

## List of accepted titles to the 2009 ASC

The presentations will not always be made in this order in the programme.

### Theme Session A

#### Biochemical, biogeochemical, and molecular approaches to the study of plankton ecology and species diversity

Conveners: Steve Hay (UK), Janna Peters (Germany), and Ann Bucklin (USA)

#### Papers/Oral presentations

Code	Author(s) and title
A:01	<b>Authors:</b> Leocadio Blanco Bercial, Lisa M. Nigro, and Ann Bucklin <b>Title:</b> How many genes? Optimizing the molecular phylogeny of calanoid copepods
A:02	<b>Withdrawn</b>
A:03	<b>Authors:</b> Ebru Unal, Petra Lenz, David Towle, and Ann Bucklin <b>Title:</b> Gene expression patterns of the copepod <i>Calanus finmarchicus</i> in the Gulf of Maine (Northwest Atlantic Ocean)
A:04	<b>Withdrawn</b>
A:05	<b>Authors:</b> Ann Bucklin, Leocadio Blanco Bercial, Brian D. Ortman, Lisa M. Nigro, and Nancy J. Copley <b>Title:</b> DNA barcoding of North Atlantic zooplankton: applications for rapid analysis of marine diversity and ecosystem function
A:06	<b>Authors:</b> Katja Metfies, Sonja Diercks, Thomas Hanken, Wilhelm Petersen, and Friedhelm Schröder <b>Title:</b> Molecular Sensors and the FerryBox-System – Keys to High Resolution Monitoring of Marine Phytoplankton
A:07	<b>Authors:</b> Gesche Winkler <b>Title:</b> Secondary contact of two sibling species of <i>Eurytemora affinis</i> : distribution, diversity and trophic role in the St. Lawrence estuarine transition zone
A:08	<b>Authors:</b> Hildur Petursdottir and Astthor Gislason <b>Title:</b> Trophic interactions and energy flow within the pelagic ecosystem in the Iceland Sea
A:09	<b>Authors:</b> Thea Linke, Janna Peters, Luke Twomey, Mike StJohn, and Ian Potter <b>Title:</b> Trophic interactions in two estuaries with differing hydrological regimes in south-western Australia
A:10	<b>Authors:</b> Silke Laakmann, Marc Kochzius, and Holger Auel <b>Title:</b> Co-existence in the pelagic deep sea: mechanisms of spatial and trophic niche separation
A:11	<b>Authors:</b> Lutz Postel, Javier Arístegui, Santiago Hernández-Leon, May Gómez, Carlos Almeida, Agustin Portillo-Hahnefeld, Maria F. Montero and Theodore T. Packar

	<b>Title:</b> Seasonal variability in plankton community structure, productivity and food web transfer along the salinity gradient of the Baltic Sea
A:12	<b>Authors:</b> E. Bresnan, C. Collins, E. Turrell, A-L Amorim, J-P Lacaze, L. Brown, J. Graham, and A. Koryzinska
	<b>Title:</b> The dinoflagellate genus <i>Alexandrium</i> (Halim) in Scottish waters: A combined approach to assess diversity, toxin production and response to environmental variables
A:13	<b>Withdrawn</b>
A:14	<b>Authors:</b> Rui Rosa, Liliana Gonzalez, Bernardo Broitman, Susana Garrido, A. Miguel Santos, and Maria L. Nunes
	<b>Title:</b> Biochemical ecology of small pelagic fishes: the linkage between environment and fisheries
A:15	<b>Authors:</b> Tobias Kreibich, Reinhard Saborowski, Wilhelm Hagen, and Barbara Niehoff
	<b>Title:</b> Influence of short-term nutritional variations on digestive enzyme and fatty acid patterns of the calanoid copepod <i>Temora longicornis</i>
A:16	<b>Authors:</b> Laura Würzberg, Janna Peters, Enrico Schwabe, Svetlana Rodkina, and Angelika Brandt
	<b>Title:</b> Pteropods (Gastropoda: Opisthobranchia) in the Southern Ocean: First results from fatty acid and stable isotope analyses on the SYSTCO material
A:17	<b>Authors:</b> Susana Garrido, Rui Rosa, Radhouan Ben-Hamadou, Maria Emilia Cunha, Maria Alexandra Chicharo, and Carl D. van der Lingen
	<b>Title:</b> Fatty acid biomarkers of Iberian sardine diet
A:18	<b>Authors:</b> Barbara Niehoff, Tobias Kreibich, Heidi Blank, Viviane Brüll, Pamela Ohlf, Wilhelm Hagen
	<b>Title:</b> The response of <i>Centropages typicus</i> to changing food conditions: results from time series sampling and laboratory experiments
A:19	<b>Authors:</b> S. B. Schnack-Schiel, H. Kennedy, J. Michels, H. Mütze, A. Cornils, and D. N. Thomas
	<b>Title:</b> Trophic relationships among zooplankton in the Weddell Sea with special emphasis on copepods.
<b>Posters</b>	
A:20	<b>Authors:</b> A. Hedayati, V. Yavari, and T. Bagheri
	<b>Title:</b> A General Survey on Planktons in Southern Area of Caspian Sea
A:21	<b>Authors:</b> Annika Wiebring, Heike Helmholz, Stephan Lassen, Andreas Prange, and Gerhard Jarms
	<b>Title:</b> Analysis and separation of different types of nematocysts from <i>Cyanea capillata</i> and mass spectrometry of capsule contents
A:22	<b>Withdrawn</b>
A:23	<b>Authors:</b> Heike Helmholz, Stephan Lassen, Christiane Ruhnau, and Andreas Prange
	<b>Title:</b> Toxicological and biochemical characterization of northern scyphozoan species
A:24	<b>Authors:</b> Lona Batta, Gabriela Paola, Ann Bucklin, and Peter Wiebe
	<b>Title:</b> Environmental genomics of <i>Salpa thompsoni</i> : searching for molecular indicators of adaptation and bloom formation

A:25	<b>Authors:</b> J. Cruz, A. M. Chícharo, S. Garrido, R. Ben-Hamadou, L. Chícharo, P. Ré, and A. M. P Santos
	<b>Title:</b> Temporal and spatial variation of egg production, RNA:DNA ratio and fatty acids composition of the calanoid copepod <i>Acartia clausi</i> in the Gulf of Cadiz
A:26	<b>Authors:</b> Tobias Kreibich and Reinhard Saborowski
	<b>Title:</b> Sensitive assays for studying digestive enzymes in individual copepods
A:27	<b>Authors:</b> Inmaculada Herrera-Rivero and Santiago Hernández-León
	<b>Title:</b> Aminoacyl-tRNA synthetases (AARS) and RNA:DNA methods like as index of <i>in situ</i> growth rate for Atlantic herring larvae

## Theme Session B

### Beyond geolocation: Inferring and explaining the behavior of tagged fish

Conveners: Uffe Høgsbro Thygesen (Denmark) and Molly Lutcavage (USA)

#### Papers/Oral presentations

Code	Author(s) and title
B:01	<b>Authors:</b> Timothy B. Grabowski, Vilhjálmur Thorsteinsson, and Guðrún Marteinsdóttir
	<b>Title:</b> Assessing the lekking hypothesis for the mating system of Atlantic cod <i>Gadus morhua</i> using electronic data storage tags
B:02	<b>Authors:</b> Judith Brown, Paul Brickle and Alexander Arkhipkin
	<b>Title:</b> Initial results of satellite linked archival tagging in the Patagonian toothfish ( <i>Dissostichus eleginoides</i> Smitt, 1898) around the Falkland Islands.
B:03	<b>Authors:</b> Martin Wæver Pedersen, Toby Patterson, and Uffe Høgsbro Thygesen
	<b>Title:</b> Estimating spatially and temporally dependent behaviour switching of tagged marine animals
B:04	<b>Authors:</b> J. D. Metcalfe, R. P. Wilson, O.S. Kjesbu, M. J. Challiss A. Gleiss, J. E. Skjæraasen and S. Clarke
	<b>Title:</b> From “where” and “when” to “what” and “why”: archival tags for monitoring “complex” behaviours in fish
B:05	<b>Authors:</b> Johannes Sturlaugsson, Sigmar Gudbjornsson, and Hagen Stockhausen
	<b>Title:</b> Orientation of homing Atlantic salmon ( <i>Salmo salar</i> L.) mapped in relation to geomagnetic field
B:06	<b>Authors:</b> Eric D. Prince, Jiangang Luo, C. Phillip Goodyear, John P. Hoolihan, Derke Snodgrass, Eric S. Orbesen, Joe E. Serafy, Mauricio Ortiz, and Michael Schi
	<b>Title:</b> Ocean Scale Hypoxia Based Habitat Compression of Atlantic Istiophorid Billfishes
B:07	<b>Authors:</b> Toby Patterson, Mark Bravington Mark Hindell Martin Biuw Mike Fedak, and Christophe Guinet
	<b>Title:</b> Lessons from a global-scale behavioural analysis of air-breathing data sets: What you can do when you know where you are.
B:08	<b>Authors:</b> Stefan Neuenfeldt, Uffe Høgsbro Thygesen, and Jane Windfeldt Behrens

	<b>Title:</b> Adaptive behaviour of Baltic cod feeding in hypoxic water
B:09	<b>Authors:</b> Junita D. Karlsen, Hans J. Olesen, and Niels G. Andersen
	<b>Title:</b> Behaviour of large Atlantic cod at ship wrecks and similar rough bottom structures in the north-eastern part of the central North Sea
B:10	<b>Authors:</b> Sam Subbey and Cathrine Michalsen
	<b>Title:</b> A Comparative Analysis of the Vertical Dynamics of Cod ( <i>Gadus morhua</i> ) in Four Different Ecosystems Using Data from DSTs.
B:11	<b>Authors:</b> François Royer, Philippe Gaspar, Beatriz Calmettes, Inna Senina, and Patrick Lehodey
	<b>Title:</b> Inferring pattern from tagging surveys: how to merge heterogeneous datasets
B:12	<b>Authors:</b> David Righton, Victoria Bendall, Colin Bannister, and Julian Metcalfe
	<b>Title:</b> Understanding the ecology of Atlantic cod ( <i>Gadus morhua</i> ) stocks in UK waters: the benefits of archival tagging programmes
B:13	<b>Withdrawn</b>
B:14	<b>Authors:</b> Benjamin Galuardi, François Royer, and Molly Lutcavage
	<b>Title:</b> Linking oceanography and bluefin tuna movements in the Northwest Atlantic

## Posters

B:15	<b>Authors:</b> Ronan Cosgrove, Igor Arregi, Deirdre Brophy, Haritz Arrizabalaga, Victoria Ortiz de Zarate, and Nigel Griffin
	<b>Title:</b> Simulated archival tagging program of albacore tuna ( <i>Thunnus alalunga</i> ) in the North East Atlantic including an analysis of factors affecting tag recovery
B:16	<b>Authors:</b> Greg DeCelles and Steven Cadrin
	<b>Title:</b> Movement patterns of winter flounder in the southern Gulf of Maine
B:17	<b>Withdrawn</b>
B:18	<b>Withdrawn</b>
B:19	<b>Authors:</b> Hagen Stockhausen and Sigmar Guðbjörnsson
	<b>Title:</b> The earth's geomagnetic field and geolocation of fish: first results of a new approach
B:20	<b>Authors:</b> D. Baganz, H. U. Balzer, O. Jauernig, and G. Staaks
	<b>Title:</b> From signals to pattern: a new system reflecting environment in fish behaviour by assessed multiple parameters and pattern analysis
B:21	<b>Authors:</b> David March and Jacopo Aguzzi
	<b>Title:</b> Diel behavioural rhythms of the painted comber ( <i>Serranus scriba</i> ) at Palma Bay Marine Reserve (western Mediterranean)
B:22	<b>Authors:</b> Jane Windfeldt Behrens, Uffe Høgsbro Thygesen, and Stefan Neuenfeldt
	<b>Title:</b> Using biotelemetry to investigate cardiovascular tradeoffs in cod feeding under hypoxic conditions
B:23	<b>Authors:</b> Annette Scheffer, Philip N. Trathan, and Charles-André Bost
	<b>Title:</b> Scale-dependent foraging movements of a long-ranging diving predator in relation to the marine environment

