
December 2023 Newsletter



Wow and that's a wrap. Start saying your goodbyes to 2023, grab a hot cup of something (or cold) and get into this Christmas edition of the latest MaCoBioS updates and movements from the last half of this year.



Highlights

Co-defining nature-based management solutions for the Apulian marine coastal areas.

WHICH MANAGEMENT MEASURES TO ADAPT WITH NATURE?



The above infographic depicts the **results of a workshop** held by the [CMCC](#) from 7th - 8th November 2023 in Lecce (Italy). Together with local stakeholders, they discussed the **future of the Apulia marine and coastal areas/ecosystems**. Collaboratively, three distinct management scenarios were defined: **Compensation, Restoration, Cooperation and Sharing**. These 3 management scenarios will be integrated into the **spatio-temporal bayesian network model** designed for the Italian case study.

Effects of climate change on marine coastal ecosystems – a review to guide research and management.

In the latest publication by MaCoBioS, **20 scientists** engaged in a **momentous collaborative** effort to **identify** and **synthesise** current information on the effects of **the combined pressures of climate change and local stressors** on **marine ecosystems** including, North-East Atlantic kelp forests, salt marshes and seagrass beds, Mediterranean corals *Cladocora caespitosa*, maërl beds and seagrass beds, and Caribbean coral reefs, mangrove forests and seagrass beds. Read more in our blog [here](#), and see under recent publications for the full manuscript.



Activities and Events

Conferences and Outreach

- In **September 2023**, the [CSIC](#) team attended the [7th International Coralline Algae Meeting](#) (ICAM) in Umea (Sweden). The conference attracted around **60 international experts on coralline algae**. A **2-day field trip** to islands near Tromsø (Norway) complemented the conference. Selected contributions to this conference will be published in a special issue of the journal "**Aquatic Conservation: Marine and Freshwater Ecosystems**". Stay tuned !
- From the **18th to 22nd September 2023**, [Elena Allegri](#) and **Cengiz Arslan** (A PhD student from the University of Wageningen) attended the International Conference for Young Marine Researchers (**ICYMARE**). Elena and Cengiz hosted a joint session within the two projects **MaCoBioS** and **Rest-Coast**, titled "**Identifying spatial opportunities for NBS design and implementation in marine-coastal areas**".
- The [CMCC](#) and [IOPR](#) teams attended the [SERestoration](#) conference in **Darwin, Australia** from 26th to 30th September. It was co-hosted with the [UN Decade on Ecosystem Restoration](#). **Géraldine Pérez** presented the restorative activities implemented by the Oceanographic Institute Paul Ricard. **Elena Allegri** from CMCC also presented her **PhD work "Optimizing land-sea management for mitigating water quality degradation under a changing climate"**.



Géraldine Pérez and Elena Allegri at the Society of Ecological Restoration Conference on restoration (SER conference) 2023, in Darwin Australia.

Recent Publications

Casal, G., McCarthy, T. (2023). Marine coastal ecosystems in Ireland in a three-dimensional context: scientific, legislative and media news. *Ocean and Coastal Management*, 244, 106796. <https://doi.org/10.1016/j.ocecoaman.2023.106796>

Trégarot, E., D'Olivo, J.P., Botelho, A.Z., Cabrito, A., Cardoso, G.O., Casal, G., Cornet, C.C., Cragg, S.M., Degia, A.K., Fredriksen, S., Furlan, E., Heiss, G., Kersting, D.K., Maréchal, J.-P., Meesters, E., O'Leary, B.C., Pérez, G., Seijo-Núñez, C., Simide, R., van der Geest, M., de Juan, S. (2024). Effects of climate change on marine coastal ecosystems - A review to guide research and management. *Biological Conservation*, 289, 110394. <https://doi.org/10.1016/j.biocon.2023.110394>



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MaCoBioS · Centre for Blue Governance, University of Portsmouth · Richmond Building, Portland Street · Portsmouth, PO1 3DE ·
United Kingdom