FINMARI Researcher day, 23.3.2022, Poster - PhD plan, Lucinda Kraufvelin



## Impacts of marine heatwaves on the functioning of Baltic Sea coastal ecosystems under the influence of non-indigenous species



1. Assess how MHWs of present and future intensities may modify trophic interactions, affect structure and alter functioning of key coastal ecosystems

- 2. Assess how NIS and native species differ in their sensitivities to MHWs
- 3. Assess how the inclusion of a NIS in a food web may alter the community response, resistance and resilience to MHWs

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During 2022, community mesocosm experiments exposing Baltic Sea communities to future and present-day intensities of MHWs (Fig. 2) will be conducted in **Kiel** and **Korpoström** (Fig. 3a).



 Figure 3. a) The mesocosm system (20 experimental units) at Korpoström Archipelago Research Centre. Picture: S. Rühmkorff.
b) Benthos recruited to an experimental unit in 2021. Picture C. Pansch

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