B:24	<b>Authors:</b> Chi H. Lam, Vardis M. Tsontos, and Dale A. Kiefer
	<b>Title:</b> Wavelet analysis of archival tag time series data
B:25	<b>Authors:</b> Timothy B. Grabowski, Vilhjálmur Thorsteinsson, and Guðrún Marteinsdóttir
	<b>Title:</b> Evidence of reproductive isolation among ecologically and behaviorally distinct populations of Atlantic cod
B:26	<b>Authors:</b> David Righton <i>et al.</i>
	<b>Title:</b> Life in the big blue box: studying the marine life of European eels

## Theme Session C

### Advances in marine ecosystem research: what we have learned from GLOBEC and what we can carry forward in future climate related programs

Conveners: Geir Ottersen (Norway), Keith Brander (Denmark), and Mike Fogarty (USA)

#### Papers/Oral presentations

Code	Author(s) and title
C:01	<b>Authors:</b> Martin Lindegren, Christian Möllmann, Anders Nielsen, Keith Brander, Brian and MacKenzie
	<b>Title:</b> Ecological Forecasting under Climate Change – the case of Baltic cod
C:02	<b>Authors:</b> Ray Hilborn, Boris Worm <i>et al.</i>
	<b>Title:</b> Comparative changes in fish communities in marine ecosystems
C:03	<b>Authors:</b> Kai Wieland and Holger Hovgård
	<b>Title:</b> Cod versus shrimp dominance in West Greenland water: Can climate change reverse the regime shift from a cod to a shrimp dominated ecosystem?
C:04	<b>Authors:</b> Irene Mantzouni and Brian R. MacKenzie
	<b>Title:</b> Why is haddock overtaking cod? Comparing the effects of temperature and habitat size on recruitment dynamics of both species across the N Atlantic
C:05	<b>Authors:</b> A. A. Filin
	<b>Title:</b> Changes in cod management strategy that have resulted from warming scenarios for the Barents Sea
C:06	<b>Authors:</b> M. Hidalgo, Y. Gusdal, G. E. Dingsør, L. Ciannelli, D. Hjermann, G. Ottersen, L. C. Stige, I. Fossum, A. Melsom, and N. C. Stenseth
	<b>Title:</b> Combining hydrographical particles-tracking models with spatial analyses to evaluate spatial dynamics of cod larvae and 0-group in the Barents Sea
C:07	<b>Authors:</b> D. Ø. Hjermann, B. Bogstad, G. E. Dingsør, H. Gjøsæter, G. Ottersen, A. M. Eikeset, and N. C. Stenseth
	<b>Title:</b> Trophic interactions affecting a key ecosystem component: a multi-stage analysis of the recruitment of the Barents Sea capelin
C:08	<b>Authors:</b> Geir Ottersen, Esben M. Olsen, and Nils Chr. Stenseth

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	<b>Title:</b> Enhancing stock-recruitment models for North Sea cod by including climate and zooplankton
C:09	<b>Authors:</b> Charles A. Stock and John P. Dunne
	<b>Title:</b> Controls on the ratio of mesozooplankton production to primary production in marine ecosystems
C:10	<b>Authors:</b> Jonna Tomkiewicz, Josianne G. Støttrup, Charlotte Jacobsen, Maria C. Røjbek, and Fritz Köster
	<b>Title:</b> Influence of lipids and fatty acid composition in Eastern Baltic cod ( <i>Gadus morhua</i> L.) and its prey with emphasis on the timing of maturation and spawning

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## Posters

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C:11	<b>Authors:</b> Kyungmi Jung, Svein Sundby, Anders Thorsen, Arild Folkvord, and Olav Sigurd Kjesbu
	<b>Title:</b> Bio-physical properties of Norwegian coastal cod eggs from different local populations

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## Theme Session D

### Trends in chlorophyll and primary production in a warmer North Atlantic

Conveners: Antonio Bode (Spain), Jon Hare (USA), and Luis Valdés (IOC, UNESCO)

## Papers/Oral presentations

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Code	Author(s) and title
<b>ICES</b>	
D:01	<b>Authors:</b> Sarah L. Hughes, N. Penny Holliday, Eugene Colbourne, Vladimir Ozhigin, Hedinn Valdimarsson, Svein Østerhus, and Karen Wiltshire
	<b>Title:</b> Comparison of <i>in situ</i> time-series of temperature with gridded sea surface temperature datasets in the North Atlantic
D:02	<b>Authors:</b> William Li
	<b>Title:</b> Coherent change in multiyear trends of chlorophyll and bacterioplankton
D:03	<b>Authors:</b> Xosé Anxelu G. Morán, Ángel López-Urrutia, William K.W. Li and Alejandra Calvo-Díaz Xosé Anxelu G. Morán, Ángel López-Urrutia, William K.W. Li
	<b>Title:</b> Changes in phytoplankton size-structure with warming in the temperate North Atlantic
D:04	<b>Authors:</b> K. J. W. Hyde, J. E. O'Reilly, M. H. Taylor, J. A. Hare, and M. J. Fogarty
	<b>Title:</b> Multi-decadal analysis of phytoplankton biomass and production in the northeast U.S. continental shelf Large Marine Ecosystem
D:05	<b>Authors:</b> J. Hare, K. J. W. Hyde, O. Schofield, J. E. O'Reilly, and J. Jossi
	<b>Title:</b> Long-term trends in Phytoplankton color index in the northeast U.S. continental shelf ecosystem and short-term relationships with satellite derived chlorophyll estimates

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D:06	<b>Withdrawn</b>
D:07	<b>Authors:</b> H. H. Debes, E. Gaard, B. Hansen, and H. Hátún <b>Title:</b> Changes in phytoplankton biomass during a period of significant warming in the south-western Norwegian Sea
D:08	<b>Authors:</b> Sergey Aleksandrov <b>Title:</b> Primary production and chlorophyll concentration in the Baltic Sea
D:09	<b>Authors:</b> M. H. Schlüter, A. Merico, A. Kraberg, and K. H. Wiltshire <b>Title:</b> Changes in seasonal diatom succession and their possible causes at Helgoland Roads
D:10	<b>Authors:</b> Y. Sagarminaga <b>Title:</b> Evolution (1998-2008) of early spring blooms in offshore waters within the Bay of Biscay and its relationship with sea surface temperature trends.
D:11	<b>Authors:</b> M. Revilla, A. Borja, G. Chust, A. Fontán, J. Franco, M. González, and V. Valencia <b>Title:</b> A two-decade record of temperature and chlorophyll in surface waters within the Basque Country (southeastern Bay of Biscay)
D:12	<b>Authors:</b> Oleg Titov <b>Title:</b> Trends in oxygen saturation of near-bottom layers in the Barents Sea: a possible indicator of long-term variations in the primary production?
<b>Posters</b>	
D:13	<b>Authors:</b> Antonio Bode <i>et al.</i> <b>Title:</b> Year-to-year variability in inorganic nutrients, primary production and phytoplankton biomass off NW Spain from 1990 to 2007
D:14	<b>Authors:</b> Fernando González and Ricardo Anadón <b>Title:</b> Changes in the timing of the North Atlantic Spring Phytoplankton Bloom during the last decade
D:15	<b>Authors:</b> A. P. Oliveira, L. Cabeçadas, and T. Pilar-Fonseca <b>Title:</b> Links between phytoplankton, CO2 emissions and water properties: a case study in Portuguese coastal waters

## Theme Session E

### Climate impacts on marine fishes: discovering centennial patterns and disentangling current processes

Conveners: Brian MacKenzie (Denmark), Corinna Schrum (Norway), Myron A. Peck (Germany), and Skip McKinnell (PICES)

#### Papers/Oral presentations

Code	Author(s) and title
E:01	<b>Authors:</b> Kenneth Sherman, Kevin D. Friedland, Jay O'Reilly, Kimberly Hyde, and Igor M. Belkin <b>Title:</b> Accelerated Warming and Emergent Trends in Fisheries Biomass Yields of the World's Large Marine Ecosystems
E:02	<b>Authors:</b> R. van Hal, F. Stuke, I. Tulp, and A. D. Rijnsdorp <b>Title:</b> Climate induced changes in the growth rate of flatfish species in the North Sea by means of food competition.
E:03	<b>Authors:</b> T. Kristiansen, K. Drinkwater, and J. Zavala-Garay <b>Title:</b> Analyzing warm and cold climate phases to understand differences in survival and connectivity of larval cod: possible implications for climate change
E:04	<b>Authors:</b> Rudi Voss, Christoph Petereit, and Hans-Harald Hinrichsen <b>Title:</b> The spatial dimension of climate-driven temperature change in the Baltic Sea
E:05	<b>Authors:</b> B. N. Kotenev, V. P. Serebryakov, M. V. Bondarenko, and A. D. Morozov <b>Title:</b> Climatic impact on Northeast Arctic cod year-class strength: relevance of the Ricker and Beverton-Holt models for determination "recruitment-stock" dependence
E:06	<b>Authors:</b> Hinrichsen, Huwer, Makarchouk, Neuenfeldt, Petereit, Schaber, and Voss <b>Title:</b> Climate driven long-term evolution of oxygen concentration in the Baltic Sea: potential consequences for the Baltic cod stock
E:07	<b>Authors:</b> E. M. Karasiova, G. Kraus, and R. Voss <b>Title:</b> Long-term fluctuations of Baltic cod egg production in relation to major inflow events
E:08	<b>Authors:</b> Martin Huret, Pierre Petitgas, and Fabien Léger <b>Title:</b> Potential responses of anchovy ( <i>Engraulis encrasicolus</i> ) larval dispersal to climate change in the Bay of Biscay
E:09	<b>Authors:</b> Marc Hufnagl, Myron A. Peck, Mark Dickey-Collas, Richard D.M. Nash, Thomas Pohlmann <b>Title:</b> Climate-driven changes in the recruitment of North Sea herring: Bottom-up control on the survival of early life stages identified using a biophysical individual-based model
E:10	<b>Authors:</b> Ángela M. Caballero-Alfonso, A. Trujillo-Santana, U. Ganzedo-López, A. Santana del Pino, and J. J. Castro-Hernández <b>Title:</b> Do climate patterns explain by themselves the oscillations observed for the Bluefin tuna ( <i>Thunnus thynnus</i> ) at the Western Mediterranean 'almadrabas' traps catches since 1500s to 1960s?
E:11	<b>Authors:</b> A. F. Sell, S. Ehrich, V. Stelzenmüller, and G. Wegner

	<b>Title:</b> Regional effects of climate change on North Sea bottom fish assemblages
E:12	<b>Authors:</b> Brian R. MacKenzie and Bo Poulsen
	<b>Title:</b> Fishing and jellyfish eradicate fish 180 years ago
E:13	<b>Withdrawn</b>
E:14	<b>Authors:</b> Jaime Otero, Arne J. Jensen, Jan Henning L'Abée-Lund, Nils Chr. Stenseth, Geir O. Storvik, and Leif Asbjørn Vøllestad
	<b>Title:</b> Factors affecting year-to-year and within river variability of one-sea winter Atlantic salmon in Norwegian rivers
E:15	<b>Authors:</b> S. P. Melnikov, A. L. Karsakov, V. I. Popov, V. L. Tretyak, and I. S. Tretyakov
	<b>Title:</b> The impact of variations in oceanographic conditions on distribution, aggregation structure and fishery pattern of redfish ( <i>Sebastes mentella</i> Travin) in the pelagial of the Irminger Sea and adjacent waters
E:16	<b>Authors:</b> Marta Moyano, Jose María Rodríguez, and Santiago Hernández-León
	<b>Title:</b> Clupeoid fish in the Canaries-African Coastal Transition Zone: Transport Dynamics and Links to Climate
E:17	<b>Authors:</b> Thomas Brunel and Mark Dickey-Collas
	<b>Title:</b> Can we estimate the effects of temperature change on herring growth? A macro-ecological analysis of temperature and density-dependence on North Atlantic herring growth.
E:18	<b>Authors:</b> Ute Daewel, Corinna Schrum, and Myron Peck
	<b>Title:</b> Impact of environmental change on North Sea Atlantic cod ( <i>Gadus morhua</i> ): Scenario modeling in the North Sea
E:19	<b>Authors:</b> Mark R. Payne, Hjálmar Hátún, Asbjørn Christensen, and Jan Arge Jacobsen.
	<b>Title:</b> Recruitment in a changing environment: the role of oceanographic processes in Blue Whiting population dynamics
E:20	<b>Authors:</b> G. J. Pierce, M. B. Santos, J. M. Cabanas, I. Riveiro, and C. Porteiro
	<b>Title:</b> Are there climatic signals in fishery data for sardine ( <i>Sardina pilchardus</i> ) along the Iberian Atlantic coast?
E:21	<b>Authors:</b> M. Fosshem, E. Johannesen, R. Primicerio, and M. Aschan
	<b>Title:</b> Spatial variation and structural change of the Barents Sea fish community
E:22	<b>Authors:</b> Caroline Struski, Pierre Petitgas, and Martin Huret
	<b>Title:</b> Long-term hindcast and climate change forecast of habitat suitability using a bioenergetics model : anchovy in the Bay of Biscay and the North Sea.
E:23	<b>Authors:</b> Eydna í Homrum, Petur Steingrund, Lise H. Ofstad, and Hjálmar Hátún
	<b>Title:</b> Is the growth of Faroe Saithe density dependent or climate dependent?
E:24	<b>Authors:</b> John K. Pinnegar, Steven Mackinson, and Georg H. Engelhard
	<b>Title:</b> Back to the Future: 115 years of climate and fisheries in the North Sea
E:25	<b>Authors:</b> Pierre Petitgas, Martin Huret, Fabien Léger, Myron Peck, and Adriaan Rijnsdorp
	<b>Title:</b> Summarising with Multiple Factor Analysis (MFA) the seasonal and inter-annual variability in the long-term hindcasts of lower trophic ecosystem models: applications in the North Sea and Bay of Biscay.

