

Theme session A

Fisher collected acoustic data (FCAD)

Conveners: Steve Barbeau (USA) Martin Pastoors (the Netherlands) Sascha Fässler (the Netherlands)

Monday 19 September 2016, 15:00-19:00, Omega 2

Monday 19 September 2016

15:00	Introduction to session
15:05	CM Code: A:571 Title: Acoustic data collected by fishing vessels on Chilean Jack mackerel aggregations and spatio-temporal patterns of abundance in the South Pacific region Authors: Aquiles Sepúlveda, Nicolás Alegría Keywords: Fishing vessels, acoustics, Jack mackerel, oceanographic events Presentation type: Oral
15:19	CM Code: A:613 Title: Quantitative acoustic monitoring using fishing vessels in the northern region of the Humboldt Current system Authors: Mariano Gutiérrez, Anibal Aliaga, Salvador Peraltilla, Alex Zuzunaga, Edwin Yarleque (Hayduk), Emilio Mendez, Cynthia Vasquez, Ricardo Bernales, Ulises Munaylla, Francois Gerlotto Keywords: Quantitative monitoring, acoustics, fishing vessels, management Presentation type: Oral
15:33	CM Code: A:585 Title: Assessing prey distribution: A collaborative acoustic survey Authors: J. Chawarski, A. Baukus, C. Brown, G. Sherwood, K. Wurtzell Keywords: Acoustics, herring, forage, prey Presentation type: Oral
15:47	CM Code: A:602 Title: Acoustic data obtained from a fishing vessel searching Chilean Jack mackerel at the high sea off South Central Chile during years 2009–2010 Authors: Nicolás Alegría, Aquiles Sepúlveda Keywords: Acoustics, searching vessel, adaptive strategy, oceanographic events, ecosystem approach Presentation type: Oral
16:01	CM Code: A:404 Title: Fifteen years of acoustic data from vessels of opportunity in the North Pacific Authors: Steven J. Barbeau, Martin Dorn, Taina Honkalehto, Paul von Szalay Keywords: Acoustic vessels of opportunity, co-management, cooperative research, fisheries acoustics Presentation type: Oral
16:15	CM Code: A:233 Title: The distribution of key species in the NDSF (Western Australia) Authors: Sven Gastauer, Miles Parsons Keywords: Fisheries acoustics, demersal fish, commercial data, optical measurements, TS estimates Presentation type: Oral
16:29	CM Code: A:436 Title: Harnessing fishing vessel acoustics for stock assessment – 10 years later Authors: Taina Honkalehto, Patrick Ressler, Jim Ianelli, Sarah Stienessen, Nathan Lauffenburger Keywords: Acoustic backscatter, fishing vessels, walleye pollock, stock assessment Presentation type: Oral
16:41	CM Code: A:343 Title: Variation of relative abundance and spatial distribution of Jack mackerel (<i>Trachurus murphyi</i> , Nichols, 1920) offshore in the South Central of Chile Authors: Carolina Lang, Javier Legua Delgado, Alan Barraza Saez Keywords: <i>T. murphyi</i> , reproductive period, fishing vessels data, spatial indexes, aggregations and eggs Presentation type: Oral
16:55	CM Code: A:609 Title: Maintaining commitment: Best-practices in setting up industry-science partnerships that last and that matter Authors: Steve Mackinson, R.L. Stephenson, M. Kraan, M.A. Pastoors Keywords: Industry acoustics, collaboration, best practice, incentives Presentation type: Oral
17:09	CM Code: A:548 Title: Monitoring of abundance and distribution of South Pacific Jack mackerel (<i>Trachurus murphyi</i>) in the Northern Humboldt current system using fishing vessels Authors: Salvador Peraltilla, Mariano Gutiérrez, Anibal Aliaga, Alex Zuzunaga, Edwin Yarleque, Emilio Mendez, Cynthia Vasquez, Ricardo Bernales, Ulises Munaylla, Francois Gerlotto Keywords: Population, abundance, acoustics, fishing vessels, management Presentation type: Oral
17:23	CM Code: A:466 Title: Counting and sizing of bluefin tuna schools by automated analysis of sonar images and data extracted from fishing vessels Authors: Jon Uranga, Haritz Arrizabalaga, Maria Carmen Hernandez, Guillermo Boyra, Nicolas Goñi

Keywords: Sonar, fishing vessel data, automated analysis, school counting and sizing, bluefin tuna

Presentation type: Oral

17:37	<p>CM Code: A:633 Title: Key lessons learned from opportunistic acoustic data collection on board pelagic freezer-trawlers Authors: S.M.M. Fässler, M.A. Pastoors, B. Scoulding, S. Gastauer, P. Petitgas Keywords: Industry acoustics, calibration, opportunistic data collection, analyses, predator-prey Presentation type: Oral</p>
17:51	<p>CM Code: A:552 Title: Comparison of the quantitative measure of fish abundance observed by fishing and scientific vessels in the northern region of the Humboldt Current system Authors: Anibal Aliaga, Salvador Peraltilla, Emilio Méndez, Mariano Gutiérrez, Ricardo Bernales, Ulises Munaylla, Alex Zuzunaga, Edwin Yarleque, Cynthia Vásquez, Francois Gerlotto Keywords: Quantitative monitoring, acoustics, fishing vessels, abundance Presentation type: Oral</p>
18:05	<p>CM Code: A:608 Title: Development of an industry acoustic survey for 6a-7bc herring Authors: Pastoors, M.A., S.M.M. Fässler, S.M. Lusseau, E. Farrell, M. Clarke, S. Mackinson, A. Wiseman, M. Callaghan, V. Ohms Keywords: Industry acoustic survey, herring, west of Scotland Presentation type: Oral</p>
18:19	<p>CM Code: A:341 Title: Modelled day-night biases in spatial structure of Jack mackerel (<i>Trachurus murphyi</i>) in Chile Authors: Jorge Paramo, Carolina Lang Abarzúa, Sergio Lillo Vega Keywords: Jack mackerel, diel fish school behavior, variogram, fishing vessels data Presentation type: Oral</p>
18:33	<p>CM Code: A:193 Title: How can we gain? Potential ways to use opportunistic industry acoustic data to improve stock assessments and scientific advice Authors: V. M. Trenkel, M.A. Pastoors, P. Fernandes, S. Fässler Keywords: Adaptive survey design, opportunistic data collection, acoustic data Presentation type: Oral</p>
18:47	Discussion and wrap-up
19:00	End of session

Theme session B

Predictably Irrational – a new scientific research field for the science underpinning marine-resource management

Conveners: Sarah B. M. Kraak (Germany) Dorothy J. Dankel (Norway)

Wednesday 21 September 2016, 08:30-10:00, Beta 2

Wednesday 21 September 2016, 10:30 - 13:30, Beta 2

Wednesday 21 September 2016

08:40 Introduction to session

CM Code: B:500

Title: Risks associated with cognitive biases in fisheries management and policy making

08:45 Authors: Mike Fitzpatrick

Keywords: Cognitive biases, irrationality, mental models, fisheries policy

Presentation type: Oral

CM Code: B:344

Title: Nudging fishing behavior to optimize cod catches

09:00 Authors: E. van Helmond, N. Steins, C. Chen, B. Trapman, M. Kraan, J.J. Poos

Keywords: Catch quota management, fishing behaviour, nudging, technical measures, fisheries management, cod

Presentation type: Oral

CM Code: B:366

Title: A trip to reach the target: The labour supply of Swedish Baltic cod fishermen

09:15 Authors: Cecilia Hammarlund

Keywords: Behavioral economics, revenue, targeting labour supply

Presentation type: Oral

CM Code: B:428

Title: Using behavioral experiments to understand preferences with regard to risk, patience, and cooperation in Norwegian fisheries

09:30 Authors: Andries Richter, Florian Diekert, Linda Nøstbakken

Keywords: Risk, economic experiments, trust, cooperation, behavior

Presentation type: Oral

CM Code: B:361

Title: Monitoring networks in a common pool resource dilemma: experimental evidence on extraction, punishment and beliefs

09:45 Authors: Ganga Shreedhar, Alessandro Tavoni, Carmen Marchiori

Keywords: Common pool resources, social dilemma, monitoring, punishment, networks, beliefs

Presentation type: Oral

10:00 Coffee break

CM Code: B:648

Title: The Celtic Seas Partnership

10:30 Authors: Penny Wilson

Keywords: MSFD, Celtic Seas Partnership

Presentation type: Oral

CM Code: B:544

Title: Are we missing anything important? (presented by Sebastian Uhlmann)

10:45 Authors: Arne Kinds, Katrien Verlé

Keywords: Fisheries management, perceptions and beliefs, interviews, questionnaire, drivers

Presentation type: Oral

CM Code: B:524

Title: The influence of cryptic cognitive diversity on the productivity of scientific teams

11:00 Authors: Phillip Levin, Christian Möllmann, Steven Gray, Maria Claudia Lopez, Adrian Stier

Keywords: Mental model, fuzzy-logic cognitive mapping, behavioral economic experiment, Baltic Sea, diversity

Presentation type: Oral

CM Code: B:291

Title: INTERACTIVE SESSION Choice architecture.

11:15 Authors: Sarah B. M. Kraak, Dorothy J. Dankel

Keywords: behavioural economics, choice architecture,

Presentation type: Oral

CM Code: B:101

Title: Truth-telling to the Regulator? Evidence from a field experiment with commercial fishermen

11:45 Authors: Moritz A. Drupp, Menusch Khadjavi, Martin F. Quaas

Keywords: Truth-telling, lying, field experiment, fishermen, regulation

Presentation type: Oral

CM Code: B:254

Title: A further study on truth-telling

12:00 Authors: Rudi Voss, Martin F. Quaas, Jörn O. Schmidt, Moritz A. Drupp, Marie C. Riekhof, Menush Khadjav, Catriona Clemmesen

Keywords: Professional identity, coin tossing, priming, management approaches, behavioural economics

Presentation type: Oral

12:15 **CM Code:** B:293
Title: Carrot or stick? Experimental tests on a potential trade-off between effectiveness and compliance of alternative management approaches
Authors: Sarah B. M. Kraak, Moritz A. Drupp, Martin Quaas
Keywords: Behavioural economics, carrot versus stick, cheating, loss aversion, regulatory compliance
Presentation type: Oral

12:30 **CM Code:** B:292
Title: To nudge or not to nudge: a debate on the ethical pros and cons of 'soft paternalism'
Authors: Sarah B. M. Kraak, Nathalie Steins
Keywords: Behavioural economics, ethics, manipulation, nudge, paternalism
Presentation type: Oral

12:45 Discussion

13:00 End of session

Posters

CM Code: B:357
Title: Choice under risk, choice under uncertainty: Science advice meets behavioral science
Authors: Dorothy J. Dankel
Keywords: Climate modelling, climate change, catch tables, uncertainty, science-policy interface, decision-making under uncertainty, post-normal science, uncertainty communication, behavioural science, nudging, precautionary approach, sustainable development, fisheries quotas, TACs
Presentation type: Poster

Theme session C

From individuals to ecosystems: their ecology and evolution

Conveners: Anna Kuparinen (Finland) Anne Maria Eikeset (Norway) Silva Uusi-Heikkilä (Finland)

Tuesday 20 September 2016, 10:00-13:00, Omega 2

Tuesday 20 September 2016, 15:00-16:30, Omega 2

Tuesday 20 September 2016, 17:00-18:00, Omega 2

Wednesday 21 September 2016, 08:30-10:00, Omega 2

Wednesday 21 September 2016, 10:30 -12:00, Omega 2

Tuesday 20 September 2016

10:00	Introduction to session
	CM Code: C:58 Title: A long-term perspective of the role and relevance of life-history questions in fisheries research
10:10	Authors: Paul J. B. Hart Keywords: Life histories, growth, recruitment, sustainability Presentation type: Oral
	CM Code: C:259 Title: The relative impacts of early life conditions and maternal size effects in determining average fitness and population growth of pike
10:40	Authors: Yngvild Vindenes, Øystein Langangen, Ian J. Winfield, Asbjørn Vøllestad Keywords: Maternal effects, early life effects, demography, life history, population dynamics, elasticity analysis, integral projection model Presentation type: Oral
	CM Code: C:470 Title: From traits to life history strategies: deconstructing fish community composition in European Seas
10:55	Authors: Laurene Pecuchet, Martin Lindegren, Manuel Hidalgo, Jon Solmundsson, Marina Delgado, Heino Fock, Mark Payne Keywords: Fish life history, communities, traits, trade-offs, environment Presentation type: Oral
	CM Code: C:152 Title: Spatio-temporal changes in life-history traits of the North Sea fish community under climate change and fishing
11:10	Authors: Esther Beukhof, Tim Spaanheden Dencker, Lauréne Pécuchet, Martin Lindegren Keywords: Life-history traits, fish, community, North Sea, climate change, fishing Presentation type: Oral
	CM Code: C:56 Title: Assessing fishery and ecological consequences of alternate management options for multispecies fisheries using an ensemble approach
11:25	Authors: Robert B. Thorpe, Paul J. Dolder, Stuart A. Reeves, Peter Robinson, Simon Jennings Keywords: LFI, mixed, multispecies, fisheries, North Sea, trade-off, risk, indicator, uncertainty Presentation type: Oral
	CM Code: C:283 Title: Exploring fish community stability in time and space using Taylor's Law
11:40	Authors: Matthew R. D. Cobain, Markus Brede, Clive Trueman Keywords: Fluctuation scaling, mean-variance scaling, power law, community stability, aggregation, ecosystem metric Presentation type: Oral
	CM Code: C:403 Title: Ecosystem responses to changes in life-history parameters of key species in the Barents Sea
11:55	Authors: Cecilie Hansen, Ken Drinkwater, Anne Jähkel, Beth Fulton, Bec Gorton, Mette Skern-Mauritzen Keywords: End-to-end models, Atlantis, Barents Sea, life history parameters, sensitivity study Presentation type: Oral
	CM Code: C:383 Title: Three decades of spatio-temporal patterns of taxonomic and functional diversity in the North Sea fish community
12:10	Authors: Tim Spaanheden Dencker, Martin Lindegren, Mark Payne Keywords: Biodiversity, functional diversity, traits, life history traits, marine ecosystems, fishing pressure Presentation type: Oral
	CM Code: C:70 Title: Population differentiation and life history diversification: rapid and small scale?
12:25	Authors: Leif Asbjørn Vøllestad Keywords: Population genetics, local adaptation, rapid evolution, gene flow, climate Presentation type: Oral
	CM Code: C:61 Title: Life-history correlates of depensation in marine fishes
12:40	Authors: Jeffrey A. Hutchings Keywords: Depensation, Allee effects, recovery, population thresholds, life history Presentation type: Oral
12:55	Discussion

13:00	Lunch break
15:00	<p>CM Code: C:95 Title: Population dynamic models based on individual energy budgets lead to counterintuitive fisheries predictions Authors: André M. de Roos, Floor Soudijn Keywords: Size-structured population models, individual energetics, predator-prey interactions, population size-structure, ontogeny, food-dependent somatic growth Presentation type: Oral</p>
15:15	<p>CM Code: C:509 Title: Higher vulnerability and lower resilience of fish in estuaries worldwide matches higher exposure to human threats Authors: Sofia Henriques, Marisa Batista, Henrique N. Cabral, Rita P. Vasconcelos Keywords: Functional diversity, traits, biodiversity loss, ecosystem functioning, ecosystem services Presentation type: Oral</p>
15:30	<p>CM Code: C:72 Title: Demonstrating the influence of temperature dependent vital rates on fish abundances through hierarchical Bayesian models Authors: Cecilia O'Leary, Janet Nye Keywords: Modelling, Bayesian, temperature Presentation type: Oral</p>
15:45	<p>CM Code: C:57 Title: Late-in-life density-dependence: catching smaller fish for higher yields Authors: Rob van Gemert, Ken Haste Andersen Keywords: Density-dependence, fisheries, size-based modelling, reference points, management Presentation type: Oral</p>
16:00	<p>CM Code: C:214 Title: Life-history and ecosystem responses to non and size-selective perch fishing in a small forest lake Authors: Mikko Olin, Satu Estlander, Leena Nurminen, Martti Rask, Hannu Lehtonen Keywords: Perch, Perca fluviatilis, size-selective fishing, ecosystem effects Presentation type: Oral</p>
16:15	<p>CM Code: C:349 Title: How is ecosystem function in the Barents Sea responding to a warming Arctic? Authors: André Frainer, Raul Primicerio, Magnus Wiedmann, Susanne Kortsch, Andrey Dolgov, Michaela Aschan Keywords: Fish functional composition, functional traits, Barents Sea, warming waters Presentation type: Oral</p>
16:30	Coffee break
17:00	<p>CM Code: C:342 Title: Feeding and growth potential of Atlantic cod in the Baltic Sea in the wake of climate change Authors: Stefan Neuenfeldt, Valerio Bartolino, Alessandro Orio, Ken Haste Andersen, Niels Gerner Andersen, Susa Niiranen, Ulf Bergström, Didzis Ustups, Maris Plikshs, Dana Uzars, Michele Casini Keywords: Baltic cod, feeding, growth, density-dependence, climate change Presentation type: Oral</p>
17:15	<p>CM Code: C:290 Title: Phenological responses to climate and fishing – changes in maturation cycles and spawning time in a depleted cod population Authors: Maris Plikshs, Christian Möllmann Keywords: Condition, environmental change, growth, maturation, phenology spawning time, size-selective fishing Presentation type: Oral</p>
17:30	Speed poster presentations
18:00	End of day
Wednesday 21 September 2016	
08:30	<p>CM Code: C:63 Title: Ecosystem feedbacks of selective fishing and changes in fish life-histories Authors: Anna Kuparinen, Alice Boit, Fernanda S. Valdovinos, H�el�ene Lassaux, Neo D. Martinez Keywords: foodweb, life histories, fishing-induced evolution, ecosystem resilience Presentation type: Oral</p>
08:45	<p>CM Code: C:130 Title: Multi-decadal changes in spawning ground use in Northeast Arctic haddock: Climate or harvest induced? Authors: Øystein Langangen, Kristina Ø. Kvile, Leif Chr. Stige, Natalia Yaragina, Frode B. Vikeb�, Nils Chr. Stenseth, Geir Ottersen Keywords: Haddock, spawning, harvesting, climate warming Presentation type: Oral</p>
09:00	<p>CM Code: C:566 Title: Fishing, fast growth, and climate variability increase the risk of collapse Authors: Malin L. Pinsky, David Byler Keywords: Cumulative impacts, ecosystem-based management, population dynamics, conservation, coupled social-ecological systems Presentation type: Oral</p>
	CM Code: C:270

