

What's there, how does it work?

What does it do for us?

What's its value?

How do we measure that?

What happens if?

What/who does that affect and how?

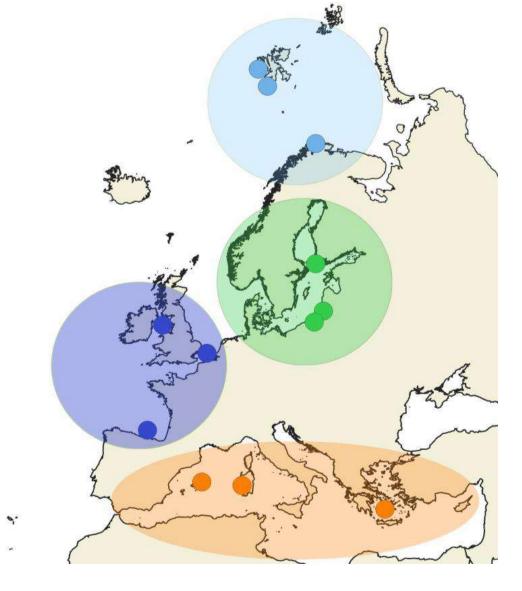
The overall aim of MARBEFES is to determine the links between biodiversity, ecosystem functioning and the resulting ecosystem services and societal goods and benefits and to achieve ecological and socio-economic valuation through a validated set of innovative tools in a distributed toolbox to enhance policy and governance for the marine environment to secure its benefits for current and future generations.

We will progress substantially beyond the current state-of-the-art understanding of the Causes and consequences of biodiversity decline, and the loss and gain of ecological and economic value and the repercussions for marine management and governance across European seas.





Geographical coverage: 12 Broad Belt Transects in 4 regions







MARBEFES project has received funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement no 101060937

WP 1

Stakeholder Involvement and Governance Tools

Stakeholder co-design, regulations, policy and management

WP 2

Broad Belt Transects across European Seascapes

Biodiversity characterisation, testing of tools and solutions

WP3

Biodiversity and Ecosystem Tools

Tools for biodiversity, function and services Innovative biodiversity monitoring WP 5

Integration and Scenarios

Synthesis and harmonisation of tools and data

WP 4

Ecological, Social and Economic Valuation

Tools for biodiversity valuation

Upscaling/Outscaling for Governance & Stakeholders

WP 6

Out-scaling tools to broader contexts (validation), upscaling lessons and practitioners' perspectives from BBTs to European policy