E:26	<b>Authors:</b> Enrique Curchitser, Kenneth Rose, Kate Hedstrom, Jerome Fiechter, Shin-ichi Ito, Salvador Lluch-Cota, and Bernard Megrey
	<b>Title:</b> Development of a climate-to-fish-to-fishers model: progress, issues, and some solutions
E:27	<b>Authors:</b> Ginger L. Jahn and Elizabeth W. North
	<b>Title:</b> Do Striped Bass ( <i>Morone saxatilis</i> ) Spawn in Response to High River Flow Events?
E:28	<b>Authors:</b> H. Kim, H. J. Hwang, D. H. Kim, M. H. Sohn, J. B. Kim, K. H. Choi, and I. Yeon
	<b>Title:</b> Effect of Siberian High on the catch fluctuation of pacific cod, <i>Gadus macrocephalus</i> , in the Yellow Sea
E:29	<b>Authors:</b> Sean P. Powers, F. Joel Fodrie, Nicole Shaffer, Matthew W. Johnson, and Robert L. Shipp
	<b>Title:</b> Changes in growth rates of reef fish in the Gulf of Mexico: Evidence for climate change or overharvesting?
E:30	<b>Authors:</b> M. F. Borges
	<b>Title:</b> Fish production regime shifts in the West Iberia upwelling system and their relation to climate patterns: a review
E:31	<b>Authors:</b> Anna B. Neuheimer and Christopher T. Taggart
	<b>Title:</b> Climate and fishing: Disentangling factors affecting growth in Scotian shelf haddock ( <i>Melanogrammus aeglefinus</i> ).

## Posters

E:32	<b>Authors:</b> A. V. Dolgov, O. V. Smirnov, K. V. Drevetnyak, and O. Yu. Chetyrkina
	<b>Title:</b> New data on composition and structure of the Kara Sea ichthyofauna
E:33	<b>Authors:</b> Vladimir Laptikhovsky and Alexander Arkhipkin
	<b>Title:</b> Environmental changes caused recent increase in abundance of rock cod, <i>Patagonotothen ramsayi</i> in the Southwest Atlantic
E:34	<b>Authors:</b> Yongjun Tian, Hideo Sakaji, Ken Watanabe, and Masahiro Kuno
	<b>Title:</b> Response of yellowtail <i>Seriola quinqueradiata</i> in the Japanese waters to sea water temperature over the last century and potential effect of global warming
E:35	<b>Authors:</b> Harald Loeng and Øystein Skagseth
	<b>Title:</b> The rise and fall of the blue whiting stock
E:36	<b>Authors:</b> D. L. Lajus, Ya. I. Alekseeva, Z. V. Dmitrieva, A. V. Kraikovskiy, and J. A. Lajus
	<b>Title:</b> Climate effect on populations of Atlantic salmon <i>Salmo salar</i> in the Barents and White Sea basins (17-20th cc.)
E:37	<b>Authors:</b> Maja Walter, Muriel-Marie Kroll, and Myron A. Peck
	<b>Title:</b> Larval Fish Growth Physiology and Climate Impacts: Species-specific differences in Thermal Tolerance
E:38	<b>Authors:</b> Myron A. Peck, Mark R. Payne, Ute Daewel, Marc Hufnagl, and Irina Alekseeva, and Corinna Schrum
	<b>Title:</b> Climate-driven changes in suitable habitats for North Sea fish: Physiological constraints on the survival of early life stages

**Theme Session F**  
**How does fishing alter marine population's and  
ecosystem's sensitivity to climate?**

Conveners: Benjamin Planque (Norway) and Miguel Bernal (Spain)

**Papers/Oral presentations**

<b>Code</b>	<b>Author(s) and title</b>
F:01	<b>Authors:</b> Benjamin Planque and Miguel Bernal <b>Title:</b> How does fishing alter marine populations' and ecosystems' sensitivity to climate? – An introduction
F:02	<b>Authors:</b> S. Van der Zon, R. Van Hal, R. Hille Ris Lambers, T. Van Kooten, N. Hintzen, and A. D. Rijnsdorp <b>Title:</b> Modeling the competition for food by flatfish species in the North Sea under different temperature regimes and fishing pressures.
F:03	<b>Authors:</b> Anthony Charles <b>Title:</b> The Interaction of Fisheries and Climate Change: Socioeconomic and Management Perspectives
F:04	<b>Authors:</b> M. Hidalgo, T. Rouyer, E. Massuti, J. Moranta, B. Guijarro, and N.C. Stenseth <b>Title:</b> A shift in a hake ( <i>Merluccius merluccius</i> ) population of the NW Mediterranean induced by a combine effect of climate and fishery harvesting
F:05	<b>Authors:</b> M. Aschan, M. Fossheim, and R. Primicerio <b>Title:</b> Changes in the Barents Sea fish community induced by environmental change and fishery
F:06	<b>Authors:</b> Janet A. Nye and Jason S. Link <b>Title:</b> Temperature-modified stock-recruitment relationships for Northwest Atlantic fish stocks, a metapopulation approach
F:07	<b>Authors:</b> Sylvie Guénette, Didier Gascuel, and Stéphanie Mahévas <b>Title:</b> Considering the both fishing and climate in a model of the Celtic Sea and the Bay of Biscay: what do we learn?
F:08	<b>Authors:</b> Carlos Pinto, Hans Mose Jensen and Neil Holdsworth <b>Title:</b> ICES EcoSystemData – Delivering data and tools that facilitate the study of climate and fisheries exploitation interactions
F:09	<b>Authors:</b> Daan, Gislason, Pope, and Rice <b>Title:</b> A fishery-induced cause of regime shifts that does not require a change in environmental conditions

## Theme Session G

### Comparative study of climate impact on coastal and continental shelf ecosystems in the ICES area: assessment and management

Conveners: Jürgen Alheit (Germany); Stephen Brown (USA); and Ken Drinkwater, (Norway)

#### Papers/Oral presentations

Code	Author(s) and title
G:01	<b>Authors:</b> L. Bergström, A. Gårdmark, and J. Olsson <b>Title:</b> Integrated analyses of coastal ecosystems – addressing temporal trends in Baltic fish and zoobenthos
G:02	<b>Authors:</b> Ülo Suursaar, Robert Aps, Tiit Kullas, Georg Martin, and Mikk Otsmann <b>Title:</b> Developments in the shallow coastal ecosystem of the Väike Strait (Baltic Sea): a comparative study with different modelling scenarios
G:03	<b>Authors:</b> T. Blenckner, R. Diekmann, C. Möllmann, A. Gårdmark, M. Casini, L. Bergström, J. Flinkman, B. Müller-Karulis, M. Lindegren, G. Kornilovs, and M. Plikss <b>Title:</b> Climate-induced synchronous regime shifts along environmental and diversity gradients in Baltic Sea sub-systems
G:04	<b>Authors:</b> E. M. Karasiova <b>Title:</b> Cod populations in the eastern Baltic Sea and the White Sea: the environmental extremeness as a factor of two unique reproduction strategies formation
G:05	<b>Authors:</b> Jürgen Alheit <i>et al.</i> <b>Title:</b> Impact of climate variability on northern hemisphere marine ecosystems: regime shifts and teleconnection patterns
G:06	<b>Authors:</b> S. Niiranen, M. T. Tomczak, T. Blenckner, and O. Hjerne <b>Title:</b> Dynamics and regimes of the Baltic Proper food web, linking time series analysis with modelling
G:07	<b>Authors:</b> D. Christopher Melrose, Mark Berman, and Candace Oviatt <b>Title:</b> Ecological Effects of Climate Change on Narragansett Bay, RI
G:08	<b>Authors:</b> Stewart Frusher <i>et al.</i> <b>Title:</b> Managing marine ecosystem goods and services in a changing climate: a case study on the Tasmanian east coast lobster fishery
G:09	<b>Authors:</b> Ken Drinkwater, Franz Mueter, Kevin Friedland, George Hunt, Jon Hare, Cecilie Broms, Webjørn Melle, and Maureen Taylor <b>Title:</b> Ecosystem responses to recent climate variability: Comparison of 4 Northern Hemisphere regions
G:10	<b>Authors:</b> Jürgen Alheit <b>Title:</b> Impact of climate variability on pelagic food webs in European shelf systems, with a focus on trophic relations between zooplankton and small pelagic fish
G:11	<b>Authors:</b> V. Valencia, A. Borja, A. Fontán, N. Goikoetxea, and J. Sáenz <b>Title:</b> Recent climatic changes in the SE Bay of Biscay affecting pelagic and coastal ecosystems.

G:12	<b>Withdrawn</b>
G:13	<b>Authors:</b> Anda Ikauniece, Juris Aigars, Baiba Kalveka, Vadims Jermakovs, and Iveta Jurgensone <b>Title:</b> Ecosystem changes and possible management solutions in the shallow areas of the Eastern Baltic Sea – effort of Latvian KALME
G:14	<b>Authors:</b> Rabea Diekmann, Andrew Kenny, and Christian Möllmann <b>Title:</b> Comparative Integrated Ecosystem Assessments of the North Sea and Baltic Sea
G:15	<b>Authors:</b> Brian J. Rothschild, Changsheng Chen, Song Hu, Robert C. Beardsley, Yue Jiao, and Emily F. Keiley <b>Title:</b> Cod and Climate

### Posters

G:16	<b>Authors:</b> M. Tomczak, O. Hjerne, S. Niiranen, and T. Blenckner <b>Title:</b> Baltic food web model as a tool for holistic exploration of Baltic Sea system dynamics and integrated assessment
G:17	<b>Authors:</b> A. Pérez-Torres, F. Alemany, and P. Reglero <b>Title:</b> Environmental variability on the distribution, abundances and growth rates of the larvae of bullet tuna
G:18	<b>Authors:</b> I. González Herraiz, A. C. Fariña, M. P. Sampedro, M. A. Torres, and L. Cañas <b>Title:</b> Galician and Porcupine <i>Nephrops</i> fishery systems: a comparative from a climate induced changes perspective
G:19	<b>Authors:</b> David Kowalske Jr <b>Title:</b> Linking Fisheries to Climate Variability on Georges Bank

## Theme Session H

### What do fish learn in schools? Life cycle diversity within populations, mechanisms and consequences

Conveners: Dave Secor (USA), Pierre Petitgas (France), Ian McQuinn (Canada), and Steve Cadrin (USA)

