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“No fish left behind” approach leaves Earth with nowhere left to fish: UBC researchers

The Earth has run out of room to expand fisheries, according to a new study led by University of British Columbia researchers that charts the systemic expansion of industrialized fisheries.

In collaboration with the National Geographic Society and published today in the online journal *PLoS ONE*, the study is the first to measure the spatial expansion of global fisheries. It reveals that fisheries expanded at a rate of one million sq. kilometres per year from the 1950s to the end of the 1970s. The rate of expansion more than tripled in the 1980s and early 1990s – to roughly the size of Brazil’s Amazon rain forest every year.

NB: View the study at <http://dx.plos.org/10.1371/journal.pone.0015143>.

Between 1950 and 2005, the spatial expansion of fisheries started from the coastal waters off the North Atlantic and Northwest Pacific, reached into the high seas and southward into the Southern Hemisphere at a rate of almost one degree latitude per year. It was accompanied by a nearly five-fold increase in catch, from 19 million tonnes in 1950, to a peak of 90 million tonnes in the late 1980s, and dropping to 87 million tonnes in 2005, according to the study.

“The decline of spatial expansion since the mid-1990s is not a reflection of successful conservation efforts but rather an indication that we’ve simply run out of room to expand fisheries,” says Wilf Swartz, a PhD student at UBC Fisheries Centre and lead author of the study.

Meanwhile, less than 0.1 per cent of the world’s oceans are designated as marine reserves that are closed to fishing.

“If people in Japan, Europe, and North America find themselves wondering how the markets are still filled with seafood, it’s in part because spatial expansion and trade makes up for overfishing and ‘fishing down the food chain’ in local waters,” says Swartz.

“While many people still view fisheries as a romantic, localized activity pursued by rugged individuals, the reality is that for decades now, numerous fisheries are corporate operations that take a mostly no-fish-left-behind approach to our oceans until there’s nowhere left to go,” says Daniel Pauly, co-author and principal investigator of the Sea Around Us Project at UBC Fisheries Centre.

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The researchers used a newly created measurement for the ecological footprint of fisheries that allows them to determine the combined impact of all marine fisheries and their rate of expansion. Known as SeafoodPrint, it quantifies the amount of “primary production” – the microscopic organisms and plants at the bottom of the marine food chain – required to produce any given amount of fish.

“This method allows us to truly gauge the impact of catching all types of fish, from large predators such as bluefin tuna to small fish such as sardines and anchovies,” says Pauly. “Because not all fish are created equal and neither is their impact on the sustainability of our ocean.”

“The era of great expansion has come to an end, and maintaining the current supply of wild fish sustainably is not possible,” says co-author and National Geographic Ocean Fellow Enric Sala. “The sooner we come to grips with it – similar to how society has recognized the effects of climate change – the sooner we can stop the downward spiral by creating stricter fisheries regulations and more marine reserves.”

The University of British Columbia Fisheries Centre, in the College for Interdisciplinary Studies, undertakes research to restore fisheries, conserve aquatic life and rebuild ecosystems. It promotes multidisciplinary study of aquatic ecosystems and broad-based collaboration with maritime communities, government, NGOs and other partners. The UBC Fisheries Centre is recognized globally for its innovative and enterprising research, with its academics winning many accolades and awards. The Sea Around Us Project is funded in part by the Pew Environment Group. For more information, visit www.fisheries.ubc.ca and www.cfis.ubc.ca.

The National Geographic Society, the Waitt Foundation, the SEAlliance along with strategic government, private, academic and conservation partners including the TEDPrize, Google and IUCN, are beginning an action-oriented marine conservation initiative under the banner of “Mission Blue” that will increase global awareness of the urgent ocean crisis and help to reverse the decline in ocean health by inspiring people to care and act; reducing the impact of fishing; and promoting the creation of marine protected areas. For more information, go to www.iamtheocean.org.