# EARTH STAR

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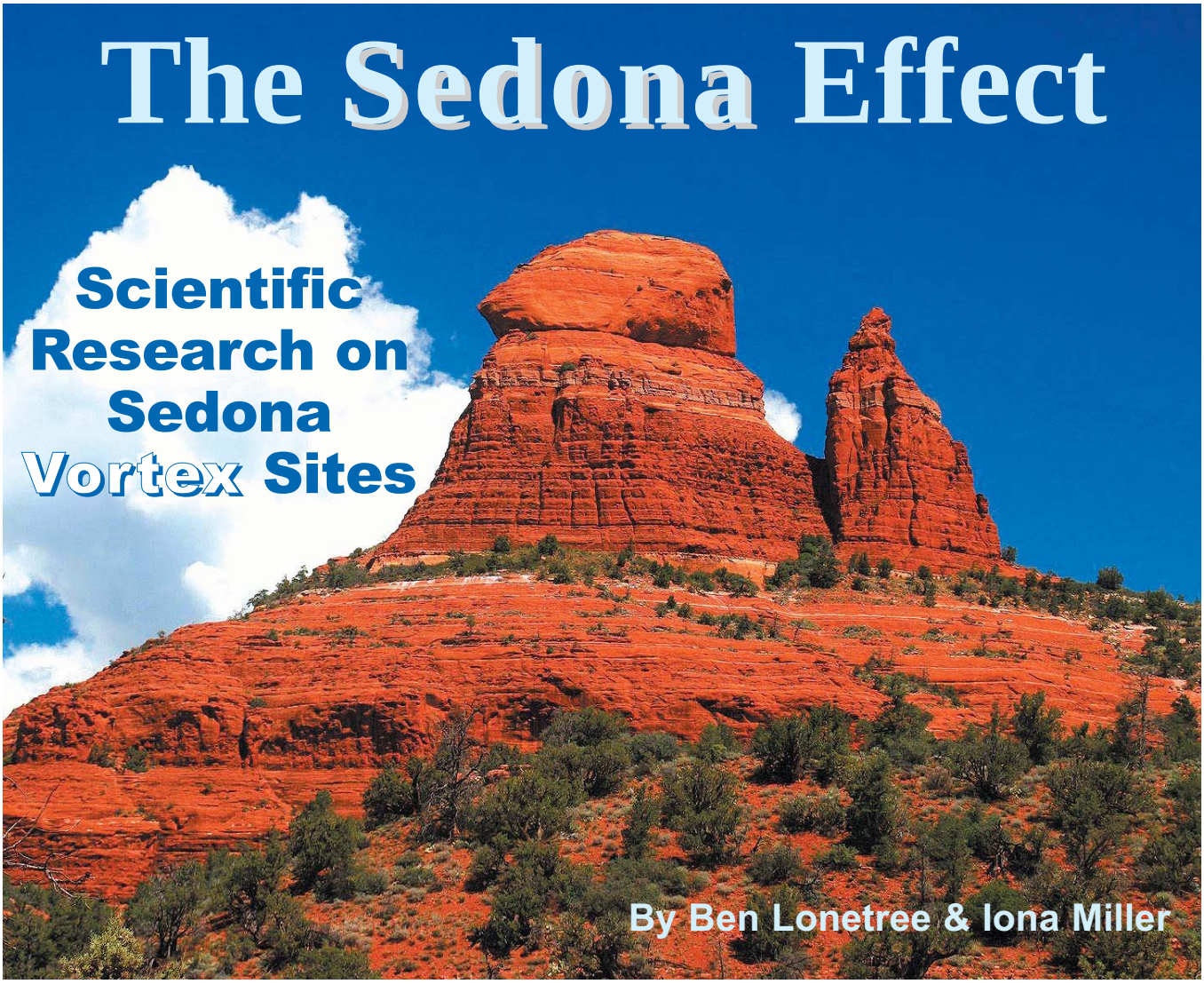
# The Sedona Effect

## Scientific Research on Sedona Vortex Sites



By Ben Lonetree & Iona Miller

Sedona is the virtual center of Arizona and certainly its spiritual heart. Esoteric claims are made about the region, but no one has repeatedly demonstrated the SEDONA EFFECT to a scientific standard, until now. Long hailed by Native Americans as the place where "Mother Earth speaks", and more recently as home of the "mystical vortex", Sedona with its redrock temples proves much more than a place of intense beauty. Many books have been written on the special "Vortex" energy field phenomena found in Sedona. Some say it cannot be measured while others claim it is electromagnetic in origin. Perhaps, both are true, because its ethereal effects *are* more than imaginal.