09:15	<p>Title: Fisheries-induced selection on fish personality traits – encountering the gear is a necessary, yet insufficient, condition for determining vulnerability to angling in three freshwater fish species in the wild</p> <p>Authors: Christopher T. Monk, Robert Arlinghaus</p> <p>Keywords: Behavioural selection, telemetry, perch, common carp, tench, fish personality</p> <p>Presentation type: Oral</p>
09:30	Speed poster presentations
10:00	Coffee break
10:30	<p>CM Code: C:387</p> <p>Title: How do migratory populations persist under pressure?</p> <p>Authors: Catalina Chaparro, André M. de Roos</p> <p>Keywords: Migration, persistence, food abundance, cost of migration</p> <p>Presentation type: Oral</p>
10:45	<p>CM Code: C:452</p> <p>Title: Angling-induced selection mediated by fish behaviour – implications for reproductive potential in Eurasian perch (<i>Perca fluviatilis</i>)</p> <p>Authors: Laura Härkönen, Pekka Hyvärinen, Nico Alioravainen, Anssi Vainikka</p> <p>Keywords: Fisheries-induced evolution, fishing selectivity, behaviour, life history, reproduction</p> <p>Presentation type: Oral</p>
11:00	<p>CM Code: C:60</p> <p>Title: The molecular mechanisms of fisheries-induced evolution</p> <p>Authors: Silva Uusi-Heikkilä, Tiina Sävilamm, Erica Leder, Robert Arlinghaus, Craig R. Primmer</p> <p>Keywords: Gene expression, fisheries-induced evolution, transcriptome sequencing, size selection, adaptation</p> <p>Presentation type: Oral</p>
11:15	<p>CM Code: C:66</p> <p>Title: Exploring adaptive and plastic variability in growth and maturation for the cutlassfish <i>Trichiurus japonicus</i> in subtropical Pacific</p> <p>Authors: Hui-Yu Wang, Mikko Heino</p> <p>Keywords: Cutlassfish, countergradient growth, probabilistic maturation reaction norms, fisheries exploitation</p> <p>Presentation type: Oral</p>
11:30	Discussion and wrap-up
12:00	End of session
Posters	
	<p>CM Code: C:149</p> <p>Title: Integrating interannual diet variability in ecosystem models</p> <p>Authors: L. Lopez-Lopez, I. Preciado</p> <p>Keywords: Diet variability, EwE, internal forcing, ecosystem stability</p> <p>Presentation type: Poster</p>
	<p>CM Code: C:59</p> <p>Title: Body reserves mediate trade-offs between life history traits: new insights in small pelagic fish reproduction</p> <p>Authors: Pablo Brosset, Jean-Marc Fromentin, Claire Saraux</p> <p>Keywords: Maternal effect, life history, trade-off, anchovy, sardine, NW Mediterranean</p> <p>Presentation type: Poster</p>
	<p>CM Code: C:86</p> <p>Title: Seasonal dynamics in the diet of pelagic fish species in the western Baltic Sea: are three-spined sticklebacks important food competitors for sprat and herring?</p> <p>Authors: Eglė Jakubavičiūtė, Michele Casini, Linas Ložys, Jens Olsson</p> <p>Keywords: Kalmar Sound, three-spined stickleback, sprat, herring, diet</p> <p>Presentation type: Poster</p>
	<p>CM Code: C:109</p> <p>Title: What can we learn about changes in coastal food web structure after the round goby invasion?</p> <p>Authors: Artūras Skabeikis, Rasa Morkūnė, Andrius Šiaulys, Jūratė Lesutienė</p> <p>Keywords: Round goby, blue mussel, long-tailed duck, food web, Baltic Sea</p> <p>Presentation type: Poster</p>
	<p>CM Code: C:111</p> <p>Title: Ticket to spawn: Using economic data to shed light on biological hypothesis</p> <p>Authors: Leonie Färber, Leif Chr. Stige, Joël Durant, Florian K. Diekert, Øystein Langangen</p> <p>Keywords: Spawning, NEA cod, size distribution, demographic effects, climate effects</p> <p>Presentation type: Poster</p>
	<p>CM Code: C:167</p> <p>Title: Can individual-based models of European seabass provide useful insights into the management of the European seabass (<i>Dicentrarchus labrax</i>)?</p> <p>Authors: Kieran Hyder, Claire Beraud, Johan van der Molen, Leila Fonseca, Ewan Hunter, Mike Armstrong</p> <p>Keywords: Social-ecological models, marine policy, marine management</p> <p>Presentation type: Poster</p>
	<p>CM Code: C:225</p>

Title: Using maturity data to determine the suitability of the timing of the Atlantic cod spawning closure in NAFO Subdivision 3Ps
Authors: R. M. Rideout, M. J. Morgan, J. Vigneau
Keywords: Cod, spawning, spawning closure, maturity, histology
Presentation type: Poster

CM Code: C:287
Title: Habitat selection and phenotypic diversity in the anchovy of the Bay of Biscay
Authors: Pierre Petitgas, Patrick Grellier, Floriane Leseur
Keywords: Allozymes, otoliths, habitats, spatial distribution, anchovy
Presentation type: Poster

CM Code: C:288
Title: How are pelagic fish populations impacted by food availability? An Individual-Based Modelling approach
Authors: Rob Boyd, Shovonlal Roy, Richard Sibly, Kieran Hyder, Robert Thorpe
Keywords: Pelagic fish, individual-based model, remote-sensing, bioenergetics
Presentation type: Poster

CM Code: C:397
Title: Where are you going, cod?
Authors: Nataliia Kulatska, Valerio Bartolino, Bjarki Elvarsson, Gunnar Stefansson
Keywords: Baltic Sea, cod, Gadus morhua, population dynamics, fisheries, spatio-temporal dynamics, migration patterns
Presentation type: Poster

CM Code: C:423
Title: Interplay of stock productivity and fishing activity leading to fisheries collapse
Authors: Anna-Marie Winter, Andries Peter Richter, Anne Maria Eikeset
Keywords: Allee effect, productivity function, balanced harvesting, age-structured model
Presentation type: Poster

CM Code: C:456
Title: Effects of life-history and fishing pressure on the genetic structure and effective population size through time: a tale on two coastal marine species
Authors: Sara M Francisco, Joana I. Robalo
Keywords: Population genetics, planktonic larval dispersion, temporal structure, effective population size, commercial vs non-commercial species
Presentation type: Poster

CM Code: C:471
Title: Distribution and time-trends of life history strategies in the North Sea: a multi-trophic approach
Authors: Laurene Pecuchet, Mark Payne, Olivier Beauchard, Esther Beukhof, Philipp Brun, William Cheung, Tim Dencker, Daniel van Denderen, Priscilla Licandro, Gabriel Reygondeau, Anna Törnroos, Martin Lindegren
Keywords: life histories, multi-trophic, traits, trade-offs, climate
Presentation type: Poster

CM Code: C:513
Title: Decoupling of otolith and somatic growth during migration of northern form Dolly Varden (*Salvelinus malma malma*)
Authors: Kimberly L. Howland, Christie Morrison, Colin Gallagher, Keith Tierney
Keywords: Life history, growth, otolith microchemistry, char, anadromous, resident
Presentation type: Poster

Theme session D

Ecosystem changes and impacts on diadromous and marine species productivity

Conveners: Timothy Sheehan (USA) Katherine Mills (USA) Mark Payne (Denmark)

Wednesday 21 September 2016, 12:00 - 13:30, Omega 2

Thursday 22 September 2016, 10:00 - 13:30, Omega 2

Thursday 22 September 2016, 15:00-16:30, Omega 2

Thursday 22 September 2016, 17:00-18:30, Omega 2

Wednesday 21 September 2016

12:00 Introduction to session

CM Code: D:534

Title: Impacts of climate and ecosystem change on fish and fisheries in the North Atlantic

12:05 Authors: Katherine E. Mills, Andrew J. Pershing, Timothy F. Sheehan, Mark Payne

Keywords: Climate, ecosystem conditions, fish, fisheries, North Atlantic

Presentation type: Oral

CM Code: D:124

Title: Environmental impacts on the marine ecosystems of the North Sea, highlights from a new book chapter

12:20 Authors: Geir Ottersen, Keith Brander

Keywords: North Sea, climate impact, ecology, NOSCCA

Presentation type: Oral

CM Code: D:347

Title: A Bayesian life cycle model to unravel changes in the marine productivity of Atlantic salmon population in the North Atlantic Ocean

12:35 Authors: M. Olmos, F. Massiot-Granier, E. Prévost, M. Nevoux, G. Chaput, E. Rivot

Keywords: Atlantic salmon, Bayesian hierarchical model, integrated population models, life cycle, population dynamics, life history traits

Presentation type: Oral

CM Code: D:455

Title: Meta-analysis of freshwater productivity: a contribution to the modeling of Atlantic salmon (*Salmo salar*) population dynamics at the scale of stock complexes

12:50 Authors: F. Massiot-Granier, V. Bret, M. Olmos, E. Prévost, G. Chaput, E. Rivot

Keywords: Atlantic salmon, stock recruitment, freshwater productivity, hierarchical modeling, Meta-analysis

Presentation type: Oral

CM Code: D:413

Title: Impact of rapid warming on cod stocks in the Gulf of Maine

13:05 Authors: Andrew J. Pershing, Michael A. Alexander, Lisa A. Kerr, Arnault Le Bris, Katherine E. Mills, Janet A. Nye, Nicholas R. Record, Graham D. Sherwood, Andrew C. Thomas

Keywords: Cod, climate, Gulf of Maine, North Atlantic

Presentation type: Oral

13:20 Panel discussion

13:30 End of day

Thursday 22 September 2016

CM Code: D:614

Title: Length of Atlantic salmon smolt and their subsequent marine survival

10:00 Authors: Stephen Gregory, Rasmus Lauridsen, William Beaumont, William Riley

Keywords: Atlantic salmon, smolt, length, survival, environmental variables, sea surface temperature

Presentation type: Oral

CM Code: D:531

Title: Climate and ecosystem influences on fish body size and growth

10:15 Authors: Katherine E. Mills, Andrew J. Pershing, Timothy F. Sheehan

Keywords: Climate impacts, ecosystem conditions, body size, growth

Presentation type: Oral

CM Code: D:115

Title: Environmentally-driven fluctuations in condition factor of adult Gulf Menhaden (*Brevoortia patronus*) in the northern Gulf of Mexico

10:30 Authors: Grant D. Adams, Robert T. Leaf

Keywords: Gulf Menhaden, *Brevoortia patronus*, relative condition factor, environmental drivers, Mississippi River discharge, El Niño southern oscillation, generalized additive model, hierarchical linear model

Presentation type: Oral

CM Code: D:236

Title: Changing trophic structure and energy dynamics in the Northwest Atlantic influences Atlantic salmon abundance

10:45 Authors: Timothy F. Sheehan, Mark D. Renkawitz, Katherine E. Mills, Heather J. Dixon, Rasmus Nygaard

Keywords: Northwest Atlantic, Greenland, Atlantic salmon, capelin, diet, food quality, energy density

Presentation type: Oral

11:00	<p>CM Code: D:384 Title: Individual trajectories and population dynamics shape life history of Atlantic salmon Authors: Catalina Chaparro, Andre M. de Roos Keywords: Atlantic salmon, migration, population dynamics, life–history traits Presentation type: Oral</p>
11:15	Discussion
11:30	<p>CM Code: D:394 Title: Ecosystem effects on productivity of northern shrimp in the Gulf of Maine: hypotheses for a population collapse Authors: Anne Richards, Michael Fogarty, Margaret Hunter, Kimberly Hyde, John O'Reilly Keywords: marine productivity, temperature effects, NAO, northern shrimp, early life survival, bloom phenology, match-mis-match, predation Presentation type: Oral</p>
11:45	<p>CM Code: D:594 Title: Ecological and management implications of climate change induced shifts in phenology of coastal fish and wildlife species in the Northeast region Authors: A. Jordaan, M. Staudinger, K. Alexander Keywords: Climate, phenology, migration, trophic mismatches Presentation type: Oral</p>
12:00	<p>CM Code: D:53 Title: Spatially-resolved influence of temperature and salinity on stock and recruitment variability of commercially important fishes in the North Sea Authors: Anna Akimova, Ismael Nunez-Riboni, Alexander Kempf Keywords: North Sea, temperature, salinity, commercially important fishes, recruitment, stock biomass Presentation type: Oral</p>
12:15	<p>CM Code: D:191 Title: Effect of juvenile distribution and environment on Northeast Arctic haddock Authors: Joël M. Durant, Geir Ottersen Keywords: Population growth, haddock, distribution, demographic effects, climate effects Presentation type: Oral</p>
12:30	<p>CM Code: D:529 Title: Is it too hot for Summer? Identifying the impact of spatial oceanographic anomalies (sea surface temperature) on the Summer flounder (<i>Paralichthys dentatus</i>) in the U.S. Mid-Atlantic Bight Authors: Samar Deen, Patrick Sullivan Keywords: Summer flounder, ocean warming Presentation type: Oral</p>
12:45	<p>CM Code: D:597 Title: Bioclimate envelope model to evaluate impacts of climate change on <i>Placopecten magellanicus</i> in the Gulf of Maine Authors: Mike Torre, Kisei Tanaka, Yong Chen Keywords: Bioclimate envelope, sea scallops, habitat suitability Presentation type: Oral</p>
13:00	Panel discussion
13:15	Lunch break
15:00	<p>CM Code: D:137 Title: Predatory impact on Patagonian squid after sudden range expansion of Argentine squid Authors: Alexander Arkhipkin, Tomasz Zawadowski, Zhanna Shcherbich, Andreas Winter Keywords: <i>Doryteuthis gahi</i>, Falkland Islands, <i>Illex argentinus</i>, predation, recruitment Presentation type: Oral</p>
15:15	<p>CM Code: D:216 Title: Human-induced changes in the functioning of marine food webs: towards less productive and more unstable ecosystems? Authors: Aurore Maureaud, Didier Gascuel, Mathieu Colléter, Deng Palomares, William W.L. Cheung Keywords: Fishing and climate change impacts, transfer efficiency, food webs functioning, ecosystem productivity, trophodynamic approach Presentation type: Oral</p>
15:30	<p>CM Code: D:536 Title: Going with the flow: Employing network analysis to explore Northeast US shelf ecosystem consequences of alternative anadromous forage biomass scenarios. Authors: Beatriz S. Dias, Adrian Jordaan Keywords: Anadromous fish, marine ecosystem, network analysis Presentation type: Oral</p>
15:45	<p>CM Code: D:595 Title: What four years of ecosystem modeling using historical data has told us about changes to the northwestern Atlantic ecosystem Authors: A. Jordaan, E. S. Klein, K. Alexander, W. B. Leavenworth, S. Mattocks, B. Dias, M.G. Frisk Keywords: Historical ecology, ecosystem function, fisheries yields Presentation type: Oral</p>

16:00	<p>CM Code: D:406 Title: Integrating the effects of environmental variability in models of population dynamics of Atlantic herring stocks in the Gulf of St. Lawrence, Canada Authors: Thomas Doniol-Valcroze, Stéphane Plourde, Caroline Lehoux, Peter S Galbraith, Martin Castonguay Keywords: Physical environmental conditions, zooplankton dynamics, Atlantic herring, statistical catch-at-age models, recruitment, Gulf of St. Lawrence Presentation type: Oral</p>
16:15	<p>CM Code: D:618 Title: Understanding and adapting to effects of climate change on groundfish stocks and stock assessments Authors: J. Kritzer, J.P. Kritzer, S.L. Smith, M. Burden, C. Costello, E. Klein, T. Mangin, R. O'Boyle Keywords: Climate change, harvest control rules, groundfish, stock assessment, retrospective Presentation type: Oral</p>
16:30	Coffee break
17:00	<p>CM Code: D:284 Title: Multispecies modelling with correlated Gaussian processes priors Authors: Marcelo Hartmann, Geoffrey R. Hosack, Richard M. Hillary, Jarno Vanhatalo Keywords: Ricker model, stock-recruitment relationship, Weaver Creek spawning channel, Gaussian process models, Bayesian nonparametrics Presentation type: Oral</p>
17:15	<p>CM Code: D:540 Title: Adaptive fishery management strategies under climate change Authors: Chris Costello, Steve Gaines, Ben Halpern, Tracey Mangin, Renato Molina, Dan Ovando, Kent Strauss Keywords: Upside model, stock distribution, quota allocation, harvest control rules, climate change Presentation type: Oral</p>
17:30	Panel discussion
17:45	Discussion and wrap-up
18:30	End of session

Posters

	<p>CM Code: D:181 Title: Marine protected areas limit the spread of the invasive tunicate <i>Didemnum vexillum</i> on Atlantic sea scallop <i>Placopecten magellanicus</i> habitat on Georges Bank Authors: Katherine Kaplan, Patrick Sullivan, Deborah Hart Keywords: Biological invasions, fisheries, essential fish habitat, vessel-towed underwater camera system, invasive ascidians Presentation type: Poster</p>
	<p>CM Code: D:205 Title: Mitigating the impact of hydropower plants on diadromous species: Latvenergo AS (Latvia) experience Authors: Latvenergo AS, Alona Bolonina Keywords: Hydropower, the Daugava River, Atlantic salmon, diadromous species Presentation type: Poster</p>
	<p>CM Code: D:251 Title: Sea trout (<i>Salmo trutta</i> L.) restocking in Latvia Authors: Ilze Rutkovska, Ruta Medne Keywords: Thyroid hormones, morphology, smoltification, silvering Presentation type: Poster</p>
	<p>CM Code: D:289 Title: Smoltification hormone level changes in Salmons subjected for restocking in Latvia Authors: Ruta Medne, Santa Purvina, Ilze Rutkovska Keywords: salmon, restocking, hormone Presentation type: Poster</p>
	<p>CM Code: D:482 Title: Development and application of a generic method to assess species exploratory potential under climate change: focus on the exploration phase of anadromous fish Authors: Felix Massiot-Granier, Rougier Thibaud, Lambert Patrick, Rosebery Juliette, Rochard Eric, Lassalle Géraldine Keywords: Climate change, range shift, exploration phase, participative method, composite metric, migratory species Presentation type: Poster</p>

Theme session E

The emerging science of ecological multimodel inference for informing fisheries management

Conveners: Phillip Levin (USA) Stefan Neuenfeldt (Denmark) Tessa Francis (USA)

Tuesday 20 September 2016, 15:00-16:30, Beta 2

Tuesday 20 September 2016, 17:00-18:00, Beta 2

Tuesday 20 September 2016

15:00	Introduction
15:05	<p>CM Code: E:415 Title: A multi-model approach to incorporating traditional ecological knowledge and human dimensions into Pacific herring management: an Ocean Modeling Forum case study Authors: Tessa B Francis, Phillip S. Levin Keywords: forage fish, herring, ecosystem-based management, human dimensions, TEK Presentation type: Oral</p>
15:25	<p>CM Code: E:395 Title: Performance of catch-only models and ensembles at providing management guidance for unassessed data-limited fish stocks Authors: Jessica C. Walsh, Sean Anderson, Ernesto Jardim, C��il��n Minto, Olaf Jensen, James Thorson, Jamie Afflerbach, Giacomo Chato Osio, Mark Dickey-Collas, Kristin Kleisner, Catherine Longo, Elizabeth Selig, Katherine Papacostas, John Kittinger, Andrew Rosenberg, Andrew Cooper Keywords: super-ensemble, catch-only model, management strategy evaluation, data-limited, value of information Presentation type: Oral</p>
15:45	<p>CM Code: E:662 Title: What would happen if we were to stop fishing in the North Sea? A model ensemble approach Authors: Michael A. Spence, Paul G. Blackwell, Julia L. Blanchard Keywords: Model ensemble, Bayesian analysis, Uncertainty analysis Presentation type: Oral</p>
16:05	<p>CM Code: E:443 Title: Identifying robust approaches for projecting North Pacific groundfish population dynamics using multiple models for linkages between recruitment and the environment Authors: Ashley E. Weston, Gavin Fay, Carey McGilliard Keywords: Gulf of Alaska, climate change, fisheries management, stock assessment, model selection Presentation type: Oral</p>
16:25	Discussion
16:30	Coffee break
17:00	<p>CM Code: E:656 Title: The collective story: communicating results of divergent projections under climate change Authors: Kirstin Holsman, Kirstin Holsman, Jim Ianelli, Andr�� Punt, Kerim Aydin, Anne Hollowed Keywords: multi-model inference, climate change, multi-species stock assessment models, ecosystem based management Presentation type: Oral</p>
17:20	<p>CM Code: E:325 Title: Using multi models to design multi-annual management plans. The experience of the North Sea and European Western Waters Authors: Ernesto Jardim, Arina Motova, Finlay Scott, Iago Mosqueira Keywords: multi-annual, management, models, North Sea, Celtic Sea, West of Scotland, Western Channel, Bay of Biscay, Iberian waters, FCube, FLBEIA, Ecopath with Ecosim, SIMFISH, FISHRENT, IAM, a4a, SSFDYN, CFP, Europe Presentation type: Oral</p>
17:40	Discussion
18:00	End of session

Theme session F

Integrated ecosystems assessment and decision support to advance ecosystem-based fisheries management

Conveners: John Pope (UK) Lena Bergström (Sweden) Melania Borit (Norway)

