

Short CV – Torkel Gissel Nielsen

Degrees

- Dr Scient, University of Copenhagen, Denmark (2005).
- PhD (Biological oceanography), Marine Biological Laboratory, University of Copenhagen, Denmark (1990).
- MSc (Brackish water ecology), Freshwater Biological Laboratory, University of Copenhagen, Denmark (1987).

Positions

- Professor, DTU Aqua, Technical University of Denmark (2009-present).
- Head of Section for Climate and Oceanography, DTU Aqua (2012-2014).
- Research Professor, Department for Marine Ecology, National Environmental Research Institute, Denmark (1999-2009).
- Senior Scientist, Department for Marine Ecology, National Environmental Research Institute, Denmark (1994-1999).
- Scientist, Department for Marine Ecology, National Environmental Research Institute, Denmark (1991-1994).
- Fisheries Biologists, Danish Institute for Fisheries and Marine Research (DIFMAR) (1990-1991).

Research area

Experimental plankton ecology, regulation of structure and composition of pelagic food web. Impact of climate change and oil exploration on food web composition and energy transfer.

Distinctions and awards

Adjunct Professor, Biological Institute, University of Southern Denmark (2006-2011).

Memberships of scientific committees, 2011-present

- Member of ASLO (since 1994).
- Subject editor for Marine Biological Research (since 2005).

Review, 2011-present

- Reviewer for >10 international journals.
- Chair/member for evaluation committees for national and international scientist/senior scientist/professor positions.
- Chair/member of Norwegian and Finish Research Council Evaluation Board.

ISI journal publications: 144 **Other peer reviewed publications:** 0. **Books:** 0. **Book chapters:** 0. **Citations:** 4187.

H-index: 36. **Reports:** 0.

International conferences - Contributions as first author: ca. 10. **Invited:** 3. **Organizing role:** 0.

Peer reviewed publications: 144. **International conferences:** ca. 10.

Advisory tasks, 2011-present

Director of Danish National Council for Oceanography (since 2005).

Educational tasks, 2011-present

DTU course: 25310 Biological Oceanography (Responsible).

Supervision, 2011-present

PhD students: 8 (Main Supervisor); 1 (Co-supervisor). **Master students:** 15 (Main Supervisor).

Postdocs: 2 (Main Supervisor).

Grants, 2011-present

- Greenland Climate Research Center: Arctic Plankton Dynamic (2009-2014, PI).
- Carlsberg Foundation: Springtime in the Disko Bay (2010-2011, PI).
- Basin-scale Analysis, Synthesis, and Integration of oceanographic and climate-related processes and the dynamics of plankton and fish populations in the North Atlantic Ocean (EUR-BASIN-PI) (2011-2015, WP Leader)
- Carlsberg Foundation: Cannibalism in Arctic copepods (2011-2012, PI)
- Arctic Oil Spill Response Technology Joint Industry Programme (2012-2016, PI)
- Norwegian Research Council: Effects of dispersed oil droplets and produced water components on growth, development and reproduction in Arctic pelagic copepods (2015-2019, PI).

Other activities

- Supervised 4 bachelor students.
- Chief scientist on the Danish expedition Galathea - Leg 7 from Cape Town to Perth in Australia.
- The DTU Leadership program passed 2014.

Five selected publications

Hansen MO*, Nielsen TG, Stedmon C, Munk P. (2012). Oceanographic regime shift during 1997 in Disko Bay, Western Greenland . *Limnol. Oceanogr.*, 57(2), 634-644.

Grenvald JC*, Nielsen TG, Hjorth M. (2013). Effects of oil exposure and temperature on early development of two co-existing Arctic copepods. *Ecotoxicology* 22, 184-198.

Nielsen TG, Kjellerup S, Smolina I, Hoarau G, Lindeque P. (2014). Live discrimination of *Calanus glacialis* and *C. finmarchicus* females – can we trust our experimentally determined phenological differences? *Mar Biol* 161.1,299-1306.

Jung-Madsen S*, Nielsen TG. (2015). Early development of *Calanus glacialis* and *C. finmarchicus*. *Limnol. Oceanogr.* 60(3), 934-946.

Glud RN, Grossart H-P, Larsen M, Tang KW, Arendt KE, Rysgaard S, Thamdrup B, Nielsen TG. (2015). Copepod carcasses as microbial hot spots for pelagic denitrification *Limnol Oceanogr.* 60(6) 2026-2036.

* first authored by students supervised by me