#### Papers/Oral presentations

Code	Author(s) and title
H:01	<b>Authors:</b> Steve Cadrin, Matthias Bernreuther, Einar Hjörleifsson, Torild Johansen, Lisa Kerr, Kristjan Kristinsson, Stefano Mariani, and Cristophe Pampoulie <b>Title:</b> Mechanisms and consequences of life cycle diversity of beaked redfish, <i>Sebastes mentella</i>
H:02	<b>Authors:</b> L. A. Kerr, S. X. Cadrin, and D. H. Secor <b>Title:</b> Consequences of spatial structure and connectivity to productivity and persistence of local and regional populations

H:03	<b>Authors:</b> Michael J. Wilberg, Brian J. Irwin, Michael L. Jones, and James R. Bence
	<b>Title:</b> Effects of Source-Sink Dynamics on Harvest Policy Performance for Yellow Perch in Southern Lake Michigan
H:04	<b>Authors:</b> Christopher Glass and Huseyin Ozbilgin
	<b>Title:</b> Fish escapement from fishing gears: the role of learning.
H:05	<b>Authors:</b> Mikael van Deurs, Christina Frisk, Asbjørn Christensen, and Henrik Mosegaard
	<b>Title:</b> Adaptive foraging behaviour and the role of the overwintering strategy
H:06	<b>Authors:</b> Julian Dodson, Nadia Aubin-Horth, Véronique Thériault, and David Paez
	<b>Title:</b> Sexual selection, resource polymorphism and the evolution of partial migration: lessons from anadromous salmonids
H:07	<b>Authors:</b> Daniel E Duplisea, Michael Frisk, and Verena Trenkel
	<b>Title:</b> Has cumulative habitat destruction and fragmentation caused systematic deviations from the expected interspecific occupancy-abundance relationship of the George's Bank fishes?
H:08	<b>Authors:</b> C. Harma, D. Brophy D, and M. Clarke
	<b>Title:</b> The long term Autumn-Spawning/Winter-Spawning component proportions in the Celtic Sea
H:09	<b>Authors:</b> Pierre Petitgas and Dave Secor
	<b>Title:</b> Mechanisms that sustain life cycle closure in space and time.
H:10	<b>Authors:</b> David H. Secor
Poster	<b>Title:</b> An Update on Harden Jones' Migration Triangle
H:11	<b>Authors:</b> Geir Huse, Anders Fernø, and Jens Christian Holst
	<b>Title:</b> Establishment of new wintering areas in herring co-occur with peaks in recruit to spawner ratio
H:12	<b>Authors:</b> Jay R. Rooker, David H. Secor, R. David Wells, and Richard T. Kraus
	<b>Title:</b> Blue travelers: basin-scale connectivity of bluefin tuna and blue marlin in the American Mediterranean Blue travelers: basin-scale connectivity of bluefin tuna and blue marlin in the Ame
H:13	<b>Authors:</b> Grégory Charrier
	<b>Title:</b> Discrepancies between population genetic structure and adult migration patterns in cod ( <i>Gadus morhua</i> ) and whiting ( <i>Merlangius merlangus</i> ): evidences for entrainment ?
H:14	<b>Authors:</b> Graham D. Sherwood, Matthew J.S. Windle, Jonathan H. Grabowski, and George A. Rose
	<b>Title:</b> Could ecotype variation have stacked the deck for harvest selection in Newfoundland cod?
H:15	<b>Authors:</b> Jonathan H. Grabowski and Graham D. Sherwood
	<b>Title:</b> Atlantic cod ( <i>Gadus morhua</i> ) alternate life-history strategies in the Gulf of Maine
H:16	<b>Authors:</b> Alethea Barbaro <i>et al.</i>
	<b>Title:</b> Modelling and simulations of the migration of pelagic fish
H:24	<b>Authors:</b> Michael Sinclair, Robert Stephenson, Michael Power, and Iain Suthers

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**Title:** Persistent aggregation and retention of herring larvae in the Bay of Fundy

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## Posters

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- H:17    **Authors:** Sun-Do Hwang, Tae-Won Lee, and Il-Su Choi
- 
- Title:** Environmental factors affecting the daily catch levels of glass eels *Anguilla japonica* in the Geum-river estuary, Korea
- 
- H:18    **Authors:** Anna Kuparinen, Sakari Kuikka, and Juha Merilä
- 
- Title:** Phenotypic selectivity of fishing
- 
- H:19    **Authors:** B. J. McAdam, T. B. Grabowski, and G. Marteinsdottir
- 
- Title:** Morphological Markers and the Population Structure of Icelandic Cod
- 
- H:20    **Authors:** Svetlana Piyanova, Andrey Petrov, and Nikolay Kokorin
- 
- Title:** Assessment of ovary condition of Antarctic toothfish *Dissostichus mawsoni* (Nototheniidae) from the Ross Sea
- 
- H:21    **Authors:** Salvador Peraltilla, Ramiro Castillo, Luis Vásquez, and Andrés Chipollini
- 
- Title:** Characteristics schools of Peruvian anchovy during the summer months 2003 to 2008
- 
- H:22    **Authors:** Leonardo R. Castro *et al.*
- 
- Title:** Inner fjords and shelf break canyons: spawning habitats for the southern hake *Merluccius australis* and hoki *Macruronus magellanicus* in the Chilean Patagonia
- 
- H:23    **Authors:** Gloria Blanco; Agustín Fernández; Ian McCarthy, and José A. Sánchez,
- 
- Title:** Life-history strategies and environmental variation in Atlantic salmon (*Salmo salar*)
- 

## Theme Session I

### Monitoring requirements, observation technologies and methods (e.g. acoustics) for pelagic organisms at local and basin scales for input into ecosystem based fisheries management assessments

Conveners: Olav Rune Godø (Norway), Verena Trenkel (France), and Martin Dorn (USA)

## Papers/Oral presentations

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- | Code | Author(s) and Title  |
|------|--|
| I:01 | <b>Authors:</b> Peter H. Wiebe, Dezhang Chu, Stein Kaartvedt, Anna Hölter, Webjørn Melle, Egil Ona, and Paola Batta-Lona.                                |
|      | <b>Title:</b> Acoustic properties of <i>Salpa thompsoni</i>  |
| I:02 | <b>Withdrawn</b>   |
| I:03 | <b>Authors:</b> Alex De Robertis, Christopher D. Wilson, and Neal J. Williamson  |
|      | <b>Title:</b> Do silent ships see more fish? Comparison of acoustic backscatter recorded by a noise-reduced and a conventional research vessel in Alaska |
-

I:04	<b>Authors:</b> Steven J. Barbeaux, John K. Horne, and Martin Dorn
	<b>Title:</b> Analyzing fish spatial and temporal distribution patterns using un-calibrated acoustic data from multiple vessels of opportunity
I:05	<b>Authors:</b> Härmä, Meri and Lappalainen, Antti
	<b>Title:</b> Sampling of herring larvae in shallow archipelago – are surface samples sufficient?
I:06	<b>Withdrawn</b>
I:07	<b>Authors:</b> Martin J. Cox and Andrew S. Brierley
	<b>Title:</b> Quantifying ecosystem variation using acoustic scattering layer observations
I:08	<b>Authors:</b> Mathieu Doray, Laurent Berger, and Verena Trenkel
	<b>Title:</b> Influence of beam-angle incidence on fish acoustic backscatter recorded with ME70 multibeam echosounders
I:09	<b>Authors:</b> Sven Gastauer, Sytse Ybema, Bram Couperus, and Cindy J. G. van Damme
	<b>Title:</b> Use of historical acoustic survey data to estimate the stock abundance of mackerel in the North Sea
I:10	<b>Authors:</b> J. H. Vølstad, S. Aanes, D. Skagen, and M. Pennington
	<b>Title:</b> Can scientific trawl surveys with reduced sampling effort for alternate years provide reliable estimates of trends in number at age for Northeast Arctic cod?
I:11	<b>Authors:</b> R. J. Kloser <i>et al.</i>
	<b>Title:</b> Monitoring requirements of mid-trophic organisms at large scales – potential and challenges—an Australian perspective.
I:12	<b>Authors:</b> Kristina Barz, Jan Schulz, and Hans-Jürgen Hirche
	<b>Title:</b> LOKI, a new optical system for high-resolution plankton investigations
I:13	<b>Authors:</b> S. Kasatkina and V.Ivanova
	<b>Title:</b> Modelling study of catchability properties of research and commercial trawls to identify sources of uncertainty in resource surveys indices
I:14	<b>Authors:</b> James Hamilton, Kate Collins, and Simon Prinsenberg
	<b>Title:</b> Temporal variability in arctic zooplankton and phytoplankton populations from moored adcp and Icycler profiler measurements.
I:15	<b>Authors:</b> Youen Vermard, Etienne Rivot, Stéphanie Mahévas, Paul Marchal, and Didier Gascuel
	<b>Title:</b> Identifying fishing trip behavior and estimating fishing effort from VMS : strength and limitations of the Bayesian Hidden Markov Modeling approach
I:16	<b>Authors:</b> Espen Johnsen, Alf Harbitz, and Egil Ona
	<b>Title:</b> When acoustics is not enough – a measurement of sandeel availability
I:17	<b>Authors:</b> Jan Schulz, Kristina Barz, Hans-Jürgen Hirche, and Andree Lütke
	<b>Title:</b> Machine vision analysis of plankton images - Problems and new approaches
I:18	<b>Authors:</b> Laurent Berger, Mathieu Doray, and Verena Trenkel
	<b>Title:</b> Influence of schooling patterns on fish backscatter measured by single and multi-beam echosounders: first results of field observations and realistic acoustic sampling simulations

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- I:19    **Authors:** Patrice Brehmer, Gorka Sancho, Erwan Josse, Marc Taquet, John Dalen, Stratis Georgakarakos, David Itano, Gala Moreno, Pierre Palud, and Vasilis Trygonis,
- 
- Title:** Monitoring fish communities at drifting FADs: an autonomous system for data collection in an ecosystems approach
- 
- I:20    **Authors:** Olav Rune Godø, Vidar Hjellvik, Dag Tjøstheim, and Knut Korsbrekke
- 
- Title:** Minimalistic surveys clear the way for priorities in the ecosystem approach
- 
- I:21    **Authors:** Nils Olav Handegard, Julien Jouanno, Rudy Kloser, Patrick Lehodey, and Olivier Maury
- 
- Title:** Designing an Ocean Mid-trophic Automatic Acoustic Sampler (MAAS)
- 
- I:22    **Authors:** Martin J. Cox, David L. Borchers, and Andrews S. Brierley
- 
- Title:** Estimating krill density from multibeam echosounder observations using distance sampling methods
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## Posters

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- I:23    **Authors:** Imani, M. Ardalan, A. A . Banazadeh, M
- 
- Title:** Satellite altimetry for studies of large lakes (Case study: TOPEX/Poseidon, Jason1 and Caspian sea)
- 
- I:24    **Authors:** Nikolay Timoshenko
- 
- Title:** The results of multi-species surveys of small pelagic fishes recruitment in the Central-eastern Atlantic Ocean (the Canarian upwelling)
- 
- I:25    **Authors:** Pavel Chernyshkov
- 
- Title:** Macro-scale zones of high biological productivity in the South Pacific Ocean as a probable reason of relatively isolated jack mackerel (*Trachurus murphy*) stock units existence
- 
- I:26    **Authors:** T. Pauly, I. Higginbottom, and M. Wilson
- 
- Title:** Eonfusion - in support of an ecosystem approach to fisheries management
- 
- I:27    **Authors:** H. J.Hirche, K.Barz, and J.Schulz
- 
- Title:** A new laboratory imaging system for the documentation and analysis of live and preserved zooplankton samples
- 
- I:28    **Authors:** Magdalena Iglesias, Dolores Oñate, Núria Díaz, M. Pilar Tugores, and Joan Miquel
- 
- Title:** Pelagic fish community on the Spanish Western Mediterranean shelf: towards an ecosystem approach
- 
- I:29    **Authors:** Alexndra Temnykh and Victor Melnikov
- 
- Title:** A New Cassete Planktonometer
- 
- I:30    **Authors:** Patrice Brehmer *et al.*
- 
- Title:** Monitoring and managements of shallow water lagoons
-

## Theme Session J

### Integration of individual based information into fishery and environmental management applications

Conveners: David Somerton, (US) and David Righton (UK)

