Stefan Neuenfeldt - DTU Orbit (12/02/2018)

Neuenfeldt, Stefan
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National Institute of Aquatic Resources - Senior Researcher
Section for Oceans and Arctic

Publications:

Diel vertical interactions between Atlantic cod Gadus morhua and sprat Sprattus sprattus in a stratified water column
Andersen, N. G., Lundgren, B., Neuenfeldt, S. & Beyer, J. 2017 In : Marine Ecology Progress Series. 583, p. 195-209
Publication: Research - peer-review › Journal article – Annual report year: 2017

Ecosystem indicators in the context of fisheries management: example of cod in the Baltic Sea
Publication: Research › Conference abstract for conference – Annual report year: 2016

Hypoxic areas, density-dependence and food limitation drive the body condition of a heavily exploited marine fish predator
Casini, M., Käll, F., Hansson, M., Plikshs, M., Baranova, T., Karlsson, O., Lundström, K., Neuenfeldt, S., Gärdmark, A. & Hjelm, J. 2016 In : Royal Society Open Science. 3, 10, 160416
Publication: Research - peer-review › Journal article – Annual report year: 2016

Marine ecosystem connectivity mediated by migrant–resident interactions and the concomitant cross-system flux of lipids
Publication: Research - peer-review › Journal article – Annual report year: 2016

Publication: Research › Report – Annual report year: 2016

Connecting the seas of Norden: Commentary
Publication: Research - peer-review › Journal article – Annual report year: 2015

Review of environmental factors influencing distributions of selected Baltic species: Report: BIO-C3 Deliverable, D1.1 . EU Bonusproject BIO-C3
Publication: Research › Report – Annual report year: 2016

Short-term prediction and harvest control rules for Baltic cod (Gadus morhua): A generic method to include state of the art knowledge on environmental uncertainty and its consequences –would it make a difference for advice?
Publication: Research › Conference abstract for conference – Annual report year: 2015

Small-scale distribution of Baltic sprat: Statistical properties of school height, length and biomass imply school formation and species interaction mechanisms
Neuenfeldt, S., Gloes, D., Möller, K. O. & Möllmann, C. 2015
Publication: Research › Conference abstract for conference – Annual report year: 2015
A demonstration of an integrated ecosystem assessment and advice for Baltic Sea fish stocks
Publication: Research › Conference abstract for conference – Annual report year: 2014

A metacommunity perspective on source-sink dynamics and management: the Baltic Sea as a case study
Lindegren, M., Andersen, K. H., Casini, M. & Neuenfeldt, S. 2014 In : Ecological Applications. 24, 7, p. 1820-1832
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

Implementing ecosystem-based fisheries management: from single-species to integrated ecosystem assessment and advice for Baltic Sea fish stocks
Publication: Research - peer-review › Journal article – Annual report year: 2013

Seasonal migration, vertical activity and winter temperature experience of Greenland halibut Reinhardtius hippoglossoides (Walbaum) in West Greenland waters
Publication: Research - peer-review › Journal article – Annual report year: 2014

Sustainable exploitation and management of aquatic resources
Publication: Research › Conference abstract in proceedings – Annual report year: 2014

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

Biological ensemble modeling to evaluate potential futures of living marine resources
Publication: Research - peer-review › Journal article – Annual report year: 2013

Can IBMs tell us why some cod undertake vertical (feeding) migrations into hypoxic waters?
Behrens, J. W., Neuenfeldt, S. & Deurs, M. V. 2013
Publication: Research › Conference abstract for conference – Annual report year: 2013

Identification of seasonal migration, vertical activity and thermal experience of Greenland halibut Reinhardtius hippoglossoides (Walbaum) in west Greenland waters
Publication: Research › Poster – Annual report year: 2013

Individual behaviour of Baltic cod (Gadus morhua) in relation to sex and reproductive state
Nielsen, B., Hüsey, K., Neuenfeldt, S., Tomkiewicz, J., Behrens, J. & Andersen, K. H. 2013 In : Aquatic Biology. 18, 2, p. 197-207
Deriving fish behaviour related patterns in fishing pressure from DST data
Neuenfeldt, S., Andersen, K. H. & Kristensen, K. 2010
Publication: Research › Poster – Annual report year: 2010

Impact of hypoxia on consumption of Baltic cod in a multispecies stock assessment context
Publication: Research - peer-review › Journal article – Annual report year: 2010

Optimal fishery management accounting for variation in natural mortality: the Baltic sprat and herring case
Publication: Research › Conference abstract in proceedings – 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

