

## SSD BIO07 ECOLOGY

### **Biodiversity, monitoring, conservation and environmental management: species, ecosystems and habitats**



Distribution, diversity, structure and dynamics of communities and seascapes; assessment of the status of marine ecosystems using ecological indices; environmental monitoring and management of allochthonous invasive species and of protected species; cartography of marine habitats; marine communities ecology; ecology of change; effects of human pressures and climate change on organisms and communities, on species interactions and biogeochemical cycles in coastal and offshore systems; beach environment ecology; tropical marine ecology and Antarctic ecology; aquaculture and sustainable use of marine resources; aquaculture of marine invertebrates; biology and monitoring of fishery; integrated coastal zone management, Marine Protected Areas management; environmental impact assessment and response of model species; ecology and modelling of marine toxic microalgae blooms; technologies and informatization for marine monitoring and use of environmental data; development of Spatial Decision Support Systems (SDSS); assessment of the sustainability level of territory, population and production, identification and assessment of environmental functioning and services; ecological economy; ecotoxicology in aquatic environments; dispersal and impact of pollutants at sea; modelling of functionality and vulnerability of ecosystems; modelling of species and habitat distribution; habitat and species restoration.

**Keywords:** biodiversity and conservation, ecological monitoring, environmental sustainability, ecosystem functioning and services, seascape ecology, marine habitat characterization and mapping, fishery and aquaculture, ecotoxicology, marine environmental technology, underwater survey and sampling methods, habitat and species restoration.

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