

## Short CV – Brian R. MacKenzie

### Degrees

- PhD (Biology), McGill University, Montreal, Canada (1992).
- MSc (Biology), Dalhousie University, Halifax, Canada (1985).
- BSc (Hon.), Marine Biology, Dalhousie University, Halifax, Canada (1983).

### Positions

- Professor, DTU Aqua, Technical University of Denmark, (2011-present).
- Professor (special responsibilities, Fisheries Oceanography), DTU & Aarhus University (2007-2010).
- Senior Research Scientist, Danish Institute for Fisheries Research (DIFRES) (1998-2007).
- Research Scientist, DIFRES (1994-1998).
- Post-doctoral Scientist, DIFRES (1992-1994).

### Research area

Fish population ecology, processes and dynamics, climate change effects on marine populations and ecosystems, historical marine ecology, physical-biological interactions in the sea; marine macroecology.

### Distinctions and awards

- Danish Science Research Council Post-doctoral fellowship (1994).
- NSERC Canada Postdoctoral award (1992-1994).

### Memberships of scientific committees, 2011-present

- ICES Science Committee, Danish representative (2009-present).
- Co-chair ICES Strategic Initiative on Climate Change Impacts on Marine Ecosystems (2011-2014).
- Steering group member, Færo Islands PhD programme for climate impacts on marine ecosystems and hydrography (Færo-Greenland programme on climate impacts on pelagic ecosystems) (2013-2016).
- Member of various ICES expert groups (Recruitment in Fluctuating Environments, Spatial Analyses for the Baltic Sea, History of Fish and Fisheries).

### Review, 2011-present

- Academic Editor or editorial board member (Fisheries Oceanography 2006-present; PloS One Jan. 2012-present; Frontiers in Marine Ecosystem Ecology 2014-present).
- Reviewer for international journals (e.g., Nature Cli. Change, Proc. Roy. Soc. B, Mar. Ecol. Prog. Ser., Can. J. Fish., Aqua. Sci., ICES J. Mar. Sci., Limnol. Oceanogr.).
- Reviewer for grant proposals to international research councils (Iceland, Norway, Czech Republic).

**Peer reviewed publications: 70. Books and book chapters: 7. Reports: 29. International conferences: 4.**

### Advisory tasks, 2011-present

Leibnitz Centre for Tropical Marine Ecology at University of Bremen, Bremen, Germany, member of External Advisory Board (2008-2013).

### Educational tasks, 2011-present

- DTU courses: 25311 Fisheries Oceanography (Responsible); 25307 Fisheries Ecology and Assessment (Contributor); KU028 Applied Marine and Freshwater Ecology (Contributor).
- Lead organizer PhD summer school Modelling Baltic Biodiversity (2016).

### Supervision, 2011-present

**PhD students:** 1 (Main Supervisor); 2 (Co-supervisor). **Master students:** 1 (Main Supervisor).  
**Postdocs:** 4 (Main Supervisor).

### Grants, 2011-present

- GOFORIT COFASP (2015-2018, Overall Coordinator).
- EU-BONUS+: BIO-C3 (2014-2017, WP Leader).
- EU EP7: Euro-BASIN (2010-2014, Project PI and WP Co-leader).

### Research collaboration with stakeholders, 2011-present

Research contributions via ICES expert groups to ICES scientific and fishery adviser process.

## Five selected publications

Engelhard GH, Thurstan RH, MacKenzie BR, Alleway HK, Bannister RCA, Cardinale M, Clarke MW, Currie JC, Fortibuoni T, Holm P, Holt SJ, Mazzoldi C, Pinnegar JK, Raicevich S, Volckaert, FAM, Klein ES, Lescrauwaet, A-K. (2015). ICES meets marine historical ecology: placing the history of fish and fisheries in current policy context. *ICES J. Mar. Sci.* (in press). doi:10.1093/icesjms/fsv219. (editor's choice).

Payne MR, Barange M, Cheung WW L, MacKenzie BR, Batchelder HP, Cormon X, Eddy TD, Fernandes, JA, Hollowed AB, Jones MC, Link, JS, Neubauer P, Ortiz I, Queirós AM, Paula JR. (2015). Uncertainties in projecting climate change impacts in marine ecosystems. *ICES J. Mar. Sci.* (in press) doi:10.1093/icesjms/fsv231.

MacKenzie BR, Payne M, Boje J, Højer JL, Siegstad H. (2014). A cascade of warming impacts brings bluefin tuna to Greenland waters. *Global Change Biology* 20, 2484–2491, doi: 10.1111/gcb.12597 (OA via Zonodo).

Neuheimer AB, MacKenzie BR. (2014). Explaining life history variation in a changing climate across a species' range. *Ecology* 95, 3364-3375. <http://dx.doi.org/10.1890/13-2370.1>.

MacKenzie BR, Meier HEM, Lindegren M, Neuenfeldt S, Eero M, Blenckner T, Tomczak M, Niiranen S. (2012). Impact of climate change on fish population dynamics in the Baltic Sea – a dynamical downscaling investigation. *Ambio* 41, 626-646; doi: 10.1007/s13280-012-0325-y.