Optimization of mussel mitigation cultures for fish feed in the Baltic Sea

Aims & objectives

The BONUS OPTIMUS project aims to provide robust evidence-based documentation (ecological, social, and economic) on optimized use of farmed mussel as a mitigation tool for eutrophication that in turn can be a sustainable protein-rich feedstuff for fish.

Objectives:
- Documentation of ecosystem goods and services by mussel farming.
- Assessment of impact and mitigation methods of mussel bio-deposition underneath mussel farms.
- Provision of multi-criteria optimal site selections of mussel farming as input to marine spatial planning.
- Optimization of the production capacity, security and costs of farmed mussels.
- Development of cost-efficient techniques for processing mussels into fish feed.
- Testing mussel meal as a marine protein ingredient in fish feed.
- Exploration of the social-economic barriers, solutions and perspectives of the mitigation concept.

Study sites

Partners

- Danish Technical University, National Institute of Aquatic Resources; Coordinator: Prof. Jens Kjerulf Petersen
- Aarhus University, Denmark
- Leibniz-Institute for Baltic Sea Research Warnemünde, Germany
- EUCC – The Coastal Union Germany, Germany
- Swedish University of Agricultural Sciences, Sweden
- University of Gothenburg, Sweden
- Institute of Oceanology of the Polish Academy of Sciences, Poland
- GRAIN Wood A/S, Denmark
- Hjarnø Havbrug A/S, Denmark

Structure

Project facts

BONUS OPTIMUS receives funding jointly from the European Union’s Seventh Programme for research, technological development and demonstration, and from Baltic Sea national funding institutions (BONUS, Art 185).

Budget: 2.9 Mio €
Duration: April 2017 - March 2020
Contact: Jens Kjerulf Petersen; jekjp@aqua.dtu.dk

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