

Extract from Conference Handbook

Theme Sessions

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Theme Session A
Marine litter (co-sponsored by PICES)

Convener: Thomas Maes, UK, Dick Vethaak, Netherlands, Francois Galgani, France, and
Thomas Terriault, Canada, PICES

Agenda and Order of the Day

Monday 23 September 2013, 15:30–18:30, Kaldalón

- 1) Opening and introduction 15:30
- 2) Appointment of rapporteur
- 3) Presentation of papers

CM code		Time
A:01 Oral	<p>Title: Potential Risks of Aquatic Invasive Species (AIS) associated with Japan Tsunami marine debris</p> <hr/> <p>Authors: Thomas W. Therriault and Cathryn Clarke Murray</p> <hr/> <p>Keywords: invasive species, Japanese tsunami, marine debris, risk assessment, introduction vector, Pacific Ocean, Canada</p>	15:40
A:02 Oral	<p>Title: Trophic and direct transfer of Microplastics into the common shore crab <i>Carcinus maenas</i></p> <hr/> <p>Authors: Andrew Watts, Ceri Lewis, Charles Tyler, and Tamara Galloway</p> <hr/> <p>Keywords: <i>Carcinus maenas</i>, <i>Mytilus edulis</i>, <i>Microplastics</i>, pollution, trophic transfer, direct exposure, CLEANSEA</p>	16:00
A:03 Oral	<p>Title: Consequences of microplastic exposure to copepods</p> <hr/> <p>Authors: Matthew Cole, Pennie Lindeque, Elaine Fileman, Claudia Halsband, and Tamara S. Galloway</p> <hr/> <p>Keywords: microplastics, marine debris</p>	16:20
A:04 Oral	<p>Title: Continuous monitoring of microplastic abundance in the North Atlantic</p> <hr/> <p>Authors: Amy Lusher, Ian O'Connor, and Rick Officer</p> <hr/> <p>Keywords: microplastic, neuston, North Atlantic, marine debris</p>	16:40
A:05 Oral	<p>Title: Microplastics: effects on oyster physiology at adult and larval stages</p> <hr/> <p>Authors: Rossana Sussarellu <i>et al.</i></p> <hr/> <p>Keywords: microplastic, oyster, growth, ingestion</p>	17:00

A:06 Oral	<p>Title: Litter composition on the shelf and upper slope of the Argosaronikos region and the eastern Ionian Sea, as evidenced by MEDITS surveys 1995–2008</p> <p>Authors: E. Lefkadiou, M. Karkani, A. Anastasopoulou, S. Kavadas, G. Christidis, and Ch. Mytilineou</p> <p>Keywords: macro-litter, trawl surveys, Ionian Sea, Aegean Sea</p>	17:20
A:07 Oral	<p>Title: Development of harmonized protocols for the monitoring of marine litter</p> <p>Authors: Georg Hanke, François Galgani, Stefanie Werner, Leo de Vrees, Luigi Alcaro, and David Fleet</p> <p>Keywords: marine litter, marine debris, monitoring protocols, marine strategy framework directive MSFD</p>	17:40
A:09 Poster	<p>Title: Marine litter in the Basque Continental Shelf (Bay of Biscay-NE Atlantic)</p> <p>Authors: Joxe Mikel Garmendia, Ainhize Uriarte, Iñaki Quincoces, and Marina Santurtún</p> <p>Keywords: Marine litter, European Marine Strategy Directive, Continental shelf, Basque Country, Spain, Bay of Biscay</p>	18:00
A:10 Poster	<p>Title: Biofilm formation and development on plastic pellets in the marine environment.</p> <p>Authors: H. F. Thompson, F. Hannah, and P. R. Cowie</p> <p>Keywords: plastic pellets, biofilm, marine pollution, biodegradable plastic, bacteria, diatoms</p>	18:02
A:11 Poster	<p>Title: Can litter be good for the marine environment?</p> <p>Authors: John Thain and Thomas Maes</p> <p>Keywords: macro litter, monitoring, colonising organisms</p>	18:04
A:12 Poster	<p>Title: Introducing FP7 CLEANSEA: towards a clean, litter-free European marine environment through scientific evidence, innovative tools and good governance</p> <p>Authors: Heather A. Leslie <i>et al.</i></p> <p>Keywords: marine litter, plastic, microplastic, monitoring, ecosystem management</p>	18:06
A:13 Poster	<p>Title: The ingestion of microplastics by commercially important marine species from Ireland</p> <p>Authors: Amy Lusher, Ian O'Connor, and Rick Officer</p> <p>Keywords: microplastics, marine debris, ingestion, fish, molluscs</p>	18:08
A:14 Poster	<p>Title: Marine plastic litter as a vector for chemical contamination</p> <p>Authors: L. Devriese <i>et al.</i></p> <p>Keywords: chemical adsorbance, microplastics, marine litter, beach litter, pellet, impact</p>	18:10

A:15 Poster	Title: Impact of polyethylene microspheres feeding on seabass larvae development	18:12
	Authors: D. Mazurais <i>et al.</i>	
	Keywords: microplastic, fish, larvae, development	
A:16 Poster	Title: Microplastic particles in sediments from Danish waters	18:14
	Authors: Jakob Strand and Pia Lassen	
	Keywords: microplastic, sediment, phthalates	
A:17 Poster	Title: Scientists' understanding of public engagement regarding the problem of coastal marine pollution: an anthropological analysis	18:16
	Authors: Marianne Corriveau	
	Keywords: knowledge transfer, field science, public engagement with science, coastal marine pollution, Mediterranean Sea	
A:18 Poster	Title: Marine litter in trawl catches from the deep bottoms of the southeastern Ionian and the Messiniakos Gulf (E. Mediterranean)	18:18
	Authors: Ch. Mytilineou, A. Anastasopoulou, and S. Kavadas	
	Keywords: anthropogenic litter, plastics, marine pollution, Eastern Mediterranean	
	General discussion	18:20
	End of session	18:30

Theme Session B
Responses of living marine resources to climate change and variability: learning
from the past and projecting the future
(co-sponsored by PICES)

Conveners: William W. L. Cheung, Canada, PICES, Myron A. Peck, Germany,
and Vincent Saba, USA

Agenda and Order of the Day

Tuesday 24 September 2013, 11:30–13:00, 14:00–15:30, 16:00–18:00, Norðurljós
 Wednesday 25 September 2013, 10:00–13:00, Norðurljós
 Thursday 26 September 2013, 08:30–10:00, 10:30–13:00, 14:00–15:30, and 16:00–17:30,
 Norðurljós

- 1) Opening and introduction
- 2) Appointment of rapporteur
- 3) Presentation of papers

	CM Code		Time
1)	B:22 Oral	<p>Title: Workshop on global assessment of the implications of climate change on the spatial distribution of fish and fisheries: Part A</p> <hr/> <p>Authors: Anne Hollowed, Myron Peck, and Suam Kim</p> <hr/> <p>Keywords: climate change, modelling, spatial distribution, projection, skill assessment, SICCME</p>	11:30
2)	B:07 Oral	<p>Title: Habitat winners and losers: predictive habitat modelling of OSPAR priority marine habitats</p> <hr/> <p>Authors: Kate Gormley, Joanne Porter, Michael Bell, Angela Hull, and William Sanderson</p> <hr/> <p>Keywords: species distribution modelling, climate change, OSPAR priority marine habitats</p>	11:45
3)	B:14 Oral	<p>Title: Using local climate velocity to guide fisheries adaptation</p> <hr/> <p>Authors: Malin Pinsky, Boris Worm, Thomas Froelicher, Michael Fogarty, Simon Levin, and Jorge Sarmiento</p> <hr/> <p>Keywords: climate velocity, fisheries, climate adaptation, species distribution modeling</p>	12:00
4)	B:18 Oral	<p>Title: Signature and projection of ocean warming effects in global fisheries catch</p> <hr/> <p>Authors: William W. L. Cheung, Reg Watson, and Daniel Pauly</p> <hr/> <p>Keywords: global, climate change, detection, attribution, projection, marine</p>	12:15

		fisheries, catch	
5)	B:03 Oral	Title: From sub-Arctic to high-Arctic Authors: A. Hollowed, B. Planque, and H. Loeng Keywords: climate change, fish migration, Arctic	12:30
		Panel discussion with speakers	12:45
		Lunch break	13:00
6)	B:33 Oral	Title: Modelling the future response of zooplankton species to climate change in the North Atlantic Authors: Ernesto Villarino <i>et al.</i> Keywords: zooplankton, GAM, climate change, Calanus, habitat suitability	14:00
7)	B:79 Oral	Title: Supporting fisheries management under climate change: lessons from the 2012 ocean heat wave Authors: Katherine E. Mills, Andrew J. Pershing, and Jenny C. Sun Keywords: climate change, extreme events, American lobster, predictive modeling, integrated modeling, fisheries management adaptation	14:15
8)	B:39 Oral	Title: Trends in Northwest Atlantic Habitat Occupation: joint effects of climate variation and harvest removals Authors: Christopher M. Martinez, Daniel E. Duplisea, Thomas J. Miller, and Michael G. Frisk Keywords: abundance-occupancy, community, macroecology, fisheries, climate change	14:30
9)	B:46 Oral	Title: Stratification on the northwest Atlantic Shelf: patterns, drivers and implications for plankton production Authors: Rubao Ji, Yun Li, Paula Fratantoni, Changsheng Chen, Jon Hare, Yunfang Sun, Kimberly Hyde, and Cabell Davis Keywords: Northwest Atlantic Shelf; stratification; freshening; warming; plankton	14:45
10)	B:44 Oral	Title: Zooplankton community variability on the Scotian Shelf, northwest Atlantic Authors: Catherine L. Johnson, Dave Hebert, and Pierre Pepin Keywords: Northwest Atlantic, zooplankton, communities, spatial distribution, interannual variability	15:00
		Panel discussion with the speakers	15:15
		Coffee break	15:30
11)	B:47 Oral	Title: Predicting future ecosystem scenarios for the Labrador Sea and the Norwegian/Barents seas: some results from the NORCAN study Authors: K. Drinkwater and P. Pepin	16:00

		Keywords: climate change, ecosystem scenarios, Labrador Sea, Norwegian Sea, Barents Sea	
12)	B:16 Oral	Title: Changes in biomass of macrozoobenthos in the eastern part of the Barents Sea during last century Authors: I. E. Manushin, N. A. Anisimova, P. A. Lyubin, V. S. Vyaznikova, and D. V. Zakharov Keywords: Barents Sea, biomass, benthos, climate	16:15
13)	B:23 Oral	Title: Effects of temperature on zooplankton population dynamics in the Barents Sea vary on a range of temporal, spatial and developmental scales Authors: Nils Chr. Stenseth and Leif Chr. Stige Keywords: zooplankton, temperature, Barents Sea, spatiotemporal analysis, phenology, <i>Calanus finmarchicus</i>	16:30
14)	B:36 Oral	Title: Drivers and mechanisms of long-term changes in spawning ground usage of the Barents Sea cod Authors: Øyvind Fiksen, Anders F. Opdal and Christian Jørgensen Keywords: spawning migration, NEA cod, recruitment variability, drivers and processes	16:45
15)	B:37 Oral	Title: What governs the recruitment of North-east Arctic cod – a review with analysis Authors: Geir Ottersen, Bjarte Bogstad, Natalia Yaragina, Padmini Dalpadado, C. Tara Marshall, Leif Chr. Stige, and Frode Vikebø Keywords: recruitment, cod, Barents Sea, survival, temperature, review	17:00
16)	B:05 Oral	Title: Towards the dominance of Boreal zooplankton in the European Arctic? Authors: Agata Weydmann, Jacob Carstensen, Ilona Goszczko, Katarzyna Dmoch, Anna Olszewska, and Slawomir Kwasniewski Keywords: West Spitsbergen Current, mesozooplankton, <i>Calanus finmarchicus</i> , variation partitioning, long-term monitoring	17:15
17)	B:10 Oral	Title: Recent changes in abundance and feeding ecology of minke whales in Icelandic waters; An indication of climate change? Authors: Gísli A. Víkingsson and Bjarki Þór Elvarsson Keywords: marine mammals, climate change, minke whale, feeding ecology	17:30
		Panel discussion with speakers	17:45

Wednesday 25 September 2013, 10:00–13:00, Norðurljós

18)	B:38 Oral	Title: Impacts of climate-driven changes on coastal marine ecosystem and related good and services	10:00
		Authors: C. Solidoro, S. Libralato, D. Melaku Canu, G. Cossarini, and F. Giorgi	
		Keywords: climate impact, ecosystem indicators, extreme events, downscaling, venice, multi-model, aquaculture	
19)	B:40 Oral	Title: Modelling ocean acidification impact: from biological experiments to economic assessment and social impact	10:15
		Authors: Jose A. Fernandes <i>et al.</i>	
		Keywords: Ocean acidification, Climate change, Marine fisheries, invertebrates, Modelling, economic impacts, ecosystem services	
20)	B:13 Oral	Title: Assessing impacts of changing climate on ecosystem structure in seagrass habitats	10:30
		Authors: Kathryn L. Sobocinski and Robert J. Latour	
		Keywords: trophic interactions, food web, seagrass, Ecopath, climate	
21)	B:29 Oral	Title: Between Scylla and Charybdis: modeling the challenging impacts of climate and fishing on the Chilean jack mackerel	10:45
		Authors: Anne-Cécile Dragon, Inna Senina, and Patrick Lehodey	
		Keywords: Seapodym, Pacific climatic mode, spatial population dynamics, fishery management, <i>Trachurus murphyi</i>	
22)	B:08 Oral	Title: Potential influence of climate change on anadromous river herring in their marine habitat	11:00
		Authors: Janet Nye, Patrick Lynch, Jonathan Hare, Charles Stock, Michael Alexander, Jaime Scott, Kiersten Curti, and Katie Drew	
		Keywords: climate change, Alosa, alewife, blueback herring, habitat suitability, bioclimatic envelope, environmental niche, endangered species, diadromous	
23)	B:06 Oral	Title: Regime shift in an exploited fish community primarily driven by climate, only partly by fishing	11:15
		Authors: Auber Arnaud, Travers-Trolet Morgane, and Ernande Bruno	
		Keywords: regime shift, fish communities, Atlantic Multidecadal Oscillation, fishing, English Channel.	
Panel discussion with speakers			11:30
24)	B:01 Oral	Title: Fisheries impact on Central Baltic Sea fish stocks and ecosystem during the 20th century – preliminary results	11:45
		Authors: M. Tomczak <i>et al.</i>	
		Keywords: Baltic, ecosystem, reconstruction, food-web, indicators	

25)	B:25 Oral	Title: Temporal development of coastal ecosystems in the Baltic Sea – an assessment of patterns and trends	12:00
		Authors: Jens Olsson <i>et al.</i>	
		Keywords: Integrated ecosystem assessment, Multivariate analyses, Ecosystem change, Climate forcing, Eutrophication, Fishing pressure	
26)	B:32 Oral	Title: Impact of climate change on fish population dynamics in the Baltic Sea – a dynamical downscaling investigation	12:15
		Authors: Brian R. MacKenzie, H. E. Markus Meier, Martin Lindegren, Stefan Neuenfeldt, Margit Eero, Thorsten Blenckner, Maciej Tomczak, and Susa Niiranen	
		Keywords: atmosphere-ocean models, Baltic Sea, climate change, temperature, sprat, downscaling	
27)	B:42 Oral	Title: Comparing reconstructed past variations and future projections of the Baltic Sea ecosystem	12:30
		Authors: H. E. Markus Meier <i>et al.</i>	
		Keywords: Baltic Sea, numerical modeling, climate change, eutrophication, scenarios, ensemble modeling, marine biogeochemical cycles, marine food web, Baltic Sea Action Plan, decision support system	
Panel discussion with speakers			12:45

**Thursday 26 September 2013, 08:30–10:00, 10:30-13:00, 14:00–15:30, and 16:00–17:30,
Norðurljós**

28)	B:34 Oral	Title: Spatio-temporal variability of the size spectrum: the effects of fishing and the environment on North Sea fish	08:30
		Authors: Abigail Marshall, John Pinnegar, Tom Webb, and Julia Blanchard	
		Keywords: spatial, temporal, variability, fishing, environment, climate, size spectra, North Sea	
29)	B:19 Oral	Title: Distribution shifts in the North Sea: why is life so complicated?	08:45
		Authors: Georg H. Engelhard, Tina K. Kerby, William W.L. Cheung, and John K. Pinnegar	
		Keywords: distribution shift, climate, fishing, North Sea	
30)	B:21 Oral	Title: Projecting climate-induced range shifts of fish and invertebrates in UK waters and their implications for fisheries	09:00
		Authors: M. C. Jones, S. R. Dye, J. Pinnegar, R. Warren, and W. W. L. Cheung	
		Keywords: Species distribution modelling, climate change, North Sea	
31)	B:04	Title: Impact of projected wind and temperature changes on larval recruitment of sole in the Southern North Sea	09:15

	Oral	Authors: G. Lacroix, D. Van der Zande, G. E. Maes, and F. A. M. Volckaert	
		Keywords: algal bloom timing, climate change scenarios, particle tracking model, <i>Solea solea</i> , North Sea	
32)	B:17 Oral	Title: Modelling the connectivity between spawning and nursery grounds under environmental forcing: application to European Sea Bass in the Northeast Atlantic.	09:30
		Authors: R. López, M. Huret, L. Pecquerie, M. Bertignac, S. Mahévas, and H. de Pontual	
		Keywords: modelling, connectivity, climate change, dispersal kernel, European Sea Bass, environment forcing, nursery settlement, Dynamic Energy Budget.	
		Panel discussion with speakers	09:45
		Coffee break	10:00
33)	B:50 Oral	Title: Place-based forecasting: future fisheries under climate change	10:30
		Authors: Jake Rice and Daniel Duplisea	
		Keywords: None	
34)	B:02 Oral	Title: Historical diets, food web dynamics and climate change in the Arctic	10:45
		Authors: Bryony L. Townhill, and John K. Pinnegar	
		Keywords: climate change, Arctic, food web, Atlantic cod, fisheries, Bear Island	
35)	B:20 Oral	Title: Krill, climate, and contrasting future scenarios for Arctic and Antarctic fisheries	11:00
		Authors: Margaret M. McBride <i>et al.</i>	
		Keywords: Polar Regions, climate change, food webs, zooplankton, fish, fisheries	
36)	B:43 Oral	Title: Modeling climate effects on the dispersal and distribution of early life stages of walleye pollock over the eastern Bering Sea Shelf	11:15
		Authors: C. M. Petrik, J. T. Duffy-Anderson, F. Mueter, K. Hedstrom, S. Danielson, E. Curchitser, and S. Barbeaux	
		Keywords: walleye pollock, Bering Sea, individual-based model, biophysical model, climate change	
37)	B:12 Oral	Title: Changes in the state of highly abundant fish stocks as a response to the West Pacific pattern regime shifts	11:30
		Authors: Boris N. Kotenev and Andrei S. Krovnin	
		Keywords: West Pacific pattern, regime shift, walleye pollock, Far East salmon, Japanese sardine	
		Panel discussion with speakers	11:45
38)	B:30 Oral	Title: On the predictive potential of spatially-explicit IBMs: Can larvae fish IBMs be used to predict recruitment success, results from a multi-decadal simulation of Atlantic cod (<i>Gadus morhua</i>) in the North Sea	12:00

		Authors: Ute Daewel and Corinna Schrum	
		Keywords: spatially-explicit IBM, North Sea, Atlantic cod, long-term modelling, recruitment	
39)	B:31 Oral	Title: Explaining variation in life history timing across a species' range: Spawning time in an exploited marine fish	12:15
		Authors: Anna B. Neuheimer and Brian R. MacKenzie	
		Keywords: phenology, macroecology, evolutionary biology, climate change, cod	
40)	B:49 Oral	Title: Historical samples reveal the population history of Atlantic cod (<i>Gadus morhua</i>) in medieval and early modern Iceland	12:30
		Authors: Guðbjörg Ásta Ólafsdóttir, Kristen M Westfall, Ragnar Edvardsson, William P Patterson, Gróa Pétursdóttir and Snæbjörn Pálsson	
		Keywords: atlantic cod, climate change, coalescent modelling, historical DNA, population size,	
41)	B:15 Oral	Title: Population of the Atlanto-Scandian herring, the present and the past	12:45
		Authors: A. I. Krysov and M. O. Rybakov	
		Keywords: herring, migrations, stock structure, feeding, reproductive potential, age, condition factor.	
		Lunch break	13:00
42)	B:11 Oral	Title: Management of the Bay of Biscay anchovy under climate change	14:00
		Authors: Sonia Sánchez, Leire Ibaibarriaga, Marina Chifflet, Andrés Uriarte, Xabier Irigoien, and Guillem Chust	
		Keywords: anchovy, Bay of Biscay, climate change, recruitment, upwelling index, management strategy evaluation	
43)	B:48 Oral	Title: Stock-dependent forcing in stock and recruitment relationships	14:15
		Authors: Brian J. Rothschild and Yue Jiao	
		Keywords: stock and recruitment, climate change, sensitivity	
44)	B:45 Oral	Title: Externally driven changes in the stock-recruitment relationship	14:30
		Authors: Richard Bell and Jon Hare	
		Keywords: thermal habitat, time-varying parameters, temperature dependent recruitment	
45)	B:28 Oral	Title: Non-stationary synchrony and asynchrony in the deep sea driven by climate variability and populations spatial structure	14:45
		Authors: M. Hidalgo, L. Rueda, J. M. Molinero, B. Guijarro, and E. Massutí	
		Keywords: spatial synchrony, ecological responses to climate, deep-sea ecosystems, red shrimp, Mediterranean Sea	
46)	B:09	Title: Modelling the response of <i>Zostera noltii</i> seagrass and saltmarshes to	15:00

	Oral	climate change	
		Authors: Mireia Valle, Guillem Chust, Andrea del Campo, Joxe Mikel Garmendia, and Ángel Borja	
		Keywords: species-distribution models, hydromorphological model, sea-level rise, projections	
47)	B:26 Oral	Title: Shifts in the beginning of spawning time of the Baltic sprat in current period: reasons and possible consequences	15:15
		Authors: E. M. Karasiova	
		Keywords: sprat, beginning of spawning time, saline and warm inflows	
		Coffee break	15:30
48)	B:27 Oral	Title: Modeling climate change and variability effects in the Bay of Biscay ecosystem using ROMS-N2P2Z2D2-OSMOSE model	16:00
		Authors: M. Chifflet, L. Ferrer, I. Fraile, and G. Chust	
		Keywords: end-to-end modelling, Bay of Biscay, climate change	
		Panel discussion with speakers	16:15
		Posters presentations (1–2 minutes each)	16:30– 17:30
	B:35 Poster	Title: Impact of the 2012 Ocean Heat Wave on fish and fisheries	
		Authors: Andrew J. Pershing, Katherine E. Mills, Andrew C. Thomas, and Richard A. Wahle	
		Keywords: climate change, extreme events, sea surface temperature, North Atlantic, American lobster, phenology, fisheries management adaptation	
	B:51 Poster	Title: Freshwater acidic inputs on the coastal ocean alter growth, net calcification and periostracum chemical composition of marine bivalves	
		Authors: Laura Ramajo, Alejandro Rodriguez-Navarro, Luis Prado, Nazaret Dominguez-Gasca, Rodrigo Torres, and Nelson A. Lagos	
		Keywords: freshwater input, calcification, mineralization, phenotypic plasticity, ocean acidification	
	B:52 Poster	Title: Back to the Future – Temporal trends and driving environmental factors in zoobenthic progression over the last 40 years around the Åland Islands, northern Baltic Sea	
		Authors: Benjamin Weigel, Martin Snickars, Erik Bonsdorff	
		Keywords: benthic fauna, climate change, environmental stressors, coastal communities	
	B:53 Poster	Title: Effects of ocean warming on size frequency distributions of fish in the Northeast Atlantic Ocean	
		Authors: Harry Harding, Louise Rutterford, Simon Jennings, and Steve Simpson	

Keywords: Size distributions, fisheries, catchability, ocean warming, fishing pressure

B:54 **Title:** Effects of temperature and food on larval cod survival: a model for
Poster behaviour in vertical gradients

Authors: Nadia Fouzai, Anders F. Opdal, Christian Jørgensen, and Øyvind Fiksen

Keywords: larval cod, optimal behaviour, growth, survival, recruitment, individual-based model, trade-off

B:55 **Title:** Year-to-year biomass variations and distribution of small pelagic fish in
Poster the Canary Upwelling region in 1994–2013 in relation to observed climate changes

Authors: P. Chernyshkov and N. Timoshenko

Keywords: biomass; fish; habitat; pelagic; subregion 41; variations

B:57 **Title:** Past, Present, And Future Of North Atlantic Albacore Tuna
Poster

Authors: Inna Senina, Anne-Cécile Dragon, Beatriz Calmettes, and Patrick Lehodey

Keywords: ecosystem modelling, population forecasts, IPCC climatic scenario, *Thunnus alalunga*

B:58 **Title:** Climate change: How does this influence on eutrophication of the
Poster lagoons and coastal zone of the Baltic Sea?

