Ken Haste Andersen - DTU Orbit (05/02/2018)

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Publications:

Adaptive Feeding behavior and functional responses in pelagic copepods
Publication: Research - peer-review › Journal article – Annual report year: 2018

Implications of late-in-life density-dependent growth for fishery size-at-entry leading to maximum sustainable yield
Publication: Research - peer-review › Journal article – Annual report year: 2018

Analysis of trait-based models in marine ecosystems.
Publication: Research › Ph.D. thesis – Annual report year: 2017

Challenges to fisheries management due to stock recovery
Publication: Research › Conference abstract for conference – Annual report year: 2017

Connectivity and Dispersal of Salmon Lice in a Tidal Energetic Island System: Faroe Islands
Publication: Research › Conference abstract for conference – Annual report year: 2017

Efficiency of fisheries is increasing at the ecosystem level
Publication: Research - peer-review › Journal article – Annual report year: 2016

Estimating uncertainty of data limited stock assessments
Publication: Research - peer-review › Journal article – Annual report year: 2016

Evolution of boldness and life-history in response to selective harvesting
Publication: Research - peer-review › Journal article – Annual report year: 2017

Fish and Fisheries: The size - and trait - based approach
Publication: Research › Doctoral thesis – Annual report year: 2018

Fish growth in pelagic and benthic food webs across marine ecosystems
Publication: Research › Poster – Annual report year: 2017

Food-web dynamics under climate change
Publication: Research - peer-review › Journal article – Annual report year: 2017

Global patterns in marine predatory fish
Publication: Research - peer-review › Journal article – Annual report year: 2017
Global patterns in the productivity of marine fish along parallel pathways of energy
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

Modeling succession of key resource-harvesting traits of mixotrophic plankton
Publication: Research - peer-review › Journal article – Annual report year: 2016

Seasonal succession in zooplankton feeding traits reveals trophic trait coupling
Publication: Research - peer-review › Journal article – Annual report year: 2017

Seasonal succession in zooplankton feeding traits reveals trophic trait coupling
Publication: Research › Conference abstract for conference – Annual report year: 2017

Trait-based model of mixotrophy in plankton
Publication: Research › Conference abstract for conference – Annual report year: 2017

Trophic impact of Atlantic bluefin tuna migrations in the North Sea
Publication: Research - peer-review › Journal article – Annual report year: 2017

Trophic strategies of unicellular plankton
Publication: Research - peer-review › Journal article – Annual report year: 2017

Unplanned ecological engineering
Publication: Research - peer-review › Comment/debate – Annual report year: 2017

When in life does density dependence occur in fish populations?
Publication: Research - peer-review › Journal article – Annual report year: 2016

Adult and offspring size in the ocean: a database of size metrics and conversion factors
Publication: Research - peer-review › Journal article – Annual report year: 2016

An indicator for ecosystem externalities in fishing
Publication: Research - peer-review › Journal article – Annual report year: 2016

Assumptions behind size-based ecosystem models are realistic: Comment
Publication: Research - peer-review › Journal article – Annual report year: 2016

Characteristic sizes of life in the oceans - from bacteria to whales
Publication: Research - peer-review › Journal article – Annual report year: 2016

Comparing model predictions for ecosystem-based management
Publication: Research - peer-review › Journal article – Annual report year: 2015

Differences in density-dependence drive dual offspring size strategies in fish
Publication: Research - peer-review › Journal article – Annual report year: 2016