Electrical engineer Ben Lonetree began as a skeptic of Sedona's metaphysical claims, so he decided to monitor Mother Nature's heartbeat, take her pulse, and listen to what She had to say. After ten years of research using fluxgate magnetometers and large induction coils, Lonetree definitively states that intense electromagnetic activity abounds in Sedona. Proof of Sedona Vortex/Brainwave EEG synchronization can be demonstrated with portable equipment at vortex sites during "sudden magnetic events". Over nearly a decade, Lonetree recorded inward, outward and circular magnetic anomalies in both known and unrecognized Vortex activity locations.

Sedona is rich in Fe2o3, (Iron Oxide), the element responsible for the red rocks, soil, and even the red color of the inner bark of trees. In addition to iron oxide the mineral Magnetite may also exist in large quantities. Concentrations of iron oxide and other metal/minerals have the effect of focusing the earth's natural geomagnetism which is produced by Earth's molten outer core.

Lonetree also observed a correlation or amplification of vortex phenomena with Schumann Resonance (SR). A respected scientist, Lonetree's method for monitoring Schumann Resonance is cited by NASA in the 2003 report, "Investigations of Relatively Easy to Construct Antennas with Efficiency in Receiving Schumann Resonances." Possible applications of these antennas are global weather prediction, earthquake prediction, planetary exploration, communication, wireless transmission of power, or even a "free" energy source.

The Schumann Resonance (SR) provides an orchestrating pulse for life on our planet. Contrary to the New Age meme,

SR is definitely *not* rising in frequency, according to Lonetree's continuous monitoring. We all march to the cadence of this cosmic drummer—our planetary heartbeat, which sets the tempo for health and well-being. There is a harmonic relationship between the earth and our bioelectronic mind/bodies. Earth's low frequency isoelectric field, the magnetic field of the earth, and the electrostatic field that emerges from our bodies are closely interwoven. Our internal rhythms interact with external rhythms, affecting our balance, REM patterns, health, and mental focus.

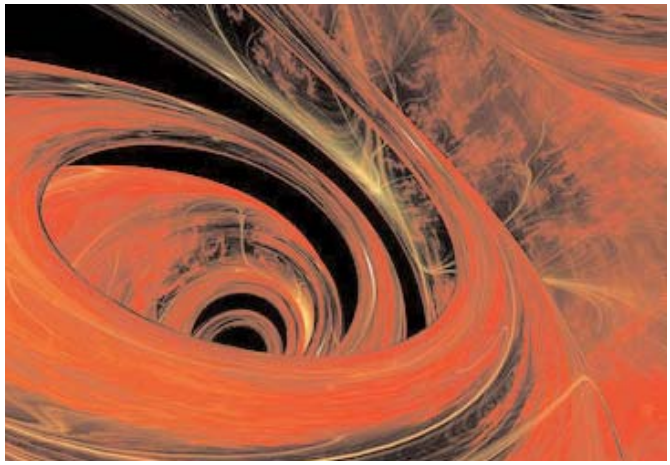
Lonetree added the human element when he began monitoring volunteers with a brainwave interface headset that replaces cumbersome electrodes for EEG. The average of the main Schumann Resonance is 7.8Hz, closely matching the human alpha/theta range (Alpha is 7-8 Hz -12 Hz, with an average value of 10.5 Hz. Theta and beta rhythm signals also occur, and are identifiable by EEG below the 8 Hz and above the 12 Hz frequencies). Adding this third measure of brain wave activity demonstrates resonance and amplification among them. Brainwaves are not monitored for subject-induced meditative states, but for direct correlation in shifts with magnetic flux. The subject remains neutral, relaxed and open but does not try to influence the readings in any way.

Using magnetometers and EEG, he recorded the synchronous signals of geomagnetic anomalies with human brainwaves. Parameters include SR (amplifies effect), brainwave frequency and amplitude, and sudden magnetic events from multiple vortex spots. Evoked potentials include high well-being, healing, nature mystic experiences, ESP or anomalous cognition, and other psychophysical phenomena.