Authors: Sergey Aleksandrov

Keywords: climate change, eutrophication, lagoon, primary production, the Baltic Sea

B:59 **Title:** Estimation of latitudinal shift of *Calanus* from 1959 to 2004 using
Poster generalized additive models

Authors: Guillem Chust, Claudia Castellani, Priscilla Licandro, Leire Ibaibarriaga, Yolanda Sagarminaga, and Xabier Irigoien

Keywords: zooplankton, GAM, climate change, *Calanus*, habitat suitability

B:60 **Title:** Shrinking of fishes exacerbates impacts of global ocean changes on
Poster marine fisheries

Authors: William W.L. Cheung *et al.*

Keywords: global, warming, oxygen, marine fishes, body size, growth

B:61 **Title:** Year-to-year variations in water structure of the South Pacific based on
Poster the data of “Argo” Project buoys studied in relation to horse mackerel (*Trachurus murphy*) populations

Authors: E. V. Borodin and P. P. Chernyshkov

Keywords: buoys, horse mackerel, water structure

B:63 **Title:** Workshop on Global Assessment of the Implications of Climate Change

Poster	<p>on the Spatial Distribution of Fish and Fisheries: Part B</p> <hr/> <p>Authors: Peck, placeholder for other workshop participants</p> <hr/> <p>Keywords: climate change, modelling, projection, human communities, communication, management, policy</p>
B:64 Poster	<p>Title: Using the bivalve <i>Portlandia arctica</i> as an indicator of environmental variations within fjords (Labrador, Canada)</p> <hr/> <p>Authors: Katrine Chalut, Philippe Archambault and Christian Nozais</p> <hr/> <p>Keywords: Bivalves, marine archive, environmental variations, sclerochronology</p>
B:66 Poster	<p>Title: The effects of environmental variables on catch of banana prawns in the Australian Gulf of Carpentaria</p> <hr/> <p>Authors: Simone Valle de Souza and Cedric Gondro</p> <hr/> <p>Keywords: catch-effort model, water temperature, air temperature, environmental effects, banana prawns, Gulf of Carpentaria, rainfall effect, moon effect</p>
B:67 Poster	<p>Title: Kelp forest as a habitat for mobile epifauna, case study of <i>Caprella septentrionalis</i> Kröyer, 1838 (Amphipoda, Caprellidae) in an Arctic glacial fjord</p> <hr/> <p>Authors: Marta Ronowicz, Joanna Legeżyńska, Piotr Kukliński, Maria Włodarska-Kowalczyk</p> <hr/> <p>Keywords: Arctic, Amphipoda, macroalgae, global warming, population structure, ecology</p>
B:68 Poster	<p>Title: Long-term dynamics of pelagic flounder egg abundance: whether was there an epoch of flounder in the Baltic Sea?</p> <hr/> <p>Authors: E. M. Karasiova</p> <hr/> <p>Keywords: egg abundance, spawning habitats, peak spawning time coincidence</p>
B:69 Poster	<p>Title: Contrasting shifts in abundance and distribution of southern vs. northern groundfish species on the Icelandic shelf</p> <hr/> <p>Authors: Jón Sólmundsson and Höskuldur Björnsson</p> <hr/> <p>Keywords: climate change, Iceland, groundfish, distribution, abundance</p>
B:70 Poster	<p>Title: Climate change and the fishery in Russia-2025</p> <hr/> <p>Authors: Oleg Bulatov</p> <hr/> <p>Keywords: walleye pollock, pacific salmon, herring Total Allowable Catch</p>
B:72 Poster	<p>Title: Trawling Through Time: old data, new insights</p> <hr/> <p>Authors: Georg H. Engelhard, J. David Pattison, Kieran Hyder, John K. Pinnegar, and Ewan Hunter</p> <hr/> <p>Keywords: shifting baseline, fish, historical, long-term, multidecadal, North Sea</p>

Poster	current state
	<hr/> Authors: M. W. Pedersen <i>et al.</i> <hr/>
	Keywords: Climate change, research trends, North Atlantic, network analysis, publication trends
B:82 Poster	Title: Environment induced changes in krill abundance in the North Atlantic Ocean
	<hr/> Authors: Teresa Silva, Astthor Gislason, Gudrun Marteinsdottir, and Olafur S. Astthorsson <hr/>
	Keywords: krill, long-term changes, North Atlantic
B:83 Poster	Title: Interannual variability in abundance of <i>Calanus finmarchicus</i> south and north of Iceland in relation to environmental conditions in spring 1990–2012
	<hr/> Authors: Astthor Gislason, Hildur Petursdottir, Kristinn Gudmundsson, and Teresa Silva <hr/>
	Keywords: Long-term changes, <i>Calanus finmarchicus</i> , Icelandic waters
B:85 Poster	Title: Mesoscale dynamics of Antarctic waters of the Atlantic as a factor for formation of Antarctic krill agglomerations in conventional fishing grounds in the Scotia Sea
	<hr/> Authors: D. A. Churin and P. P. Chernyshkov <hr/>
	Keywords: antarctic krill, drifting buoys, mesoscale vortexes

Theme session C
Modelling human behaviour in models of marine ecosystems

Conveners: Jan Jaap Poos, the Netherlands, Olivier Thebaud, Australia, and Rolf Groeneveld, the Netherlands

Agenda and Order of the Day

Tuesday 24 September 2013, 14:00–15:30, 16:00–18:00, Kaldalón

- 1) Opening and introduction 14:00
- 2) Appointment of rapporteur
- 3) Presentation of papers

	CM Code		Time
1)	C:05 Oral	<p>Title: Viability trade-offs in the evaluation of strategies to manage recreational fishing in a marine park</p> <hr/> <p>Authors: Olivier Thébaud, Nick Ellis, L. Richard Little, Luc Doyen, and Ross J. Marriott</p> <hr/> <p>Keywords: management strategy evaluation, multiple objectives, viability analysis, bio-economic modeling, recreational fishing, Ningaloo Marine Park, Western Australia</p>	14:05
2)	C:06 Oral	<p>Title: An investigation of the potential benefits of joint management of the lobster and herring fisheries in New England</p> <hr/> <p>Authors: Sigrid Lehuta, Daniel S. Holland, and Andrew J. Pershing</p> <hr/> <p>Keywords: joint management, bio economic coupled models, natural and human linkages, American lobster, Atlantic Herring, Gulf of Maine</p>	14:20
3)	C:09 Oral	<p>Title: Influence of shellfish farmers rearing strategies on the carrying capacity of an ecosystem through ecological modelling</p> <hr/> <p>Authors: Coralie Picoche, Aline Gangnery <i>et al.</i></p> <hr/> <p>Keywords: mussel culture, carrying capacity, hydro biogeochemical modelling, rearing strategies, DEB theory, ecosystem functioning</p>	14:35
4)	C:08 Oral	<p>Title: Bringing institutional dynamics into integrated modelling approaches</p> <hr/> <p>Authors: A. D. M. Smith</p> <hr/> <p>Keywords: institutional dynamics, integrated models, marine resources</p>	14:50

5)	C:11 Oral	<p>Title: Modelling fishermen behaviour is firstly a question of spatial and temporal scale</p> <hr/> <p>Authors: Stéphanie Mahévas, Sigrid Lehuta, Michel Bertignac and Youen Vermard</p> <hr/> <p>Keywords: fishermen behaviour, métier, fishing effort, spatial, fishing mortality</p>	15:05
Discussion			15:20
Coffee break			15:30
6)	C:01 Oral	<p>Title: Fishing for revenue: how leasing quota can be hazardous to your health</p> <hr/> <p>Authors: Timothy Emery, Klaas Hartmann, Bridget Green, Caleb Gardner, and John Tisdell</p> <hr/> <p>Keywords: ITQ, sea safety, leasing, behaviour, risk, southern rock lobster, fisheries management</p>	16:00
7)	C:10 Oral	<p>Title: Wealth generation and distribution through ITQ rationalization</p> <hr/> <p>Authors: José-María Da-Rocha, Rosa Mato-Amboage, and Pau-Salvador Pujolás-Fons</p> <hr/> <p>Keywords: ITQ, wealth distribution, firm dynamics, inequality</p>	16:15
8)	C:03 Oral	<p>Title: Influence of a discard ban on the transition towards more selective fishing gear.</p> <hr/> <p>Authors: J. Batsleer, J. J. Poos, K. Hamon, H. M. J. Overzee, and A. D. Rijnsdorp</p> <hr/> <p>Keywords: discard ban, gear selectivity , dynamic state variable modelling, economic returns</p>	16:30
9)	C:04 Oral	<p>Title: Explorations of tactical fisher behaviour under the RTI (Real-Time Incentive) tariff-based fisheries management system using simple simulations</p> <hr/> <p>Authors: Sarah B. M. Kraak, Dave G. Reid, and Edward A. Codling</p> <hr/> <p>Keywords: adaptive management, efficiency creep, misreporting, Real-Time Incentives, RTI, spatiotemporal fishing-impact credits, tactical behaviour, targeting</p>	16:45
10)	C:07 Oral	<p>Title: Fisher behavior in Atlantis: towards an assessment of the impacts of fishing access constraints on the Eastern English Channel ecosystem</p> <hr/> <p>Authors: Raphaël Girardin, Youen Vermard, Beth Fulton, Oliver Thebaud, and Paul Marchal</p> <hr/> <p>Keywords: fishers' behavior, Random Utility model, Atlantis, fishing access constraint, spatial management</p>	17:00

11)	C:02 Oral	Title: Rule-based fuzzy cognitive maps: A tool for modeling qualitative information.	17:15
		Authors: Laura Wise, João Paulo Carvalho, and Alberto Guerreiro Murta	
		Keywords: fuzzy knowledge-based model, qualitative modeling, management tools, fishermen behavior	
Poster presentations			
	C:12 Poster	Title: Capturing variability of fishing activities and trajectories to improve fishing vessel behaviour modelling approaches by hidden Markov models	17:30
		Authors: Mathieu Woillez, Pierre Gloaguen, Stéphanie Mahévas, Etienne Rivot, Youen Vermard, and Jérôme Guitton	
		Keywords: métiers, trajectories, fishing vessels, behaviours, hidden Markov models	
	C:13 Poster	Title: Trade-offs and Compromise: using Q method to explore stakeholder preferences in fisheries management	17:32
		Authors: Deirdre E. Duggan, Sarah, B. M. Kraak, Keith, and D. Farnsworth	
		Keywords: q method, stakeholder preferences, trade-offs, compromise	
	C:14 Poster	Title: Strategic decision making in the fisheries governance of Gran Canaria (Spain): A dynamic linking analysis to the social, institutional and environmental systems	17:34
		Authors: Hans Ruperti and José Juan Castro Hernández	
		Keywords: Gran Canaria, small - scale fishery, decision - making, system dynamics, participatory management	
	C:15 Poster	Title: Evaluations of stakeholder objectives as applied through fishery funded research	17:36
		Authors: Erin K. Adams, Kevin D.E. Stokesbury, and Daniel Georgianna	
		Keywords: research set-aside, societal objectives, cooperative research	
	C:16 Poster	Title: How do French fishers decide about what to discard?	17:38
		Authors: Marie-Joëlle Rochet, Kevin Leleu, and Verena Trenkel	
		Keywords: onboard observer programme, statistical modelling, discards	
	C:17 Poster	Title: An autoregressive model to describe fishing boats movement and activity	17:40
		Authors: P. Gloaguen, S. Mahévas, E. Rivot, M. Woillez, M. P. Etienne, J. Guitton, and Y. Vermard	
		Keywords: Hidden Markov Model, Fleet dynamic, RECOPECA project,	

Ornstein Ulhenbeck process, Fishermen's behavior., EM algorithm.

C:18 Poster	Title: Exploring the influence of fisheries management regimes and value chain on price formation at auction market: the case of French scallop fisheries Authors: G. Lesur-Irichabeau, M. Frésard, and O. Guyader Keywords: market behaviour, price, fisheries management, scallop	17:42
C:19 Poster	Title: A choice experiment of fishermen's preferences for future management options within the common fisheries policy Authors: Mike Fitzpatrick, Stephen Hynes, Ole Eigaard, and Christos Maravelias Keywords: CFP Reform, choice experiment, random utility modelling	17:44
C:20 Poster	Title: Social and economic drivers of bycatch avoidance behavior Authors: Catherine E. O'Keefe, Daniel Georgianna, Steven Cadrin, and Kevin Stokesbury Keywords: fishery incentives, social drivers, bycatch	17:46
	Discussion	17:48
	Closing of session	18:00

Theme Session D
Physico-chemical aspects of ocean acidification in the ICES area

Conveners: David J. Hydes, UK, Jon Olafsson, Iceland, and Alberto Vieria Borges, Belgium

Agenda and Order of the Day

Tuesday 24 September 2013, 10:00–11:30, Norðurljós

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|------------------------------|-------|
| 1) Opening and introduction | 10:00 |
| 2) Appointment of rapporteur | |
| 3) Presentation of papers | |

CM Code		Time
D:02 Oral	Title: Sensitivity of sea water pH to oceanographic variables in the North Atlantic near Iceland Authors: Jon Olafsson and Solveig R. Olafsdottir Keywords: Acidification, North Atlantic, time series	10:10
D:03 Oral	Title: Quantification of long-term variations in oceanic pH and uptake of CO ₂ : Comparative assessment in three different regional ecosystems Authors: Rocio Castaño-Primo, Cara Nissen, Ute Daewel, and Corinna Schrum Keywords: Ocean acidification, North Sea, Baltic Sea, Barents Sea, ECOSMO, long-term hindcast	10:25
D:04 Oral	Title: Variability of pCO ₂ and pH in the Baltic Sea and the Kattegat investigated using a FerryBox system Authors: Bengt Karlson <i>et al.</i> Keywords: ocean acidification, carbon dioxide, pH, Baltic Sea, Kattegat, FerryBox	10:40
D:05 Oral	Title: Coastal lagoons as a buffer for ocean acidification Authors: Sergey Aleksandrov Keywords: coastal lagoon, Baltic Sea, pH, primary production, eutrophication	10:55
	Discussion	11:10
	End of session	11:30

Theme Session E
Do foodweb dynamics matter in fisheries management?
(co-sponsored by PICES)

Conveners: Anna Gårdmark, Sweden, Jason Link, USA, Michele Casini, Sweden, and Ian Perry, Canada, PICES

Agenda and Order of the Day

Tuesday 24 September 2013, 14:00–15:30, 16:00–18:00, Silfurberg A

Wednesday 25 September 2013, 10:00–12:30, Silfurberg A

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|----|---------------------------|-------|
| 1) | Opening and introduction | 14:00 |
| 2) | Appointment of rapporteur | |
| 3) | Presentation of papers | |

	CM Code		Time
1)	E:01 Oral	<p>Title: Does whiting play a central role in the food web of the western Baltic Sea?</p> <hr/> <p>Authors: Stine D. Ross, J. Rasmus Nielsen, Henrik Gislason, and Niels G. Andersen</p> <hr/> <p>Keywords: whiting, cod, feeding ecology, growth dynamics, inter-specific interactions, management</p>	14:15
2)	E:11 Oral	<p>Title: The influence of forage fish abundance on the aggregation of Gulf of Maine Atlantic cod (<i>Gadus morhua</i>) and their catchability in the fishery</p> <hr/> <p>Authors: David E. Richardson, Michael C. Palmer, and Brian E. Smith</p> <hr/> <p>Keywords: catch per unit effort, Atlantic cod, hyperaggregation, sand lance</p>	14:30
3)	E:18 Oral	<p>Title: Spatial connectivity and predator spillover synchronize food-web changes in the Baltic Sea: the importance of landscape ecology in fisheries management</p> <hr/> <p>Authors: Michele Casini <i>et al.</i></p> <hr/> <p>Keywords: Baltic Sea, cod distribution, ecosystem regulation, landscape ecology, exploited resources, cross-system management</p>	14:45
4)	E:14 Oral	<p>Title: Modeling the Ecosystem Role of Top predators (Cetaceans and Seals) in the Irish Sea</p> <hr/> <p>Authors: Gema Hernandez-Milian, Emer Rogan, and David Reid</p> <hr/> <p>Keywords: marine mammals, Ecopath with Ecosim, fisheries, feeding ecology</p>	15:00
5)	E:19 Oral	<p>Title: How phytoplankton size influences fisheries management</p> <hr/> <p>Authors: Kimberly Hyde, Michael Fogarty, Elizabeth Selig, Trond Kristiansen, Catherine Longo, Kristin Kleisner, Mark Dickey-Collas, Elizabeth Fulton, and</p>	15:15

		Coilin Minto	
		Keywords: primary production, transfer efficiencies, fisheries production potential, phytoplankton size classes, ocean color remote sensing	
		Coffee break	15:30
6)	E:05 Oral	Title: Alternative stable states and shifts in competitive dominance in size-structured fish communities Authors: Magnus Huss, André de Roos, Anieke Van Leeuwen, Michele Casini, and Anna Gårdmark Keywords: alternative stable states, competition, herring, mortality, size-structure, sprat	16:00
7)	E:15 Oral	Title: Effects of trophic relationships on small pelagic populations in the Bay of Biscay Authors: E. Andonegi, M. Chifflet, and I. Quincoces Keywords: intraguild, sardine, anchovy, model, ecosystem, management	16:15
8)	E:04 Oral	Title: Biomass accumulation across Trophic levels: analysis of time series of landings in different areas of the Mediterranean Sea Authors: Fabio Pranovi, Simone Libralato, Matteo Zucchetta, and Jason Link Keywords: biomass, trophic level, trophodynamics, natural and fishing drivers, ecosystem indicator, Mediterranean Sea	16:30
9)	E:09 Oral	Title: Impact of a foodweb mediated apparent pelagic outburst on an ecological indicator used for management Authors: Daniel E. Duplisea, Jake Rice, Alida Bundy, and Marc Clemens Keywords: pelagic outburst, ecosystem indicators, sampling artefacts, survey, fishing in balance	16:45
10)	E:17 Oral	Title: Performance of foodweb indicator-based control rules for Ecosystem-Based Fisheries Management Authors: Gavin Fay, Jason S. Link, Scott I. Large, Robert J. Gamble, Rebecca Gorton, and Elizabeth A. Fulton Keywords: management strategy evaluation, fisheries management, Northwest Atlantic Ocean, Atlantis, ecosystem modeling	17:00
11)	E:06 Oral	Title: A meta-analysis of ecosystems' trophic functioning: identification of typical trophic behavior and associated responses to fishing impact Authors: Mathieu Colléter, Didier Gascuel, and Daniel Pauly Keywords: Ecosystem modelling, Ecopath, EcoTroph, EcoBase, trophic functioning, fishing impact	17:15

12)	E:03 Oral	Title: Does fisheries selectivity affect food web dynamics in a way that needs to be managed?	17:30
		Authors: Marie-Joëlle Rochet <i>et al.</i>	
		Keywords: comparative study, ecosystem effects of fishing, selective fisheries	
Presentation of Summary of Posters and Wrap up			17:45

