Mesoamerican Reef

The MAR is the largest cross-border coral reef in the Atlantic. Its 1.000-kilometer coastline stretches from the tip of the Yucatan Peninsula in Mexico to the Bay Islands in Honduras, passing through Belize and Guatemala.



FISH REFUGES

To recover fisheries and marine ecosystems in the Mesoamerican Reef (MAR), the creation of fish refuges also known as fish replenishment zones is being promoted.



Overspill benefits

Larvae and juveniles seek protection in mangroves, coral reefs and sea grasses, which are key ecosystems in fish refuges. With the increasing number of organisms, species spill outside the reserve and thus benefit fishers. The spillover of fish more than compensates the loss of income due to







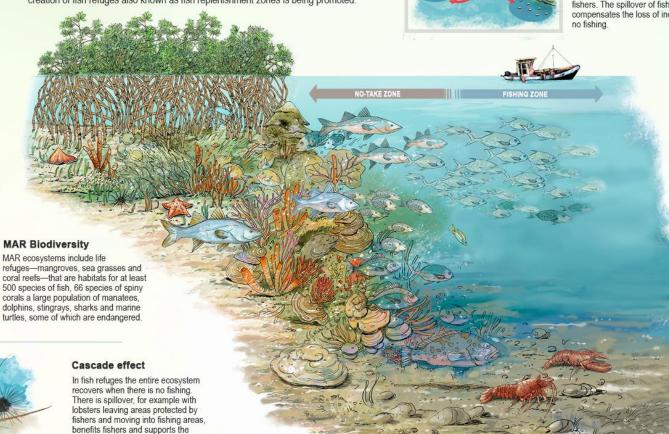
Descendants and maximum size

It is important to allow species to reach their maximum size. Larger fish are able to produce more young. Upon reaching maturity, juveniles will spread within and outside the fish



Spillover zones

Overspill zones are next to fish refuges. After recovering and growing within fish refuges, species spread outside and can be fished according to allowed fishing regulations. Spillover areas are mostly outside marine biodiversity nurseries and include mangroves, sea grass beds and coral reefs of the MAR.



recovery of species.



Life cycles

Many species in the MAR use different ecosystems during the various stages of their lives. Therefore a comprehensive protection of ecosystems is essential to maintain and ensure healthy and abundant species. These ecosystems include mangroves, sea grasses and coral reefs.

- Mangroves
- Sea grasses
- Coral reefs
- Open sea



Monitoring

Underwater monitoring allows determining which species are present. as well as their number and size. Monitoring must be done regularly and always using the same methodology. It is important to monitor within and outside fish replenishment zones to compare differences and assess whether their purpose is being fulfilled.