

Theme session K

New approaches to the understanding of energy transfer through the foodwebs

Conveners: Hildur Pétursdóttir (Iceland), Janna Peters (Germany), Marie Johansen (Sweden)

Wednesday 11 September 2019, 13:30-16:00, Room H2

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13:30	Introduction to Theme session K
13:36	<p>CM Code: K:653</p> <p>Title: Using imaging cytometry to assess the trophic role of micro- and mesozooplankton.</p> <p>Authors: Elaine Fileman, Cornwell, L., Harmer, R., Sailey, S., & Atkinson, A.</p> <p>Keywords: microzooplankton, phytoplankton, growth, grazing</p> <p>Presentation type: Oral</p>
13:48	<p>CM Code: K:219</p> <p>Title: Microhabitats for small Zooplankton created by Marine Snow Aggregates and Fecal Pellets</p> <p>Authors: M. Fredrika Norrbin, Theo Beroujon, Morten Iversen, Marja Koski, Helena K. Michelsen, Camilla Svensen</p> <p>Keywords: Zooplankton Distributions, Marine Snow, Fecal Pellets. Microsetella, VPR</p> <p>Presentation type: Oral</p>
14:00	<p>CM Code: K:470</p> <p>Title: Jellyfish on the menu: mtDNA assay reveals scyphozoan predation in the Irish Sea</p> <p>Authors: Philip D. Lamb, John K. Pinnegar, Ewan Hunter, Martin I. Taylor</p> <p>Keywords: jellyfish, diet, gut content analysis, predation, 16S mtDNA</p> <p>Presentation type: Oral</p>
14:12	<p>CM Code: K:93</p> <p>Title: Integrative analysis of the mesopelagic food web: metabarcoding, morphological taxonomy, and stable isotope analysis of the diets of fishes and salps in the ocean twilight zone</p> <p>Authors: Ann Bucklin, Joel K. Llopiz, Simon R. Thorrold, Paola G. Batta-Lona, Sarah Glancy, Melissa Wojcicki, Alexandra Frenzel</p> <p>Keywords: metabarcoding, stable isotopes, mesopelagic food web, salps, ocean twilight zone</p> <p>Presentation type: Oral</p>
14:24	<p>CM Code: K:113</p> <p>Title: Food source preference of five fish species related to an offshore wind farm at the Belgian part of the North Sea</p> <p>Authors: Ninon Mavraki, Steven Degraer, Jan Vanaverbeke</p> <p>Keywords: trophic niche, artificial reef, trophic generalist, omnivory</p> <p>Presentation type: Oral</p>
14:36	<p>CM Code: K:217</p> <p>Title: Diet tracing in anchovy and sardine: a multi-proxy approach to understand trophic interactions in the NW Mediterranean pelagic ecosystem</p> <p>Authors: Eneko Bachiller, Joan Gimenez, Marta Albo-Puigserver, Elena Lloret, Jose Maria Bellido, Maria Grazia Pennino, Antonio Esteban, Neus Mari-Mena, Belén Carro, Marta Coll</p> <p>Keywords: sardine, anchovy, stomach contents, stable isotopes, DNA-metabarcoding, prey diversity, diet overlap.</p> <p>Presentation type: Oral</p>
14:48	<p>CM Code: K:122</p> <p>Title: How should DNA metabarcoding based food web data be integrated into marine ecosystem models?</p> <p>Authors: Naiara Rodriguez-Ezpeleta, Anders Lanzen, Iñaki Mendibil, Eneko Bachiller, Eider Andonegi, Unai Cotano</p> <p>Keywords: DNA metabarcoding, small pelagics, hake, trophic webs, gut contents, ecosystem-based approach, ecosystem models</p> <p>Presentation type: Oral</p>
15:00	<p>CM Code: K:490</p> <p>Title: Energy-based ecosystem modelling illuminates the ecological role of northeast Pacific herring</p> <p>Authors: Szymon Surma, Evgeny A. Pakhomov, Tony J. Pitcher</p> <p>Keywords: trophodynamics, ecosystem modelling, Ecopath with Ecosim, energy content, forage fish, Pacific herring, Clupea pallasii, northeast Pacific, Canada</p> <p>Presentation type: Oral</p>
15:12	<p>CM Code: K:210</p> <p>Title: Comparative study of food webs from two different time periods of Gulf of Maine ecosystem through network analysis</p> <p>Authors: Dongyan Han, Yong Chen, Siqian Tian</p> <p>Keywords: Gulf of Maine, Network analysis, Food web, Ecopath, American lobster</p> <p>Presentation type: Oral</p>
15:24	<p>CM Code: K:199</p> <p>Title: Food-web assessment models to support integrated ecosystem assessment</p> <p>Authors: Benjamin Planque, Christian Mullon</p> <p>Keywords: linear inverse modelling, trophic interactions, ecosystem-based fisheries management, food-web dynamics</p> <p>Presentation type: Oral</p>
15:36	<p>CM Code: K:115</p> <p>Title: An empirical approach to assess and understand drivers and trade-offs between multiple marine ecosystem functions</p> <p>Authors: Aurore Maureaud, Martin Lindegren</p> <p>Keywords: ecosystem functioning, fish communities, trade-offs, biodiversity</p> <p>Presentation type: Oral</p>

15:48

CM Code: K:416

Title: Isotopic niche variation in European plaice *Pleuronectes platessa*: diet, habitat or metabolic effect?

Authors: Timmerman Charles-André, Louise Day, Anik Brind'Amour, Pierre Cresson

Keywords: stables isotopes, turnover rates, ontogenetic shifts, individual diet variation

Presentation type: Oral

16:00

End of session

Posters

CM Code: K:106

Title: Discovering food web interactions in the ocean twilight zone: metabarcoding analysis of the diet of mesopelagic fishes

Authors: Melissa Wojcicki, Sarah Glancy, Joel K. Llopiz, Ann Bucklin

Keywords: mesopelagic fishes, food webs, metabarcoding, ocean twilight zone

Presentation type: Poster

CM Code: K:109

Title: Metabarcoding analysis of salp diets and trophic relationships in mesopelagic food webs

Authors: Paola G. Batta-Lona, Joel K. Llopiz, Annette Govindarajan, Ann Bucklin

Keywords: mesopelagic food webs, salps, metabarcoding, trophic relationships

Presentation type: Poster

CM Code: K:328

Title: Trophic structure and feeding behaviour of two co-occurring species of deep-sea sharks

Authors: Klara Jakobsdóttir, Jón Sólmundsson, Hildur Pétursdóttir

Keywords: trophic structure, stable isotope analysis, deepwater ecosystem, deep-water sharks, *Centroscyllium fabricii*, *Etmopterus princeps*

Presentation type: Poster

CM Code: K:493

Title: Combining stable isotope mixing models and a bioenergetics-based approach to spatialize the exploitation efficiency of juvenile demersal fish a coastal nursery

Authors: Louise Day, Pierre Cresson, Alexandra Engler, Hervé Le Bris, Anik Brind'Amour

Keywords: trophic capacity, juvenile fish, habitats, spatialization, stable isotopes

Presentation type: Poster