Wednesday 25 September 2013, 10:00–12:30, Silfurberg A

13)	E:02 Oral	Title: When does fishing lead to more fish? Community consequences of bottom trawl fisheries in demersal food webs.	10:00
		Authors: P. Daniel van Denderen, Tobias van Kooten, and Adriaan D. Rijnsdorp	
		Keywords: bottom trawl fishery; bottom-up control; ecosystem-based fishery management; marine soft-bottom community; maximum sustainable yield; top-down control;	
14)	E:10 Oral	Title: Recent changes in trophic web structure on the Patagonian Shelf affected the management of multispecies finfish fishery	10:15
		Authors: A. Arkhipkin and V. Laptikhovsky	
		Keywords: Southwest Atlantic, Falkland Islands, <i>Patagonotothen ramsayi</i> , wasp-waist ecosystem, feeding	
15)	E:12 Oral	Title: Scenarios analysis of the impacts of climate and fisheries on the Adriatic Sea food web	10:30
		Authors: S. Libralato and C. Solidoro	
		Keywords: scenario analysis, climate change, fisheries, food web effects, indicators, Adriatic Sea	
16)	E:08 Oral	Title: Seasonal shift of pelagic ecosystem structure around the Ulleung Basin of the East/Japan Sea	10:45
		Authors: Taeki An, Hyun Je Park, Jung Hyun Kwak, Chung Il Lee, Suam Kim, and Chang-Keun Kang	
		Keywords: food web, seasonal shift, pelagic ecosystem, environmental change, East/Japan Sea	
17)	E:13 Oral	Title: Patterns influencing the dynamics of species within and between functional guilds in Northeast Pacific marine ecosystems and the role of environmental gradients and climate in shaping interactions	11:00
		Authors: Matthew Baker, Anne Hollowed, Trevor Branch, Ray Hilborn, and M. Elizabeth Clarke	
		Keywords: community ecology, functional guilds, species interactions, variance ratio tests, random forests, dynamic factor analysis	

18)	E:20 Oral	Title: Quantifying the effects of alternative food webs and climate on fisheries harvest using an individual-based multi-species model of the California Current	11:15
		Authors: Kenneth A. Rose <i>et al.</i>	
		Keywords: sardine, anchovy, fisheries, food web, climate, end-to-end, individual-based	
19)	E:16 Oral	Title: An approach to incorporating and estimating competition and predation interactions in a production model	11:30
		Authors: Robert J. Gamble, Michael Fogarty, Brian E. Smith, and Jason S. Link	
		Keywords: Ecosystem based fishery management, ecosystem models, surplus production models, interaction strengths, competition, predation, estimation, genetic algorithm	
20)	E:07 Oral	Title: Multispecies considerations in stock assessments: “yes we can”	11:45
		Authors: Daniel Howell and Sam Subbey	
		Keywords: assessment, management, single-species, multi-species	
		Final discussion: Future marine management – accounting for marine food-web dynamics?	12:00

Poster presentations

	E:21 Poster	Title: Contrasting food web structures and trends across Mediterranean Areas	
		Authors: Anik Brind'Amour <i>et al.</i>	
		Keywords: morphological traits, community models, food web structure, functional groups, Mediterranean Sea, temporal trends	
	E:22 Poster	Title: Temporal dynamics of the major predator interaction in the Barents Sea	
		Authors: Joël M. Durant, Mette Skern-Mauritzen, Yuri V. Krasnov, Natalia G. Nikolaeva, and Ulf Lindstrøm	
		Keywords: Barents Sea, Northeast Arctic cod <i>Gadus morhua</i> , Black-legged Kittiwake <i>Rissa tridactyla</i> , Common guillemot <i>Uria aalge</i> , Minke whale <i>Balaenoptera acutorostrata</i> , Harp seal <i>Pagophilus groenlandicus</i> , Fishermen.	
	E:23 Poster	Title: Spatial assessment of predator–prey relationships in the North Sea: the influence of abiotic habitat properties on the spatial overlap between 0-group cod and grey gurnard	
		Authors: A. Kempf, V. Stelzenmüller, A. Akimova, and J. Floeter	
		Keywords: species distribution model, cod, grey gurnard, regression kriging, spatial overlap, multi species assessment	
	E:24 Poster	Title: In search of operational trophic species to develop foodweb indicators in Portuguese waters.	
		Authors: Hugo Mendes, Maria Manuel Angélico, and Maria de Fátima Borges	

	Keywords: trophic groups, foodweb
E:25 Poster	Title: Are small pelagic fish driving the distribution of whales and dolphins in the Irish Celtic Sea? Authors: Mareike Volkenandt, C��il��n Minto, Ian O' Connor, Simon Berrow, and Ciaran O'Donnell Keywords: Celtic Sea, Herring, cetaceans, distribution, trophic links
E:26 Poster	Title: Exploring uncertainty in ecosystem models: validation of Ecospace with survey data. Authors: Giovanni Romagnoni, Steve Mackinson, and Anne Maria Eikeset Keywords: Spatial management, uncertainty, Ecosystem approach, food web, North Sea.
E:27 Poster	Title: Increase in sticklebacks in the Baltic Sea – effects on predatory fish and coastal ecosystems Authors: Jens Olsson, Ulf Bergstr��m, Michele Casini, Britas-Klemens Eriksson, Ronny Fredriksson, H��kan Wennhage, and Magnus Appelberg Keywords: Cross-ecosystem management, Intra-guild predation, Resource competition, Recruitment, Offshore ecosystem
E:28 Poster	Title: Size-based resource partitioning or maximization of energy intake? A Mediterranean case study on the anchovy-sardine species pair Authors: Nikolaos Nikolioudakis, Stamatina Isari, and Stylianos Somarakis Keywords: forage fish, anchovy, sardine, Mediterranean
E:29 Poster	Title: Gadoid predation on a small local shrimp population Authors: Ingibj��rg G. J��nsd��ttir Keywords: northern shrimp, cod, haddock, consumption, fishery regulation
E:32 Poster	Title: Ocean acidification and the possible loss of benthic invertebrates: would commercial fin-fish be affected? Authors: John K. Pinnegar, Bryony L. Townhill, Silvana N. R Birchenough, Steven Mackinson, and William J. F. Le Quesne Keywords: Food-web, pH, calcification, fisheries, ocean acidification.
E:33 Poster	Title: How much multispecies is enough? An example from Barents Sea cod and capelin Authors: Daniel Howell and Anatoly Filin Keywords: assessment, appropriate complexity, ecosystem based fisheries
E:34 Poster	Title: Food web dynamics of the Gulf of Riga: the role of herring Authors: Ivars Putnis, B��rbelM��ller-Karulis, and Georgs Kornilovs Keywords: Gulf of Riga herring, food-web dynamics, Ecopath model

E:35 Poster	Title: Food-web interactions in fish populations on the northwest Atlantic coastal shelf
	Authors: Jeremy Collie and Minh Kang
	Keywords: northwest Atlantic; fish community, trophic interactions, multispecies biomass dynamics model, harvest trade-offs

E:36 Poster	Title: The PLAN FISH project
	Authors: Malin Werner
	Keywords: fisheries, food web models, planktivore thinning experiment, ecological risk analysis

E:37 Poster	Title: Model derived food web indicators in the framework of MSFD and UNEP-MAP: comparing two Mediterranean case-studies
	Authors: D. Brigolin, F. Pranovi, and R. Pastres
	Keywords: Mediterranean sea, descriptor 4, food web models, MSFD, ICZM protocol

E:38 Poster	Title: Building on the relative importance of marine forage species to fisheries and predators globally: examining trophic similarities and dissimilarities in marine ecosystems.
	Authors: Konstantine J. Rountos, Michael G. Frisk, and Ellen K. Pikitch
	Keywords: Forage species, Marine predators, Fisheries, Food-webs, EBFM

E:39 Poster	Title: Structure and functioning of the Baltic Sea food webs: Do Pelagic Food Webs Rely on Energy Flow from the Benthic Zone?
	Authors: M. Kiljunen <i>et al.</i>
	Keywords: benthic-pelagic coupling, feeding niche, energy flow, stable isotopes, trophic position

E:40 Poster	Title: Decadal-scale variability in the stable isotopic signatures of haddock on Georges Bank
	Authors: Joel Llopiz, Jonathan Hare, and Simon Thorrold
	Keywords: climate change, ecosystem change, stable isotope analysis, haddock, Georges Bank, trophic level

Theme Session F

Complexity and structure of planktonic foodwebs: who really eats whom?

Conveners: Elaine Fileman, UK, Ann Bucklin, USA, Pennie Lindeque, UK, and Janna Peters, Germany

Agenda and Order of the Day

Tuesday 24 September 2013, 10:00–13:00, Kaldalón

- 1) Opening and introduction 10:00
- 2) Appointment of rapporteur
- 3) Presentation of papers

	CM Code		Time
1)	F:04 Oral	<p>Title: What's on the menu? Determining feeding rates and selectivity of meroplankton in the Western English Channel with traditional and molecular techniques.</p> <hr/> <p>Authors: Pennie Lindeque, Elaine Fileman, Rachel Harmer, Katharine Pemberton, and Helen Parry</p> <hr/> <p>Keywords: meroplankton, Western English Channel, feeding, PCR</p>	10.05
2)	F:07 Oral	<p>Title: Copepod feeding performance as a function of prey nutritional quality</p> <hr/> <p>Authors: Stamatina Isari, Meritxell Antó, and Enric Saiz</p> <hr/> <p>Keywords: copepod feeding, selectivity patterns, food quality</p>	10.20
3)	F:12 Oral	<p>Title: Feeding and diversity of copepod nauplii communities along the Atlantic Meridional Transect</p> <hr/> <p>Authors: Elaine Fileman, Rachel Harmer, Katharine Pemberton, and Pennie Lindeque</p> <hr/> <p>Keywords: copepod nauplii, diversity, grazing, DNA barcoding</p>	10.35
4)	F:02 Oral	<p>Title: Beneficial influence of microalgae and protists on early stages of herring (<i>Clupea harengus</i>) larvae.</p> <hr/> <p>Authors: Björn Illing, Marta Moyano, and Myron A. Peck</p> <hr/> <p>Keywords: herring larvae, microalgae, protists, trophic upgrading, Baltic Sea</p>	10.50
5)	F:01 Oral	<p>Title: Importance of fish predation on composition and structure of copepods communities in the Franz Josef Land area (north-eastern Barents Sea)</p> <hr/> <p>Authors: Emma L. Orlova, Andrey V. Dolgov, Valentina N. Nesterova, Irina P. Prokopchuk, and Aleksandr N. Benzik</p> <hr/> <p>Keywords: copepods, Calanus, Barents Sea, community, structure, predation, pelagic fish</p>	11.05

6)	F:09 Oral	Title: Trophic relationships and the role of <i>Calanus</i> in the oceanic ecosystems south and north of Iceland	11.20
		Authors: Hildur Petursdottir	
		Keywords: Trophic interaction, zooplankton, <i>Calanus</i> , fatty acid, stable isotopes	
7)	F:10 Oral	Title: What do mesopelagic fishes really eat? Quantitative PCR detection of gelatinous prey in gut contents	11.35
		Authors: M. J. Hauff, B.D. Ortman, and A. Bucklin	
		Keywords: gelatinous zooplankton, 28S rDNA, Mid-Atlantic Ridge, RT-PCR, mesopelagic fishes	
8)	F:08 Oral	Title: Field and modeling study of plankton community response to nutrient enrichment	11.50
		Authors: T. M. Tsagaraki, P. Pitta, G. Petihakis, K. Tsiaras, C. Frangoulis, and I. Karakasis	
		Keywords: food webs, nutrient enrichment, plankton, Eastern Mediterranean	
9)	F:06 Oral	Title: Isoscapes of stable nitrogen isotope spectra of plankton provide insights on the trophic structure of the deep ocean	12.05
		Authors: Antonio Bode, Carmen Mompeán, Marta Estrada, and Manuel Varela	
		Keywords: stable isotopes, delta-15N, plankton, ocean, food web, biomass	
10)	F:03 Oral	Title: Temporal trends in pelagic communities and forage fish removals: Connections between zooplankton, Atlantic herring (<i>Clupea harengus</i>), and herring consumption across the northeast US continental shelf	12.20
		Authors: Brian E. Smith and Stacy Rowe	
		Keywords: Plankton, foodweb, fish trophic ecology, consumption modeling, time series, northwest Atlantic Ocean	
11)	F:15 Poster	Title: Nano- and micro-zooplankton grazing on heterotrophic bacteria in the Southeastern Black Sea	12.40
		Authors: Ulgen Kopuz	
		Keywords: Heterotrophic bacteria, Micro-zooplankton, Grazing, Food web, Black Sea	
12)	F:13 Poster	Title: Plankton community seasonal interactions in the open Gulf of Riga and impacts on ecosystem	12.42
		Authors: Gunta Rubene, Iveta Jurgensone, Ivars Putnis, and Atis Labucis	
		Keywords: bottom – up and top – down control, brackish water ecosystem, zooplankton, phytoplankton, herring.	
13)	F:11 Poster	Title: Changes in size composition of the Barents Sea euphausiids under climatic changes and fish predation pressure	12.44
		Authors: Emma L. Orlova, Andrey V. Dolgov, Anna S. Orlova, and Valentina	

N.Nesterova

Keywords: euphausiids, Barents Sea, size composition, predation

14)	F:14 Poster	Title: Vertical distribution in relation with food availability and morphology of the larval stages of <i>Polycheles typhlops</i> (Decapoda, Polychelida) from plankton samples.	12.46
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Authors: Asvin P. Torres, Guillermo Guerao, Pere Abelló, Edurne Blanco, Alexandra Boné, Ferran Palero, Antonina Dos Santos, and Manuel Hidalgo.

Keywords: larval vertical distribution patterns, *Polycheles typhlops*, genetic identification, larval stages, larval morphology, Decapoda, western Mediterranean.

Discussion

12:48

End of session

13:00

Theme Session F

Complexity and structure of planktonic foodwebs: who really eats whom?

Conveners: Elaine Fileman, UK, Ann Bucklin, USA, Pennie Lindeque, UK, and Janna Peters, Germany

Agenda and Order of the Day

Tuesday 24 September 2013, 10:00–13:00, Kaldalón

- 1) Opening and introduction 10:00
- 2) Appointment of rapporteur
- 3) Presentation of papers

	CM Code		Time
1)	F:04 Oral	<p>Title: What's on the menu? Determining feeding rates and selectivity of meroplankton in the Western English Channel with traditional and molecular techniques.</p> <hr/> <p>Authors: Pennie Lindeque, Elaine Fileman, Rachel Harmer, Katharine Pemberton, and Helen Parry</p> <hr/> <p>Keywords: meroplankton, Western English Channel, feeding, PCR</p>	10.05
2)	F:07 Oral	<p>Title: Copepod feeding performance as a function of prey nutritional quality</p> <hr/> <p>Authors: Stamatina Isari, Meritxell Antó, and Enric Saiz</p> <hr/> <p>Keywords: copepod feeding, selectivity patterns, food quality</p>	10.20
3)	F:12 Oral	<p>Title: Feeding and diversity of copepod nauplii communities along the Atlantic Meridional Transect</p> <hr/> <p>Authors: Elaine Fileman, Rachel Harmer, Katharine Pemberton, and Pennie Lindeque</p> <hr/> <p>Keywords: copepod nauplii, diversity, grazing, DNA barcoding</p>	10.35
4)	F:02 Oral	<p>Title: Beneficial influence of microalgae and protists on early stages of herring (<i>Clupea harengus</i>) larvae.</p> <hr/> <p>Authors: Björn Illing, Marta Moyano, and Myron A. Peck</p> <hr/> <p>Keywords: herring larvae, microalgae, protists, trophic upgrading, Baltic Sea</p>	10.50
5)	F:01 Oral	<p>Title: Importance of fish predation on composition and structure of copepods communities in the Franz Josef Land area (north-eastern Barents Sea)</p> <hr/> <p>Authors: Emma L. Orlova, Andrey V. Dolgov, Valentina N. Nesterova, Irina P. Prokopchuk, and Aleksandr N. Benzik</p> <hr/> <p>Keywords: copepods, Calanus, Barents Sea, community, structure, predation, pelagic fish</p>	11.05

6)	F:09 Oral	Title: Trophic relationships and the role of <i>Calanus</i> in the oceanic ecosystems south and north of Iceland	11.20
		Authors: Hildur Petursdottir	
		Keywords: Trophic interaction, zooplankton, <i>Calanus</i> , fatty acid, stable isotopes	
7)	F:10 Oral	Title: What do mesopelagic fishes really eat? Quantitative PCR detection of gelatinous prey in gut contents	11.35
		Authors: M. J. Hauff, B.D. Ortman, and A. Bucklin	
		Keywords: gelatinous zooplankton, 28S rDNA, Mid-Atlantic Ridge, RT-PCR, mesopelagic fishes	
8)	F:08 Oral	Title: Field and modeling study of plankton community response to nutrient enrichment	11.50
		Authors: T. M. Tsagaraki, P. Pitta, G. Petihakis, K. Tsiaras, C. Frangoulis, and I. Karakasis	
		Keywords: food webs, nutrient enrichment, plankton, Eastern Mediterranean	
9)	F:06 Oral	Title: Isoscapes of stable nitrogen isotope spectra of plankton provide insights on the trophic structure of the deep ocean	12.05
		Authors: Antonio Bode, Carmen Mompeán, Marta Estrada, and Manuel Varela	
		Keywords: stable isotopes, delta-15N, plankton, ocean, food web, biomass	
10)	F:03 Oral	Title: Temporal trends in pelagic communities and forage fish removals: Connections between zooplankton, Atlantic herring (<i>Clupea harengus</i>), and herring consumption across the northeast US continental shelf	12.20
		Authors: Brian E. Smith and Stacy Rowe	
		Keywords: Plankton, foodweb, fish trophic ecology, consumption modeling, time series, northwest Atlantic Ocean	
11)	F:15 Poster	Title: Nano- and micro-zooplankton grazing on heterotrophic bacteria in the Southeastern Black Sea	12.40
		Authors: Ulgen Kopuz	
		Keywords: Heterotrophic bacteria, Micro-zooplankton, Grazing, Food web, Black Sea	
12)	F:13 Poster	Title: Plankton community seasonal interactions in the open Gulf of Riga and impacts on ecosystem	12.42
		Authors: Gunta Rubene, Iveta Jurgensone, Ivars Putnis, and Atis Labucis	
		Keywords: bottom – up and top – down control, brackish water ecosystem, zooplankton, phytoplankton, herring.	
13)	F:11 Poster	Title: Changes in size composition of the Barents Sea euphausiids under climatic changes and fish predation pressure	12.44
		Authors: Emma L. Orlova, Andrey V. Dolgov, Anna S. Orlova, and Valentina	

N.Nesterova

Keywords: euphausiids, Barents Sea, size composition, predation

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| 14) | F:14
Poster | Title: Vertical distribution in relation with food availability and morphology of the larval stages of <i>Polycheles typhlops</i> (Decapoda, Polychelida) from plankton samples. | 12.46 |
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Authors: Asvin P. Torres, Guillermo Guerao, Pere Abelló, Edurne Blanco, Alexandra Boné, Ferran Palero, Antonina Dos Santos, and Manuel Hidalgo.

Keywords: larval vertical distribution patterns, *Polycheles typhlops*, genetic identification, larval stages, larval morphology, Decapoda, western Mediterranean.

Discussion	12:48
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End of session	13:00
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Theme Session G
Observation and monitoring needs to
support ecosystem-based management –
preparing to serve the current of data coming upon us

Conveners: Ingeborg de Boois, the Netherlands, Helge Sagen, Norway, and Yvonne Walther, Sweden

Agenda and Order of the Day

Monday 23 September 2013, 15:30–18:30, Silfurberg A

Tuesday 24 September 2013, 10:00–13:00, Silfurberg A

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| 1) | Opening and introduction | 15:30 |
| 2) | Appointment of rapporteur | |
| 3) | Presentation of papers | |

Monday 23 September 2013, 15:30–18:30, Silfurberg A (11 presentations)

Data integration:

			Time
	ICES CM 2013 Code		
1)	G:01 Oral	<p>Title: Good Environmental Status and the plankton: combining disparate datasets to assess pelagic habitats at national and regional scales</p> <hr/> <p>Authors: Abigail McQuatters-Gollop, Cordula Scherer, Paul Tett, and Richard Gowen</p> <hr/> <p>Keywords: plankton, lifeforms, MSFD, policy</p>	15:45
2)	G:03 Oral	<p>Title: Ecosystem management: accessing data through integrative approaches</p> <hr/> <p>Authors: A. Begossi, S. V. Salivonchyk, P. F. Lopes, and R. A. M. Silvano</p> <hr/> <p>Keywords: grouper, optimal foraging, small scale fisheries, snook</p>	16:00
3)	G:09 Oral	<p>Title: A framework for data flow from observations to advice – the development of a new, efficient data infrastructure at IMR</p> <hr/> <p>Authors: Nils Olav Handegard <i>et al.</i></p> <hr/> <p>Keywords: data, data centre, infrastructure, surveys</p>	16:15
4)	G:17 Oral	<p>Title: Harmonising data from heterogeneous sources to characterise small pelagic fish habitat in the Mediterranean Sea</p> <hr/> <p>Authors: M. Giannoulaki <i>et al.</i></p> <hr/> <p>Keywords: small pelagic fish habitat, Mediterranean Sea</p>	16:30

5)	G:18 Oral	Title: Data integration fosters predictive modelling of marine fish habitat use across the Northwest Atlantic regional sea.	16:45
		Authors: Jonathan A. D. Fisher, Kenneth T. Frank, Nancy L. Shackell, Vladimir E. Kostylev, and Charles G. Hannah.	
		Keywords: community structure, data integration, disturbance, ecosystem assessment, evenness, life history, marine fishes, scope for growth, spatial analyses, species richness, vulnerable regions.	
6)	G:11 Oral	Title: Using available data to assess fishing impact and good environmental status in European seas: a diagnosis from stock-based and ecosystem indicator	17:00
		Authors: Didier Gascuel	
		Keywords: ecosystem indicators, ecosystem health, fishing impact, good environmental status, fisheries, MSFD, stock assessment, stock based indicators	
7)	G:19 Oral	Title: Integration of multimodal data sources in designing decision support tools for marine resource management.	17:15
		Authors: Timothy Sullivan <i>et al.</i>	
		Keywords: multimodal data, marine resource management, decision support, visual sensing Contact Author:	
<i>New data sources/integrated monitoring</i>			
8)	G:04 Oral	Title: Ecosystem-based approach to chemicals management in marine ecosystems: Case of the Baltic Sea chemicals management	17:30
		Authors: Oksana Udovyk	
		Keywords: EAM, uncertainty, chemicals, the Baltic Sea	
9)	G:13 Oral	Title: Using acoustic data from pelagic fishing vessels to monitor pelagic fish stocks and their ecosystem	17:45
		Authors: Sascha Fässler, Thomas Brunel, Sven Gastauer, and Dirk Burggraaf	
		Keywords: fisheries acoustics, pelagic fisheries, abundance indices, echosounder calibration, data collection	
10)	G:12 Oral	Title: Multiple stressors impacting the future marine ecosystems: implications for management and monitoring	18:00
		Authors: Helén C. Andersson <i>et al.</i>	
		Keywords: climate change, modelling, multiple stressors, monitoring, EBM, ecosystem services	
11)	G:14 Oral	Title: ITSASTEKA a scientific survey aimed on EMSD descriptors in the Basque Continental Shelf (Bay of Biscay-NE Atlantic)	18:15
		Authors: Iñaki Quincoces, Marina Santurtún <i>et al.</i>	
		Keywords: Survey, European Marine Strategy Directive, Continental shelf, Basque Country, Spain, Bay of Biscay, multiple descriptors	