#### Papers/Oral presentations

Code	Author(s) and title
J:01	<b>Withdrawn</b>
J:02	<b>Authors:</b> Daniel Goethel, Christopher M. Legault, and Steven X. Cadrin <b>Title:</b> A Spatially Explicit Stock Assessment Model Incorporating Tagging Data
J:03	<b>Authors:</b> Susanne F. McDermott, Elizabeth .Logerwell, Ivonne Ortiz, and Vivian Haist <b>Title:</b> Fishery Interaction and Availability of Atka Mackerel Prey for Steller Sea Lions: Results from a Local Abundance and Movement Study of Atka Mackerel
J:04	<b>Authors:</b> Ewan Hunter, Ainsley Buckley, Audrey Darnaude, and Michael Bell <b>Title:</b> Applying individual-based telemetry data in fisheries management: A biologically-based movement model for plaice in the North Sea
J:05	<b>Authors:</b> Alistair J. Hobday, Jason R. Hartog, Richard Matear, Claire M. Spillman, and Oscar Alves <b>Title:</b> Predicting tuna habitat for spatial fisheries management using electronic tags and ocean models
J:06	<b>Authors:</b> Victoria Bendall, Macdara O Cuaig, Pieter-Jan Schön, Stuart Hetherington, Mike Armstrong, Norman Graham, and David Righton. <b>Title:</b> Spatio-temporal dynamics of Atlantic cod ( <i>Gadus morhua</i> ) in the Irish and Celtic Sea: results from a collaborative tagging programme
J:07	<b>Authors:</b> Stefan Neuenfeldt and Jan E. Beyer <b>Title:</b> Using individual-based stomach and data storage tag data to improve multispecies modelling: linking spatial overlap between predator-prey populations and individual functional response
J:08	<b>Authors:</b> David Righton, Bryony Townhill, and Jeroen van der Kooi <b>Title:</b> Catch me if you can: archival tagging studies can help assess changes in the accessibility of Atlantic cod ( <i>Gadus morhua</i> ) to trawl gears
J:09	<b>Withdrawn</b>
J:10	<b>Authors:</b> David Borchers, Debbie Russell, and Neil Campbell <b>Title:</b> Using Vessel Monitoring System Data to Estimate Effort and Landings Distribution Probabilistically
J:11	<b>Withdrawn</b>
J:12	<b>Authors:</b> H. J. Frank, M. E. Mather, J. M. Smith, R. M. Muth, and J. Finn <b>Title:</b> Understanding prespawning behavior of individual anadromous alewives in order to interpret distributional patterns: using tagging to improve the efficiency of coastal watershed restoration
J:13	<b>Authors:</b> Sara Adlerstein, Edward Rutherford, David Clapp, Randy Claramunt, and James

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Johnson

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**Title:** Seasonal migration of salmonids interpreted from coded-wire-tag recoveries in the Great Lakes

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## Posters

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J:14 **Authors:** C. Davies, A. Hobday, C. Wilcox, C. Evans, B Bruce, J. Stevens. M. Basson, R Bradford

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**Title:** Understanding spatial dynamics of large pelagics to inform and evaluate fisheries and conservation management

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J:15 **Authors:** J. Paige Eveson, Marinelle Basson

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**Title:** Incorporating archival tag data into a spatial mark-recapture model for estimating mortality rates, movement and abundance

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J:16 **Authors:** Stefan Neuenfeldt, Mark Payne, David Righton, Jeroen Van Der Kooij

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**Title:** Vertical movements of Atlantic cod (*Gadus morhua*) in the North Sea and the Baltic Sea

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J:17 **Authors:** Stefan Neuenfeldt, Ken Haste Andersen, Kasper Kristensen

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**Title:** Deriving fish behaviour related patterns in fishing pressure from DST data

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## Theme Session K

### Habitat science to support stock assessment

Conveners: Thomas Noji (USA), Pierre Pepin (Canada), and Geir Huse (Norway)

## Papers/Oral presentations

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**Code** **Author(s) and title**

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K:01 **Authors:** V. M. Borisov, G. P.Vanyushin, B. N.Kotenev, M. Yu. Kruzhalov, A. A.Troshkov, and T.V. Bulatova

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**Title:** Satellite monitoring of SST for forecasting of the North-east arctic cod year class strength

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K:02 **Authors:** Howard Townsend

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**Title:** Incorporating food web and habitat interactions in a forage fish stock assessment

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K:03 **Authors:** F. De Raedemaeker, D. Brophy, I. O'Connor, and D. Mc Grath

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**Title:** Growth and habitat requirements of juvenile flatfish at nursery grounds in Galway Bay, Ireland.

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K:04 **Authors:** M. Cryer, M. A. Morrison, N.M. Davies and R.B. Ford

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**Title:** Including the incidental effects of scallop dredging greatly affects fishery models and management advice.

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K:05 **Authors:** Regan Lohandjole

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**Title:** Habitat science to support stock assessment

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K:06 **Authors:** Edda Johannesen, Mette Mauritzen, Ulf Lindstrøm and Per Fauchald

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**Title:** The Barents Sea ecosystem survey: feeding in a heterogeneous environment

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K:07	<b>Authors:</b> Gregory W. Stunz and Jay R. Rooker
	<b>Title:</b> Estuarine-coastal connectivity of red drum populations in the Gulf of Mexico
K:08	<b>Withdrawn</b>
K:09	<b>Authors:</b> Katharine A. Smith, Elizabeth W. North, David H. Secor
	<b>Title:</b> Estimating habitat volume based on physical and biogeochemical models
K:10	<b>Authors:</b> Jake Rice
	<b>Title:</b> Habitat and Stock Assessment: What is Being Assessed?
K:11	<b>Authors:</b> John Manderson, Josh Kohut, and Beth Phelan
	<b>Title:</b> Fish and physics: Using Ocean Observing System to Measure effects of Seascape Dynamics of Fisheries Recruitment
<b>Posters</b>	
K:12	<b>Authors:</b> Tahere Bagheri and Aliakbar Hedayati
	<b>Title:</b> Study of some biological characteristics and population parameters of Crucian carp ( <i>Carassius auratus</i> ) in Gorganroud estuarine
K:13	<b>Withdrawn</b>

### Theme Session L

#### Bringing collaborative science – industry research data into stock assessment and fishery management: evaluating progress and future options

Conveners: Mike Armstrong (UK) and Bill Karp (USA).

#### Papers/Oral presentations

Code	Author(s) and title
L:01	<b>Withdrawn</b>
L:02	<b>Authors:</b> K.V. Drevetnyak, E. A. Shamray, and Yu. M. Lepesevich
	<b>Title:</b> The Russian experience of collecting industry research data in the Barents Sea demersal fishery
L:03	<b>Authors:</b> Kai Wieland, Eva Maria Fenger Pedersen, Hans J. Olesen, Casper Berg, and Jan E.Beyer
	<b>Title:</b> Estimating abundance and biomass of North Sea cod based on survey with commercial fishing vessels
L:04	<b>Authors:</b> Troy Hartley and Christopher Glass
	<b>Title:</b> Science-to-Management pathways for collaborative and traditional herring stock survey data: Using network analysis to track information flow in fisheries management
L:05	<b>Authors:</b> Catherine E. O'Keefe, and Kevin D.E. Stokesbury
	<b>Title:</b> From Bust to Boom: The success of industry collaboration in U.S. sea scallop research

L:06	<b>Withdrawn</b>
L:07	<b>Authors:</b> L. Wise, A. G. Murta, J. P. Carvalho, P. Abreu, A. C. Fernandes, A. L. Ferreira, E. Henriques, D. Silva, G. Pestana, and J. Tomé <b>Title:</b> Cognitive maps from onboard observers as a tool for fishery management.
L:08	<b>Authors:</b> J. M. Portela, S. Goetz, M. Laporta, J. L. del Río, R. Vilela, G. J. Pierce, and M.B. Santos <b>Title:</b> Preliminary results of an Exploratory Fishing targeting <i>Dissotichus eleginoides</i> and <i>Macrourus</i> sp. on the High Seas of the South West Atlantic
L:09	<b>Authors:</b> Ignacio Payá, Vlad Laptikhovsky, and Alexander Arkhipkin <b>Title:</b> Progress and future of using CTD loggers in collaborative swept area surveys of <i>Loligo gahi</i> in the Falkland Islands: Spatial distribution and biomass estimations.
L:10	<b>Authors:</b> R. J. Kloser T. Ryan, G. Geen, G. Patchell, L. Scott, and G. Tuck. <b>Title:</b> Review of industry-based acoustic observation program for blue grenadier and influence on management advice.
L:11	<b>Authors:</b> Brian Harley and Sven Kupschus <b>Title:</b> North Sea GOV ground gear bag trails
<b>Posters</b>	
L:12	<b>Authors:</b> Pascal Lorance, Lionel Pawlowski, and Verena M. Trenkel <b>Title:</b> Deriving blue ling abundance indices from industry haul by haul data
L:13	<b>Withdrawn</b>
L:14	<b>Authors:</b> Hans J. Olesen, Kai Wieland, Uffe H. Thygesen, and Jan E. Beyer <b>Title:</b> Estimating a catchability coefficient for a commercial fishing vessel
L:15	<b>Authors:</b> Jan E. Beyer <i>et al.</i> <b>Title:</b> The REX project: a collaborative fishermen-scientists project on the geographical distribution of Atlantic cod in the north-eastern part of the central North Sea
L:16	<b>Authors:</b> Agnes C. Gundersen, Jesper Boje, Einar Hjørleifsson, Jan Erik Dyb, and Kristin Helle <b>Title:</b> Electronic catch registration onboard commercial fishing vessels for scientific and commercial use

## Theme Session M

### Avoidance of bycatch and discards: technical measures, projects and state of data

Conveners: Lisa Borges, (European Commission), Chris Zimmermann (Germany),  
and Dominic Rihan (Ireland)

#### Papers/Oral presentations

Code	Author(s) and title
M:01	<b>Authors:</b> Frank Chopin

	<b>Title:</b> The Development of International Guidelines on Bycatch Management and Reduction of Discards
M:02	<b>Authors:</b> Lisa Borges <b>Title:</b> The evolution of a discard policy in Europe
M:03	<b>Authors:</b> B. Stockhausen, R. Officer, and R. Scott <b>Title:</b> Discard mitigation – what we can learn from waste minimisation practices in other natural resources?
M:04	<b>Authors:</b> Michael Park <b>Title:</b> Dealing with discards
M:05	<b>Authors:</b> R. D. Stanley, H. McElderry, J. Koolman, and T. Mawani <b>Title:</b> Monitoring and controlling bycatch: a fishing industry generated solution
M:06	<b>Authors:</b> Christopher Zimmermann and Daniel Stepputtis <b>Title:</b> The Fehmarn Landing Obligation Study – a fundamentally new management approach to solve the discard problem
M:07	<b>Authors:</b> M.-J. Rochet, E. Benoît and J. S. Collie <b>Title:</b> Is selective fishing more harmful to marine communities than even exploitation? Theoretical investigations
M:08	<b>Authors:</b> Clara Ulrich <i>et al.</i> <b>Title:</b> Reconciling single-species management objectives in an integrating framework for avoiding overquota catches : main outcomes of the AFRAME project.
M:09	<b>Authors:</b> Dorleta Garcia, Raul Pallezo, Marina Santurtun and Luis Arregi <b>Title:</b> Technological changes in the framework of the Northern Hake Long Term Management Plan
M:10	<b>Authors:</b> Carmen Fernandez, Santiago Cerviño, Nelida Perez, and Ernesto Jardim <b>Title:</b> Stock assessment incorporating discards estimates in some years and implications for prediction of future stock trajectories
M:12	<b>Authors:</b> Glenn Chamberlain <b>Title:</b> A system for sampling and observing catches
M:13	<b>Authors:</b> N. Campbell, S. Holmes, C. Main, P. Fernandes, N. Bailey, and K. Barratt <b>Title:</b> Using VMS and Fishery Data in a Real Time Closure Scheme to Reduce Cod Mortality and Cut Discards.
M:15	<b>Authors:</b> Alan C. Haynie <b>Title:</b> From mobile closures to individual incentives: Chinook salmon bycatch reduction efforts in the Bering Sea pollock fishery
M:16	<b>Authors:</b> Maria Tenningen, Aud Vold, and Jostein Saltskår <b>Title:</b> Mortality of North Sea herring that is crowded and subsequently slipped from a purse seine
M:17	<b>Authors:</b> Adam Barkley and Steve Cadrin

