

Targeting ALDFG in the Caribbean

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ALDFG Activities: GGGI Collaboration

- Fisheries and Oceans Canada Grant: Sustainable Fisheries Solutions and Retrieval Support **Contribution Program**
- Regional ALDFG Action Plan developed in 2021
- Baseline & modeling of hotspot locations
- Gear testing: Blue Ocean Gear and Resqunit gear
- Unoccupied Aerial Vehicle Surveys and AI Algorithms used to develop a neural network to detect ghost gear in images captured by UAVs
- Development of communication products targeted at policy makers and fishers
- Implementation of a fisher led ALDFG awareness program
- Virtual workshop on Solutions for End of Life Fishing Gear (held in March 2023)



Hotspot Mapping

- Partnership with Global Ghost Gear Initiative (GGGI)
- Performing lost gear hotspot mapping and groundtruthing of gear accumulation areas
- Gathering data on the causes and rates of gear loss in Caribbean fisheries in Belize, Grenada, Jamaica, Mexico, Montserrat and Trinidad and Tobago via fisher surveys
- Creating predictive models on likely locations for ALDFG based on these surveys as well as fisheries effort and other atmospheric or oceanographic data







Gear Testing

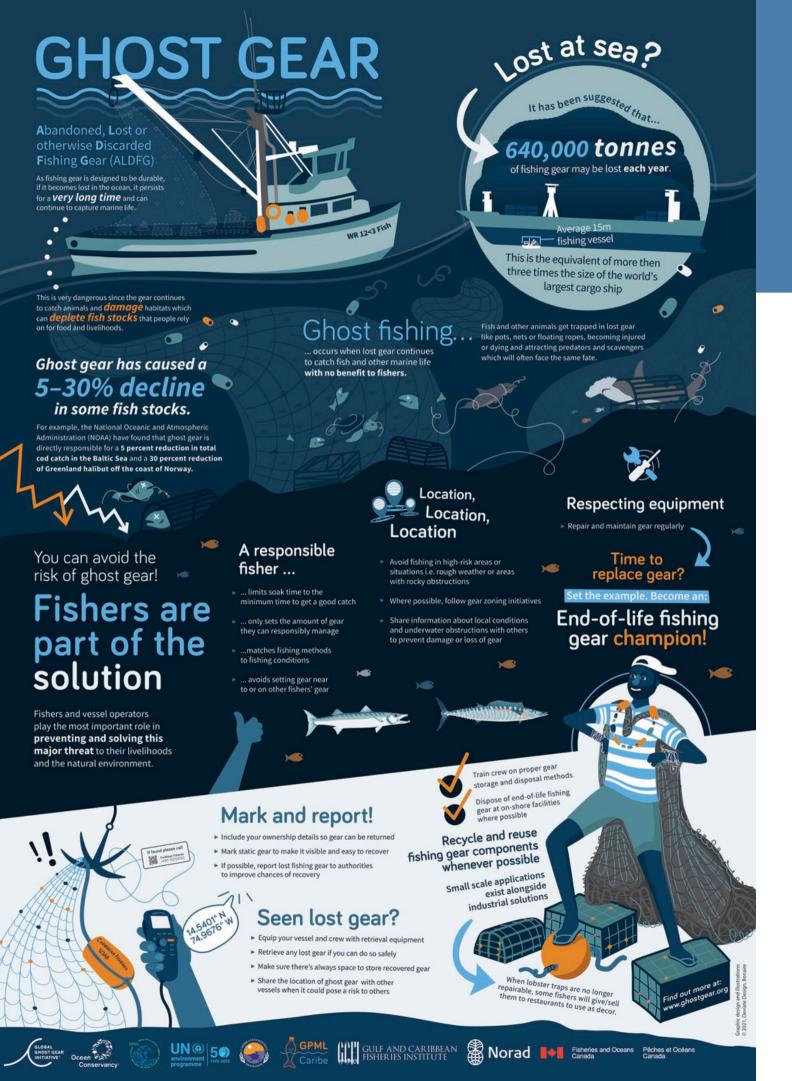
- Partnership with GGGI & Jamaica National Fisheries Authority to conduct gear testing
- Fisher Feedback: technology worked very well but the original biodegradable cotton "rot cord" took too long to biodegrade and trigger the device.
- Electronic timed-release (ETR) mechanism, which allows fishers via an app to set the exact time they need to have the devices activate a combination of emergency buoy and escape hatch



Regional Action Plan

- Partnership with Global Ghost Gear Initiative (GGGI) and Caribbean Regional Fisheries Mechanism (CRFM)
- Based on the GGGI Best Practice Framework for the Management of Fishing Gear and GGGI's work in the region
- Targeted at fishers and fisheries managers to provide guidance on best practices to avoid gear loss and to inform future fisheries management decisions.
- There are vast differences in the causes of gear loss throughout the region - challenging to create a regional document that remains applicable to all actors

Photo Credit: CRFM



ALDFG Products

- The Gulf and Caribbean Fisheries Institute (GCFI) in partnership with the Global Ghost Gear Initiative (GGGI) developed communication products to raise awareness about ALDFG and to promote the adoption of best management practices for preventing and reducing the impact of ALDFG. These factsheets were funded by Fisheries and Oceans Canada and were prepared in
 - English, Spanish and French.



ALDFG Products - Mini Posters



Communication products targeted at decision makers were also produced

Fishers are part of the solution

Fishers and vessel operators play the most important role in preventing and solving this major threat to their livelihoods and the natural environment.

Mark and report!

- Include your ownership details so gear can be returned
- Mark static gear to make it visible and easy to recover
- If possible, report lost fishing gear to authorities to improve chances of recovery

Seen / lost gear?

- Equip your vessel and crew with retrieval equipment
- Retrieve any lost gear if you can do so safely
- Make sure there's always space to store recovered gear

 Share the location of ghost gear with other vessels when it could pose a risk to others



Fisher Led Awareness



- Belief that fishers must be engaged & empowered as part of the process of managing marine resources. • The Gladding Memorial Award recognizes fishers with a vision and commitment to the sustainable use and long-term conservation of marine resources • Fisher Ambassadors visited all relevant fishing communities, cooperatives, fish processing plants, markets and other community establishments to display and distribute communication products. • These Ambassadors capitalized on their authority as respected leaders within their local communities to

- educate communities about ALDFG, and what can be done to reduce fishing gear impacts whilst simultaneously building capacity.



- Value of peer-to-peer interactions
- Beneficial to use fishers as ambassadors since their livelihoods and sustainability depends on the health of the ocean.
- Using local champions allows for increased confidence and trust while improving the probability of candid conversations and information exchange
- By piloting this work in five countries

 (Antigua & Barbuda, Grenada, SVG, St
 Lucia & The Bahamas) we have started to
 build a network where these fishers can
 share their experiences with other fisher
 ambassadors

Lessons Learned



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Mark and report!

Lessons Learned

- Via interactive discussions with fishers, this project uncovered a major limitation within the region.
 Whilst there are several established best practices related to proper disposal of end of life fishing gear, the lack of such facilities within the Caribbean is a major obstacle.
- Although fishers are excited and motivated to do their part to reduce the incidence of ghost gear, the challenge of what to do with their end of life gear is a major issue





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Thank You!

