



WALMER ENERGY

Solar butterfly tracking system





Overview

Can solar-powered radio tags track monarch butterflies from Canada to Mexico?

(KWQC) - Scientists are tracking monarch butterflies on their epic journey from Canada to Mexico for the first time using tiny solar-powered radio tags. The tags weigh just 60 milligrams — about three grains of rice. Researchers have tagged more than 400 monarchs this year and are following their flights on a cell phone app.

Can radio telemetry track monarch butterflies?

Ware, C. Isu student using radio telemetry to track monarch butterflies. Watch, M. Tagging monarchs. Yang, M. et al. Migrating monarch butterfly localization using multi-modal sensor fusion neural networks. In 2020 28 European Signal Processing Conf. (EUSIPCO). (2021), 1792-1796.

How are butterflies tracked?

The butterflies were followed from locations throughout North America and the Caribbean to their overwintering sites in Mexico using revolutionary ultralight transmitters and an innovative network that turns millions of everyday devices into wildlife tracking stations.

Can a smartphone track a butterfly?

Leone Brown, a professor at James Madison University, demonstrates the Project Monarch butterfly tracking app on a phone in Harrisonburg, Va., on Nov. 12, 2025. Scientists used tiny new sensors to follow the insects on journeys that take thousands of miles to their winter colonies in Mexico. butterflies. (Kirsten Luce/The New York Times)



Solar butterfly tracking system

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Monarch Butterfly Fund

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