Tuesday 24 September 2013, 10:00–13:00, Silfurberg A (9 oral presentations, 8 elevator pitches (1 min.) for posters, 30 minutes discussion)

User guidance

12)	G:06 Oral	<p>Title: Olrac-RTI: A new and operational approach to holistic management of fisheries for multiple commercial species and ecosystem objectives. Part 1</p> <hr/> <p>Authors: Sarah B. M. Kraak, Dave G. Reid, Amos Barkai, Guy Meredith, and Fatima Felaar</p> <hr/> <p>Keywords: Ecosystem Approach to Fisheries Management (EAFM), electronic data logging software, fishing-impact credits, mixed-fisheries management, Real-Time Incentives, RTI, spatiotemporal flexibility, tariffs</p>	10:00
13)	G:07 Oral	<p>Title: Olrac-RTI: A new and operational approach to holistic management of fisheries for multiple commercial species and ecosystem objectives. Part 2</p> <hr/> <p>Authors: Sarah B. M. Kraak, Dave G. Reid, Amos Barkai, Guy Meredith, and Fatima Felaar</p> <hr/> <p>Keywords: Keywords: dynamic data manager, Ecosystem Approach to Fisheries Management (EAFM), electronic data logging software, fishing-impact credits, mixed-fisheries management, Real-Time Incentives, RTI, spatiotemporal flexibility, tariffs</p>	10:16
14)	G:15 Oral	<p>Title: Development of user-friendly environmental data products: a pilot case for Latvian marine areas</p> <hr/> <p>Authors: Anda Ikauniece <i>et al.</i></p> <hr/> <p>Keywords: data products, presentation, indicators, marine use, management</p>	10:32
15)	G:16 Oral	<p>Title: Datasets for investigation of climate variability and climate change in support of ecosystem-based assessments</p> <hr/> <p>Authors: Sarah L. Hughes and Barbara Berx</p> <hr/> <p>Keywords: NW European Shelf, temperature, salinity, climate change, ecosystem assessment</p>	10:47
16)	G:08 Oral	<p>Title: ICES Data Portal, marine knowledge needed for delivering ecosystem-based management</p> <hr/> <p>Authors: Carlos Pinto and Neil Holdsworth</p> <hr/> <p>Keywords: Integrated management, ecosystem data, geographical information system, map spatial planning, fisheries, environment, oceanography, stomach data, Rich Web Experience, mapping data</p>	11:02
17)	G:20 Oral	<p>Title: The ICES Data Type Guidelines and their place and role in the profusion of guidelines, manuals, standards, cookbooks and best practice</p> <hr/> <p>Authors: Lesley Rickards, Taco de Bruin, Neil Holdsworth, Hjalte Parner, Sjur Ringheim, and Garry Dawson</p> <hr/> <p>Keywords: None</p>	11:17

Data management framework/Effective MSFD assessment

18)	G:05 Oral	Title: Integrating scientific efforts among regional areas of the Atlantic and the Mediterranean towards EBM: the WGCOMEDA initiative	11:32
		Authors: Marta Coll and Jose Manuel Hidalgo	
		Keywords: comparative approach, ecosystem-based approach, fisheries, fishing impact, climate, Mediterranean Sea, Atlantic Ocean	
19)	G:10 Oral	Title: Development of ITSASGIS-5D: seeking interoperability between Marine GIS layers and scientific multidimensional data using open source tools and OGC services for multidisciplinary research	11:47
		Authors: Yolanda Sagarminaga, Ibon Galparsoro, Iratxe Orbe, and Jose Antonio Sánchez	
		Keywords: Marine Data management, interoperability, OGC Services, WMS, Ecosystem approach, GIS, open source Marine Data Management, interoperability, OGC Services, GIS, Ecosystem approach	
20)	G:02 Oral	Title: Sufficiently wide assessment units to make MSFD monitoring effective: seabirds in the Baltic Sea as an example	12:02
		Authors: Antti Lappalainen and Jukka Rintala	
		Keywords: seabird, monitoring, Baltic Sea, assessment unit	

Poster presentations

G:21 Poster	Title: Ecosystem monitoring of marine areas in Russia (by the example of the Baltic Sea, the Curonian and Vistula Lagoons)	12:27
		Authors: Sergey Aleksandrov
		Keywords: ecological monitoring, eutrophication, oil production, the Baltic Sea, water quality
G:22 Poster	Title: Support of ICES Data and Information Needs: Development of an Effective Data Management Framework	12:28
		Authors: P. H. Wiebe, R. C. Groman, D. M. Allison, C. L. Chandler, and D. M. Glover
		Keywords: data management, Information infrastructure, metadata, data publication
G:23 Poster	Title: Big brother is sampling ... rare seabird and mammal bycatch in Baltic Sea passive fisheries – automated data acquisition to inform MSFD indicators	12:29
		Authors: Daniel Oesterwind and Christopher Zimmermann
		Keywords: Ecosystem Approach, Baltic Sea, Remote Electronic Monitoring, rare seabird and harbor porpoise bycatch, observers
G:24 Poster	Title: Improved understanding of marine biodiversity: modelling, improved indicators, and integrated assessment (DEVOTES project 2012-2016)	12:30

	Authors: Ángel Borja <i>et al.</i>	
	Keywords: Marine Strategy Framework Directive, biodiversity, food webs, sea-floor integrity, modelling, monitoring, indicators	
G:25 Poster	Title: A monitoring survey for integrated ecosystem assessment regarding shellfish culture	12:31
	Authors: Coralie Picoche and Aline Gangnery <i>et al.</i>	
	Keywords: monitoring; physics; hydrobiology; shellfish culture; integrated ecosystem assessment	
G:26 Poster	Title: The monitoring need to assure seafood safety in a large fish stock – The North East Atlantic Cod (<i>Gadus morhua</i>)	12:32
	Authors: Kaare Julshamn, Bente Nilsen, Arne Duinker, Sylvia Frantzen, Stig Valdersnes, Kjell Nedreaas, and Amund Maage	
	Keywords: Seafood safety, Atlantic cod, mercury, dioxins	
G:28 Poster	Title: Comparison of observed and remotely sensed chlorophyll in Icelandic waters	12:33
	Authors: Kristín Ágústsdóttir and Kristinn Guðmundsson	
	Keywords: Remote sensing, ocean colour, surface chlorophyll, regional calibration	
	Discussion	12:34
	Closing of session	13:00

Theme Session H

The future of sustainable harvesting strategies

Conveners: Ralf Doering, Germany, Carmen Fernández, Spain, Einar Hjørleifsson, Iceland,
and Anna Rindorf, Denmark

Agenda and Order of the Day

Thursday 26 September 2013, 12:00–13:00, 14:00–15:30, 16:00–18:00, Silfurberg B

Friday 27 September 2013, 09:00–10:30, 11:00–13:00, 14:00–16:00, Silfurberg B

- 1) Opening and introduction 12:00
- 2) Appointment of rapporteur
- 3) Presentation of papers

	CM Code		Time
1)	H:20 Oral	<p>Title: The effects of multispecies and environmental factors on MSY reference points for Baltic sprat.</p> <hr/> <p>Authors: Jan Horbowy and Anna Luzencyk</p> <hr/> <p>Keywords: MSY, Baltic Sea, sprat, predation, density dependence, environmental factors</p>	12:15
2)	H:01 Oral	<p>Title: Sustainable fisheries: broadening criteria for assessment</p> <hr/> <p>Authors: Sara Hornborg, Per Nilsson, Daniel Valentinsson, and Friederike Ziegler</p> <hr/> <p>Keywords: fisheries management, LCA, fuel, sustainability</p>	12:30
3)	H:16 Oral	<p>Title: Size-based estimation of the status of fish stocks: simulation analysis and comparison with age-based estimations</p> <hr/> <p>Authors: Alexandros Kokkalis, Uffe Høgsbro Thygesen, Anders Nielsen, and Ken Haste Andersen</p> <hr/> <p>Keywords: size-structure, single-species, data limited, Fmsy</p>	12:45
Lunch break			13:00
4)	H:25 Oral	<p>Title: A new stock assessment model for the Icelandic cod stock based on cohort growth analysis and spawning stock biomass</p> <hr/> <p>Authors: Agnar Steinarsson</p> <hr/> <p>Keywords: stock assessment, cohort growth rates, sustainable yield, stock recruitment.</p>	14:00
5)	H:29 Oral	<p>Title: Evaluation of Harvest Control Rule for golden redfish.</p> <hr/> <p>Authors: Kristján Kristinsson and Höskuldur Björnsson</p>	14:15

		Keywords: Keywords: harvest control rules, stochastic simulations, autocorrelation, stock-recruitment functions, assessment error, Gadget, redfish, length based models	
6)	H:08 Oral	Title: Signal Detection Theory to inform fishing opportunities with Harvest Control Rules	14:30
		Authors: Deirdre E. Duggan, Keith, D. Farnsworth, and Sarah S.B.M. Kraak	
		Keywords: Signal Detection Theory, Indicators, Management Response, Sensitivity, Specificity	
7)	H:10 Oral	Title: The consequences of balanced harvesting on fish communities	14:45
		Authors: Nis Sand Jacobsen, Henrik Gislason, and Ken Haste Andersen	
		Keywords: Balanced harvesting, size spectrum, selective fisheries, ecosystem based fisheries management, maximum sustainable yield	
8)	H:11 Oral	Title: Identifying pelagic ecosystem indicators for management	15:00
		Authors: Verena Trenkel <i>et al.</i>	
		Keywords: Pelagic indicators, stakeholder involvement, indicator development	
		Discussion	15:15
		Coffee break	15:30
9)	H:14 Oral	Title: Achieving greater robustness to uncertainties by means of simple management measures.	16:00
		Authors: Loïc Gasche, Stéphanie Mahévas, and Paul Marchal	
		Keywords: Uncertainty, Regression trees, Sensitivity analyses, HCR, MSY, ISIS-Fish.	
10)	H:13 Oral	Title: Introduction of a CPUE-based harvest control rule in the brown shrimp fishery. Applicability and sensitivity testing.	16:15
		Authors: Katharina Schulte, Axel Temming, and Marc Hufnagl	
		Keywords: brown shrimps, harvest control rule	
11)	H:23 Oral	Title: Incentivising selective fishing under catch quotas: using an FCube modelling approach to evaluate management options for North Sea mixed fisheries	16:30
		Authors: H. Condie, P. Dolder, T. L. Catchpole, C. Ulrich, and A. Grant	
		Keywords: Catch Quotas, Common Fisheries Policy, Discard Ban, Fcube, Selective fishing, Mixed fisheries, North Sea	
12)	H:28 Oral	Title: Harvest control rule evaluation in a multi—species context: A case study on Cod (<i>gadus morhua</i>) and Minke whales (<i>Balaenoptera acutorostrata</i>) interaction in Va.	16:45
		Authors: Bjarki Þór Elvarsson, Gísli Víkingsson, and Gunnar Stefánsson	
		Keywords: Harvest control rules, stock assessment, data limited stocks,	

		bootstrap, Gadget, multi--species.	
13)	H:30 Oral	Title: Evaluating sustainability of Harvest Control Rules for data limited stocks: a case study of North Sea Horse mackerel	17:00
		Authors: Aukje Coers, David Miller, Beatriz Roel, and Verena Ohms	
		Keywords: data limited stocks; long term management plan; stakeholder science collaboration; North Sea horse mackerel	
		Poster presentations, 5 minutes per poster: H:34, H:36, H:37	17:15
		Discussion	17:30

Friday 27 September 2013, 09:00–10:30, 11:00–13:00, 14:00–16:00, Silfurberg B

14)	H:24 Oral	Title: Modelling stochasticity in Harvest Control Rule evaluations	09:00
		Authors: Höskuldur Björnsson and Einar Hjörleifsson	
		Keywords: harvest control rules, stochastic simulations, autocorrelation, stock-recruitmentfunctions, assessment error	
15)	H:09 Oral	Title: Catch-quota Balancing Regulations in the Icelandic Multi-species Demersal Fishery: Are they useful for advancing Ecosystem-based Management?	09:15
		Authors: Pamela J. Woods, Dan S. Holland, André Punt, and Guðrún Marteinsdóttir	
		Keywords: total allowable catch, individual tradable quota, fisher behavior, sustainability, short-term profit	
16)	H:18 Oral	Title: Towards standardization of MSE algorithms - Is there a minimum MSE ?	09:30
		Authors: Ernesto Jardim, Colin Millar, Iago Mosqueira, Finlay Scott, and Chato Osio	
		Keywords: Management Strategies Evaluation, standard, rapid deploy, long term management plan	
17)	H:26 Oral	Title: Quantifying trends and thresholds in responses of ecological indicators to the combined effects of fishing and environmental pressure	09:45
		Authors: Scott Large, Gavin Fay, Kevin Friedland, and Jason Link	
		Keywords: Reference points, EBFM, NES LME, Generalized additive models	
18)	H:27 Oral	Title: Setting thresholds for management Advice – Environmental indicators as a tool for an integrated assessment of Eastern Baltic cod (<i>Gadus morhua</i>)	10:00
		Authors: Muriel-Marie Kroll, Christian Möllmann, Ute Jacob, and Anna Gårdmark	
		Keywords: Environmental indicators, threshold, Baltic cod, management	

		advice, recruitment success	
		Discussion	10:15
		Coffee break	10:30
19)	H:15 Oral	Title: Sustainability objectives of the future CFP: regional objectives in a German case study Authors: Leyre Goti Ralf Döring Keywords: sustainability objectives, CFP, regional objectives	11:00
20)	H:17 Oral	Title: Conflicting objectives for optimal ecosystem management of fisheries Authors: Ken Haste Andersen, Lars Ravn-Jonsen, and Keith Brander Keywords: multi-species, Maximum Sustainable Yield, profit, conservation	11:15
21)	H:22 Oral	Title: Balancing policy and stakeholder drivers towards ecosystem-based long-term management plans. Authors: Mike Fitzpatrick and Dave Reid Keywords: fisheries, long-term management plans, ecosystem approach	11:30
22)	H:02 Oral	Title: Integrating stochastic age-structured population dynamics in complex fisheries economic models for management evaluations: The North Sea saithe fishery as a case study Authors: Sarah Laura Simons, Heleen Bartelings, Katell Gaelle Hamon, Alexander Johannes Kempf, Ralf Döring, and Axel Temming Keywords: Fishery management, harvest control rule, population dynamics, economics, models	11:45
23)	H:19 Oral	Title: Do sustainable harvesting strategies need to account for fisheries-induced evolution? Authors: Mikko Heino, Erin S. Dunlop, Olav Rune Godø, and Ulf Dieckmann Keywords: evolutionarily enlightened management, fisheries-induced evolution, sustainable harvesting	12:00
		Poster presentations, 5 minutes per poster: H:38, H:39, H:42, H:43, H:45	12:15
		Discussion	12:45
		Lunch	13:00
24)	H:04 Oral	Title: European Fisheries Policy and the Common Pool Problem in the Council of Ministers Authors: Julia Hoffmann and Martin F. Quaas Keywords: fisheries, fishery economics, environmental uncertainty, constant escapement	14:00
25)	H:06	Title: The growing value of age: Exploring economic gains from age-specific harvesting	14:15

	Oral	Authors: Florian Diekert	
		Keywords: Bio-economics, NEA cod, Harvest control rule, Age structure, Fisheries management.	
26)	H:12 Oral	Title: Ecological and economic impacts of new Harvest Control Rules drawn from the forthcoming Common Fisheries Policy on the Eastern Channel flatfish fisheries	14:30
		Authors: Sigrid Lehuta, Paul Marchal, Youen Vermard, and Sandrine Vaz	
		Keywords: Harvest Control Rules, Management Strategy Evaluation, Spatialized model, mixed fishery, Eastern Channel	
27)	H:21 Oral	Title: Management of the North Sea flatfish fishery: exploring alternative ITQ systems	14:45
		Authors: K. G. Hamon, H. Bartelings, F. Buisman, and J. A. E van Oostenbrugge, B. de Vos	
		Keywords: Individual Transferable quota, fishers behaviour, North Sea flatfish	
28)	H:35 Oral	Title: Changes in quota market functionality of a rock lobster fishery at times of decrease and increase in stock abundance	15:00
		Authors: Rafael León, Ingrid van Puten, Caleb Gardener, and Klaas Hartmann	
		Keywords: Ownership, fished quota, temporary/permanent transference, trading behaviour, Multistage Markov model, ITQ, <i>Jasus edwardsii</i> , Tasmania.	
		Discussion and wrap up	15:15
		End of session	16:00

Posters

H:34 Poster	Title: Managing fishers' livelihoods and market constraints to manage small-scale fisheries	
	Authors: P. F. M. Lopes, Ram Silvano, and A. Begossi	
	Keywords: marine protected areas, artisanal fisheries, co-management, reef fishes	
H:36 Poster	Title: Energy use in fisheries: Findings in the northern and southern hemispheres	
	Authors: Robert W. R. Parker, and Peter H. Tyedmers	
	Keywords: European fisheries, Australian fisheries, fuel consumption, greenhouse gas emissions, economic sustainability, environmental sustainability	
H:37 Poster	Title: Analysis of CPUE data time-series for Latvian fishing fleet	
	Authors: Olga Ozernaja and Svecovs Fausts	
	Keywords: CPUE, effort, management, fishery, fishing vessels	
H:38	Title: Reconciling stakeholder conflicts through integrated assessments of	

Poster	sustainable harvesting strategies
	Authors: Dorothy J. Dankel, Mikko Heino, and Ulf Dieckmann
	Keywords: bioeconomics, harvest strategies, multiple-objective optimization, stakeholder satisfaction, sustainability

H:39 Poster	Title: Simulating the impact of fishing on a stock – introducing the Single-Species Size-Spectrum Simulator
	Authors: Ken Haste Andersen, Alexandros Kokkalis, and Jan E. Beyer
	Keywords: Beverton-Holt, data-poor, maximum sustainable yield

H:42 Poster	Title: Growth curve modeling (GCM) and possible application in fish stock assessment.
	Authors: Agnar Steinarsson
	Keywords: Growth modeling, growth potential, cohort growth rates, stock yield.

H:43 Poster	Title: Testing harvest control rules developed for stocks with age-based assessments on a data limited species.
	Authors: Bjarki Þór Elvarsson and Gudmundur Thordarson
	Keywords: Harvest control rules, stock assessment, data limited stocks, bootstrap, Gadget.

