

Short CV – André William Visser

Degrees

- Doctor Technices, Technical University of Denmark (2011).
- PhD (Coastal Oceanography), State University of New York at Stony Brook, USA (1989).
- MSc (Physics), Victoria University of Wellington, New Zealand (1983).

Positions

- Professor of Physical Oceanography, DTU Aqua, Technical University of Denmark (2011-present).
- Senior Scientist, Danish Institute for Fisheries Research (DIFRES) (1995-2011).
- Universitair Docent, Utrecht University, Netherlands (1991-1995).
- Associate Professor, Universidad Autonoma de Baja Calafornia, Ensenada, Mexico (1989-1991).

Research area

The dynamics of shelf seas including wind, tidal and buoyancy driven circulation. Ocean turbulence, particularly its effect on biological processes. The small-scale bio-physics of marine plankton and its implications on behavioral and evolutionary ecology of marine systems. The physical oceanography of high latitude seas. Trait-based approach to marine ecosystem modelling.

Distinctions and awards

New York Sea Grant Scholar (1984), DFF Sabbatical stipend (2004).

Memberships of scientific committees, 2011-present

Editorial Board: Limnology and Oceanography: Fluids and Environment Diversity Committee, ASLO.

Review, 2011-present

International reviewer for research programmes including NSF (USA), NERC (UK).

Reviewer for international journals including Science, PNAS, Progress in Oceanography, Limnology and Oceanography, MEPS, Journal of Plankton Research, Deep Sea Research.

Peer reviewed publications: 66. **Books and book chapters:** 6. **Reports:** 13. **International conferences:** 30.

Advisory tasks, 2011-present

Contributor to the Polar Dialog Forum, Danish Ministry of Science Innovation and Higher Education.

Educational tasks, 2011-present

- DTU courses: 25302 Physical Oceanography (Responsible), 25410 Biological Oceanography (Contributor), 25325 Aquatic Ecology and Climate Change (Responsible), 25104 An Introduction to Ocean Science and Technology (Responsible), 25102 Oceanography (Contributor).
- Pedagogical Coordinator, DTU Aqua (2011-present).

Supervision, 2011-present

PhD students: 4 (Main Supervisor); 2 (Co-Supervisor). **Master students:** 5 (Main Supervisor).

Postdocs: 2 (Main Supervisor).

Grants, 2011-present

- Greenland Climate Research Center: Physical oceanography in Greenland waters in climate change (2010-2014, Coordinator).
- Strategic Research Council: North Atlantic-Arctic coupling in a changing climate (NAACOS) (2011-2015, Coordinator).
- FP7-IP: Basin-scale Analysis, Synthesis & Integration (Euro-Basins) (2011-2014, PI).
- Nordforsk: Nordic Centre for Marine Ecosystems and Resources under Climate Change (NorMER) (2011-2015, PI).
- VKR Centre of Excellence; Centre for Ocean Life (2012-2017, PI).
- H2020 Blue Growth (grant 633098): UTOFIA (2015-2018, PI, WP Leader).

Research collaboration with stakeholders, 2011-present

Responsible for dissemination and exploitation activities for H2020 Blue Growth project UTOFIA.

Five selected publications

Hansen AN, Visser AW. (2016). Carbon export by vertically migrating zooplankton: an adaptive behavior model. *Limnology and Oceanography*. 10.1002/lno.10249

Jónasdóttir SH, Visser AW, Richardson K, Heath MR. (2015). Seasonal copepod lipid pump promotes carbon sequestration in the deep North Atlantic. *Proceedings of the National Academy Sciences*. 10.1073/pnas.1512110112.

Visser AW, Fiksen Ø. (2013). Optimal foraging in marine ecosystem models: selectivity, profitability and switching. *Marine Ecology Progress Series*. 473, 91-101.

Visser AW. (2007). Biomixing of the oceans? *Science*. 316, 838–839. 10.1126/science.1141272

Visser AW, Kiørboe T. (2006). Plankton motility patterns and encounter rates. *Oecologia*. 148, 539–546. 10.1007/s00442-006-0385-4