Andre Visser - DTU Orbit (25/02/2018)

Visser, Andre
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National Institute of Aquatic Resources - Professor
Section for Oceans and Arctic

Publications:

Calanus hyperboreus and the lipid pump
Publication: Research - peer-review › Journal article – Annual report year: 2017

Connectivity and Dispersal of Salmon Lice in a Tidal Energetic Island System: Faroe Islands
Kragsteen, T. J., Simonsen, K., Visser, A. & Andersen, K. H. 2017
Publication: Research › Conference abstract for conference – Annual report year: 2017

Dynamics of phytoplankton blooms in turbulent vortex cells
Publication: Research - peer-review › Journal article – Annual report year: 2017

Effect of exposure on salmon lice Lepeophtheirus salmonis population dynamics in Faroese salmon farms
Patursson, E. J., Simonsen, K., Visser, A. & Patursson, Ø. 2017 In : Aquaculture Environment Interactions. 9, 1, p. 33-43
Publication: Research - peer-review › Journal article – Annual report year: 2017

Effects of high-frequency strobed laser light on Atlantic cod (Gadus morhua) physiology and behavior
Publication: Research › Conference abstract for conference – Annual report year: 2017

Identifying salmon lice transmission characteristics between Faroese salmon farms
Publication: Research - peer-review › Journal article – Annual report year: 2017

Seasonal succession in zooplankton feeding traits reveals trophic trait coupling
Kenitz, K., Visser, A., Mariani, P. & Andersen, K. H. 2017 In : Limnology and Oceanography. 62, 3, p. 1184-1197
Publication: Research - peer-review › Journal article – Annual report year: 2017

Seasonal succession in zooplankton feeding traits reveals trophic trait coupling
Kenitz, K., Visser, A., Mariani, P. & Andersen, K. H. 2017
Publication: Research › Conference abstract for conference – Annual report year: 2017

Adult lifetime reproductive value in fish depends on size and fecundity type
Tsoukali, S., Olsson, K. H., Visser, A. W. & MacKenzie, B. R. 2016 In : Canadian Journal of Fisheries and Aquatic Sciences. 73, 9, p. 1405-1412
Publication: Research - peer-review › Journal article – Annual report year: 2016

Carbon export by vertically migrating zooplankton: Optimal vertical migration and carbon export
Hansen, A. N. & Visser, A. W. 2016 In : Limnology and Oceanography. 61, 2, p. 701-710
Publication: Research - peer-review › Journal article – Annual report year: 2016

Characteristic sizes of life in the oceans - from bacteria to whales
Functional responses of North Atlantic fish eggs to increasing temperature
Tsoukali, S., Visser, A. & MacKenzie, B. 2016 In : Marine Ecology Progress Series. 555, p. 151-165

UTOFIA: Time-of-Flight camera for underwater applications
Visser, A. 2016

Advective loss of overwintering Calanus finmarchicus from the Faroe-Shetland Channel

An effective algorithm for approximating adaptive behavior in seasonal environments

A new compact, cost-efficient concept for underwater range-gated imaging: the UTOFIA project
Quincoces, I., Galparsoro, I., Bald, J., Gabina, G., Visser, A., Mariani, P. & Jonasdottir, S. 2015

A time for every season: seasonal cycles of plankton and fish

Deep water overflow in the Faroe Bank Channel; modelling, processes, and impact

Fisheries oceanography of northern pelagic fish species

Functional responses of North Atlantic fish eggs to increasing temperature
Tsoukali, S., Visser, A. & MacKenzie, B. 2015

Modelling emergent trophic strategies in plankton

Oceanography and the base of the pelagic food web in the southern Indian Ocean

Predicting future shifts in herring spawning habitat in the North Sea
Tsoukali, S., Christensen, A., Tian, T., Visser, A. & MacKenzie, B. 2015
Seasonal copepod lipid pump promotes carbon sequestration in the deep North Atlantic
Publication: Research - peer-review › Journal article – Annual report year: 2015

Size structures sensory hierarchy in ocean life
Publication: Research - peer-review › Journal article – Annual report year: 2015

Synoptic-scale analysis of mechanisms driving surface chlorophyll dynamics in the North Atlantic
Publication: Research - peer-review › Journal article – Annual report year: 2015

Accuracy and precision in the calculation of phenology metrics
Publication: Research - peer-review › Journal article – Annual report year: 2015