H:45 Poster	Title: Towards ecological and economical realism – modelling trade-offs in multispecies fisheries
	Authors: Rudi Voss, Martin F. Quaas, Jörn O. Schmidt, and Christian Möllmann
	Keywords: Ecosystem-based management, trade-offs, ecological-economic model, Baltic, conservation, social equity

Theme Session I

Marine spatial planning: The multidisciplinary approach

Conveners: Vanessa Stelzenmüller, Germany, Eugene Nixon, Ireland, and Robert J. Brock

Agenda and Order of the Day

Monday 23 September 2013, 15:30–18:30, Silfurberg B

Tuesday 24 September 2013, 10:00–13:00, 14:00–15:30, 16:00–18:00, Silfurberg B

Wednesday 25 September 2013, 10:00–11:30, Silfurberg B

- 1) Opening and introduction
- 2) Appointment of rapporteur
- 3) Presentation of papers

	CM Code		Time
1)	I:06 Oral	<p>Title: Quantitative incorporation of fishers' spatial access priorities into strategic conservation planning and fisheries management</p> <hr/> <p>Authors: K. L. Yates and D. S. Schoeman</p> <hr/> <p>Keywords: spatial management, protected areas, fisheries management, marine conservation, stakeholder engagement, strategic conservation planning</p>	15:30
2)	I:33 Oral	<p>Title: Using high-resolution fishing effort estimates in the design of protection measurements for vulnerable marine ecosystems</p> <hr/> <p>Authors: Julian M. Burgos, Stefán Á. Ragnarsson, and Steinunn H. Ólafsdóttir</p> <hr/> <p>Keywords: Cold-water corals, electronic logbooks, vessel monitoring system, marine protected areas</p>	15:45
3)	I:27 Oral	<p>Title: Mapping fishing activity in Scotland's inshore waters – analytical approaches applied to data from fishery stakeholders</p> <hr/> <p>Authors: Andronikos Kafas, Anne McLay, Marianna Chimienti, and Matt Gubbins</p> <hr/> <p>Keywords: ScotMap, Inshore fisheries, mapping, fishery stakeholders, Scotland</p>	16:00
4)	I:35 Oral	<p>Title: Identification of essential habitats for demersal stocks, a first step towards the implementation of spatial planning for Mediterranean fisheries</p> <hr/> <p>Authors: F. Colloca <i>et al.</i></p> <hr/> <p>Keywords: Mediterranean, spatial modelling, nurseries, EAF</p>	16:15
5)	I:13 Oral	<p>Title: Marine spaces: thought for food</p> <hr/> <p>Authors: Reg Watson <i>et al.</i></p> <hr/> <p>Keywords: food security, marine resources, marine protected areas, fisheries productivity</p>	16:30

6)	I:23 Oral	Title: Towards an assessment of spatial interaction between human activities Authors: Youen Vermard, Paul Marchal, and Sigrid Lehuta Keywords: Fine scale data, spatial interactions, human activities, fish distribution	16:45
7)	I:07 Oral	Title: Evaluating multifunctional use of offshore wind farms in the German EEZ - a GIS modelling approach Authors: Antje Gimpel, Britta Grote, and Vanessa Stelzenmüller Keywords: German EEZ, geographic information system (GIS), integrated multi-trophic aquaculture (IMTA), marine spatial planning (MSP), multi criteria evaluation (MCE), multifunctional use, offshore site selection, spatial management scenario	17:00
8)	I:08 Oral	Title: A multi-player marine spatial allocation game: the case of Dogger Bank Authors: Zacharoula Kyriazi, Frank Maes, Magda Vincx, Jan Vanaverbeke, and Steven Degraer Keywords: competition for marine space, game theory, cooperative solutions	17:15
9)	I:32 Oral	Title: Experimental forecasts of the ecological consequences of spatial management decisions: an experiment on sandeel and the Dogger Bank Natura 2000 process Authors: David Goldsborough, Thomas Kirk Sørensen, and Asbjørn Christensen Keywords: marine spatial planning, modelling, simulation, spatial management proposals, ecological effects	17:30
10)	I:09 Oral	Title: Can spatial management of human activities help robustly reaching management goals? Authors: Loïc Gasche, Stéphanie Mahévas, Paul Marchal, Sigrid Lehuta, and Michel Desprez Keywords: channel, spatial management, ISIS-Fish, habitats, dredging, windfarms, flat-fish fishery, interactions.	17:45
11)	I:12 Oral	Title: Using a multi-disciplinary approach to quantify spatial overlap between deep diving seabirds and tidal stream turbines Authors: J. J. Waggitt, B. J. Williamson, Ph. Blondel, P. S. Bell, and B. E. Scott Keywords: offshore developments, marine renewable energy installations (MREI), seabirds, physical oceanography, marine ecology	18:00
12)	I:14 Oral	Title: GPS tracking of great skuas (<i>Stercorarius skua</i>) to investigate interactions with fisheries and marine renewable energy developments Authors: H. M. Wade <i>et al.</i> Keywords: vessel monitoring system, telemetry, marine protected areas, seabird behaviour, seabird distributions, movement ecology	18:15

Tuesday 24 September 2013, 10:00–13:00, 14:00–15:30, 16:00–18:00, Silfurberg B

13)	I:17 Oral	<p>Title: Towards an accurate mapping of diversity indices</p> <hr/> <p>Authors: Nicolas Bez, Victoria Suntov, Jean-Marc Fromentin, and Bastien Mérigot</p> <hr/> <p>Keywords: spatial distribution, diversity, richness, Rao's quadratic entropy, simulations</p>	10:00
14)	I:25 Oral	<p>Title: Utilizing acoustic telemetry to develop spatial and temporal protection of the endangered Atlantic sturgeon</p> <hr/> <p>Authors: Keith J. Dunton, Adrian Jordaan, Kim McKown, and Michael G. Frisk</p> <hr/> <p>Keywords: Spatial management, human activities, fisheries, protected species</p>	10:15
15)	I:19 Oral	<p>Title: Marine Spatial Planning in the Coastal North Sea – the COEXIST framework application as a mapping out approach</p> <hr/> <p>Authors: Katrine Soma <i>et al.</i></p> <hr/> <p>Keywords: Coastal North Sea, COEXIST framework, decision support, marine spatial planning (MSP), spatial management, stakeholder consultation</p>	10:30
16)	I:02 Oral	<p>Title: Developing and testing approaches for marine spatial planning: the case of aquaculture.</p> <hr/> <p>Authors: Lauren McWhinnie, Robert Briers, Ian Davies, Matthew Gubbins, and Teresa F. Fernandes.</p> <hr/> <p>Keywords: marine spatial planning, zoning schemes, geographical information systems, aquaculture</p>	10:45
17)	I:21 Oral	<p>Title: Spatial management strategies influence disease interactions and animal health</p> <hr/> <p>Authors: Øivind Bergh <i>et al.</i></p> <hr/> <p>Keywords: diseases, spatial management measures, biosecurity, risk modulation</p>	11:00
18)	I:05 Oral	<p>Title: Marine Spatial Planning in Practice</p> <hr/> <p>Authors: Jeremy Collie <i>et al.</i></p> <hr/> <p>Keywords: decision-support tools, marine spatial planning, performance assessment, policies, tradeoffs</p>	11:15
19)	I:15 Oral	<p>Title: Lessons learned in Marine Spatial Planning (MSP): The Shetland experience</p> <hr/> <p>Authors: Christina Kelly, Lorraine Gray, and Rachel Shucksmith</p> <hr/> <p>Keywords: Shetland, marine, spatial plan, evaluation, monitoring</p>	11:30
20)	I:16 Oral	<p>Title: Shetland Marine Spatial Plan: Developing spatial guidance for renewables</p> <hr/> <p>Authors: Rachel Shucksmith, Lorraine Gray, Christina Kelly, iLaria Marengo,</p>	11:45

		and Jacqueline Tweddle	
		Keywords: Shetland, marine spatial plan, renewable energy, spatial guidance	
21)	I:28 Oral	Title: Interactions of commercial fisheries and marine renewable energy developments in Scottish waters	12:00
		Authors: Andronikos Kafas, Gareth Jones, Ian Davies, and Beth Scott	
		Keywords: marine renewables, commercial fisheries, interactions, Scotland	
22)	I:18 Oral	Title: Economic Impacts of Spatial management, a case study for the North Sea	12:15
		Authors: Bartelings, H., K. Hamon., E. Buisman, and H. van Oostenbrugge	
		Keywords: spatial modelling, optimization	
23)	I:22 Oral	Title: Evaluation of spatial planning as a tool for integrated marine and coastal management: serious gaps and interesting opportunities	12:30
		Authors: Andrea Morf, Gonçalo Carneiro, Anders Grimvall, Cecilia Lindblad, and David Goldsborough	
		Keywords: evaluation, marine spatial planning, integrative coastal management, ecosystem approach, Sweden	
24)	I:10 Oral	Title: A decade of marine spatial planning in Belgium: a journey towards integrated management	12:45
		Authors: Ellen Pecceu, An Cliquet, Frank Maes, and Kris Hostens	
		Keywords: marine spatial planning, governance, integrated management	
		Lunch break	13:00
25)	I:26 Oral	Title: Experiences from applying a generic framework for the monitoring and evaluation of spatially managed areas in nine case studies in EU sea basins	14:00
		Authors: Lene Buhl-Mortensen <i>et al.</i>	
		Keywords: Spatially Managed Areas, integrated framework, ecosystem components, human activities, conflict resolution	
26)	I:04 Oral	Title: Development of guidance for better integration of aquaculture, fisheries and other activities in coastal waters	14:15
		Authors: V. Stelzenmüller <i>et al.</i>	
		Keywords: integration of human uses, evaluation, GIS, monitoring, practical tools, spatial management measures	
27)	I:34 Oral	Title: Integrating ecosystem considerations into marine spatial management of human activities	14:30
		Authors: Jake Rice and Roland Cormier	
		Keywords: Risk assessment, risk management, marine spatial planning	
28)	I:24 Oral	Title: Ecosystem based management – three context-specific dimensions of interaction between stakeholders	14:45
		Authors: Christine Röckmann, Judith van Leeuwen, David Goldsborough,	

		Marloes Kraan, and Gerjan Piet	
		Keywords: Ecosystem based management, governance perspective, participation, joint knowledge production, scientific policy advice	
29)	I:31 Oral	Title: Integration at the round table – Marine Spatial Planning in multi-stakeholder settings	15:00
		Authors: E. Olsen, A. H. Hoel, D. L. Fluharty, F. Maes, and E. Pecceu	
		Keywords: Marine Spatial Planning, MSP, governance, integrated management, multi-stakeholder	
30)	I:11 Oral	Title: Integrated maritime governance: applied consideration of existing legal frameworks	15:15
		Authors: A. M. O'Hagan and J. Gault	
		Keywords: aquaculture and fisheries, integrated maritime governance, COEXIST project, interactions, law, institutions	
		Coffee break	15:30
31)	I:20 Oral	Title: The need for an integrated management framework to support Maritime Spatial Planning	16:00
		Authors: J. Gault and A. M. O'Hagan	
		Keywords: ICZM, aquaculture, marine renewable energy, participatory processes	
32)	I:01 Oral	Title: Marine spatial planning: achieving and evaluating integration	16:15
		Authors: Michelle Portman	
		Keywords: boundary demarcation, integration, oceans policy, sectoral management	
33)	I:03 Oral	Title: Planned Edge - integrating spatial planning across the land sea divide	16:30
		Authors: Kate R Johnson, Sandy A Kerr, and Jonathan C Side	
		Keywords: Planning; Integration; Land sea divide	
34)	I:29 Oral	Title: Transnational Planning Issues and Governance in Maritime Spatial Planning	16:45
		Authors: Bettina Käppeler	
		Keywords: Maritime Spatial Planning, governance, transnational consultation	
35)	I:30 Oral	Title: The Maritime Spatial Planning – from planning for society to planning with society	17:00
		Authors: R. Aps, M. Kopti, and Ü. Suursaar	
		Keywords: Baltic Sea, Maritime Spatial Planning, fisheries, transdisciplinarity, Mutual Learning, knowledge integration	
		Discussion	17:15

Wednesday 25 September 2013, 10:00–11:30, Silfurberg B

Poster presentations (5 minutes per poster)		10:00
I:36 Poster	<p>Title: Marine Spatial Planning in Action: Pentland Firth and Orkney Waters case study</p> <hr/> <p>Authors: Shona Turnbull, Tracy McCollin, and James Green</p> <hr/> <p>Keywords: marine spatial planning, Pentland Firth, Orkney, Scotland</p>	
I:37 Poster	<p>Title: Getting to know the family: Genetic Connectivity of <i>Modiolus modiolus</i> Beds around the UK</p> <hr/> <p>Authors: Kate Gormley, Dr. Joanne Porter and Prof. Angela Hull</p> <hr/> <p>Keywords: Microsatellites, Connectivity, <i>Modiolus modiolus</i>, biodiversity</p>	
I:39 Poster	<p>Title: Spatiotemporal overlap of oil spills and early life stages of fish</p> <hr/> <p>Authors: Frode B. Vikebø, Petter Rønningen, Vidar S. Lien, Sonnich Meier, Mark Reed, Bjørn Ådlandsvik, and Trond Kristiansen</p> <hr/> <p>Keywords: Individual-based model, ichthyoplankton, oil drift model, Oscar, Northeast Arctic cod, exposure, toxicity, Lofoten, polycyclic aromatic hydrocarbons</p>	
I:40 Poster	<p>Title: PartiSEApate: Pan-Baltic Stakeholder Dialogues for a sea-basin approach towards MSP</p> <hr/> <p>Authors: Angela Schultz-Zehden</p> <hr/> <p>Keywords: stakeholder involvement, sector engagement, pan-Baltic view, climate change, underwater cultural heritage, mariculture</p>	
I:41 Poster	<p>Title: The importance of collaborative research when making government level decisions: an example with top predators and marine renewable energy installations</p> <hr/> <p>Authors: Z. Allcock, A. M. C. Robbins, H. Wade, J. J. Waggitt, P. S. Bell, and B. E. Scott</p> <hr/> <p>Keywords: meta-analysis, offshore developments, marine renewable energy installations (MREI), seabirds, marine mammals. marine ecology</p>	
I:42 Poster	<p>Title: Rationalisation of anthropogenic pressure data layer development for operational management: an example for physical change</p> <hr/> <p>Authors: Alexander Koch and Freya Goodsir</p> <hr/> <p>Keywords: Anthropogenic Pressure, Physical change to sea bed type, human activities, marine spatial planning, footprint</p>	
I:43 Poster	<p>Title: Long-term acoustic measurements of the environment around marine renewable energy devices</p> <hr/> <p>Authors: B. J. Williamson, Ph. Blondel, J. J. Waggitt, P. S. Bell, and B. E. Scott</p> <hr/> <p>Keywords: Marine renewable energy, environmental monitoring, remote sensing, underwater acoustics, multibeam sonar, seabirds, foraging ecology,</p>	

physical oceanography	
I:45 Poster	<p>Title: Shared space for fisheries and marine renewables: interactions, impacts and opportunities</p> <p>Authors: Michael Bell, Kate Walker, Jon Side, Sandy Kerr, and Kate Johnson</p> <p>Keywords: fisheries, marine renewable energy, spatial interactions, spatial management</p>
I:46 Poster	<p>Title: Effects of trawling impacts on mega-epibenthic communities from heavy exploited to undisturbed areas in a Mediterranean fishing ground (Central Mediterranean Sea).</p> <p>Authors: M. Cristina Mangano <i>et al.</i></p> <p>Keywords: ecosystem management, Fishery Exclusion Zones, VMS, Southern Tyrrhenian Sea</p>
I:47 Poster	<p>Title: Marine spatial planning on the Dogger Bank: Reflections on the cross border spatial planning process for the adjoining Natura 2000 sites</p> <p>Authors: David Goldsborough</p> <p>Keywords: cross border spatial planning process, stakeholder participation, dialogue, role of actors, terms of reference</p>
I:48 Poster	<p>Title: The Guf of Finland Year 2014</p> <p>Authors: Kai Myrberg and Kirsi Kostamo</p> <p>Keywords: Gulf of Finland, ecosystem approach, maritime spatial planning</p>
I:49 Poster	<p>Title: Diversity of marine management approaches in the Southern North Sea – governance analyses stress the need for clarity and transparency of management processes</p> <p>Authors: Christine Röckmann <i>et al.</i></p> <p>Keywords: MSP, North Sea, governance, uncertainty, transparency</p>
	<p>Discussion 11:00</p> <p>End of session 11:30</p>

Theme Session J

What's the catch? Designing and implementing statistically sound fishery sampling schemes in the real world

Conveners: Jon Helge Vølstad, Norway, Mike Armstrong, UK, and Paul Rago, USA

Agenda and Order of the Day

Thursday 26 September 2013, 17:30–18:00, Silfurberg A

Friday 27 September 2013, 09:00–10:30, 11:00–13:00, 14:00–16:00, Silfurberg A

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|----|---------------------------|-------|
| 1) | Opening and introduction | 17:30 |
| 2) | Appointment of rapporteur | |
| 3) | Presentation of papers | |

	CM Code		Time
1)	J:24 Poster	<p>Title: In season assessment of English Channel Loliginid squid abundance: empirical predictions of cohort strength based on selected commercial fishing vessels, biological sampling and SST. temperature data</p> <hr/> <p>Authors: J. P. Robin, M. Gras, E. Duhem, and E. Foucher</p> <hr/> <p>Keywords: annual lifespan, fishery forecasts, <i>Loliginid squid</i>, mixed fisheries</p>	17:45
2)	J:22 Poster	<p>Title: Application of generalized additive models to examine ontogenetic and seasonal distributions of spiny dogfish (<i>Squalus acanthias</i>) in the Northeast US continental shelf large marine ecosystem</p> <hr/> <p>Authors: Skyler R. Sagarese, Michael G. Frisk, Robert M. Cerrato, Kathy A. Sosebee, John A. Musick, and Paul J. Rago</p> <hr/> <p>Keywords: Elasmobranch, habitat modeling, distribution, generalized additive model, ontogeny, prey abundance, forecasting</p>	17:50
3)	J:23 Poster	<p>Title: Quantifying and describing river herring bycatch in the U.S. northwest-Atlantic mid-water trawl fisheries</p> <hr/> <p>Authors: N. David Bethoney, Co-authors: Brad Schondelmeier, Bill Hoffman, Mike Armstrong, and Kevin Stokesbury</p> <hr/> <p>Keywords: sampling design, alewife, blueback herring</p>	17:55

Friday 27 September 2013, 09:00–10:30, 11:00–13:00, and 14:00–16:00, Silfurberg A

3046	J:01 Oral	<p>Title: Discard ban – how to monitor a discard ban on a regional level.</p> <hr/> <p>Authors: Marie Storr-Paulsen, Kirsten Birch Håkansson, Josefine Egekvist, Jon Helge Vølstad, and Katja Ringdahl</p> <hr/> <p>Keywords: Discard ban, monitor, sampling program, regional</p>	09:00
3056	J:21 Oral	<p>Title: Behind the shine: An appraisal of five years of Danish CCTV trials.</p> <hr/> <p>Authors: Clara Ulrich, Jørgen Dalskov, Josefine Egekvist, Kirsten Birch Håkansson, Hans Jakob Olesen, and Marie Storr-Paulsen</p> <hr/> <p>Keywords: Fully Documented Fisheries (FDF); Remote Electronic Monitoring (REM), Catch Quota Management, discards ban</p>	09:15
3409	J:11 Oral	<p>Title: Pressing rewind: A cause for pause on electronic monitoring in the North Pacific?</p> <hr/> <p>Authors: Farron Wallace, Craig Faunce, and Martin Loefflad</p> <hr/> <p>Keywords: electronic monitoring, fisheries observers, at-sea sampling challenges, Alaska, groundfish fisheries</p>	09:30
3416	J:13 Oral	<p>Title: Going back in time: reconstruction of discard time series from a Portuguese fishery</p> <hr/> <p>Authors: Cristina Silva, Nuno Prista, Manuela Azevedo, and Ana Cláudia Fernandes</p> <hr/> <p>Keywords: discards, effort, quality control assurance, data collection, Portugal, logbooks, sales, VMS</p>	09:45
3509	J:20 Oral	<p>Title: Monitoring artisanal fisheries in the Basque Country: (Skippers involvement and participation in the data collection process)</p> <hr/> <p>Authors: E. Mugerza, A. Murillas-Maza, J. Ruiz, L. Zarauz, L. Arregi, N. Alzorriz, and I. Artetxe</p> <hr/> <p>Keywords: monitoring, specific surveys, skippers, governance, automatic identification system.</p>	10:00
3276	J:09 Oral	<p>Title: By-catch of seabirds in Norwegian coastal fisheries – comparison of estimation methods with regards to bias</p> <hr/> <p>Authors: Kirstin Fangel <i>et al.</i></p> <hr/> <p>Keywords: In situ survey, personal interviews, reference fleet, sales notes, landed catch</p>	10:15
Coffee break			10:30
3463	J:16 Oral	<p>Title: Development of a statistically sound design for the deployment of fishery observers in Alaska</p> <hr/> <p>Authors: Craig H. Faunce, Farron Wallace, Jason Gasper, Jennifer Cahalan, and Martin Loefflad</p>	11:00

		Keywords: sampling design, sampling frame, observer cost, Alaska, fisheries observers, commercial fisheries	
3465	J:17 Oral	Title: Implementing a statistically sound design for the deployment of fishery observers in Alaska	11:15
		Authors: Craig H. Faunce, Paul Packer, Martin Park, Glenn Campbell, and Doug Turnbull	
		Keywords: sampling efficiency, observer cost, Alaska, fisheries observers, commercial fisheries, design implementation, data quality, computer applications	
3420	J:14 Oral	Title: Practical implementation of design based catch sampling schemes: the Scottish experience.	11:30
		Authors: Alastair Pout and Liz Clarke	
		Keywords: survey design, catch sampling, sampling frames, stratification, probability, fisheries	
3468	J:18 Oral	Title: Can random sampling methods be used successfully to sample catches at sea? Implementation of random sampling on commercial fishing vessels in the Federal groundfish fisheries off Alaska	11:45
		Authors: Jennifer Cahalan	
		Keywords: fisheries observers, random sampling, species composition, at-sea sampling challenges, Alaska, commercial groundfish fisheries	
3483	J:19 Oral	Title: Catch estimation in the Federal trawl fisheries off Alaska: A simulation approach to compare the statistical properties of the simple mean estimator, a deterministic imputation method, and the ratio estimator	12:00
		Authors: Jennifer Cahalan, Jason Gasper, and Jennifer Mondragon	
		Keywords: catch estimation, ratio estimators, design-based estimators, simulation, Alaska, commercial groundfish fisheries	
3149	J:03 Oral	Title: Comparing model-based and design-based estimators for catch-at-age	12:15
		Authors: David Hirst, Sondre Aanes, and Jon Helge Vølstad	
		Keywords: Bayesian model, design-based estimation, catch-at-age	
3150	J:04 Oral	Title: A simulation study to establish the relationship between sample sizes and the uncertainty in estimates of catch-at-age from multi-stage sampling programs.	12:30
		Authors: David Hirst, Sondre Aanes, and Jon Helge Vølstad	
		Keywords: Sample size, uncertainty, catch-at-age	
3217	J:05 Oral	Title: An evaluation of statistical methods to estimate abundance indices of Alaska longline sablefish fishery	12:45
		Authors: Ivan Mateo Dana H Hanselman	
		Keywords: keywords: statistical methods, CPUE standardization, abundance indices	

		Lunch break	13:00
3330	J:10 Oral	Title: The effect of sampling intensity on the final product: the assessment and the advice Authors: Gudmundur Thordarson Keywords: Sampling, Sampling intensity, catch in numbers, stock assessment	14:00
3269	J:07 Oral	Title: Assessing adequate level of sampling in monitoring programs to support stock assessment and estimation of biological reference points for Northeast Arctic Cod Authors: Sondre Aanes, Sam Subbey, and Jon Helge Vølstad Keywords: Survey, catch-at-age, sampling, precision, stock assessment, reference points	14:15
3272	J:08 Oral	Title: Evaluating sampling strategies and comparing statistical estimators with the use of age-length keys to estimate age-distributions of Northeast Arctic Cod Authors: Sondre Aanes and Jon Helge Vølstad Keywords: Survey, catch-at-age, age distribution, age-length key, design-based estimation, precision, effective sample size	14:30
3116	J:02 Oral	Title: Precision and bias of discard estimates from the French onboard observer programme Authors: Marie-Joëlle Rochet, Joël Diméet, Benoît Dubé, Laurence Fauconnet, and Verena Trenkel Keywords: Onboard observer programme, sampling design, precision and bias, discard estimates	14:45
3415	J:12 Oral	Title: How much is enough? Estimating minimum sample size to attain precision levels required in on-board sampling Authors: N. Prista, E. Jardim, and M. Azevedo Keywords: Discards, Precision, Sampling effort, Data collection, Portugal	15:00
3437	J:15 Oral	Title: Catch data submission and collation using InterCatch: advice to stock assessment working groups and implications for the regional database. Authors: Liz Clarke and Alastair Pout Keywords: catch-at-age, catch sampling, data collation, domain estimation, InterCatch, regional database, regional sampling, stock assessment data	15:15
		Discussion	15:30
		End of session	16:00

Theme Session K
Quantitative value of coastal habitats for exploited species

Conveners: Romuald Lipcius, USA, Ingrid Tulp, the Netherlands, and Håkan Wennhage,
 Sweden

Agenda and Order of the Day

Wednesday 25 September 2013, 11:30–13:00, Silfurberg B
 Thursday 26 September 2013, 08:30–10:00, 10:30–12:00, Silfurberg B

