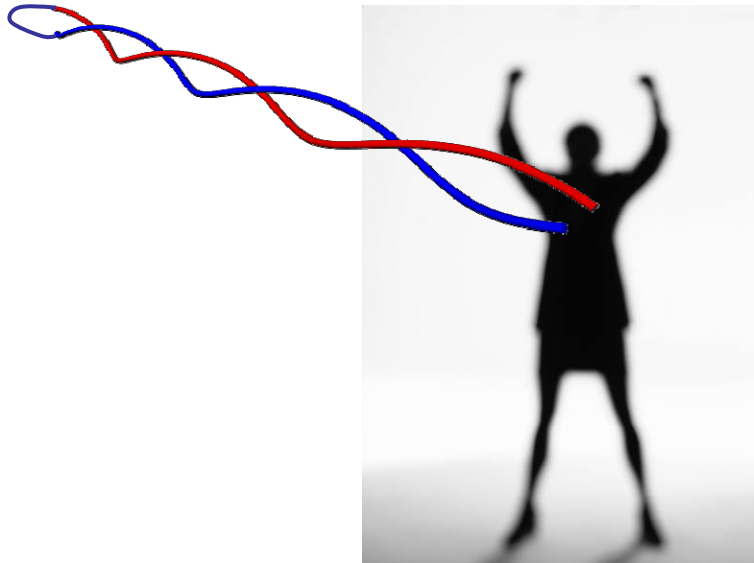
When a human stands, sits or sleeps on top of two crossing longitudinal electric waves it creates a **resonance pattern B**. If these longitudinal electric waves are part of the 24 hours grid it creates interference and cancel the **resonance pattern A** in exactly the same way as described in the previous chapter. There are a number of reports that claim that a person that spends a large part of his time on crossing 24 hours longitudinal electric waves develop different types of problems like bad sleep, infections and other illnesses. Typically the person has his office chair or bed on top of the crossing 24 hours waves. The problem only develops after long term exposure and it takes years before the problems occur. It's seems to be individual, some people are sensitive, others are unaffected. When that person moves his office chair or bed to a new position the problem, in many cases, disappears after a couple of weeks or months. The relationship between long term exposure of 24 hours crossing longitudinal electric waves and physical problems has been described by many doctors, especially in Germany. This paper describes this relationship in scientific terms.

HUMAN IN TWO CROSSING LONGITUDINAL ELECTRIC WAVES



Physical problems like a wound, badly healed bone, infection, overstrained muscle, asthma etc. often creates a disturbance in the **resonance pattern A** of a person. This disturbance can be detected as a longitudinal electric wave that propagates from the wounded area. It propagates a few meters and then turns back towards the wound. It forms a double helix and this double helix induces helix shaped electric and magnetic fields in the same way as described in chapter 3. The period of this longitudinal electric wave is often 9.5 minutes. It is created by resonance and it originates from one of the odd overtones in the grid system. It seems to be a correlation between the seriousness of the wound and the amplitude of the longitudinal electric wave. It's easy to remove this energy i.e. the longitudinal electric wave. If we direct a longitudinal electric wave with the same period but opposite phase (180 degrees phase shifted) towards the wound the two waves will cancel each other. By doing so, we remove the harmful energy. In most cases it takes a week or two for the wounded area to build up new harmful energy.

A WOUND GENERATES A LONGITUDINAL ELECTRIC WAVE



These experiments have not been performed according to scientific practice and the number of experiments is too few to have scientific significance. However, they describe an interesting relationship between many illnesses and the disturbance of the energy field that is created by the longitudinal electric waves. The mechanism behind this is not known. Let's allow to speculate. Trees, plants, humans and animals (a few have been investigated) create resonance in the same way. This mechanism must go far back to early forms of life since it resides in the same way in plants, trees and humans. It must have a significant importance to the biophysics of living organisms since it's maintained in many different forms of life during hundreds of million years. When the resonance pattern is disturbed we see that both trees and humans develop different forms of problems or illnesses. Perhaps the **resonance pattern A**, its energy and its ability to transfer information is an important part of our immune system. When this energy is disturbed our immune system is disturbed. When a wound starts to generate energy with the period 9.5 minutes it disturbs the **resonance pattern A** locally, this degrades the immune system locally and the wound does not heal. When we remove the harmful energy the immune system is improved, the wound start to heal. If we repeat the removal of the harmful energy a couple of times the wound has sufficient time to heal completely. What is described here is not new, it's well known. It has been practiced for thousands of years in China and other countries. It's called healing. What is new in this paper is that healing is explained in scientific terms. It gives us an instrument to understand and to improve healing. We can perform healing with electronic instruments in a well controlled environment.

Reference (1) describes that mobile phones generate longitudinal electric waves with a period of a few Hertz. When we use our mobile the longitudinal electric wave is directed into or close to our brain. When we do that the **resonance pattern A** disappears immediately. Obviously the longitudinal electric wave from the mobile phone has an immediate influence on some brain functions. Perhaps the unsolved problems of mobile phones and health can be explained by this fact.

This paper also describes that this resonance goes back to very early forms of life. Science will realise that the longitudinal electric waves in the 24 & 8 hours grids have played an important part in the evolution of life on Earth. It plays an important part in our daily life.

6. CONCLUSIONS

The cells of the human body create resonance and generate longitudinal electric waves, electric and magnetic fields that surround the body. This energy emanates from the 24 hours grid. It's believed that this energy is an important part of our immune system. When this energy is disturbed it decreases the ability of the immune system. The energy is disturbed in two ways. A wound often generates harmful energy of a different period. The harmful energy can be removed when we inject the same longitudinal electric wave with the opposite phase. When a person is placed on top of two crossing longitudinal electric waves (from the 24 hours grid) his energy is completely changed. If the person has his office chair or his bed on top of two crossing waves he is subjected to this harmful energy many hours a day. Long term (after many years) it can have a negative impact on his health. This paper gives the scientific explanation to healing. This paper gives the scientific explanation to the observation that longitudinal electric waves under certain circumstances have a negative impact on our health. This paper shows that the longitudinal electric waves in the 24 & 8 hours grids have played an important part in the evolution of life. They play an important part in our daily life.

Reference (1); Longitudinal electric waves created by the solar wind and Earth rotation. Hans Giertz.

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Stockholm March 2007

ISBN 978-91-976841-2-5