We suggest tiny magnetic crystals, biogenic magnetite, makes the human being highly sensitive to ELF field fluctuations. Now that magnetite has been found in human tissues and brain, research has just begun to evaluate the role of magnetite in health and disease. Magnetic mineral crystal, aligned in chains, is embedded in biological membranes. Magnetite could act as a transducer of both low frequency magnetic fields and RF fields. Magnetite couples strongly to magnetic fields either through ferromagnetic resonance effects or mechanical effects on membrane ion channels.

Paramagnetism is a weak magnetic condition of substances that have a positive but small susceptibility to magnetism. The question remains, "can it carry regenerative instructions?" Biological forms follow the energy patterns laid down by the waveforms of the environment. Electromagnetic vibration can rearrange molecules and macro-molecules into patterned forms (sound, RF, microwave, heat, light, etc.). Are EMF-induced changes in biological sensitivity and sensory transduction a model for biological detection of EM fields?

Each of these compass-like magnetite crystals have been shown to have a mechanical coupling to a mechanoreceptor in the cellular membrane. Thus, they act as a sensor to magnetic fields and signal the inner "machinery" of the cell. Some theorize that these magnetic particles interact with magnetic and electromagnetic fields and transduce their response into their host cell. They are a means of responding to, and sensing our environment.



Trace levels of biogenic magnetite in virtually all human tissues examined suggests that similar biophysical processes may explain a variety of weak field ELF bioeffects. There may be more than a single electromagnetic coupling mechanism. For example, geomagnetic activity fluctuates most rapidly during upsurge of solar activity which alters brain rhythms and hormonal levels, or the downward part of the cycle, when sunspots are rapidly diminishing.

In arguably the first scientific verification of the SEDONA EFFECT, Lonetree demonstrated close correlation between Sedona vortex magnetic anomalies (sudden magnetic events) and spontaneous brainwave changes in frequency and amplitude, that is further modulated by Schumann Resonance and plausibly accounts for reported psychophysical and psychosensory phenomena. Geomagnetic brainwave synchronization occurs spontaneously at vortex points during sudden magnetic events.

STAGE 1 of this SEDONA EFFECT Experiment centered on natural effects, how geomagnetism affects SR in a given local geographical area. Lonetree noticed the anomaly that atmospherics were noticeably stronger (louder) at certain locations along the trail. This was not always the case, though. He began to wonder if the increase in the strength of the atmospherics had anything to do with the infamous vortex energy. The VLF receiver attributed the increase in strength to amplification of the atmospherics. This theory could not be correct though, for if it were, atmospheric strength would be enhanced all the time when he recorded at this particular spot. Such was not the case.

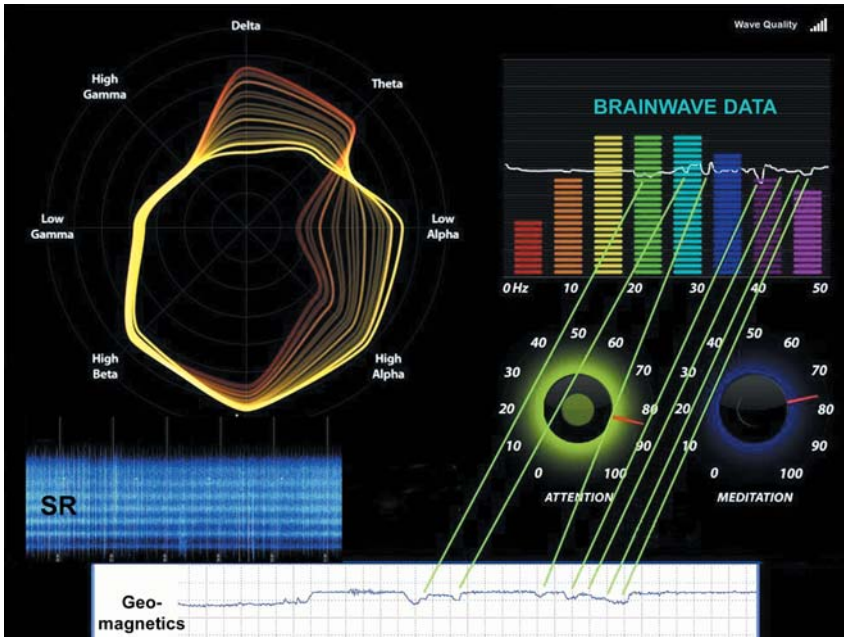
STAGE 2: Surveys conducted by the USGS (United States Geological Survey) indicated there were locations on this planet where there exist vortex-like acting inflows and outflows of non-polarized magnetic energy. Non-polarized means no North or South pole as in a regular magnet. The out- or inflow is simply pure magnetic energy in dynamic motion. Lonetree used a fluxgate sensor to prove his theory. It is used for monitoring the Earth's magnetic field as well as any other source of magnetism.