Analysis of self-overlap reveals trade-offs in plankton swimming trajectories
Publication: Research - peer-review › Journal article – Annual report year: 2014

Capital versus income breeding in a seasonal environment
Publication: Research - peer-review › Journal article – Annual report year: 2014

From fish to phytoplankton
Publication: Research › Conference abstract for conference – Annual report year: 2014

Phytoplankton bloom and subpolar gyre induced dynamics in the North Atlantic
Publication: Research › Conference abstract for conference – Annual report year: 2014

The Biological carbon pump in the North Atlantic
Publication: Research - peer-review › Journal article – Annual report year: 2014

Behavioral traits and their trade-off in the plankton
Visser, A. 2013
Publication: Research › Conference abstract for conference – Annual report year: 2013
Characteristic sizes of life in the oceans - from bacteria to whales
Publication: Research › Conference abstract for conference – Annual report year: 2013

Control of plankton seasonal succession by adaptive grazing
Mariani, P., Andersen, K. H., Visser, A., Barton, A. D. & Kiørboe, T. 2013 In : Limnology and Oceanography. 58, 1, p. 173-184
Publication: Research - peer-review › Journal article – Annual report year: 2012

Diel vertical migration arising in a habitat selection game
Publication: Research - peer-review › Journal article – Annual report year: 2012

Estimating phytoplankton phenology metrics from noisy, gappy data
Publication: Research › Poster – Annual report year: 2013

Feeding season duration and the relative success of capital and income spawning copepods
Sainmont, J., Varpe, Ø., Andersen, K. H. & Visser, A. 2013
Publication: Research › Conference abstract for conference – Annual report year: 2013

From phytoplankton to fish
Publication: Research › Conference abstract for conference – Annual report year: 2014

Optimal foraging and diel vertical migration in a life history model
Sainmont, J., Andersen, K. H. & Visser, A. 2013
Publication: Research › Poster – Annual report year: 2013

Optimal foraging in marine ecosystem models: selectivity, profitability and switching
Visser, A. W. & Fiksen, Ø. 2013 In : Marine Ecology Progress Series. 473, p. 91-101
Publication: Research - peer-review › Journal article – Annual report year: 2013

Trait-based plankton trophic interactions and community composition in a global ocean ecosystem model
Prowe, F., Andersen, K. H., Kiørboe, T. & Visser, A. 2013
Publication: Research › Conference abstract for conference – Annual report year: 2013

Zooplankton feeding traits and community composition in a global ecosystem model
Prowe, F., Andersen, K. H., Kiørboe, T. & Visser, A. 2013
Publication: Research › Conference abstract for conference – Annual report year: 2013

Adaptive behaviour, tri-trophic food-web stability and damping of chaos
Publication: Research - peer-review › Journal article – Annual report year: 2011

How the Subpolar gyre strength influences phytoplankton blooms dynamics in the North Atlantic
Publication: Research › Paper – Annual report year: 2012
Subpolar gyre strength influences phytoplankton bloom dynamics
Publication: Research › Conference abstract for conference – Annual report year: 2012

Weak subpolar Gyre lead to early blooms
Publication: Research › Conference abstract for conference – Annual report year: 2012

Phytoplankton spring bloom influence on larval and juvenile fish survival
Publication: Research › Conference abstract for conference – Annual report year: 2011

Small, wet & rational: Individual based zooplankton ecology
Publication: Research › Doctoral thesis – Annual report year: 2011

Optimization and emergence in marine ecosystem models
Mariani, P. & Visser, A. 2010 In : Progress in Oceanography. 84, 1-2, p. 89-92
Publication: Research - peer-review › Journal article – Annual report year: 2010

Assessing the role of food quality in the production and hatching of Temora longicornis eggs
Jonasdottir, S., Visser, A. & Jespersen, C. 2009 In : Marine Ecology Progress Series. 382, p. 139-150
Publication: Research - peer-review › Journal article – Annual report year: 2009

Ecosystem productivity: From: DTU Climate Change Technologies
Publication: Research › Report – Annual report year: 2009

Evolutionens matematik
Publication: Education - peer-review › Book chapter – Annual report year: 2009

Optimal behaviour and dynamical impact in a plankton predator-prey system
Mariani, P., Kiørboe, T., Visser, A. & Andersen, K. H. 2009
Publication: Research › Conference abstract for conference – Annual report year: 2009

Preferential concentration of plankton by turbulence; a critical examination of mechanisms
Visser, A. 2009
Publication: Research › Conference abstract for conference – Annual report year: 2009

