

Hawaii shark study aims to understand why they bite

May 20 2016, by By Audrey Mcavoy



In this July 2007 image provided by the University of Hawaii's Institute of Marine Biology, a team of researchers from the university tags a large tiger shark near Lisianski Island in the Northwestern Hawaiian Islands. The researchers released a 2-year study Thursday, May 19, 2016 looking at tiger shark activity around Maui after a number of shark bites in 2012 and 2013 prompted the state to commission further research. This shark, while not part of this specific study, is an example of some of the sharks the team has handled during their research. (Luis Roch, University of Hawaii's Institute of Marine Biology via AP)

New research released Thursday shows tiger sharks naturally favor waters near Maui that are close to some of Hawaii's most popular beaches for humans.

This can reasonably explain why there are a higher number of [shark bites](#) in waters surrounding Maui than other Hawaii islands, said Carl Meyer, assistant researcher at the Hawaii Institute of Marine Biology and the principal investigator on the report.

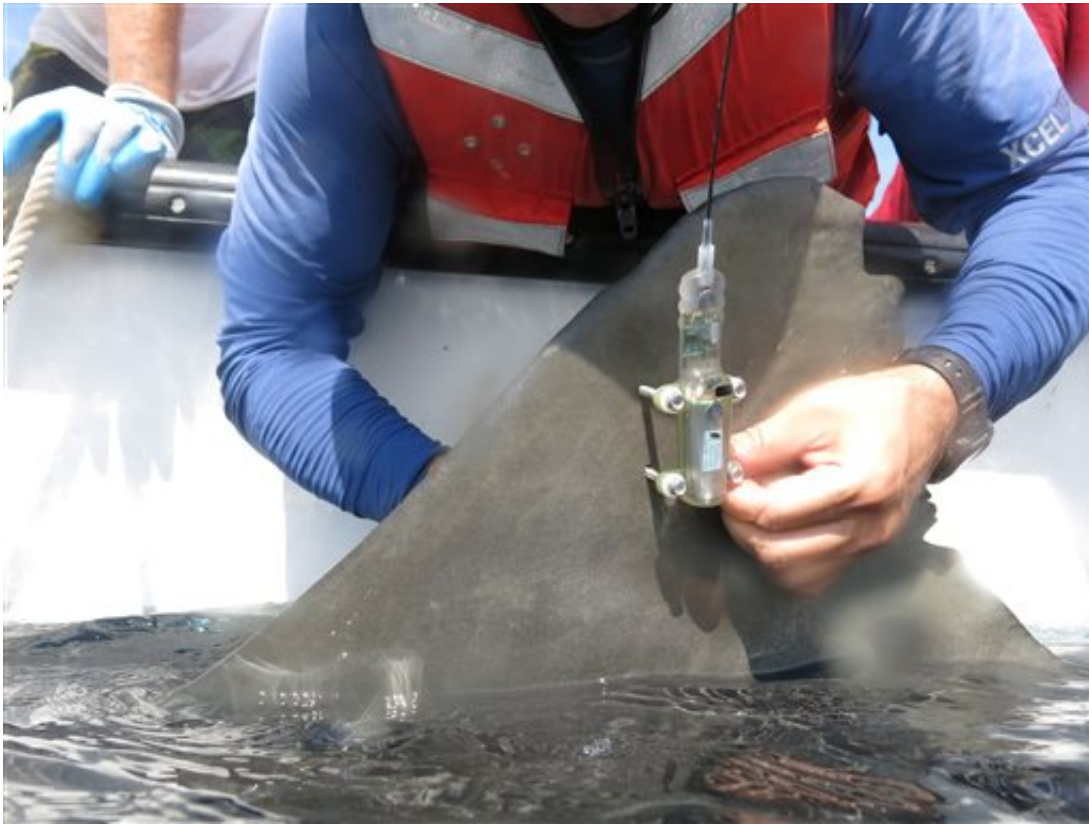
Yet Meyer stressed it's rare for sharks to bite people. He said [shark attacks](#) have increased over time but that is because the [human population](#) has grown and more people are in the [ocean](#).

