

Sharks killed at alarming rates despite regulations: study

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Sharks have prowled Earth's waters for over 400 million years, but a growing appetite for their fins has driven several shark species to the brink of extinction.

Global shark populations are plummeting despite worldwide efforts to curb mass killings for their fins, researchers said in a new report showing



that more needs to be done to protect one of the ocean's apex species.

Between 2012 and 2019, the number of sharks killed from fishing increased from some 76 million a year to more than 80 million, they reported in the journal *Science*.

At least 25 million were threatened species.

Sharks have prowled Earth's waters for 400 million years, but a growing appetite for their fins—a valuable commodity in Asian markets—has driven several species to the brink of extinction.

Today, 70 percent of countries and jurisdictions have implemented protective regulations to eliminate <u>shark finning</u>, where the top predators are tossed back into the ocean and left to die once <u>fins</u> are removed.

But some of these rules—which first emerged in the 1990s—have had unintended consequences that are costing even more sharks their lives, new data revealed.

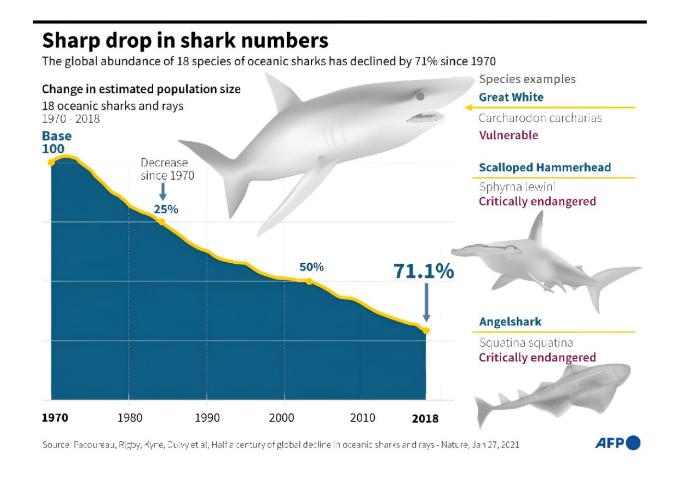
Finning has marginally declined over the past two decades, but policies requiring fishers to land whole sharks inadvertently incentivized a market for shark meat.

"Anti-finning measures were not the silver bullet we hoped for," study author Laurenne Schiller told AFP.

Researchers spent three years collecting data on fishery regulations and shark mortality.

They were surprised to learn "how widespread the trade with shark meat, oil and cartilage is, and how sharks are showing up in a lot of products without consumers being aware," said lead author Boris Worm.





As apex predators, sharks are crucial for keeping marine ecosystems healthy.

Blood in the water

Fisheries are now catching smaller sharks, including juveniles, more often, because of the decline in the fin trade and regional declines in the abundance of large sharks.

In hotspots where shark mortality is greatest, researchers found a higher use of gillnets—walls of netting that hang in the water—and trawls, which is heavy netting dragged along the <u>ocean floor</u>.



Despite being highly evolved ocean predators, sharks are incredibly vulnerable, Schiller said.

"Sharks have spent over 99% of their time on Earth in an <u>ocean</u> without humans, so in many ways, they were not prepared for us and the impacts of fishing."

As a keystone species, sharks are crucial for keeping oceans healthy.

"When we lose these species, it can throw off the balance of the marine ecosystem", she said.

Today, one in three shark species around the world is threatened with extinction.

On a more positive note, Worm emphasized that many nations and territories have already implemented shark fishing prohibitions and sanctuaries to safeguard one of the world's oldest species.

Implementing shark sanctuaries and no-take protected areas seem to keep shark mortality levels low, according to the study.

Still, the current risks for coastal <u>sharks</u> appear to be escalating globally, a conclusion supported by the International Union for the Conservation of Nature (IUCN).

"We need to take a more targeted approach to reducing shark mortality," Schiller said.

More information: Boris Worm et al, Global shark fishing mortality still rising despite widespread regulatory change, *Science* (2024). DOI: 10.1126/science.adf8984.

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