Time matters: post-surgical recovery of gastric evacuation rate in Atlantic cod
Behrens, J., Gräns, A., Andersen, N. G., Neuenfeldt, S. & Axelsson, M. 2010
Publication: Research › Poster – Annual report year: 2010

3d pelagic habitat mapping in the Baltic Sea – Using Geographic Information Systems to understand ecological processes in their spatial explicit context
Geitner, K. & Neuenfeldt, S. 2009
Publication: Research › Conference abstract for conference – Annual report year: 2009

Adaptive behaviour of Baltic cod feeding in hypoxic water
Publication: Research › Article in proceedings – Annual report year: 2009

Baltic cod cannibalism: Differing consequences at stock recovery versus the historic situation of cod decline?
Neuenfeldt, S. & Köster, F. 2009
Publication: Research › Conference abstract for conference – Annual report year: 2009

Biological ensemble modelling of the Eastern Baltic cod future
Publication: Research › Conference abstract in proceedings – Annual report year: 2009

Climate driven long-term evolution of oxygen concentration in the Baltic Sea: potential consequences for the Baltic cod stock
Publication: Research › Article in proceedings – Annual report year: 2009

Cod spatial dynamics and vertical movements in European waters and implications for fishery management (CODYSSEY)
How ambient habitat traits determine seasonal and spatial distribution patterns of cod Gadus morhua L. in the central Baltic Sea
Publication: Research › Poster – Annual report year: 2009

Hydroacoustic resolution of small-scale vertical distribution in Baltic cod Gadus morhua - habitat choice and limits during spawning
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
Neuenfeldt, S., Andersen, K. H. & Hinrichsen, H-H. 2009 In : Journal of Fish Biology. 75, 1, p. 290-294
Publication: Research - peer-review › Journal article – Annual report year: 2009

UNCOVER: Fish Stock Recovery Strategies – Lessons learned in the Baltic Sea
Publication: Research › Conference abstract for conference – Annual report year: 2009

Using biotelemetry to investigate cardiovascular tradeoffs in cod feeding under hypoxic conditions
Behrens, J., Thygesen, U. H. & Neuenfeldt, S. 2009
Publication: Research › Poster – Annual report year: 2009

Using individual-based stomach and data storage tag data to improve multispecies modelling: linking spatial overlap between predator-prey populations and individual functional response
Publication: Research › Conference abstract in proceedings – Annual report year: 2009

Vertical movements of Atlantic cod (Gadus morhua) in the North Sea and the Baltic Sea
Neuenfeldt, S., Payne, M., Righton, D. & Van der Kooij, J. 2009
Publication: Research › Poster – Annual report year: 2009

3d pelagic habitat mapping in the Baltic Sea
Geitner, K. & Neuenfeldt, S. 2008
Publication: Research › Conference abstract for conference – Annual report year: 2008

Atlantic cod Gadus morhua L. in the Baltic Sea visit hypoxic water briefly but often
Neuenfeldt, S., Andersen, K. H. & Hinrichsen, H-H. 2008
Publication: Research › Poster – Annual report year: 2008

Hvad betyder Øresund for naboområderne?
Neuenfeldt, S. & Andersen, K. H. 2008 15, 7, Fiskeri Tidende
Publication: Communication › Newspaper article – Annual report year: 2008

3D-modelling of pelagic cod habitats in the Baltic Sea
Publication: Research › Article in proceedings – Annual report year: 2007

Life under pressure: Insights from electronic data-storage tags into cod swimbladder function
Publication: Research - peer-review › Journal article – Annual report year: 2007
Pelagic habitat mapping: A tool for area-based fisheries management in the Baltic Sea
Publication: Research › Report – 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

REX på hot spots
Neuenfeldt, S., Olesen, H. J. & Karlsen, J. 2007 40, Fiskeri Tidende
Publication: Communication › Newspaper article – Annual report year: 2007

Torskemærkninger i Øresund
Neuenfeldt, S., Karlsen, J. & Olesen, H. J. 2007 43, Fiskeri Tidende
Publication: Communication › Newspaper 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

Environmentally driven predator-prey overlaps determine the aggregate diet of the cod Gadus morhua in the Baltic Sea
Neuenfeldt, S. & Beyer, J. 2006 In : Marine Ecology - Progress Series. 310, p. 151-163
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

Torskens hemmelige liv
Andersen, K. H. & Neuenfeldt, S. 2006 In : Fisk og Hav. 61, p. 3-10
Publication: Research › Journal article – Annual report year: 2006

A method to geolocate eastern Baltic cod by using Data Storage Tags (DSTs)
Publication: Research › Conference article – Annual report year: 2004

