

Francois Bastardie

Date of birth: 08/05/1977

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CONTACT

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europass

ABOUT ME

Fisheries Expert – Ecosystem approach (>15y)

WORK EXPERIENCE

● **01/10/2022 – CURRENT** Copenhagen, Denmark

● **Independent Consultant in Marine Science** Alma Maris Consulting

Founder. Contractor for running Applied Reviews of ongoing Issues in Managing Fisheries

● **01/03/2018 – CURRENT** Brussels, Belgium

● **Independent Consultant in Fisheries** Advice work for European Commission EC

EU Scientific, Technical and Economic Committee (STECF) Plenary Member
Answering EC Requests for Advice in Fisheries Management

● **01/04/2007 – CURRENT** DK-2800 Kgs. Lyngby, Denmark

● **Senior Research Scientist** DTU Aqua, Technical University of Denmark

Senior Scientist, Advisor and Method Developer in the DTU Fisheries Management Strategic Research Area, including Impact Evaluation, Bio-economic analysis and Benchmarking

● **01/01/2005 – 01/03/2007** Nantes, France

● **Research Scientist** IFREMER, Unité Ecologie et Modèles pour l'Halieutique (EMH)

Model Developer of Fisheries Dynamics, Management Strategy Evaluation for Mixed and Spatial fisheries, Fisheries Stock Advice duties

EDUCATION AND TRAINING

● **01/09/2000 – 01/04/2004** Rennes, France

● **PhD in Biological Science** Université de Rennes I

- Spatial data analysis & Quantitative ecology
- Agent-based modelling & Decision-making analysis

Field of study Natural sciences, mathematics and statistics

● **01/07/1999 – 01/07/2000** Rennes, France

● **M.Sc. in Population Genetics and Eco-Ethology** Université de Rennes I

LANGUAGE SKILLS

MOTHER TONGUE(S): French

Other language(s):

English

Listening C1

Reading C1

Writing C1

Spoken production C1

Spoken interaction C1

COMMUNICATION AND INTERPERSONAL SKILLS

Consulting work in fisheries and environmental science

- EU waters focused on the North, Baltic, Celtic, Western and Eastern Mediterranean, and Black Sea. Risk and impact assessment, management strategy evaluation tools and spatial models for fisheries management toward the Ecosystem Approach to Fisheries Management, with a particular focus on developing spatial impact assessment tools that can be used to evaluate the consequences of fisheries displacement on the sustainability and economy of fisheries and marine ecosystems.
- Data analyses, model integration and dissemination work on maritime spatial planning and policy, and integrated coastal zone management. Contribution to the coordination and integration of different spatial activities in marine areas and the reduction of potential inefficient management and use of marine space following the aims and implementation of the EU Directives MSPD, Birds Directive, HD and MSFD.
- Fisheries management and bio-economic approaches within the EU CFP, scenario evaluation through simulation, dynamic coupling of fisheries-based models with ecosystem models. Document research pathways for mitigating fishing fleet impacts (fish, marine mammals, benthos) and decarbonisation pathways toward reaching environmental commitments.
- Led international projects reviewing/modelling the past and future effects of climate change on an array of EU fisheries (Baltic Sea, North Sea, NWW, SWW) with considerations on resilience/adaptation pathways; Used to run socio-ecological impact assessment arising from ecological effects or fisheries & environmental management measures, used to deal with stock assessment data and the possible practical ways to incorporate climate/environmental drivers; Involved in projects listing barriers impairing full uptake of science into the chain of advice. Experiencing these workflows from science to policy as a STECF Plenary member.

EU Scientific, Technical and Economic Committee for Fisheries (STECF) participations & reports

STECF Plenary Member since 2018

STECF EU Marketing standards

STECF EU Balance Capacity

STECF EWG Fishing Effort Regime for Demersal Fisheries in the Med.

STECF 18-05 Economic Impact of Mixed Fisheries Options

STECF EWG 16-20 Bio-economic Methodology

STECF FDI 15-08 Fisheries Dependent Data

STECF 12-04 North Sea and Kattegat scoping for mixed fisheries

STECF EWG 11-15 Multi-annual management plans

STECF SGMOS 10-03 Development of the Ecosystem Approach to Fisheries Management

International Council for the Exploration of the Sea (ICES) participation & reports

WKWIND Fisheries & Offshore Windmill farms

WKCLIMAD on pathways to climate-aware advice

WKFISHCARBON on assessing the Impact of Fishing on Oceanic Carbon

WKFISHDISH2 On Fish Distribution

WGFBIT Working Group on Fisheries Benthic Impact and Trade-offs

WGECON Working Group on Economics

WKBENTH/WKTRADE Workshop on Regional Benthic Pressure

WGSFD Working Group on Spatial Fisheries Data

WGBFAS Working Group on Baltic Fisheries Stock Assessment

WGIAB Working Group on Integrated Assessment

Advices to Regional and National Bodies

STOA, 2024, Exploring the viability of innovative fishing technologies as an alternative to bottom trawling in European marine protected areas: An environmental and socioeconomic analysis 2024. Author: Bastardie F. for STOA Panel for the Future of Science and Technology. The European Parliament, Brussels

