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Ten million tonnes of fish wasted every year despite declining fish stocks

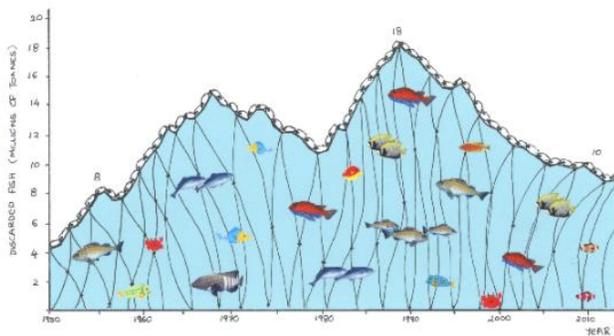
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Media Release | June 26, 2017

Fish dumped back into the ocean



Contact

Valentina Ruiz Leotaud
Sea Around Us
Tel: 604.827.3164
Email: v.ruizleotaud@oceans.ubc.ca

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Industrial fishing fleets dump nearly 10 million tonnes of good fish back into the ocean every year, according to new research.

The study by researchers with *Sea Around Us*, an initiative at the University of British Columbia's Institute for the Oceans and Fisheries and the University of Western Australia, reveals that almost 10 per cent of the world's total catch in the last decade was discarded due to poor fishing practices and inadequate management. This is equivalent to throwing back enough fish to fill about 4,500 Olympic sized swimming pools every year.

"In the current era of increasing food insecurity and human nutritional health concerns, these findings are important," said Dirk Zeller, lead author for the study who is now a professor at the University of Western Australia and senior research partner with the *Sea Around Us*. "The discarded fish could have been put to better use."

Fishers discard a portion of their catch because fishing practices damage the fish and make them unmarketable, the fish are too small, the species is out of season, only part of the fish needs to be harvested—as with the Alaska pollock roe—or the fishers caught species that they were not targeting, something known as bycatch.

"Discards also happen because of a nasty practice known as high-grading where fishers continue fishing even after they've caught fish that they can sell," said Zeller. "If they catch bigger fish, they throw away the smaller ones; they usually can't keep both loads because they run out of freezer space or go over their quota."

The study examined the amount of discarded fish over time. In the 1950s, about five million tonnes of fish were discarded every year, in the 1980s that figure grew to 18 million tonnes. It decreased to the current levels of nearly 10 million tonnes per year over the past decade.

The decline in discards in recent years could be attributed to improved fisheries management and new technology, but Zeller and his colleagues say it's likely also an indicator of depleted fish stocks. A [2016 reconstruction of catch data from 1950 to 2010](#) by researchers with the *Sea Around Us* revealed that catches have been declining at a rate of 1.2 million tonnes of fish every year since the mid-1990s.

"Discards are now declining because we have already fished these species down so much that fishing operations are catching less and less each year, and therefore there's less for them to throw away," he said.

Zeller and his colleagues Tim Cashion, Maria Palomares and Daniel Pauly, say that the study also shows how industrial fleets move to new waters once certain fisheries decline.

"The shift of discards from Atlantic to Pacific waters shows a dangerous trend in fisheries of exporting our fishing needs and fishing problems to new areas," Cashion said.

The paper "Global marine fisheries discards: a synthesis of reconstructed data" was published today in [Fish & Fisheries](#).

Find other stories about: [Sea Around Us](#)

Link: <https://news.ubc.ca/2017/06/26/ten-million-tonnes-of-fish-wasted-every-year-despite-declining-fish-stocks/>



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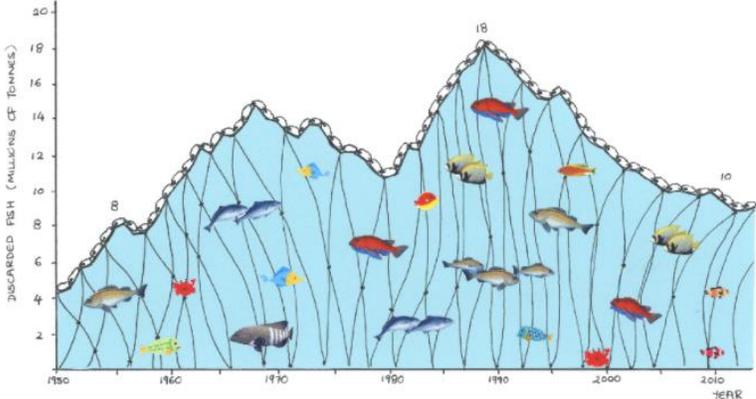
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Ten million tonnes of fish wasted every year despite declining fish stocks