Chair: Rom Lipcius

- 1) Opening and introduction 11:30
- 2) Appointment of rapporteur
- 3) Presentation of papers

	CM Code		Time
1)	K:07 Oral	<p>Title: Water quality, habitat and fisheries model linkages to explore resource management strategies</p> <hr/> <p>Authors: Howard Townsend, Steve Newbold, and Mejs Hasan</p> <hr/> <p>Keywords: Ecosystem Model, Chesapeake Bay, Habitat Model</p>	11:45
2)	K:06 Oral	<p>Title: Impact of Urbanization on Salt Marsh Habitat Value for Nekton Resources in the Northern Gulf of Mexico</p> <hr/> <p>Authors: Michael R. Lowe and Mark S. Peterson</p> <hr/> <p>Keywords: salt marsh habitat, nursery function, urbanization, trophic linkages</p>	12:00
3)	K:13 Oral	<p>Title: Urbanized juvenile habitats support recreational fisheries in the Tampa Bay estuary, Florida (USA): Evidence from otolith elemental fingerprinting of common snook (<i>Centropomus undecimalis</i>) and red drum (<i>Sciaenops ocellatus</i>)</p> <hr/> <p>Authors: Holly J. Rolls, David L. Jones, Carole C. McIvor, Janet A. Ley, and Ernst B. Peebles</p> <hr/> <p>Keywords: juvenile habitat, natural tags, otolith elemental fingerprinting, west-central Florida</p>	12:15
4)	K:14 Oral	<p>Title: Habitat effects on population dynamics and fishery production of the eastern oyster</p> <hr/> <p>Authors: Nicholas Ducharme-Barth, Romuald N. Lipcius, Leah B. Shaw, and Junping Shi</p> <hr/> <p>Keywords: coastal habitat, population dynamics, quantitative habitat value, fishery production</p>	12:30
		Discussion	12:45

Thursday 26 September 2013, 08:30–10:00, Silfurberg B

Chair: Håkan Wennhage

5)	K:04 Oral	Title: An integrated life-cycle model to assess the contribution of connectivity between successive life stages to the productivity of nursery-dependent flatfish populations	08:30
		Authors: B. Archambault, L. Baulier, M. Huret, E. Rivot, and O. Le Pape	
		Keywords: essential habitats, life-cycle, hierarchical Bayesian modelling, connectivity, larval drift	
6)	K:03 Oral	Title: Modelling the distribution of the Great scallop <i>Pecten maximus</i> in the English Channel: linking physical and biological processes to define scallop habitat.	08:45
		Authors: P. Cugier, C. Legoff, R. Lavaud, F. Jean, J. Flye-Sainte-Marie, E. Foucher, and S. Fifas	
		Keywords: Population dynamics, bioenergetic, models, Great scallop habitat, English Channel	
7)	K:12 Oral	Title: The value of seagrass beds as nurseries in Chesapeake Bay, USA	09:00
		Authors: C. M. Jones	
		Keywords: seagrass nurseries, Chesapeake Bay, juvenile fish, climate change	
8)	K:11 Oral	Title: Density and size of <i>Cystoseira</i> forests affect their nursery value for Mediterranean rocky reef fishes	09:15
		Authors: Adrien Cheminée, Pierre Thiriet <i>et al.</i>	
		Keywords: Nursery value, habitat transformations, <i>Cystoseira</i> , abundance patterns, assemblages, behavior, habitat quality, edge effect	
9)	K:08 Oral	Title: Macroalgal assemblage's complexity affects fish distribution patterns by mediating prey-predator relationships	09:30
		Authors: Pierre Thiriet <i>et al.</i>	
		Keywords: <i>Cystoseira</i> , forest, barren grounds, algae, fish, predation, behavior, habitat, regime shift, complexity	
10)	K:15 Oral	Title: Electrical trawling for brown shrimp: Consequences for young life stages in spawning areas?	09:45
		Authors: Marieke Desender, Bart Verschueren, Hans Polet, Koen Chiers, Annemie Decostere	
		Keywords: pulse fishing, life stages, survival, development	

Thursday 26 September 2013, 10:30–12:00, Silfurberg B

Chair: Rom Lipcius

11)	K:09 Oral	Title: Coastal habitat use by commercially and ecologically important species	10:30
		Authors: Rochelle D. Seitz, Håkan Wennhage , Ulf Bergström, Romuald N. Lipcius, and Tom Ysebaert	
		Keywords: coastal habitat, feeding, fisheries, migration, nursery, reproduction, spawning	
12)	K:01 Oral	Title: Quantitative assessments of the value of coastal habitats for exploited marine fish and invertebrates: a review	10:45
		Authors: Rita P. Vasconcelos, Olivier Le Pape, Dave B. Eggleston, Håkan Wennhage, and Ingrid Tulp	
		Keywords: coastal area, demographic rates, fish, habitat, invertebrates, population dynamics	

Chair: Håkan Wennhage

13)	K:10 Oral	Title: Population models quantifying the value of coastal habitats for exploited species	11:00
		Authors: Romuald N. Lipcius <i>et al.</i>	
		Keywords: coastal habitat, population dynamics, quantitative habitat value, fishery production	
14)	K:02 Oral	Title: Habitat availability limits stock sizes of coastal predatory fish	11:15
		Authors: Ulf Bergström, Göran Sundblad, Alfred Sandström, and Peter Eklöv	
		Keywords: Species distribution modelling, essential fish habitats, habitat loss	
15)	K:05 Oral	Title: Marine habitats under climate change - impacts on coastal benthos and fish	11:30
		Authors: Martin Snickars, Benjamin Weigel and Erik Bonsdorff	
		Keywords: Baltic Sea, coastal ecosystems, trophic links, temperature, secchi depth	

Poster presentations

16)	K:16 Poster	Title: Dynamics of nursery ground processes for juvenile plaice (<i>Pleuronectes platessa</i>) in Icelandic waters - mechanism, growth, recruitment.	11:47
		Authors: Elzbieta Baranowska, Jónas Páll Jónasson, Björn Gunnarsson and Guðrún Marteinsdóttir	
		Keywords: plaice, <i>Pleuronectes platessa</i> , juvenile, Iceland, growth.	
		Concluding remarks	11:49
		End of session	12:00

Theme Session K
Quantitative value of coastal habitats for exploited species

Conveners: Romuald Lipcius, USA, Ingrid Tulp, the Netherlands, and Håkan Wennhage,
 Sweden

Agenda and Order of the Day

Wednesday 25 September 2013, 11:30–13:00, Silfurberg B
 Thursday 26 September 2013, 08:30–10:00, 10:30–12:00, Silfurberg B

Chair: Rom Lipcius

- 1) Opening and introduction 11:30
- 2) Appointment of rapporteur
- 3) Presentation of papers

	CM Code		Time
1)	K:07 Oral	<p>Title: Water quality, habitat and fisheries model linkages to explore resource management strategies</p> <hr/> <p>Authors: Howard Townsend, Steve Newbold, and Mejs Hasan</p> <hr/> <p>Keywords: Ecosystem Model, Chesapeake Bay, Habitat Model</p>	11:45
2)	K:06 Oral	<p>Title: Impact of Urbanization on Salt Marsh Habitat Value for Nekton Resources in the Northern Gulf of Mexico</p> <hr/> <p>Authors: Michael R. Lowe and Mark S. Peterson</p> <hr/> <p>Keywords: salt marsh habitat, nursery function, urbanization, trophic linkages</p>	12:00
3)	K:13 Oral	<p>Title: Urbanized juvenile habitats support recreational fisheries in the Tampa Bay estuary, Florida (USA): Evidence from otolith elemental fingerprinting of common snook (<i>Centropomus undecimalis</i>) and red drum (<i>Sciaenops ocellatus</i>)</p> <hr/> <p>Authors: Holly J. Rolls, David L. Jones, Carole C. McIvor, Janet A. Ley, and Ernst B. Peebles</p> <hr/> <p>Keywords: juvenile habitat, natural tags, otolith elemental fingerprinting, west-central Florida</p>	12:15
4)	K:14 Oral	<p>Title: Habitat effects on population dynamics and fishery production of the eastern oyster</p> <hr/> <p>Authors: Nicholas Ducharme-Barth, Romuald N. Lipcius, Leah B. Shaw, and Junping Shi</p> <hr/> <p>Keywords: coastal habitat, population dynamics, quantitative habitat value, fishery production</p>	12:30
		Discussion	12:45

Thursday 26 September 2013, 08:30–10:00, Silfurberg B

Chair: Håkan Wennhage

5)	K:04 Oral	Title: An integrated life-cycle model to assess the contribution of connectivity between successive life stages to the productivity of nursery-dependent flatfish populations	08:30
		Authors: B. Archambault, L. Baulier, M. Huret, E. Rivot, and O. Le Pape	
		Keywords: essential habitats, life-cycle, hierarchical Bayesian modelling, connectivity, larval drift	
6)	K:03 Oral	Title: Modelling the distribution of the Great scallop <i>Pecten maximus</i> in the English Channel: linking physical and biological processes to define scallop habitat.	08:45
		Authors: P. Cugier, C. Legoff, R. Lavaud, F. Jean, J. Flye-Sainte-Marie, E. Foucher, and S. Fifas	
		Keywords: Population dynamics, bioenergetic, models, Great scallop habitat, English Channel	
7)	K:12 Oral	Title: The value of seagrass beds as nurseries in Chesapeake Bay, USA	09:00
		Authors: C. M. Jones	
		Keywords: seagrass nurseries, Chesapeake Bay, juvenile fish, climate change	
8)	K:11 Oral	Title: Density and size of <i>Cystoseira</i> forests affect their nursery value for Mediterranean rocky reef fishes	09:15
		Authors: Adrien Cheminée, Pierre Thiriet <i>et al.</i>	
		Keywords: Nursery value, habitat transformations, <i>Cystoseira</i> , abundance patterns, assemblages, behavior, habitat quality, edge effect	
9)	K:08 Oral	Title: Macroalgal assemblage's complexity affects fish distribution patterns by mediating prey-predator relationships	09:30
		Authors: Pierre Thiriet <i>et al.</i>	
		Keywords: <i>Cystoseira</i> , forest, barren grounds, algae, fish, predation, behavior, habitat, regime shift, complexity	
10)	K:15 Oral	Title: Electrical trawling for brown shrimp: Consequences for young life stages in spawning areas?	09:45
		Authors: Marieke Desender, Bart Verschueren, Hans Polet, Koen Chiers, Annemie Decostere	
		Keywords: pulse fishing, life stages, survival, development	

Thursday 26 September 2013, 10:30–12:00, Silfurberg B

Chair: Rom Lipcius

11)	K:09 Oral	Title: Coastal habitat use by commercially and ecologically important species	10:30
		Authors: Rochelle D. Seitz, Håkan Wennhage , Ulf Bergström, Romuald N. Lipcius, and Tom Ysebaert	
		Keywords: coastal habitat, feeding, fisheries, migration, nursery, reproduction, spawning	
12)	K:01 Oral	Title: Quantitative assessments of the value of coastal habitats for exploited marine fish and invertebrates: a review	10:45
		Authors: Rita P. Vasconcelos, Olivier Le Pape, Dave B. Eggleston, Håkan Wennhage, and Ingrid Tulp	
		Keywords: coastal area, demographic rates, fish, habitat, invertebrates, population dynamics	

Chair: Håkan Wennhage

13)	K:10 Oral	Title: Population models quantifying the value of coastal habitats for exploited species	11:00
		Authors: Romuald N. Lipcius <i>et al.</i>	
		Keywords: coastal habitat, population dynamics, quantitative habitat value, fishery production	
14)	K:02 Oral	Title: Habitat availability limits stock sizes of coastal predatory fish	11:15
		Authors: Ulf Bergström, Göran Sundblad, Alfred Sandström, and Peter Eklöv	
		Keywords: Species distribution modelling, essential fish habitats, habitat loss	
15)	K:05 Oral	Title: Marine habitats under climate change - impacts on coastal benthos and fish	11:30
		Authors: Martin Snickars, Benjamin Weigel and Erik Bonsdorff	
		Keywords: Baltic Sea, coastal ecosystems, trophic links, temperature, secchi depth	

Poster presentations

16)	K:16 Poster	Title: Dynamics of nursery ground processes for juvenile plaice (<i>Pleuronectes platessa</i>) in Icelandic waters - mechanism, growth, recruitment.	11:47
		Authors: Elzbieta Baranowska, Jónas Páll Jónasson, Björn Gunnarsson and Guðrún Marteinsdóttir	
		Keywords: plaice, <i>Pleuronectes platessa</i> , juvenile, Iceland, growth.	
		Concluding remarks	11:49
		End of session	12:00

Theme Session L
Hydrographic processes, circulation, and water mass formation in the polar and subpolar basins

Conveners: Stephen Dye, UK, Hedinn Valdimarsson, Iceland, and Igor Yashayaev, Canada

Agenda and Order of the Day

Thursday 26 September 2013, 12:00–13:00, 14:00–15:30, and 16:00–18:00, Kaldalón

CM Code	Time
L	Opening , introduction and rapporteur
12:00	
1) L:02 Oral	<p>Title: Interaction between Atlantic 'Polar Low' cyclones and ocean circulation under climate change</p> <hr/> <p>Authors: Tim Woollings</p> <hr/> <p>Keywords: atmosphere-ocean interaction, climate change, mesoscale cyclones</p>
12:05	
2) L:07 Oral	<p>Title: Comparison of the atmospheric forcing and oceanographic responses between the Labrador Sea and the Norwegian and Barents seas</p> <hr/> <p>Authors: K. Drinkwater, E. Colbourne, H. Loeng, S. Sundby, and T. Kristiansen</p> <hr/> <p>Keywords: Labrador Sea, Barents Sea, Norwegian Sea, NAO, climate variability</p>
12:20	
3) L:16 Poster	<p>Title: Can bottom water formation kick-start a spring-bloom in the Barents Sea?</p> <hr/> <p>Authors: Vidar S. Lien and Bjørn Ådlandsvik</p> <hr/> <p>Keywords: Barents Sea; Bottom water; phytoplankton bloom</p>
12:35	
4) L:17 Poster	<p>Title: Measuring the Denmark Strait Overflow plume for a Quarter of a Century</p> <hr/> <p>Authors: S. R. Dye and K. Jochumsen</p> <hr/> <p>Keywords: hydrographic variability, Northeast Atlantic, Denmark Strait overflow</p>
12:35	
5) L:18 Poster	<p>Title: Long-term changes in the temperature and salinity distribution patterns in the Gulf of Riga</p> <hr/> <p>Authors: Maris Skudra and Urmas Lips</p> <hr/> <p>Keywords: salinity/temperature dynamics, long-term changes, two-layer vertical structure, Gulf of Riga</p>
12:35	
	Discussion
	12:45
	Lunch break
	13:00
6) L:15	<p>Title: Exploring the Subpolar Atlantic with Seagliders and Satellite Altimetry</p>
14:00	

	Oral	Authors: Rhines, Hakkinen, Beaird, Frajka-Williams, Hatun, and Eriksen	
		Keywords: hydrography, water masses, mixing, primary production	
7)	L:04 Oral	Title: The Norwegian Atlantic Current Observatory	14:15
		Authors: Kjell Arild Orvik <i>et al.</i>	
		Keywords: NACO, seaglidors, Svinøy section, Lofoten Basin, current, hydrography	
8)	L:12 Oral	Title: New observations in the East Shetland Atlantic Inflow, seasonal patterns of variability in transport from the North Atlantic to the North Sea.	14:30
		Authors: Sarah L. Hughes	
		Keywords: North Sea, North Atlantic, temperature, salinity, currents, transport	
9)	L:13 Oral	Title: The retroflection of the Faroe Current into the Faroe-Shetland Channel	14:45
		Authors: Karin Margretha H. Larsen, Bogi Hansen, and Hjálmar Hátún	
		Keywords: Retroflection, recirculation, seasonal variability	
10)	L:03 Oral	Title: New and improved estimate of freshwater transport of the East Icelandic Current	15:00
		Authors: Andreas Macrander, Héðinn Valdimarsson, and Steingrímur Jónsson	
		Keywords: East Icelandic Current, freshwater transport, current measurements, hydrography, altimetry	
		Discussion	15:15
		Coffee break	15:30
11)	L:08 Oral	Title: Hydrodynamic-sea ice couplings in the Barents Sea and their consequences for marine productivity	16:00
		Authors: Corinna Schrum, Ute Daewel	
		Keywords: Barents Sea, biogeochemistry, hydrodynamics, modelling	
12)	L:06 Oral	Title: Formation of Barents Sea Branch Water in the northeastern Barents Sea and St. Anna Trough	16:15
		Authors: Vidar S. Lien and Alexander G. Trofimov	
		Keywords: Barents Sea; St. Anna Trough; Atlantic Water; Dense water formation	
13)	L:09 Oral	Title: Variability of water properties, currents and fluxes in Nares Strait, connecting the Arctic to the Atlantic Ocean	16:30
		Authors: Berit Rabe, Andreas Münchow, Helen Louise Johnson, and Humfrey Melling	
		Keywords: Freshwater flux, Nares Strait, seawater pathway, variability in fluxes, ice state influence	
14)	L:10	Title: The Seasonal Variability of the East Greenland Coastal Current	16:45

	Oral	Authors: Abigail Marshall, N. Penny Holliday, Sheldon Bacon, Stephen Dye, and Yevgeny Askenov	
		Keywords: East Greenland, freshwater current, Arctic oceanography, seasonal variability	
15)	L:05 Oral	Title: The role of the Kolbeinsey Ridge and the Spar Fracture Zone in the circulation in the Iceland Sea	17:00
		Authors: Steingrímur Jónsson, Héðinn Valdimarsson, and Andreas Macrander	
		Keywords: Iceland Sea, Kolbeinsey Ridge, Spar Fracture Zone, circulation, currents	
16)	L:01 Oral	Title: The South Icelandic Current	17:15
		Authors: K. Logemann, J. Ólafsson, Á. Snorrason, and G. Marteinsdóttir	
		Keywords: Circulation, Atlantic Water, ocean modelling, AMOC	
17)	L:14 Oral	Title: OceanScope – Partnering with industry for the sustained and systematic observation of the oceans.	17:30
		Authors: Thomas Rossby, Charles Flagg, and Corinna Schrum	
		Keywords: OceanScope. Monitoring circulation, ocean physics, ocean chemistry, ocean biology	
		Discussion	17:45
		End of Session	18:00

Theme Session L
Hydrographic processes, circulation, and water mass formation in the polar and subpolar basins

Conveners: Stephen Dye, UK, Hedinn Valdimarsson, Iceland, and Igor Yashayaev, Canada

Agenda and Order of the Day

Thursday 26 September 2013, 12:00–13:00, 14:00–15:30, and 16:00–18:00, Kaldalón

	CM Code		Time
	L	Opening , introduction and rapporteur	12:00
1)	L:02 Oral	Title: Interaction between Atlantic 'Polar Low' cyclones and ocean circulation under climate change Authors: Tim Woollings Keywords: atmosphere-ocean interaction, climate change, mesoscale cyclones	12:05
2)	L:07 Oral	Title: Comparison of the atmospheric forcing and oceanographic responses between the Labrador Sea and the Norwegian and Barents seas Authors: K. Drinkwater, E. Colbourne, H. Loeng, S. Sundby, and T. Kristiansen Keywords: Labrador Sea, Barents Sea, Norwegian Sea, NAO, climate variability	12:20
3)	L:16 Poster	Title: Can bottom water formation kick-start a spring-bloom in the Barents Sea? Authors: Vidar S. Lien and Bjørn Ådlandsvik Keywords: Barents Sea; Bottom water; phytoplankton bloom	12:35
4)	L:17 Poster	Title: Measuring the Denmark Strait Overflow plume for a Quarter of a Century Authors: S. R. Dye and K. Jochumsen Keywords: hydrographic variability, Northeast Atlantic, Denmark Strait overflow	12:35
5)	L:18 Poster	Title: Long-term changes in the temperature and salinity distribution patterns in the Gulf of Riga Authors: Maris Skudra and Urmas Lips Keywords: salinity/temperature dynamics, long-term changes, two-layer vertical structure, Gulf of Riga	12:35
		Discussion	12:45
		Lunch break	13:00
6)	L:15	Title: Exploring the Subpolar Atlantic with Seagliders and Satellite Altimetry	14:00

	Oral	Authors: Rhines, Hakkinen, Beaird, Frajka-Williams, Hatun, and Eriksen	
		Keywords: hydrography, water masses, mixing, primary production	
7)	L:04 Oral	Title: The Norwegian Atlantic Current Observatory	14:15
		Authors: Kjell Arild Orvik <i>et al.</i>	
		Keywords: NACO, seagliders, Svinøy section, Lofoten Basin, current, hydrography	
8)	L:12 Oral	Title: New observations in the East Shetland Atlantic Inflow, seasonal patterns of variability in transport from the North Atlantic to the North Sea.	14:30
		Authors: Sarah L. Hughes	
		Keywords: North Sea, North Atlantic, temperature, salinity, currents, transport	
9)	L:13 Oral	Title: The retroflexion of the Faroe Current into the Faroe-Shetland Channel	14:45
		Authors: Karin Margretha H. Larsen, Bogi Hansen, and Hjálmar Hátún	
		Keywords: Retroflexion, recirculation, seasonal variability	
10)	L:03 Oral	Title: New and improved estimate of freshwater transport of the East Icelandic Current	15:00
		Authors: Andreas Macrander, Héðinn Valdimarsson, and Steingrímur Jónsson	
		Keywords: East Icelandic Current, freshwater transport, current measurements, hydrography, altimetry	
		Discussion	15:15
		Coffee break	15:30
11)	L:08 Oral	Title: Hydrodynamic-sea ice couplings in the Barents Sea and their consequences for marine productivity	16:00
		Authors: Corinna Schrum, Ute Daewel	
		Keywords: Barents Sea, biogeochemistry, hydrodynamics, modelling	
12)	L:06 Oral	Title: Formation of Barents Sea Branch Water in the northeastern Barents Sea and St. Anna Trough	16:15
		Authors: Vidar S. Lien and Alexander G. Trofimov	
		Keywords: Barents Sea; St. Anna Trough; Atlantic Water; Dense water formation	
13)	L:09 Oral	Title: Variability of water properties, currents and fluxes in Nares Strait, connecting the Arctic to the Atlantic Ocean	16:30
		Authors: Berit Rabe, Andreas Münchow, Helen Louise Johnson, and Humfrey Melling	
		Keywords: Freshwater flux, Nares Strait, seawater pathway, variability in fluxes, ice state influence	
14)	L:10	Title: The Seasonal Variability of the East Greenland Coastal Current	16:45