	<b>Title:</b> Mitigating bycatch with spatial and temporal hotspot avoidance using patterns in discard mortality rate
M:18	<b>Authors:</b> Ólafur Arnar Ingólfsson and Haraldur Arnar Einarsson
	<b>Title:</b> The effect of hook- and bait sizes on size selection of Cod, Haddock and Wolffish in longline fisheries
M:19	<b>Authors:</b> D. Rihan, D Browne, and D. McDonald
	<b>Title:</b> Celtic Sea cod – Gear Based Technical Measures to help reduce discarding
M:20	<b>Authors:</b> Oleg M. Lapshin, Kristian Zachariassen, Viacheslav A. Tatarnikov, and Jan Arge Jacobsen
	<b>Title:</b> Avoidance of unwanted bycatch in the blue whiting fishery in Faroese Fishing Zone by use of a sorting grid system
M:21	<b>Authors:</b> Emmet H. Jackson, Coilin Minto, Daniel McDonald and Dominic Rihan
	<b>Title:</b> Bycatch amelioration using Cutaway trawls in the Celtic Sea <i>Nephrops</i> fishery
M:22	<b>Authors:</b> Ole R. Eigaard and J. Rasmus Nielsen
	<b>Title:</b> By-catch reduction in a small meshed North sea trawl fishery through gear developments
<b>Posters</b>	
M:11	<b>Authors:</b> S. Brooke, W. Karp, and L. Desfosse
	<b>Title:</b> Evaluating the quality of bycatch data and bycatch estimates across disparate fisheries
M:14	<b>Authors:</b> Jens Ulleweit, Kay Panten, Christoph Stransky
	<b>Title:</b> Discards in the fisheries under German flag: Results from 7 years of National Data Collection in the North Sea and North Atlantic
M:23	<b>Authors:</b> Matt K. Broadhurst, Sebastian S. Uhlmann, Russell B. Millar, and Craig P. Brand
	<b>Title:</b> Maximising the survival of bycatch discarded by commercial estuarine fishers in New South Wales, Australia
M:24	<b>Authors:</b> E.V. Gusev, K. M. Sokolov, and K. V. Drevetnyak
	<b>Title:</b> The Russian experience of using at-sea observer data for estimation of discards in the Barents Sea
M:25	<b>Authors:</b> Susanna Piovano, Yonat Swimmer, and Cristina Giacoma
	<b>Title:</b> Circle hooks as a mitigation measure for loggerhead sea turtles bycatch in the Mediterranean Sea
M:26	<b>Authors:</b> Yonghae Kim and Daesung Whang
	<b>Title:</b> Active fluttering net panel or rope array inside cod-end to increase selectivity
M:27	<b>Authors:</b> M. Viana, J. C. Wilson, and A. L. Jackson
	<b>Title:</b> Basis for a Bayesian Approach to Fisheries Discards
M:28	<b>Authors:</b> Pérez Nélica and Rosa Fernández
	<b>Title:</b> Strategic Spanish Project relating responsible fishing on discard reduction (REDES)
M:29	<b>Authors:</b> T. L. Catchpole, R. Enever, A. Revill, A. Reese, and D. Maxwell
	<b>Title:</b> A Discard Index for the English and Welsh fishing fleet

M:30	<b>Authors:</b> Paulo Fonseca, Aida Campos, Joaquim Parente, and Victor Henriques
	<b>Title:</b> Trawl modifications to avoid by-catch and discards onboard Portuguese crustacean trawlers - a review
M:31	<b>Authors:</b> Xulio Valeiras, José María Bellido, Nélica Pérez, Hortensia Araujo, and Juan Santos
	<b>Title:</b> Discarding patterns of Henslowi crab <i>Polybius henslowi</i> (Leach, 1820) by the Galician and Cantabrian (North Spain) trawl fisheries
M:32	<b>Authors:</b> Richard Briggs
	<b>Title:</b> Discard reduction in the Northern Ireland Nephrops fishery
M:33	<b>Authors:</b> Juan Santos, Javier Roca, Xulio Valeiras, Hortensia Araujo, and Nélica Pérez
	<b>Title:</b> Bootstrap based methods for estimating edge and dispersion parameters at minimum level of discard sampling strata
M:34	<b>Authors:</b> Agnes C. Gundersen and James Kennedy
	<b>Title:</b> Bycatch in the Greenland halibut fishery in East Greenland
M:35	<b>Authors:</b> Ólafur Arnar Ingólfsson
	<b>Title:</b> Species selective Nephrops trawling: Icelandic grid experiments

### Theme Session N

#### Quality and precision of basic data underlying fish stock assessment and implications for fisheries management advice

Conveners: Philippe Moguedet (European Commission), E. Jardim (Portugal), and Nadia Bouffard (Canada)

#### Papers/Oral presentations

Code	Author(s) and title
N:01	<b>Authors:</b> J. H. Vølstad, D. Skagen, S. Aanes, and M. Pennington
	<b>Title:</b> Evaluating the effects of uncertainty in age-length keys and tuning indices on analytical assessment and quota recommendations for fish stocks
N:02	<b>Authors:</b> David Hirst, Hanne Rognebakke, and Geir Storvik
	<b>Title:</b> A Bayesian hierarchical approach to estimating landings- and discards-at-age.
N:03	<b>Authors:</b> Anna Cheilari and Hans-Joachim Rätz
	<b>Title:</b> The effect of Mortality on the estimation of stock state parameters and derived references for sustainable fisheries management
N:04	<b>Authors:</b> Joël Vigneau
	<b>Title:</b> COST : A generic tool for raising and estimating the properties of statistical estimates in fisheries data.
N:05	<b>Authors:</b> Paul Spencer, Dana Hanselman, and Denise McKelvey
	<b>Title:</b> Trawl survey designs for reducing uncertainty in biomass estimates for patchily-distributed species

N:06	<b>Authors:</b> Kjell Nedreaas, Christoph Stransky, Ernesto Jardim, and Jo Vigneau
	<b>Title:</b> Quality assurance framework – the concept of quality assurance applied to fisheries data and its operationalisation under the ICES scope.
N:07	<b>Authors:</b> Gottfried Pestal and Tatiana Tunon
	<b>Title:</b> Scaling up and Drilling Down: Tracing data issues for Fraser River sockeye ( <i>Oncorhynchus nerka</i> ) from spawning sites to management aggregates and back
N:08	<b>Authors:</b> M. Pilar Tugores, Joan Miquel, Dolores Oñate, Núria Díaz, and Magdalena Iglesias
	<b>Title:</b> Sampling uncertainty associated with western Mediterranean pelagic fish abundance estimates derived from acoustic data
N:09	<b>Authors:</b> Ernesto Jardim, William James McCurdy <i>et. al.</i>
	<b>Title:</b> WebGR – storing images of biological material and creating a framework to promote the implementation of sound statistical analysis in age calibration
N:10	<b>Authors:</b> Y. Yuan, D. L. Borchers, E. D. Clarke, and P. G. Fernandes
	<b>Title:</b> Estimation of Monkfish Absolute Abundance from Trawl Surveys
N:11	<b>Authors:</b> Bruno Caneco, Carmen Fernandez, David Borchers, and Alexandra Silva
	<b>Title:</b> A modelling framework for incorporating uncertainty from catch sampling into inputs and outputs of stock assessment models
N:12	<b>Authors:</b> S. Kasatkina and P.Gasyukov
	<b>Title:</b> Quality of abundance indices based on international acoustic surveys in context of input data for stock-assessment models: example of Baltic International Acoustic Surveys.
N:13	<b>Authors:</b> Ramiro Castillo Valderrama, and Francois Gerlotto
	<b>Title:</b> Statistical variability of Peruvian anchovy's abundance for acoustics between the years 2000–2008
N:14	<b>Authors:</b> H. McElderry, R. D. Stanley, and A. Fedoruk
	<b>Title:</b> Robust, cost-effective fisheries catch and discard data with the integration of fishing logbooks, video-based monitoring, and offload monitoring.
N:15	<b>Authors:</b> Georgs Kornilovs, Jon Helge Vølstad, Daniel Stepputtis, Dankert Skagen, and Tiit Raid
	<b>Title:</b> Do the regular age reading excercises improve the quality of assessments? The case of Baltic herring.
N:16	<b>Authors:</b> Ignacio Payá
	<b>Title:</b> Augmentation of length sampling using production by commercial size categories in the <i>Loligo gahi</i> fishery off the Falkland Islands: A simple hierarchical Bayesian model.
N:17	<b>Withdrawn</b>
N:18	<b>Authors:</b> Jørgen Dalskov, Lotte Kind-Larsen, and Eskild Kirkegaard
	<b>Title:</b> Fully documented fishery – using Electronic Monitoring to improve industry self-reported data
N:19	<b>Authors:</b> Vaishav Soni, Henrik Sparholt, and Neil Holdsworth
	<b>Title:</b> Analysis of intrinsic uncertainty in survey indices in DATRAS
N:20	<b>Authors:</b> Vaishav Soni, Henrik Sparholt, and Neil Holdsworth

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**Title:** Quality assurance in DATRAS: quality control, validation and data flagging functionality

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### Posters

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N:21	<b>Authors:</b> Noel Cadigan
	<b>Title:</b> Incorporating survey variance in sequential population analysis
N:22	<b>Authors:</b> Pascal Lorance, Phil A. Large, Ragnar Arnason, Richard Hillary, Guzman Diez, Birkir Bardarson, Fernando González-Costas, Rudy Cloete, and Leonie Dransfeld
	<b>Title:</b> DEEPFISHMAN: Management And Monitoring Of Deep-sea Fisheries And Stocks
N:23	<b>Authors:</b> Margaret Bell
	<b>Title:</b> Minimum Sampling Programmes - How to deal with a plethora of different protocols.
N:24	<b>Authors:</b> Lotte Worsøe Clausen and William James McCurdy
	<b>Title:</b> ICES calibration workshops – extracting the juice from bonny structures and gonads.
N:25	<b>Authors:</b> M. P. Sampedro, A. C. Fariña, I. González Herraiz, R. Morlán, G. Costas, L. Cañas
	<b>Title:</b> Sources of uncertainty in fishing effort estimation procedures: the case of northwestern Spain fleets
N:26	<b>Authors:</b> J. E. Skjæraasen, J. Kennedy, R. D. M. Nash, A. Thorsen, and O. S. Kjesbu
	<b>Title:</b> The incidence of skipped spawning in Northeast Arctic gadoids
N:27	<b>Authors:</b> Michael Pennington, Joel Vigneau, and Jon Helge Vølstad
	<b>Title:</b> A framework for improving accuracy in fisheries data used in stock assessments
N:28	<b>Withdrawn</b>

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### Theme Session O

#### Experiences in including economic and social information to fisheries analysis and advice: why, how and by whom?

Conveners: Sakari Kuikka (Finland), Alyne Delaney (Denmark), and Rita Curtis (USA), and Anthony T. Charles IIFET, Canada

#### Papers/Oral presentations

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Code	Author(s) and title
O:01	<b>Authors:</b> Troels Jacob Hegland and Douglas Clyde Wilson
	<b>Title:</b> Participatory Modelling in EU Fisheries Management: Western Horse Mackerel and the Pelagic RAC
O:02	<b>Authors:</b> L. van Hoof
	<b>Title:</b> The Endangered Community:Analysing societal impacts of fisheries management
O:03	<b>Authors:</b> L. Richard Little <i>et al.</i>