The state of Hawaii's Department of Land and Natural Resources commissioned the two-year study after a spike in shark attacks off Maui in 2012 and 2013 raised community concerns. The researchers tagged [tiger sharks](#) off Maui and Oahu and tracked them as they swam around the island chain and open ocean.

Meyer plans to submit the research to a peer-review journal.

State officials said the study shows people need to be careful when entering the ocean.

"Swimming in the ocean is swimming in what amounts to a wilderness environment. Sharks are part of this environment," said Bruce Anderson, administrator of the state Division of Aquatic Resources. "We have to accept that they're there and take precautions to avoid encounters, which are going to occur from time to time."



In this October, 2013 photo provided by the University of Hawaii's Institute of Marine Biology, Carl Meyer tags a tiger shark off Kihei, Maui in Hawaii. Meyer was the principle investigator for a 2-year study released Thursday, May 19, 2016 that looked at tiger shark activity around Maui after a number of shark bites in 2012 and 2013 prompted the state to commission further research.(Mark Royer, University of Hawaii's Institute of Marine Biology via AP)

Anderson said the state would increase its educational outreach in response to the study. He urged people to stay out of the ocean if the water is murky. He recommended avoiding areas near streams where dead animals may wash out, attracting sharks. He suggested swimming in groups, as a buddy can help if a shark does bite.

Anderson said shark behavior hasn't changed, but people's behavior has, as more people are kayaking, swimming, spearfishing and taking up

ocean sports such as stand-up paddleboarding.

The research showed the sharks favor waters between Maui, Lanai, Molokai and Kahoolawe islands. The area is rich with coral reefs that offer habitat for fish and other marine life that sharks like to eat.

Together, Maui and nearby islands have more preferred shark habitat than all the other main Hawaiian Islands combined, Meyer said.



In this Thursday, Jan. 21, 2016 photo, Carl Meyer, a shark researcher at the

University of Hawaii's Institute of Marine Biology, shows a tracking device used to monitor tiger shark around Hawaii at his lab on Oahu's Coconut Island. Meyer was the principle investigator for a 2-year study released Thursday, May 19, 2016 that looked at tiger shark activity around Maui after a number of shark bites in 2012 and 2013 prompted the state to commission further research. (AP Photo/Caleb Jones)

Maui sharks tend to stay in these waters. But the area also draws [sharks](#) that normally live in Oahu waters, particularly during mating season.

There were six shark attacks around Maui in 2012 and eight in 2013. The numbers dropped to five in 2014 and one in 2015.

Meyer said shark attacks would likely continue to increase gradually over time as the human population grows.

"The ingredients that have gone into a general upward trend in the number of shark bites in Hawaii, and other places around the world, are mainly more people in coastal areas going into the ocean and doing a wider array of ocean recreational activities," Meyer said.



In this Thursday, Jan. 21, 2016 photo, Carl Meyer, a shark researcher at the University of Hawaii's Institute of Marine Biology, shows a tag used to monitor tiger shark around Hawaii at his lab on Oahu's Coconut Island. Meyer was the principle investigator for a 2-year study released Thursday, May 19, 2016 that looked at tiger shark activity around Maui after a number of shark bites in 2012 and 2013 prompted the state to commission further research. (AP Photo/Caleb Jones)



In this Thursday, Jan. 21, 2016 photo, sand and hammerhead sharks swim in a holding tank at the University of Hawaii's Institute of Marine Biology on Oahu's Coconut Island. A 2-year study was released by researchers at the lab on Thursday, May 19, 2016 that looked at tiger shark activity around Maui after a number of shark bites in 2012 and 2013 prompted the state to commission further research. (AP Photo/Caleb Jones)

© 2016 The Associated Press. All rights reserved.

Citation: Hawaii shark study aims to understand why they bite (2016, May 20) retrieved 2 May 2024 from <https://phys.org/news/2016-05-hawaii-shark-aims.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.