Monday 19 September 2016, 15:00-19:00, Omega 1

Tuesday 20 September 2016, 10:00-13:00, Omega 1

Tuesday 20 September 2016, 15:00-16:30, Omega 1

Monday 19 September 2016

15:00	Introduction
15:05	<p>CM Code: F:140 Title: Is the Gulf of Cadiz ready for the ecosystem approach? A perspective from the southernmost European Atlantic regional sea Authors: Marcos Llope Keywords: Gulf of Cadiz, Guadalquivir estuary, ecosystem approach, nursery, anchovy, tradeoffs, stakeholders, fisheries, agriculture, aquaculture, hydropower, shipping, mining, irrigators, dredging, dam Presentation type: Oral</p>
15:20	<p>CM Code: F:560 Title: Characteristics of Modelling Fisheries as Socio-Ecological Complex Adaptive Systems Authors: Alexander Holdgate, Melania Borit Keywords: Complex Adaptive System, fisheries Management, modelling; socio-ecological system, systematic literature review Presentation type: Oral</p>
15:35	<p>CM Code: F:183 Title: Understanding the pathways and roles of scientific information: A critical step in operationalizing ecosystem-based fisheries management (EBFM) Authors: Suzuette S. Soomai Keywords: science-policy interface, information use, decision-making, communication, ecosystem-based fisheries management Presentation type: Oral</p>
15:50	<p>CM Code: F:483 Title: Collecting fisheries data – the move of industry from passive to active partners in collecting and analysing data. Authors: Magnus L Johnson, Mike Cohen, Jane Sandell, Michael Roach, Mike Park, Annie Hooper, Dale Rodmell Keywords: fisheries science partnerships, co-management, data collection Presentation type: Oral</p>
16:05	Discussion
16:20	Break
16:25	<p>CM Code: F:244 Title: Decision support framework for EAFM Authors: Rahikainen, M., Nielsen Nolde, K., Ballesteros, M., Laerke, B., Chapela, R. Keywords: ecosystem approach to fisheries management, decision support framework Presentation type: Oral</p>
16:40	<p>CM Code: F:370 Title: Towards an ecosystem approach to fisheries management: participatory planning and decision support for the West coast of Scotland mixed fisheries Authors: Kåre Nolde Nielsen, Alan Baudron, Natalia Serpetti, Sheila Heymans, Mika Rahikainen and Paul Fernandes Keywords: Ecosystem approach to fisheries management, decision support, mixed fisheries, Ecopath with Ecosim, stakeholders Presentation type: Oral</p>
16:55	<p>CM Code: F:323 Title: Measuring good fisheries governance: Indicators, tools and stakeholders Authors: Ixai Salvo, Svein Jentoft, Petter Holm, Jahn Petter Johnsen, Antonio G. Allut Keywords: fisheries, governance, indicators, stakeholders, engagement, assessment, measurement Presentation type: Oral</p>
17:10	Discussion
17:40	Break
17:45	<p>CM Code: F:572 Title: An ecosystem-level redundancy analysis decision tool to inform the integrated ecosystem assessment indicator selection process Authors: Joshua P Kilborn, Michael Drexler, Corey Ridings Keywords: Indicator selection, ecosystem based fisheries management, IEA, RDA Presentation type: Oral</p>
18:00	<p>CM Code: F:489 Title: Lessons learned: Successes and pitfalls in IEA methods Authors: Saskia A. Otto, Jörn Schmidt, Geir Ottersen, Edda Johannesen, and Christian Möllmann Keywords: knowledge exchange, ICES IEA working groups, method review, SWOT analysis Presentation type: Oral</p>
	<p>CM Code: F:391 Title: Identifying Leading Indicators of Shifts in Marine Ecosystems</p>

18:15	<p>Authors: Kendra Karr, Carrie Kappel, Mary Donovan, Mary Hunsicker, Keywords: early warning indicators, regime shifts, EBFM, sustainability, multi-species management Presentation type: Oral</p>
18:30	<p>CM Code: F:671 Title: Introducing the pOOAO - A concept for aggregating indicator assessments. Authors: Wolfgang Nikolaus Probst Keywords: integration; aggregation; integrated ecosystem assessments; good environmental status; probabilistic aggregation rule; Marine Strategy Framework Directive; MSFD, One-out-all-out; OOA; probabilistic One-out-all-out; pOOAO Presentation type: Oral</p>
18:45	Discussion
19:00	End of session
Tuesday 20 September 2016	
10:00	Introduction
10:05	<p>CM Code: F:328 Title: A trait-based assessment towards understanding long-term changes in ecosystem functioning: the Central Baltic Sea as a case study Authors: Martin Lindegren, L. Pécuchet, B. Weigel, M. Nordström, S.A. Otto, Z. Zagrodska, R. Kleis, R. Frelat, T. Blenckner, C. Möllmann, L. Bergström, L. Uusitalo Keywords: traits, trait-based approach, ecosystem functioning, regime shifts, integrated ecosystem assessments, ecosystem-based management Presentation type: Oral</p>
10:20	<p>CM Code: F:312 Title: A response to the challenge of including the human dimension in integrated ecosystem assessment – Baltic salmon and clupeid examples Authors: Päivi Haapasaari, Laura Uusitalo, Lena Bergström, Outi Heikinheimo, Heikki Peltonen, Atso Romakkaniemi Keywords: causal relationship, conceptual model, foodweb, social-ecological system, social indicators Presentation type: Oral</p>
10:35	<p>CM Code: F:310 Title: The future of Baltic salmon: using participatory modelling to predict the effects of climate change on salmon and adapt new goals and management strategies Authors: Kelsey Hartikainen, Samu Mäntyniemi, Päivi Haapasaari Keywords: Baltic salmon, climate change, participatory modeling, Bayesian methods Presentation type: Oral</p>
10:50	<p>CM Code: F:488 Title: Cumulative effect assessments in marine ecosystems: a review of methods and best practices Authors: Samuli Korpinen, Jesper H Andersen Keywords: cumulative effect assessment, human activities, anthropogenic pressures Presentation type: Oral</p>
11:05	<p>CM Code: F:82 Title: ODEMM in the Celtic Seas: a qualitative IEA with decision support tools Authors: Debbi Pedreschi, David Reid Keywords: ODEMM, risk assessment, Celtic Seas, decision support, communication tools, integrated ecosystems assessment. Presentation type: Oral</p>
11:20	Discussion
11:35	Break
11:45	<p>CM Code: F:629 Title: Applying an ecosystem and risk-based approach towards an integrated assessment of benthic habitat communities at a regional seas scale Authors: Sophie A. M. Elliott, Laurent Guérin, Cristina Vina-Herbon, Bryony Meakins, Roland Pesch, Alberto Serrano. Keywords: ecosystem-based fisheries management, MSFD, indicators, integrated assessment. Presentation type: Oral</p>
12:00	<p>CM Code: F:537 Title: SYMBIOSES: a practical risk management tool to integrate fisheries and hydrocarbon activities in the Lofotens and Barents Sea, Norway Authors: Daniel Howell, Jolynn Caroll Frode Vikebo Keywords: ecosystem, fisheries, oil, oil spill, integrated management Presentation type: Oral</p>
12:15	<p>CM Code: F:215 Title: Integrated ecosystem model of Icelandic waters Authors: Erla Sturludottir, Christopher David Desjardins, Kai Logemann, Gudrun Marteinsdottir and Gunnar Stefansson Keywords: Atlantis, ecosystem model, Icelandic waters Presentation type: Oral</p>
	CM Code: F:577

12:30	<p>Title: Exploring the effects of different management scenarios for the Icelandic gadoid fishery Authors: Bjarki Þór Elvarsson, Saga Guðmundsdóttir, Sveinn Agnarsson, Jónas R. Viðarsson Keywords: gadget, multi-criteria analysis, ecosystem models Presentation type: Oral</p>
12:45	Discussion
13:00	Lunch
15:00	<p>CM Code: F:278 Title: Integrating environmental change and socio-economic considerations into operational fish stock advice Authors: Christian Möllmann, Anna Gårdmark, Hans-Harald Hinrichsen, Scott Large, Bärbel Müller-Karulis, Stefan Neuenfeldt, Niclas Norrström, Jörn Schmidt, Maciej Tomczak, Rudi Voss Keywords: Eastern Baltic cod, Integrated Advice, environmental indicators, short-term predictions, socio-economics Presentation type: Oral</p>
15:15	<p>CM Code: F:518 Title: Nash equilibrium can resolve conflicting maximum sustainable yields in multispecies fisheries management Authors: Niclas Norrström, Michele Casini, Noël M.A. Holmgren Keywords: cod, herring, sprat, Baltic Sea, multispecies, MSY, reference points Presentation type: Oral</p>
15:30	<p>CM Code: F:243 Title: Decision support approach for management of the Baltic multi-species fishery Authors: Rahikainen, M., Bartolino, V., Bauer, B., Tomczak, M.T., Horbowy, J. Keywords: decision support, Bayesian Influence Diagram, multi-species management Presentation type: Oral</p>
15:45	<p>CM Code: F:90 Title: Development of a simple delay difference model of the North Sea Multispecies Fishery System as a module for decision support to EBFM Authors: John Pope Keywords: , Decision Support Modules, Tradeoffs, Multispecies Fisheries, Size Based Models. Presentation type: Oral</p>
16:00	Discussion
16:30	End of session
Posters	
	<p>CM Code: F:103 Title: Some problems of providing area based advice modules for Decision Support to EBFM Authors: John G. Pope Keywords: EBFM, decision support modules, area disaggregated, moment based size models. Presentation type: Poster</p>
	<p>CM Code: F:665 Title: Integrated analysis of several biological/hydrological components and cod stomach data in the Gdansk Basin of the Baltic Sea Authors: Victoria Amosova, Alexander Zezera, Anastasia Karpushevskaya, Igor Karpushevskiy, Faina Patokina, Marina Dmitrieva Keywords: Baltic Sea, cod, integrated ecosystem analysis, physiological parameters, abiotic and biotic drivers Presentation type: Poster</p>
	<p>CM Code: F:131 Title: Danish seine - Ecosystem effects of fishing Authors: Thomas Noack, Ludvig Krag, Niels Madsen Keywords: Alternative gears, fish behavior, gear technology, sea bottom impacts Presentation type: Poster</p>
	<p>CM Code: F:133 Title: Integrated Ecosystem Assessment in support of ecosystem based fisheries management in the Irish Sea - a case study with cod (Gadus morhua). Authors: S.E. Beggs, M.G. Lundy Keywords: Irish Sea, IEA, EBFM, gadus morhua, Presentation type: Poster</p>
	<p>CM Code: F:163 Title: Improving fisheries management by increasing selectivity: Results from the CelSelect project Authors: Marianne Robert , Fabien Morandeau, Marion Fiche Keywords: landing obligation, mixed fisheries, Celtic Sea, selectivity, generalized linear mixed models, fishermen and scientists collaboration Presentation type: Poster</p>
	<p>CM Code: F:185 Title: Evidence-based and industry-driven ecosystem management approach of a dynamic scallop fishing ground Authors: G. Lambert, L.G. Murray, H. Hinz, J.G. Hiddink, H. Lincoln, N. Hold, G. Cambie, M.J. Kaiser Keywords: BACI experiment, fishing impact, marine protected areas, natural disturbance, scallop dredging, seabed recovery, stakeholder engagement Presentation type: Poster</p>

CM Code: F:187

Title: Testing and improving the fit of quadratic yield surfaces used to provide an interface between biological and economic EBFM modules

Authors: John G. Pope

Keywords: EBFM, multispecies Schaefer models, interface biological and economic.

Presentation type: Poster

CM Code: F:192

Title: Spatio-temporal effects of environmental drivers and fishing in a Baltic Sea ecosystem

Authors: Barbara Bauer, Valerio Bartolino, Ayoe Hoff, H. E. Markus Meier, Piotr Margoński, Bärbel Müller-Karulis, Mika Rahikainen, Sofia Saraiva, Jan Warzocha, Janina Kownacka, Jeroen Steenbeek, Maciej T. Tomczak

Keywords: ecospace, fisheries, eutrophication, simulation model, spatial management

Presentation type: Poster

CM Code: F:203

Title: Seal-fisheries interactions in the Baltic Proper

Authors: David Costalago, Bauer, Barbara, Tomczak, Maciej T.; Lundström, Karl; Winder, Monika.

Keywords: halichoerus grypus, ecopath with ecosim, marine mammals, Baltic Sea, ecosystem-based fisheries management, ecosystem services

Presentation type: Poster

CM Code: F:226

Title: Managing fisheries in the context of an integrated marine policy: the importance of spatial issues

Authors: Pierre Petitgas, Bruno Ernande (IFREMER, France), Eider Andonegi (AZTI, Spain), Gianna Fabi (CNR-ISMAR, Italy), Kostas Kapiris (HCMR, Greece), Ana Leocadio (DEFRA, UK), Giuseppe Scarcella (CNR-ISMAR, Italy)

Keywords: Ecosystem approach, Integration, Spatial, Policy

Presentation type: Poster

CM Code: F:250

Title: Ecosystem-based fisheries management using Portfolio theory: an application to the Basque inshore fishery.

Authors: Itsaso Carmona, Alberto Ansuategi Jose Manuel Chamorro Marta Escapa Mari Carmen Gallastegui Arantza Murillas Raúl Prellezo

Keywords: Ecosystem-based fisheries management, portfolio theory, inshore fleet, precautionary principle.

Presentation type: Poster

CM Code: F:260

Title: Making the Ecosystem Based Fisheries Management operational for management support in the Bay of Biscay: analyzing the effects of the implementation of the Landing Obligation at an ecosystem level.

Authors: Eider Andonegi, Raúl Prellezo

Keywords: Ecosystem Based Fisheries Management, Bay of Biscay, ecosystem models, landing obligation

Presentation type: Poster

CM Code: F:318

Title: Integration of genetic data on fisheries management models. The European hake case.

Authors: J.M. Martínez-Vázquez, S. Cerviño F. Velasco M. Pérez

Keywords: European hake, stock, management, genetics

Presentation type: Poster

CM Code: F:327

Title: A data analytics framework for ecosystem-based fisheries management

Authors: David Currie, Enda Howley, Jim Duggan

Keywords: data analytics, data integration, decision support

Presentation type: Poster

CM Code: F:354

Title: Determining seasonal target species assemblages of bottom otter trawlers from fishing effort and commercial species distributions

Authors: Pierre Bourdaud, Morgane Travers-Trolet, Youen Vermard, Paul Marchal

Keywords: fishing effort, target species assemblages, seasonality, time series analyses, Eastern English Channel

Presentation type: Poster

CM Code: F:356

Title: Stochastic Multi-species model for fish stock assessment in the Celtic sea

Authors: Jonathan Rault, Marianne Robert, Dorothée Kopp, Lionel Pawlowski

Keywords: multispecies stock assessment and advise, stochastic and Bayesian modeling, Celtic Sea, stomach contents

Presentation type: Poster

CM Code: F:367

Title: Productivity changes across the Baltic Sea – linking abiotic changes to lower trophic level dynamics

Authors: Torres MA, Otto, S.A., Suikkanen, S., Haas, B., Ikauniece, A., Möllmann, C., Peltonen, H., Putnis, I., Wesslander, K., Bergström, L.

Keywords: Baltic Sea, long-term trends, foodwebs, human impacts, environmental changes, climate change, regime shifts, phytoplankton, zooplankton

Presentation type: Poster

CM Code: F:401

Title: What's on cod's menu?

Authors: Nataliia Kulatska, Valerio Bartolino, Håkan Wennhage, Bjarki Elvarsson, Gunnar Stefansson

Keywords: Baltic Sea, cod, herring, sprat, population dynamics, ecosystem modeling, EBFM, fisheries, predator-prey interactions
Presentation type: Poster

CM Code: F:459

Title: Estimating fishery dynamic and its relation to changing environments to support ecosystem-based fisheries management

Authors: Kasatkina S., Gasyukov P.

Keywords: multivariable fishery and environmental time-series data, long-term trends and regime shifting

Presentation type: Poster

CM Code: F:505

Title: Cetaceans and fishermen compatibility: potential competition between common dolphins, minke whales and the Portuguese purse seine fishery.

Authors: Laura Wise, Isidora Katara, Ana Marçalo, Sílvia Monteiro, Jorge Santos, José Vingada, Alexandra Silva

Keywords: resource competition, short-beaked common dolphin, minke whale, purse-seine, spatial overlap, dietary overlap

Presentation type: Poster

CM Code: F:554

Title: 50 shades of grey – The colours of ICES stock assessments

Authors: Rüdiger Voss, Eske C. Evers Jörn O. Schmidt

Keywords: stock assessment, variability, ecoregion

Presentation type: Poster

CM Code: F:623

Title: The one-out-all-out approach (OOAO)

Authors: Wolfgang Nikolaus Probst

Keywords: integration, aggregation, integrated ecosystem assessments, good environmental status, probabilistic aggregation rule, Marine Strategy Framework Directive (MSFD), one-out-all-out, (OOAO), probabilistic one-out-all-out (pOOAO)

Presentation type: Poster

CM Code: F:649

Title: The Celtic Seas Partnership

Authors: Penny Wilson

Keywords: MSFD, Celtic Seas Partnership

Presentation type: Poster

CM Code: F:224

Title: Trophic modeling for integrated ecosystem assessment: from diagnosis to ecosystem-based advice for fisheries management

Authors: Hernvann, Pierre-Yves., Moullec, Fabien., Gascuel, Didier.

Keywords: Fishing impact, Ecosystem-based fisheries management, Trophic modeling, Ecopath with Ecosim, EcoTroph, Scenarios simulation, Landing Obligation

Presentation type: Poster

CM Code: F:305

Title: Resilience and regime shifts in the Mediterranean biota associated with sea warming

Authors: Paris Vasilakopoulos, Dionysios E. Raitsos, Evangelos Tzanatos, Christos D. Maravelias

Keywords: climate change, FAO landings, integrated assessment, threshold GAMs, tipping points

Presentation type: Poster

Theme session G

The inshore challenge – management of recreational and commercial fisheries accounting for social benefits, economic value, and biological sustainability

Conveners: Kieran Hyder (UK) Harry Strehlow (Germany) Estanis Mugerza (Spain) Maria Spedicato (Italy)

Thursday 22 September 2016, 10:00-13:00, Omega 1

Thursday 22 September 2016, 15:00-16:30, Omega 1

Thursday 22 September 2016, 17:00-18:30, Omega 1

Friday 23 September 2016, 09:00-10:30, Omega 1

Thursday 22 September 2016

10:00	Introduction to session
10:10	CM Code: G:168 Title: Recreational sea angling – a European perspective Authors: Kieran Hyder, Simon Weltersbach, Keno Ferter, Bryony Townhill, Mike Armstrong, Harry V. Strehlow Keywords: recreational sea fishing, integrated marine management Presentation type: Oral
10:25	CM Code: G:258 Title: Small scale, big deal: Sampling catches from European small-scale fisheries Authors: S. Demanèche, M. Armstrong, E. Mugerza, M. Adamowicz, S. Carlshamre, E.D. Clarke, G. Dingsør, J. Egekvist, A.C. Fernandes, M. Kovsars, S. Nimmegeers, D. Norkus, H. Otterå, D. Reis, J. Rodriguez, L. Saks, S. Schembri, M. Spegys, S. Stoetera, S. Vandemaele, J.H. Vølstad, G. Włodzimierz, H. Gerritsen, N. Prista Keywords: Small-scale fleets (SSF) dimension and importance in European countries, Data quality indicators, Estimation of transversal variables, discards and fleet-based biological variables, Sampling strategy, Sampling best practices, CFP, Marine Spatial Planning. Presentation type: Oral
10:40	CM Code: G:578 Title: Developing a sentinel longline/jig survey for groundfish species in the eastern Gulf of Maine. Authors: Mattie Rodrigue, Yong Chen Keywords: Eastern Gulf of Maine, groundfish, inshore, sentinel survey Presentation type: Oral
10:55	CM Code: G:195 Title: Fisheries diversity in the Mediterranean: the Italian monitoring programme for the assessment of productivity and ecological sustainability of inshore fisheries Authors: R.F. Sabatella, E.C. Sabatella, P. Accadia, D. Pinello, P. Carbonara, G. Lembo, M.T. Spedicato, A. Lucchetti, A. Ligas, M. Sbrana Keywords: Data collection, small scale fishery, Mediterranean sea, sustainability indicators Presentation type: Oral
11:10	CM Code: G:610 Title: A comprehensive approach to assessing and monitoring marine recreational fisheries Authors: Martin Cryer, Neville Smith Keywords: recreational fisher, amateur fisher, harvest estimation, catch monitoring, systems approach, machine learning tool Presentation type: Oral
11:25	CM Code: G:179 Title: A Bayesian network approach to predict survival of caught-and-released fish Authors: Sebastian S. Uhlmann, Michael W. Davis, Keno Ferter, Harry Strehlow, Marc Simon Weltersbach, Hugues Benoît, Mike Breen, Thomas Catchpole, Jochen Depestele, Steven J. Cooke, Graham D. Raby, Matt K. Broadhurst, Steven J. Kennelly Keywords: unaccounted post-release mortality, fuzzy logic, discard ban Presentation type: Oral
11:40	CM Code: G:510 Title: Establishing the location of fishing activities within Scottish inshore areas using AIS technology Authors: Mark James, John Thompson, Kyla Orr, Alison McKnight Keywords: scotland, inshore, automatic identification system, vessel activity Presentation type: Oral
11:55	CM Code: G:631 Title: Using GIS to localize the fishing activity of small vessels targeting European hake in the Adriatic sea as a basis for spatial management Authors: Spedicato, M.T., Carbonara, P., Facchini, M.T., Zupa, W., Lembo, G. Keywords: multiannual management plans, European hake, Adriatic Sea, gear interaction, GIS Presentation type: Oral
12:10	CM Code: G:175 Title: Open source monitoring platform for small commercial fisheries Authors: Gorka Gabiña, Iñaki Quincoces, Oihane C. Basurko Keywords: open source platform, inshore vessel monitoring, GPS data, fishing effort, fuel consumption, win-win, sustainability Presentation type: Oral
12:25	CM Code: G:512 Title: Development of a platform for fine scale spatial assessment of fishing activities around Scotland Authors: Mark James, Tania Mendo, John Thompson, Kyla Orr, Alison McKnight Keywords: inshore, automatic identification system, database management; spatio-temporal data

