

First-ever estimate of commercial fishing gear lost in the world's oceans

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Abandoned, lost or otherwise discarded fishing gear or 'ghost gear'

contributes substantially to global marine pollution responsible for wide-reaching environmental and socioeconomic impacts.

Until now there has not been a clear global picture of the quantity and type of [fishing gear](#) lost worldwide.

Using data from 68 studies published between 1975 and 2017, researchers have produced the first global estimate of commercial fishing gear losses in our oceans.

"The study estimates that 6 percent of all [fishing nets](#), 9 percent of all traps, and 29 percent of all lines are lost or discarded into our oceans each year," explains Kelsey Richardson, a Ph.D. student from CSIRO's Marine Debris Team, who led the study.

"The type of fishing gear used, along with how and where it is used, can all influence gear loss by fishers.

"We found that [bad weather](#), gear becoming ensnared on the seafloor, and gear interfering with other gear types are the most common reasons for commercial fishing gear being lost."

When fishing gear becomes marine pollution, it has significant consequences for marine life and habitats and can be a navigation hazard.

Fishing gear can take hundreds of years to breakdown.

The study, published in *Fish and Fisheries* , also found that reporting of commercial fishing gear lost at sea has increased through time.

This is most likely due to improved reporting procedures and increases in the number of studies on gear loss across geographic areas and

fisheries.

There have been very few studies on gear losses in Australian waters, of which one could be included in this study. Findings from this global study can be applied in the Australian context to support research priorities, risks assessments and monitoring.

"These new global estimates on fishing gear losses fill a critical knowledge gap. By understanding where and why gear is lost, we can help target interventions to reduce fishing gear ending up in our oceans," says Dr. Denise Hardesty, Principal Research Scientist with CSIRO's Oceans and Atmosphere.

"When fishers lose gear at sea, they are not only adding to plastic pollution, but affecting their livelihoods.

"An estimated 40.3 million people are employed in fisheries globally and the costs of replacing gear can add up quickly."

"Reducing the amount that ends up in the oceans is good for industry, good for the environment, and good for global food security."

Currently, much of the data on gear loss is from the United States and Europe, highlighting the need for more information about gear losses in the African, Asian, South American and Oceania regions.

More information: Kelsey Richardson et al. Estimates of fishing gear loss rates at a global scale: A literature review and meta-analysis, *Fish and Fisheries* (2019). [DOI: 10.1111/faf.12407](https://doi.org/10.1111/faf.12407)

Provided by CSIRO

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