

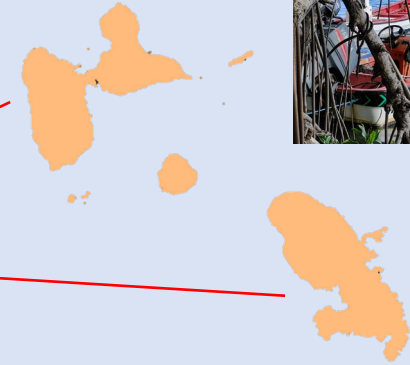
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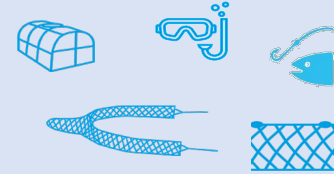
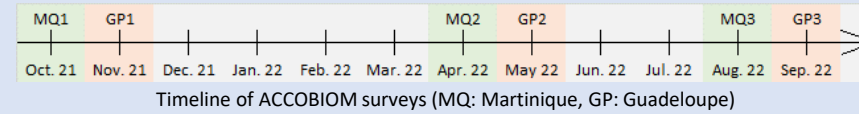
Context

- Data collection of landings and fishing effort started in 2008/2009 in Guadeloupe and Martinique
 - Small-scale, multi-species, multi-gear fisheries with predominant fishing effort in coastal waters
 - Huge number of scattered landing points on these territories (e.g. > 125 in Martinique)
 - No centralization of sellings, quick dispatch of the catches to buyers and other places
 - High diversity of commercial species with sometimes a lot of small individuals
- ⇒ **Catch composition monitoring and biological sampling extremely difficult**



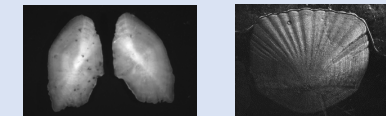
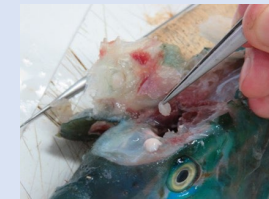
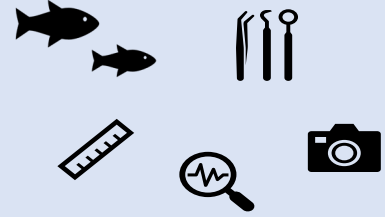
Pilot survey in 2021-2022

- ACCOBIOM project: new biological data about demersal fishes from Guadeloupe and Martinique
 - Field work in laboratory: 15 days in each island at 3 distinct time periods of the year
 - Integral catches were bought directly from a sample of commercial fishers
 - Gears: pots, gillnets, trammel nets, beach seines, handlines, bottom lines, longlines, free diving
 - Agreement from local French authorities (Sea Directorate) for scientific surveys
- ⇒ **Data necessary to assess the health and size of fish populations**



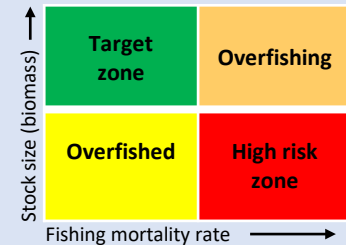
Data collection

- Species identification: scientific name
 - Individual weights: total weight, precision ± 0.1 g
 - Individual lengths: total length and fork length, precision ± 0.5 cm
 - Sex: macroscopic gonad observation (male, female, indeterminate, not assessed)
 - Sexual maturity staging in fish (A, B, C, D, E, F) / Age estimation: otolith, scale or spine
- ⇒ **First data collected for some species or parameters (e.g. age)**



First results

- 122 fishing trips, 181 different species, 6 609 kg fishes (25 271 individuals)
 - Fishing trips and catches composition data
 - Size distributions and morphometric relationships between length and weight
 - Sexual maturity size and maturity guidelines
 - Otolithometry and growth parameters
- ⇒ **Results will be used to improve data collection on a routine basis with new biological parameters from a priority list of species defined at EU Common fisheries policy level**



The life history data will facilitate the development of effective stock assessment procedures with data-poor methodologies for a better management of marine commercial resources

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 76th Annual meeting of the Gulf and Caribbean Fisheries Institute