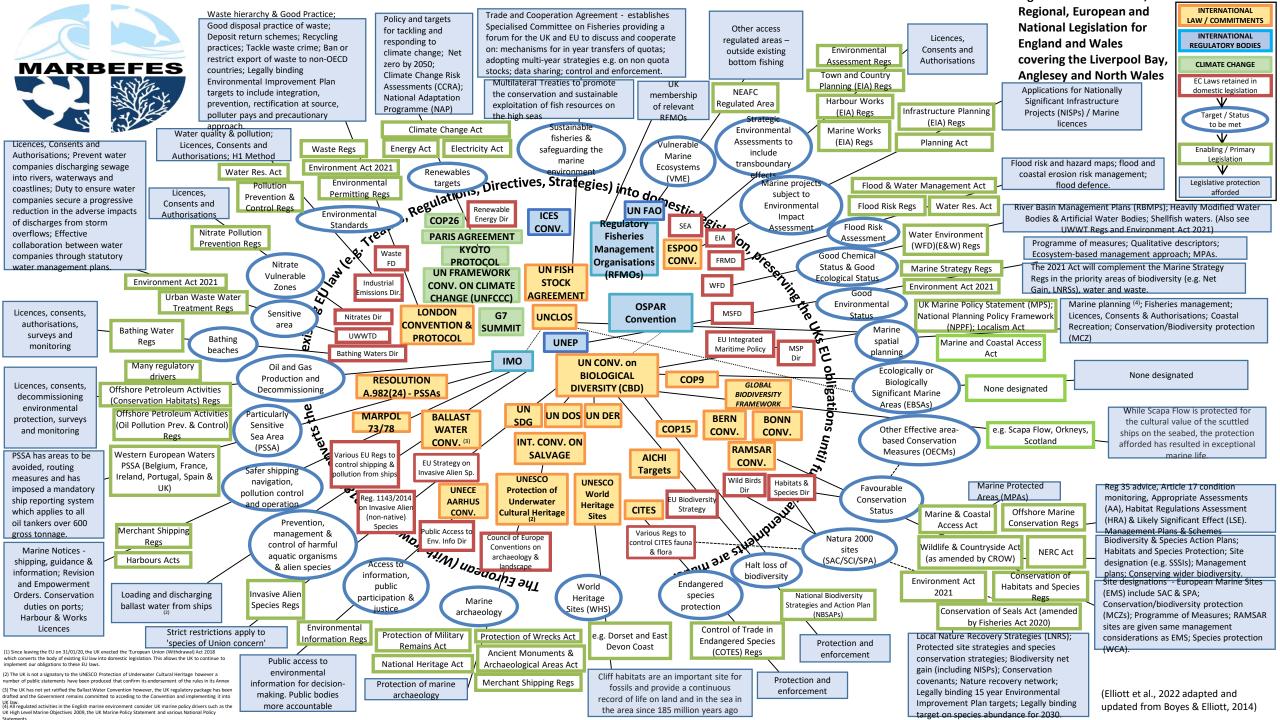
Project Coordination and Outreach

Project and data management, communication/networking, education, training and ocean literacy

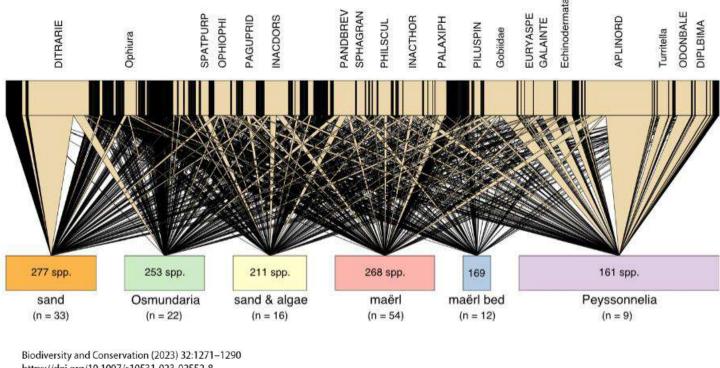
Wide consultations with stakeholders in all analysed areas







WP3	Ecological	Causal paths - Bayesian Belief Network (BBN)	Visualisation of the network, [tool point of contact to confirm what other data produced]	In development, awaiting instructions
WP3	Ecological	Ecological Interaction Networks – structure and function	Visualisation of the network and summary statistics	In development, awaiting instructions



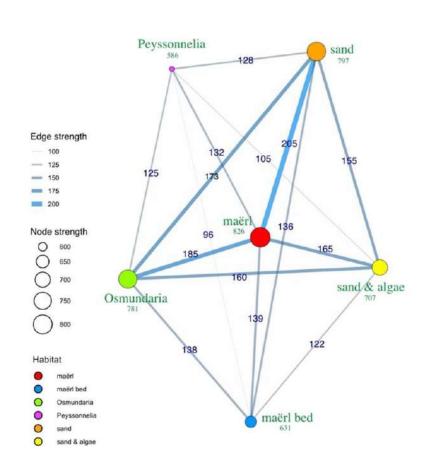
https://doi.org/10.1007/s10531-023-02552-8

ORIGINAL RESEARCH



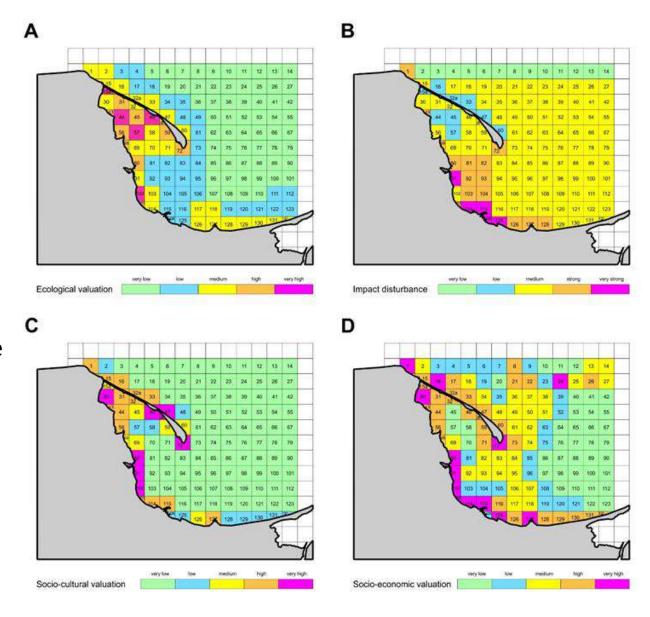
The continental shelf seascape: a network of species and habitats