Presentation type: Oral

12:40
CM Code: G:211
Title: The value of fishing contest on monitoring fish communities and recreational fishing selectivity
Authors: Jordi Boada, Ana Gordo
Keywords: sport fishing, recreational fishing, fish community, species distribution, Spain
Presentation type: Oral

13:00 **Lunch break**

15:00
CM Code: G:285
Title: Surveying 2.0 - Using remote cameras to monitor a highly specialized recreational fishery in the Baltic Sea
Authors: Marc Simon Weltersbach, Frederik Kaiser, Harry V. Strehlow
Keywords: Atlantic salmon, fisheries management, fishing effort, recreational fishing, small-scale fisheries, survey design
Presentation type: Oral

15:15
CM Code: G:208
Title: Strengthening regional cooperation in small scale and recreational fisheries data collection (FishPi)
Authors: Lucia Zarauz, Mike Armstrong, Estanis Mugerza, Eider Andonegi, Patrik Börjesson, Hugo Mendes, Ana Moreno.
Keywords: small-scale fisheries, recreational fisheries, regional coordination, data collection
Presentation type: Oral

15:30
CM Code: G:332
Title: Small-scale fisheries in the Adriatic Sea: fishing strategies and eco-ethology of target species
Authors: Fabio Grati, Aladzuz, Azzurro, Bolognini, Carbonara, Çobani, Deda, Domenichetti, Dragičević, Dulčić, Đurovic, Ikica, Joksimovic, Marceta, Matic-Skoko, Lembo, Santojanni, Spedicato, Stagličić, Vrgoč, Zerem, Arneri, Ceriola, Milone
Keywords: Adriatic Sea, FAO AdriaMed, small-scale fisheries, set gears, shared stocks
Presentation type: Oral

15:45
CM Code: G:245
Title: Consequences of catch-and-release angling for black bream *Spondyliosoma cantharus*, during the parental care period: implications for management
Authors: A. Pinder, R.J. Velterop, S.J. Cooke, R.J. Britton
Keywords: Recreational angling; stock exploitation; spawning; fisheries management; nest guarding; reflex impairment
Presentation type: Oral

16:00
CM Code: G:306
Title: An ecosystem-based approach to define small scale fisheries management plans in the Bay of Biscay
Authors: Arantza Murillas-Maza, Estanis Mugerza, Luis Arregi
Keywords: Ecosystem Approach, Small Scale fishing, Management plan
Presentation type: Oral

16:15 **Discussion**

16:30 **Coffee break**

17:00
CM Code: G:329
Title: Does temporary closure of lobster (*Homarus gammarus*) grounds due to windfarm construction highlight a new approach to management of crustacean stocks?
Authors: Michael Roach, Mike Cohen, Domino Joyce, Andy Reville, Magnus Johnson
Keywords: *Homarus gammarus*, crustacean, fisheries, offshore wind farm, management
Presentation type: Oral

17:15
CM Code: G:194
Title: The "Menaide" small scale driftnets: an example of selective and traditional fisheries, sustaining the economy of small coastal villages in Italy
Authors: Paolo Sartor, P. Carbonara, G. Lembo, A. Lucchetti, R.F. Sabatella, M. Sbrana, M.T. Spedicato
Keywords: small scale fisheries, Mediterranean Sea, anchovy, driftnets, SWOT analysis, fishery management.
Presentation type: Oral

17:30
CM Code: G:299
Title: Local fishing communities and nature based tourism: shrimp fisheries and whale watching in Baja, Mexico
Authors: Alberto Ansuategi, Duncan Knowler, Tobias Schwoerer, Salvador García-Martínez
Keywords: Local fishing communities, whale watching, valuation
Presentation type: Oral

17:45
CM Code: G:591
Title: Using environmental, social and economic criteria in the allocation of inshore fishing opportunities (Withdrawn)
Authors: Griffin Carpenter, Chris Williams
Keywords: MCDA, Article 17, nephrops, seabass
Presentation type: Oral

18:00 **Discussion**

18:30 **End of day**

Friday 23 September 2016

CM Code: G:237

09:00	<p>Title: Fishing ports as a critical scale for coastal Mediterranean fisheries: Characterization using multiple socio-economic criteria Authors: George Tserpes, Evangelos Tzanatos, Konstantinos Skarvelis Keywords: typology, fishing port, small-scale fisheries, tourism, diversification activities Presentation type: Oral</p>
09:15	<p>CM Code: G:308 Title: Participatory bio-economic modelling of a small-scale trap fishery for Plesionika narval (Decapoda, Pandalidae) in the eastern Mediterranean Sea Authors: Paris Vasilakopoulos, Christos D. Maravelias, Kostas Kapiris, Aikaterini Anastasopoulou, Chris Smith, Stefanos Kalogirou Keywords: dodecanese, management plan, MEFISTO, participatory management, sustainability Presentation type: Oral</p>
09:30	<p>CM Code: G:493 Title: An individual based model of fisher behaviour for management scenario prediction in the Isle of Man scallop fishery Authors: Jennifer Shepperson, Lee Murray, Steven Mackinson, Ewen Bell, Michel Kaiser Keywords: fisheries, individual based model, patch choice behaviour, pattern oriented modelling, fisher participation Presentation type: Oral</p>
09:45	<p>CM Code: G:223 Title: Assessing the capability and willingness of skippers towards fishing industry-led data collection Authors: Stephen C. Mangi, Samantha Smith, Thomas Catchpole Keywords: English inshore sector, fishery dependent data, self-sampling, fully documented fisheries Presentation type: Oral</p>
10:00	<p>CM Code: G:485 Title: Development of a predictive model of shell disease for inshore lobster fisheries: A case study in Long Island Sound Authors: Kisei Tanaka, Samuel Belknap, Jared Homola, Yong Chen Keywords: American lobster, generalized additive model, Long Island Sound, epizootic shell disease Presentation type: Poster</p>
10:02	<p>CM Code: G:199 Title: Monitoring approaches of recreational fisheries in France under the Marine Strategy Framework Directive Authors: Amélie Régimbart, Jérôme Baudrier, Eric Foucher, Manuel Bellanger Keywords: recreational fisheries, monitoring approaches, stock assessment, Marine Strategy Framework Directive Presentation type: Poster</p>
10:04	<p>CM Code: G:355 Title: Economic gains from invasive species in the Gökova Bay: A small scale fishing experiment Authors: Celal Ateş, Murat Çelik, Sezgin Tunca, Hasan Cerim Keywords: Lessepsian migration, climate change, economics, small scale fishery, Gökova Bay Presentation type: Poster</p>
10:06	<p>CM Code: G:465 Title: A study on the seafood consumer behaviours: Diyarbakir province example Authors: Mehmet Aydın, Yaşam Odabaşı, Sezgin Tunca Keywords: consumer behaviors, seafood consumption, Diyarbakır Presentation type: Poster</p>
10:08	<p>CM Code: G:481 Title: Developing a sampling scheme to evaluate Norwegian marine recreational fisheries - a case study in the Oslofjord Authors: Keno Ferter, Alf Ring Kleiven, Jonathan Edward Colman, Thronoddvar Haugen, Stian Stensland, Harry Vincent Strehlow, Marc Simon Weltersbach, Jon Helge Vølstad Keywords: Recreational fishing, fisheries management, survey design, telephone survey, roving creel survey, human dimensions Presentation type: Poster</p>
10:10	<p>CM Code: G:209 Title: Recreational Marine fishing in Spain: a survey plan for a global approach Authors: Ana Gordo, Jordi Boada Keywords: Spain, recreational fishing, survey, stakeholders Presentation type: Poster</p>
10:12	<p>CM Code: G:173 Title: The recreational fishery in Greece. A comparison to the small scale fishery Authors: Kostas Kapiris, Stefanos Kavadas Keywords: recreational fishery, Greece, small scale fishery Presentation type: Poster</p>
10:14	<p>CM Code: G:222 Title: Review of evidence on the impacts of under 10m and over 10m fishing fleets in England, UK Authors: Stephen C. Mangi, Tristian Southall, Leila Fonseca Keywords: Inshore fisheries assessment, social and economic impacts, data, inshore and offshore fleets Presentation type: Poster</p>
10:16	<p>CM Code: G:252 Title: Quantifying catches of the sport fishing community along the Maltese coast. Authors: Sandra Agius Darmanin, Adriana Vella Keywords: Sport fishing, coastal fish communities, conservation, Malta</p>

Presentation type: Poster

10:18 **CM Code:** G:157
Title: Dynamics of eel stock and landings in Latvia with a special emphasis on recovery program
Authors: Janis Birzaks, Janis Bajinskis, Kaspars Abersons, Eriks Aleksejevs
Keywords: European eel, *anguilla anguilla*, restocking
Presentation type: Poster

10:20 **CM Code:** G:202
Title: Are systems approaches an effective tool for integrated marine management – the case of the European seabass (*Dicentrarchus labrax*)
Authors: Hannah Tidbury, Kieran Hyder
Keywords: European seabass, integrated marine management, systems dynamics
Presentation type: Poster

10:22 **CM Code:** G:462
Title: Economic Value of Recreational Fishing in Foça and Gökova MPAs
Authors: Sezgin Tunca, Marko Lindroos, Lone Grønbæk Kronbak
Keywords: recreational fishing, economic value, travel cost, marine protected areas
Presentation type: Poster

10:24 **Discussion**

10:30 **End of session**

Theme session H

Looking backwards to move ahead: how the wider application of new technologies to interpret scale, otolith, statolith and other biomineralised age-registering structures could improve management of natural resources

Conveners: Ewan Hunter (UK) Vladimir Laptikhovsky (UK) Philip Hollyman (UK)

Thursday 22 September 2016, 15:00-16:30, Alfa

Thursday 22 September 2016, 17:00-18:30, Alfa

Friday 23 September 2016, 09:00-10:30, Alfa

Friday 23 September 2016, 11:00-13:00, Alfa

Friday 23 September 2016, 14:00-17:00, Alfa

Thursday 22 September 2016

15:00	Introduction
15:05	CM Code: H:207 Title: Biogenic carbonate records environmental variation in sulfur isotopes Authors: Zoe Doubleday, John Cliff, Chris Izzo, Bronwyn Gillanders Keywords: biogeochemical marker, sulfur isotopes, carbonate, diet, otolith Presentation type: Oral
15:30	CM Code: H:83 Title: Ageing of cephalopods using hard structures Authors: F.V.Lishchenko, A.V. Lishchenko Keywords: cephalopods, hard structures, age determination, statoliths, beaks, lenses, vestigial shells Presentation type: Oral
15:45	CM Code: H:538 Title: Juvenile river herring (<i>Alosa</i> species) otoliths identify spawning runs in coastal watersheds with poor nursery habitat Authors: Daniel H. Zapf, Roger A. Rulifson Keywords: otolith, elemental signatures, critical habitat, alosinae, river herring Presentation type: Oral
16:00	CM Code: H:128 Title: Fish eye lenses allow us to see into the past, revealing geographic histories that can be compared to otolith trace-metal profiles Authors: J. Granneman, A.A. Wallace, G.S. Ellis, D.J. Hollander, E.B. Peebles Keywords: eye, otolith, Gulf of Mexico, isotope, metal, red snapper Presentation type: Oral
16:15	CM Code: H:584 Title: Can otolith elemental composition reveal special events in the life history of a deep-sea species? Authors: Inês Farias, Sílvia Pérez-Mayol, Miquel Palmer, Beatriz Morales-Nin, Ivone Figueiredo Keywords: <i>Aphanopus carbo</i> , otolith elemental composition, LA-ICPMS, migratory dynamics Presentation type: Oral
16:30	Coffee break
17:00	CM Code: H:547 Title: Assigning nursery habitats in Atlantic Goliath Groupers (<i>Epinephelus itajara</i>) using non-lethal analyses of fin rays Authors: Orian E. Tzadik, David L. Jones, Ernst B. Peebles, Christopher C. Koenig, Christopher C. Stallings Keywords: essential nursery habitat, fin ray chemistry, chemical maps, natural tags, trace element analysis, chemical fingerprints Presentation type: Oral
17:15	CM Code: H:189 Title: Estuarine retention and production of striped bass larvae: A mark-recapture experiment Authors: David H. Secor, Edward D. Houde, Loren L. Kellogg Keywords: estuary, frontal regions, larval retention, salt front, larval mark recapture Presentation type: Oral
17:30	CM Code: H:388 Title: Contingent structure of Northwest Atlantic mackerel evaluated using otolith stable isotopes Authors: S.G. Redding, L. Cooper, D.H. Secor Keywords: Atlantic mackerel, otolith, stable isotopes, Northwest Atlantic, population structure, contingents, natal origin Presentation type: Oral
17:45	CM Code: H:204 Title: Ageing early life stages of <i>Octopus vulgaris</i> . Effect of temperature Authors: Catalina Perales-Raya, Manuel Nande, Aurora Bartolomé, Caminon Gestal, Juan José Otero, Pablo García-Fernández, Eduardo Almansa Keywords: early life, age, microstructure, beaks, cephalopod, octopus, paralarvae, temperature Presentation type: Oral
18:00	CM Code: H:398 Title: Evidence of multidecadal recruitment in the ocean quahog, <i>Arctica islandica</i> in the western Atlantic Ocean Authors: Sara M. Pace, Eric N. Powell, Roger Mann Keywords: ocean quahog, population age frequency, recruitment, age-length key Presentation type: Oral

18:15	<p>CM Code: H:104 Title: Additive and synergistic impacts of fishing and warming on the growth of a temperate marine fish Authors: John Morrongiello Keywords: otolith biochronology, growth, harvest, density dependence, phenotypic change, thermal performance Presentation type: Oral</p>
18:30	<p>CM Code: H:454 Title: Effects of climate on cod life history and ecology along a temperate-arctic gradient Authors: Hector Andrade, Bryan Black, Jane Godiksen, Will Ambrose, William Locke, Michael Carroll, Audrey Geffen Keywords: chronology, life-history traits, latitudinal gradient, otolith microchemistry Presentation type: Oral</p>
18:45	End of the day
Friday 23 September 2016	
09:00	Recap
09:05	<p>CM Code: H:426 Title: Can squid statoliths and pens provide useful information for fisheries management? Authors: Graham Pierce, Lee C Hastie, Sansanee Wangvoralak, Jessica Jones, Alexander Arkhipkin Keywords: squid, age, growth, assessment, fishery management Presentation type: Oral</p>
09:30	<p>CM Code: H:110 Title: Climate-driven synchrony of marine and terrestrial ecosystems in northwest Australia Authors: J. Ong, A.N. Rountrey, J. Zinke, J.J. Meeuwig, P.F. Grierson, A.J. O'Donnell, S.J. Newman, J.M. Lough, M. Trougan, M.G. Meekan Keywords: growth chronology, El Niño Southern Oscillation, environmental drivers of growth, tree-ring, otolith, coral core Presentation type: Oral</p>
09:45	<p>CM Code: H:286 Title: Validating the relationship between metabolic rate and otolith carbon isotopes in an iconic Australian fish species Authors: Jasmin Martino, Zoe Doubleday, Anthony Fowler, Bronwyn Gillanders Keywords: otolith, carbon isotopes, tissue chemistry, respirometry, metabolic rate, physiology Presentation type: Oral</p>
10:00	<p>CM Code: H:302 Title: Boundary based stock classification: Expert otolith readers outperform automated outlining methods Authors: J. Mapp, M. Fisher, E. Hunter Keywords: Otolith, Classification, Stock, Expert reader, Automation. Presentation type: Oral</p>
10:15	<p>CM Code: H:219 Title: Optimizing otolith 18O values for shelf-scale determination of provenance in a migratory flatfish Authors: Audrey M. Darnaude, Camille Albouy, Anna M. Sturrock, Clive N. Trueman, Ewan Hunter Keywords: fish migration, oxygen, stable isotopes, natural tag, plaice, North Sea Presentation type: Oral</p>
10:30	Coffee break
11:00	<p>CM Code: H:75 Title: Fish scales as non-lethal analogues to otoliths: reconstructing migrations across salinity gradients with geochemical proxies in alternative structures Authors: Benjamin D. Walther, Matthew Seeley Keywords: migration, scales, isotopes, trace elements, biominerals Presentation type: Oral</p>
11:25	<p>CM Code: H:257 Title: Strontium marking young eel for restocking in Sweden – preliminary results on a full scale implementation. Authors: Håkan Wickström Keywords: anguilla anguilla, restocking, otolith, marking, strontium, growth, management Presentation type: Oral</p>
11:40	<p>CM Code: H:74 Title: A novel approach to estimate natural and fishery related mortality of the common whelk, <i>Buccinum undatum</i> (L) using shell size distributions and age readings Authors: V. Laptikhovsky, C. Barrett, C. Firmin, P. Hollyman, A. Lawler, R. Masefield, R. McIntyre, D. Palmer, M. Soeffker, M. Parker-Humphreys. Keywords: whelk, buccinum, mortality, age, Celtic Sea Presentation type: Oral</p>
11:55	<p>CM Code: H:54 Title: Slave to the rhythm: Can seasonal signals in otolith microchemistry be used as a tool for age estimation? Authors: Karin Hüßsy, Franziska Heidemann, Hans-Harald Hinrichsen, Lasse Marohn, Joachim Gröger, Karin E. Limburg Keywords: otolith, age estimation, microchemistry, Baltic Sea Presentation type: Oral</p>
	<p>CM Code: H:277 Title: The statoliths of the whelk <i>Buccinum undatum</i>: a new age determination tool.</p>