Significance of swimming and feeding currents for nutrient uptake in osmotrophic and interception feeding flagellates
Langlois, V., Andersen, A. P., Bohr, T., Visser, A. & Kiørboe, T. 2009 In : Aquatic Microbial Ecology. 54, 1, p. 35-44
Publication: Research - peer-review › Journal article – Annual report year: 2009

Swimming in turbulence: zooplankton fitness in terms of foraging efficiency and predation risk
Visser, A., Mariani, P. & Pigolotti, S. 2009 In : Journal of Plankton Research. 31, 2, p. 121-133
Publication: Research - peer-review › Journal article – Annual report year: 2009

Vandløppernes vækst i forhold til fødekvaliteten
Jonasdottir, S., Visser, A. & Jespersen, C. 2009
Publication: Research › Conference abstract for conference – Annual report year: 2009
Lagrangian modelling of plankton motion: From deceptively simple random walks to Fokker-Planck and back again
Visser, A. 2008 In : Journal of Marine Systems. 70, 3-4, p. 287-299
Publication: Research - peer-review › Journal article – Annual report year: 2008

Biomixing of the oceans?
Visser, A. 2007 In : Science. 316, 5826, p. 838-839
Publication: Research - peer-review › Journal article – Annual report year: 2007

Grazing effects of blue mussel Mytilus edulis on the pelagic food web under different turbulence conditions
Maar, M., Nielsen, T. G., Bolding, K., Burchard, H. & Visser, A. 2007 In : Marine Ecology - Progress Series. 339, p. 199-213
Publication: Research - peer-review › Journal article – Annual report year: 2007

Individual based model of cod larvae feeding behavior: Interaction with turbulence and search shape
MacKenzie, B., Mariani, P. & Visser, A. 2007
Publication: Research › Conference abstract for conference – Annual report year: 2007

Individual-based simulations of larval fish feeding in turbulent environments
Mariani, P., MacKenzie, B., Visser, A. & Botte, V. 2007 In : Marine Ecology - Progress Series. 347, p. 155-169
Publication: Research - peer-review › Journal article – Annual report year: 2007

Klimaændringer og Dogger banke
Publication: Research › Conference abstract in proceedings – Annual report year: 2007

Mixing it up with krill - response
Visser, A. 2007 In : Science. 318, 5854, p. 1239-1239
Publication: Research - peer-review › Journal article – Annual report year: 2007

Motility of zooplankton: fitness, foraging and predation
Publication: Research - peer-review › Journal article – Annual report year: 2007

Nye optiske instrumenter ved Danmarks Fiskeriundersøgelser
Publication: Research › Conference abstract in proceedings – Annual report year: 2007

The fate of discarded appendicularian houses: degradation by the copepod, Microsetella norwegica, and other agents
Publication: Research - peer-review › Journal article – Annual report year: 2007

Plankton motility patterns and encounter rates
Publication: Research - peer-review › Journal article – Annual report year: 2006

Turbulence and feeding behaviour affect the vertical distributions of Oithona similis and Microsetella norwegica
Maar, M., Visser, A., Nielsen, T. G., Stips, A. & Saito, H. 2006 In : Marine Ecology - Progress Series. 313, p. 157-172
Publication: Research - peer-review › Journal article – Annual report year: 2006

Vejret og vandmiljøet
Publication: Research › Book chapter – Annual report year: 2006
Effects of prey motility and concentration on feeding in Acartia tonsa and Temora longicornis: the importance of feeding modes
Publication: Research - peer-review › Journal article – Annual report year: 2005

Vertikal fordeling af vandlopper i forhold til føde og turbulens
Maar, M., Visser, A., Nielsen, T. G. & Stips, A. 2005
Publication: Research › Poster – Annual report year: 2005

Characteristics of the chemical plume behind a sinking particle in a turbulent water column
Visser, A. & Jackson, G. 2004 In: Marine Ecology - Progress Series. 283, p. 55-71
Publication: Research - peer-review › Journal article – Annual report year: 2004

Escape responses of copepod nauplii in the flow field of the blue mussel, Mytilus edulis
Publication: Research - peer-review › Journal article – Annual report year: 2003

Microscale distribution of zooplankton in relation to turbulent diffusion
Maar, M., Nielsen, T. G., Stips, A. & Visser, A. 2003 In: Limnology and Oceanography. 48, 3, p. 1312-1325
Publication: Research - peer-review › Journal article – Annual report year: 2003

