



Academia and Research, Think Tank / Participants

University of Portsmouth

The Centre for Blue Governance at the University of Portsmouth aims to meet the holistic and multi-disciplinary research needed to inform blue governance mechanisms. The CBG takes a more expansive view of Blue Economy to encompass marine and freshwater systems and conceptualises them as development spaces. The overall objective of the Centre is multidisciplinary collaboration to contribute to the design, setting-up and implementation of blue growth in countries, regions and political entities. It will develop and provide inter-disciplinary research expertise at both sectoral (various economic branches) and overall levels (coordination, planning) with a strong emphasis on the challenge synergising nature conservation and economic development. The Centre for Blue Governance will also serve as a nexus to facilitate collaboration across stakeholders in blue governance. It provides multi-discipline expertise to the multi-sector and multi-user landscape of aquatic governance. The Centre's activities encompass research, development policies, social justice and education.

AREAS OF ACTIVITY

Biodiversity, Nature-Based Solutions, Ecosystem Services, Bioeconomy, Earth observation & Environmental, Observation, Marine, Coastal, Fluvial Management, Research & Development, Social Science & Humanities

Climate change adaptation

PROJECT

MACOBIOS

The EU 2020 Biodiversity strategy and 7th Environment Action Programme highlight the importance of halting the loss of biodiversity and ecosystem services (ES) by preserving ecosystems and fully integrating environmental requirements into policymaking to face climate change (CC). The main challenge to help the EU deliver on these targets is to fill knowledge gaps on inter-relations between CC, biodiversity and ES, and to ensure an effective transfer of knowledge to relevant stakeholders. Marine coastal ecosystems (MCE) are European priority habitats as almost half of its population lives in its maritime regions. MaCoBioS objective is to ensure efficient and integrated management and conservation strategies for European MCE to face CC. To this end, MaCoBioS has assembled a multidisciplinary team of experts to fill the lack of knowledge on the impacts of CC on the most important MCE (seagrass beds, coral reefs, mangroves, coralligenous and calcareous bio-concretion assemblages, salt marshes and kelp

forests). Four specific objectives have been developed: 1) Develop new empirical models on the interaction between CC, biodiversity, functions and services in MCE along a geographical gradient from the tropics to the sub-polar regions, incorporating indicators of the ecological condition in the functional modelling of MCE. 2) Establish a framework to assess the vulnerability of marine social-ecological systems under CC scenarios. We will develop vulnerability indices specifically for that purpose. 3) Evaluate the effectiveness of nature-based solutions and protection measures at enhancing the resilience capacity of MCE and the delivery of services, with the end goal of providing long-term solutions to CC threats. 4) Provide evidence-based guidance for marine policy formulation and innovative research pathways to support policymakers in developing cost-effective strategies and create further research opportunities to meet the targets of EU strategies on Biodiversity and CC. Contact: Pierre Failler <https://www.ecca21.eu/participants/1964> Official website of the project: <https://macobios.eu/>

Applies to

Climate policy, National level, Regional level, Climate modelling, Adaptation strategy, Climate change adaptation, Climate change mitigation, International cooperation, Marine, coastal, fluvial management, Disaster risk management and reduction, Biodiversity, ecosystem restoration, ecosystem services



ECCA 2021 - Climate Adaptation solutions – MaCoBios

Video <https://youtu.be/nejzb-lKtAA>

