Andre Visser - DTU Orbit (23/12/2017)
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**
Kragesteen, 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**
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

Phytoplankton bloom and subpolar gyre induced dynamics in the North Atlantic
Publication: Research › Poster – 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

Vandloppernes 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. & Kørboe, 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

Phaeocystis 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 → 28/12/2018
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