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	<b>Title:</b> A model for simulating trading of fisheries quota
O:04	<b>Authors:</b> Doug Wilson <b>Title:</b> Policy Uptake of Social Science Knowledge: What can Social Scientists learn from the natural scientists' experience?
O:05	<b>Authors:</b> Ayoe Hoff, Hans Frost, and Clara Ulrich Rescan <b>Title:</b> The FcubEcon model
O:06	<b>Authors:</b> Dorleta Garcia and Raúl Prellezo <b>Title:</b> Northern Hake Long Term Management Plan Evaluation including fishermen reaction to Management Advice and Enforcement Strategy
O:07	<b>Authors:</b> Philippe E. Ziegler <b>Title:</b> Modelling the fleet dynamics of a small-scale mixed fishery
O:08	<b>Authors:</b> M.-J. Rochet, F. Daurès, S. van Iseghem, and V. M. Trenkel <b>Title:</b> The joint dynamics of fish stocks and fishing fleets: testing hypotheses in the Bay of Biscay
O:09	<b>Authors:</b> Yoshitaka Ota, Ludovic Dupuis, and Roger Just <b>Title:</b> Mapping for Reasons: combining social research and GIS mapping of fishing locations to understand behavioral pattern of small scale fisheries in the Dover Strait, UK/France.
O:10	<b>Authors:</b> Robert Arlinghaus, Malte Dorow, Ben Beardmore, and Wolfgang Haider <b>Title:</b> A novel survey method to assess fisheries stakeholders' preferences and support for policies to conserve European eel ( <i>Anguilla anguilla</i> L.)
O:11	<b>Authors:</b> F. Daurès, S. van Iseghem, E. Leblond, and C. Brigaudeau <b>Title:</b> Assessing the economic viability of the French fishing fleets in the Bay of Biscay from 2000–2007
O:12	<b>Authors:</b> Samu Mäntyniemi, Päivi Haapasaari, and Sakari Kuikka <b>Title:</b> Incorporating stakeholders' knowledge to stock assessment: how?
O:13	<b>Authors:</b> Päivi Haapasaari, Samu Mäntyniemi, and Sakari Kuikka <b>Title:</b> Participatory modelling to enhance understanding and consensus within fisheries management
O:14	<b>Authors:</b> Polina Levontin, Soile Kulmala, Päivi Haapasaari, and Katja Parkkila <b>Title:</b> Synthesising biological, economic and sociological knowledge using Bayesian Belief Networks to support broadly based fisheries policy: the case of devising a new Baltic salmon management plan
O:15	<b>Authors:</b> Michael J. Wilberg, Thomas F. Ihde, David H. Secor, and Thomas J. Miller <b>Title:</b> FishSmart: A stakeholder-centered approach to improve fisheries conservation and management
O:16	<b>Authors:</b> Mika Rahikainen, Marko Lindroos, and Veijo Kaitala <b>Title:</b> Implications of fishing cost information asymmetry in a non-cooperative fishery: strategic signalling versus biased knowledge
O:17	<b>Authors:</b> Ralf Döring

	<b>Title:</b> Fisheries economics and long-term management plans
O:18	<b>Withdrawn</b>
O:19	<b>Authors:</b> Anthony Charles <b>Title:</b> Integrated Bio-Socio-Economic Analysis and Advice for Fishery Management: A Reflection
O:20	<b>Authors:</b> Alan C. Haynie <b>Title:</b> The design of hybrid individual incentive mechanisms for bycatch reduction
O:21	<b>Withdrawn</b>
O:22	<b>Authors:</b> Malte Dorow, Ben Beardmore, Wolfgang Haider, and Robert Arlinghaus <b>Title:</b> What would be the economic consequences of altered recreational eel ( <i>Anguilla anguilla</i> ) angling regulations in light of the European eel recovery action plan?
O:23	<b>Withdrawn</b>
O:24	<b>Authors:</b> K. Hamon, L. R. Little and O. Thebaud <b>Title:</b> Modelling fishing exploitation with individual level socio-economic information in the Tasmanian rock lobster fishery.
O:25	<b>Authors:</b> R. Aps, H. Lassen, and I. Liiv <b>Title:</b> Baltic Sea Regional Advisory Council as facilitator between science, industry and policy
O:26	<b>Authors:</b> Dorothy J. Dankel, Nikki Jacobson, Dan Georgianna, and Steven X. Cadrin <b>Title:</b> Holistic evaluation of management strategies: Can gear modification increase haddock yield within legal constraints?
O:27	<b>Authors:</b> Beatriz Mendes, Paulo Fonseca, Aida Campos, Tereza Pilar-Fonseca, and Manuel Afonso-Dias <b>Title:</b> Fleet spatial dynamics in Portuguese fish trawlers - modelling the individual decision to return to previous fishing grounds
O:28	<b>Authors:</b> Dorothy Jane Dankel, Mikko Heino, and Ulf Dieckmann <b>Title:</b> Scientists as facilitators: An objective technique to illustrate a zone of stakeholder consensus
O:29	<b>Authors:</b> Tereza Pilar-Fonseca, Aida Campos, Manuel Afonso-Dias, and Paulo Fonseca <b>Title:</b> Fleet segmentation of the Portuguese coastal trawl fishery: a contribution to fisheries management
O:30	<b>Authors:</b> Leyre Goti <b>Title:</b> Potential of further economic and social information to re-rank the management options evaluated by natural sciences: the case of the Basque fleets in the Bay of Biscay
O:31	<b>Withdrawn</b>
O:32	<b>Authors:</b> Nikki Jakobson and Steve Cadrin <b>Title:</b> Bio-economic Expectations for New England Groundfish
O:33	<b>Authors:</b> Sigrid Lehuta, Stéphanie Mahévas, Pierre Petitgas, Pascal Le Floc'h, Dominique Pelletier, Paul Marchal, and Etienne Rivot <b>Title:</b> Fishery-based indicators of management impact: assessing relevance and robustness using a bio-economic simulation model

## Poster

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- O:34 **Authors:** Tatiana Tunon and Gottfried Pestal
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- Title:** Sequential elimination: Using a combination of data and process to choose robust harvest control rules for Fraser River sockeye (*Oncorhynchus nerka*).
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## Theme Session P

### Ecological foodweb and network analysis: a tool for ecosystem-based management?

Conveners: Andrea Belgrano (Sweden), Christian Möllmann (Germany), and Ulrich Brose (Germany).

### Papers/Oral presentations

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Code	Author(s) and title
P:01	<b>Authors:</b> Steele, Gifford, Collie
	<b>Title:</b> Using food web scenarios to estimate fisheries yields on Georges Bank
P:02	<b>Authors:</b> V. M Trenkel and M.J. Rochet
	<b>Title:</b> Qualitative food-web modelling for predicting the joined directions of change of population and community indicators: identifying dominant pressures as a step towards an EAF
P:03	<b>Authors:</b> Alexander Kempf, Jens Floeter, and Axel Temming
	<b>Title:</b> Predator-prey overlap induced Holling type III functional response in the North Sea fish assemblage
P:04	<b>Authors:</b> M. T. Tomczak, J. J. Heymans, T. Blenckner, and S. Niiranen
	<b>Title:</b> Ecological Network Analysis, indicators of food-web changes in the Baltic Sea
P:05	<b>Withdrawn</b>
P:06	<b>Authors:</b> Melen Leclerc and Didier Gascuel
	<b>Title:</b> The Trophic Spectrum : a tool for assessing the effects of fishing on marine ecosystems at a global scale.
P:07	<b>Authors:</b> Jens Floeter and Christian Möllmann
	<b>Title:</b> Decadal variability in the structure and functioning of the North Sea and Baltic Sea food webs - Decadal variability in the structure and functioning of the North Sea and Baltic Sea food - changes or replacements ?
P:08	<b>Authors:</b> Joël M. Durant, Dag Ø. Hjermmann, and Nils Chr. Stenseth
	<b>Title:</b> Reversing the Match-mismatch relationship: the prey point of view
P:09	<b>Authors:</b> Soledad Lorena Diodato, Mónica Susana Hoffmeyer, and Florencia Biancalana
	<b>Title:</b> Grazing pressure of mesozooplankton under anthropogenic impact in Ushuaia Bay, Argentina
P:10	<b>Authors:</b> Axel G. Rossberg and Dave Reid
	<b>Title:</b> Food-web models as tools for ecosystem-based management

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P:11 **Authors:** Ute Jacob  
**Title:** Ecological Marine Network Structure, Functional Roles & Species Identity –What matters most?

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P:12 **Authors:** Dimitrios K. Moutopoulos, Simone Libralato, Cosimo Solidoro, and Konstantinos I. Stergiou  
**Title:** A Mass-Balance Ecopath Model of Greek Ionian Sea (E Mediterranean): A preliminary approach

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### Posters

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P:13 **Authors:** Mbiye Kalumbu Bienvenu  
**Title:** Ecological food web and network analysis: a tool for ecosystem-based management

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P:14 **Authors:** Rickard Degerman and Robert Lefébure  
**Title:** Climate induced alterations of dissolved organic carbon levels in the Baltic Sea pelagic system; implications on food web efficiency and fish production

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P:15 **Authors:** Jari-Pekka Pääkkönen, Ilppo Kajaste, Marjut Räsänen, and Katja Pellikka  
**Title:** Long-term changes in the state of the coastal ecosystem in the Gulf of Finland

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### Theme Session Q

#### Interactions between aquaculture and wild stocks: comparative experiences for Atlantic cod and Atlantic salmon

Conveners: Edward Trippel (Canada), Terje Svåsand (Norway), and Einar Nielsen (Denmark)

### Papers/Oral presentations

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Code	Author(s) and title
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Q:01 **Authors:** Sten Karlsson, Thomas Moen, and Kjetil Hindar  
**Title:** A set of Single Nucleotide Polymorphism (SNP) loci for generic distinction of Norwegian farm and wild Atlantic salmon

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Q:02 **Authors:** Pål Arne Bjørn, Ingebrigt Uglem, Trine Dale, Sven Kerwath, Finn Økland, Rune Nilsen, Kåre Aas, Ian Fleming, and Robert Scott McKinley  
**Title:** Movements and spatiotemporal distribution of escaped farmed and local wild Atlantic cod (*Gadus morhua* L.)

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Q:03 **Authors:** Ingebrigt Uglem, Tim Dempster, Pål-Arne Bjørn, Pablo Sanchez-Jerez, and Finn Økland  
**Title:** High connectivity of salmon farms revealed by aggregation, residence and repeated movements of wild fish among farms

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Q:04 **Authors:** Jeffrey A. Hutchings  
**Title:** Adaptive phenotypic plasticity in Atlantic salmon and Atlantic cod and its relevance to risk assessments of aquaculture

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Q:05	<b>Authors:</b> E. Verspoor, D. Knox, and S. Marshall
	<b>Title:</b> Assessment of the Direct Genetic Impacts of Escaped Farm Salmon: a retrospective study of a wild Scottish stock
Q:06	<b>Authors:</b> Simon R. M. Jones and N. Brent Hargreaves
	<b>Title:</b> Estimating salmon louse ( <i>Lepeophtheirus salmonis</i> ) associated mortality among juvenile pink salmon ( <i>Oncorhynchus gorbuscha</i> ) in western Canada
Q:07	<b>Authors:</b> Edward A. Trippel and Steven R. Neil
	<b>Title:</b> Spawning Success of Farmed Atlantic Cod ( <i>Gadus morhua</i> ): Effects of Photoperiod on Gonad Development in Sea Cages in Eastern Canada
Q:08	<b>Withdrawn</b>
Q:09	<b>Authors:</b> J. E. Skjæraasen, J. J. Meager, and A. Fernö
	<b>Title:</b> The risk of genetic introgression from farmed escapees to wild cod populations
Q:10	<b>Authors:</b> P. McGinnity J. Carlsson, J. Coughlan, E. Dillane, E. deEyto, Andy Ferguson, P. Prodohl, and T. F. Cross
	<b>Title:</b> Possible genetic interactions between reared strains and wild populations of cod <i>Gadus morhua</i> : relevance of findings from salmon <i>Salmo salar</i> common-garden field experiments
Q:11	<b>Authors:</b> Tillmann J. Benfey
	<b>Title:</b> Triploid Atlantic salmon: current status and future prospects
Q:12	<b>Authors:</b> K. E. Jørstad, T. van der Meeren, G. Dahle, O. L. Paulsen, T. Svåsand, and H. Otterå
	<b>Title:</b> The use of genetic tagging to study interaction between farmed and wild cod stocks
Q:13	<b>Authors:</b> Nathaniel J. Feindel, Edward A. Trippel, and Tillmann J. Benfey
	<b>Title:</b> Competitive Spawning of Male Triploid Atlantic Cod ( <i>Gadus morhua</i> ) and the Early Life History Performance of their Offspring
Q:14	<b>Authors:</b> Geir Dahle, Knut Jørstad, Torild Johansen, Jon-Ivar Westgård, Halvor Knutsen, and Kevin Glover
	<b>Title:</b> Genetic assignment as a tool to identify the origin for Atlantic cod ( <i>Gadus morhua</i> ) escapees in Norwegian fjords
Q:15	<b>Authors:</b> I. A. Fleming
	<b>Title:</b> Cultural invasions: understanding the potential for, and implications of fish escapes from aquaculture.
Q:16	<b>Authors:</b> Richard J. Beamish
	<b>Title:</b> Pacific salmon and farmed salmon on the Pacific coast of Canada
Q:17	<b>Authors:</b> Einar E. Nielsen <i>et al.</i>
	<b>Title:</b> Genomic signatures of local adaptation in natural populations of Atlantic cod: implications for interactions between aquaculture and wild cod populations
<b>Posters</b>	
Q:18	<b>Authors:</b> Svein-Erik Fevolden, Jon-Ivar Westgaard, and Jørgen Schou Christiansen
	<b>Title:</b> Culture of Atlantic cod ( <i>Gadus morhua</i> ) in the vicinity of major spawning sites for NE Arctic cod and Norwegian coastal cod populations - is it hazardous?