Silvia de Juan 1 · Andres Ospina-Alvarez 1 · Hilmar Hinz 1 · Joan Moranta 2 · Carmen Barberá³



Three different ways of ecosystem valuation: Ecological value (no reference to human use) Socio cultural valuation Socio-economic valuation

All three above, biodiversity and human impact are not directly correlated-

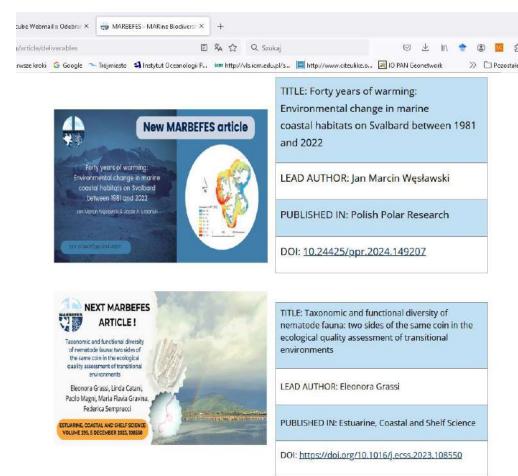


Publications, public events, popular science picnics etc...





BioBlitz - is a special event, where biologists are gathered in one place accessible to the public to identify as many as possible species within 24 hours. This is both important scientific data collected by professionals and a public event that shows how rich is the biodiversity even in the most trivial sites. Important observation is how many specialists one needs to identify all aorganisms - from uni cellular algae to bats and fish. No one knows all the species. Within MARBEFES project we wants to organise such events in all of the four regions - Sopot (June 2023, Tromso June 2024, Dublin 2025 and Sardinia 2025). The first from the four planned MARBEFES BioBlitz actions was organized at the Baltic seasone in Sopot, Poland. The key idea is to find coastal site that is accessible and known for the wide public - ideally a public oaks at the spacific. This was the case in Sopot with "Boat Polingory" that covers coastal local decilions.







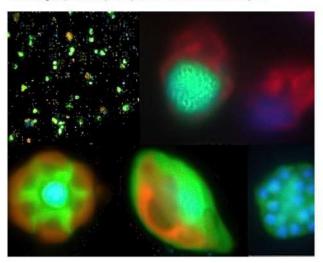
Promoting woman in marine research – "Woman view of the sea"

Theme 21 Fascinating marine micororganisms in the seawaters

Presented by dr hab. **Katarzyna Piwosz** Morski Instytut Rybacki PIB, Gdynia



Sickness, decomposition, death are usual connotations with microbs. This opinion comes from our anthropocentric via of the world. Microbs are life, they produce every second molecule of oxygen that we breathe. First living form on earth was a microb, and most likely the last will be microb as well. Microbs i.e. bacteria, fungi and protists are key and very little known element of the marine ecosystem.



WOMAN VIEW OF THE SEA

ART INKUBATOR W SOPOCIE
PAŃSTWOWA GALERIA SZTUKI W SOPOCIE











Theme 21 Fascinating marine micororganisms in the seawaters

Edyta Kołakowska, Gdynia

I am artist, who was graduated as oceanographer, I am leader of the Emocean Edyta Kolokowsko Mark, and use to create products and art inspired by the Sea, what reflects my personal experience and knowledge about the marine realm.





WOMAN VIEW OF THE SEA

ART INKUBATOR W SOPOCIE
PAŃSTWOWA GALERIA SZTUKI W SOPOCIE









Vitamin Sea, acrylic on canvas

My work presents microcropinisms in the abstract form. Capitivating colors and forms may show that micro-fragments are as important in the sea as witcomes in turnantife. Inspiration for this work comes from the colored blown glass installations.

My action towards sustainability: reduced water intake, recycled canvas

