



CESAB
CENTRE FOR THE SYNTHESIS AND ANALYSIS
OF BIODIVERSITY

FISHGLOB

Fish biodiversity under global change - a worldwide assessment from scientific trawl surveys

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Global change is causing redistribution of marine species worldwide, modifying taxonomic and trait community compositions. These changes may have strong impacts on natural fish biodiversity and related ecosystem services.

However, our capacity to assess and monitor short and long-term changes in species distribution and biodiversity is hampered by the availability and heterogeneity of data.

The project aims at **(i)** collecting and combining unique data sets of more than 70 scientific trawl surveys across the globe (metadata and species abundance from more than 220,000 haul samples) and species traits of marine fishes, as well as assessing changes in **(ii)** species life-history strategy composition and **(iii)** community diversity of fish, across time at complementary spatial scales (local to global), across tropical, temperate and boreal ecosystems.

This project will provide a framework for identifying and predicting biodiversity responses to global changes.

In addition, it will permit the identification of areas of concern, and suggesting measures that might contribute, for example, to mitigate fisheries-related responses to global change.

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CESAB (Centre for the Synthesis and Analysis of Biodiversity) is FRB's flagship program and an internationally renowned research center whose objective is to implement innovative work to synthesize and analyze existing data sets in biodiversity research.