Fish dumped back into the ocean



Year	Discarded Fish (Millions of Tonnes)
1950	4
1960	8
1970	14
1980	11
1990	18
2000	11
2010	10

Media Contact

Katherine Came
Communications Manager
Institute for the Oceans and Fisheries
Email: k.came_at_oceans.ubc.ca
Office: 604-827-4325

Heather Amos
Senior Media Relations Specialist
UBC Public Affairs
Email: heather.amos_at_ubc.ca
Office: 604-822-3213

Industrial fishing fleets dump more than 9.7 million tonnes of good fish back into the ocean every year, according to new research.

The study by researchers with *Sea Around Us*, an initiative at the University of British Columbia's Institute for the Oceans and Fisheries and the University of Western Australia, reveals that almost 10 per cent of the world's total catch in the last decade was discarded due to poor fishing practices and inadequate management. This is equivalent to throwing back enough fish to fill about 4,500 Olympic sized swimming pools every year.



Dirk Zeller

“In the current era of increasing food insecurity and human nutritional health concerns, these findings are important,” said Dirk Zeller, lead author for the study who is now a professor at the University of Western Australia and senior research partner with the *Sea Around Us*. “The discarded fish could have been put to better use.”

Fishers discard a portion of their catch because fishing practices damage the fish and make them unmarketable, the fish are too small, the species is out of season, only part of the fish needs to be harvested—as with the Alaska pollock roe—or the fishers caught species that they were not targeting, something known as bycatch.

“Discards also happen because of a nasty practice known as high-grading where fishers continue fishing even after they’ve caught fish that they can sell,” said Zeller. “If they catch bigger fish, they throw away the smaller ones; they usually can’t keep both loads because they run out of freezer space or go over their quota.”

The study examined the amount of discarded fish over time. In the 1950s, about five million tonnes of fish were discarded every year, in the 1980s that figure grew to 18 million tonnes. It decreased to the current levels of nearly 10 million tonnes per year over the past decade.

The decline in discards in recent years could be attributed to improved fisheries management and new technology, but Zeller and his colleagues say it’s likely also an indicator of depleted fish stocks. As the *Sea Around Us*’ 2016 [global catch reconstruction paper revealed](#), catches have been declining at a rate of 1.2 million tonnes of fish every year since the mid-1990s.

“Discards are now declining because we have already fished these species down so much that fishing operations are catching less and less each year, and therefore there’s less for them to throw away,” he said.

Zeller and his colleagues Tim Cashion, Maria Palomares and Daniel Pauly, say that the study also shows how industrial fleets move to new waters once certain fisheries decline.

“The shift of discards from Atlantic to Pacific waters shows a dangerous trend in fisheries of exporting our fishing needs and fishing problems to new areas,” Cashion said.

The paper “Global marine fisheries discards: a synthesis of reconstructed data” was published today in *Fish & Fisheries*.

Link: <http://oceans.ubc.ca/2017/06/26/ten-million-tonnes-of-fish-wasted-every-year-despite-declining-fish-stocks/>

The image is a screenshot of the UBC Science website. At the top, the UBC logo and the text "THE UNIVERSITY OF BRITISH COLUMBIA" are visible. Below this is a navigation bar with "UBC Science" and several menu items: "PROSPECTIVE STUDENTS", "CURRENT UNDERGRADS", "GRAD STUDENTS", "FACULTY & STAFF", "INDUSTRY", "ALUMNI & COMMUNITY", "DONORS", and "ABOUT US". The main content area features a large background image of fish. A prominent blue box contains the headline: "Ten million tonnes of fish wasted every year despite declining fish stocks". Below the headline are four news snippets, each with a small image and text: "NEWS: Researchers untangle mystery of tiny bird's trans-Pacific flight", "NEWS: UBC computer scientist named VP research and innovation", "JUNE 28: An emergency preparedness exercise will take place at UBC Vancouver", and "NEWS: Natalia Noldo discusses risky side of statistics". At the bottom of the page, there are four blue buttons: "UNDERGRAD PROGRAMS", "GRADUATE PROGRAMS", "DEPARTMENTS", and "RESEARCH AT UBC SCIENCE".

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The paper “Global marine fisheries discards: a synthesis of reconstructed data” was published today in *Fish & Fisheries*: DOI:10.1111/faf.12233.

Link: <https://science.ubc.ca/news/ten-million-tonnes-fish-wasted-every-year-despite-declining-fish-stocks>