Q:19	<b>Withdrawn</b>
Q:20	<b>Withdrawn</b>
Q:21	<b>Authors:</b> Nathaniel J. Feindel, Edward A. Trippel, and Tillmann J. Benfey <b>Title:</b> Oogenesis and Spermatogenesis of Triploid Atlantic Cod ( <i>Gadus morhua</i> )
Q:22	<b>Authors:</b> Paul V. Debes, Eric Normandeau, Louis Bernatchez and Jeffrey A. Hutchings <b>Title:</b> Transcriptional differences between domesticated and wild Atlantic salmon ( <i>Salmo salar</i> ) in different environments

## Theme Session R

### Potential changes in the EU common fisheries policy: implications for science

Conveners: Poul Degnbol (European Commission) and Martin Pastoors (the Netherlands)

#### Papers/Oral presentations

Code	Author(s) and title
R:01	<b>Authors:</b> Jesper Raakjær <b>Title:</b> A fisheries management system in crisis - the EU Common Fisheries Policy
R:02	<b>Authors:</b> Richard Curtin and Raúl Prellezo <b>Title:</b> Are we in the position of understanding marine ecosystem based management? A literature review.
R:03	<b>Authors:</b> Paul Marchal and Rich Little <b>Title:</b> TAC allocation and catch-quota balancing in mixed-fisheries: a bio-economic modelling approach TAC allocation and catch-quota balancing in mixed-fisheries: applied to the Channel flatfish fisheries
R:04	<b>Authors:</b> Stuart A. Reeves, Andrew S. Revill, and John, K. Pinnegar <b>Title:</b> The past, present and future of technical measures in the Common Fisheries Policy.
R:05	<b>Authors:</b> Maria Hadjimichael, Gareth Edwards-Jones, and Michel Kaiser <b>Title:</b> Importance of regionalization: policy, enforcement and culture as evidence of the north/south divide in the European Union fish catching sector
R:06	<b>Authors:</b> Clara Ulrich <i>et al.</i> <b>Title:</b> Potentials and challenges in fleet- and métier- based approaches for fisheries management in the CFP
R:07	<b>Authors:</b> Ingolf Røttingen and Sigurd Tjelmeland <b>Title:</b> Towards a MSY-based management of Barent Sea Capelin in an ecosystem context
R:08	<b>Authors:</b> Sakari Kuikka <b>Title:</b> Some scientific challenges related to Common Fisheries Policy
R:09	<b>Withdrawn</b>

R:10	<b>Authors:</b> R. Aps and H. Lassen
	<b>Title:</b> EU Common Fisheries Policy reform: co-production of science and policy
R:11	<b>Authors:</b> Aukje Coers, Jesper Raakjær, and Christian Olesen
	<b>Title:</b> What should be the role of the RAC's in the future: A case study of the Pelagic RAC - Lessons learnt and future directions.
R:12	<b>Authors:</b> Hendrik Dörner, Hans-Joachim Rätz, Robert Scott, and Thomas Barbas
	<b>Title:</b> From science to management: the conceptual roles of European and national institutions under CFP and MSFD regarding living marine resources
R:13	<b>Authors:</b> C. Pita, G. J. Pierce, and I. Theodossiou
	<b>Title:</b> Stakeholders' participation in the decision-making process: Scottish inshore fishers' perceptions of involvement
R:14	<b>Authors:</b> Søren Anker Pedersen, Hans Frost, and Hans Lassen
	<b>Title:</b> Assessing impacts of commercial fishing on selected ecosystem services in European waters – results of a scoping study
R:15	<b>Withdrawn</b>
R:16	<b>Authors:</b> Martin Pastoors and Luc van Hoof
	<b>Title:</b> Opening up the box: Governance and the evaluation of fisheries policy
R:17	<b>Authors:</b> Marion Dreyer, Kjellrun Hiis Hauge, and Martin Pastoors
	<b>Title:</b> Addressing uncertainty to facilitate participatory governance
R:21	<b>Author:</b> Didier Gascuel
	<b>Title:</b> Sifting to the MSY: only a first step for changing the EU common common fisheries policy and implementing the ecosystem approach to fisheries
<b>Posters</b>	
R:18	<b>Withdrawn</b>
R:19	<b>Authors:</b> Aida Campos, Victor Henriques, Paulo Fonseca, and Joaquim Parente
	<b>Title:</b> Integration of scientific inputs to assist sustainable management in Portuguese coastal fisheries: a perspective
R:20	<b>Authors:</b> A. Uriarte, P. Abaunza, O. Guyader, L. Ibaibarriaga, S. Sanchez, L. Pawlowski, R. Pallezo, B. Roel, I. del Valle, Y. Vermard, and B. Villamor
	<b>Title:</b> Developing a Management Plan for the Anchovy Fishery in the Bay of Biscay

## Theme Session S

### Presenting scientific and advisory results: best practices

Conveners: Sarah Kraak (Ireland) and Martin Pastoors (the Netherlands)

#### Papers/Oral presentations

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Code	Author(s) and title
S:01	<b>Authors:</b> Sarah L. Hughes and N. Penny Holliday <b>Title:</b> The ICES Report on Ocean Climate : Presenting the very latest information of the status and trends of sea temperature and salinity in the ICES Area of the North Atlantic and Nordic Seas.
S:02	<b>Authors:</b> James R. Weinberg <b>Title:</b> Presenting stock assessment results to fishery management councils and the public in the Northeast Region of the United States
S:03	<b>Authors:</b> Gottfried Pestal and Tatiana Tunon <b>Title:</b> Lecture, sales pitch, or InfoVis? Communicating the elements of decisions under uncertainty to support stakeholder processes.
S:04	<b>Authors:</b> Jake Rice <b>Title:</b> Communicating science advice to diverse clients; experiences in North America and Europe

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#### Posters

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S:05	<b>Authors:</b> Christopher Zimmermann, Martin Pastoors, Neil Holdsworth and the ACOM subformat group <b>Title:</b> Making ICES advice easier to understand and to produce: A new concept for the presentation of single stock information
S:06	<b>Withdrawn</b>

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## Theme Session T

### Death in the sea - Mortality in the zooplankton and early-life stages of marine fish (estimates, processes and outcomes)

Conveners: Alejandro Gallego (UK), Edward D. Houde (USA), and Elizabeth W. North (USA)

#### Papers/Oral presentations

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Code	Author(s) and title
T:01	<b>Authors:</b> W. C. Gentleman, and P. Pepin <b>Title:</b> Improving confidence in copepod mortality estimates: Choosing formulas and quantifying errors
T:02	<b>Authors:</b> Marc Hufnagl, Axel Temming, Volker Siegel, Ingrid Tulp, and Loes Bolle

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	<b>Title:</b> An evaluation of various models for the estimation of total mortality from length frequency distribution data confronted with seasonal variability in growth, recruitment and mortality.
T:03	<b>Authors:</b> T. Kristiansen, C. Jørgensen, R.G. Lough, F. Vikebø, and Ø. Fiksen
	<b>Title:</b> Modeling rule-based behavior: habitat selection and the growth-survival trade-off in larval cod
T:04	<b>Authors:</b> Zeren Gurkan, Asbjorn Christensen, and Henrik Mosegaard
	<b>Title:</b> Individual-based modeling of growth and survival of Atlantic Cod and Lesser Sandeel larval and juvenile stages
T:05	<b>Authors:</b> Kirstin Eliassen, Jákup Reinert, Eilif Gaard, Peter Grønkjær, and Jens Tang Christensen
	<b>Title:</b> Mortality of juvenile sandeel on the Faroe Shelf due to food limitation
T:06	<b>Authors:</b> Susan Mærsk Lusseau, Emma M. C. Hatfield, Jens Rasmussen, Alejandro Gallego, and Mike R. Heath
	<b>Title:</b> Over-winter survival of larval herring in the northern North Sea can be related to food intake
T:07	<b>Authors:</b> Stefan Meyer, Helena M. Hauss, Philip Kanstinger, Myron A. Peck, and Josianne G. Støttrup
	<b>Title:</b> Live and let die – condition indices and starvation-induced mortality thresholds during the early life of marine fish
T:08	<b>Authors:</b> Colleen M. Petrik, Rubao Ji, Cabell S. Davis, R. Gregory Lough, and Trond Kristiansen
	<b>Title:</b> Modelling the sources of mortality for larval haddock on Georges Bank and their effects on behavior
T:09	<b>Authors:</b> Jun Shoji, Hikari Kinoshita, Yasuhiro Kamimura, and Ken-ichiro Mizuno
	<b>Title:</b> Cohort-specific mortality of black rockfish <i>Sebastes cheni</i> larvae and juveniles in the Seto Inland Sea: implications for conservation of seagrass and macroalgae habitats
T:10	<b>Authors:</b> Richard D. M. Nash, and Audrey J. Geffen
	<b>Title:</b> Mortality schedules in the early life-history phases of juvenile flatfish; European plaice ( <i>Pleuronectes platessa</i> L.) as a case study.
T:11	<b>Authors:</b> Mark R. Payne, Asbjørn Christensen, Peter Munk, Richard D. M. Nash, and Mark Dickey-Collas
	<b>Title:</b> The role of spatial processes in North Sea herring larval survival and recruitment.
T:12	<b>Authors:</b> P. Reglero, A. Urtizberea, Ø. Fiksen, I. A. Catalán, A. Pérez-Torres, and F. Alemany
	<b>Title:</b> Size-dependent predation in piscivorous larval stages of three tuna species
T:13	<b>Authors:</b> Claire B. Paris
	<b>Title:</b> Fate of reef fish larvae through ontogeny: advection or true mortality?
T:14	<b>Authors:</b> Joel K. Llopiz and Robert K. Cowen
	<b>Title:</b> The successful and selective feeding of larval fishes in the low-latitude open ocean: Is starvation an insignificant source of mortality?
T:15	<b>Withdrawn</b>

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T:16 **Authors:** Stéphane Plourde, Pierre Pepin, and Erica Head

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**Title:** Long-term seasonal and spatial patterns in mortality and survival of *Calanus finmarchicus* across the Atlantic Zone Monitoring Program region, Northwest Atlantic

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## Posters

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T:17 **Authors:** Zhygalova Natalia, Semenova Anna, and Rodyuk Galina

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**Title:** Occurrence of Ellobiopsis spp. (Myzozoa) in Copepoda from the Russian waters of the South Baltic Sea

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T:18 **Authors:** Semenova Anna, Aleksandrov Sergey, and Dmitrieva Olga

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**Title:** Influence of Cyanobacteria “blooming” on zooplankton in the Curonian Lagoon (the Baltic Sea)

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T:19 **Authors:** I. A. Catalán, J. Solé, D. Macías, J. Ruiz, J. Tintoré, and B. Morales-Nin

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**Title:** Coupling a coastal 3D hydrodynamic-biological model and an IBM to assess long-term effects of mesoscale variability on early life stages of European anchovy in the vicinity of the Gibraltar Strait

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T:20 **Authors:** Flemming T. Dahlke, Sebastian N. Politis, Myron A. Peck and Edward A. Trippel

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**Title:** Mortality and development during early life phases of Atlantic cod (*Gadus morhua*) in relation to paternity and water temperature

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