12:10	<p>Authors: Phil Hollyman, Simon R. Chenery, EIMF, David Righton, Melanie J. Leng, Chris A. Richardson Keywords: statolith, buccinum undatum, gastropod, SIMS, age determination Presentation type: Oral</p>
12:25	<p>CM Code: H:99 Title: Marginal increment analysis of fish otoliths: new insights across a range of species Authors: K. Mahé, M. Etherton, J.L. Dufour, R. Elleboode, K. Sévin, H. de Pontual, B. Ernande Keywords: otolith, validation, age, marginal increment analysis Presentation type: Oral</p>
12:40	<p>CM Code: H:246 Title: Environmental reconstructions from fish otoliths indicate change over decadal and centennial time scales Authors: Bronwyn M. Gillanders, Christopher Izzo, Zoe A. Doubleday, Morgan C. F. Disspain Keywords: chemical chronology, palaeoenvironmental reconstruction, element, otoliths, LA ICP-MS Presentation type: Oral</p>
13:00	Lunch
14:00	<p>CM Code: H:474 Title: Networks of biochronologies for environmental monitoring and climate reconstruction Authors: Paul Butler, Ariadna Purroy Albet, Stella Alexandroff, Irene Ballesta, Fabian Bonitz, Juan Estrella-Martínez, Amy Featherstone, Stefania Milano, Maria Pyrina, Tamara Trofimova, Liqiang Zhao Keywords: Arctica islandica, Gglycymeris glycymeris, biochronology, marine climate, North Atlantic Ocean, environmental monitoring, bivalve mollusc Presentation type: Oral</p>
14:25	<p>CM Code: H:530 Title: Are otoliths effective environmental monitoring tools for coastal zone management? Authors: Audrey J.Geffen Keywords: pollution monitoring, vaterite, coastal zone management Presentation type: Oral</p>
14:40	<p>CM Code: H:561 Title: Reconstructing environmental history of water off the southern coast of Sicily with bomb radiocarbon validated longevity coupled with trace elements analysis in otoliths of <i>Dentex gibbosus</i> (Sparidae) Authors: S. Vitale, A.H. Andrews, S. Genovese, M. Sprovieri, P. Rizzo, S. Gancitano, A. Bonanno, F. Fiorentino Keywords: age validation, carbon-14, trace elements, Mediterranean, sparidae Presentation type: Oral</p>
14:55	<p>CM Code: H:125 Title: Direct methods in age and growth studies of cephalopods Authors: A.I. Arkhipkin Keywords: age, growth, techniques, cephalopods Presentation type: Oral</p>
15:10	<p>CM Code: H:316 Title: Otolith microchemistry: A tool to solve a mystery of the Baltic Sea flounder (<i>Platichys flesus</i>) Authors: Ustups Didzis, Samson, Melvin Armand, Florin, Ann-Britt, Nissling, Anders, Zilniece, Dace, Limburg, Karin Keywords: flounder, Baltic Sea, otoliths, microchemistry Presentation type: Oral</p>
15:25	Discussion
15:40	<p>CM Code: H:68 Title: Automatic recognition of otoliths which have a high shape similarity Authors: Youssef El Habouz, Youssef Es-saady, Mostafa El yassa, Driss Mammass, Fathallah Nouboud, Alain Chalifour, Khalid Manchih Keywords: fish, otoliths, shape analysis, otolith recognition, classification, normal angles , Fourier descriptors, 8-connected contour Presentation type: Poster</p>
15:43	<p>CM Code: H:84 Title: Morphological changes of otoliths during the growth of icefish <i>Pseudochaenichthys georgianus</i>, <i>Chaenocephalus aceratus</i> and <i>Champocephalus gunnari</i> Authors: Ryszard Jacek Traczyk Keywords: SGI, ANI, otolith shape, age of icefish, Antarctic fish Presentation type: Poster</p>
15:46	<p>CM Code: H:146 Title: Population of the Commander squid (<i>Beryteuthis magister</i>) in the area of the Northern Kuril Islands: age and life cycle reconstruction Authors: F.V. Lishchenko, A.V. Lishchenko, V.A. Bizikov, M.A. Zuev Keywords: Cephalopoda, <i>Beryteuthis magister</i>, age determination, life cycle, statoliths, Northern Kuril Islands Presentation type: Poster</p>
15:49	Mini break
15:52	<p>CM Code: H:303 Title: Stock identification of <i>Sprattus sprattus</i> within Irish waters using otolith microstructure Authors: Claire Moore, Deirdre Brophy, Maurice Clarke, Rick Officer</p>

Keywords: otolith, sprattus sprattus, microstructure, larval origin
Presentation type: Poster

15:55	<p>CM Code: H:377 Title: Assessing life-cycle and longevity of cold water octopods (Cephalopoda: Octopoda) using growth marks on hard body structures Authors: Richard Schwarz, Hendrik Jan T. Hoving, Uwe Piatkowski, Thorsten Reusch Keywords: octopods, cold water, growth, longevity, beaks, stylets Presentation type: Poster</p>
15:58	<p>CM Code: H:379 Title: You can't swim from the past! Using otolith micro-chemistry to explore range-expansion in gilthead seabream Authors: Jen Lewis, Frank van Veen, Ewan Hunter, Regan Early, Julian Metcalfe Keywords: otolith microchemistry, trace elements, fisheries, habitat, climate change, range expansion Presentation type: Poster</p>
16:01	<p>CM Code: H:396 Title: Synchrony of climate and fish growth patterns based on multidecadal otolith biochronology of the short-lived European flounder (Platichthys flesus) Authors: Szymon Smoliński, Zuzanna Mirny Keywords: climate, biochronology, otolith, Baltic Sea, European flounder, fish growth Presentation type: Poster</p>
16:04	<p>CM Code: H:414 Title: Age validation and growth rate of larval and early juvenile pike (Esox lucius L.) Authors: Dariusz P. Fey, Martyna Greszkiewicz, Adam M. Lejk Keywords: otoliths, daily increments, deposition periodicity, fish growth Presentation type: Poster</p>
16:07	<p>CM Code: H:473 Title: Assessing differences in climate responses between the fourth millennium BP and the present day in Glycymeris glycymeris at St Kilda, Scotland Authors: Stella J. Alexandroff, James D. Scourse, Paul G. Butler Keywords: bivalves, oxygen isotopes, North Atlantic, growth rates, archive Presentation type: Poster</p>
16:10	<p>CM Code: H:532 Title: The use of strontium stable isotope ratios to infer juvenile European Sea Bass (Dicentrarchus labrax) estuarine fidelity and movement within high estuarine habitats Authors: Thomas Stamp, Libby Ross, Tim Robbins, Shaun Plenty, Martin Attrill, Emma Sheehan Keywords: stable isotope, strontium, European Bass (Dicentrarchus labrax) Presentation type: Poster</p>
16:12	<p>CM Code: H:542 Title: Back-casting of adult striped bass otoliths using a random forests model to determine critical coastal nursery habitats Authors: Coley S. Hughes, Roger A. Rulifson Keywords: moronidae, otoliths, elemental signatures, statistical model, critical habitat Presentation type: Poster</p>
16:15	<p>CM Code: H:549 Title: Chemical archives in fishes beyond otoliths: A review on the use of other body parts as chronological recorders of microchemical constituents for expanding interpretations of environmental, ecological, and life-history changes Authors: Orian E. Tzadik, Joseph S. Curtis, Jennifer E. Granneman, Benjamin N. Kurth, Timothy J. Pusack, Amy A. Wallace, David J. Hollander, Ernst B. Peebles, Christopher D. Stallings Keywords: diet, migration, trophic ontogeny, isoscape, element map, calcified structures, fish anatomy, element chronology Presentation type: Poster</p>
16:18	<p>CM Code: H:625 Title: A preliminary test of post-depositional changes in naturally incorporated trace elements in the scales of one group of anadromous Atlantic salmon (Salmo salar L.) Authors: Vidar Moen, Belinda Flem Keywords: fish scales, Atlantic salmon (Salmo salar L.), post-depositional changes in naturally incorporated trace elements Presentation type: Poster</p>
16:21	<p>CM Code: H:626 Title: Multiple alizarin immersion marking of juvenile sea trout Salmo trutta m. trutta L. otoliths as a practice in the stocking program Authors: Adam M. Lejk, Andrzej Martyniak Keywords: salmonids, fluorochromes, alizarin red S, batch marking, Łeba River Presentation type: Poster</p>
16:24	<p>Discussion time</p>
17:00	<p>End of session</p>

Theme session I

Seasonal-to-decadal prediction of marine systems: opportunities, approaches, and applications (co-sponsored by PICES)

Conveners: Mark Payne (Denmark) Desiree Tommasi (USA) Alistair Hobday (Australia)

Monday 19 September 2016, 15:00-19:00, Alfa

Tuesday 20 September 2016, 10:00-13:00, Alfa

Tuesday 20 September 2016, 15:00-16:30, Alfa

Monday 19 September 2016

15:00	Welcome and introductory remarks
15:10	<p>CM Code: I:253 Title: Decadal-scale forecasting of climate drivers for marine applications Authors: Alistair Hobday, Jim Salinger, Richard Matear, Terry O'Kane, James Risbey, J. Paige Eveson, Elizabeth A Fulton, Ming Feng, Eva E. Plaganyi, Elvira Poloczanska, Andrew Marshall, Peter A. Thompson Keywords: climate variability, risk management, models, future Presentation type: Oral</p>
15:25	<p>CM Code: I:652 Title: Skilful near term predictions over the North Atlantic region Authors: Daniela Matei Keywords: climate prediction Presentation type: Oral</p>
15:45	<p>CM Code: I:190 Title: Seasonal forecasting for decision support in marine fisheries and aquaculture Authors: Claire M. Spillman, Alistair J. Hobday, Jason R. Hartog, J. Paige Eveson Keywords: climate variability, seasonal forecasting, risk management, salmon, tuna, prawn Presentation type: Oral</p>
16:00	<p>CM Code: I:239 Title: NOAA Coral Reef Watch's Probabilistic Seasonal Prediction of Shallow-Water Coral Bleaching Thermal Stress for Informing Management Decisions Authors: Gang Liu, C. Mark Eakin, Mingyue Chen, Arun Kumar, Jacqueline L. De La Cour, Erick F. Geiger, Scott F. Heron, William J. Skirving, Kyle V. Tirak, Alan E. Strong Keywords: coral reef, coral bleaching, outlook, risk, stress, sea surface temperature, Coral Reef Watch Presentation type: Oral</p>
16:15	<p>CM Code: I:543 Title: Value of ocean prediction to fisheries management Authors: Desiree Tommasi, Charles Stock Keywords: climate prediction, seasonal forecast, decadal forecast, fisheries management Presentation type: Oral</p>
16:30	<p>CM Code: I:527 Title: Seasonal forecast of the timing of the Maine lobster fishery Authors: Katherine E. Mills, Andrew J. Pershing Keywords: forecasting, seasonal, lobster, climate adaptation Presentation type: Oral</p>
16:45	Sanity break
17:00	<p>CM Code: I:330 Title: Multi-annual forecasts of Bluefin tuna habitat and distribution in the North Atlantic Authors: Mark R. Payne, Daniela Matei, Brian R. MacKenzie Keywords: bluefin tuna, seasonal-to-decadal prediction, biological forecasting, operational ecology, North Atlantic Presentation type: Oral</p>
17:15	<p>CM Code: I:262 Title: Uncovering the environmental processes driving a seasonal migratory species characterized by strong inter annual fluctuations Authors: Cecilia Pinto, Morgane Travers-Trolet Youen Vermard Keywords: INLA, inter annual variation, mullus surmuletus, random effects, seasonal migrations, spatio-temporal models Presentation type: Oral</p>
17:30	<p>CM Code: I:132 Title: Suitability maps to show potential areas of high concentrations of unwanted catch. Can they be a new tool to aid fisheries management? Authors: Smaragda Despoti, K.I. Stergiou, V. Vassilopoulou, A. Machias, A. Kallianiotis, V.D. Valavanis, M. Giannoulaki Keywords: unwanted catch grounds, suitability maps, bottom trawl fishery, generalized additive models, Eastern Mediterranean, satellite environmental parameters Presentation type: Oral</p>
17:45	<p>CM Code: I:276 Title: Forecasting the spawning distribution of blue whiting (<i>Micromesistius poutassou</i>) Authors: Anna K. Miesner, Mark R. Payne Keywords: environmental niche model/species distribution model, blue whiting, spawning distribution, forecasting, survey-design Presentation type: Oral</p>

18:00 **CM Code:** I:421
Title: Collaborative nowcasting of seascape dynamics to develop models for accurate estimates of past and future availability of fish to fisheries and fisheries independent surveys
Authors: John P Manderson
Keywords: Nowcasting seascape dynamics, fishing industry-science partnerships, fishery dependent monitoring, macroecological field methods, model development, integrated ocean observing system
Presentation type: Oral

18:15 **Discussion**

18:45 **End of the day**

Tuesday 20 September 2016

10:00 **Day two introductory remarks**

10:10 **CM Code:** I:240
Title: The Predictability and Prediction Horizon of Population Dynamic Trajectories
Authors: Anna-Simone Frank, Sam Subbey
Keywords: Time-series, predictability, forecast, forecast horizon, stage-structured, biomass
Presentation type: Oral

10:25 **CM Code:** I:242
Title: Deriving Causal Drivers of Population Dynamics on Different Time Scales
Authors: Hiroko Solvang, Sam Subbey Anna-Simone Frank
Keywords: Time-series, modeling, prediction, uncertainty, climate, fisheries dynamics, predator-prey
Presentation type: Oral

10:40 **CM Code:** I:298
Title: When and how can we apply environmental indices that covary with stock dynamics? - A North Sea sandeel case study
Authors: Mikael van Deurs, Lotte Worsøe, Brian R. MacKenzie, Martin Lindegren
Keywords: sandeel, North Sea, recruitment, forecasting, climate, zooplankton
Presentation type: Oral

10:55 **CM Code:** I:351
Title: Investigating Hjort's second hypothesis - how to predict the part who is lost for recruitment?
Authors: Kjersti Opstad Strand, Frode Vikebø, Svein Sundby
Keywords: biophysical model, pelagic juvenile transport, offspring loss, circulation pattern, weather events, recruitment mechanisms
Presentation type: Oral

11:10 **CM Code:** I:655
Title: Assessing the Role of Environmental Factors on Baltic Cod Recruitment, a Complex Adaptive System Emergent Property
Authors: Dionysis Krekoukiotis, Dionysis Krekoukiotis†, Artur Palacz and Michael St. John
Keywords: Baltic cod, recruitment, artificial neural networks
Presentation type: Oral

11:25 **CM Code:** I:272
Title: Applying north Atlantic climate-oceanographic models for forecasting European eel recruitment
Authors: Brian R. MacKenzie, Daniela Matei, Mark R. Payne
Keywords: European eel, recruitment, dynamics, climate, temperature, forecasting, modelling
Presentation type: Oral

11:40 **Sanity break**

11:55 **CM Code:** I:628
Title: Four years on: Insights on forecasting a fish stock decline
Authors: Juan P. Zwolinski, Juan P. Zwolinski and David A. Demer
Keywords: Fish production, PDO, regime shift, harmonic regression
Presentation type: Oral

12:10 **CM Code:** I:601
Title: Ecosystem dynamics and the development of stock-specific scientific advice for fisheries management in the USA
Authors: Patrick D Lynch, Richard D Methot, Stacey Miller, Kristan Blackhart, Kathleen Szleper, Stephen K Brown
Keywords: stock assessment, ecosystem dynamics, climate change
Presentation type: Oral

12:25 **CM Code:** I:654
Title: Predicting Fisher Behavior under Changing Policies, Economics, and Environmental Conditions
Authors: Alan C. Haynie
Keywords: fisher behavior, fleet dynamics, fisheries management, Bering Sea
Presentation type: Oral

12:40 **CM Code:** I:486
Title: Which environmental and human indicators best predict fish community status?
Authors: Danielle Dempsey, Wendy C. Gentleman, Mariano Koen-Alonso, Pierre Pepin
Keywords: ecosystem based fisheries management, ecosystem indicators, neural network analysis, multivariate multiple regression, Grand Bank, Georges Bank
Presentation type: Oral

12:55	Lunch break
15:00	Discussion section and future directions introduction
15:10	CM Code: I:653 Title: Future Directions in Seasonal-to-Decadal prediction of marine ecosystems Authors: Mark Payne, Alistair Hobday, Desiree Tommasi Keywords: ENSO, US West Coast, California Current, El Nino, biological forecasting Presentation type: Oral
15:25	Break-out group discussions
16:00	Plenary discussions and summing up

Theme session J

What is a good pelagic habitat?

Conveners: Mark Dickey-Collas (ICES) Abigail McQuatters-Gollop (UK) Verena Trenkel (France)

Friday 23 September 2016, 09:00-10:30, Beta 2

Friday 23 September 2016, 11:00-13:00, Beta 2

Friday 23 September 2016

09:00	Introduction to session
09:10	<p>CM Code: J:234 Title: Indicators and metrics: What can they contribute to define and monitor pelagic habitats? Authors: V. Trenkel, M. Dickey-Collas, A. McQuatters-Gollop Keywords: MSFD, pelagic habitat, metrics, surveillance indicators, reference points Presentation type: Oral</p>
09:30	<p>CM Code: J:386 Title: Phytoplankton: supporting a good pelagic habitat Authors: Jacqueline Fiona Tweddle, Matthew Gubbins, Beth E. Scott Keywords: primary producers, phytoplankton, ecosystem services, patchiness, marine management Presentation type: Oral</p>
09:45	<p>CM Code: J:432 Title: Better understanding of the state of pelagic habitat through the assessment of plankton functional and phylogenetic diversities Authors: A. Aubert, I. Rombouts, F.A. Artigas, A. MacQuatters-Gollop Keywords: pelagic habitat, plankton, indices, MSFD, diversity, functional diversity, traits, phylogeny Presentation type: Oral</p>
10:10	<p>CM Code: J:573 Title: Mapping the ecological status of the fish community in the pelagic habitat: spatio-temporal trends of size-based indicators in the Baltic Sea Authors: Michele Casini, Filip Käll, Manon Sorais, Niklas Larson Keywords: pelagic habitat, acoustic surveys, food-web indicators, ecosystem state, spatial and temporal variability, MSFD Presentation type: Oral</p>
10:30	Coffee break
11:00	<p>CM Code: J:490 Title: On the lookout for suitable indicators for the Baltic pelagic food web - a potential evaluation framework Authors: Saskia A. Otto, Martina Kadin, Michele Casini, Maria A. Torres, Anna Gårdmark, Magnus Huss, Ingo Fetzer, Thorsten Blenckner Keywords: zooplankton and fish indicators, MSFD Descriptor 4, Central Baltic Sea Presentation type: Oral</p>
11:10	<p>CM Code: J:169 Title: Social-ecological systems in practice – understanding the potential for use in UK marine policy and management (Withdrawn) Authors: Kieran Hyder, Hannah Tidbury, Tiziana Luisetti Keywords: social-ecological models, marine policy, marine management Presentation type: Poster</p>
11:13	<p>CM Code: J:555 Title: Improvement of estimating kilka as the key species of ecosystem in the Caspian Sea Authors: Parviz Zare, Kasatkina Svetlana Keywords: fisheries acoustic Presentation type: Poster</p>
11:16	<p>CM Code: J:590 Title: Supertrait size: suitable, easy-to-measure ecological indicators based on size Authors: Tim Dudeck, Norbert Rohlf, Christian Möllmann, Marc Hufnagl Keywords: size diversity, biodiversity, zooplankton size, normalized biomass size spectrum, English Channel Presentation type: Poster</p>
11:19	Discussion and wrap-up
13:00	End of session

Theme session K

Making marine sediment extraction sustainable by mitigation of related processes with potential negative impacts

Conveners: Ad Stolk (the Netherlands) Keith Cooper (UK) Michel Desprez (France)

Friday 23 September 2016, 11:00-13:00, Omega 1

Friday 23 September 2016, 14:00-17:00, Omega 1

Friday 23 September 2016

11:00	<p>CM Code: K:641 Title: Introduction session Make marine sediment extraction sustainable by mitigation of related processes with potential negative impacts Authors: Ad Stolk Keywords: marine sediment extraction, effect monitoring, resource mapping Presentation type: Oral</p>
11:15	<p>CM Code: K:494 Title: Robust Marine Protected Area designation through the use of marine aggregate sector environmental data Authors: Ian Reach, Stuart Lowe, Mark Russell, Andrew Bellamy, Joseph Holcroft, Louise Mann, Dafydd Lloyd Jones, Rob Langman Keywords: Marine Protected Areas, nature conservation, aggregate dredging, North Sea, data, knowledge, information, designation, palaeochannel, sandbanks, Ross worm, Sabellaria spinulosa reef, black bream, Spondyllosoma cantharus Presentation type: Oral</p>
11:30	<p>CM Code: K:431 Title: Quantifying the resource potential of Quaternary sands on the Belgian Continental Shelf: a 3D voxel modelling approach Authors: Vasileios Hademenos, Lars Kint, Tine Missiaen, Jan Stafleu, Vera Van Lancker Keywords: resource estimation, 3D voxel model, North Sea, sand extraction, sustainability Presentation type: Oral</p>
11:45	<p>CM Code: K:417 Title: Identifying, assessment and adaptive environmental management of environmental effects between UK dredging areas and herring <i>Clupea harengus</i> spawning habitat Authors: Ian Reach, Phil Latto, Dafydd Lloyd Jones, Rob Langman, Caroline Chambers, Iain Warner, Mark Russell Keywords: herring, <i>Clupea harengus</i>, North Sea, spawning area, aggregate dredging, gravel beds, geography, data, knowledge, information, environmental impact, adaptive management Presentation type: Oral</p>
12:00	<p>CM Code: K:639 Title: Marine sand and gravel extraction for Helsinki harbor – monitoring the impact of the extraction works Authors: Jyrki Hämäläinen Keywords: Helsinki, marine aggregate, sand, gravel, extraction, monitoring Presentation type: Oral</p>
12:15	<p>CM Code: K:640 Title: Large scale sand extraction. Monitoring effects on morphology and ecosystem Authors: Ad Stolk Keywords: large scale sand extraction, effect monitoring, suspended matter, recolonization, underwater noise Presentation type: Oral</p>
12:30	<p>CM Code: K:638 Title: Combining measured and visually observed granulometric characteristics in updatable voxel models of seabed sediment Authors: Sytze van Heteren Keywords: seabed-sediment maps Presentation type: Poster</p>
12:35	<p>CM Code: K:412 Title: MSFD-compliant investigative monitoring of the effects of intensive aggregate extraction on a far offshore sandbank, Belgian part of the North Sea Authors: V.R.M. Van Lancker, M. Baeye, D. Evangelinos, G. Montereale-Gavazzi, N. Terseleer, D. Van den Eynde Keywords: Marine Strategy Framework Directive, sediment plumes, gravel beds, North Sea Presentation type: Poster</p>
12:40	<p>Discussion</p>
13:00	<p>Lunch break</p>
14:00	<p>CM Code: K:317 Title: Impact of dredging activity on the distribution and diet of demersal fish species in a commercial marine aggregate extraction site of the eastern Channel (Dieppe, France) Authors: Michel Desprez Keywords: marine aggregate extraction, demersal fish, habitat diversity, trophic relationships Presentation type: Oral</p>
14:15	<p>CM Code: K:94 Title: Ecosystem based design rules for sand extraction sites Authors: Maarten de Jong, Martin Baptist, Bas Borsje, Daan Rijks Keywords: deep sand extraction, macrozoobenthos, hydrodynamics, ecosystem Presentation type: Oral</p>

