Discarded species in fishery and suggested methods to reduce

Learning from real life

Case Studies about MARIPET and Discard Fisheries
Use Success Stories

Species selectivity in bottom trawling using grids to reduce non-target species

Case study from (Turkey), identified from research by (University of Dubrovnik, Croatia)

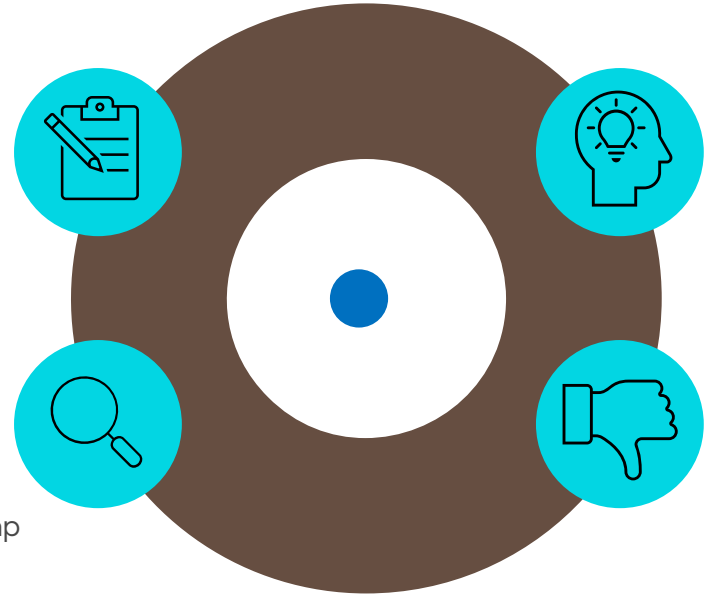
Case Study Overview

Description

Separation grids are one of the various tools and technologies used in modern fisheries management to promote sustainability and reduce the environmental impact of fishing.

Identified (module specific practices)

Use of selectivity grids in the shrimp trawl fishery.



Benefits

Separation grids are one of the ways to reduce discart and they meet the innovation requirements of fishing geer.

Drawbacks

The problem of using the grid to select different fish species and it represents an additional costs for the fishermen.

Description of the Case Study

Species selectivity in bottom trawling using grids to reduce non-target species

The selectivity of bottom trawling using grids is a technique used to reduce the catch of non-target species while targeting specific commercial species and is a valuable fisheries management tool. The effectiveness of this technique depends on factors such as the type of fishery, the target species and the specific design and placement of the grids within the fishing gear.

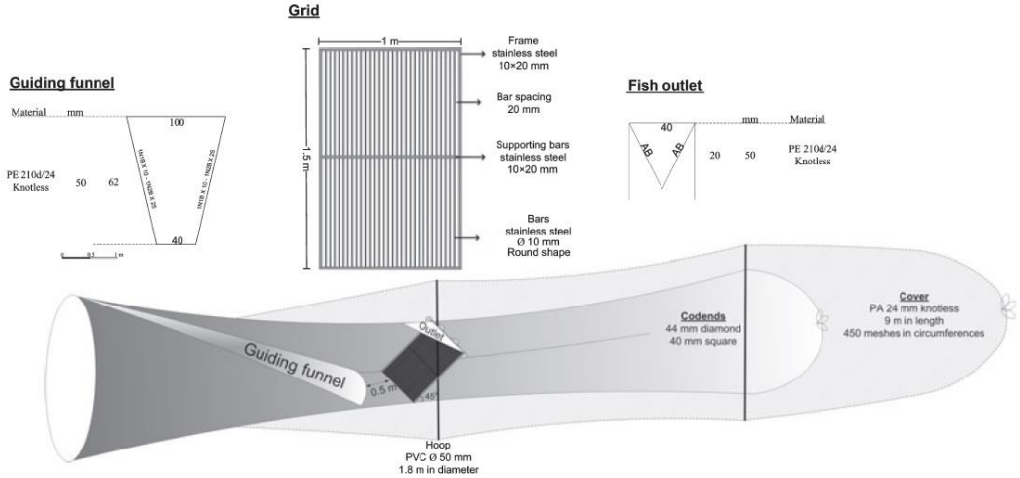


Fig 1. Shematic diagram of sorting system used in experiment (Aydin et al., 2011)

Use of selectivity grids in the shrimp trawl fishery

Sorting grids were originally developed for separating species in shrimp trawling. Since most shrimp are small, they can pass through the grid in a straight line during fishing, while the fish are guided upwards to the escape hole. Since the first successes, many designs have been tested to achieve separation by both size and species, making the use of grids mandatory in several fisheries.

What makes it beneficial to promoting MARIPET?

This case study illustrates one of the methods used to reduce discards.

Innovations in gear development are crucial for sustainable fisheries management.

Environmental and economic impact

1. Reduce discard

2. Preservation of ecosystem structure

3. Reduce of labor costs

4. Long-term viability

References:

- *Aydin, C., Tokac, A., Aydin, I., Erdogan, U., Maktay, B. 2011. Species selectivity in the Eastern Mediterranean demersal trawl fishery using grids to reduce non-target species. Journal of Applied Ichtyology, 27: 61-66*

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