DTU Aqua
National Institute of Aquatic Resources

André William Visser – Short CV

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Degrees

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

Positions

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

Research area

The dynamics of shelf seas. Ocean turbulence, effect on biological processes. The small-scale bio-physics. The physical oceanography of high latitude seas. Trait-based modelling approach to marine ecology. Ocean biological carbon pump including aggregation processesa and vertical migration.

Distinctions and awards

- 1980 First Class Honours in Physics, Victoria University of Wellington.
- 1983 Master of Science with Distinction in Physics, Victoria University of Wellington.
- 1984 New York Sea Grant Scholar, MSRC, SUNY, Stony Brook, New York.

Memberships of scientific committees (last 5 years)

- ICES WKFISHCARBON

Publications

Type of publication:	**Number**
Web of Science publications:	**92**
Citations:	**6630**
h-index:	***44***
Other peer review publications:	
Books:	**1**
Book chapters:	**5**
Reports:	**14**

International conferences (last 5 years)

Type of participation:	**Number**
Contributions as first author:	4
Invited:	2
Organizing role:	1

Evaluation tasks and reviews (last 5 years)

- Norwegian Research Council; Evaluation committee Scientific Basis of the TLS for Norwegian Salmonid Aquaculture.
- Chair of 4 PhD Evaluation committees
- Chair of 3 Professor Evaluation committes

Advisory tasks (last 5 years)

Educational tasks at academical level (last 5 years)

- Course responsible for 4 courses, contributor to 2 others, diverse special courses.
- Pedagogical Coordinator, DTU Aqua (2011-present),
- Chairman DTU Aqua Study Board (2018-2020),
- Study leader MSc education in Ocean Engineering, DTU (2020 – 2025)

Supervision (ongoing or finished in the last 5 years)

	Principal/main supervisor	Co-supervisor
Other (MSc etc.)	8	
PhD:	2	5
Postdoc:	1	N/A

Innovation activities (last 5 years)

	Number
Patents:	**0**

- Development of open source computer code for a variety of applications including particle aggregation, trait-based modelling, transport matrix ocean simulations.

Collaboration with other stakeholders (within last 5 years)

- Address to INTERNATIONAL COLDWATER PRAWN FORUM.

Grants (competitive) (ongoing or finished within last 5 years)

- VKR Centre of Excellence; Centre for Ocean Life (2018-2022; PI)
- H2020 ECOTIP (2020-2023; WP leader and PI)
- Gordon and Betty Moore Foundation: Mechanistic Approach to Plankton Ecology (2017-2021 PI)
- Smed fond: Fochhammer History (2021 – 2022 Coordinator)
- Simons Foundation (2022-2026 PI) Ocean Systems Ecology
- COPS: Dynamics of Calanus species linked to Oceanographic processes, Predators and carbon Sequestration (PI 2021-2024)
- BlueOcean: Blue whiting recruitment, distribution and Ocean-climate processes in the north Atlantic Ridge area (PI 2021-2024)
- Horizon Europe OceanICU (2023-2028, PI)
- Horizon Europe BioEcoOcean (2024-2028; WP leader and PI)
- Horizon Europe SEA-Quester (2024-2028; WP leader and PI)

Selected publications

- Cavan EL, Mackay N, Hill SL, Atkinson A, Belcher A, **Visser AW** (2024). Antarctic krill sequester similar amounts of carbon to key coastal blue carbon habitats. *Nature Communications*. 8;15(1):7842.
- Pinti J, Jonasdottir SH, Record N, **Visser AW**. (2023). The global contribution of seasonally migrating copepods to the biological carbon pump. *Limnology and Oceanography*.
- Pinti J, DeVries T, Norin T, Serra-Pompei C, Proud R, Siegel DA, Kiørboe T, Petrik CM, Andersen, KH, Brierley AS, **Visser AW**. (2023). Model estimates of metazoans' contributions to the biological carbon pump. *Biogeosciences*. 10.5194/egusphere-2022-1227
- Andersen KH, **Visser AW**. (2023) From cell size and first principles to structure and function of unicellular plankton communities. *Progress in Oceanography*.
- Pinti J, Andersen KH, **Visser AW**. 2021. Co-adaptive behavior of interacting populations in a habitat selection game significantly impacts ecosystem functions. *Journal of Theoretical Biology*, *523*, p.110663.