14:30	<p>CM Code: K:380 Title: Relation between dredging intensity and frequency and its impact on a benthic sandy habitat Authors: Annelies De Backer, Kris Hostens Keywords: macrobenthos, dredging intensity, structural and functional characteristics, Belgian part of the North Sea Presentation type: Oral</p>
14:45	<p>CM Code: K:315 Title: The role of extraction strategy on the recovery of biological communities in two French sites of marine aggregate extraction in the eastern Channel. Management implications for sustainability Authors: Michel Desprez Keywords: marine aggregate extraction, benthos and fish recovery, eastern Channel, sustainability Presentation type: Oral</p>
15:00	<p>Discussion</p>
15:15	<p>CM Code: K:172 Title: Marine aggregate dredging: a new monitoring approach to meet the needs of the Marine Strategy Framework Directive Authors: Keith Cooper, Jon Barry, Claire Mason Keywords: aggregate, dredging, benthos, macrofauna, sediments, recovery, monitoring, sea-floor integrity Presentation type: Oral</p>
15:30	<p>CM Code: K:617 Title: Optimization of monitoring and modelling frameworks to mitigate negative effects of aggregate extraction, Belgian part of the North Sea Authors: Nathan Terseleer, M. Roche, K. Degrendele, D. Van den Eynde, V.R.M. Van Lancker Keywords: monitoring, modelling, resource mapping, management plan, sustainable extraction, Marine Strategy Framework Directive Presentation type: Oral</p>
15:45	<p>CM Code: K:469 Title: Minimisation of the impact of sand extraction on the Belgian part of the North Sea by the introduction of a newly defined reference surface. Authors: Koen Degrendele, Marc Roche Keywords: sand extraction, sustainable, reference surface, minimization of impact Presentation type: Oral</p>
16:00	<p>CM Code: K:346 Title: Changes in bottom shear stress, due to aggregate extraction, in the area of the Hinder Banks (Belgian Continental Shelf) Authors: Dries Van den Eynde, Matthias Baeye, Michael Fettweis, Frederic Francken, Vera R.M. Van Lancker Keywords: bottom shear stress, Marine Strategy Framework Directive, modelling, sustainable extraction Presentation type: Oral</p>
16:15	<p>CM Code: K:275 Title: Developments in cumulative impact assessment from a marine minerals extraction view Authors: Jan A. van Dalssen Keywords: mineral extraction, cumulative impacts assessment Presentation type: Oral</p>
16:30	<p>Discussion and wrap up</p>
17:00	<p>End of session</p>

Theme session L

Integration challenges in maritime spatial planning – approaches, science gaps, and communication demands

Conveners: Andreas Kannen (Germany) Matt Gubbins (UK) Michael Gilek (Sweden)

Tuesday 20 September 2016, 17:00-18:00, Omega 1

Wednesday 21 September 2016, 08:30-10:00, Omega 1

Wednesday 21 September 2016, 10:30-13:00, Omega 1

Tuesday 20 September 2016

17:00 Introduction to session

CM Code: L:241

Title: Integration in Baltic Sea MSP: What role does it really play?

17:10 Authors: Fred Saunders, Michael Gilek, Björn Hassler, Ralph Tafon, Kira Gee, Jacek Zaucha

Keywords: marine spatial planning, integration, social science, Baltic Sea Region, transnational

Presentation type: Oral

CM Code: L:156

Title: Quality of cross-border collaboration in maritime spatial planning – an evaluation framework

17:25 Authors: Riku Varjopuro, Gunnar Lindberg, Janne Rinne, Heidi Lusenius

Keywords: maritime spatial planning, cross-border collaboration, evaluation, quality management

Presentation type: Oral

CM Code: L:619

Title: Towards integration and transnational collaboration in Baltic Marine Spatial Planning – Lessons learned from the Baltic Scope project

17:40 Authors: Andrea Morf, Alberto Giacometti, Michael Kull, John Moodie

Keywords: Baltic Sea, Baltic Scope, integration, lessons learned, marine spatial planning, transnational collaboration

Presentation type: Oral

18:00 End of day

Wednesday 21 September 2016

CM Code: L:186

Title: Marine spatial planning as a tool to enable adaptive governance: implications for practice and evaluation

08:30 Authors: Lucy Greenhill

Keywords: marine spatial planning, adaptive management, adaptive governance, dialogue, sustainability

Presentation type: Oral

CM Code: L:447

Title: Ocean-scape designing by vectors of citizen's consciousness: a practical case study from the Tokyo Bay of Japan

08:45 Authors: Hiroaki Sugino, Nobuyuki Yagi, Yutaka Michida

Keywords: ocean-scape designing, citizen's consciousness, forging consensus, free-writing questionnaire, text mining

Presentation type: Oral

CM Code: L:586

Title: Integrating effective fisheries consultation in marine spatial management

09:00 Authors: Andrew Minkiewicz, Richard Robins

Keywords: marine spatial planning, maritime spatial planning, fisheries consultation, best management practices, stakeholder integration, conflict resolution

Presentation type: Oral

CM Code: L:620

Title: Identifying risk and opportunities resulting from multiple activities under a changing climate: A case study in the South and East Marine Plan Areas, UK

09:15 Authors: Silvana Birchenough, Simon Jude, Andrew Gill, Stephen Dye, Paul Buckley, Bryony Townhill, John, K. Pinnegar

Keywords: marine spatial planning, climate change, risks, opportunities, human activities.

Presentation type: Oral

CM Code: L:360

Title: Using Species Distribution Models to predict king scallop (*Pecten maximus*) distribution along the East coast of Scotland

09:30 Authors: Stanley Mastrantonis, Andronikos Kafas, Anne McLay, Lynda Blackadder, Helen Dobby, Laura Williamson, Beth Scott

Keywords: SDM, king scallop, marine spatial management, machine learning algorithms

Presentation type: Oral

CM Code: L:437

Title: Assessing the significance of fishing and natural disturbance at local scales

09:45 Authors: S.F. Walmsley, R. Blyth-Skyrme, D. Rodmell, W. Lart, P.S. Weller, N.K. Dewey, D.O. Lambkin, and F.G. O'Neill

Keywords: fishing disturbance, natural disturbance, fishing impacts, numerical modelling

Presentation type: Oral

10:00 Coffee break

CM Code: L:570

Title: Ecosystem based approach in MSP development – Latvian case study

10:30 Authors: Solvita Strake, Ingrida Purina, Madara Alberte

Keywords: Ecosystem based approach, MSP, Baltic Sea

Presentation type: Oral

10:45	<p>CM Code: L:45 Title: Developing an estuarine planning support system: a case study for the Humber Estuary, Eastern England Authors: Jemma-Anne Lonsdale, Mike Elliott, Keith Weston Keywords: ecosystem goods and services, estuarine planning framework, estuary, Humber Presentation type: Oral</p>
11:00	<p>CM Code: L:562 Title: The risks of ignoring culture ecosystem services from marine planning Authors: Rachel Shucksmith, Charlotte Slater Keywords: cultural ecosystem services, marine spatial planning Presentation type: Oral</p>
11:15	<p>CM Code: L:279 Title: Incorporating stakeholders' values in marine spatial planning process Authors: Mirka Laurila-Pant, Annukka Lehtikainen, Samu Mäntyniemi, Riikka Venesjärvi Keywords: stakeholder involvement, social values, cultural values, marine spatial planning Presentation type: Oral</p>
11:30	<p>CM Code: L:604 Title: Interpolating fishing vessel tracks to improve representation of the use of marine space by commercial fisheries in marine spatial planning Authors: Maïly Billet, Andronikos Kafas, Bruce Buchanan, Ian Davies, Matt Gubbins, Coby Needle, Beth Scott Keywords: vessel monitoring systems, marine spatial planning, fishing effort, vessel track interpolation Presentation type: Oral</p>
11:45	<p>CM Code: L:592 Title: Opportunities for improving inclusion of fisheries-based knowledge in marine spatial management practices Authors: Anne Hawkins, Melissa Garren Keywords: marine spatial planning, maritime spatial planning, traditional knowledge, multi-use conflicts, cumulative impacts Presentation type: Oral</p>
12:00	<p>CM Code: L:114 Title: Individual Stress Level Analyses (ISLA) communicate impact of spatial management options on national or local fisheries communities to decision makers Authors: Torsten Schulze, Katell Hamon, Katharina Schulte, Francois Bastardie, Niels Hintzen Keywords: fishing effort, spatial management options, loss of fishing grounds, fisheries revenues Presentation type: Oral</p>
12:15	<p>CM Code: L:575 Title: Spatio-temporal modelling of fishing effort pattern after displacement due to offshore wind developments using INLA Authors: A. Kafas, J. B. Illian, I. M. Davies, B. E. Scott Keywords: Integrated Nested Laplace Approximation, Gaussian Markov Random Fields, fisheries, displacement, offshore wind Presentation type: Oral</p>
12:30	<p>CM Code: L:210 Title: Integrating Quality Management into the Maritime Spatial Planning processes: Estonian case Authors: Robert Aps, Mihhail Fetissof, Madli Kopti, Henn Ojaveer Keywords: Maritime Spatial Planning, Quality Management System, Baltic Sea fishery, performance monitoring, quality evaluation Presentation type: Oral</p>
12:45	Discussion and wrap-up
13:00	End of session

Posters

	<p>CM Code: L:588 Title: Role of MSP in securing investments in offshore wind: application of process quality management tool Authors: Ivana Lukic Keywords: process quality management, MSP, integration, offshore wind Presentation type: Poster</p>
	<p>CM Code: L:645 Title: The Celtic Seas Partnership Authors: Penny Wilson Keywords: MSFD, Good environmental status, Celtic Seas Partnership Presentation type: Poster</p>
	<p>CM Code: L:385 Title: Incorporating ecosystem function into MPA Network planning Authors: M. R. Anderson, M. Koen-Alonso, R. Gregory, N. Wells Keywords: ecosystem function, MPA Network, spatial planning and non-spatial features Presentation type: Poster</p>
	<p>CM Code: L:91 Title: Helping fishers to reduce discards: a spatial approach Authors: Maria Grazia Pennino, Raul Vilela, Xulio Valeiras, Jose M. Bellido</p>

Keywords: discards, RAC-BRT, stakeholder integration.

Presentation type: Poster

CM Code: L:333

Title: Mapping science into management: The CFP connection

Authors: Ernesto Jardim, Iago Mosqueira, Finlay Scott, Chato Osio, John Casey, Maurizio Gibin, Norman Graham, Ken Patterson

Keywords: CFP, management, scientific advice, policy decision, management units, biological entity

Presentation type: Poster

CM Code: L:621

Title: Incorporating ecosystem function into MPA Network planning

Authors: M. Robin Anderson, M. R. Anderson, M. Koen-Alonso, R. Gregory, N. Wells

Keywords: ecosystem function, MPA Network, spatial planning and non-spatial features

Presentation type: Poster

CM Code: L:314

Title: The Amsterdam Effect: multiple stakeholder cooperation for successful management of sharks and rays

Authors: Paddy Walker, Irene Kingma, Dale Rodmell

Keywords: landing obligation, group-TAC, prohibited species, spatial management, tagging, sharks and rays, multiple stakeholders, social ecological model

Presentation type: Poster

Theme session M

The role of zooplankton in exploited ecosystems: top-down and bottom-up stresses on pelagic food webs

Conveners: Angus Atkinson (UK) Webjoern Melle (Norway) Piotr Margoński (Poland)

Thursday 22 September 2016, 10:00-13:00, Beta 2

Thursday 22 September 2016, 15:00-16:30, Beta 2

Thursday 22 September 2016, 17:00-18:30, Beta 2

Thursday 22 September 2016

10:00	Introduction
10:10	CM Code: M:642 Title: Sensitivity of marine copepods to bottom-up and top-down forcing Authors: Rubao Ji Keywords: plankton, copepods, modeling, top-down, bottom-up Presentation type: Oral
10:25	CM Code: M:576 Title: Primary productivity – an important structuring variable in marine plankton food webs Authors: Tore Johannessen Keywords: primary productivity, predator-prey synergism, zooplankton, phytoplankton, nanoflagellates, bacteria, phages, nutrient cycling, eutrophication Presentation type: Oral
10:40	CM Code: M:139 Title: Recent change in the long-term dynamics of copepods influence the pelagic food web structure in the Gulf of Riga Authors: Gunta Rubene, Didzis Elferts, Ivars Putnis Keywords: Baltic Sea, copepods, Eurytemora affinis, Limnocalanus macrurus, herring, pelagic foodweb Presentation type: Oral
10:55	CM Code: M:480 Title: Impact of cyanobacteria on the mesozooplankton trophic structure and amino acid metabolism in the Central Baltic Sea Authors: Elvita, Dirk Wodarg, Iris Liskow, Detlef Schulz-Bull, Natalie Loick-Wilde Keywords: stable isotopes, compounds-specific isotope analysis, amino acids, trophic structure, diazotrophic nitrogen, foodwebs, Central Baltic Sea Presentation type: Oral
11:10	CM Code: M:448 Title: Potential impact zooplankton prey preferences on the estimation of mesoscale zooplankton processes. Authors: Richard B. Rivkin, M. Robin Anderson Keywords: foodweb, phytoplankton, ingestion, microzooplankton, zooplankton Presentation type: Oral
11:25	CM Code: M:151 Title: The structure and some features of the mathematical model for study of the influence food preferences of zooplankton on the dynamic behaviour of N–P–Z–D plankton food web Authors: Konstantin Podgornyj, Olga Dmitrieva Keywords: mathematical modeling, plankton food webs, N–P–Z–D model, types of dynamic regimes, bifurcations, periodic and chaotic oscillations Presentation type: Oral
11:40	CM Code: M:261 Title: Long-term dynamics of small copepods in a coastal area of the Baltic Sea Authors: Riina Klais, Saskia Otto, Marilyn Teder, Mart Simm, Henn Ojaveer Keywords: Eurytemora affinis, Acartia spp., Pärnu Bay (Gulf of Riga), hydroclimate forcing, predation Presentation type: Oral
11:55	CM Code: M:376 Title: The role of zooplankton as central trophic level in the “wintery” English Channel: environmental drivers, size and herring larvae from 1988 to 2016 Authors: Tim Dudgeon, Norbert Rohlff Christian Möllmann Marc Hufnagl Keywords: size-spectrum, English Channel, herring larvae, long-term time-series analysis, bottom-up effects Presentation type: Oral
12:10	CM Code: M:267 Title: Large scale ocean connectivity and body size Authors: Ernesto Villarino, Watson, Gasol, Salazar, Acinas, Estrada, Massana, Giner, Pernice, Olivar, Citores, Corell, Rodriguez - Ezpeleta, Jönsson, Acuña, Molina, Gonzalez-Gordillo, Cuesta, Agusti, Fraile-Nuez, Arrieta, Mayol, Duarte, Irigoien, Guillem, Chust Keywords: Malaspina, body-size, connectivity, global, β -diversity, oceanic, pelagic Presentation type: Oral
12:25	CM Code: M:65 Title: A statistical regression approach to estimate zooplankton mortality rates Authors: Kristina Øie Kville, Leif C. Stige, Irina Prokopchuk, Øystein Langanen Keywords: Calanus finmarchicus, mortality, predation, statistical regression approach, top-down control, vertical life table Presentation type: Oral

12:40	<p>CM Code: M:374 Title: Zooplankton in the Baltic Sea food web – testing indicator parameters using signal detection theory Authors: Susanna Jernberg, Maiju Lehtiniemi, Laura Uusitalo Keywords: zooplankton, indicator, mean size, abundance, copepods, signal detection theory Presentation type: Oral</p>
13:00	Lunch
15:00	<p>CM Code: M:364 Title: The role of temperature as a proxy for prey availability Authors: Dafne Eerkes-Medrano, Kathryn B. Cook Peter J. Wright Keywords: temperature, food web, kittiwakes, Rissa tridactyla, sandeel, Ammodytes marinus, Calanus finmarchicus, Calanus helgolandicus Presentation type: Oral</p>
15:15	<p>CM Code: M:231 Title: Intraguild predation of Atlantic mackerel on early life stages of anchovy and sardine Authors: Eneko Bachiller, Elsa Cuende, Paula Álvarez, Almudena Fontán, Naiara Rodriguez-Ezpeleta, Unai Cotano Keywords: Scomber scombrus, intraguild predation, ichthyoplankton, spatial overlap, stomach contents, metagenetics Presentation type: Oral</p>
15:30	<p>CM Code: M:176 Title: Clupeids in the Irish Sea: Evidence of food mediated density-dependent control of an abundant forage species Authors: S.E. Beggs, P.J. Schon, I. McCausland Keywords: Sprattus sprattus, condition factor, Irish Sea, density-dependent growth Presentation type: Oral</p>
15:45	<p>CM Code: M:622 Title: Population cycles of Antarctic krill Authors: Alexey Ryabov , A. M. de Roos, B.Meyer, S.Kawaguchi, B.Blasius Keywords: Euphausia superba, population cycles, ontogenetic models Presentation type: Oral</p>
16:00	<p>CM Code: M:159 Title: Zooplankton and fish: revealing key processes in predator–prey dynamics in the Barents Sea Authors: Leif Chr. Stige, Kristina Ø. Kvile, Øystein Langangen Keywords: zooplankton, capelin, species interactions, time series, Bayesian state space analysis Presentation type: Oral</p>
16:15	Discussion
16:30	Coffee break
17:00	<p>CM Code: M:337 Title: Diet and consumption of zooplankton by polar cod <i>Boreogadus saida</i> (Lepechin, 1774) in the Barents Sea Authors: Irina Prokopchuk Keywords: polar cod, feeding, consumption, zooplankton, the Barents Sea Presentation type: Oral</p>
17:15	<p>CM Code: M:352 Title: Offshore Wind Farms in the North Sea: Is there an effect on the zooplankton community? Authors: Dominik Auch Keywords: offshore wind farms, zooplankton, triaxus, video plankton recorder, meroplankton Presentation type: Oral</p>
17:30	<p>CM Code: M:630 Title: A view from the south: use of composite time series data to determine how recruitment and mortality modulate krill population size. Authors: Angus Atkinson, , Simeon Hill, Sevrine Sailley, John Bruun, Volker Siegel, Evgeny Pakhomov, Debbie Steinberg, Katrin Schmidt, Christian Reiss, So Kawaguchi Keywords: Antarctic krill, Southern Ocean, southern annular mode, recruitment, mortality Presentation type: Oral</p>
17:45	<p>CM Code: M:220 Title: Quantification of plankton and fish in offshore wind farms using a novel multibeam echosounder approach. Authors: Dominik Gloe Keywords: planktivorous fish, zooplankton, top-down, offshore wind farm, multibeam echosounder Presentation type: Poster</p>
17:47	<p>CM Code: M:477 Title: Decapod larval communities of the Mediterranean and Atlantic basins Authors: Rita F. T. Pires, Maria Pan, Ignacio A. Catalán, Laura Prieto, A. Miguel P. Santos, Cláudia Faria, Susana Ferreira, Antonina dos Santos Keywords: decapoda, larval transport, connectivity, Algarve, Mediterranean Sea, Strait of Gibraltar Presentation type: Poster</p>
	<p>CM Code: M:497 Title: Size-selective microzooplankton grazing on the phytoplankton in the Curonian Lagoon (SE Baltic Sea)</p>

