

# FINMARI news flash April 2025

## **FINMARI Consortium News**

The 10<sup>th</sup> FINMARI Researcher Day, hosted by the Finnish Meteorological Institute, was fully booked with enthusiastic marine researchers. During the one-day event we heard topical research news from the excellent talks and posters. We want to thank the organizers and all attendees for making the relaxed and nice atmosphere in the event! See the event page **HERE** 



## Spring monitoring cruise on RV Aranda

The COMBINE spring cruise 14-29. 4. 2025 covers the northern Baltic Proper, Åland Sea and the southern part of the Bothnian Sea. Besides the regular variables T°C, salinity, pH, H<sub>2</sub>S, nutrients and phytoplankton, research on pelagic/benthic fluxes will be carried out in collaboration of several institutes.





## **Transnational Access call of IRISSC**

The Integrated Research Infrastructure Services for Climate Change Risks (IRISSC) opens a transnational access call in April 2025. Check out the RI services offered across Europe HERE.

## AAU mesocosm network is ready to roll

The mesocosm network of Åbo Akademi University has been developed in the Archipelago Sea and the Åland Islands to support experimental marine research at the community level. The systems can simulate a wide range of underwater climates, including future extremes. The infrastructure is now open for national and international collaboration. This summer, the focus is on physiological shifts in native and invasive ranges of the mud crab. In 2026, the network will be part of a Nordic-wide coordinated seagrass experiment study impacts of warming on Zostera marina and its epifaunal community.

More information on the mesocosm systems can be found <u>HERE</u>. If you are interested in joining existing efforts or running a collaborative experiment yourself in one of the sites, please contact Giannina Hattich giannina.hattich@abo.fi (Research Technician at ÅAU) and/or Christian Pansch-Hattich cpanschh@abo.fi (Prof. in Marine Ecology at ÅAU).



#### Publication: Marine heatwaves amplify benthic community metabolism and solute flux in a seafloor heating experiment

A novel in situ experimental setup was used to study the effect of elevated water temperatures on the benthic ecosystem. In the 15-d experiment, the elevated temperatures caused a significant increase in community respiration and amplified the magnitude of either efflux or influx of ammonium, phosphate and silicate. Primary production remained mostly unaffected by the heatwave treatment, while heterotrophy was more influenced by increased temperatures.



who in FINMARI

# Martin Snickars, Head of Husö Biological Station, Åbo Akademi University

Martin is an expert in coastal water ecosystem research, fish nursery areas, GIS (ArcGIS, QGIS), data analysis, and data mining. He has led the Husö Biological Station in the Åland already since 2014. More information in Orchid:

https://orcid.org/0000-0001-9168-7474

# Planktonlive in collaboration with WWF

The first ever Planktonlive i.e., real-time observations of Baltic Spring bloom phytoplankton photographed with the ImagingFlowCytoBot were sent from Utö Atmospheric and Marine Research Station 14-15.4.2025. Experts also answered questions from the audience. The video can be seen HERE.



IFCB photos: Kaisa Kraft Syke

The article is published in BES Functional Ecology https://doi.org/10.1111/1365-2435.70028

### News from the world: Bioturbation in the hadal zone

Our current understanding of the hadal (6–11 km deep ocean) suggests that it can host species diversity and habitat heterogeneity comparable to that of shallow-water environments. This paper documents biogenic sedimentary structures and colonization successions in sedimentary cores from the hadal zone in Japan trench.

The article is published in Nature Communications https://doi.org/10.1038/s41467-025-56627-x

# Save the date: Seminar on particles in the marine environment

The event will take place on 28.10.2025 at the Geological Survey of Finland (GTK) in Espoo, Finland. The seminar has invited European experts on the instrumented benthic lander measurements of biological and mineral particles. The seminar is part of the PHYTOTRANS project, funded by the Research Council of Finland, and it is open to all interested scientists, experts and authorities. More information will follow.













