

# Scientists track great hammerhead shark migration

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A new study by scientists in University of Miami's R.J. Dunlap Marine Conservation Program provides new insight into the largely unknown migratory patterns and habitat use of this endangered species of shark using satellite data. Credit: Neil Hammerschlag

A study led by scientists at the University of Miami (UM) Rosenstiel School of Marine & Atmospheric Science details the first scientific research to successfully track a great hammerhead shark using satellite tag technology.

Rosenstiel Schhol Research Assistant Professor Neil Hammershlag and colleagues tracked one of the nomadic sharks for 62 days to uncover its northeast journey from the coast of South Florida to the middle of the Atlantic off the coast of New Jersey. The straight line point-to-point distance of 1,200 kilometers (745 miles) represents a range extension for

this species. The data also revealed the shark entering the Gulf Stream current and open-ocean waters of the northwestern Atlantic Ocean.

"This animal made an extraordinary large movement in a short amount of time," said Hammerschlag, director of the R.J. Dunlap Marine Conservation Program at the UM Rosenstiel School. "This single observation is a starting point, it shows we need to expand our efforts to learn more about them."

The animal was likely following food, such as mahi-mahi and jacks, off the continental slope and into the Gulf Stream, according to the authors.

This preliminary study is part of a larger effort by Hammerschlag to satellite track tropical sharks to identify hotspots -- areas that are important for feeding, mating, and pupping -- and to document their largely unknown migration routes. In the last year, the R.J. Dunlap team has tagged the fins more than 50 large and environmentally threatened sharks in Florida and Bahamas, among them great hammerhead, bull and tiger sharks.



A new study in *Endangered Species Research* provides new insight into the largely unknown migratory patterns and habitat use of the Great Hammerhead Shark. Credit: Neil Hammerschlag

The great hammerhead shark is listed as endangered in the northwest Atlantic and Gulf of Mexico by the International Union for Conservation of Nature (ICUN) due to a suspected population decline of nearly 50 percent over the last 10 years. The shark is found in tropical waters worldwide and is under threat of extinction due to overfishing for its large fins, which are prized for shark fin soup, and from accidental bycatch from commercial fishing operations.

"This study provides evidence that great hammerheads can migrate into international waters, where these sharks are vulnerable to illegal fishing," said Hammerschlag. "By knowing the areas where they are vulnerable to exploitation we can help generate information useful for conservation and management of this species."

DNA analysis of great hammerhead fins sold in the Asian shark fin market has shown that a large majority of the [sharks](#) came from Atlantic waters.

**More information:** The paper, titled "Range extension of the Endangered great hammerhead shark *Sphyrna mokarran* in the Northwest Atlantic: preliminary data and significance for conservation" was published in the current issue of the journal *Endangered Species Research*.

Provided by University of Miami

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