17:49	<p>Authors: Evelina Grinienė, Harri Kuosa Keywords: Ciliates, pico- and nanophytoplankton, dilution experiments, phytoplankton pigments, predator-prey interactions Presentation type: Poster</p>
17:51	<p>CM Code: M:517 Title: Diel Vertical Migration in Zooplankton: Looking for the Optimal Survival Strategy Authors: Anastasia Nikishina, Andrew Morozov Ludmila Artemieva Keywords: zooplankton diel vertical migration, optimal strategy modelling, copepods Presentation type: Poster</p>
17:53	<p>CM Code: M:526 Title: Zooplankton diversity in Lisbon Bay: seasonal variation and temporal changes in the Portuguese upwelling system Authors: Raquel Marques, João Pastor, Cátia Bartilotti, Rita F. T. Pires, Ana Teresa Pereira, Inês Dias, Lígia Sousa, Antonina dos Santos Keywords: Zooplankton, gelatinous, coastal, species succession, Portugal Presentation type: Poster</p>
17:55	<p>CM Code: M:593 Title: Overfishing of planktivorous fishes and eutrophication may have the same impact on the structure of marine planktonic food webs Authors: Tore Johannessen Keywords: primary productivity, plankton, planktivores, eutrophication, overfishing, energy flow Presentation type: Poster</p>
17:57	<p>CM Code: M:475 Title: Is there a longitudinal plankton abundance gradient in the Levantine? Lessons from Continuous Plankton Recorder preliminary results. Authors: Rana Abu Alhaja, Carlos Jimenez Keywords: Continuous Plankton Recorder, Levantine, Mediterranean, biodiversity Presentation type: Poster</p>
17:59	<p>CM Code: M:479 Title: Food from above: Distribution of zooplankton over a deep water coral community in the Eastern Mediterranean Sea Authors: Rana Abu Alhaja, Carlos Jimenez, Covadonga Orejas Keywords: foodweb, deep water corals, zooplankton, Levantine, Mediterranean, Cyprus Presentation type: Poster</p>
18:01	<p>CM Code: M:112 Title: Trophic control in the Guadalquivir estuary and neighbouring waters of the Gulf of Cadiz Authors: G.F. Carvalho-Souza , M. Llope, F. Baldó, C. Vilas, P. Drake, E. González-Ortegón Keywords: anchovy, mysids, time-series, environmental and anthropogenic drivers Presentation type: Poster</p>
18:03	Discussion
18:30	End of session

Theme session N

Long-term phytoplankton trends in the ICES area: regional distribution, bloom dynamics and response to environmental drivers

Conveners: Alexandra Kraberg (Germany) Eileen Bresnan (UK) Marie Johansen (Sweden)

Friday 23 September 2016, 14:00-17:00, Beta 2

Friday 23 September 2016

14:00	Introduction
14:05	CM Code: N:281 Title: High-resolution monitoring of toxic dinoflagellate species and their biogeographic distribution in the North Atlantic and Polar Seas Authors: Johanna Hessel, Pim Sprong, Urban Tillmann, Bernd Krock, Katja Metfies Keywords: microalgae monitoring, toxic dinoflagellates, rRNA biosensor Presentation type: Oral
14:20	CM Code: N:135 Title: Phytoplankton phenology on the decadal scale: lessons from Helgoland Roads, North Sea Authors: Mirco Scharfe, Karen H. Wiltshire Keywords: phytoplankton, phenology, species-specific differences, climate variability, North Sea, Helgoland Roads time-series Presentation type: Oral
14:35	CM Code: N:382 Title: The use of the IOC-ICES-PICES Harmful Algal Event Database (HAE-DAT) to detect spatial and temporal trends in harmful algal bloom events in UK waters Authors: Eileen Bresnan, Keith Davidson, April McKinney, Steve Milligan, Catherine Belin, Henrik Enevoldsen Keywords: harmful algae, paralytic shellfish toxins, amnesic shellfish toxins, HAE-DAT Presentation type: Oral
14:50	CM Code: N:434 Title: Interannual Chlorophyll a Variability During 2004-2015 in The Eastern part of the Gulf of Finland with Remote Sensing and In-Situ Data Authors: Ekaterina Kochetkova Keywords: chlorophyll a, Remote sensing, in-situ data, eastern part of the Gulf of Finland Presentation type: Poster
14:53	CM Code: N:381 Title: The spring diatom bloom in Scottish waters; regional differences and interannual variation Authors: Eileen Bresnan, Sheila Fraser, L.yndsay Brown, Pablo Leon Diaz, Kathryn Cook, Sarah Hughes, Pam Walsham, Lynda Webster Keywords: phytoplankton, spring bloom, diatoms, Skeletonema Presentation type: Oral
15:08	CM Code: N:71 Title: Seasonal phytoplankton blooms in the North Atlantic linked to the overwintering strategies of copepods Authors: Kevin D. Friedland, Nicholas R. Record, Rebecca G. Asch, Trond Kristiansen, Vincent S. Saba, Ken Drinkwater, Stephanie Henson, Robert T. Leaf, Ryan E. Morse, David G. Johns, Scott I. Large, Solfrid S. Hjøllo, Janet A. Nye, Mike A. Alexander, Rubao Ji Keywords: phytoplankton bloom, phenology, North Atlantic, zooplankton, temperature, diapause Presentation type: Oral
15:13	CM Code: N:484 Title: Phytoplankton community and controlling factors of primary production in the Gulf of Riga (Baltic Sea) Authors: Iveta Jurgensone, Atis Labucis, Ieva Bārda, Anda Ikauniece Keywords: Baltic Sea, Gulf of Riga, environmental changes, phytoplankton, primary production, Myrionecta rubrum Presentation type: Oral
15:18	CM Code: N:331 Title: How skilful are projections of plankton distribution shifts in a changing climate? Authors: Philipp Brun, Thomas Kiørboe, Priscilla Licandro, Mark R. Payne Keywords: climate change, comparative model performance, continuous plankton recorder, copepod, diatom, dinoflagellate, future prediction, positive predictive value, species distribution model, true skill statistic Presentation type: Oral
15:33	CM Code: N:545 Title: Long-term biogeography of key phytoplankton groups in the North Sea in relation to environmental factors and hydrography Authors: Alexandra C. Kraberg, Mirco Scharfe, Eileen Bresnan, Marie Johansen, Claire Widdicombe Keywords: phytoplankton, long-term dynamics, biogeography Presentation type: Oral
15:48	CM Code: N:605 Title: What are Marine Ecological Time Series telling us about the ocean? A status report Authors: Kirsten Isensee, Todd O'Brien, Laura Lorenzoni, Luis Valdes Keywords: phytoplankton, zooplankton, climate change, time series, observation Presentation type: Oral
	CM Code: N:247 Title: SEA TEMPERATURE RISE, CHANGE IN EUTROPHICATION, AND PHYTOPLANKTON COMPOSITION (1987-2013) IN THE SYLT-RØMØ BIGHT, NORTH SEA; GERMANY

16:03 **Authors:** Johannes Rick, Malte Elbrächter, Bryan Manly, Karen Wiltshire

Keywords: phytoplankton composition, time-series, North Sea

Presentation type: Oral

16:18 **Integrating molecular methods into long-term plankton observations.**

16:33 **Discussion**

17:00 **End of the day**

Theme session O

“When is enough, enough?” Methods for optimising, evaluating, and prioritising of marine data collection (co-sponsored by PICES)

Conveners: J.H. Vølstad (Norway) Mike Armstrong (UK) Marie Storr-Paulsen (Denmark) Robyn Forrest (Canada)

Tuesday 20 September 2016, 17:00-18:00, Alfa

Wednesday 21 September 2016, 08:30-10:00, Alfa

Wednesday 21 September 2016, 10:30-13:00, Alfa

Thursday 22 September 2016, 10:00-13:00, Alfa

Tuesday 20 September 2016

17:00 Presentation of theme session by the conveners

CM Code: O:519

Title: Custom-tailored or fit for multi-purpose? Options for (re)designing North Sea fisheries surveys

17:15 Authors: Anne Sell, Julia Wischniewski, Holger Haslob & Francisco Marco-Rius

Keywords: Survey design, stratification, allocation

Presentation type: Oral

CM Code: O:166

Title: Effect of shortening haul durations on a survey's species richness estimates (to be presented by Verena Trenkel)

17:30 Authors: M. Moriarty, A.F. Sell, V. M. Trenkel, Y. Vérin, S.P.R. Greenstreet

Keywords: IBTS, species richness, MSFD, body size, North Sea

Presentation type: Oral

CM Code: O:564

Title: Beyond cod and haddock: challenges for optimizing bottom trawl surveys for ecosystem monitoring

17:45 Authors: V. Trenkel, L. Pawlowski M. Robert

Keywords: IBTS, survey design, community, monitoring

Presentation type: Oral

18:00 End of the day

Wednesday 21 September 2016

CM Code: O:491

Title: Quantifying optimal sampling effort for estimating recruit abundance for juvenile anadromous alewife

08:30 Authors: Matthew T. Devine, Allison H. Roy, Andrew R. Whiteley, Adrian Jordaan

Keywords: anadromous alewives, sampling effort, stock assessment, uncertainty

Presentation type: Oral

CM Code: O:177

Title: Identification of optimal sub-sampling approach for video trawl survey analysis

08:45 Authors: Travis M. Lowery, Greg R. DeCelles, Kevin D.E. Stokesbury

Keywords: underwater camera, flatfish, Georges Bank, trawl survey

Presentation type: Oral

CM Code: O:435

Title: Using simulation to assess the effects of various sampling schemes on estimates of population characteristics of fish from bottom-trawl surveys

09:00 Authors: Paul M. Regular, Fran Mowbray

Keywords: length and age distribution, simulation, spatial correlation, stratified analysis, statistical assessment models, survey design

Presentation type: Oral

CM Code: O:521

Title: Data quality in fisheries science

09:15 Authors: L Duboca, N Billet, J Vigneau, A Vastel, N Goascoz, A Cornou, S Démanèche, J Weiss, M Merzereaud, A Pout, L Clark, M Armstrong, C Chen, K Mahe, M Hansson, A Ribeiro Santos, E Velasco, C Stransky

Keywords: data quality, fishery data, R, fishPi, opensource

Presentation type: Oral

CM Code: O:235

Title: Optimizing otoliths sampling design in fishery-independent surveys for stock assessments

09:30 Authors: Gwladys Lambert, Thomas Hesler, Pete Hulson, Anne Hollowed

Keywords: ageing error, age composition, fishery-independent data collection, length-stratified sampling, otoliths, simple random sampling, stock assessment

Presentation type: Oral

09:45 Discussions

10:00 Coffee break

CM Code: O:511

Title: Evaluating bias in an observer and self-sampling discard programme

10:30 Authors: Chun Chen, Ruben Verkempynck, Edwin van Helmond, Sebastian Uhlmann, Karin van der Reijden

Keywords: discard sampling, bias estimation, self-sampling

Presentation type: Oral

10:45	<p>CM Code: O:170 Title: Modeling length distribution by commercial size category to estimate species catch length composition for stock assessment Authors: M. Azevedo, C. Silva , J.H. Vølstad Keywords: commercial size categories, landings, length composition, Portugal Presentation type: Oral</p>
11:00	<p>CM Code: O:142 Title: Statistical analysis of the sampling design: FishPi case study on the biological sampling of the European hake fishery Authors: Jose Castro, Nuno Prista, Lucia Zarauz, Jose Rodriguez, Manuela Azevedo, Laurent Dubroca, Alastair Pout, Joao Pereira, Chun Chen, Hans Gerritsen, Jon Elson, Ana Ribeiro, Patrik Börjesson, Kirsten Birch Håkansson, Sofie Nimmegeers Keywords: sampling design, simulation analyses, fisheries data collection, regional sampling plans, North-Eastern Atlantic Presentation type: Oral</p>
11:15	<p>CM Code: O:407 Title: Alternative sample designs for the deployment of observers in the North Pacific Authors: Craig Faunce Keywords: sampling design evaluation, simulation, sample allocation, performance metrics, observer programs, fishery analyses Presentation type: Oral</p>
11:30	<p>CM Code: O:589 Title: Which species to sample? An objective method for the selection of species when sampling fish on a market. Authors: Liz Clarke, Alastair Pout, Stephanie Sweeting, Fanyan Zeng, Lynette Ritchie, Peter Clark, Mandy Gault, Harriet Cole Keywords: sampling design, demersal fish, simulation, species selection, market sampling Presentation type: Oral</p>
11:45	<p>CM Code: O:106 Title: Optimizing data collection processes for industry collected gear selectivity data Authors: Tiago Malta, Jordan Feekings, Bent Herrmann, Ludvig Ahm Krag Keywords: selectivity, industry collected data, catch comparison, stochastic simulations Presentation type: Oral</p>
12:00	<p>CM Code: O:263 Title: Evaluating regional designs for the on-shore sampling of North Sea demersal fisheries Authors: Alastair Pout, Liz Clarke, Ana Ribeiro Santos, Jon Elson, Patrik Börjesson, Mary Christman, Kirsten Birch Håkansson, Marie Storr-Paulsen Keywords: sampling design, demersal fish, North Sea, simulation model, design effect, regional sampling, fishPi Presentation type: Oral</p>
12:15	<p>CM Code: O:583 Title: Optimising sampling intensity through observation, not simulation: An example from an at-sea, demersal fishery sampling programme Authors: Pieter-Jan Schön, Mathieu G Lundy Keywords: sampling-at-sea, catch estimates, sampling design, optimisation Presentation type: Oral</p>
12:30	Discussions on commercial catch sampling
13:00	End of session

Thursday 22 September 2016

10:00	<p>CM Code: O:265 Title: How do surveys' variances affect the assessment and management of the Bay of Biscay anchovy? Authors: Andres Uriarte, Sonia Sanchez, Leire Ibaibarriaga Keywords: research survey, observation error, assessment error, simulation study, MSE, anchovy Presentation type: Oral</p>
10:15	<p>CM Code: O:228 Title: Improving the analytical assessment of fish stocks by providing parameters of data quality via InterCatch Authors: Jose Castro, Laurent Dubroca, Jose Rodriguez, Eva Velasco, Paz Sampedro Keywords: fishery-dependent data, quality parameters, stock assessment, InterCatch Presentation type: Oral</p>
10:30	<p>CM Code: O:100 Title: Impact of splitting decisions on reported aggregated catch of two sympatric redfish (Sebastes spp) species on stock status and harvest advice Authors: Daniel E. Duplisea Keywords: redfish, uncertainty, splitting, joint assessment Presentation type: Oral</p>
10:45	<p>CM Code: O:198 Title: Definition of sampling priorities using Global Sensitivity Analysis and Management Strategy Evaluation Authors: Dorleta Garcia, Raul Prellezo Keywords: global sensitivity analysis, management strategy evaluation, sampling Presentation type: Oral</p>
	<p>CM Code: O:238 Title: Evaluation of sampling designs for data-limited populations of Pacific salmon in Canada</p>

11:00	<p>Authors: Carrie Holt Keywords: sampling design, Pacific salmon, uncertainty, closed-loop simulation, metapopulation dynamics Presentation type: Oral</p>
11:15	<p>CM Code: O:136 Title: Can less be more? Effects of reduced frequency of surveys and stock assessments Authors: Fabian Zimmermann, Katja Enberg Keywords: stock assessment, scientific surveys, uncertainty, fisheries management Presentation type: Oral</p>
11:30	<p>CM Code: O:229 Title: Calculating the economic benefits from the fisheries research surveys from indirect methodologies Authors: Raul Pallezo Keywords: Research surveys, Value of information, indirect methodologies Presentation type: Oral</p>
11:45	<p>CM Code: O:353 Title: Inferring the annual, seasonal and spatial distributions of marine species from combined research and commercial vessels' catch rates Authors: Pierre Bourdaud, Morgane Travers-Trolet, Youen Vermard, Xochitl Cormon, Paul Marchal Keywords: spatial distribution, seasonality, commercial data, survey data, Eastern English Channel Presentation type: Oral</p>
12:00	<p>CM Code: O:127 Title: Little data, big impact: using simple data protocols to achieve real-time management goals Authors: Brooke L. Wright, Catherine E. O'Keefe, Steven X. Cadrin Keywords: bycatch, cooperative management Presentation type: Oral</p>
12:15	<p>CM Code: O:117 Title: Geostatistical index standardization improves the performance of stock assessment model: an application to northern shrimp in the Gulf of Maine Authors: Jie Cao, James T. Thorson, R. Anne Richards, Yong Chen Keywords: abundance index standardization, delta-generalized linear mixed model, Gaussian random field, spatial modeling, size-structured assessment model Presentation type: Oral</p>
12:30	<p>CM Code: O:611 Title: When is necessary, already available? Authors: Joel Vigneau, Laurent Dubroca, Youen Vermard, Anne-Sophie Cornou, Sébastien Démanèche, Jérôme Weiss Keywords: fishery data, R, CREDO, data compilation Presentation type: Oral</p>
12:45	Discussions on "value of information"
13:00	End of session

Posters

	<p>CM Code: O:612 Title: ptyx : data compilation at the edge of automation Authors: Laurent Dubroca, L Dubroca, J Vigneau, A Cornou, S Démanèche, J Weiss, M Merzereaud, Y Vermard, M-Rolland, C Villanuova, I Shlaich, L Pawlowski, M Robert, M Lissardy, G Morandeu, M Drogou, SFifas, H Gadenne, P Lorange, C Sarau, T Rouyer, F Gontran Keywords: data compilation, fishery data, ptyx, CREDO, R, opensource, statistical learning Presentation type: Poster</p>
	<p>CM Code: O:145 Title: Strategic use of uncertainty: Regional comparison of fisheries cooperation in the North Pacific and Northeast Atlantic Authors: Robert Blasiak, Jessica Spijkers Keywords: uncertainty, fisheries, comparative study, North Pacific, Northeast Atlantic Presentation type: Poster</p>
	<p>CM Code: O:81 Title: Integrating molecular methods into long-term plankton observations Authors: Rowena Fay Stern, Alex Kraberg, Katja Metfies Keywords: plankton, long-term ecological research sites, molecular, microscopy, survey Presentation type: Poster</p>
	<p>CM Code: O:569 Title: Presenting the MarinEye project –Development and validation of a prototype for multitrophic oceanic monitoring Authors: C. Bartilotti, A. dos Santos, R. Marques, A. Silva, C. Churro, S. Cotrim, H. Ribeiro, A. Mucha, M. Carvalho, C. Almeida, I. Azevedo, S. Ramos, T. Borges, S. Leandro, A. Dias, E. Silva, H. Ferreira, I. Dias, J. Almeida, L. Torgo, N. Dias, P. Jorge, A. Martins, C. Magalhães Keywords: optical sensors, autonomous filtration system, high resolution imaging, acoustic, integrated marine monitoring Presentation type: Poster</p>
	<p>CM Code: O:69 Title: Best-practice for long-term observations of total suspended particulate matter in coastal marine environments Authors: Rolf Riethmüller, Michael Fettweis, Romaric Verney</p>

Keywords: monitoring methodology, suspended particulate matter, turbidity, long-term time-series
Presentation type: Poster

CM Code: O:148

Title: How does minimum sampling size relate to statistical power in stomach content analysis?

