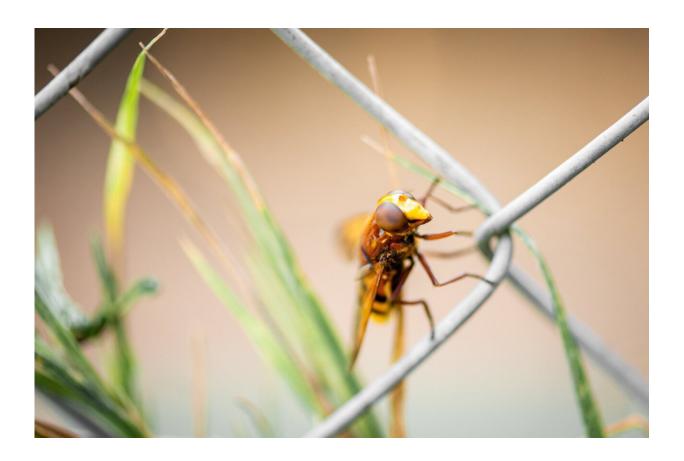


Mobile phone radiation may be killing insects: German study

September 17 2020



Credit: Unsplash/CC0 Public Domain

Radiation from mobile phones could have contributed to the dramatic decline in insect populations seen in much of Europe in recent years, a German study showed Thursday.



On top of pesticides and habitat loss, increased exposure to <u>electromagnetic radiation</u> is "probably having a <u>negative impact</u> on the insect world", according to the study presented in Stuttgart, which is yet to be peer reviewed.

The <u>analysis</u> of 190 scientific studies was carried out by Germany's <u>Nature and Biodiversity Conservation Union</u> (NABU) together with two NGOs, one from Germany and one from Luxembourg.

Of the 83 studies deemed scientifically relevant, 72 showed that radiation had a <u>negative effect</u> on bees, wasps and flies.

These effects ranged from a reduced ability to navigate due to the disturbance of magnetic fields to damage to genetic material and larvae.

Mobile phone and Wi-Fi radiation in particular opens the <u>calcium</u> <u>channels</u> in certain cells, meaning they absorb more calcium ions.

This can trigger a biochemical chain reaction in insects, the study said, disrupting circadian rhythms and the immune system.

"The study shows that we must keep our eyes open in all directions when analysing the causes of the dramatic insect decline," said Johannes Enssle, head of NABU in the state of Baden-Wuerttemberg.

"The subject is uncomfortable for many of us because it interferes with our daily habits and there are powerful economic interests behind mobile communication technology," Enssle said.

Peter Hensinger of the German consumer protection organisation Diagnose Funk said closer attention must be paid to the possible negative effects of radiation on both animals and humans, particularly with regard to the introduction of 5G technology.



Networks equipped with 5G are expected to offer speeds 100 times faster than existing 4G networks, but the technology has been met with strong opposition from some quarters, especially among environmental campaigners.

© 2020 AFP

Citation: Mobile phone radiation may be killing insects: German study (2020, September 17) retrieved 18 April 2024 from https://phys.org/news/2020-09-mobile-insects-german.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.