Alma Maris Consulting - contracted by Oceana or the EEA. For example: Alma-Maris. (2023) A pathway to decarbonise the EU fisheries sector by 2050. Report produced for Oceana Europe by Alma Maris Consulting. 96 pp

HELCOM to HELCOM FISH & BENTHIC Group on ecosystem-based sustainable Fisheries, network on benthic habitat monitoring, Wks for HOLAS "State of the Baltic Sea – Second HELCOM holistic assessment 2011-2016"

Denmark - Writing Notes for the Danish Foreign Affairs and Danish Food & Environment Ministries

EU fisheries Advisory Councils (AC). Recurrent invited speaker to the North Sea AC (NSAC), Baltic Sea AC (BSAC), Pelagic AC (PELAC), and Med AC (MEDAC) on climate change & decarbonisation

Peer-Reviewed Publications (Since July 2021 only)

Bastardie, F., Salvany, L., Cooper, A. M., & Carvalho, N. (2024). A roadmap to reduce the risk of overexploiting EU marine living resources in a changing ocean. *Frontiers in Marine Science*, 11.

Vastenhoud, B. M., Bastardie, F., Andersen, K. H., Speirs, D. C., & Nielsen, J. R. (2023). Economic viability of a large vessel mesopelagic fishery under ecological uncertainty. *Frontiers in Marine Science*, 10.

Rufener, M., Nielsen, J. R., Kristensen, K., & Bastardie, F. (2023). Closing certain essential fish habitats to fishing could be a win-win for fish stocks and their fisheries – Insights from the western Baltic cod fishery. *Fisheries Research*, 268.

Sala, A., ..., Bastardie, F., ... Rijnsdorp, A. D. (2023). Technological innovations to reduce the impact of bottom gears on the seabed. *Marine Policy*, 157.

Thébaud, ... Bastardie, F... (2023). Integrating economics into fisheries science and advice: progress, needs, and future opportunities. *ICES Journal of Marine Science*

Nielsen, J.R., ... & Bastardie, F. (2023). Impacts of habitat-specific benthic fishing compared to those of short-term induced variability by environmental drivers in a turbulent Baltic Sea environment. *Fisheries Research*, 257.

Bastardie, F, et al... 2022. Ten lessons on the resilience of the EU Common Fisheries Policy towards climate change and fuel efficiency - A call for adaptive, flexible and well-informed fisheries management . *Frontiers in Marine Science*

Bastardie, F., Hornborg, S., Ziegler, F., Gislason, H., & Eigaard, O. R. (2022). Reducing the Fuel Use Intensity of Fisheries: Through Efficient Fishing Techniques and Recovered Fish Stocks. *Frontiers in Marine Science*, 9.

Bastardie, F., Brown, E. J., Andonegi, E., Arthur, R., Beukhof, E., Depestele, J., Döring, R., Eigaard, O. R., García-Barón, I., Llope, M., Mendes, H., Plet, G., & Reid, D. (2021). A Review Characterizing 25 Ecosystem Challenges to Be Addressed by an Ecosystem Approach to Fisheries Management in Europe. *Frontiers in Marine Science*, 7.

Bastardie, F., & Brown, E. J. (2021). Reverse the declining course: A risk assessment for marine and fisheries policy strategies in Europe from current knowledge synthesis. *Marine Policy*, 126, [104409].

Rufener, M-C., Kristensen, K., Nielsen, J. R., & Bastardie, F. (2021). Bridging the gap between commercial fisheries and survey data to model the spatiotemporal dynamics of marine species. *Ecological Applications*, 31(8).

Recent International (competitive) Projects

- EU CINEA Fleet Policy (Lead)
- EU Horizon 2020 SEAWise Implementation of Ecosystem-Based Fisheries Management (EBFM) in EU
- EU Horizon 2020 MEESO for Ecologically and economically sustainable mesopelagic fisheries.
- EU EASME/CINEA Climate change & the CFP (Lead)
- EU EASME Ecosystem Approach to Fisheries Management
- EU EASME Protecting bycaught species in mixed fisheries (PROBYFISH)
- Benthic ecosystem fisheries impact study (BENTHIS)
- EU/HELCOM Actions to identify effective measures to reach GES in the Baltic Sea region (ACTION)
- New methodologies for an ecosystem approach to spatial and temporal management of fisheries and aquaculture in coastal areas (ECOAST)
- Eastern-western Baltic cod: Improved management based on stock discrimination
- Socio-economic effects of management measures of the future CFP (SOCIOEC)
- Integrated management of agriculture, fishery, environment and economy – a strategic research alliance
- Development of tools for logbook and VMS data analysis
- Understanding the mechanisms of stock recovery (UNCOVER)
- Comparative evaluations of innovative solutions in European fisheries management (CEVIS)
- Operational evaluation tools for fisheries management options (EFIMAS)