

# Marine Ecology applied to global change and management issues

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**ICTA –UAB** with the collaboration of **ICM-CSIC**

# Marine Ecology Group [\(\[www.uab.cat/icta\]\(http://www.uab.cat/icta\)\)](http://www.uab.cat/icta)

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Gorgonian and coral ecology

Coastal benthic ecology & protected areas management

Fishery management & conservation

Jellyfish and plankton biology & ecology

Biodiesel & Natural products



Photo: K. H. Williams - Geomar



Project INDEMARES

Project BENTOLARV


Project RED CORAL

Project MEDUSA

Project ANTARCTIC

Project BIODIESEL &  
NATURAL PRODUCTS





**Project INDEMARES:** Continental platform and submarine canyon cartography, biodiversity, key species population structure and health status analysis to promote the inclusion of 12 spanish marine areas as Marine Protected Areas (cruise work, image video-analysis, gonadal output quantification, biochemistry, genetics)

Project BENTOLARV

Project RED CORAL

Project MEDUSA

Project ARCTIC

Project BIODIESEL &  
NATURAL PRODUCTS

Project INDEMARES

**Project BENTOLARV:** Mediterranean passive suspension feeder health status and larval & new recruits fitness in different environments (SCUBA work, physical and biological water column analysis, reproductive patterns observation, biochemistry, laboratory controlled experiments)

Project RED CORAL

Project MEDUSA

Project ARCTIC

Project BIODIESEL &  
NATURAL PRODUCTS

Project INDEFMARES

Project BENTOLARV

**Projects RED CORAL:** Coral gardening (CORGARD), *in situ* and *ex-situ* experiments to promote red coral (*Corallium rubrum*) banks restoration in shallow waters (0-60 m depth); population structure monitoring and socio-economical aspects of red coral exploitation (CORALLIUM Endangered, SCUBA work, photo-image analysis, transplantation experiments, biochemistry, growth experiments, sociological data analysis); Red coral and ocean acidification (MedSea)

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**Project MEDUSA:** Distribution, population structure, reproduction, energy flux in trophic chains, economical & sociological impact (fisheries and tourism) of the main species of jelly fish in the Mediterranean Sea (field observation, gonadal observation, biochemistry, aquarium experiments, analysis from socio-economical data, scientific outreach)

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**Project ANTARCTIC:** Phytoplankton characterization and food availability (seston) through different biomarkers in polar waters; trophic markers used in benthic-pelagic coupling with different taxonomic groups; energy flux analysis from the surface to the deep waters (biochemistry, stable isotopes)

Project BIODIESEL &  
NATURAL PRODUCTS



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Project ARCTIC

**Project BIODIESEL** : Optimization of second generation biofuels (microscopic marine algae, especially dinoflagellates) with controlled experiments, bioreactor construction and energy and monetary flux studies; & **NATURAL PRODUCTS**: Chemotaxonomy and investigation of new organic molecules to be produced in controlled environments (strain cultures, lipid measurements, organic molecules identification, bioreactor optimization, energy & monetary flux studies)

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Photo: K. Hill / Monterey Bay - Geomar



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