Random motility of plankton: diffusive and aggregative contributions
Publication: Research - peer-review › Journal article – Annual report year: 2003

Turbulence and zooplankton production: insights from PROVESS
Visser, A. & Stips, A. 2002 In: Journal of Sea Research. 47, 3-4, p. 317-329
Publication: Research - peer-review › Journal article – Annual report year: 2002

Udvalget om Miljøpåvirkninger og fiskeriressourcer: Delrapport vedr. klimaændringer
Publication: Research › Report – Annual report year: 2002

Det turbulente liv i havet
Visser, A. 2001 In: Fisk og Hav. 52, p. 10-17
Publication: Research › Journal article – Annual report year: 2001

Fisheries and climate change: the danish perspective
Publication: Research - peer-review › Book chapter – Annual report year: 2001

Hydromechanical signals and turbulent noise
Visser, A. & Kiørboe, T. 2001
Publication: Research › Conference abstract for conference – Annual report year: 2001

Hydromechanical signals in the plankton
Visser, A. 2001 In: Marine Ecology - Progress Series. 222, p. 1-24
Publication: Research - peer-review › Journal article – Annual report year: 2001

Klimaændringer og mulige effekter på dyre- og plantelivet i danske farvande
Observations of copepod feeding and vertical distribution under natural turbulent conditions in the North Sea

Phaeosysitis globosa (Prymnesiophyceae) and the planktonic food web: Feeding, growth, and trophic interactions among grazers
Tang, K. W., Jakobsen, H. H. & Visser, A. 2001 In : Limnology and Oceanography. 46, 8, p. 1860-1870

The influence of tidal straining and wind on suspended matter and phytoplankton distribution in the Rhine outflow region

Modelling the attack success of planktonic predators: patterns and mechanisms of prey size selectivity

On the reorientation of non-spherical prey particles in a feeding current

Subsurface phytoplankton blooms fuel pelagic production in the North Sea
Richardson, K., Visser, A. & Pedersen, F. 2000 In : Journal of Plankton Research. 22, 9, p. 1663-1671

Buoyancy control of Calanus finmarchicus
Jonasdottir, S. & Visser, A. 1999 In : TASC Newsletter. 12, p. 5-6

Hydrodynamic signal perception in the copepod Acartia tonsa
Kiørboe, T., Saiz, E. & Visser, A. 1999 In : Marine Ecology - Progress Series. 179, p. 97-111

Lipids, buoyancy and the seasonal vertical migration of Calanus finmarchicus
Visser, A. & Jonasdottir, S. 1999 In : Fisheries Oceanography. 8, p. 100-106

Predator and prey perception in copepods due to hydromechanical signals
Kiørboe, T. & Visser, A. 1999 In : Marine Ecology - Progress Series. 179, p. 81-95

Environmental variability along the drift track of larval haddock in the east Shetland Atlantic inflow

Intensive aggregate formation with low vertical flux during an upwelling-induced diatom bloom

Predation vulnerability of planktonic copepods: consequences of predator foraging strategies and prey sensory abilities
Viitasalo, M., Kiørboe, T., Flinkman, J., Pedersen, L. W. & Visser, A. 1998 In : Marine Ecology - Progress Series. 175, p. 129-142
Role of diatoms in copepod production: good, harmless or toxic?
Publication: Research - peer-review › Journal article – Annual report year: 1998

Turbulence-induced contact rates of plankton: the question of scale
Publication: Research - peer-review › Journal article – Annual report year: 1998

The Rhine outflow: a prototypical pulsed discharge plume in a high energy shallow sea
Publication: Research - peer-review › Journal article – Annual report year: 1997

Using random walk models to simulate the vertical distribution of particles in a turbulent water column
Visser, A. 1997 In: Marine Ecology - Progress Series. 158, p. 275-281
Publication: Research - peer-review › Journal article – Annual report year: 1997

Shear dispersion in a wind and density driven plume
Publication: Research - peer-review › Book chapter – Annual report year: 1996

The use of models in eutrophication studies
Publication: Research - peer-review › Book chapter – Annual report year: 1996

On tidal rectification, friction and geostrophic degeneracy
Publication: Research - peer-review › Journal article – Annual report year: 1994

The effect of stratification on tidal current profiles in a region of freshwater influence
Publication: Research - peer-review › Journal article – Annual report year: 1994

