Kirsten Thomsen - DTU Orbit (25/12/2017)
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Organisations

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Publications:

Ecosystem productivity: From: DTU Climate Change Technologies

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Organisations: Institute Management, National Institute of Aquatic Resources, Biosystems Division. Management, Biosystems Division, Risø National Laboratory for Sustainable Energy, Ecosystems, Section for Ocean Ecology and Climate, Research Secretariat
Publication date: 2009

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Projects:

Facilitating open science to European research (FOSTER, GA 612 425)(39146)
FOSTER is a coordination initiative that aims to support the full range of stakeholders in the research lifecycle, but especially young researchers, in adopting Open Science principles (Open Access, Open Data, Open Note Book, Open Educational Resources, Social Media for dissemination of research results) in the context of the European Research Area (ERA) and in complying with the open access policies and rules of participation set out for Horizon 2020 (H2020).

FOSTER will focus on integrating Open Science principles and practice in the current research workflow by targeting the young researchers training environment. In addition, FOSTER will strengthen the institutional training capacity to maintain compliance with the open access policies in the ERA and H2020, and will facilitate the adoption, reinforcement and implementation of open access policies from other European funders, in line with the European Commission’s recommendation.

The project is coordinated by University of Minho.

The project is funded by EU, Horizon 2020.

Department of Civil Engineering
National Institute of Aquatic Resources
Research Secretariat
Office for Innovation & Sector Services
University of Minho
The development of tools for tracing and evaluating the genetic impact of fish from aquaculture (AquaTrace) (38948)

The genetic changes associated with domestication in aquaculture pose an increasing threat to the integrity of native fish gene pools. Consequently, there is a burgeoning need for the development of molecular tools to assess and monitor the genetic impact of escaped or released farmed fish. In addition, exploration of basic links between genetic differences among farmed and wild fish and differences in important life-history traits with fitness consequences are crucial prerequisites for designing biologically informed management strategies.

The project “AquaTrace” will establish an overview of current knowledge on aquaculture breeding, genomic resources and previous research projects for the marine species seabass, seabream and turbot. The project will apply cutting-edge genomic methods for the development of high-powered, cost-efficient, forensically validated and transferable DNA based tools for identifying and tracing the impact of farmed fish in the wild. Controlled experiments with wild and farmed fish and their hybrids will be conducted with salmon and brown trout as model organisms using advanced “common garden” facilities. These experiments will elucidate the fundamental consequences of introgression by pinpointing and assessing the effects on fitness of specific genomic regions.
Generated insights will form the basis of a risk assessment and management recommendations including suggestions for mitigation and associated costs. This information and the developed molecular tools will be available as open-access support to project participants and external stakeholders including the aquaculture industry. The project is expected to facilitate technology transfer to the aquaculture sector by promoting better tailored breeding practices and traceability throughout production chain. Overall this initiative will support the development of sustainable European aquaculture and provide “Good Environmental Status” in line with the Marine Strategy Framework Directive.

This project involved 21 partners and was coordinated by DTU Aqua.

The project is funded by EU, Framework Programme 7.
National Institute of Aquatic Resources
Section for Marine Living Resources
Havforskningsinstituttet
Università degli Studi di Padova
Universidad de Santiago de Compostela
Katholieke Universiteit
TRACE Wildlife Forensics Network Limited
European Commission - Joint Research Center
INRA Institut National de La Recherche Agronomique
Bangor University
Period: 01/11/2012 → 31/10/2016
Number of participants: 5
Research area: Population Genetics
Project participant:
Bekkevold, Dorte (Intern)
Mensberg, Karen-Lise Dons (Intern)
Project Manager, organisational:
Thomsen, Kirsten (Intern)
Phd Student:
Frank-Gopolos, Thomas (Intern)
Project Coordinator:
Eg Nielsen, Einar (Intern)

**Indicators for fisheries management in Europe (IMAGE) (38225)**

The Common Fisheries Policy (CFP) requires the progressive implementation of an ecosystem-based approach to fisheries management (EBFM). To implement effective management, it is essential to develop a framework that allows for the evaluation of different management strategies based on indicators. Indicators can support the decision making process by (i) describing the pressures affecting the ecosystem, the state of the ecosystem and the response of managers, (ii) tracking progress towards meeting management objectives and (iii) communicating trends in complex impacts and management processes to a non-specialist audience. The aim of this project was to develop an indicator-based operational framework that can support ecosystem-based management, and also show how this can be applied to test and evaluate different management strategies or sampling programs.

The principal objectives of IMAGE were:-To develop an operational framework of candidate indicators (ecological, economic, social) that can support ecosystem-based fisheries management at the regional and pan-European scale-To elaborate these indicators in comprehensive dashboards (e.g. current values, trends, reference levels)-To develop methodology to integrate this information into tools supporting the decision-making process-To develop a framework that can evaluate management strategies based on indicators-To advise on how indicators can be used to support EBFM in selected regional case studies based on the RAC areas.

The project consisted of a conceptual phase where the operational framework was designed. This was followed by a phase of methodology development, an implementation phase consisting of regional case studies linked to the RACs and finally a pan-European evaluation and synthesis of the projects results. The results of this project contribute to the development of an effective EBFM in the context of the CFP, while also contributing to the applied science needed to support the emerging European Marine Strategy and Maritime Policy.

The project was coordinated by Institute for Marine Resources and Ecosystem Studies (IMARES), The Netherlands.
National Institute of Aquatic Resources
Section for Ecosystem based Marine Management
Wageningen IMARES
Cefas
IFREMER
Aalborg University
COISPA Tecnologia & Ricerca
University of Tartu
Period: 01/01/2006 → 31/12/2009
Number of participants: 11
Research area: Ecosystem Based Marine Management
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Sørensen, Thomas Kirk (Intern)
Mosegaard, Henrik (Intern)
Thomsen, Kirsten (Intern)
Tomczak, Maciej (Ekstern)
Jacobsen, Jonathan Broch (Ekstern)
Project Manager, academic:
Eero, Margit (Intern)
Project