Dynamics of a physiologically structured population in a time-varying environment
Publication: Research - peer-review › Journal article – Annual report year: 2016
<table>
<thead>
<tr>
<th>Title</th>
<th>Publication Type</th>
<th>Journal (if applicable)</th>
<th>Annual Report Year</th>
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<tbody>
<tr>
<td>Fish stock assessment under data limitations developing a new method based on a size-structured theoretical ecology framework</td>
<td>Research - Ph.D. thesis</td>
<td>-</td>
<td>2016</td>
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<td>Global patterns in the feeding ecology of large marine fish</td>
<td>Research - Poster</td>
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<td>Maximizing fisheries yields while maintaining community structure</td>
<td>Research - Journal article</td>
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<td>Remaining questions in the case for balanced harvesting</td>
<td>Research - Journal article</td>
<td>-</td>
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<td>Scaling laws in phytoplankton nutrient uptake affinity</td>
<td>Research - Journal article</td>
<td>-</td>
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<td>The theoretical foundations for size spectrum models of fish communities</td>
<td>Research - Journal article</td>
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<td>Adult and offspring size in the ocean over 17 orders of magnitude follows two life history strategies</td>
<td>Research - Journal article</td>
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<td>An effective algorithm for approximating adaptive behavior in seasonal environments</td>
<td>Research - Journal article</td>
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<td>An Indicator for ecosystem externalities in fishing</td>
<td>Research - Report</td>
<td>-</td>
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<td>Assessing stock status instead of fishing mortality reduces the need for information on growth</td>
<td>Research - Conference abstract for conference</td>
<td>-</td>
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<td>Environmental effects on sprat (Sprattus sprattus) physiology and growth at the distribution frontier: A bioenergetic modelling approach</td>
<td>Research - Journal article</td>
<td>-</td>
<td>2015</td>
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<tr>
<td>Four types of interference competition and their impacts on the ecology and evolution of size-structured populations and communities</td>
<td>Research - Journal article</td>
<td>-</td>
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<td>Limits to the reliability of size-based fishing status estimation for data-poor stocks</td>
<td>Research - Journal article</td>
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<td>Maximum sustainable yield from fisheries: food production, resource rent and conservation</td>
<td>Research - Conference abstract in proceedings</td>
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<td>Modelling emergent trophic strategies in plankton</td>
<td>Research - Journal article</td>
<td>-</td>
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<td>Size structure, not metabolic scaling rules, determines fisheries reference points</td>
<td>Research - Journal article</td>
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</table>
Size structures sensory hierarchy in ocean life
Publication: Research - peer-review › Journal article – Annual report year: 2015

Trade-offs between objectives for ecosystem management of fisheries
Publication: Research - peer-review › Journal article – Annual report year: 2014

When bigger is better - a theoretical and empirical examination of factors contributing to selection on offspring size in fish
Publication: Research › Ph.D. thesis – Annual report year: 2015

A life-history evaluation of the impact of maternal effects on recruitment and fisheries reference points
Publication: Research - peer-review › Journal article – Annual report year: 2014

A metacommunity perspective on source-sink dynamics and management: the Baltic Sea as a case study
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

Ecosystem-based management objectives for the North Sea: riding the forage fish rollercoaster
Publication: Research - peer-review › Journal article – Annual report year: 2013

Estimating spatio-temporal dynamics of size-structured populations
Publication: Research - peer-review › Journal article – Annual report year: 2013

Evaluating targets and trade-offs among fisheries and conservation objectives using a multispecies size spectrum model
Publication: Research - peer-review › Journal article – Annual report year: 2014

Forage fish interactions: A symposium on creating the tools for ecosystem-based management of marine resources
Publication: Research - peer-review › Journal article – Annual report year: 2013

Forage fish, their fisheries, and their predators: who drives whom?
Publication: Research - peer-review › Journal article – Annual report year: 2013

mizer: an R package for multispecies, trait-based and community size spectrum ecological modelling
Publication: Research - peer-review › Journal article – Annual report year: 2014

Size-based predictions of food web patterns
Publication: Research - peer-review › Journal article – Annual report year: 2013

The consequences of balanced harvesting of fish communities
Publication: Research - peer-review › Journal article – Annual report year: 2013

Analysing migrations of Atlantic cod Gadus morhua in the north-east Atlantic Ocean: Then, now and the future
Publication: Research - peer-review › Journal article – 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

Coexistence of structured populations with size-based prey selection
Publication: Research - peer-review › Journal article – Annual report year: 2013
Comparing ecosystem models as fisheries management tools: a case study in the California current
Publication: Research › Conference abstract for conference – Annual report year: 2013

Control of plankton seasonal succession by adaptive grazing
Publication: Research - peer-review › Journal article – Annual report year: 2012

Emerging asymmetric interactions between forage and predator fisheries impose management trade-offs
Publication: Research - peer-review › Journal article – Annual report year: 2013

En revision af traditionelle koncepter i fiskeriet. Er balanceret fisiker en mulig forvaltningsstrategi?
Publication: Research › Conference abstract for conference – Annual report year: 2013

Feeding season duration and the relative success of capital and income spawning copepods
Publication: Research › Conference abstract for conference – Annual report year: 2013

Food for thought: Overconfidence in model projections
Publication: Research - peer-review › Journal article – Annual report year: 2013

Individual behaviour of Baltic cod (Gadus morhua) in relation to sex and reproductive state
Publication: Research - peer-review › Journal article – Annual report year: 2013

Optimal foraging and diel vertical migration in a life history model
Publication: Research › Poster – Annual report year: 2013

Size-based estimation of the status of fish stocks: simulation analysis and comparison with age-based estimations
Publication: Research › Conference abstract for conference – Annual report year: 2013

Spawning migration and behavior of Baltic cod (Gadus morhua) based on DST-derived individual information
Publication: Research › Poster – Annual report year: 2013

Trait-based plankton trophic interactions and community composition in a global ocean ecosystem model
Publication: Research › Conference abstract for conference – Annual report year: 2013

Trait diversity promotes stability of community dynamics
Publication: Research - peer-review › Journal article – Annual report year: 2012

Zooplankton feeding traits and community composition in a global ecosystem model
Publication: Research › Conference abstract for conference – Annual report year: 2013

Zooplankton feeding traits and community composition in a global ecosystem model
Publication: Research › Poster – Annual report year: 2013

Management trade-offs emerging from forage and predator fishery interactions
Publication: Research › Poster – Annual report year: 2012

Marine ecology and fisheries
Publication: Research - peer-review › Book chapter – Annual report year: 2012

Editorial comment: Body size and the (re)unification of ecology
Publication: Research - peer-review › Journal article – Annual report year: 2011
Effects of future climate on physiology and egg production in Baltic Sea sprat
Publication: Research › Poster – Annual report year: 2011

Food web framework for size-structured populations
Publication: Research - peer-review › Journal article – Annual report year: 2011

General classification of maturation reaction-norm shape from size-based processes
Publication: Research - peer-review › Journal article – Annual report year: 2010

Scenarios of ecological and economic consequences of rebuilding paths of depleted populations
Publication: Research › Paper – Annual report year: 2011

Calculation of expected rates of fisheries-induced evolution in data-poor situations
Publication: Research › Conference abstract in proceedings – Annual report year: 2010

Calculation of expected rates of fisheries-induced evolution in data-poor situations
Publication: Research › Paper – Annual report year: 2010

Damped trophic cascades driven by fishing in model marine ecosystems
Publication: Research - peer-review › Journal article – Annual report year: 2010

Deriving fish behaviour related patterns in fishing pressure from DST data
Publication: Research › Poster – Annual report year: 2010

Direct and indirect community effects of rebuilding plans
Publication: Research - peer-review › Journal article – Annual report year: 2010

How Gaussian competition leads to lumpy or uniform species distributions
Publication: Research - peer-review › Journal article – Annual report year: 2010

Size-based assessment of ecosystem effects of fishery management decisions
Publication: Research › Poster – Annual report year: 2010

Thermal niche of Atlantic cod Gadus morhua: limits, tolerance and optima
Publication: Research - peer-review › Journal article – Annual report year: 2010

Bioenergetic, life-history modeling of sprat
Publication: Research › Poster – Annual report year: 2009

Cod spatial dynamics and vertical movements in European waters and implications for fishery management (CODYSSSEY)
Publication: Research › Report – Annual report year: 2009

Expected rate of fisheries-induced evolution is slow
Publication: Research - peer-review › Journal article – Annual report year: 2009

Expected rate of fisheries-induced evolution is slow
Publication: Research › Poster – Annual report year: 2009

How community ecology links natural mortality, growth, and production of fish populations
Publication: Research - peer-review › Journal article – Annual report year: 2009
Hvorfor kører Michael Rasmussen så hurtigt op ad bakke? Og hvorfor vinder Tom Boonen spurterne?
Publication: Education - peer-review › Book chapter – Annual report year: 2009

Indirect effects of recovery strategies
Publication: Research › Conference abstract for conference – Annual report year: 2009

Optimal behaviour and dynamical impact in a plankton predator-prey system
Publication: Research › Conference abstract for conference – Annual report year: 2009

Reply to Kinnison et al.: Effects of fishing on phenotypes
Publication: Research - peer-review › Journal article – Annual report year: 2009

Some Atlantic cod Gadus morhua in the Baltic Sea visit hypoxic water briefly but often
Publication: Research - peer-review › Journal article – Annual report year: 2009

Species competition: coexistence, exclusion and clustering
Publication: Research - peer-review › Journal article – Annual report year: 2009

Trophic and individual efficiencies of size-structured communities
Publication: Research - peer-review › Journal article – Annual report year: 2009

Atlantic cod Gadus morhua L. in the Baltic Sea visit hypoxic water briefly but often
Publication: Research › Poster – Annual report year: 2008

Geolocation of North Sea cod (Gadus morhua) using Hidden Markov Models and behavioural switching
Publication: Research - peer-review › Journal article – Annual report year: 2008

Hvad betyder Øresund for naboområderne?
Publication: Communication › Newspaper article – Annual report year: 2008

Life-history constraints on the success of the many small eggs reproductive strategy
Publication: Research - peer-review › Journal article – Annual report year: 2008

Process-based model for direct and indirect effects of hydrographic conditions on Central Baltic (Gadus morhua) cod egg mortality
Publication: Research - peer-review › Journal article – Annual report year: 2008

Trophic cascades in size-spectra
Publication: Research › Conference article – Annual report year: 2008

Eulerian techniques for individual-based models with additive components
Publication: Research - peer-review › Journal article – Annual report year: 2007

Reconstructing migrations of individual cod (Gadus morhua L.) in the Baltic Sea by using electronic data storage tags
Publication: Research - peer-review › Journal article – Annual report year: 2007

Spatial and temporal heterogeneity of the cod spawning environment in the Bornholm Basin, Baltic Sea
Publication: Research - peer-review › Journal article – Annual report year: 2007
The evolutionary pressure from fishing on size at maturation of Baltic cod
Publication: Research - peer-review › Journal article – Annual report year: 2007

Using the particle filter to geolocate Atlantic cod (Gadus morhua) in the Baltic Sea, with special emphasis on determining uncertainty
Publication: Research - peer-review › Journal article – Annual report year: 2007

Asymptotic size determines species abundance in the marine size spectrum
Publication: Research - peer-review › Journal article – Annual report year: 2006

Geolocation of tagged Baltic Cod using the particle filter
Publication: Research › Conference abstract in proceedings – Annual report year: 2006

Management options for reversing depressed maturation-size in Baltic Cod
Publication: Research › Conference abstract in proceedings – Annual report year: 2006

Torskens hemmelige liv
Publication: Research › Journal article – Annual report year: 2006

How optimal life history changes with the community size-spectrum
Publication: Research - peer-review › Journal article – Annual report year: 2005

Corridors of barchan dunes: Stability and size selection
Publication: Research - peer-review › Journal article – Annual report year: 2004

Process oriented model of egg mortality for Central Baltic cod, Gadus morhua callarias L.
Publication: Research › Conference article – Annual report year: 2004

The wave plus current flow over vortex ripples at an arbitrary angle
Publication: Research - peer-review › Journal article – Annual report year: 2003

Pattern dynamics of vortex ripples in sand: Nonlinear modeling and experimental validation
Publication: Research - peer-review › Journal article – Annual report year: 2002

A particle model of rolling grain ripples under waves
Publication: Research - peer-review › Journal article – Annual report year: 2001

Dynamical models for sand ripples beneath surface waves
Publication: Research - peer-review › Journal article – Annual report year: 2001

Pattern formation - Instabilities in sand ripples
Publication: Research - peer-review › Journal article – Annual report year: 2001

Stability balloon for two-dimensional vortex ripple patterns
Publication: Research - peer-review › Journal article – Annual report year: 2001

The dissipation of waves over a rippled bed
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Pulses in the Zero-Spacing Limit of the GOY Model
Publication: Research - peer-review › Journal article – Annual report year: 2000
Simple stochastic models showing strong anomalous diffusion
Publication: Research - peer-review › Journal article – Annual report year: 2000

Shell model for time-correlated random advection of passive scalars
Publication: Research - peer-review › Journal article – Annual report year: 1999

Wave plus current over a ripple-covered bed
Publication: Research - peer-review › Journal article – Annual report year: 1999

A simple model for the various pattern dynamics of dunes
Publication: Research - peer-review › Journal article – Annual report year: 1998

Bursts and shocks in a continuum shell model
Publication: Research - peer-review › Journal article – Annual report year: 1998

Measurement of the velocity profile in and above a field of Laminaria Hyperborea
Publication: Research - peer-review › Journal article – Annual report year: 1996

Projects:

Trait-based modelling of copepod communities
Project: PhD

Understanding the biodiversity-ecosystem functioning relationship in marine food webs through large-scale observations and modelling
Project: PhD

Mechanistic approach to ocean ecology (39427)
Project

Reduktion af lakseinfektioner
Project: PhD

A trait-based approach for predicting fish community structure, function and services under climate change and exploitation
Project: PhD

Density-dependent processes in marine fish stocks
Project: PhD

Marine management of ecosystem dynamics under climate change (MARmaED) (39300)
Project

Trait Ecology of Plankton in a Changing Marine Environment
Project: PhD

State-Space Modelling In Marine Science
Project: PhD
A trait-based approach towards understanding benthic-pelagic pathways in marine ecosystems
Project: PhD

Operationalization of trait-based modelling for an ecosystem approach to fisheries
Project: PhD

Analysis of trait-based models in marine ecosystems
Project: PhD

Sustainable bycatch in Danish fishery - Reasonable management under the landing obligation (39028)
Project

Grey-box methods for size-based estimation of fish stocks
Project: PhD

Trait-based analysis and modelling of fish communities
Project: PhD

Center for Ocean Life (COOL) - a Villum-Kahn Rasmussen Centre of excellence for the study of life in a changing ocean (38960)
Project

Climate change on marine ecosystems and resource economics (NorMER) (38898)
Project

Trait based plankton ecology (38896)
Project

Modelling the competition between two closely-related copepod species in Arctic under climate change
Project: PhD

European basin-scale analysis, synthesis and integration (EURO-BASIN) (38899)
Project

Forage fish interactions (FACTS) (38781)
Project

Demography of fished Populations: Yield, Resilience and Evolutionary Change
Project: PhD

Statistisk modellering af marine økosystemer
Project: PhD

Mathematical modelling and analysis of marine ecological systems with stage structures and size spectrums
Project: PhD

Marine ecosystem evolution in a changing environment (MEECE) (38131)
Project

Rekruttering af brisling
Project: PhD
Modelling the impact of hydrography and lower trophic production on fish recruitment (MODREC) (38114)

Resolving climatic impacts on fish stocks (RECLAIM) (38109)

Indicators for fisheries management in Europe (IMAGE) (38225)

Spatially-explicit management methods for North Sea cod – a Danish fishermen-science collaboration (REX, REX II, REX III) (38430, 38431, 38541)

Understanding the mechanisms of stock recovery (UNCOVER) (38104)

Shell models of turbulence

Flow over a ripple-covered bed in waves

Morphology of ripples beneath surface waves

Activities:

ICES - Symposium on “Forage fish interactions: Creating the tools for ecosystem based management of marine resources” (External organisation)

ICES - Working Group on Fisheries-Induced Evolution - WGEVO (External organisation)

ICES - Working Group on Maritime Systems - WGMARS (External organisation)