	Oral	Authors: Abigail Marshall, N. Penny Holliday, Sheldon Bacon, Stephen Dye, and Yevgeny Askenov	
		Keywords: East Greenland, freshwater current, Arctic oceanography, seasonal variability	
15)	L:05 Oral	Title: The role of the Kolbeinsey Ridge and the Spar Fracture Zone in the circulation in the Iceland Sea	17:00
		Authors: Steingrímur Jónsson, Héðinn Valdimarsson, and Andreas Macrander	
		Keywords: Iceland Sea, Kolbeinsey Ridge, Spar Fracture Zone, circulation, currents	
16)	L:01 Oral	Title: The South Icelandic Current	17:15
		Authors: K. Logemann, J. Ólafsson, Á. Snorrason, and G. Marteinsdóttir	
		Keywords: Circulation, Atlantic Water, ocean modelling, AMOC	
17)	L:14 Oral	Title: OceanScope – Partnering with industry for the sustained and systematic observation of the oceans.	17:30
		Authors: Thomas Rossby, Charles Flagg, and Corinna Schrum	
		Keywords: OceanScope. Monitoring circulation, ocean physics, ocean chemistry, ocean biology	
		Discussion	17:45
		End of Session	18:00

Theme Session M
Identifying mechanisms linking physical climate and ecosystem change: Observed indices, hypothesized processes, and "data dreams" for the future
(co-sponsored by PICES)

Conveners: Emanuele Di Lorenzo, COVE-AP; USA, PICES, Arthur J. Miller, USA, PICES, and Marc Hufnagl, Germany, ICES

Agenda and Order of the Day

Monday 23 September 2013, 15:30–18:30, Norðurljós

- 1) Opening and introduction 15:30
- 2) Appointment of rapporteur
- 3) Presentation of papers

	CM Code		Time
1)	M:10 Oral	<p>Title: Large-scale climate forcing linked to phytoplankton biomass variability in the Northwest Atlantic</p> <hr/> <p>Authors: Vincent S. Saba, Kimberly Hyde, Jason Link, Jon Hare, Kevin Friedland, and Michael Fogarty</p> <hr/> <p>Keywords: large-scale climate forcing, phytoplankton biomass, Northwest Atlantic, U.S. Northeast Shelf, chlorophyll-a, satellite data, SeaWiFS, MODIS</p>	15:45
2)	M:06 Oral	<p>Title: Hydrographical and biological components of seascape shape mixed assemblages of a meroplankton community</p> <hr/> <p>Authors: M. Hidalgo <i>et al.</i></p> <hr/> <p>Keywords: Pelagic seascape, meroplankton community structure, oceanic fronts, ichthyoplankton, crustacean larvae, cephalopods paralarvae, Western Mediterranean</p>	16:00
3)	M:08 Oral	<p>Title: Environmental conditions during high recruitment years of Norwegian spring spawning herring (<i>Clupea harengus</i> L.)</p> <hr/> <p>Authors: Øystein Skagseth, Aril Slotte, and Erling Kåre Stenevik</p> <hr/> <p>Keywords: Norwegian spring spawning herring, <i>Clupea harengus</i> L., recruitment, environmental forcing</p>	16:15
4)	M:01 Oral	<p>Title: Recruitment to the northern stock of Pacific sardine (<i>Sardinops sagax</i>) in the California Current and its relationship to the Pacific Decadal Oscillation</p> <hr/> <p>Authors: Juan P. Zwolinski and David A. Demer</p> <hr/> <p>Keywords: condition factor, fecundity, spawning, prediction, environment</p>	16:30

5)	M:03 Oral	Title: Disentangling the effects of ocean transport, temperature and food concentration on the distribution of fish larvae	16:45
		Authors: Leif Chr. Stige <i>et al.</i>	
		Keywords: recruitment; fish larvae; statistical modelling; coupled biological-hydrodynamic modelling	
6)	M:07 Oral	Title: Silver hake tracks changes in Northwest Atlantic circulation	17:00
		Authors: Terrence M. Joyce, Young-Oh Kwon, Jason S. Link, and Larry Alade	
		Keywords: AMOC, decadal predictability, climate change, fish distribution, Gulf Stream	
7)	M:02 Oral	Title: Oxygen saturation and biochemical oxygen demand in the bottom waters of the Kola section as indicators of the Barents Sea trophicity (fish capacity)	17:15
		Authors: Oleg V. Titov, Sergey A. Ivanov, and Alexey A. Karsakov	
		Keywords: Barents Sea, oxygen saturation, biochemical oxygen demand	
8)	M:04 Oral	Title: The influence of climate and environmental forcing on ecosystem structure within Northeast Pacific marine ecosystems	17:30
		Authors: Matthew Baker, Anne Hollowed, and Trevor Branch	
		Keywords: community ecology, physical climate, climate change, random forests, dynamic factor analysis, multivariate autoregressive models	
9)	M:05 Oral	Title: Spatial ecosystem dynamics in a changing environment: overview from the Barents Sea	17:45
		Authors: Daniel Howell, Anatoly Filin, Elena Eriksen, and Bjarte Bogstad	
		Keywords: climate change, ecosystem, assessment	
10)	M:09 Oral	Title: A double integration hypothesis to explain ocean ecosystem response to climate forcing	18:00
		Authors: Emanuele di Lorenzo and Mark Ohman	
		Keywords: None	
		Start discussion	18:00
		End of session	18:30

Theme Session N

The pelagic fish complexes in the North Atlantic Ocean: Distribution, productivity, and inter-specific competition during changing climate

Conveners: Asta Gudmundsdottir, Iceland, David Miller, the Netherlands, and Geir Huse, Norway

Agenda and Order of the Day

Thursday 26 September 2013, 17:30–18:00, Norðurljós

Friday 27 September 2013, 09:00–10:30, 11:00–13:00, and 14:00–16:00, Norðurljós

- 1) Opening and introduction
- 2) Appointment of rapporteur
- 3) Presentation of papers

	CM Code		Time
1)	N:15 Oral	<p>Title: The ENAC model - A multispecies model incorporating interaction for pelagic fish species</p> <hr/> <p>Authors: Kjell Rong Utne, Dankert Skagen, Jens Christian Holst, Sondre Aanes, and Geir Huse</p> <hr/> <p>Keywords: Norwegian spring spawning herring, blue whiting, mackerel, species interactions, ecosystem based fisheries management, multispecies model, harvest control rules.</p>	17:30
2)	N:10 Oral	<p>Title: Ecosystem considerations in the assessment of northwest Atlantic herring: predatory consumption, time-varying natural mortality, and effects on management quantities</p> <hr/> <p>Authors: Jonathan J. Deroba</p> <hr/> <p>Keywords: Atlantic herring, ecosystem, stock assessment</p>	17:45
Friday 27 September 2013, 09:00–10:30, 11:00–13:00, and 14:00–16:00, Norðurljós			
3)	N:06 Oral	<p>Title: Tracking effects of climatic variation on interspecific competition and top down control using multidisciplinary datasets: Baltic Sea herring (<i>Clupea harengus</i>) and sprat (<i>Sprattus sprattus</i>) in the southern Baltic Sea</p> <hr/> <p>Authors: M. Bernreuther <i>et al.</i></p> <hr/> <p>Keywords: herring, sprat, competition, top-down control, climatic variation, Baltic Sea</p>	09:00
4)	N:09 Oral	<p>Title: Productivity of the Norwegian Spring Spawning herring stock: disentangling stock and environmentally related variations as a means to understanding climate change effects.</p> <hr/> <p>Authors: Richard D.M. Nash, Erling Kåre Stenevik, Geir Huse, and Aril Slotte</p>	09:15

		Keywords: Norwegian Spring spawning, herring, surplus production, productivity, Norwegian Sea, migration, spawning location	
5)	N:03 Oral	Title: Stock identification of herring in the North Atlantic based on otolith shape Authors: Lísá Anne Libungan, Guðmundur Jóhann Óskarsson, and Snæbjörn Pálsson Keywords: stock identification, otolith shape, mixed fisheries, herring stock identification, otolith shape, mixed fisheries, herring stock identification, otolith shape, mixed fisheries, herring	09:30
6)	N:14 Oral	Title: Genetic structure of Atlantic herring (<i>Clupea harengus</i> L.) in the Norwegian Sea and adjacent waters Authors: Sarah J. Helyar <i>et al.</i> Keywords: Herring, <i>Clupea harengus</i> , fisheries management, microsatellites, population structure.	09:45
7)	N:23 Poster	Title: Changes in pre-spawning herring (<i>Clupea harengus</i>) distribution in the Irish Celtic Sea from 2005–2012 Authors: Mareike Volkenandt, Ian O'Connor, Simon Berrow, and Ciaran O'Donnell Keywords: Celtic Sea, Herring, distribution, spawning grounds	10:00
8)	N:25 Poster	Title: Evaluation migrations of Baltic herring on the basis of parasitic infection and morphometric characteristics – implications for assessment and management of western and central stocks Authors: M. Podolska, J. Horbowy, and K. Nadolna Keywords: herring, migration, stock assessment, Baltic	10:05
9)	N:28 Poster	Title: Uncovering the biophysical forces shaping marine fish distributions Authors: Jed Macdonald, Þorsteinn Sigurðursson, Kai Logemann, and Guðrún Marteinsdóttir Keywords: Atlantic herring; correlative models; fish behaviour; ocean physics; distribution forecasts	10:10
10)	N:18 Oral	Title: Variability in summer distribution of juvenile albacore in the Northeast Atlantic: implications in terms of feeding success and top-down trophic impacts. Authors: Nicolas Goñi, Haritz Arrizabalaga, Igor Arregui, Igaratza Fraile, and Josu Santiago Keywords: North Atlantic, albacore, migration, distribution, feeding success, trophic impacts	10:15
		Coffee break	10:30

11)	N:13 Oral	Title: Changes in abundance, distribution and migration patterns of Northeast Atlantic mackerel during summers 2007–2013	11:00
		Authors: Leif Nøttestad <i>et al.</i>	
		Keywords: NEA mackerel, Nordic Seas, feeding, geographical expansion, length-dependent migration, new distribution pattern, temperature effect	
12)	N:05 Oral	Title: Schooling dynamics of Northeast Atlantic mackerel (<i>Scomber scombrus</i>) during summer in the Norwegian Sea using multibeam sonar	11:15
		Authors: Justine Diaz, Hector Pena, Leif Nøttestad, Geir Huse, and Anders Fernö	
		Keywords: schooling, NEA mackerel, Norwegian Sea, behaviour, multibeam sonar	
13)	N:16 Oral	Title: Recent occurrence of juvenile Atlantic mackerel (<i>Scomber scombrus</i>) in Icelandic waters	11:30
		Authors: Björn Gunnarsson, Jónas P. Jónasson, Kai Logeman, and Guðmundur J. Óskarsson	
		Keywords: Iceland, <i>Scomber scombrus</i> , juvenile otolith, distribution, hatching day, nursery area	
14)	N:01 Oral	Title: Journey of the Atlantic Mackerel into Icelandic waters: Can genetics tell us about its origin?	11:45
		Authors: Christophe Pampoulie <i>et al.</i>	
		Keywords: Genetic, Atlantic Mackerel, microsatellite loci, Icelandic waters, migration, invasion, climate change	
15)	N:27 Poster	Title: Spawning migration change in the southern component of the Northeast Atlantic Mackerel (<i>Scomber scombrus</i>)	12:00
		Authors: A. Punzón, B. Villamor, P. Carrera, and R. Gonzalez-Quirós	
		Keywords: Mackerel, migration, southern component	
16)	N:21 Poster	Title: Ecological impact of NE-Atlantic mackerel (<i>Scomber scombrus</i>) in Icelandic waters; a multidisciplinary diet analysis.	12:05
		Authors: Cecilia E. K. Kvaavik, Guðmundur J. Óskarsson, Sarah Helyar, Jonathan Grabowski, and Guðrún Marteinsdóttir	
		Keywords: Gut content, consumption, stable isotopes, RT PCR, DNA barcoding, ecological impacts, mackerel <i>Scomber scombrus</i>	
17)	N:24 Poster	Title: Comparative impacts of temperature on egg ecology of pelagic fish species in the north Atlantic	12:10
		Authors: Stavroula Tsoukali, André W. Visser, and Brian R. Mackenzie	
		Keywords: small pelagic fish, eggs, life history traits, temperature effects, north Atlantic	

18)	N:02 Oral	Title: The spawning migration of capelin (<i>Mallotus villosus</i>) in Icelandic waters. Authors: Anna H. Olafsdottir and George A. Rose Keywords: capelin, <i>Mallotus villosus</i> , spawning migration, staging, cue mechanism, temperature, predation, gonad maturity	12:15
19)	N:08 Oral	Title: Recent changes in migration and distribution of capelin in the Iceland-East Greenland-Jan Mayen area and their effect on managing fisheries from the stock in a changing environment. Authors: A. Gudmundsdottir, Th. Sigurdsson, S. Sveinbjörnsson, and S.P. Jónsson Keywords: capelin, Iceland, distribution, migrations, management, surveys, environment	12:30
20)	N:26 Poster	Title: Inter-annual Variation in Fat Content of the Icelandic Capelin (<i>Mallotus villosus</i>) Authors: Viðar Engilbertsson, Guðmundur J. Óskarsson, and Guðrún Marteinsdóttir Keywords: Capelin, <i>Mallotus villosus</i> , fat content, energetic condition, feeding migration, soxhlet, environmental variables.	12:45
21)	N:22 Poster	Title: Experimental jigging with light attraction on European flying squid (<i>Todarodes sagittatus</i>) in Icelandic waters and some notes on earlier trawl-fishing trials on the species Authors: Einar Jónsson and Ólafur Arnar Ingólfsson Keywords: <i>Todarodes sagittatus</i> , squid	12:50
22)	N:29 Poster	Title: Ageing, growth and origin of marine caught salmon (<i>Salmo Salar</i>) in Icelandic waters Authors: Kristinn Olafsson <i>et al.</i> Keywords: Atlantic salmon, pelagic complex, individual assignment, GRASSP, age determination	12:55
Lunch break			13:00
23)	N:19 Oral	Title: Northeast Atlantic blue whiting population dynamics and its relation to oceanographic and environmental parameters Authors: Sven Gastauer <i>et al.</i> Keywords: blue whiting, climate, pelagic fisheries, recruitment, sub-polar gyre	14:00
24)	N:04 Oral	Title: Diet and trophic relations of blue whiting in the North-eastern Atlantic Authors: Andrey V. Dolgov and Irina P.Prokopchuk Keywords: blue whiting, diet, feeding, Barents Sea, Norwegian Sea, British Isles, trophic relations	14:15

25)	N:07 Oral	<p>Title: A detailed characterisation the spawning distribution of Blue Whiting</p> <p>Authors: Fabien Pointin and Mark R. Payne</p> <p>Keywords: Blue Whiting; Continuous Plankton Recorder (CPR); larvae; spawning; sub-polar gyre</p>	14:30
26)	N:20 Oral	<p>Title: The distribution and behaviour of mesopelagic fish West of the British Isles</p> <p>Authors: S. Gastauer, M. Schaber, S. Fässler, E. J. Armstrong, J. Freijser, J. Keating, and J. Brandhof.</p> <p>Keywords: mesopelagics, ecosystem, behaviour, distribution, vertical migration</p>	14:45
27)	N:17 Oral	<p>Title: Rise of the boarfish: recent boom, range expansion or influx from the deep?</p> <p>Authors: Edward D. Farrell <i>et al.</i></p> <p>Keywords: boarfish, distribution, northeast Atlantic, recruitment</p>	15:00
28)	N:12 Oral	<p>Title: A behavioural fish movement approach within an anchovy IBM model to study fish migration patterns in the Bay of Biscay</p> <p>Authors: Dimitrios Politikos, Martin Huret, and Pierre Petitgas</p> <p>Keywords: anchovy, movement, individual-based model, dynamic environment</p>	15:15
		General discussion	15:30
		End of session	16:00

Theme Session O
Advances in studying spatial distribution

Conveners: Hoskuldur Bjornsson, Iceland, Sigurður Jonsson, Iceland, and
Sara Iverson, Canada

Agenda and Order of the Day

Friday 27 September 2013, 09:00–10:30, 11:00–13:00, 14:00–16:00, Kaldalón

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|----|---------------------------|-------|
| 1) | Opening and introduction | 09:00 |
| 2) | Appointment of rapporteur | |
| 3) | Presentation of papers | |

	CM Code		Time
1)	O:12 Oral	<p>Title: The Ocean Tracking Network (OTN) Canada: a template for developing other integrated research networks within the global OTN</p> <hr/> <p>Authors: Sara J. Iverson</p> <hr/> <p>Keywords: Ocean Tracking Network, acoustic and electronic tracking, ocean ecosystems, animal movement, data analysis and visualization</p>	09:00
2)	O:11 Oral	<p>Title: Piscivore meets pisces: interactions between grey seals and fish on the Eastern Scotian Shelf and southern Gulf of St. Lawrence.</p> <hr/> <p>Authors: D.C. Lidgard, W. D. Bowen, I. D. Jonsen, and S. J. Iverson</p> <hr/> <p>Keywords: marine mammal, grey seal, Atlantic Canada, acoustic technology, species interactions, fish, spatial distribution</p>	09:30
3)	O:16 Oral	<p>Title: Distribution of juvenile bluefin tunas in the North Atlantic: comparison between light-based geolocations from internal and pop-up satellite archival tags.</p> <hr/> <p>Authors: Igor Arregui <i>et al.</i></p> <hr/> <p>Keywords: North Atlantic, bluefin tuna, pop-up tags, internal archival tags, distribution, geolocation, migrations</p>	09:45
4)	O:17 Oral	<p>Title: Atlantic cod (<i>Gadus morhua</i>) migration study with pop-up satellite tags (PSATs) 2012</p> <hr/> <p>Authors: Jóhannes Sturlaugsson, Erlendur Geirdal, and Guðmundur Geirdal</p> <hr/> <p>Keywords: Atlantic cod migration predation PSATs</p>	10:00
		Discussion	10:15
		Coffee break	10:30

5)	O:03 Oral	Title: Residency and diurnal habitat use of Atlantic cod (<i>Gadus morhua</i>) at an offshore wind farm using acoustic telemetry	11:00
		Authors: Jan Reubens, Steven Degraer, and Magda Vincx	
		Keywords: demersal fish, windmill artificial reefs, acoustic telemetry, Belgian part of the North Sea	
6)	O:05 Oral	Title: Understanding the spatial dynamics of European sea bass: new insights on seasonal migration patterns from electronic tagging off the coast of west Brittany	11:15
		Authors: H��l��ne de Pontual, Tran-Thanh NGO, Maxime Lalire, Pascal Lazure, Fran��ois Garren, Micka��l Drogou, and Ronan Fablet	
		Keywords: acoustic telemetry, archival tagging, European sea bass, migration, population structure, stock identification, Hidden Markov Model	
7)	O:07 Oral	Title: Movements of Atlantic cod spawning in the western Gulf of Maine	11:30
		Authors: Douglas Zemeckis, Micah Dean, William Hoffman, Michael P. Armstrong, and Steven X. Cadrin	
		Keywords: Atlantic cod, acoustic telemetry, spawning, population structure, Gulf of Maine	
8)	O:18 Oral	Title: Movements and migration behaviour of common wolffish (<i>Anarhichas lupus</i>)	11:45
		Authors: J��hannes Sturlaugsson, Erlendur Geirdal, and Gu��mundur Geirdal	
		Keywords: Wolffish Movements migration Anarhichas lupus	
9)	O:02 Oral	Title: Using electronic tags to estimate tagging mortality of fishes to improve the accuracy of mark and recapture models of abundance	12:00
		Authors: M. J. W Stokesbury, J. W. Beardsall, M. F. McLean, and M. J. Dadswell	
		Keywords: Tagging mortality, catch and release, mark and recapture, survival, fish	
10)	O:14 Oral	Title: Detection Efficiency of Vemco Mobile Transceivers Deployed on Grey Seals (<i>Halichoerus grypus</i>) on the Scotian Shelf	12:15
		Authors: L L Baker, I. D. Jonsen, J. A. Mills Flemming, D. C. Lidgard, and S. J. Iverson	
		Keywords: VMT, telemetry, tag performance, grey seal (<i>Halichoerus grypus</i>)	
11)	O:15 Oral	Title: A state-space model for estimating detailed movements and home range from acoustic receiver data	12:30
		Authors: M. W. Pedersen and K. Weng	
		Keywords: detection function, acoustic telemetry, Ornstein-Uhlenbeck process, acoustic array design	
		Discussion	12:45
		Lunch break	13:00

12)	O:04 Oral	Title: Fishing out collective memory of migratory schools Authors: Giancarlo De Luca Patrizio Mariani Brian R. MacKenzie, and Matteo Marsili Keywords: collective intelligence, network dynamics, schooling, bluefin tuna	14:00
13)	O:01 Oral	Title: The role of acoustic telemetry in stock identification Authors: Greg DeCelles and Douglas Zemeckis Keywords: acoustic telemetry, radio telemetry, stock identification, multidisciplinary, stock structure	14:15
14)	O:06 Oral	Title: Where do they come from? Spatial distributions and ontogenetic movements of goliath grouper (<i>Epinephelus itajara</i>) in the state of Florida Authors: Orian E Tzadik, Christopher D Stallings, David L Jones, and David J Hollander Keywords: Fin ray microchemistry, goliath grouper, spatial distributions, nursery habitat	14:30
15)	O:09 Oral	Title: Insights into mixing and movement of albacore <i>Thunnus alalunga</i> derived from trace elements in otoliths Authors: Jed Macdonald, Jessica Farley, Naomi Clear, Ashley Williams, Thor Carter, Campbell Davies, and Simon Nicol Keywords: mobility; migration; ocean fronts; otolith chemistry; tuna	14:45
16)	O:10 Oral	Title: Seasonal offshore-onshore migration and distribution of anglerfish <i>Lophius piscatorius</i> in Faroese waters Authors: Lise H. Ofstad, Petur Steingrund, and Torstein Pedersen Keywords: activity; anglerfish; data storage tag; Faroe Islands; <i>Lophius</i> ; mark-recapture; migration	15:00
17)	O:13 Oral	Title: Let's do it again: Closing the book on a pilot in situ redfish tagging experiment with Underwater Tagging Equipment Authors: Kristján Kristinsson, Sigurður Þór Jónsson, Höskuldur Björnsson, and Þorsteinn Sigurðsson Keywords: <i>Sebastes mentella</i> , tagging, underwater tagging equipment	15:15
		Presentation of posters (approx 2 minutes per poster)	15:30
		Discussion	15:45
		Closing of session	16:00

Posters

O:08 **Title:** Migratory and spawning behavior of lumpfish, *Cyclopterus lumpus*, as
Poster determined by temperature and depth recording data-storage tags

Authors: Jacob M. Kasper *et al.*

Keywords: lumpfish, DST, behavior, migration, Iceland

O:19 **Title:** Local spatial structure in a temperate groundfish assemblage: the spatial
Poster memory of fishing.

