

## Madagascar marine resources plundered by international seafood markets

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Fish catches in Madagascar over the last half-century are double the official reports, and much of that fish is being caught by unregulated traditional fishers or accessed cheaply by foreign fishing vessels. Seafood exports from Madagascar often end up in a European

recipe, but are a recipe for political unrest at home, where two-thirds of the population face hunger.

These are the findings of a recent study led by researchers from the University of British Columbia's Sea Around Us Project in collaboration with the Madagascar-based conservation organisation Blue Ventures. The research, published online this week in the journal *Marine Policy*, used existing studies and local knowledge to estimate total fisheries catches between 1950 and 2008.

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Foreign fishing fleets from Europe and Asia are placing huge pressure on Madagascar's fisheries by catching nearly 80,000 tonnes of seafood each year -- almost the same amount as local fishermen -- and are exacerbating the impact of overfishing at local levels. Consequently, catches of several key species groups seem to be in decline, including mostly exported shrimp, shark and sea cucumber.

The findings underline the importance of protecting local fisheries for food security through stronger fisheries management. Madagascar is the world's fourth largest island and is home to some of the world's poorest people. Two-thirds of the country's population is food insecure. Yet, the country has three monitoring vessels and nine speedboats to protect its waters from illegal fishing boats and monitor domestic fisheries.

"Both increasing pressure by local fishing communities and demand from the international market could accelerate the downward trends we see in Madagascar's fisheries," says Frédéric Le Manach, lead author of the study and a graduate student at the University of Plymouth in the UK and visiting researcher at UBC.

The local shrimp fishery, of prime importance for the national economy, has caught about 12,000 tonnes annually, but is now declining. Most of these shrimp are destined for export to developed countries.

"Securing Madagascar's fisheries for local consumption is of paramount importance to Madagascar's sustainable economic development," says Alasdair Harris, a marine scientist working in Madagascar. The authors suggest that the new data should be considered before allowing foreign fishing vessels further access to Madagascar's waters.

"This study is yet another demonstration of how overfishing impacts humans in different parts of the world," explains supervising author Dirk Zeller and senior research fellow with The Sea Around Us Project at UBC. "In the case of Madagascar, overfishing does not

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