The Rose Spit Eddy in Dixon Entrance: Evidence for its existence and underlying dynamics
Publication: Research - peer-review › Journal article – Annual report year: 1992

Lagrangian tidal stress and basin-wide residual eddy dynamics in wide coastal sea straits
Visser, A. & Bowman, M. J. 1991 In: Geophysical and Astrophysical Fluid Dynamics. 59, p. 113-145
Publication: Research - peer-review › Journal article – Annual report year: 1991

Dynamics of tidally forced basin-wide coastal eddies
Publication: Research - peer-review › Book chapter – Annual report year: 1990

Experiences with the Brillinger spectral estimator applied to simulated irregularly observed processes
Publication: Research - peer-review › Journal article – Annual report year: 1987
Projects:

**Trait-based modelling of copepod communities**
Serra Pompei, M. C., Andersen, K. H., Kiørboe, T. & Visser, A.
01/10/2017 → 30/09/2020
Project: PhD

**Vertical migration and the structure and function of pelagic ecosystems**
Pinti, J. P. A., Visser, A., Kiørboe, T. & Mariani, P.
01/10/2017 → 30/09/2020
Project: PhD

**Mechanistic approach to ocean ecology (39427)**
Kiørboe, T., Andersen, K. H., Visser, A. & Chakraborty, S.
01/01/2017 → 30/06/2020
Project

**Reduktion af lakseinfektioner**
Kragesteen, T. J., Andersen, K. H., Simonsen, K. & Visser, A.
01/09/2016 → 31/08/2019
Project: PhD

**Reconfigurable Modular Robotic System for Aquatic Environment**
Galeazzi, R., Christensen, D. J., Mariani, P., Visser, A., Özkil, A. G. & Nielsen, U. D.
01/02/2016 → 31/01/2018
Project

**Collaborative modular underwater robotic system for long-term autonomous operations (REMORA) (39341)**
Mariani, P. & Visser, A.
21/12/2015 → 21/12/2017
Project

**Benefits, cost, and trade-off of defense mechanisms in marine phytoplankton**
Pancic, M., Kiørboe, T. & Visser, A.
01/11/2015 → 28/01/2019
Project: PhD

**Underwater time of flight image acquisition system (UTOFIA) (39240)**
Visser, A., Mariani, P., Jonasdottir, S., Stage, B., Bridda, J., Thøgersen, T. L. & Behrens, J.
01/02/2015 → 30/04/2018
Project

**Trait Ecology of Plankton in a Changing Marine Environment**
Hansen, A. N., Visser, A. & Andersen, K. H.
15/12/2014 → 10/10/2018
Project: PhD

**PhD Scholarship in Physical Oceanography**
Rullyanto, A., Visser, A., Petersen, O. S., Sørensen, J. V. T., Mariani, P., Burchard, H. & Sharples, J.
15/03/2012 → 30/09/2015
Project: PhD

**Center for Ocean Life (COOL) - a Villum-Kahn Rasmussen Centre of excellence for the study of life in a changing ocean (38960)**
Fisheries Oceanography of Northern Pelagic Fish Populations
Tsoukali, S., MacKenzie, B., Visser, A., Nielsen, T. G., Folkvord, A. & Miller, T. J.
15/12/2011 → 02/09/2015
Project: PhD

PhD Scholarship in Marine Ecology and Climate
15/09/2011 → 01/04/2015
Project: PhD

Climate change on marine ecosystems and resource economics (NorMER) (38898)
01/01/2011 → 31/12/2015
Project

North Atlantic - Arctic coupling in a changing climate: Impacts on ocean circulation, carbon cycling and sea-ice (NAACOS) (38888)
Visser, A., Stedmon, C., Koski, M., Mariani, P., Christensen, A. & Jonasdottir, S.
01/01/2011 → 31/12/2014
Project

Modelling the competition between two closely-related copepod species in Arctic under climate change
Sainmont, J., Visser, A., Andersen, K. H., Mariani, P., Aksnes, D. L. & Banas, N. S.
01/12/2010 → 07/05/2014
Project: PhD

European basin-scale analysis, synthesis and integration (EURO-BASIN) (38899)
01/01/2010 → 31/12/2014
Project

Physical oceanography in Greenland waters under climate change (38767)
Visser, A. & Koski, M.
01/01/2010 → 31/12/2014
Project

Activities:

ICES - Working Group on Oceanic Hydrography - WGOH (External organisation)
Visser, A. (Participant)
2012 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar