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Publications:

Evolution of complex asexual reproductive strategies in jellyfish
Publication: Research - peer-review › Journal article – Annual report year: 2018

Monitoring and ming bio-physical parameters for hypoxia hazard in a coastal sand pit
Publication: Research - peer-review › Journal article – Annual report year: 2018

A generic framework for individual-based modelling and physical-biological interaction
Publication: Research - peer-review › Journal article – Annual report year: 2018

Microplastic does not magnify the acute effect of PAH pyrene on predatory performance of a tropical fish (Lates calcarifer)
Publication: Research - peer-review › Journal article – Annual report year: 2018

Modeling dispersal and spatial connectivity of macro-invertebrates in Danish waters: An agent-based approach
Publication: Research - peer-review › Journal article – Annual report year: 2018

Sustainable use of marine resources through offshore wind and mussel farm co-location
Publication: Research › Conference abstract for conference – Annual report year: 2018

Dynamics of phytoplankton blooms in turbulent vortex cells
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

Modelling Jellyfish in marine ecosystems
Publication: Research › Conference abstract for conference – Annual report year: 2017

On the missing link in ecology: improving communication between modellers and experimentalists
Publication: Research - peer-review › Journal article – Annual report year: 2017

Passive vs Active Knowledge Transfer: boosting grant proposal impact
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2017

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

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

A dark hole in our understanding of marine ecosystems and their services: Perspectives from the mesopelagic community
Publication: Research - peer-review › Journal article – Annual report year: 2016

The global susceptibility of coastal forage fish to competition by large jellyfish
Publication: Research - peer-review › Journal article – Annual report year: 2016

The migration game in habitat network: the case of tuna
Publication: Research - peer-review › Journal article – Annual report year: 2015

Adfærd hos torsk på et kunstigt stenrev i et baglokale på den Blå Planet
Publication: Research › Conference abstract for conference – Annual report year: 2015

A new compact, cost-efficient concept for underwater range-gated imaging: the UTOFIA project
Publication: Research › Poster – Annual report year: 2015

Network analysis of food risks and crises in the global seafood market
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Optimal bæredygtig udnyttelse af tilgængelige tørskebestande for dansk fiskeri
Publication: Research › Report – Annual report year: 2015

RevFisk – et projekt som kvantificerer stenrevs betydning for fisk
Publication: Research › Poster – Annual report year: 2015

RevFisk – et projekt som kvantificerer stenrevs (et lavtliggende stenrev i den fotiske zone og et dybere liggende stenrev i den afotiske zone) betydning for fisk
Publication: Research › Conference abstract for conference – Annual report year: 2015

The role of deep convection on the dynamics of the North Atlantic phytoplankton community
Publication: Research › Ph.D. thesis – 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

A Sustainability Index of potential co-location of offshore wind farms and open water aquaculture
Publication: Research - peer-review › Journal article – Annual report year: 2014

Comparative ecology of widely distributed pelagic fish species in the North Atlantic: Implications for modelling climate and fisheries impacts
Publication: Research - peer-review › Journal article – Annual report year: 2014

Fishing out collective memory of migratory schools
Publication: Research - peer-review › Journal article – Annual report year: 2014
Route optimisation and solving Zermelo's navigation problem during long distance migration in cross flows
Publication: Research - peer-review › Journal article – Annual report year: 2013

The first "lost year" of Mediterranean sea turtles: dispersal patterns indicate subregional management units for conservation
Publication: Research - peer-review › Journal article – Annual report year: 2014

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

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

Publication: Research › Report – Annual report year: 2013

Optimization of fisheries resource exploitation in the Skagerrak (Oskar)
Publication: Research › Report – Annual report year: 2012

Spawning of bluefin tuna in the black sea: historical evidence, environmental constraints and population plasticity
Publication: Research - peer-review › Journal article – Annual report year: 2012

Torsk og klima: Hvordan påvirker klimaændringerne torsken i Nordsøen?
Publication: Education › Other contribution – Annual report year: 2012

A sustainability index for offshore wind farms and open water aquaculture
Publication: Research › Article in proceedings – Annual report year: 2011

Larval growth in the dominant polychaete Polydora ciliata is food-limited in a eutrophic Danish estuary (Isefjord)
Publication: Research - peer-review › Journal article – Annual report year: 2010

Modelling retention and dispersion mechanisms of bluefin tuna eggs and larvae in the Northwest Mediterranean Sea
Publication: Research - peer-review › Journal article – Annual report year: 2010

Offshore wind farms and their potential for shellfish aquaculture and restocking
Publication: Research › Poster – Annual report year: 2010

Ontogenetic development of migration: Lagrangian drift trajectories suggest a new paradigm for sea turtles
Publication: Research - peer-review › Journal article – Annual report year: 2010

Optimization and emergence in marine ecosystem models
Publication: Research - peer-review › Journal article – Annual report year: 2010

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

Swimming in turbulence: zooplankton fitness in terms of foraging efficiency and predation risk
Publication: Research - peer-review › Journal article – Annual report year: 2009

Hindcasting the temperature and growth history of surviving larvae of bluefin tuna (Thunnus thynnus) in the Northwest Mediterranean Sea
Publication: Research › Conference abstract in proceedings – Annual report year: 2008
A numerical investigation of the impact of turbulence on the feeding rates of Oithona davisae
Publication: Research - peer-review › Journal article – Annual report year: 2007

Individual based model of cod larvae feeding behavior: interaction with turbulence and search shape
Publication: Research › Conference abstract for conference – Annual report year: 2007

Individual-based simulations of larval fish feeding in turbulent environments
Publication: Research › Journal article – Annual report year: 2007

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

Modelling dispersion mechanisms of bluefin tuna larvae in the Balearic area
Publication: Research › Conference abstract for conference – Annual report year: 2007

Modelling retention dispersion mechanisms of bluefin tuna eggs and larvae in the Balearic area
Publication: Research › Conference abstract for conference – Annual report year: 2007

pPOM: A nested, scalable, parallel and Fortran 90 implementation of the Princeton Ocean Model
Publication: Research - peer-review › Journal article – Annual report year: 2007

A grid computing based virtual laboratory for environmental simulations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

An object-oriented model for the prediction of turbulence effects on plankton
Publication: Research - peer-review › Journal article – Annual report year: 2005

Effects of small scale motion on plankton
Publication: Research › Ph.D. thesis – Annual report year: 2005

Modeling and computational issues for air/water quality problems: A grid computing approach
Publication: Research - peer-review › Journal article – Annual report year: 2005

Projects:

Vertical migration and the structure and function of pelagic ecosystems
Project: PhD

Process integration into multispecies and ecosystem models: Resulting ecological, economic and social trade offs (PRIME TRADE OFFS) (39324)
Project

Reconfigurable Modular Robotic System for Aquatic Environment
Project

Collaborative modular underwater robotic system for long-term autonomous operations (REMORA) (39341)
Project

COLUMBUS (39239)
Project
Underwater time of flight image acquisition system (UTOFIA) (39240)

Modelling the role of competition between fish and jellyfish in marine pelagic ecosystems
Project: PhD

Coastal mussel banks: The importance for the fish fauna and possibilities for habitat restoration (MusFisk) (39133)

EUROMARINE Consortium (39185)

Boulder reefs as spawning and nursery areas for fish (RevFisk) (39144)

Optimal sustainable use of cod stocks accessible for Danish fisheries (DEL-TORSK) (39147)

PhD Scholarship in Physical Oceanography
Project: PhD

A coast to coast network of protected areas: From the shore to the deep sea (CoCoNet) (38863)

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

MyOcean 2 (38862)

The role of deep convection on the dynamics of the North Atlantic phytoplankton community
Project: PhD

Integration of European marine research networks of excellence (EUROMARINE) (38903)

North Atlantic - Arctic coupling in a changing climate: Impacts on ocean circulation, carbon cycling and sea-ice (NAACOS) (38888)

Trait based plankton ecology (38896)

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

The importance of the copepod species Metridia spp. in the Godthåbsfjord at present and future climate conditions
Project: PhD
Geographical distribution of fish resources and optimizing of fishery practice in the north-eastern North Sea (RESOURCE) (38878)

Building scenarios for marine ecosystems under anthropogenic and natural forcings (EurOceans Consortium) (38779)

MyOcean (38134)

Modelling the impact of hydrography and lower trophic production on fish recruitment (MODREC) (38114)

Activities:

EGU2017-18355 Passive vs Active Knowledge Transfer: boosting grant proposal impact

Activity: Talks and presentations › Conference presentations