

Live Lagoons

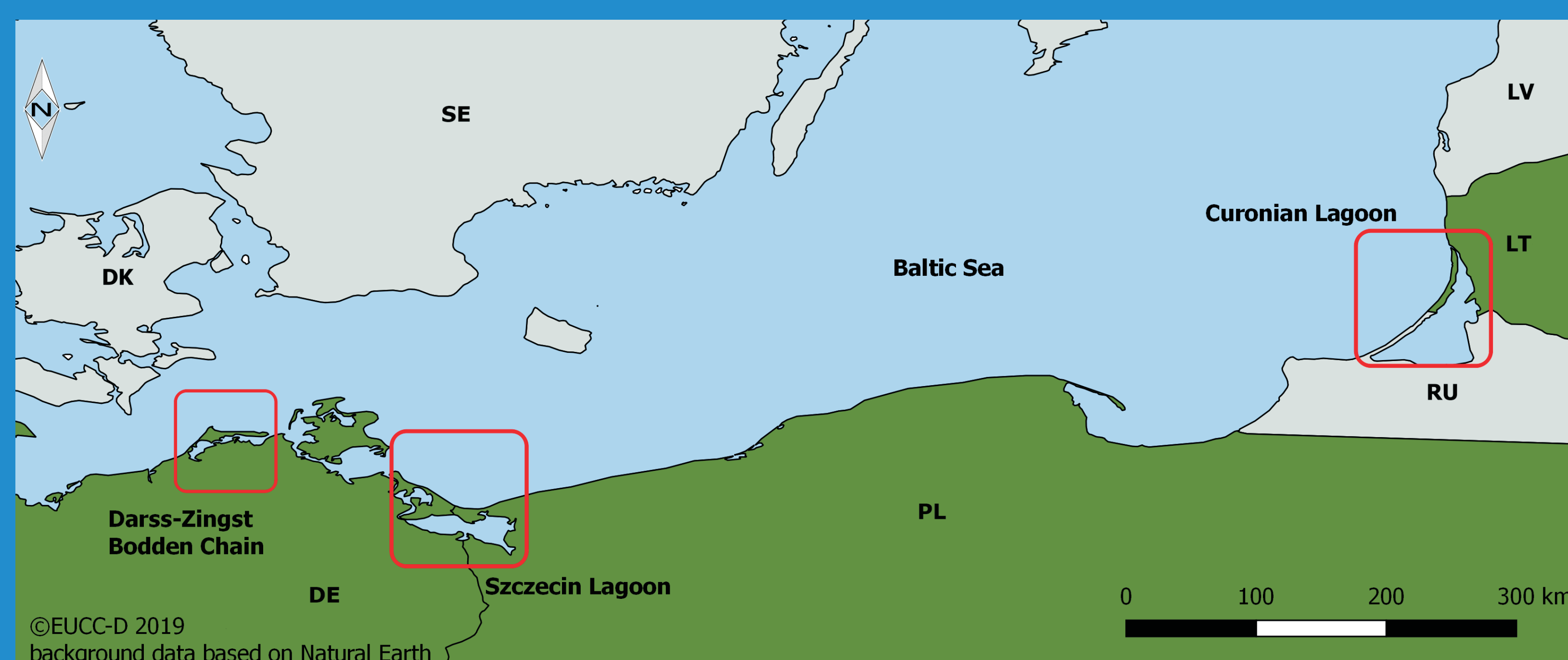
The use of floating macrophyte islands for nutrient removal and local water quality improvement in Baltic lagoons

Objectives

Floating macrophyte island systems aim to restore and rehabilitate coastal habitats and improve local water quality by nutrient absorption and removal. The project applies, so called, 'active' or 'living' barrier units to improve water quality and create bathing conditions, inside the South Baltic lagoons, where algal blooms and sediment resuspension prevent recreational bathing. Floating islands are expected to improve eutrophic conditions since the root systems in the water column take up nutrients.



Study sites



Islands installations located in Germany, Poland and Lithuania

Multiple aims

- Remove nutrients from eutrophicated waters
- Attenuate water flow and wave energy
- Enhance sedimentation and sediment stability
- Promote biodiversity
- Offer habitats for microbes, insects and birds
- Contribute to recreation and tourism
- Provide biomass for further utilization
- Create an atmosphere of innovation and blue growth in coastal communities

Partners

Klaipeda University (Lithuania)

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EUCC - The Coastal Union Germany e.V.
(Germany)

IBW PAN - Institute Of Hydro-Engineering Of
The Polish Academy Of Sciences (Poland)

Curonian Spit National Park (Lithuania)

Project facts

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