

Academia and Research, Think Tank / Participants

University of Hamburg

Universität Hamburg, with its >43000 students and >12800 staff members, is the largest institution for research and education in northern Germany. The University boasts numerous interdisciplinary projects in a broad range of fields and an extensive partner network of leading regional, national, and international higher education and research institutions. In 2019 UHAM was one of 11 university to receive a national ranking of “excellent”.

AREAS OF ACTIVITY

Biodiversity, Nature-Based Solutions, Ecosystem Services
Climate Modelling
Education
EU Projects
Research & Development
Climate change adaptation

PROJECT

FutureMARES - Climate Change and Future Marine Ecosystem Services and Biodiversity

Research for Sustainable Marine Eco-systems and Biodiversity in a Climate Changed World FutureMARES is an EU-funded research project examining the relations between climate change, marine biodiversity and ecosystem services. Our activities are designed around three Nature-based Solutions (NBS): Effective Restoration (NBS1) Effective Conservation (NBS2) Sustainable Harvesting of Marine Resources (NBS3) We're conducting our research and cooperating with marine organisations and the public in five Case Study Regions across the globe. Our goal is to provide science-based policy advice on how best to use NBS to protect future biodiversity and ecosystem services in a future climate. Contact: Anastasia Walter

<https://www.ecca21.eu/participants/1824> Official website of the project:

<https://www.futuremares.eu/>

Applies to

Coordination
Communication
Climate services
Climate modelling

Adaptation strategy

Climate change adaptation

Climate change mitigation

Environmental observation

International cooperation

Marine, coastal, fluvial management

Biodiversity, ecosystem restoration, ecosystem services

Assessment of climate change impacts (physical, economic, social...)



ECCA 2021 - Climate Adaptation solutions – FutureMARES

Video <https://youtu.be/U2iSbf2R11g>

ECCA 2021 Climate Adaptation solutions - FutureMARES

adaptation and mitigation to safeguard future biodiversity, and ecosystem functions, maximising natural capital and its delivery of services from marine and transitional ecosystems.

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Climate Change & Interacting Hazards
Warming, OA, deoxygenation, sea level rise, extreme events
pollution / eutrophication, invasive species ...

NBS-1 Restoration **NBS-2 Conservation** **NBS-3 Sustainable Harvesting**

Services & Cultural Benefits

NBS 1	Flood / Erosion Control Storm protection Shoreline stabilization
NBS 1,2	Carbon sequestration Reducing OA and warming
NBS 1,2,3	Fish & shellfish harvests Breeding and nursery habitats Wild plant/animal resources Recreation / Tourism Human well being / Cultural heritage ...

Export biomass Export of biomass

Watch on YouTube

Future MARES

The video thumbnail illustrates the FutureMARES project's focus on Nature-Based Solutions (NBS) for climate adaptation. It shows a coastal landscape with a sun, a thermometer indicating CO2 levels, and a red arrow pointing down to the ocean. Three NBS strategies are highlighted: NBS-1 (Restoration) showing a boat near a shoreline, NBS-2 (Conservation) showing a bird flying over the water, and NBS-3 (Sustainable Harvesting) showing a fishing boat. A central red play button is overlaid on the image. A table in the bottom left corner lists the services and cultural benefits provided by these NBS strategies. The FutureMARES logo is in the bottom right corner.