Three-dimensional visualization of cod spatial dynamics and vertical movements in European waters
Publication: Research › Book chapter – Annual report year: 2004

Fish stock development in the Central Baltic Sea (1976-2000) in relation to variability in the environment
Publication: Research - peer-review › Journal article – Annual report year: 2003

Oxygen and salinity characteristics of predator-prey distributional overlaps shown by predatory Baltic cod during spawning
Publication: Research - peer-review › Journal article – Annual report year: 2003
The influence of oxygen saturation on the distributional overlap of predator (cod, Gadus morhua) and prey (herring, Clupea harengus) in the Bornholm Basin of the Baltic Sea
Neuenfeldt, S. 2002 In : Fisheries Oceanography. 11, 1, p. 11-17
Publication: Research - peer-review › Journal article – Annual report year: 2002

Developing Baltic cod recruitment models I: Resolving spatial and temporal dynamics of spawning stock and recruitment for cod, herring, and sprat
Köster, F., Möllmann, C., Neuenfeldt, S., St. John, M., Plikshs, M. & Voss, R. 2001 In : Canadian Journal of Fisheries and Aquatic Sciences. 58, 8, p. 1516-1533
Publication: Research - peer-review › Journal article – Annual report year: 2001

Trophodynamic control on recruitment success in Baltic cod: the influence of cannibalism
Publication: Research - peer-review › Journal article – Annual report year: 2000

Projects:

Eastern Baltic cod - New knowledge of growth and mortality is the way to improved management advice (39366)
Eero, M., Storr-Paulsen, M., Tomkiewicz, J., Hansen, J. H., Neuenfeldt, S., Christensen, A., Kindt-Larsen, L. & Berg, C. W. 15/08/2016 → 15/08/2018
Project

Evaluation of Sustainable Exploitation of Major Baltic Fish Stocks under different Climate, Eutrophication and Fishing Pressures
Bossier, S., Nielsen, J. R., Bastardie, F., Christensen, A. & Neuenfeldt, S. 01/07/2016 → 30/06/2019
Project: PhD

Process integration into multispecies and ecosystem models: Resulting ecological, economic and social trade offs (PRIME TRADE OFFS) (39324)
Neuenfeldt, S., Andersen, N. G., Mariani, P. & Thygesen, U. H. 01/03/2016 → 28/02/2019
Project

A systems approach framework for coastal research and management in the Baltic (BaltCoast) (39201)
Støttrup, J. G., Dinesen, G. E., Wisz, M., Neuenfeldt, S., Hüssy, K., Kristensen, K., Vinther, M. & Sørensen, T. K. 01/04/2015 → 31/03/2018
Project

Biodiversity changes - causes, consequences and management implications (BIO-C3) (39117)
Köster, F., Neuenfeldt, S., Tomkiewicz, J., MacKenzie, B., Jaspers, C., Eero, M., Bekkevold, D., Dutz, J., Behrens, J. & Huwer, B. 01/03/2014 → 28/02/2018
Project

Integrating spatial processes into ecosystem models for sustainable utilization of fish resources (INSPIRE) (39118)
Neuenfeldt, S., Hüssy, K., Andersen, N. G. & Eero, M. 01/02/2014 → 30/08/2017
Project

Early Life of Capelin (Mallotus villosus) in West Greenland Waters
Malanski, E., Nielsen, T. G., Munk, P., Neuenfeldt, S., Grønkjær, P. & Pedersen, T. 01/12/2012 → 01/09/2016
Project: PhD
Study on stomach content of fish to support the assessment of good environmental status of marine food webs and the prediction of MSY after stock restoration (Open call for tenders No MARE/2012/02) (39036)
Huwer, B., Andreasen, H., Neuenfeldt, S., Rindorf, A., Storr-Paulsen, M., Andersen, N. G. & Haslund, O. H.
27/11/2012 → 27/11/2014
Project

Maximizing yield of fisheries while balancing ecosystem, economic and social concerns (MYFISH) (38850)
01/01/2012 → 29/02/2016
Project

Operational ecology: Ecosystem forecast products to enhance marine GMES applications (OPEC) (38864)
Christensen, A., Vinther, M., Neuenfeldt, S. & St. John, M.
01/01/2012 → 31/12/2014
Project

Functional biology of krill in northern marine ecosystems
Agersted, M. D., Nielsen, T. G., St. John, M., Neuenfeldt, S., Kaartvedt, S. & Schmidt, K.
01/05/2011 → 30/09/2014
Project: PhD

