

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.

A FEW 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 magnetic
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
Interactions of EMF and pollution

[EMF/BIRDS ON SEPARATE MAP](#)

[EMF/PLANTS ON SEPARATE MAP](#)

[EMF/BEES ON SEPARATE MAP](#)

[EMF/MARINE LIFE ON SEPARATE MAP](#)

BIRDS, BEES AND THE DESTRUCTION OF NATURE

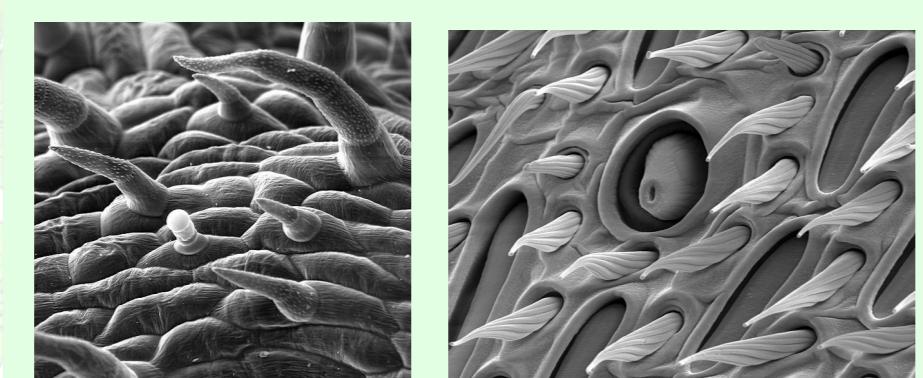
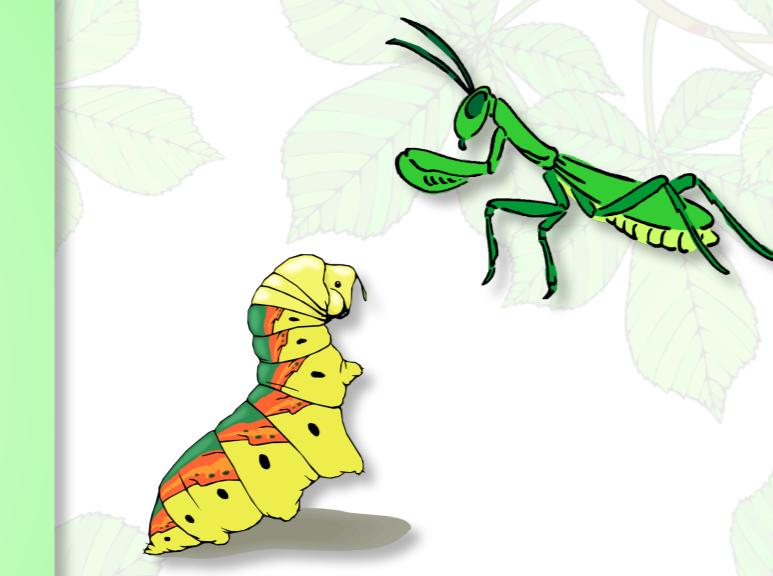
BIRD AND WILDLIFE IMPACTS OF EMF

EMR AND ANIMALS

INDEX OF ALL MAPS RELATED TO EMF AND THE ENVIRONMENT (PDF)

RESONANCE

MAGNETITE, CRYPTOCHROME, MELATONIN, BEES, BIRDS, EMF



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

SEE MAP LIVING ANTENNAS

PHILIP S. CALLAHAN BOOKS

Tuning in to Nature

The Magnetic Life of Agriculture

IMPACT OF COMMUNICATION TOWERS ON WILDLIFE, BIRDS, BEES

NAVY'S EM WEAPONS WILL CAUSE INJURY TO LIVING BEINGS

"...the loss of biodiversity is the only truly irreversible consequence of environmental degradation."

Stuart Pimm et al

GLOBAL WARMING

NTP STUDY

Who Knew?

Calves' cataracts

RF, animal cancer

iPads for Cats?

Pest Busters, EMF

NIEHS study article

Birds, Bees, and Us

Sheep as WiFi routers

Wi-Fi in National Parks?

EMF and cancer in dogs

EMR in our environment

And what of the animals?

SM barn fire kills 12 horses

Endangering Nature's GPS

Can EMF shorten dog's life?

Last wild areas on earth at risk

Stray voltage harms livestock

What price your smartphone?

Physicians for the Environment

Sheep and reindeer as hotspots

Cell towers killing bees, birds, 1

Cell towers killing bees, birds, 2

Stray voltage lawsuit dairy victory

Green Facts: Environment and EMF

Mt. Ranier slated for cell coverage

Melatonin reduced in humans, animals

Antenna Towers make it a dog's Life

Panel to study EMF effect on birds, bees

Sense of smell and sight in ants perturbed

Stray voltage: guide for dairy farmers, vets

Possible HAARP connection with bee homing

Behavior of dairy herd near transmitting antenna

ELECTROPATHIC STRESS IN ANIMALS AND MAN

BEES, BUTTERFLIES, WILDLIFE, EMF

MASSIVE ANIMAL STUDY: CANCER

★ RF-EMF: ANIMALS, BIRDS, INSECTS, TREES

MICROWAVE NEWS: NTP STUDY

ANIMALS SENSE EMF

★ EM SENSITIVITY, PLANT AND ANIMAL

EMF Studies

Articles

ARTIFICIAL EMF AND THE ENVIRONMENT



Home: [Oscillatorium](#)
Newest version [this map](#)
Date of this update: 08-24-17

ELECTROSMOG HURTING WILDLIFE? 149 REFERENCES

EMF, WILDLIFE: 153 STUDIES

Rats, male infertility

Rabbits, fertility rate

Bats averse to radar

Mice, testicle damage

Earthworm, genotoxic

Rats, behavior changes

MW, ciliary function, rats

Mouse (transgenic), ALS

Swine, fertilization outcome

Rats, brain oxidative effects

Rats, autoimmune disorders

H. pylori, destabilizes biofilm

Wildlife, phone mast effects

Mice, memory problems, ELF

Ant colony deterioration, EMF

Mice, spatial memory affected

Rats, stress, psychopathology

Rats, loss of GI interstitial cells

Worms, fertility, mobile phones

EF, adverse effects on fruit flies

Rat, estrogen receptor changes

Grain beetle, behavior changes

RF fields, emerging wildlife threat

Rats, expression of mRNA altered

Ants food memory disruption RF/MW

Monitoring ground current, dairy farm

Mouse, macrophage RedOx changes

★ Planaria, protozoa, response to ME

Chicken, embryo membrane disruption

Collection of published studies on birds

Rats, circadian rhythms, blood changes

Cockroach, disrupted magnetoreception

RF emerging threat to wildlife orientation

EMF, base stations, redox proteins, cows

Ants association with food, sites, inhibited

★ Locusts, EMF, behavior, and physiology

Rats, growth, pubertal development effects

Electric fields, adverse effects, wheat aphids

Power quality and dairy herd milk production

Earthworms, oxidation, DNA damage, MW/RF

5 species, problems due to non-linearity, more

Monarch butterfly migrates via magnetic compass

Rabbits, cellphones, lymphocyte enzyme changes

Radiotelemetry may introduce negative RF effects

Anthropogenic EM noise disrupts migratory compass

Tragedy of Commons, High Tech Risk of Wireless World