Authors: L. Lopez-Lopez, I. Preciado

Keywords: stomach content sampling, diet, minimum sampling size, statistical power, multivariate analysis

Presentation type: Poster

CM Code: O:410

Title: REDUS - an integrated approach to quantifying and communicating uncertainty in stock assessment and management advice

Authors: Erik Olsen, Jon Helge Vølstad, Knut Korsbrekke, Espen Johnsen, Nils Olav Handegard, Gulborg Sjøvik, Daniel Howell, Cecilie Hansen

Keywords: stock assessment, uncertainty, survey design, MSE, harvest control rules

Presentation type: Poster

CM Code: O:440

Title: Technological tools for optimising data collection and management

Authors: Inês Farias, Aida Campos, Artur Rocha, Gabriel David, Guida Camacho, João Castro, Miriam Tuaty Guerra, Ricardo Amorim, Victor Henriques, Antonina dos Santos

Keywords: database management system, collection, storage, semi-automated, open access, seamount

Presentation type: Poster

CM Code: O:430

Title: Performance of alternative assessment methods for Pacific Cod (*Gadus macrocephalus*) in British Columbia: a difficult-to-age species with highly uncertain productivity

Authors: Robyn E. Forrest

Keywords: fishery reference points, harvest control rule, closed-loop simulation, *Gadus macrocephalus*, density-dependent mortality, delay-difference model

Presentation type: Poster

CM Code: O:206

Title: The end of reporting deadlines? Optimising dataflow by harvesting – a case study using open source REST-server technology from SMHI in corporation with ICES

Authors: Patrik Strömberg, Nils Nexelius, Arnold Andreasson

Keywords: data harvesting, REST, abundance, data, open source, environmental, monitoring, open access, API

Presentation type: Poster

Theme session P

Arctic ecosystem services: challenges and opportunities (co-sponsored by AMAP and EU-PolarNet)

Conveners: Candace Nachman (USA) Susanne Kortsch (Norway)

Tuesday 20 September 2016, 10:00-13:00, Beta 2

Tuesday 20 September 2016

10:00	Introduction
10:05	CM Code: P:450 Title: Modelling spatio-temporal variation of surface hydrography in an Arctic shelf sea Authors: Jussi Mäkinen, Jarno Vanhatalo Keywords: spatio-temporal, Arctic shelf sea, surface hydrography, Bayesian inference, uncertainty Presentation type: Oral
10:15	CM Code: P:502 Title: Structure and resilience of the benthic food web across the Canadian Arctic Ocean and the Chukchi sea. Authors: Noémie Friscourt, Christian Nozais, Philippe Archambault Keywords: Canadian Arctic, Chukchi sea, benthos, stable isotopes, Ice Proxy, IP25, trophic structure, resilience Presentation type: Oral
10:25	CM Code: P:433 Title: Regional heterogeneity in climate change impacts on the living marine resources of the Arctic. Authors: Anne B. Hollowed, Wei Cheng, Harald Loeng, Elizabeth Logerwell, Franz Mueter, James Reist Keywords: climate change, ocean temperature, projections, commercial fisheries, vulnerability Presentation type: Oral
10:35	CM Code: P:178 Title: Cod response to past and current warm phases in the seas of Iceland, a time series analysis Authors: Marcos Llope, Niall McGinty, Joël Durant, Leif C. Stige, Guðrún Marteinsdóttir, Nils Chr. Stenseth Keywords: Arctic cod, regime shifts, trophic control, thresholds Presentation type: Oral
10:45	CM Code: P:644 Title: Climate change impacts on the ecosystem services of Arctic cod (<i>Boreogadus saida</i>) Authors: Benjamin J. Laurel, Louise A. Copeman Keywords: climate change, thermal sensitivity, Polar cod, lipids, bioenergetics, biogeography Presentation type: Oral
10:55	CM Code: P:129 Title: Pink salmon as sentinels for climate change in the Arctic Authors: Ed Farley, Wess Strasburger, Jeanette Gann, Kris Ciciel (presented by Candace Nachman) Keywords: Pink salmon, Arctic, integrated ecosystem surveys Presentation type: Oral
11:05	CM Code: P:248 Title: A Bioeconomic Model of Ocean Acidification Challenges in the Baffin Bay/Davis Straight Shrimp Fishery Authors: Brooks A. Kaiser, Lars Ravn-Jonsen Keywords: Baffin Bay/Davis Straight shrimp fishery, ocean acidification, bio-economic modelling Presentation type: Oral
11:15	CM Code: P:268 Title: Socio-economic impacts of ocean acidification and warming on Barents Sea Cod Authors: Martina H. Stiasny, Martin Hänsel, Catriona Clemmesen, Flemming Dahlke, Felix H. Mittermayer, Martin Quaas, Thorsten Reusch, Daniela Storch, Rudi Voss Keywords: Atlantic cod, ocean acidification, climate change, early life stages, recruitment Presentation type: Oral
11:35	CM Code: P:647 Title: SYMBIOSES: a practical risk management tool to integrate fisheries and hydrocarbon activities in the Lofotens and Barents Sea, Norway Authors: Daniel Howell, Jolynn Carroll, Frode Vikebo Keywords: ecosystem, fisheries, oil, oil spill, integrated management Presentation type: Oral
11:45	CM Code: P:280 Title: Towards quantitative oil spill risk assessment in the Arctic sea areas Authors: Maisa Nevalainen, Inari Helle, Jarno Helle Keywords: Arctic, oil spill, food web, functional groups, uncertainty, risk assessment Presentation type: Oral
11:55	CM Code: P:445 Title: Benthic non-indigenous species in ports of the Canadian Arctic: risks associated with global warming and shipping activity Authors: Kimberly Howland, Jessica Goldsmit, Philippe Archambault, David Barber, Guillem Chust, George Liu, Jennifer Lukovich, Chris McKindsey, Ernesto Villarino

Keywords: shipping, climate change, benthic invertebrates, nonindigenous species, species distribution modelling

Presentation type: Oral

12:05	<p>CM Code: P:559 Title: Unique insights from historical fisheries survey logbooks in the Arctic Authors: John K. Pinnegar, Bryony L. Townhill, Georg H. Engelhard Keywords: archive, survey, Svalbard, cod, capelin, climate change Presentation type: Oral</p>
12:15	<p>CM Code: P:405 Title: The Missing Middle: The Need for International Collaboration to Fill Gaps in Central Arctic Ocean Science Authors: Henry P. Huntington, Thomas Van Pelt, Hyoung Chul Shin Keywords: Central Arctic Ocean, fisheries, food web, international collaboration, ecology Presentation type: Oral</p>
12:25	<p>CM Code: P:624 Title: Ballast water of domestic ships as a pathway for the introduction of non-indigenous mesozooplankton in coastal Nunavik, Canada Authors: Pascal Tremblay, André Rochon, Gesche Winkler, Kimberly Howland, Nathalie Simard, Sarah Bailey Keywords: ballast water discharge, non-indigenous species, mesozooplankton, Canadian Arctic, Deception Bay, Port of Quebec, domestic vessels, voluntary ballast water exchange, Strait of Belle Isle, Strait of Jacques Cartier Presentation type: Poster</p>
12:30	<p>CM Code: P:122 Title: An overview of the adequacy of Arctic sea basin data Authors: Belinda J. Kater, Nathalie Steins, Martine J. van den Heuvel-Greve, Peter Thijssen, CJ Beegle-Krause, Oscar Bos, Bart Grasmeyer, Le Griffin, Eline van Onselen, Harriet van Overzee, Gerjan Piet, Andrea Sneekes, Arjan Tuijnder, Pepijn de Vries, Jan Tjalling van der Wal Keywords: Arctic Sea, marine, data, fisheries, offshore wind farms, marine protected areas, climate change, river input, bathymetry, alien species, oil spills, coasts Presentation type: Poster</p>
12:35	<p>CM Code: P:556 Title: Trophodynamics of Atlantic cod (<i>Gadus morhua</i>) on the Greenland continental shelf 2006-2010 and Spitsbergen 2010 Authors: Karl-Michael Werner, Sophia Kochalski, Jerome Chladek, Corinna Schendel, Heino O. Fock Keywords: Greenland, Spitsbergen, trophodynamics, climate change Presentation type: Poster</p>
12:40	Discussion
13:00	End of session

Theme session Q

Harvest control rules: beyond FMSY for an ecosystem approach to fisheries?

Conveners: Didier Gascuel (France) Lisa Borges (Belgium) Dave Reid (Ireland)

Monday 19 September 2016, 15:00-19:00, Beta 2

Monday 19 September 2016

15:00 Introduction

CM Code: Q:495
Title: New Harvest Control Rules for minimizing the impact of fishing in Europe
Authors: Didier Gascuel, Rainer Froese
Keywords: harvest control rules, stock status, fishing impact, selectivity, ecosystem approach
Presentation type: Oral

CM Code: Q:77
Title: Evaluating progress to restore EU fish populations in line with the CFP
Authors: Markus Knigge
Keywords: Reference points, maximum sustainable yield, common fisheries policy, ICES
Presentation type: Oral

CM Code: Q:359
Title: Are FMSY ranges a promising or a dangerous option?
Authors: Clara Ulrich, Anna Rindorf
Keywords: MSY ranges, mixed fisheries
Presentation type: Oral

CM Code: Q:55
Title: The application of pretty good yield ranges to the North Sea multispecies fishery
Authors: Robert B. Thorpe, Simon Jennings
Keywords: pretty good yield (PGY), maximum sustainable yield (MSY), ensembles, multispecies, mixed fisheries, precautionary, stock impairment
Presentation type: Oral

CM Code: Q:102
Title: The MSY objective: the EU's progress so far, and raising the bar
Authors: Liane Veitch, Heather Hamilton, Jenni Grossmann
Keywords: Common Fisheries Policy, maximum sustainable yield, fisheries management, environmental law
Presentation type: Oral

16:25 Discussion

CM Code: Q:340
Title: Targeting sustainable salmon fisheries – what to aim at?
Authors: Maija Holma, Marko Lindroos, Soile Oinonen, Atso Romakkaniemi
Keywords: management regimes, reference points, bioeconomic modeling, salmon fisheries, MSY, MEY
Presentation type: Oral

CM Code: Q:118
Title: Fisheries management under uncertainty using a hybrid instrument
Authors: Helge Berglann
Keywords: asymmetric information, uncertainty, harvest control rule, hybrid instruments, individual transferable quota, dynamic optimization
Presentation type: Oral

CM Code: Q:147
Title: A multi-stock harvest control rule as a step towards an ecosystem based fisheries management
Authors: Dorleta Garcia, Raul Pallezo, Agurtzane Urtizberea, Sonia Sanchez
Keywords: ecosystem based fishery management, harvest control rule, landing obligation, mixed-fisheries.
Presentation type: Oral

CM Code: Q:541
Title: Beyond Fmsy in the Barents Sea and beyond
Authors: D. Howell, G. Dingør, Å. Fotland, B. Planque, A. Aglen, M. Bernreuther, A. Russikh, A. Chetyrkin, R. Tallman, E. Hallfredsson, S. Mehl, S. Tarakanov, Y. Kovalev, N. Yaragina, T. Vollen, D. Vasilyev, A. Harbitz, A. Staby, B. Bogstad
Keywords: beyond Fmsy, Barents Sea, AFWG, HCR
Presentation type: Oral

CM Code: Q:393
Title: Effects of herring fishing strategies on a modelled Northeast Pacific ecosystem
Authors: Szymon Surma, Tony J. Pitcher
Keywords: herring, Pacific herring, *Clupea pallasii*, forage fish, Northeast Pacific, British Columbia, Canada, ecosystem model, Ecosim, EwE, management strategy evaluation, MSE, harvest control rules, HCR, ecosystem-based fisheries management, EBFM, precautionary approach, reference points, Blim, Ftarget, FMSY
Presentation type: Oral

CM Code: Q:533
Title: Effects of trophic and technical interactions on the definition of MSY reference points in a mixed-fisheries ecosystem

17:50	<p>Authors: Morgane Travers-Trolet, Pierre Bourdaud, Youen Vermard Keywords: FMSY, mixed fisheries, trophic interactions, ecosystem model Presentation type: Oral</p>
18:05	<p>CM Code: Q:504 Title: Ecological implications of the Landing Obligation on balanced harvesting in Mediterranean fisheries Authors: M. Hidalgo, L. Rueda, B. Guijarro, E. Massutí, A. Quetglas Keywords: balance harvesting, European hake, discard ban, Mediterranean Sea, size spectra Presentation type: Oral</p>
18:20	<p>CM Code: Q:525 Title: A time-integrated approach to evaluating fishery management performance Authors: Sarah R. Stein, Patrick D. Lynch, Richard D. Methot Keywords: stock Assessment, time-series, ecosystem approach Presentation type: Poster</p>
18:25	<p>CM Code: Q:378 Title: Aged and children first! Challenges in the development of a new selectivity concept for trawl fisheries Authors: Stefanie Haase, Juan Santos, Annemarie Schütz, Bernd Mieske, Daniel Stepputtis Keywords: exploitation pattern, size selection, demersal trawl, cod, bellshape, Baltic Sea Presentation type: Poster</p>
18:30	<p>CM Code: Q:144 Title: Developing an assessment framework for Goose Barnacles (<i>Pollicipes polymerus</i>) incorporating advancements in technology and local ecological knowledge in Clayoquot Sound off the west coast of Canada Authors: Candace Picco, Alex Gagne Keywords: Goose Barnacles, stock assessment, harvest control, biomass estimation, indigenous Presentation type: Poster</p>
18:35	<p>CM Code: Q:119 Title: Interaction between seabirds and trawlers: preliminary insights from the Bay of Biscay Authors: Arkaitz Pedrajas, Maite Louzao, Iñaki Oyarzabal, Iñigo Krug, Mikel Basterretxea, Jon Ruiz Keywords: seabirds, discards, trawlers, fishing policies, Bay of Biscay Presentation type: Poster</p>
18:40	Discussion and wrap up
19:00	End of session

Theme session R

Integrating humanities and social sciences into marine ecosystem management - first steps

Conveners: David Goldsborough (the Netherlands) Jörn Schmidt (Germany) Patricia M. Clay (USA)

Friday 23 September 2016, 09:00-10:30, Omega 2

Friday 23 September 2016, 11:00-13:00, Omega 2

Friday 23 September 2016, 14:00-17:00, Omega 2

Friday 23 September 2016

09:00 Introduction

CM Code: R:643

Title: Evolution of integration of Human Dimensions into WGNARS - challenges and possibilities.

Authors: Patricia M. Clay, Geret DePiper, Sarah Gaichas, Patricia Pinto da Silva

09:05

Keywords: Northwest Atlantic regional sea, integrated ecosystem assessment, integrating human dimensions, ICES indicator framework

Presentation type: Oral

09:20

CM Code: R:553

Title: Towards the development of a process based model of the human dimension; a systems approach to fisheries management

Authors: M. Drexler, R.M. Bailey, E. Carella, M.G. Burgess, S. Saul, C. Dorsett, M. Clemence-McCann, S. Wilcox, R. Cabral, R.L. Axtell, B. Owashi, C. Costello, S.D. Gaines, A. Merkl

Keywords: human dimension, socioeconomic objectives, tradeoffs, fisher behavior, agent based model

Presentation type: Oral

09:35

CM Code: R:143

Title: Building an assessment framework for the Goose Barnacle fishery off the west coast of Vancouver Island: Melding analytical methods with indigenous local knowledge

Authors: Alex Gagne, Candace Picco

Keywords: Goose Barnacles, local knowledge, management, indigenous, First Nation Goose Barnacles; Local Knowledge; management; indigenous; First Nation Goose Barnacles; Local Knowledge; management; indigenous; First Nation

Presentation type: Oral

09:50

CM Code: R:650

Title: The Celtic Seas Partnership

Authors: Penny Wilson

Keywords: MSFD Celtic Seas Partnership

Presentation type: Oral

10:05

CM Code: R:326

Title: Measuring good fisheries governance: Indicators, tools and stakeholders

Authors: Ixai Salvo, Svein Jentoft, Petter Holm, Jahn P. Johnsen, Antonio G. Allut

Keywords: fisheries, governance, indicators, stakeholders, engagement, assessment, measurement

Presentation type: Oral

10:20

Discussion

10:30

Coffee break

11:00

CM Code: R:402

Title: Science for an ecosystem approach: dilemmas in advisory processes

Authors: Sebastian Linke, Kåre Nolde Nielsen, Petter Holm

Keywords: science-policy interactions, scientific advice, credibility, legitimacy, ecosystem approach

Presentation type: Oral

11:15

CM Code: R:442

Title: Uncovering social and ecological changes in recreational fisheries using popular media

Authors: Ruth H Thurstan, John M Pandolfi

Keywords: ecological change, digital media, fishing, historical ecology

Presentation type: Oral

11:30

CM Code: R:89

Title: The Carrot, not the Stick; co-design, testing and buy-in of stakeholders for Real-time incentive fisheries management

Authors: Debbi Pedreschi, Hannes Hoffle, Sarah Kraak, Amos Barkai, Keith Farnsworth, David Reid

Keywords: real-time incentives, fisheries management, stakeholder engagement, management strategy evaluation

Presentation type: Oral

11:45

CM Code: R:218

Title: Food consumption as driver of nutrient inputs into marine environments

Authors: Anders Grimvall, Are Vallin, Eva-Lotta Sundblad

Keywords: societal drivers, food, eutrophication pressure

Presentation type: Oral

CM Code: R:528

Title: Futures for the use of Baltic herring catch in 2040

12:00	<p>Authors: M. Pihlajamäki, S. Sarkki, T.P. Karjalainen Keywords: Baltic Sea scenarios, Baltic herring fisheries, food security and safety, ecosystem-based management Presentation type: Oral</p>
12:15	<p>CM Code: R:603 Title: Tracking underutilized species in Rhode Island, U.S. – Understanding fish as food, not just commodity Authors: Dawn M. Kotowicz, Azure Cygler, Elin Torell, Kristine Beran Keywords: social science, ecosystem understanding, underutilized species Presentation type: Oral</p>
12:30	Discussion
13:00	Lunch break
14:00	<p>CM Code: R:464 Title: Understanding financial risk for fishers and the role of diversification Authors: Sanmitra Gokhale Keywords: risk management, income diversification, fisheries Presentation type: Oral</p>
14:15	<p>CM Code: R:599 Title: Social and natural science integration in the Bering Sea Project: an economist's perspective Authors: Alan C. Haynie Keywords: interdisciplinary research, Bering Sea, fisheries economics Presentation type: Oral</p>
14:30	<p>CM Code: R:409 Title: Strong connections, loose coupling: understanding environmental and social influences on commercial fisheries and subsistence harvests in the Bering Sea ecosystem, Alaska Authors: Henry P. Huntington, Alan Haynie Keywords: Bering Sea, commercial fisheries, subsistence, human-environment connections, ecosystem studies Presentation type: Oral</p>
14:45	<p>CM Code: R:322 Title: Justification theory to explore socio-cultural values related to fish and fisheries: Baltic salmon and herring cases Authors: Suvi Ignatius, Päivi Haapasaari Keywords: common good, human pressure, justification theory, ecosystem-based management Presentation type: Oral</p>
15:00	<p>CM Code: R:581 Title: How to integrate fishermen knowledge and participation to improve the management advice of a deep-sea artisanal fishery Authors: Inês Farias, Teresa Moura, Nuno Veiga, Neide Lagarto, Ivone Figueiredo Keywords: deep-sea fishery, fishermen, self-sampling, co-design Presentation type: Oral</p>
15:15	Discussion
15:30	<p>CM Code: R:425 Title: Balancing Ecology, Economy and Society in two Pioneering Marine National Parks in Scandinavia – Assessing institutional designs and perceived sustainability outcomes five years after establishment Authors: Andrea Morf, Annica Sandström, Sverker C. Jagers Keywords: institutional design, marine protected areas, national parks, participation, ecosystem based management, sustainable development Presentation type: Oral</p>
15:45	<p>CM Code: R:520 Title: Using modeling approach and fishermen's knowledge to define suitable habitat for cusk (Brosme brosme) and evaluate potential economic impacts of conservation Authors: Jocelyn Runnebaum, Yong Chen Keywords: habitat mapping, quantifying suitable habitat, fishermen's knowledge, economic impacts Presentation type: Oral</p>
16:00	<p>CM Code: R:468 Title: The Role of Scientific Advice in Political Decision Making Authors: Esther Schuch Keywords: TAC, scientific advice, uncertainty, decision making Presentation type: Poster</p>
16:05	<p>CM Code: R:256 Title: Global protein demand, marine fish production, and trade-flows in the world of 2050 Authors: Julia Hoffmann, Katrin Kamin, Linda Kleemann, Christian Möllmann, Martin F. Quaas, Jörn O. Schmidt, Guilherme A. Stecher, Justiniano Pinto, Rudi Voss Keywords: food security, shared socio-economic pathways (SSPs), global bio-economic modeling, demand, global trade Presentation type: Poster</p>
16:10	<p>CM Code: R:596 Title: Coastal municipal governance and marine ecosystem management integration: (Withdrawn) Authors: Erika Lagzdina, Raimonds Ernsteins, Ivars Kudrenickis, Janis Ulme, Anita Lontone, Janis Kaulins</p>

Keywords: marine/ coastal management, stakeholders, local development
Presentation type: Poster

16:15 **Discussion**

17:00 **End of the day**
