

Canada conservationist warns of 'cyber poaching'

February 25 2017, by Michel Comte



Conservationist Steve Cooke says a safari company has been tagging animals in order to find them to show guests

Photographers, poachers and eco-tour operators are in the crosshairs of a Canadian conservationist who warns that tracking tags are being hacked and misused to harass and hunt endangered animals.

Steven Cooke, a biology professor at Carleton University in Ottawa, says

that the very tools used by scientists to study and protect animals and fish are being hijacked to do just the opposite.

Cooke, the Canada research chair of environmental science and biology, is the lead author of a paper published this week in the journal *Conservation Biology*.

The research paper cites the example of anglers in the US state of Minnesota who petitioned for access to data on northern pike movements, arguing that it should be publicly available because the research was publicly funded.

Australian authorities have used tags to locate and cull sharks while in India, attempts were made to hack the global positioning system (GPS) collars on endangered Bengal tigers in a case of "cyber poaching."

Cooke said that it is a new phenomenon and there is no data available to quantify this "troubling and unanticipated" problem.

But he provides a broad range of anecdotal evidence in his scholarly article.

Scientists are scheduled to meet in June in Australia to discuss the problem as well as potential fixes.

In the meantime, Cooke is calling for encryption and strict rules to secure data and limit the use of telemetry tools for non-research activities.



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In an interview with AFP, Cooke noted that natural history, ecology, conservation and resource management have all benefited from the use of electronic tagging technology.

But if left unchecked, abuses could not only cause harm to animals, it could significantly hamper research.

"Just think about all the weird ways that people might try to exploit this technology," Cooke said.

The idea for this research came during a family vacation last summer to Banff National Park in Canada. It was then that he learned that the park

authority had imposed a public ban on VHF radio receivers after photographers used telemetry to track tagged animals.

Canadian officials were concerned that the animals may be spooked, stressed or habituated to human interaction, which can alter their behavior and thus influence research findings, or lead to human-wildlife conflicts.

Follow the ping

The tags, Cooke explained, send out pings that can be tracked with a cheap handheld radio receiver.

"So you can stalk these animals in their natural environment, instead of waiting for them to wander over to you," he said.

Following one tagged animal could also lead poachers to others in its group.



US ranchers have been accused of trying to interfere with the reintroduction of wolves in Yellowstone National Park

Convincing scientists to restrict access to their data may prove problematic, Cooke acknowledged.

"It runs counter to the open data movement," he said, describing the widespread use of social media and other outreach to share findings.

In some cases, researchers who receive government grants may be obligated to disseminate the information.

Citing cases of US ranchers accused of trying to interfere with the reintroduction of wolves in Yellowstone National Park, and divers in the Bahamas who removed satellite tags from sharks, Cooke also warned

about so-called "telemetry terrorism."

There is potential for this if people oppose tagging. For example, some Canadian Inuit fear acoustic transmitters will scare away culturally important marine wildlife, and some park visitors have complained that tags distract from the "wilderness experience."

Where commercial interests conflict with conservation goals or where they overlap, there is also a risk.

After the publication of his article Monday, Cooke said he received a call about a safari company that has been tagging animals in order to find them to show guests, rather than waiting patiently near watering holes hoping for wildlife to show up.

Many eco-tour operators offer discounts if no wildlife is seen during a trip.

"There's a pretty strong financial motivation for them to consistently find animals," Cooke commented.

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Citation: Canada conservationist warns of 'cyber poaching' (2017, February 25) retrieved 1 May 2024 from <https://phys.org/news/2017-02-canada-conservationist-cyber-poaching.html>

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