STAGE 3: The first Schumann Resonance (SR) averages 7.83 Hz. This frequency also falls between Alpha and Theta brainwaves: Beta, Alpha, Theta, Delta. When our brain is functioning restfully in the predominantly alpha/theta zone, we are more relaxed or peaceful. The human brain acts like an

electrical circuit called a phase-locked loop. A local external (outside the body) electromagnetic signal, as long as it is stronger than our brainwaves, initiates a resonance effect where the brain locks onto and resonates at that frequency.

Lonetree conjectured that if the first Schumann Resonance were in some way enhanced in the area where a large geomagnetic outflow occurred, it should be possible for the first Schumann Resonance to affect a person's brainwave activity. Since that first signal again lies in alpha and theta range, simultaneously observing and recording the first resonance along with local field geomagnetic activity using the fluxgate instrument in vortex sites proves this theory. As others have long conjectured, Lonetree was able to demonstrate synchrony, conclusively.

He also recorded what he believed to be influencing magnetic energy. He saw the first Schumann Resonance increase in strength while the geomagnetic outflow of energy increased simultaneously. SR and ELF EM fields do have a provable influence on living organisms. SR changes over correlated circadian rhythms and other cycles of time. Physiological effects have been observed in a human subject in response to stimulation of the skin with weak electromagnetic fields that are pulsed with certain frequencies to excite a sensory resonance. Pulsed electromagnetic fields are capable of exciting sensory resonances in nearby subjects.




In "Schumann Resonances, a plausible biophysical mechanism for the human health effects of Solar/Geomagnetic Activity" König (1974) observed the close similarity of the SR signal with the EEG alpha rhythm, both of which dominate the daytime, and the local sferics 3 Hz signal with the EEG delta rhythm, that dominate the night. He postulated that ELF brain waves evolved to use these natural signals.

STAGE 4: Correlation exists between atmospheric oscillations, brain waves, and biological EM emissions. Understanding its nature may enable us to characterize and amplify various types of "healing energies". Integral portions of biological systems have been shown to be semiconducting, ferromagnetic and piezoelectric. The biosemiconductor, together with the drift of charges, ions, and radicals, may be considered a form of "bioplasma". Bioplasma may be subject to magnetohydrodynamic (MHD) control (Roffey).

The EM fields emitted by trained healers is coherent, resonant biomagnetic emission. The less coherent EM field of the patient is "tuned" to the specific frequency and phase, through which homeostasis can be "aligned" to induce "healing" (Roffey). Vortex energy may exert a so-called "healing" energy in much the same way, via subtle resonance effects.

Persinger and Ryan separately conducted research that shows apparent associations between extrasensory perception (ESP), geomagnetic activity (GMA) and local sidereal time (LST; based on the rotation of the Earth with respect to star positions). Persinger also links certain ESP phenomena to tectonic strain. The analysis of geomagnetic pulsation activity in relation to ESP success was initially conceived as a first step in a process of elimination in the search for an explanation for the reported associations between GMA and LST with ESP. Rather than eliminating the possibility, this factor emerges as a leading candidate for a solution to the problem.

Research suggests that some individuals experiencing extraordinary visionary activity in vortex spots may have a low threshold for kindling sub-clinical "temporal lobe transients," (TLTs), micro-seizures which induce a host of psychosensory phenomena. Neural static and discharge are kindled by electrical instabilities in the brain. Typically, such experiences are assigned special personal meaning. According to neuropsychologist Michael Persinger, "God is a result of electro-magnetic stimulation of the temporal lobes .... the God Experience is synthesized during the temporal lobe transients."

Further studies in magnetoreception may reveal new mechanisms. Questions remain: 1) What is the nature of magnetic sensory cells? 2). By what physical mechanism is the external magnetic field coupled into the organism (reception)? 3). How sensitive is the mechanism to small changes in the magnetic field (detection threshold)? 4). What physical mechanisms or chemical pathways convert the received magnetic energy into a nervous signal (transduction)? But we have defined the SEDONA EFFECT as paramagnetism coupled with Earth Energies, Schumann Resonance & Brainwave Resonance.



More at: http://sedonanomalies.weebly.com
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