



Esther Beukhof

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Degrees

BSc Biology, Wageningen University & Research (2010)

MSc Aquaculture and Marine Resource Management, Wageningen University & Research (2016)

PhD, DTU Aqua, Technical University of Denmark (2019)

Positions

PhD student, DTU Aqua, Technical University of Denmark (2016-2019)

Industry secondment, Danish Pelagic Producers Organisation (2017)

Data analyst, Pelagic Freezer-trawler Association (2018)

Researcher, Wageningen Marine Research (2019-2022)

Postdoc, DTU Aqua, Technical University of Denmark (2022-present)

Research area

Trait-based ecology of marine fish and benthos; biodiversity; large-scale observational datasets; advanced statistical modelling, including machine learning; ecological impacts of fisheries; ecosystem-based management; stock assessment; abundance indices based on survey data; recreational fisheries; Marine Strategy Framework Directive; OSPAR.

Membership of scientific committees, 2017-present

Member of ICES working groups that provide advice: WGWIDE (2019-present)

Member of ICES working groups: WGCOMEDA (2017), WGFBIT (2019-present), WGISDAA (2019-2022)

Web of Science publications: 6. Citations: 122. h-index: 6. Reports: 7.

Evaluation tasks

Reviewer of 5 scientific articles for the journals: Fish and Fisheries, Ecography, Marine Ecology Progress Series, Journal of Environmental Management, and Journal of Fish Biology.

Advisory tasks

Participation in stock assessment of blue whiting (2022)

Stock assessor of North Sea horse mackerel (2019-2021)

Provided input to data preparation workshop for benchmark of North Sea sole in WKFlatNSCS (2019)

Participated as expert STECF Expert Working Group on the assessment of balance between fleet capacity and fishing opportunities (2020-2021)

Educational tasks at academic level

Contributed to and presented at workshop on trait-environment relationships as part of EU Horizon 2020 project FutureMARES (2021).



Supervision

Co-supervisor of MSc student Jasmin Thomassen (2022) and MSc student Karoline Minna Bryndum (2022)

Collaboration with stakeholders

Participated in several national and international projects and activities that include stakeholder input, such as MARmaED, B-USEFUL, fishing industry and policy makers at the national ministry or European level.

Grants

EU Horizon 2020:

- User-oriented Solutions for Improved Monitoring and Management of Biodiversity and Ecosystem services in vulnerable European Seas (B-USEFUL) (contributor)
- Shaping Ecosystem Based Fisheries Management (SEAwise) (task lead)

Selected publications

Beukhof, E., Dencker, T. S., Pécuchet, L., & Lindegren, M. (2019). Spatio-temporal variation in marine fish traits reveals community-wide responses to environmental change. *Marine Ecology Progress Series*, 610, 205-222. <https://doi.org/10.3354/meps12826>

Beukhof, E. D., Frelat, R., Pécuchet, L., Maureaud, A., Dencker, T. S., Sólmundsson, J., Punzón, A., Primicerio, R., Hidalgo, M., Möllmann, C., & Lindegren, M. (2019). Marine fish traits follow fast-slow continuum across oceans. *Scientific Reports*, 9, [17878]. <https://doi.org/10.1038/s41598-019-53998-2>

Maureaud, A., Hodapp, D., van Denderen, P. D., Hillebrand, H., Gislason, H., Dencker, T. S., **Beukhof, E. D.**, & Lindegren, M. (2019). Biodiversity-ecosystem functioning relationships in fish communities: biomass is related to evenness and the environment, not to species richness. *Proceedings of the Royal Society B: Biological Sciences*, 286(1906), [20191189]. <https://doi.org/10.1098/rspb.2019.1189>

Dencker, T. S., Pécuchet, L., **Beukhof, E.**, Richardson, K., Payne, M. R., & Lindegren, M. (2017). Temporal and spatial differences between taxonomic and trait biodiversity in a large marine ecosystem: Causes and consequences. *P L o S One*, 12(12), [e0189731]. <https://doi.org/10.1371/journal.pone.0189731>

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., Piet, G. J., & 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, [629186]. <https://doi.org/10.3389/fmars.2020.629186>