Authors: Samuel Shephard, Francisco de Castro, Sarah B. M. Kraak, David G. Reid, and Keith Farnsworth

Keywords: Celtic Sea; Size structure; Migration; Demersal fish; Population structure

O:21 **Title:** Gluing broken otoliths and its effect on morphology analysis
Poster

Authors: Hlynur Bárðarson and Guðrún Marteinsdóttir

Keywords: Otolith morphology, broken otoliths, gluing effects, *Discriminant Analysis*

O:23 **Title:** Tagging and migrations of Atlantic wolffish
Poster

Authors: Ásgeir Gunnarsson, Vilhjálmur Þorsteinsson, Sigmar Guðbjörnsson, and Christophe S Pampoulie

Keywords: migration, tagging, Atlantic wolffish

O:24 **Title:** Clustering methods for assigning community types, spatial distributions,
Poster and habitat associations to multispecies benthic fish communities on the West Florida Shelf, eastern Gulf of Mexico

Authors: Joshua P. Kilborn, David L. Jones, and Ernst B. Peebles

Keywords: indicator based clustering, species indicators, indval, multivariate analysis, minimum spanning tree, groundfish trawl survey, Gulf of Mexico

O:25 **Title:** Atlas of Icelandic cod spawning sites
Poster

Authors: William Butler, Lorna Taylor, Jón Sólmundsson, and Guðrún Marteinsdóttir

Keywords: cod, *Gadus morhua*, Icelandic waters, logbook data, spawning grounds

Theme Session P
An integrated approach to research surveys: monitoring with a combination of sensors

Conveners: Nils Olav Handegard, Norway, David Somerton, USA, and Pierre Petitgas, France

Agenda and Order of the Day

Thursday 26 September 2013, 11:30–13:00, 14:00–15:30, and 16:00–17:30, Silfurberg A

- 1) Opening and introduction 11:30
- 2) Appointment of rapporteur
- 3) Presentation of papers

Subsession on fish

Code	Time
1) P:01 Oral	11:35
Title: Combining bottom trawl and acoustic data to estimate density dependent bottom trawl efficiency.	
Authors: David Somerton, Stan Kotwicki, James N. Ianelli, and André E. Punt	
Keywords: acoustic-trawl survey, bottom trawl survey, abundance indices, combining bottom trawl and acoustics	
2) P:02 Oral	11:55
Title: The US West Coast rockfish issue: joining current bottom trawl estimates of abundance to acoustic and optical estimates made in untrawlable habitat	
Authors: David Somerton	
Keywords: untrawlable habitat, rockfish, multigear bottom surveys	
3) P:06 Oral	12:15
Title: Standardized swept area pelagic trawling with Mulpelt 832 as a method to estimate the abundance of the Northeast Atlantic mackerel stock – trawl design, rigging and operation protocol	
Authors: John Willy Valdemarsen, Jan Arge Jacobsen, Gudmundur J. Óskarsson, Kjell R. Utne, Haraldur Einarsson, Sveinn Sveinbjörnsson, Leon Smith, and Kristian Zach	
Keywords: swept area, pelagic trawling, Mulpelt 832, abundance estimation, assessment	
4) P:14 Oral	12:35
Title: Using long-term passive acoustics to monitor the Atlantic cod (<i>Gadus morhua</i>) in Icelandic waters	
Authors: Edda E. Magnúsdóttir, Stéphanie Céline Michl, Marianne H. Rasmussen, Marc O. Lammers and Jörundur Svavarsson	
Keywords: Atlantic cod, <i>Gadus morhua</i> , Iceland, Passive acoustic monitoring	

Subsession discussion			12:55
End of part 1			13:00
Lunch break			13:00
5)	P:04 Oral	Title: Using fishers' echo-sounder buoys. A behavioral approach to improve the remote characterization of fish aggregations around fish aggregating devices (FADs) Authors: Jon Lopez, Gala Moreno, Guillermo Boyra, and Laurent Dagorn Keywords: drifting FADs, EBFM, echo-sounder buoy, by-catch, tropical tuna, biomass estimates	14:00
Subsession on zooplankton			
6)	P:05 Oral	Title: Can the standard IBTS-MIK survey provide reliable data on herring recruitment and spawning locations? Authors: C.J.G. van Damme, C. Bakker, H. Höffle, and R.D.M. Nash Keywords: Clupea harengus, ichthyoplankton, Gulf VII, MIK, MIKey-M	14:20
7)	P:07 Oral	Title: Acoustic detection of zooplankton during fishery surveys and sensitivity of acoustic backscatter prediction models to parameters estimates Authors: Margarita Machairopoulou, David Lusseau, and Jens Rasmussen Keywords: acoustic surveys, zooplankton, model, prediction, parameters, sensitivity	14:40
8)	P:08 Oral	Title: Combining process studies with ecosystem surveys using the high speed towed multi-sensor vehicle TRIAXUS Authors: Jens Floeter, Dominik Gloe, Klas Möller, André Eckhardt, Jörg Bruhn, and Christian Möllmann Keywords: towed vehicle, monitoring, process studies, spatial scales	15:00
9)	P:10 Poster	Title: Multi-Sensor Studies of Euphausiid-Fish Interactions in the Gulf of Maine Authors: Gareth L. Lawson, Andone C. Lavery, Peter H. Wiebe, J. Michael Jech, and Nancy J. Copley Keywords: multi-sensor, acoustic, euphausiid	15:20
Subsession discussion			15:25
End of part 2			15:30
Coffee break			15:30

10)	P:09 Oral	Title: Combination of CUFES and acoustics to increase reliability of survey estimates	16:00
		Authors: Pierre Petitgas, Martin Huret, Paul Gatti, Paul Bourriau, and Jacques Massé	
		Keywords: CUFES, acoustics, survey bias, daily fecundity, anchovy, Biscay	
Subsession on ecology			
11)	P:11 Oral	Title: Integration of trawl and acoustic sampling for improvement of the Baltic cod assessments based on bottom trawl surveys	16:20
		Authors: Kasatkina S.M., Gasyukov P.S., and Malyshko A.P.	
		Keywords: acoustic and trawl sampling, Baltic Sea, bottom trawl surveys, cod, different types of standard trawl	
12)	P:13 Oral	Title: Integrated analyses of Northwest Atlantic pelagic ecosystem structure across a strong thermal front spanning the Grand Bank and Flemish Cap	16:40
		Authors: Dominique Robert, Jonathan A. D. Fisher, George A. Rose, and Pierre Pepin	
		Keywords: detection probability, ecosystem structure, multi-frequency fisheries acoustics, long-term monitoring, zooplankton	
13)	P:17 Poster	Title: Jumbo squid (<i>Dosidicus gigas</i>) landings and distribution in the Gulf of California related to remotely sensed SST and concentrations of chlorophyll a (1998-2012)	17:00
		Authors: Carlos J. Robinson, Jaime Gómez-Gutiérrez, and David Alberto Salas-De León	
		Keywords: <i>Dosidicus gigas</i> ; Remote sensing; Hydroacoustics; Gulf of California	
Subsession discussion			17:05
14)	P:15 Poster	Title: A new design of multi-mesh survey gillnets to sample fish community in the Adriatic Sea	17:10
		Authors: Polona Pengal	
		Keywords: gillnets, fish community, fish culture	
15)	P:18 Poster	Title: Detecting presence-absence of bluefin tuna by automated analysis of long-range sonar signals for fishing vessels	17:15
		Authors: Jon Uranga, Haritz Harrizabalaga, Guillermo Boyra, Maria Carmen Hernandez, Nicolas Goñi, Igor Arregi	
		Keywords: Sonar image analysis, Supervised classification, Tuna-abundance estimation.	
General discussion			17:20
End of session			17:30

Theme Session Q
Advantages of Bayesian analysis for fisheries and ecological research

Conveners: Murdoch McAllister, Canada, Allan Tucker, UK, and Sakari Kuikka, Finland

Agenda and Order of the Day

Wednesday 25 September 2013, 10:00–13:00, Kaldalón

Thursday 26 September 2013, 08:30–10:00, 10:30–12:00, Kaldalón

- 1) Opening and introduction
- 2) Appointment of rapporteur
- 3) Presentation of papers

	CM Cdoe	Time
1)	<p>Q:12 Title: Addressing uncertainty in a multi-species size-based model of fish community responses to fishing: implications for scientific advice and decision-making</p> <hr/> <p>Authors: Robert B. Thorpe, Will F. Le Quesne, Fay Luxford, and Simon Jennings</p> <hr/> <p>Keywords: : uncertainty analysis, risk, fish community model, North Sea</p>	10:00
2)	<p>Q:06 Title: Modelling the dynamics of carbonate budgets using a Bayesian Belief Network approach</p> <hr/> <p>Authors: Chiara Franco, David J. Smith, Stephen Nimrod, Leanne J Hepburn, and Allan Tucker</p> <hr/> <p>Keywords: Bayesian Belief Networks, coral reefs, calcium carbonate balance, reef framework, anthropogenic impacts, climate change, management</p>	10:15
3)	<p>Q:07 Title: The application of statistical metrics into predictive functional Bayesian models of fisheries ecology</p> <hr/> <p>Authors: Neda Ivova Trifonova</p> <hr/> <p>Keywords: dynamic Bayesian networks, fisheries, biomass predictions, metrics</p>	10:30
4)	<p>Q:05 Title: A bayesian analysis embedding anchovy dynamics in the environment</p> <hr/> <p>Authors: Margarita María Rincón, Javier Ruiz, and Ignacio Catalán</p> <hr/> <p>Keywords: Anchovy recruitment, Gulf of Cádiz, time resolution, bayesian modelling, length frequency estimates</p>	10:45

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- 5) Q:04 Oral **Title:** Demographic response of Atlantic salmon populations to multiple stressors: a Bayesian hierarchical modelling approach at broad ocean scale 11:00
-
- Authors:** Félix Massiot-Granier, Etienne Prevost, Gérald Chaput, Gordon Smith, Jonathan White, Ted Potter, and Etienne Rivot
-
- Keywords:** Atlantic salmon, Bayesian Hierarchical Model, life cycle, scale, climate change
-
- 6) Q:03 Oral **Title:** Hierarchical Bayesian Models: A framework for addressing issues of nested scales in integrated life cycle models for exploited fish populations 11:15
-
- Authors:** Etienne Rivot, Félix Massiot-Granier, Benoît Archambault, Sébastien Rochette, Etienne Prevost, and Olivier Le Pape
-
- Keywords:** hierarchical bayesian models, integrated life cycle, nested scales, salmon, sole
-
- 7) Q:19 Oral **Title:** Using Bayesian analysis to improve models of in-season estimates of salmon run size and timing 11:30
-
- Authors:** Mike Hawkshaw
-
- Keywords:** Bayesian, modeling, salmon, probability, harvest, in-season
-
- 8) Q:01 Oral **Title:** Supervised pre-processing approaches in multiple class variables classification for fish recruitment forecasting 11:45
-
- Authors:** J. A. Fernandes, J. A. Lozano, I. Inza, X. Irigoien, J. D. Rodríguez, and A. Pérez
-
- Keywords:** Supervised classification, multi-dimensional classification, Bayesian networks, missing imputation, discretization, feature subset selection, environmental modelling, recruitment forecasting
-
- 9) Q:10 Oral **Title:** Valuing the ability to predict anchovy recruitment based on environmental data 12:00
-
- Authors:** Polina Levontin, Margarita María Rincón, Adrian Leach, Javier Ruiz, and John Mumford
-
- Keywords:** value of information, Bayesian analysis; *Engraulis encrasicolus*; recruitment; environment; Gulf of Cadiz.
-
- 10) Q:02 Oral **Title:** Biological knowledge in fisheries stock assessment 12:15
-
- Authors:** Anna Kuparinen, Samu Mäntyniemi, Jeffrey A. Hutchings, and Sakari Kuikka
-
- Keywords:** Bayesian statistics, ecology, evolution, life-histories, stock assessment
-
- 11) Q:16 Oral **Title:** General population dynamics model for Bayesian stock assessment 12:30
-
- Authors:** Samu Mäntyniemi *et al.*
-
- Keywords:** stock assessment, uncertainty, Marko chain Monte Carlo, effective population size, Dirichlet-Multinomial distribution
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Discussion	12:45
Lunch break	13:00

Thursday 26 September 2013, 08:30–10:00, 10:30–12:00, Kaldalón

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| 12) | Q:09
Oral | Title: A Bayesian state-space model of Bothnian Sea herring using data from the Baltic International Acoustic Survey (BIAS) | 08:30 |
| | | Authors: Henni Pulkkinen, Anna Gårdmark, Olavi Kaljuste, Andreas Bryhn, and Samu Mäntyniemi | |
| | | Keywords: Bayesian models, acoustic survey, herring | |
| 13) | Q:15
Oral | Title: Information use in stock assessments – a Bayesian state-space assessment model for herring (<i>Clupea harengus</i>) in northern Baltic Sea | 08:45 |
| | | Authors: Gardmark <i>et al.</i> | |
| | | Keywords: herring; Bothnian Sea; stock assessment; Bayesian modelling | |
| 14) | Q:18
Oral | Title: Bayesian hierarchical surplus production model of whelk (<i>Buccinum undatum</i>) in Icelandic waters. | 09:00 |
| | | Authors: Jónas P. Jónasson and Pamela Woods | |
| | | Keywords: Bayesian, hierarchical, surplus model, whelk, fisheries | |
| 15) | Q:11
Oral | Title: A bayesian model for European hake with priors based on life history invariants | 09:15 |
| | | Authors: Santiago Cerviño, Margarita María Rincón, Samu Mäntyniemi, José Castro, and Javier Ruiz | |
| | | Keywords: Bayesian assessment models, priors, life history, hake | |
| 16) | Q:20
Oral | Title: Uncertainty in age-structured stock assessment of Icelandic saithe: Effect of different assumptions, methods, and excluding data components | 09:30 |
| | | Authors: Arni Magnusson | |
| | | Keywords: Icelandic saithe, stock assessment, informative data, uncertainty | |
| | | Coffee break | 10:00 |
| 17) | Q:17
Oral | Title: Quality in Bayesian analyses is sensitive to exchangeability | 10:30 |
| | | Authors: Ullrika Sahlin | |
| | | Keywords: state-space modelling, uncertainty, extrapolation, decision making, clupeid reduction | |
| 18) | Q:08
Oral | Title: Developing tools to facilitate expert and stakeholder inputs into modelling and strategic planning | 10:45 |
| | | Authors: Adrian Leach, Polina Levontin, John Holt, and John Mumford | |

		Keywords: elicitation; uncertainty; visualization; consensus; governance	
19)	Q:13 Oral	Title: Multi-disciplinary Lego-bricks: building an integrative metamodel for policy analysis by using Bayesian Networks	11:00
		Authors: Annukka Lehtikoinen, Maria Hänninen, Jenni Storgård, Samu Mäntyniemi, and Sakari Kuikka	
		Keywords: Bayesian networks, metamodels, decision analysis, oil transport, ecosystem risk, Gulf of Finland	
Poster presentations (1 minute per poster)			11:15
20)	Q:25 Poster	Title: A retrospective analysis of relationships between days fished and landings of Dungeness Crab in British Columbia.	
		Authors: Aaron Greenberg	
		Keywords: Bayesian Surplus Production State-Space Crab	
21)	Q:22 Poster	Title: Using state-space modelling framework in data-limited fisheries: the case of Patagonian Toothfish in Chile	
		Authors: JC Quiroz and Rodrigo Wiff	
		Keywords: state-space modelling, production, bayesian, toothfish, Chile	
22)	Q:24 Poster	Title: The use of model averaging to streamline the stock assessment process	
		Authors: Colin P. Millar; Ernesto Jardim; Finlay Scott; Iago Mosqueira; Richard Hillary; and Ruth King	
		Keywords: Bayesian model averaging, stock assessment, stochastic forecasts	
23)	Q:23 Poster	Title: A Bayesian network for evaluation of setting and reaching the targets of the Water Framework Directive	
		Authors: J. A. Fernandes, P. Kauppila, L. Uusitalo, V. Fleming, S. Kuikka, and H. Pitkänen	
		Keywords: Bayesian networks, data representation, Water Framework Directive, water quality, probabilistic models, uncertainty	
Discussion			11:19
End of session			12:00

Theme Session R
Marine recreational fisheries: understanding impacts and consequences for management

Conveners: Harry V. Strehlow, Germany and Kieran Hyder, UK

Agenda and Order of the Day

Wednesday 25 September 2013, 12:30–13:00, Silfurberg A
 Thursday 26 September 2013, 08:30–10:00, 10:30–11:30, Silfurberg A

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| 1) | Opening and introduction | 12:30 |
| 2) | Appointment of rapporteur | |
| 3) | Presentation of papers | |

	CM Code		Time
1)	R:03 Oral	Title: Spatial variation of recreational and commercial catches of western Baltic cod Authors: Margit Eero and Harry V. Strehlow Keywords: assessment, catchability, <i>Gadus morhua</i> L., exploitation patterns, spatial variation, recreational fishing, western Baltic cod	12:45

Thursday 26 September 2013, 08:30–10:00, 10:30–11:30, Silfurberg A

2)	R:04 Oral	Title: A new design for the access point angler intercept survey in the US – From pilot study to coastwide implementation Authors: David A. Van Voorhees <i>et al.</i> Keywords: access point survey, catch estimation, sampling design, recreational fishing	08:30
3)	R:05 Oral	Title: Estimating catches and releases by recreational sea anglers in England – an evaluation of the roving-creel approach Authors: Mike Armstrong and Kieran Hyder Keywords: recreational fishery surveys, roving creel surveys, survey design	08:45
4)	R:17 Oral	Title: Harvest pressure on coastal Atlantic cod from recreational fishing relative to commercial fishing assessed from tag-recovery data Authors: Kleiven, AR; Nordahl, J-H; Moland, E; Espeland, SH; Knutsen, H; Olsen, EM Keywords: Recreational fishing, capture-mark-recapture, <i>Gadus morhua</i> , Fishing mortality, Skagerrak	09:00

5)	R:06 Oral	Title: Long-term trauma? Studying the effects of catch-and-release on Atlantic cod behavior using acoustic telemetry	09:15
		Authors: Keno Ferter, Alf Ring Kleiven, Klaas Hartmann, Even Moland, and Esben Moland Olsen	
		Keywords: Angling, acoustic tagging, <i>Gadus morhua</i> , post-release mortality, recreational fishing, sub-lethal effects	
6)	R:16 Oral	Title: Dead or alive – estimating post-release mortality of Atlantic cod in the recreational fishery	09:30
		Authors: Marc Simon Weltersbach and Harry V. Strehlow	
		Keywords: angling, catch-and-release, <i>Gadus morhua</i> L., hooking mortality, post-release survival, sustainable recreational fishing, western Baltic cod	
7)	R:07 Oral	Title: Reconsidering the role of fishers in recreational fisheries management: The case of the blue cod fishery in Marlborough, New Zealand	09:45
		Authors: Alyssa Thomas, Taciano Milfont, and Michael Gavin	
		Keywords: co-management, fishers' knowledge, New Zealand, recreational fisheries	
		Coffee break	10:00
8)	R:08 Oral	Title: Economic valuation of commercial and recreational fisheries – a framework and implications for management	10:30
		Authors: Gordon Gislason	
		Keywords: allocation, catch monitoring, impact, intangible values, value	
9)	R:09 Poster	Title: Comparing different survey methods to estimate sea bass recreational catches in the Basque Country	10:45
		Authors: L. Zarauz, J. Ruiz, E. Andonegi, A. Urtizberea, E. Mugerza, and I. Artetxe	
		Keywords: method comparison, recreational fisheries, sea bass, survey	
10)	R:10 Poster	Title: Estimation of fishing mortality caused by a recreational fishery: the case of European squid	10:50
		Authors: Miguel Cabanellas-Reboredo, Pep Alós, Miquel Palmer, and Beatriz Morales-Nin	
		Keywords: anglers typology, Mediterranean, recreational fisheries	
11)	R:11 Poster	Title: Catches in sea angling tournaments around Iceland	10:55
		Authors: Hlynur Armannsson	
		Keywords: cod, haddock, Icelandic waters, sea angling, stock assessment	
12)	R:12 Poster	Title: How good are methods to estimate catches by recreational sea anglers? The English experience.	11:00
		Authors: Kieran Hyder and Mike Armstrong	

		Keywords: fisheries management, recreational sea angling, survey design	
13)	R:13 Poster	Title: Recent modifications of ecological processes in the West coast of the Northern Adriatic Sea and interactions with the recreational fishery	11:05
		Authors: Fabio Pranovi, Marco Anelli Monti, Paolo Valeri, and Alberto Caccin	
		Keywords: coastal area, nekton assemblage, Northern Adriatic Sea, recreational fishery	
14)	R:14 Poster	Title: Evaluating the French sea bass recreational catches using a panel of volunteers	11:10
		Authors: Delphine Rocklin, Harold Levrel, Mickaël Drogou, Johanna Herfaut, and Gérard Véron	
		Keywords: catch-and-release, catches, cpue, <i>Dicentrarchus labrax</i> , telephone survey, panel, recreational fisheries	
15)	R:15 Poster	Title: Towards fishery-independent monitoring of coastal recreational fisheries: an automated system to explore spatial distribution and movement of anglers	11:15
		Authors: Josep Alós, Beatriz Morales-Nin, Miguel Cabanellas-Reboredo, Margarita Cerdà, and Miquel Palmer	
		Keywords: anglers, fine-scale spatial behaviour	
		Discussion	11:20
		End of session	11:30