## ARE WE DOING MORE DAMAGE TO AN ALREADY FRAGILE ENVIRONMENT -- MORE QUICKLY THAN RESEARCHERS CAN STUDY, LET ALONE POLICY-MAKERS REVERSE?

The effects of non-ionizing electromagnetic fields on our natural environment is not being adequately researched. Some species are "convenient" for laboratory testing and, of course, there are clusters and epidemiological studies in humans. Many species are not studied. Those effects which have been noted have not led to appropriate policy shifts per the "precautionary principle." Individual plants and animals, vulnerable species, ecosystems and hotspots are becoming "collateral damage" as the density of artificial frequencies and fields increases.

Biodiversity is already under threat from a number of interacting factors; EMF is just one more. The deleterious effects of the combination of threats appears to be cumulative and increasing. Whereas life evolved in very specific windows of frequencies of non-ionizing (and ionizing) electromagnetic fields over millennia, this current onslaught of technologically-produced frequencies has radically changed the energy environment in which nature must attempt to survive.

This map offers links to some presentations on some of the known and suspected effects, as well as studies, related maps (with links) and several books. Because of the serious species extinctions occurring at present, we will probably never know what is really happening to our ecosystems and biodiversity. This map does not emphasize effects on humans, which are presented elsewhere.



Insect (above) and plant (right) "antennae", ideally shaped for tuning in to nature -- Callahan

A FEW OF THE REPORTED

**ENVIRONMENTAL EFFECTS** 

**Plants** 

Treetop browning, root damage Pollination decreases

Changes in germination timing

Ion movement changes

Enzyme changes

Animals

Migration and navigation disruption

Habitat abandonment

Behavior and mood changes

Interaction with tissue magnetite

Free radical damage, tissue changes

Genetic function/structure changes

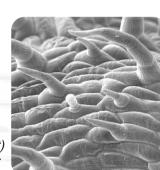
Fertility and development changes

Tower strikes by birds

Combined

Destabilization of biofilms

Cascade of biodiversity loss



## Fall of a Sparrow 🛵

Microwaving Our Planet 🤿 Sparrows and phone masts (A)

Strav voltage harms livestock How cell phones are killing birds 🧖

Continue to Care for the Sparrow

Green Facts: Environment and EMF

Disappearing Bees and EMF timeline

Massive destruction of nature by EMF

Panel to study EMF effect on birds, bees Birds, Bees and the Destruction of Nature

Possible HAARP connection with bee homing

Blake Levitt: Review of environmental effects

Dr. Andrew Goldsworthy discusses cryptochrome

Magnetite 🚮

Nonlinearity 🚮

Cryptochrome 🧖

Toxic Interactions 🚕

Free Radical Activity 🔊

Articles





## **EMF Studies**



**ARTIFICIAL EMF AND THE** 

**ENVIRONMENT: LEARNING FROM B. BLAKE LEVITT, ULRICH WARNKE** PHILIP S. CALLAHAN,

**AND OTHERS** 

www.oscillatorium.com

**Impact** 

Newer Animal health alert 🔝

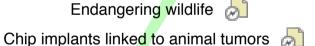
Ocean-power, salmon 🔊

Wave-power, marine life 🧖

Towers disorient homer pigeons [https://doi.org/10.1001/j.j.gov/10.1001/j.j.gov/10.1001/j.j.gov/10.1001/j.j.gov/10.1001/j.j.gov/10.1001/j.j.gov/10.1001/j.j.gov/10.1001/j.j.gov/10.1001/j.j.gov/10.1001/j.j.gov/10.1001/j.j.gov/10.1001/j.j.gov/10.1001/j.j.gov/10.1001/j.go

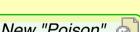
Ground currents, cows and others |

Potential danger of EMF to environment



Tracking Devices





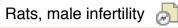
The Dying Forest

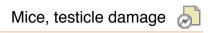
Aspen seedlings and radiowaves [1]

EMF and Nature: h.e.s.e. project

Rabbits, fertility rate 🚕







Rats, behavior changes

Mouse (transgenic), ALS Swine, fertilization outcome

Rats, brain oxidative effects Tree frog tadpoles, mortality 🔝

Rats, autoimmune disorders 🔊

H. pylori, destabilizes biofilm

Bats avoid radar installations

Mice, spatial memory affected 🧥

Worms, fertility, mobile phones 🚕 Rats, stress, psychopathology

Rat, estrogen receptor changes 🔊

Grain beetle, behavior changes 🔝

Cress, calcium ion concentration 🦼

Rats, expression of mRNA altered

Wheat and bean, germination effects 🔝

Sunflower, seedling enzyme changes 🧖

Mouse, macrophage RedOx changes 🧖

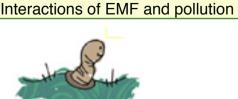
Chicken, embryo membrane disruption

Marine species, bibliography of studies 🦾

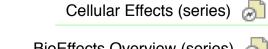
Tree frog tadpoles, mobile phones, city as laboratory

Fresh water flea, deteriorated production characteristics 🔝

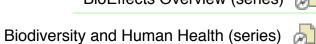


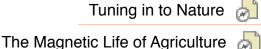




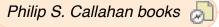








Related maps





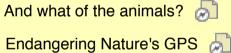


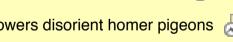


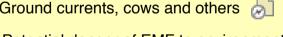
Digital Technology

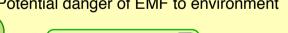


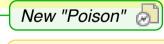




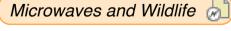


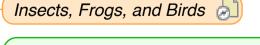


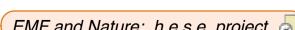






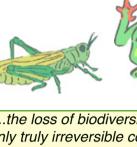












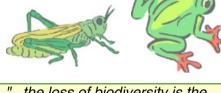


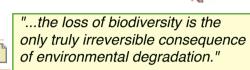












Two migrating, navigating species