Forage fish interactions (FACTS) (38781)
Neuenfeldt, S., Haslund, O. H., Andersen, K. H. & Rindorf, A.
01/01/2010 → 31/12/2012
Project

Monitoring and modelling vertical movements of Greenland halibut in Disko Bay (38795)
Boje, J., Neuenfeldt, S. & Behrens, J.
01/01/2010 → 31/12/2013
Project

Advanced modelling tool for scenarios of the Baltic Sea ecosystem to support decision making (ECOSUPPORT) (38733)
MacKenzie, B., Eero, M., Lindegren, M. & Neuenfeldt, S.
01/01/2009 → 31/12/2011
Project

Cardio-respiratory adaptations in cod feeding under hypoxic conditions (CarlsbergTorsk) (38851)
Behrens, J., Neuenfeldt, S., Thygesen, U. H. & Mosegaard, H.
01/01/2009 → 31/05/2012
Project

Influence of ecological dynamics and climate change on the marine environment in Danish waters (ECODYN) (38136)
Thygesen, U. H., Neuenfeldt, S. & Behrens, J.
01/01/2008 → 01/04/2012
Project

Marine ecosystem evolution in a changing environment (MEECE) (38131)
Christensen, A., Köster, F., Vinther, M., Neuenfeldt, S., MacKenzie, B., Nielsen, J. R., Eero, M., Andersen, K. H., Bastardie, F., Neumann, V. & Grigorov, I.
01/01/2008 → 15/10/2012
Project

Resolving climatic impacts on fish stocks (RECLAIM) (38109)
Köster, F., Christensen, A., Neuenfeldt, S., MacKenzie, B., Andersen, K. H., Huwer, B., Payne, M., Brander, K., Gürkan, Z., Mosegaard, H., Geitner, K. & Jensen, H.
01/01/2007 → 31/12/2009
Spatially-explicit management methods for North Sea cod – a Danish fishermen-science collaboration (REX, REX II, REX III) (38430, 38431, 38541)
01/01/2006 → 31/01/2010

Understanding the mechanisms of stock recovery (UNCOVER) (38104)
01/01/2006 → 31/12/2010

Baltic Sea management: Nature conservation and sustainable development of the ecosystem through spatial planning (BALANCE) (38432)
Sørensen, T. K., Geitner, K., Sparrevohn, C. R., Hüsy, K., Köster, F., Tomkiewicz, J., Neuenfeldt, S. & Vestergaard, O.
01/01/2005 → 31/12/2007

Critical interactions between species and their implications for a precautionary fisheries management in a variable environment – a modeling approach (BECAUSE) (38613)
Köster, F., Vinther, M., Tomkiewicz, J., Neuenfeldt, S., Rindorf, A. & Christensen, A.
01/01/2004 → 31/12/2007

Activities:

ICES - ICES/HELCOM Working Group on Integrated Assessments of the Baltic Sea - WGIAB (External organisation)
Neuenfeldt, S. (Participant)
2015
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

ICES - ICES/HELCOM Working Group on Integrated Assessments of the Baltic Sea - WGIAB (External organisation)
Neuenfeldt, S. (Participant)
2014
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

ICES - Working Group on Recruitment Forecasting in a Variable Environment - WGRFE (External organisation)
Neuenfeldt, S. (Participant)
2014
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

ICES - Baltic Fisheries Assessment Working Group - WGBFAS (External organisation)
Neuenfeldt, S. (Participant)
2012 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

ICES - ICES/HELCOM Working Group on Integrated Assessments of the Baltic Sea - WGIAB (External organisation)
Neuenfeldt, S. (Participant)
2012 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar
ICES - Study Group on Spatial Analyses for the Baltic Sea - SGSPATIAL (External organisation)
Neuenfeldt, S. (Participant)
2012 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

ICES - Symposium on “Forage fish interactions: Creating the tools for ecosystem based management of marine resources” (External organisation)
Neuenfeldt, S. (Participant)
2012 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

ICES - Working Group on Biodiversity Science - WGBIODIV (External organisation)
Neuenfeldt, S. (Participant)
2012 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

ICES - Working Group on Fish Ecology - WGFE (External organisation)
Neuenfeldt, S. (Participant)
2012 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

ICES - Working Group on Integrative, Physical-biological, and Ecosystem Modelling - WGIPEM (External organisation)
Neuenfeldt, S. (Participant)
2012 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

ICES - Workshop on Benchmarking Integrated Ecosystem Assessment - WKBEMIA (External organisation)
Neuenfeldt, S. (Participant)
2012 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar