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## **Management Committee for the Advisory Process (MCAP)**

MCAP:01	RAC Dialogue meeting (20-21 February 2006)
MCAP:02	MCAP report from March 2006 meeting
MCAP:03	MCAP-MICC report from meeting (April 2006)
MCAP:04	Advisory Committee on Fisheries Management (ACFM) minutes from October 2005 meeting
MCAP:05	Advisory Committee on Ecosystems [ACE] minutes from May 2006 meeting
MCAP:06	Advisory Committee on Fisheries Management [ACFM] minutes from May 2006 meeting
MCAP:07	Advisory Committee on the Marine Environment [ACME] minutes from May 2006 meeting
MCAP:08	Minutes from the ACE Consultations 18 & 23 September 2006, Maastricht, Netherlands
MCAP:09	Minutes from the ACFM Consultations 18 & 23 September 2006, Maastricht, Netherlands
MCAP:10	Minutes from the ACME Consultations 18 & 21 September 2006, Maastricht, Netherlands
MCAP:11	Report of the Management Committee on the Advisory Process 17 & 24 September 2006, Maastricht, Netherlands

## **Advisory Committee on Fishery Management (ACFM)**

ACFM:01	Working Group on the Assessment of Southern Shelf Stocks of Hake, Monk and Megrin [WGHMM]
ACFM:02 Ref. G, H	Study Group on Ageing Issues in Baltic Cod [SGABC]
ACFM:03 Ref. G	Working Group Elasmobranch Fishes [WGEF]
ACFM:04	Working Group on the Assessment of Southern Shelf Demersal Stocks [WGSSDS]
ACFM:05	Northern Pelagic and Blue Whiting Fisheries Working Group [WGNPBW] August to
ACFM:06 Ref. D, G	ICES/NAFO Working Group on Harp and Hooded Seal [WGHARP] 3 September
ACFM:07 Ref. LRC, RMC	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources [WGDEEP]
ACFM:08	Working Group on the Assessment of Mackerel, Horse Mackerel and Anchovy [WGMHSA]
ACFM:09	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak [WGNSSK]
ACFM:10	<i>Pandalus</i> Assessment Working Group [WGPAND]
ACFM:11 Ref. G	Working Group on the Assessment of New MoU Species [WGNEW]
ACFM:12 RMC, FTC and LRC	Workshop on <i>Nephrops</i> Stocks [WKNEPH]
ACFM:13	Working Group on the Assessment of Northern Southern Shelf Demersal Stocks [WGNSSDS]
ACFM:14 Ref. RMC, LRC	Workshop on Simple Mixed Fisheries Management Models [WKIMIXMAN]
ACFM:15 Ref. RMC, LRC	Study Group on Management Strategies [SGMAS]

ACFM:16 Ref. DFC, LRC, RMC	ICES/EIFAC Working Group on Eels [WGEEL]
ACFM:17	Annual Meeting of Assessment Working Groups Chairs [AMAWGC]
ACFM:18	Planning Group on Commercial Catch, Discards and Biological Sampling [PGCCDBS]
ACFM:19	A Workshop on Biological Reference Points for Northeast Arctic Haddock [WKHAD]
ACFM:20	Herring Assessment Working Group south of 62° N [HAWG]
ACFM:21	Baltic Salmon and Trout Assessment Working Group [WGBAST]
ACFM:22 Ref. DFC, FTC, WGNAS	The Study Group on the Bycatch of Salmon in Pelagic Trawl Fisheries [SGBYSAL]
ACFM:23	Working Group on North Atlantic Salmon [WGNAS]
ACFM:24	Baltic Fisheries Assessment Working Group [WGBFAS]
ACFM:25	Arctic Fisheries Working Group [AFWG]
ACFM:26	North-Western Working Group [NWWG]
ACFM:27	The Fishery Statistics Liaison Working Group [WGSTAL]
ACFM:28	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources [WGDEEP]
ACFM:29	Working Group on the Assessment of Southern Shelf Stocks of Hake, Monk and Megrin [WGHMM]
ACFM:30	Working Group on the Assessment of Northern Shelf Demersal Stocks [WGNSDS]
ACFM:31 Ref. LRC	Working Group Elasmobranch Fishes [WGEF]
ACFM:32 Ref. RMC, LRC	ICES/NAFO Working Group on Harp and Hooded Seals [WGHARP]
ACFM:33	Working Group on the Assessment of Southern Shelf Demersal Stocks [WGSSDS]
ACFM:34	Northern Pelagic and Blue Whiting Fisheries Working Group [WGNPBW]
ACFM:35	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak [WGNSSK]
ACFM:36	Working Group on the Assessment of Mackerel, Horse Mackerel, Sardine and Anchovy [WGMHSA]
ACFM:37	<i>Pandalus</i> Assessment Working Group [WGPAND]
ACFM:38	Review Group on Fisheries Surveys of North Sea Stocks [RGFS]

#### **Advisory Committee on the Marine Environment (ACME)**

ACME:01	ACME report coded to MCAP
ACME:02	Joint ICES/OSPAR Workshop on Integrated Monitoring of Contaminants and their Effects in Coastal and Open-Sea Areas [WKIMON]
ACME:03	ICES/HELCOM Steering Group on Quality Assurance of Chemical Measurements in the Baltic Sea [STGQAC]
ACME:04	ICES/OSPAR/HELCOM Steering Group on Quality Assurance of Biological Measurements [STGQAB]
ACME:05	ICES Working Group on Introduction and Transfers of Marine Organisms [WGITMO]
ACME:06	ICES/IOC/IMO Working Group on Ballast and Other Ship Vectors [WGBOSV]

### **Advisory Committee on Ecosystems (ACE)**

ACE:01	ACE Report coded to MCAP
ACE:02	Study Group on Management of Integrated Data [SGMID]
ACE:03 Ref. ACFM, ACME	Working Group for Regional Ecosystem Description [WGRED]
ACE:04 Ref. LRC	Working Group on Deep-water Ecology [WGDEC]
ACE:05	Working Group on Ecosystem Effects of Fishing Activities [WGECO]
ACE:06	Working Group on Marine Mammal Ecology [WGMME]
ACE:07 Ref. MHC, OCC	Workshop co-sponsored by OSPAR on Time-Series Data relevant to Eutrophication Ecological Quality Objectives [WKEUT]
ACE:08 Ref. WGFAST	Study Group on Effects of Sound in the Marine Environment [SGESME]

### **Consultative Committee (CONC)**

CONC:01	CONC report coded to the Delegates and Bureau
CONC:02	Workshop on Review of the ICES Committee and Expert Group Performance [WKREP]

### **Baltic Committee (BCC)**

BCC:01 Ref. ACE	Study Group on Baltic Ecosystem Health Issues in support of the BSRP [SGEH]
BCC:02	ICES/BSRP Sea-going Workshop on Fish Disease Monitoring in the Baltic Sea [WKFDMM]
BCC:03	Study Group on Baltic Fish and Fisheries Issues in the BSRP [SGBFFI]
BCC:04	Study Group on Baltic Sea Productivity Issues in Support of the BSRP [SGPROD]
BCC:05	Study Group on Baltic Ecosystem Model Issues in Support of the BSRP [SGBEM]
BCC:06	Working Group on GEOHAB Implementation in the Baltic [WGGIB]
BCC:07	Study Group on Multispecies Assessment in the Baltic [SGMAB]
BCC:08	Study Group on Ageing Issues of Baltic Cod [SGABC]
BCC:09	ICES/BSRP/HELCOM Workshop on Developing a Framework for Integrated Assessment for the Baltic Sea [WKIAB]

### **Diadromous Fish Committee (DFC)**

DFC:01 Ref. BCC	Study Group on Salmon Age Determination (SGSAD)
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### **Fisheries Technology Committee (FTC)**

FTC:01	Working Group on Fisheries Acoustics, Science and Technology [WGFAST]
FTC:02, Ref. WGFAST	Study Group on Collection of Acoustic Data from Fishing Vessels [SGAFV]
FTC:03 Ref. MHC, ACE, WGFAST	Study Group on Acoustic Seabed Classification [SGASC]

FTC:04 Ref. SGUFM, WGFTFB and all stock assessment WGs	Workshop on Unaccounted Fishing Mortality [WKUFM 2]
FTC:05 Ref. LRC, RMC, WGFTFB, WGIBTS	Study Group on Survey Trawl Standardisation [SGSTS]
FTC:06	ICES/FAO Working Group on Fishing Technology and Fish Behaviour [WGFTFB]
FTC:07 Ref. WGFTFB	Study Group on Unaccounted Fishing Mortality [SGUFM]
FTC:08 Ref. BCC, WGFAST	Study Group on Target Strength Estimation in the Baltic Sea [SGTSEB]
FTC:09 Ref. WGFAST	Planning Group on the HAC Data Exchange Format [PGHAC]

### **Living Resources Committee (LRC)**

LRC:01 Ref. ACFM	Working Group on Acoustic and Egg Surveys for Sardine and Anchovy in ICES areas VIII and IX [WGACEGG]
LRC:02 Ref. RMC	Planning Group on North Sea Cod and Plaice Egg Surveys in the North Sea [PGEGBS]
LRC:03 Ref. WGNSSK, HAWG	Study Group on Recruitment Variability in North Sea Planktivorous Fish [SGRECVAP]
LRC:04 Ref. RMC, HAWG	Planning Group for Herring Surveys [PGHERS]
LRC:05 Ref. ACFM, ACE	Study Group of Regional Scale Ecology of Small Pelagic Fish [SGRESP]
LRC:06 Ref. RMC, DFC, ACE	Working Group on Fish Ecology [WGFE]
LRC:07 Ref. BCC, RMC	Baltic International Fish Survey Working Group [WGBIFS]
LRC:08 Ref. ACE, ACME	Working Group on Seabird Ecology [WGSE]
LRC:09 Ref. RMC	Working Group on Mackerel and Horse Mackerel Egg Surveys [WGMEGS]
LRC:10 Ref. FTC, ACFM	Working Group on <i>Crangon</i> Fisheries and Life History [WGCRAN]
LRC:11 Ref. RMC, ACFM	Working Group on Beam Trawl Surveys [WGBEAM]
LRC:12	Stock Identification Methods Working Group [SIMWG]
LRC:13 Ref. RMC	Study Group on the Biology and Life History of Crabs [SGCRAB]
LRC:14 Ref. ACFM, ACE	Working Group on Cephalopod Fisheries and Life History [WGCEPH]

LRC:15 Ref. RMC, SIMWG	Study Group on Stock Identity and Management Units of Whiting [SGSIMUW]
LRC:16	ICES/GLOBEC Workshop on Long-term Variability in SW Europe [WKLTVSWE]
LRC:17 Ref. WGMHSA	Workshop on Mackerel and Horse Mackerel Egg Staging and Identification [WKMHMES]
LRC:18 Ref. ACFM	Working Group on Acoustic and Egg Surveys for Sardine and Anchovy in ICES areas VIII and IX [WGACEGG]

### **Mariculture Committee (MCC)**

MCC:01 Ref. ACFM, MHC	Working Group on Pathology and Diseases of Marine Organisms [WGPDMO]
MCC:02	Working Group on Marine Shellfish Culture [WGMASC]
MCC:03 Ref. ACME	Working Group on Environmental Interactions of Mariculture [WGEIM]
MCC:04 Ref. ACME, ACE (WGECO), DFC	Working Group on the Application of Genetics in Fisheries and Mariculture [WGAGFM]
MCC:05 Ref. DFC, ACME	Working Group Marine Fish Welfare [WGMAFW]

### **Marine Habitat Committee (MHC)**

MHC:01 Ref. ACME	Working Group on Marine Sediments in Relation to Pollution [WGMS]
MHC:02 Ref. ACE	Working Group on the Statistical Aspects of Environmental Monitoring [WGSDEM]
MHC:03 Ref. OCC, ACME	Working Group on Marine Chemistry [MCWG]
MHC:04 Ref. ACME	Working Group on Biological Effects of Contaminants [WGBEC]
MHC:05 Ref. FTC, ACE	Working Group on Marine Habitat Mapping [WGMHM]
MHC:06	ICES Study Group on the North Sea Benthos Project 2000 [SGNSBP]
MHC:07 Ref. ACME	Working Group on the Effects of Extraction of Marine Sediments on the Marine Ecosystem [WGEXT]
MHC:08 Ref. ACME, ACE	Working Group on Integrated Coastal Zone Management [WGICZM]
MHC:09 Ref. ACE	Benthos Ecology Working Group [BEWG]
MHC:10	Workshop on Fisheries Management in Marine Protected Areas [WKFMMPA]

### **Oceanography Committee (OCC)**

OCC:01	Workshop on Indices of Meso-scale Structures in ICES waters [WKIMS]
OCC:02 Ref. ACME, ACE	Working Group on Phytoplankton Ecology [WGPE]
OCC:03 Ref. ACE	Working Group on Zooplankton Ecology [WGZE]

OCC:04 Ref. ACME	ICES-IOC Working Group on Harmful Algal Bloom Dynamics [WGHABD]
OCC:05	Workshop on Advancements in modelling physical-biological interactions in fish early-life history: recommended practices and future directions [WKAMF]
OCC:06 Ref. LRC, RMC, MHC, ACFM, ACME, ACE	Planning Group for the North Sea Pilot Project NORSEPP [PGNSP]
OCC:07	Working Group on Modelling Physical/Biological Interactions [WGPBI]
OCC:08 Ref. ACME, ACE	Working Group on Oceanic Hydrography [WGOH]
OCC:09 Ref. ACME, ACE	ICES-IOC Steering Group on GOOS [SGGOOS]
OCC:10	Working Group on Marine Data Management [WGMDM]
OCC:11	ICES/GLOBEC Working Group on Cod and Climate Change [WGCCC]
OCC:12 Ref. ACFM, ACE, RMC	Workshop on the Decline and Recovery of Cod Stocks throughout the North Atlantic including tropho-dynamic effects [WKDRCS]
OCC:13	Working Group on Recruitment Processes [WGRP]
OCC:14 Ref. Bureau	Steering Group for the ICES/GLOBEC North Atlantic Programme and Regional Office [SGNARO]

### **Resource Management Committee (RMC)**

RMC:01 Ref. LRC, ACFM	Workshop on Advanced Fish Stock Assessment Techniques [WKAFAT]
RMC:02	Study Group on Multispecies Assessments in the North Sea [SGMSNS]
RMC:03	International Bottom Trawl Survey Working Group [IBTSWG]
RMC:04 Ref. LRC, ACFM, ACE, ACME	Study Group on Risk Assessment and Management Advice [SGRAMA]
RMC:05	Working Group on Fishery Systems [WGFS]
RMC:06 Ref. ACFM, ACE	Regional Ecosystem Study Group for the North Sea [REGNS]
RMC:07 Ref. ACFM	Working Group on Methods on Fish Stock Assessments [WGMG]
RMC:08 Ref. LRC, ACFM, ACE	Planning Group on Northeast Atlantic Pelagic Ecosystem Surveys [PGNAPES] will meet in Reykjavik, Iceland, from 15–18 August 2006
RMC:09 Ref. NWWG, SGRS, AFWG, ACFM	Workshop on Age Determination of Redfish [WKADR] will be held from 28 August–1 September 2006 in Vigo, Spain
RMC:10	Study Group on Age-length Structured Assessment Models [SGASAM] will meet at ICES Headquarters from 27 November to 1 December 2006

## Contributions for the Theme Sessions

### Theme Session B

#### Large-scale changes in the migration of small pelagic fish and the factors modulating such changes

(Co-sponsored by PICES)

CM code	Authors and title
B:01	<i>Ken Cooke, John Holmes, Guy Fleischer, Rebecca Thomas, and Patrick Ressler</i> : Distributional changes observed in the geographic range of Pacific hake ( <i>Merluccius productus</i> ) in association with ocean conditions off the Pacific coast of Canada and the United States
B:02	<i>Rubén Rodríguez-Sánchez, Sofía Ortega-García, and Héctor Villalobos</i> : Pacific sardine ( <i>Sardinops caeruleus</i> ) around the southern tip of the Baja California peninsula, Mexico and its relation to the interannual variability of the California Current
B:03	<i>Nancy C. H. Lo</i> : Age-specific migration and availability of Pacific sardine ( <i>Sardinops sagax</i> ) off west coast of American continent
B:04	<i>Yoshiro Watanabe, Yoshioki Oozeki, and Hiroshi Nishida</i> : Expansion and contraction of spawning ground of Japanese sardine in the last 25 years with resurgence and collapse of the spawning biomass
B:05	<i>Alla Galactionova, A. Sirota and P. Chernyshkov</i> : Long-scale and seasonal shifts in distribution patterns of small pelagic fish off Northwest African coast related to environmental factors
B:06	<i>Valeriy N. Feldman, Tatiana G. Vasilieva, and Svetlana M. Kasatkina</i> : Large-scale and meso-scale changes in the migration and distribution of Baltic sprat in 1992–2005 and factors determining such changes
B:07	<i>Pierre Petitgas, Dave Reid, Benjamin Planque, Enrique Nogueira, Brendan O’Hea and Unai Cotano</i> : The entrainment hypothesis: an explanation for persistence and innovation in spawning migrations and life cycle spatial patterns
B:08	<i>Jürgen Alheit</i> : Comparison of large-scale migrations of sardines, herring and anchovy in Pacific and European waters
B:09	<i>Yoshioki Oozeki, H. Kubota, A. Takasuka, and R. Kimura</i> : Decadal shifts of spawning grounds of small pelagic fishes off the Pacific coast of Japan
B:10	<i>Geir Huse, Anders Fernö and Jens Christian Holst</i> : Numerical domination and herring migrations
B:11	<i>Janet C. Coetzee, Carl D. van der Lingen, Tracey Fairweather, and Laurence Hutchings</i> : Has fishing pressure caused a major shift in the distribution of South African Sardine?
B:12	<i>Mariano Gutierrez and F. Gerlotto</i> : Alternation in the spatial distribution of sardine and anchovy in the Humboldt Current: effects of climate or behavioural interactions?
B:13	<i>Rodolfo Cornejo, Arnaud Bertrand, and Mariano Gutierrez</i> : Effects of the oxygen minimum zone on the distribution and behaviour of micronektonic acoustic back-scattering layers off Peru
B:14	<i>Dave Reid, A. Eltink, C. J. Kelly, and M. Clark</i> : Long term changes in the pattern of the prespawning migration of the western mackerel ( <i>Scomber scombrus</i> ) since 1975, using commercial vessel data
B:15 Poster	<i>Remment ter Hofstede, Mark Dickey-Collas, I. Mantingh, and A. Wague</i> : The link between migration, the reproductive cycle and condition of <i>Sardinella aurita</i> off Mauritania, Northwest Africa
B:16 Poster	<i>Pablo Tjoeawie, JaapJan Zeeberg, Ad Corten, Josep Coca, Bambay Hamady, and Ebaye Ould Mohamed Mahmoud</i> : The influence of ocean variability on the abundance and migration of small pelagic fish along the Northwest African shelf
B:17 Poster	<i>Dmitry A. Kozlov</i> : Particularities of the length composition of <i>Alfonsin Beryx splendens</i> Lowe, 1833 on seamounts of the northern part of the Atlantic Ocean
B:18 Poster	<i>Súni Lamhauge, Anatoly Filin, and Ivan Oganin</i> : Origin of <i>Notoscopelus kroeyeri</i> in the Northeast Atlantic



## Theme Session C

### Climatic variability in the ICES area – 2000–2005 in relation to previous decades: physical and biological consequences

- C:01 *Ralf Weisse and Hans von Storch*: Storm climate and related marine hazards in the Northeast Atlantic and the North Sea
- C:02 *Harald Yndestad*: Possible lunar nodal tide effects on climate and ecosystem variability in the Nordic Seas and the Barents Sea
- C:03 *M. F. de Jong and H. M. van Aken*: Variability and possible convective mixing in the Irminger Sea
- C:04 *Laura Uusitalo, S. Kuikka, P. Kauppila, P. Söderkultalahti, and S. Bäck*: Bayesian impact analysis of geographical environmental factors: predicting the effects of climatic change and water quality management on fish productivity
- C:05 Withdrawn
- C:06 *J. A. Lindley, R. R. Kirby, D. G. Johns, and P. C. Reid*: Exceptional abundance of the snake pipefish (*Entelurus aequoreus*) in the north-eastern Atlantic Ocean
- C:07 *Antonio Bode, M. Teresa Alvarez-Ossorio, J. Manuel Cabanas, Carmela Porteiro, Manuel Ruiz-Villarreal, M. Begoña Santos, M. Bernal, Luis Valdés, and Manuel Varela*: Recent changes in the pelagic ecosystem of the Iberian Atlantic in the context of multidecadal variability
- C:08 *Marcos Llope and Ricardo Anadón*: Linear and non-linear trends driving the hydrography of the southern Bay of Biscay and its effects on phytoplankton
- C:09 *Rainer, Feistel, Günter Nausch, and Eberhard Hagen*: Response of Baltic water properties to the unusual inflow sequence since 2002
- C:10 Withdrawn
- C:11 *Fabienne Gaillard and Emmanuelle Autret*: Interannual variability of the North-Atlantic: space and time characterization of the temperature and salinity properties
- C:12 Poster *Alexander Sirota, G. Chernega, and S. Kuderskiy*: Climatic trends in the North Atlantic and their consequences for the Canary Upwelling region
- C:13 Withdrawn
- C:14 *Tom Rossby, Vladimir Ozhigin, Victor Ivshin, and Sheldon Bacon*: Isopycnal analysis of near-surface waters in the Norwegian-Barents Sea region
- C:15 *César Meiners, L. Fernández, P. Torres, and A. Ramos*: Climate variability and recruitment success of European hake (*Merluccius merluccius* L.) in NW Africa
- C:16 *V. Valencia, Almudena Fontán, A. Borja, and N. Goikoetxea*: Oceano-meteorological conditions in the SE Bay of Biscay for the period 2001–2005. A comparison with the period 1986–2005 and other reference periods
- C:17 *Cindy J. G. van Damme and A. S. (Bram) Couperus*: Mass occurrence of snake pipefish: result of a change in climate?
- C:18 *Kevin D. Friedland, Michael J. Miller, and Brian Knights*: Ocean-climate change, regime shifts and possible impacts on the recruitment of the European eel, *Anguilla anguilla*
- C:19 *Ute Daewel, Myron A. Peck, Michael A. St. John, and Corinna Schrum*: Investigating the effect of changing environmental factors on spatial and temporal variability in larval sprat growth and survival in the North Sea
- C:20 *O. S. Astthorsson and J. Palsson*: New fish records and records of rare southern species in Icelandic waters in the warm period 1996–2005
- C:21 Withdrawn
- C:22 *Oystein Skagseth, Kjell Arne Mork and Harald Loeng*: Variations in the cascading of Barents Sea bottom water to the Norwegian Sea

- C:23 *W. Paul Budgell, Lars Asplin, Vidar S. Lien, and Einar Svendsen*: Development of a global hindcast archive of ocean and ice conditions 1958–2004 with a focus on the North Atlantic and Arctic
- C:24 Withdrawn
- C:25 *N. Penny Holliday, Sarah Hughes, Sheldon Bacon, and members of the ICES Working Group on Oceanic Hydrography*: Recent warming and salinification of the North Atlantic Ocean as observed by standard sections
- C:26 *César González-Pola, A. Lavín, R. Somavilla, and M. Vargas-Yañez*: Central water masses variability in the southern Bay of Biscay from early 90s. The effect of the severe winter 2005
- C:27 *Ricardo F. Sánchez, Manuel Ruiz-Villareal, César González-Pola, Guillermo Díaz del Río, José Manuel Cabanas, Juan Alonso, Carmen Rodríguez, Nicolás González, and Alicia Lavín*: Hydrological variability of intermediate water masses in the eastern North Atlantic and in the Bay of Biscay during 2003–2005 and comparisons with historical data
- C:28 *Glenn Nolan and Kieran Lyons*: Ocean climate variability on the western Irish Shelf, an emerging time series
- C:29 Poster *Vladimir Boitsov, E. Orlova, and V. Nesterova*: Oceanographic factors influencing the formation of zooplankton biomass in the central latitudinal zone of the Barents Sea
- C:30 Poster *Henk H. L. Heessen and Jim R. Ellis*: New species in the North Sea
- C:31 Poster *Marat A. Bogdanov and Y. N. Tananaeva*: The peculiarities of the interannual variability in temporal alterations of the cold and warm seasons and their duration in the Norwegian, Greenland and Barents Seas
- C:32 Poster *Anda Ikauniece*: Changes in the cladoceran community as an indicator of climatic variability in the Gulf of Riga, NE Baltic Sea
- C:33 Poster *Asta Gudmundsdottir and Thorsteinn Sigurdsson*: Fishery and distribution of the Icelandic summer spawning herring since its recovery in 1970's
- C:34 Poster *E. M. Karasiova*: Current changes of key environment factors contribution into the Baltic sprat reproductive success as compared to the previous decades
- C:35 Poster *Nicolás González, Menchu Rodríguez, Juan Alonso, Alicia Lavín, Manuel Ruiz Villarreal, César González-Pola, Ricardo Sánchez Francisco Plaza, Guillermo Díaz Del Río, J. M. Cabanas, and R. C. Jueguen*: Temporal series observations of water masses off Cape Finisterre North West of Spain
- C:36 Poster *Vidar Lien, Randi Ingvaldsen, Harald Loeng, and Øystein Skagseth*: Climate variability in the Barents Sea 2000-2005
- C:37 Poster *Héðinn Valdimarsson, Steingrímur Jónsson, and Höskuldur Björnsson*: Climatic variability in Icelandic waters and potential effects on biota
- C:38 Poster *Sara L. Hughes and Penny Holliday*: The ICES Annual Ocean Climate Status Summary 2005: Prepared by the ICES Working Group on Oceanic Hydrography
- C:39 Poster *Jan Aure, Didrik S. Danielssen, and Einar Svendsen*: Climatic changes in the deep Norwegian Coastal waters and Skagerrak 2000–2005 in relation to previous decades

#### Theme Session on D

##### Census of Marine Life: Community and species biodiversity in marine benthic habitats from the coastal zone to the deep sea

- D:01 *S. J. Smith, V. E. Kostylev, B. J. Todd and C. Frail*: Using bottom type and water depth information to predict bycatch species in a sea scallop (*Placopecten magellanicus*) fishery
- D:02 *Niels Daan*: Spatial and temporal trends in species richness of the total North Sea fish community, and its southerly and northerly components separately, based on the IBTS, 1977–2005

- D:03 *S. Yu. Guliugyn, F. F. Litvinov, and A. M. Sirota*: The distribution and relative abundance of elasmobranch species along North-Western African shelf and slope (from Gibraltar to 16°N) as compared to retrospective data (70s–80s) and environment
- D:04 *Bradley P. Harris, Kevin D. E. Stokesbury, Jacob I. Nogueira, and Michael C. Marino II*: Benthic habitat mapping in offshore USA sea scallop, (*Placopecten magellanicus*), beds based on underwater video surveys
- D:05 *Chih-Lin Wei and Gilbert T. Rowe*: The bathymetric zonation and community structure of deep-sea macrobenthos in the Northern Gulf of Mexico
- D:06 Withdrawn
- D:07 Withdrawn
- D:08 *T. J. Pitcher, P. J. B. Hart, T. Morato, M. Clark, and R. S. Santos*: Seamounts: ecology, fisheries and conservation: a new contribution from CenSeam
- D:09 *Vasily Sokolov*: Zoogeography of decapod crustaceans in the Euro-Asiatic Seas of Arctic region
- D:10 *Michaela Aschan and H. C. Trannum*: Community and species biodiversity in benthic fauna of the Barents Sea
- D:11 *Roland Pitcher, Peter Doherty, John Hooper, Peter Arnold, and Neil Gribble*: Seabed Biodiversity of the Continental Shelf of the Great Barrier Reef Region
- D:12 *Sebastian P. Holmes and Jaap van der Meer*: Population genetics and dispersal: can one be used to predict the other?
- D:13 *Jeremy Collie, Page Valentine, John Anderson, and Donald Gordon*: A small hotspot of benthic biodiversity on the northwest Atlantic continental shelf
- D:14 *Falk Huettmann et al.*: A global modeling method for predicting benthos diversity and abundance: using RandomForest to link public available historic survey data with environmental data for the Bering Sea region and beyond
- D:15 Poster *Sandrine Vaz, J. Martin, Y. Verin, and D. Le Roy*: Mapping benthic invertebrate assemblages from bottom trawl hauls observations
- D:16 Poster *Uwe Piatkowski, Michael Vecchione, and Richard E. Young*: Community and species diversity of deepwater cephalopods along the northern mid-Atlantic Ridge
- D:17 Poster *Bhavani E. Narayanaswamy and Graham B. Shimmiel*: The Census of Marine Life in Europe
- D:18 Poster *Falk Huettmann and Simon Pittman*: A Global Template for predicting pelagic species diversity and abundance: Using TreeNet to link public available historic seabird data with remotely sensed environmental data for the Gulf of Maine
- D:19 *Mark J. Costello, Edward Vanden Berghe, Cliff Cunningham, and Serge Rotenberg*: Origins of the North East and North West Atlantic marine biota

### Theme Session E

#### Operational Oceanography

(Co-sponsored by PICES)

- E:01 *Benjamin Planque*: Tackling the appropriate processes, temporal and spatial scales for fisheries Operational Oceanography
- E:02 *Laure Buffaz and B. Planque*: Applications of Operational Oceanography to fisheries management : the case of the anchovy in the Bay of Biscay
- E:03 *P. Montero, S. Torres-López, P. Otero, Y. Pazos, M. Ruiz-Villarreal, and Luis U. Vilasa*: Modelling warm inshore poleward jet in relation to HABs advection at Northwest Iberia
- E:04 *Franciscus Colijn, Wilhelm Petersen, Henning Wehde, and Friedhelm Schroeder*: Automated measuring system for monitoring of coastal waters: synthesis of results of the EU-funded FerryBox project
- E:05 Withdrawn

- E:06 *Monika Nausch and Günther Nausch*: Phosphorus regulation of the cyanobacteria development in the Baltic Sea
- E:07 *Hans Dahlin*: On creating sustained Operational Oceanography in Europe
- E:08 *Thomas Neumann, F. Janssen, and G. Schernewski*: Modelling cyanobacteria bloom variability in the Baltic Sea
- E:09 *Lennart Funkquist*: An Operational Oceanographic service system for the Baltic Sea
- E:10 *D. K. Mills, P. Walker, J. M. Rees, S. Malcolm, C. J. Fox, M. Edwards, R. Laane, P. Bot, H. Ridderinkhof, F. Colijn, W. Petersen, F. Schroeder, Henning Wehde, J. Johannessen, E. Svendsen, and B. Hackett*: Development of a European Marine Ecosystem Observatory (EMECO)
- E:11 *Andrey P. Pedchenko and A. V. Dolgov*: Estimation of ecosystem changes exemplified by fish community from the Irminger Sea as a result of active water warming in the North Atlantic in the last decade
- E:12 *Kari Eilola, E. Almroth, L. J. Naustvoll, P. A. Andersen, and B. Karlson*: Modelling the dynamics of harmful blooms of *Chattonella* sp. in the Skagerrak and the Kattegat
- E:13 *John R. Siddorn, Ricardo Torres, J. Icarus Allen, and Martin W. Holt*: Moving towards operational ecosystem modelling for the prediction of HABs and the “ecosystem approach”
- E:14 *Henning Wehde, Kai Sørensen (NIVA), Friedhelm Schroeder (GKSS), Wilhelm Petersen (GKSS), and Harald Loeng (IMR)*: Operational Oceanography of the North Sea/Skagerrak and Norwegian Sea by ferrybox systems: from one line to a coordinated network of ferryboxes
- E:15 *Maria Jose Juan Jorda and John A. Barth*: Integration of oceanographic information off the Oregon and Washington coasts into U.S. West Coast groundfish ecology and fisheries management
- E:16 *Einar Svendsen, Morten Skogen, Paul Budgell, Geir Huse, Jan Erik Stiansen, Bjørn Ådlandsvik, Frode Vikebø, Lars Asplin, and Svein Sundby*: An ecosystem modeling approach to predicting cod recruitment
- E:17 *Laurent Bertino and K. A. Lisæter*: The TOPAZ Arctic monitoring and prediction system
- E:18 *Yves Desaubies and Mersea consortium*: Mersea Marine Core Services: towards an integrated environmental monitoring system
- E:19 *N. Pinardi, G. Coppini, S. Dobricic, V. Fernandez, C. Fratianni, A. Guarnieri, F. Marzocchi, P. Oddo, and M. Tonani*: The Mediterranean Forecasting System: a GMES prototype regional core service and the environmental applications
- E:20 Poster *J. Ozer, V. Pison, S. Scory, D. Van den Eynde, and B. Nechad*: Towards confidence indexes for model forecast in coastal waters
- E:21 Poster *Yoshioki Oozeki, S. Ito, S. Kakehi, and H. Kubota*: Development of real-time data exchange system between research vessels and shore-based analysts via Internet satellite
- E:22 Poster *Luis Ferrer, M. González, A. Fontán, Ad. Uriarte, and M. Collins*: Operational Oceanography System in the Prestige crisis: problems, solutions and applications
- E:23 Withdrawn
- E:24 Poster *Andrey P. Pedchenko, V. D. Boitsov, V. A. Borovkov, V. V. Guzenko, A. L. Karsakov, and E. V. Sentyabov*: Problems of hydrographic observations on standard sections in the North Atlantic and adjacent seas

#### Theme Session F

##### What plankton are fish really eating? Species and diets, availability and dependency

- F:01 *Ivan Mateo*: Application of the Wisconsin bioenergetics model to Georges Bank and Gulf of Maine Atlantic cod populations
- F:02 *Ain Lankov, Leili Järv, Tiit Raid, Mart Simm, Timo Arula, and Sergei Põlme*: Perch and herring – different feeding strategies in early life history?

- F:03 *Piotr Margonski, K. Horbowa, A. Grzyb, A. Krajewska-Soltys, and T. B. Linkowski*: Food composition of herring larvae in the Vistula Lagoon (southern Baltic Sea): impact of hydrological factors and changes in zooplankton community structure
- F:04 *Emma L. Orlova, G. B. Rudneva, A. V. Dolgov, N. G. Ushakov, L. L. Konstantinova, and N. G. Zhukova*: Long-term dynamics of capelin feeding in the Barents Sea and decisive factors
- F:05 *Sanna Rönkkönen, Sigrún Huld Jónasdóttir, Eveliina Lindén, Miina Karjalainen and Markku Viitasalo*: Zooplankton fatty acid composition in the Baltic Sea: spatial and interspecific variation
- F:06 *Irina Prokopchuk*: Feeding of 0-group herring *Clupea harengus* (Linné) in the Barents Sea
- F:07 *John K. Pinnegar, Jeroen van der Kooij, Georg H. Engelhard, Julia L. Blanchard, Karema J. Warr, and David Righton*: Small-scale variability in fish diet and whether or not this reflects local patterns of prey availability
- F:08 *Valeriy N. Feldman, Faina A. Patokina, and Natalia A. Kalinina*: What herring and sprat can eat in the Baltic Sea and what they should eat: species and diets, daily rations and food demands
- F:09 *E. Marquis, P. Petitgas, N. Niquil, and C. Dupuy*: Influence of the small pelagic fish on the structure and functioning of the planktonic food web on the continental shelf of the Bay of Biscay
- F:10 *Monika Haugland, Jens Christian Holst, Marianne Holm, and Lars Petter Hansen*: Feeding of Atlantic salmon (*Salmo salar* L.) postsmolts in the Northeast Atlantic
- F:11 *Hiroshi Kubota, Y. Oozeki, and R. Kimura*: Evidence of niche segregation between mesopelagic fishes (Myctophidae and Gonostomatidae) and larval and juvenile Japanese anchovy from their gut contents and the diurnal vertical migration of prey zooplankton
- F:12 *Herdis Langøy, Leif Nøttestad, Georg Skaret, Cecilie T. Å. Broms, and Anders Fernø*: Feeding ecology of Atlantic mackerel (*Scomber scombrus*) in the Norwegian Sea
- F:13 *Michael Shaw, Rabea Diekmann, Peter Bromley, David Righton, and Steve Milligan*: Assessment of the diets of cod and whiting larvae in a frontal region close to the Norwegian trench: co-existence or competition?
- F:14 *William L. Rowlands, Mark Dickey-Collas, Audrey J. Geffen, and Richard D. M. Nash*: Do gadoids really prefer *Calanus*? The prey selection through metamorphosis in Irish Sea cod (*Gadus morhua*), haddock (*Melanogrammus aeglefinus*) and whiting (*Merlangius merlangus*)
- F:15 *Jari-Pekka Pääkkönen, H. Peltonen, M. Karjalainen, J. Pönni, M. Vinni, and M. Viitasalo*: Zooplankton-fish interactions in the Gulf of Finland, Baltic Sea: Results from the open sea cruises 2004–2005
- F:16 *William L. Rowlands, Mark Dickey-Collas, Audrey J. Geffen and Richard D. M. Nash*: Prey size selection through larval development in Irish sea cod (*Gadus morhua*), haddock (*Melanogrammus aeglefinus*) and whiting (*Merlangius merlangus*)
- F:17 *Susana Garrido, Maria Emilia Cunha, Paulo B. Oliveira, and Carl van der Lingen*: Diet composition and feeding behaviour of Iberian sardine (*Sardina pilchardus*)
- F:18 Withdrawn
- F:19 Withdrawn
- F:20 Poster *Maria Manuel Angélico, Marta Silva, Fátima Quintela, and Susana Garrido*: Observations on *Trachurus trachurus* diet and zooplankton community structure at two locations off the Portuguese coast
- F:21 Poster *Kristin Helle*: Prey selection of early juvenile cod (*Gadus morhua* L.) in the Barents Sea
- F:22 Poster *Gunta Aispure*: Daily feeding patterns and feeding rates of copepod *Limnocalanus macrurus* in the Bothnian Sea (Baltic Sea)
- F:23 Poster *Llona Zloch and Mariusz R. Sapot*: Interspecific feeding relationship between *Pomatoschistus microps* and *Pomatoschistus minutus*, two sympatric co-existing goby species from the Gulf of Gdańsk (Southern Baltic)
- F:24 Poster *Súni Lamhauge*: Predation of mesopelagic fish in Faroese waters

- F:25 Poster *T. Moura, I. Figueiredo, I. Farias, B. Serra-Pereira, A. Neves, L. Gordo and M. F. Borges: Ontogenetic dietary shift and feeding strategy of *Raja undulata* in the Portuguese continental shelf*
- F:26 Poster *E. J. Martino, E. D. Houde, and C. Lozano: Variability in dominant prey types of larval and juvenile stage striped bass in strong and poor recruitment years*

### Theme Session G

#### Human health risks and marine environmental quality

- G:01 *B. Y. Kamaruzzaman, N. A. M. Shazili, K. Y. S. Willison, M. C. Ong, and H. A. G. Norhie zam: A role of a northeast monsoon seasons in the dilution of heavy metals concentrations in sediments off Pahang, South China Sea*
- G:02 *Jan-Willem Wegener and Frank Willemsen: Sources, consumer exposure and risks of organotin contamination in seafood*
- G:03 *Aad Smaal, Jeroen Wijsman, and Marnix Poelman: Proliferation of the Pacific oyster *Crassostrea gigas* in Dutch coastal waters and its consequences for human use*
- G:04 *Jacob de Boer and Pim E. G. Leonards: Contaminants in marine food chains: old patents and new pollutants*
- G:05 *Pim de Voogt: Perfluorinated alkylated substances in the marine environment*
- G:06 *N. Carro, I. García, M. Ignacio, and A. Mouteira: Distribution of PCBs compounds in Bivalve molluscs coming from Galicia Coast (N.W. Spain)*
- G:07 Poster *Natalia Chukalova: An assessment of risks of bream (*Abramis brama* L.) from the Russian EEZ of the Vistula and the Curonian Lagoons (the South- East Baltic Sea) for human food using*
- G:08 *Martine van den Heuvel-Grevel, Pim Leonards, and Dick Vethaak: Food web transfer of dioxins and other contaminants in the Western Scheldt: implications for human and environmental health*
- G:09 Poster *Galina Rodjuk and A. Eliseev: Parasitological assessment of the commercial fishes from the Russian EEZ of the South Baltic Sea*
- G:10 Withdrawn
- G:11 *J. Kevin Summers, James E. Harvey, and Linda C. Harwell: Assessing nation-wide distributions of contaminant levels in selected finfish and shellfish from the estuaries of the United States*
- G:12 Poster *Reinhard Kruse: Automated Determination of Hg-Species in Marine Biota by Means of GC-CVAFS after TMAH Digestion and Solvent Stripping as Serial Sample Preparation Procedure*
- G:13 *Stefan Effkemann: Is the use of biological approaches for diarrhetic shellfish poisoning testing still justifiable ?*

### Theme Session H

#### Evolutionary effects of exploitation on living marine resources

- H:01 *A. I. Arkhipkin: Evolutionary effects of exploitation on short-living marine resources: nektonic squid *Illex argentinus* and *Loligo gahi* in the Southwest Atlantic*
- H:02 Withdrawn
- H:03 *A. T. Laugen: Exploitation-induced changes in farmed stocks of Pacific oysters along the French Atlantic coast*
- H:04 *Ken H. Andersen, K. Farnsworth, U. H. Thygesen, and J. E. Beyer: Management options for reversing depressed maturation-size in Baltic Cod*
- H:05 *David S. Boukal, André M. de Roos, and Lennart Persson: How does stochasticity affect evolutionary regime shifts in age and size at maturation?*

- H:06 *Marie-Joëlle Rochet*: An overview of evolutionary effects of fishing on populations, and their implications for management
- H:07 *Oleg M. Lapshin, B. N. Kotenev, Y. G. Izumov, and Y. V. Gerasimov*: Morphological features of walleye pollock individuals from the different parts of a trawl
- H:08 *Anna Gårdmark and Ulf Dieckmann*: Size-dependent mortality causes divergent evolutionary responses in maturation size
- H:09 *Anssi Vainikka, A. Gårdmark, B. Bland, and J. Hjelm*: Fishing-induced early reproduction at the cost of growth in the Baltic cod *Gadus morhua*?
- H:10 *Erin S. Dunlop, Marissa L. Baskett, Mikko Heino, and Ulf Dieckman*: The propensity for marine reserves to slow the evolutionary effects of fishing
- H:11 *Ulf Dieckmann, Erin S. Dunlop, and Mikko Heino*: Eco-genetic models: A new framework for understanding fisheries-induced evolution
- H:12 *Shahaama Abdul Sattar, Christian Jørgensen and Øyvind Fiksen*: Effects of fisheries on energy- and sex-allocation in slow-growing hermaphrodites such as groupers
- H:13 *Christian Jørgensen, Øyvind Fiksen, and Bruno Ernande*: Effects of different management regimes on harvest-induced life history evolution in Northeast Arctic cod
- H:14 *Fabian M. Mollet, Sarah B. M. Kraak, and Adriaan D. Rijnsdorp*: Fisheries-induced evolutionary change in the onset of maturation in North Sea sole (*Solea Solea*)
- H:15 *Jeffrey A. Hutchings and Sherrylynn Rowe*: Potential consequences of reproductive behaviour and mating system complexity on fishery-induced evolution
- H:16 *Anne Maria Eikeset, Erin Dunlop, Eric Naevdal, Nils Chr. Stenseth, and Ulf Dieckmann*: A bio-economic model on fisheries-induced evolution in North-east Arctic cod
- H:17 *Åke Brännström, Nicolas Loueille, Michel Loreau, and Ulf Dieckmann*: Evolutionary consequences of harvesting in ecosystems
- H:18 *Katja Enberg, Erin S. Dunlop, Mikko Heino, and Ulf Dieckmann*: Ecological and evolutionary recovery of exploited fish stocks
- H:19 *Loïc Baulier, Mikko Heino, George R. Lilly, and Ulf Dieckmann*: Body condition and evolution of maturation of Atlantic cod in Newfoundland
- H:20 Poster *Fabio Fiorentino, F. Badalamenti, G. D'Anna, T. Fortibuoni, G. Garofalo, M. Gristina, and C. Pipitone*: Effects of a trawling ban on the life-history patterns of exploited fishes. The case of red mullet (*Mullus barbatus*, L. 1758) in the Gulf of Castellammare (north-western Sicily-Mediterranean)

### Theme Session I

#### Quantifying, summarizing, and integrating total uncertainty in fisheries resource surveys

- I:01 *S. J. Smith, M. J. Lundy, B. J. Todd, V. E. Kostylev, and G. Costello*: Incorporating bottom type information into survey estimates of sea scallop (*Placopecten magellanicus*) abundance
- I:02 *Michael C. S. Kingsley, Bo Bergström, Kai Wieland, and Michael Rosing*: A Bayesian gear change: estimating and using a correction factor for survey catchability
- I:03 *Michael C. S. Kingsley*: Uncertainty in surveys carried out using non-independent sampling: quantifying and summarising
- I:04 Withdrawn
- I:05 *Marie-Joëlle Rochet, Verena M. Trenkel, and André Battaglia*: Estimating end effect in trawl catches
- I:06 Withdrawn
- I:07 *Daniel K. Kimura*: Interpreting spatial variability found in fishery survey data

- I:08 *Aril Slotte, Dankert Skagen, and Svein A. Iversen*: Size and condition of mackerel in research vessel trawl hauls versus commercial purse seine catches: implications for acoustic biomass estimation
- I:09 *David Demer*: Estimates of sampling and measurement error in acoustic surveys of Antarctic krill
- I:10 *Kjell R. Utne and Egil Ona*: Acoustic extinction in dense herring layers, measured from a bottom-mounted transducer
- I:11 *Egil Ona*: Seasonal variability in cod target strength
- I:12 *Michael Pennington and Odd Nakken*: Timely evaluation of stock status based on scientific surveys, an update
- I:13 *Magne Aldrin and Anders Løland*: Estimating and decomposing total uncertainty for survey-based abundance estimates of Norwegian spring-spawning herring
- I:14 *S. M. Kasatkina and P. S. Gasyukov*: Estimating uncertainty in Baltic acoustic survey results applying geostatistics techniques and simulation
- I:15 *Mathieu Woillez, J. Rivoirard, and P. Fernandes*: Evaluating the uncertainty of abundance estimates from acoustic surveys using geostatistical conditional simulations
- I:16 *Martin J. Cox, Jonathan L. Watkins, Monique L. MacKenzie, and Andrew S. Brierley*: The effect of missing acoustic observations (dropped pings) on mean area density estimates of Antarctic krill (*Euphausia superba*)
- I:17 Withdrawn
- I:18 *Valerie Mazauric, Laurent Berger, and Verena Trenkel*: Biomass estimation using the new scientific multibeam echo sounder ME70
- I:19 *Hans Gerritsen and David McGrath*: An overview of sources of bias and uncertainty in fisheries surveys
- I:20 *Geir Pedersen, O. R. Godø, E. Ona, T. Torkelsen, and R. Pedersen*: Uncertainty in *in situ* target strength measurement of blue whiting (*Micromesistius poutassou*)
- I:21 *Espen Johnsen and Olav Rune Godø*: Diurnal variation in acoustic abundance of blue whiting (*Micromesistius poutassou*) – an effect of tilt angle distribution?
- I:22 *Vidar Hjellvik, Nils Olav Handegard, and Egil Ona*: Correcting for avoidance in acoustic abundance estimates for herring using a generalized linear model
- I:23 *Olav Rune Godø, Vidar Hjellvik, and Dag Tjøstheim*: Diurnal variation in frequency response of gadoids in the Barents Sea
- I:24 *Vidar Hjellvik and Egil Ona*: How many trawl hauls, and how many fish from each haul are needed to obtain a given precision in the age structure estimate for Norwegian spring-spawning herring? A bootstrap approach
- I:25 *Carla Scalabrin, J. Y. Coail, G. Bavouzet, J. P. Vacherot, M. Le Goff, and J. Morard*: Comparing data from hull mounted and ROV acoustics: impact on acoustic density measurements of different target to sensor distances
- I:26 *Ian Doonan*: Quantifying error sources in deepwater acoustic surveys
- I:27 *Jacques Massé, Verena Trenkel, Caroline Kostecky, and Sonia Mehault*: An attempt to reduce species mis-identification in acoustic assessment by using school descriptors, including multi-frequency indices
- I:28 *Marine Pomarede, J. Simmonds, R. Hillary, M. McAllister, L. Kell, and C. Needle*: Evaluating the management implications of different types of errors and biases in fisheries resources surveys using a simulation-testing framework
- I:29 *Paul Walline*: Sequential geostatistical simulation methods to assess the error distribution function for biomass determined from acoustic survey data
- I:30 *Leo A. J. Nagelkerke and Iyob Tsehaye*: Sampling fisheries with high levels of accepted relative error may lead to overestimation of the statistical power of trend detection
- I:31 Withdrawn



- I:32 Poster *Jeppé Kolding and Paul van Zwieten*: Lake Victoria Nile perch fisheries threatened by exploitation or eutrophication?
- I:33 Poster *Rainer Oeberst and Eberhard Götze*: Combination of trawl results during acoustic surveys – CASE STUDY
- I:34 Poster *Vasily Sokolov*: Trap survey on the fishery boats as a promising way for stock assessment of red king crab (*Paralithodes camtschaticus*) in the Barents Sea
- I:35 Poster *Vidar Hjellvik, Olav Rune Godø, and Dag Tjøstheim*: Can the precision of bottom trawl indices be increased by using simultaneously collected acoustic data? The Barents Sea experience
- I:36 Poster *Carla Scalabrin V. Trenkel, and D. Choqueuse*: Autonomous bottom moored acoustic observatory for fish resources monitoring
- I:37 Withdrawn
- I:38 Poster *Einar Júlíusson*: A formula for a more accurate VPA
- I:39 Withdrawn
- I:40 Withdrawn
- I:41 Poster *Maria Conception Villanueva, B. Ernande, Sandrine Vaz, Jean-Paul Delpech, and A. Carpentier*: Trophic food web and ecosystem attributes of the Eastern English Channel

### Theme Session J

#### Is there more to eels than SLIME?

- J:01 Poster *Yu-Jia Lin, Su-Lean Chang, Mei-Yu Chang, Shih-Huan Lin, Tzyy-Ing Chen, Mao-Sen Su, Wei-Cheng Su, and Wann-Nian Tzeng*: Estimation of the abundance of Japanese eels *Anguilla japonica* in the Kao-Ping River estuary of Taiwan using the mark-recapture method
- J:02 Withdrawn
- J:03 *Laurent Beaulaton and Cédric Briand*: Effect of management measures on glass eel escapement
- J:04 *J. Klein Breteler et al.*: Assessment of population size and migration routes of silver eel in the River Rhine: a two-year combined telemetry and mark-recapture study
- J:05 *D. J. Jellyman*: Status of New Zealand freshwater eel stocks and management initiatives
- J:06 *David N. Carss*: Getting to grips with European Eel (*Anguilla anguilla*) population dynamics at two spatial scales
- J:07 *Patrick Lambert, Laurent Beaulaton, Françoise Daverat, and Christian Rigaud*: Assessment of eel stock status in Garonne and Dordogne water bodies by analysing length structures
- J:08 *Uwe Brämick, Janek Simon, and Erik Fladung*: Monitoring of European eel stocks in North-East Germany
- J:09 Poster *W. N. Tzeng*: Sex-dependent habitat use of the Japanese eel *Anguilla japonica* in Taiwan
- J:10 *Karsten Zumholz, Eva Jakob, and Reinhold Hanel*: Life history traits and migration behaviour of European eel – The effects of habitat choice on eel spawner quality
- J:11 *Tony Bark, Beth Williams, and Brian Knights*: The current status and temporal trends in stocks of the European eel in England and Wales
- J:12 *Claude Belpaire and Geert Goemans*: Eels: contaminant cocktails pinpointing environmental contamination
- J:13 Poster *Mei-Chen Tseng, Wann-Nian Tzeng, and Sin-Che Lee*: Comparing the population structure of temperate *Anguilla japonica* with tropical *A. marmorata* in the Northwestern Pacific Ocean
- J:14 *D. Bevacqua, A. J. Crivelli, P. Melià, M. Andrello, G. A. De Leo, and M. Gatto*: Effectiveness of different measures for the recovery of the European eel (*Anguilla anguilla*) stock: an analysis for the Camargue lagoons
- J:15 *Janek Simon*: Age, growth and condition of European eel (*Anguilla anguilla*) from six lakes in the river Havel system (Germany)

- J:16 Poster *Yu-Jia Lin, Linas Ložys, and Jeng-Chieh Shiao*: Effects of habitat and restocking on the growth of European eel *Anguilla anguilla*
- J:17 *Hee-Yong Kim and S. Kimura*: Effect of El Niño on migration and larval transport of the Japanese eel, *Anguilla japonica*
- J:18 *Linas Ložys, Chia-Hui Wang, Jen-Chieh Shiao, Yoshiyuki Iizuka, Chen-Feng You, and Wann-Nian Tzeng*: Stock discrimination of the European eel *Anguilla anguilla* in Lithuanian waterbodies by otolith Sr:CA ratios and other elemental signatures
- J:19 Withdrawn
- J:20 *Paula Cullen and T. K. McCarthy*: Going with the flow – Can managing flow regimes aid in promoting silver eel spawner escapement from the Irish River Shannon system?
- J:21 Poster *Eva Jakob, Karsten Zumholz, and Reinhold Hanel*: The influence of habitat choice on parasite infestation of the European eel in northern Germany
- J:22 *T. P. Bult and W. Dekker*: An experimental field study on the migratory behaviours of glass eel (*Anguilla anguilla*) at the interface of fresh and salt waters, with implications to the management and improvement of glass eel migration
- J:23 *Brian Knights, Tony Bark, and Beth Williams*: A review of the status of European eel stocks in north west Europe
- J:24 Poster *H. M. Jansen, H. V. Winter, M. C. M. Bruijs, and H. Polman*: Just go with the flow? How individual behaviour and river discharge affects silver eel mortality in the river Meuse
- J:25 *H. V. Winter and H. M. Jansen*: Against all odds: silver eel mortality in the River Meuse in a population perspective
- J:26 *Håkan Westerberg, Ingvar Lagenfelt, and Henrik Svedäng*: Silver eel migration behaviour in the Baltic
- J:27 *Alan M. Walker, Miran W. Aprahamian, Mike Pawson, B. Williams, A. Bark, and B. Knights*: Modelling of *Anguilla anguilla* production and silver eel escapement for the river Severn, compliance with targets and development of management plans
- J:28 *Hendrik Dörner, Christian Skov, Søren Berg, Torsten Schulze, Douglas Beare, and Gerard Van der Velde*: The diet of large eels (*Anguilla anguilla*) in relation to food availability
- J:29 Poster *José Lino Costa, Isabel Domingos, Armando Jorge Almeida, Eric Feunteun, and Maria José Costa*: The interaction between *Anguilla anguilla* (Linnaeus, 1758) and *Halobatrachus didactylus* (Bloch & Schneider, 1801) and potential consequences of climatic changes
- J:30 Withdrawn
- J:31 *Isabel Domingos, José Lino Costa, and Maria José Costa*: Consequences of unreliable age determination in the management of the European eel, *Anguilla anguilla* (Linnaeus, 1758)
- J:32 *Gregory E. Maes and Filip A. M. Volckaert*: Challenges in using genetics for European eel management: current status
- J:33 *D. K. Cairns et al.*: Why has the American eel (*Anguilla rostrata*) declined in the St. Lawrence River but not the Gulf?
- J:34 *Arjan Pastra, V. J. T. van Ginneken, A. J. Murk, G. E. E. J. M. van den Thillart*: Are dioxin-like contaminants responsible for the eel (*Anguilla anguilla*) drama?
- J:35 *Mårten Åström and Willem Dekker*: Speed of recovery of recruitment of the European eel
- J:36 Poster *Jaime Castellanos, Marina Santurtún, Estibaliz Díaz, P. Prouzet, and N. Bru*: Recruitment and migration behaviour of glass eel in the Oria River: Preliminary results from the 2005–2006 season
- J:37 Poster *Claude Belpaire, C. Geeraerts, H. Verbiest, G. De Boeck, L. Bervoets, M. Ovidio, J. C. Philippart, G. Doignon, and P. Gérard*: EELBASE : A 4-years eel research proposal submitted to the Belgian Research programme “Science for a Sustainable Development”
- J:38 Poster *Sérgia Costa Dias, Alfredo Oliveira, and Carlos Antunes*: Minho river basin catchment area suitability for the European eel

J:39 Poster *Marcin Blaszkowski and T. K. McCarthy*: Variation in sex ratio of silver eels in the lower River Shannon, Ireland

### Theme Session K

#### Discarding: quantities, causes, and consequences

- K:01 *Mark S. Kaiser*: A Bayesian estimator for discard weight in commercial marine fisheries
- K:02 Withdrawn
- K:03 *Colin Millar and Rob Fryer*: Modeling the distribution of haddock discards conditional on landings and other factors
- K:04 *Andrew B. Cooper*: Propagation of uncertainty in bycatch estimates through VPA stock assessment models
- K:05 *Vladimir Laptikhovsky, Joost Pompert, and Paul Brickle*: Fishery discards management and environmental impact in Falkland Islands Fisheries
- K:06 *Konstantin V. Drevetnyak, E. V. Gusev, K. M. Sokolov, and A. A. Grekov*: The Barents Sea and Russia: demersal fishery and discards
- K:07 *Azza El-Ganainy, M. H. Yassien, and E. A. Ibrahim*: Bottom trawl discards in the Gulf of Suez, Egypt
- K:08 Withdrawn
- K:09 *Elena Guijarro Garcia, L. Taylor, and U. Skúladóttir*: Trends in abundance of demersal fish species captured as by-catch in the offshore shrimp survey off North Iceland
- K:10 *Elena Guijarro Garcia, S. Á. Ragnarsson, and H. Eiríksson*: Changes in the macrobenthic community in Breiðafjörður, West Iceland, following the cessation of scallop dredging
- K:11 *Stuart Reeves, Andy South, and Mike Armstrong*: Using discard observer data to address mixed-fishery issues
- K:12 *Verena M. Trenkel, François Le Loc'h, and Marie-Joëlle Rochet*: Interactions between Norway lobster diel activity variations and the fishing strategy of *Nephrops* trawlers in the Bay of Biscay
- K:13 *Spyros Fifas, Claire Macher, Marie-Joëlle Rochet, and Céline D'Hardivillé*: Sorting factors in the *Nephrops norvegicus* French trawl fishery of the Bay of Biscay (VIIIab)
- K:14 *Claire Macher, Olivier Guyader, and Jean Boncoeur*: A microeconomic model of discarding behaviour
- K:15 *W. A. Karp, J. Barkas, S. Brooke, and L. Desfosse*: Estimating bycatch and discard in United States commercial fisheries
- K:16 *Joël Vigneau*: Raising procedures for discards: Sampling theory
- K:17 Withdrawn
- K:18 Withdrawn
- K:19 *Susana Barbosa, Ana Cláudia Fernandes, Laura Wise, Dina Silva and Graça Pestana*: Portuguese bottom trawl, longline and purse seine fleets fishing and discarding practices
- K:20 *Sara-Jane Moore, Colm Lordan, Richard Briggs, and Pieter-Jan Schon*: Does discarding sustain the Irish Sea *Nephrops* fishery?
- K:21 Withdrawn
- K:22 *Mikio Moriyasu, Marcel Hebert, and Elmer Wade*: Protection of postmolt male snow crab (*Chionoecetes opilio*) in the southwestern Gulf of St. Lawrence: Strategy to avoid discarding mortality of future recruitment to the fishery
- K:23 Poster *Isabel González Herraiz, J. Ruiz, and M. Santurtun*: Difficulties on applying the requirements of Commission Regulation (EC) No 1639/2001 in the estimation of discards from Basque Country trawl fleets

- K:24 Poster *Marie-Joëlle Rochet, Michel Bertignac, Spyros Fifas, Olivier Gaudou, and Catherine Talidec*: Estimating discards in the *Nephrops norvegicus* French trawl fishery of the Bay of Biscay (VIIIab)
- K:25 Poster *Jon Ruiz, González Herraiz, M. Santurtun, and I. Quincoces*: Long-term benefits of a simple technical measure (mesh size): Case study of Pair trawls in the Bay of Biscay (VIIIabd), another reason for accomplishing regulation
- K:26 Poster *Céline D'Hardivillé, F. Morandeau, M. Meillat, and P. Larnaud*: The progressive improvement of the selectivity of french bottom trawls for Nephrops (*Nephrops norvegicus*) and Hake (*Merluccius merluccius*) in the Bay of Biscay (VIIIab)
- K:27 Poster *Alain Tétard, O. Gaudou, P. Lespagnol, Y. Morizur, I. Peronnet, M.-J. Rochet, and J. Vigneau*: The French experience in sampling discards at sea in the European waters
- K:28 Poster *Céline D'Hardivillé, Stéphanie Tachoures, and Anthony Ollitrait*: Investigating the factors which influence the *Nephrops* fleet discards of the Bay of Biscay and control measures to improve fishing practices and encourage a decrease of by-catch
- K:29 Poster *Filipa Baeta, Marisa Batista, Anabela Maia, and Henrique Cabral*: Elasmobranch bycatch in trammel nets fisheries in the Portuguese coast
- K:30 Poster *Isabel Bruno, Izaskun Preciado, Nérida Pérez, Fran Velasco, Ignacio Olaso, Hortensia Araujo, and José Luis Gutiérrez-Zabala*: Correlations between blue whiting, horse mackerel and European hake and silver-pout in discards trips and in European hake diet in ICES Division VIIIc
- K:31 Withdrawn
- K:32 Poster *Marisa Batista and Henrique Cabral*: Catches of target species and bycatches of the trammel net soles fishery in the west coast of Portugal
- K:33 Poster *Jorge M. S. Goncalves, P. Monteiro, R. Coelho, J. Ribeiro, P. G. Lino, L. Bentes, and K. Erzini*: Discarding practices in a coastal trammel net fishery

### Theme Session L

#### Marine mammals, seabirds, and fisheries: ecosystem effects and advice provision

- L:01 *Vasiliki Karpouzi, R. Watson, and D. Pauly*: Modelling and mapping resource overlap between seabirds and marine fisheries on a global scale
- L:02 *Daniel E. Duplisea and Mike Hammill*: An approach to modelling the influence of harp seal (*Phoca groenlandica*) predation on decline and recovery of the Northern Gulf of St. Lawrence cod (*Gadus morhua*)
- L:03 *Jan Haelters, Thierry Jauniaux, Francis Kerckhof, José Ozer, and Serge Scory*: Using models to investigate a harbour porpoise bycatch problem in the southern North Sea – eastern Channel in spring 2005
- L:04 *P. S. Hammond and K. Macleod*: Abundance of harbour porpoise and other small cetaceans in European Atlantic continental shelf waters
- L:05 *A. D. Buren, M. Koen-Alonso, W. A. Montevecchi, J. T. Anderson, B. deYoung, and G. K. Davoren*: Modeling trophic interactions between parental common murres and capelin off the northeast Newfoundland coast
- L:06 *Arliss J. Winship, Per Berggren, and Philip S. Hammond*: Management procedure for determining appropriate limits to the bycatch of small cetaceans in the European Atlantic and North Sea
- L:07 *A. Gilles, K. Kaschner, R. Mundry, M. Scheidat, and U. Siebert*: Spatial and seasonal distribution patterns of harbour porpoises in the German Bight of the North Sea – which abiotic factors influence the distribution?
- L:08 *Ulf Lindström, Kjell T. Nilssen, and Tore Haug*: Prey consumption by Barents Sea harp seals in the period 1990–2005

- L:09 *A. S. (Bram) Couperus, Cindy J. G. van Damme, and Huygen van Steen*: Finding the cause of bycatch of Atlantic white-sided dolphins (*Lagenorhynchus acutus*) by pelagic trawlers: following the biological approach
- L:10 Withdrawn
- L:11 Withdrawn
- L:12 *Santiago Lens*: Marine turtles observations in different Spanish fisheries (1993–2005)
- L:13 *Sinéad Murphy, S. P. Northridge, P. D. Jepson, R. Deaville, R. J. Reid, E. Rogan, M. Silva, M. Sequeira, R. Lago Garza, and A. López*: Pregnancy rate in the short-beaked common dolphin *Delphinus delphis* in the North-east Atlantic
- L:14 *K. Ampela and A. Ferland*: Grey seal (*Halichoerus grypus*) diet composition in Nantucket Sound, U.S., inferred from fecal remains
- L:15 *Philipp Schwemmer, N. Markones, and S. Garthe*: Fishing activity in the German Bight (SE North Sea) and its influence on distribution and habitat use of *Larus* gulls
- L:16 *Stefan Garthe*: Spatial patterns and temporal trends in discard use by seabirds in the North Sea and Baltic Sea
- L:17 *Søren Anker Pedersen and Christian Pusch*: Integrating scientific studies and monitoring results into advice in the German EEZ
- L:18 Poster *T. Jauniaux, C. Brenez, J. Haelters, T. Jacques, J. Oser, S. Scory, and F. Coignoul*: Stranding of a humpback whale (*Megaptera novaeangliae*) on the Belgian coast
- L:19 Poster *Esther Abad, X. Valeiras, A. Serrano, F. Sánchez, I. Preciado, and I. Olaso*: Influence of fisheries discards and environmental variables on seabirds in northern Spanish waters (Cantabrian Sea)

### Theme Session M

#### Environmental and fisheries data management, access, and integration

- M:01 Poster *Teunis Jansen and Henrik Degel*: FishFrame – Estimation of discard using FishFrame 4.2
- M:02 *Henrik Degel and Teunis Jansen*: FishFrame: Fisheries and stock assessment data framework
- M:03 Poster *Julio Martínez Portela, M. Sacau, X. Cardoso, A. Gago, and J. Rodríguez*: Preliminary results of an experimental fishing targeting *Dissostichus eleginoides* in the southwest Atlantic by means of new designed pots
- M:04 Poster *Andrey Pedchenko, V. Guzenko, and A. Karsakov*: Distribution and migration of cod in the Spitsbergen area in dependence on oceanographic conditions
- M:05 *Fergal Nolan*: Confidentiality of fisheries data in the context of enforcement activities versus research
- M:06 *Taco de Bruin*: NODC-i – National infrastructure for access to oceanographic and marine data and information in the Netherlands
- M:07 Withdrawn
- M:08 Withdrawn
- M:09 Withdrawn
- M:10 *Lena Inger Larsen and Henrik Sparholt*: Measuring uncertainty in trawl surveys: implementation in DATRAS
- M:11 *A. Carpentier, C. S. Martin, B. Ernande, P. D. Eastwood, S. Mackinson, S. Vaz, F. Coppin, P. Koubbi, G. J. Meaden, N. Desroy, J.-C. Davin, J.-M. Dewarumez, A. Lefebvre, J. Morin, J.-P. Delpéch, P. R. Just, R. J. Smith, Y. Ota, and S. Harrop*: Eastern Channel Habitat Atlas for Marine Resource Management (CHARM) – From a descriptive approach (phase I) to a process-oriented approach (phase II)
- M:12 *Julie Gillin*: ICES Data Strategy, systems and services

- M:13 *Marek Ostrowski*: An object-based approach to integration of software to support management and reporting of marine ecosystem survey data
- M:14 Poster *Iyob Tsehaye and Leo A. J. Nagelkerke*: The effect of individual species variability on the use of the total catch as an indicator of trends in a multispecies fisheries in the Red Sea
- M:15 *Roy Lowry, Luis Bermudez, and John Graybeal*: Semantic interoperability: a goal for marine data management
- M:16 *Hans Mose Jensen, Julie Gillin, Jacqueline Jones, and Patrick Roose*: Overcoming obstacles to data integration: a case history
- M:17 *P. D. Cotton*: The UK marine data and information partnership
- M:18 *A. Nikouline, E. Tel, M. J. González, and M. J. García*: Use of public domain tools for Internet access of oceanographic data at IEO
- M:19 Withdrawn
- M:20 *Christophe Tufféry and Stéphanie Mahevas*: Fisheries data quality management: toward quality indicators
- M:21 Poster *Martina Hennessy, Christopher Allsop, and Ciarán Kelly*: A multi-faceted approach to data integration in the Marine Institute
- M:22 *Gerry Sullivan, Denis Tremblay, and Denis Madore*: Fisheries data management, access, integration and sharing – the Canadian Approach
- M:23 *K. De Cauwer, M. Devolder, S. Jans, A. Meerhaeghe, and S. Scory*: IDOD: an integrated marine environmental database
- M:24 Withdrawn
- M:25 Poster *Célia Teixeira and Henrique Cabral*: Flatfish fisheries in the Portuguese coast
- M:26 *A. Meerhaeghe, K. De Cauwer, M. Devolder, S. Jans, and S. Scory*: Revealing species communities in a spatial and temporal overlap
- M:27 *Tiffany C. Vance, Bernard A. Megrey, and Christopher W. Moore*: GeoModeler – Integration of a nutrient-phytoplankton-zooplankton (NPZ) model and an individual-based model (IBM) with a geographic information system (GIS)
- M:28 *Vardis M. Tsontos, D. A. Kiefer, and P. A. Livingston*: A web-based fisheries oceanographic information system for the Gulf of Alaska
- M:29 *Henrik Kjems-Nielsen, Lena Larsen, Maria Zarecki, Teunis Jansen, Brian Cowan, Peter Sandbeck, Mads Dueholm, and Ole Skov*: InterCatch – a tool for fish stock assessment, status and methods
- M:30 *K. Deneudt and E. Vanden Berghe*: Integrating environmental data from heterogeneous sources: dangers and pitfalls
- M:31 *Marieke Eleveld, Alfred Wagtendonk, Reinhold Pasterkamp, and Nils de Reus*: WATeRS: A Web Map Service with near-real time MODIS standard chlorophyll products of the North Sea
- M:32 Withdrawn
- M:33 *Hein Rune Skjoldal and Martin Holt*: NORSEPP quarterly update reports on North Sea conditions – Operational Oceanography and fish stocks
- M:34 *Dick M. A. Schaap and Catherine Maillard*: Sea-Search – SeaDataNet: development of a common data index based upon ISO19115
- M:35 Poster *Martin Hansson and Lotta Fyrberg*: Satellite monitoring of Cyanobacterial Blooms in the Baltic Sea
- M:36 Poster *Jan Szaron and Lotta Fyrberg*: SeaDataNet Pan-European infrastructure for ocean and marine data management
- M:37 Poster *Henk Heessen, Niels Daan, Paul Eastwood, Jim R. Ellis, Neil Fletcher, Remment ter Hofstede, Colin Kirk, Lena Larsen, and Henrik Sparholt*: ICES-FishMap, an electronic atlas of North Sea fish

- M:38 Poster *Remment ter Hofstede and Niels Daan*: Green light needed for quality check DATRAS; examples from the North Sea IBTS
- M:39 Poster *Michele Fichaut, A. M. Jégou, T. Carval, L. Delauney, J. F. Le Roux, E. Moussat, and J. F. Piollé*: Data Centre for Coastal Operational Oceanography
- M:40 Poster *Robert C. Groman, P. H. Wiebe, M. D. Allison, and G. Heimerdinger*: Adding interoperability features to the U.S. JGOFS/U.S. GLOBEC data management system
- M:41 Poster *Taco de Bruin*: Differences in CTD operations: significant differences in the resulting data?
- M:42 Poster *Jonas F. Henriksen and Nina Nordlund*: SONATE – SONAR effectTs on marinE life – Aiding naval officers in planning safe operation of active sonar
- M:43 Poster *Jan R. Andersen, Karen Gjertsen, Helge Sagen, and Øivind Østensen*: Coastal monitoring on the Internet
- M:44 Poster *Kareen Brøker and Jonas F. Henriksen*: Mareano WEB – GIS internet portal for marine data in Norwegian waters
- M:45 Poster *Ana Rita Vieira, I. Farias, L. Serrano Gordo, I. Figueiredo, P. Bordalo-Machado, T. Moura, A. Neves, and B. Serra-Pereira*: Can otolith shape analysis and age estimation be helpful for fisheries management of black scabbardfish, *Aphanopus carbo*, in Portuguese waters?
- M:46 Poster *Marisa Batista and Henrique Cabral*: Resource exploitation patterns of the flatfish fishery in the west coast of Portugal
- M:47 Poster *Edward Vanden Berghe*: The European Register of Marine Species: tool for data integration
- M:48 Poster *K. Deneudt and E. Vanden Berghe*: The VLIZ Maritime Boundaries Geodatabase as a biogeographical tool
- M:49 Poster *Julie Gillin and Mike Drew*: ICES Data User Survey
- M:50 Poster *Hilde van Pelt*: Development of a genetic catalogue, biological reference collections and online database of European marine fishes (FishTrace)
- M:51 *Tim Pauly, Greg Lee, John Gorbett, and Matthew Wilson*: 4-D environmental data visualization and analysis. What we have learned from the unique challenges in working with complex temporal and spatial (4-dimensional) data derived from modern fisheries sonar systems

## Theme Session N

### Technologies for monitoring fishing activities and observing catch

- N:01 *Amos Barkai*: OLRAC: Paperless solution for the collection, storage, analysis and reporting of commercial fishing data
- N:02 *G. Lemoine, I. Shepherd, N. Kourti, H. van Wimersma Greidanus, C. Cesena, and F. Thoorens*: Evaluation of vessel detection system use for monitoring of fisheries activities
- N:03 *Cato Svellingen, Bjørn Totland, Darren White, and Jan Tore Øvredal*: Automatic species recognition, length measurement and weight determination, using the CatchMeter computer vision system
- N:04 *Denis Tremblay and Gerry Sullivan*: Technologies for monitoring fishing activities and observing catch in Canada
- N:05 *K. H. Nedreaas, A. Borge, H. Godøy, and S. Aanes*: The Norwegian reference fleet: co-operation between fishermen and scientists for multiple objectives
- N:06 *Are Salthaug*: Can trawling effort be identified from satellite-based VMS data?
- N:07 *Are Salthaug and Tore Johannessen*: The Norwegian in-year monitoring fishery for sandeel in the North Sea using satellite-based VMS data and landings information
- N:08 Withdrawn

- N:09 *T. Loomis, William A. Karp, J. Gauvin, C. Colway, J. Watson, T. Meintz, and G. Williams: An innovative approach to sampling catch in the North Pacific groundfish fisheries*
- N:10 *G. Williams, T. Loomis, J. Watson, H. McElderry, J. Gauvin, and T. Meintz: Video monitoring of a trawl catcher processor in the North Pacific: A pilot study to identify requirements for catch monitoring*
- N:11 *Brendan O' Shea and Sylvia Thompson: The innovative application of vessel monitoring systems for the effective fisheries monitoring control and surveillance*
- N:12 *Bob Stanley and Tim Lamb: Integrated electronic onboard observer data collection and reporting system for Australia's Antarctic fisheries*
- N:13 Withdrawn
- N:14 *H. I. McElderry: At-sea observing using video-based electronic monitoring*
- N:15 *Leon Smith and Petur Steingrund: Data validation of gross data quantities: a practical approach*
- N:16 Poster *Christopher Zimmermann and Jens Ulleweit: An attempt to integrate logbook and VMS information: Spatial distribution of the German pelagic freezer trawler fleet's activity in two years*
- N:17 Poster *Kristin Helle: Tracking changes in the ling and tusk populations using CPUE estimates from logbook data*
- N:18 Withdrawn
- N:19 Poster *Manuel Afonso-Dias, C. Pinto, and J. M. Simões: GeoCrust 2.0 – a computer application for monitoring the Portuguese Crustacean Trawl fishery using VMS, landings and logbooks data*
- N:20 Poster *Carlos Pinto, J. M. Simões, and M. Afonso-Dias: GeoPesca – a website for the dissemination of geo-referenced information from the Portuguese crustacean trawl fishery*
- N:21 Poster *Ivor Humphreys, Conor P. Nolan, Dermot Geraghty, and Alan Reid: A new, intuitive, reliable and low cost electronic fish measuring board*
- N:22 Poster *Leon Smith and Emil Petersen: Portable scientific catch registration system on a PC-platform*

### Theme Session O

#### **Spatio-temporal characteristics of fish populations in relation to environmental forcing functions as a component of ecosystem-based assessment: Effects on catchability**

- O:01 *Michael G. Frisk, Steve J. D. Martell, Kathy Sosebee, and Thomas J. Miller: An age-structured model of winter skate abundance in the western Atlantic: sustainability and uncertainty*
- O:02 *B. M. Shatokhin, D. N. Klochkov, B. N. Kotenev, and V. M. Borisov: Assessment of the NEA cod (*Gadus morhua*) stock on the basis of the satellite synoptical monitoring and informational technology*
- O:03 *Emma Orlova, A. Dolgov, V. Boitsov, N. Ushakov, and G. Rudneva: Long-term variations in the relationships between the main components of the Barents Sea ecosystem (cod and capelin), ecological and physiological aspects of their interactions*
- O:04 *S. M. Kasatkina: Spatial distribution characteristics of fishing species in relation to trawl catchability as an important component in stock assessment and management*
- O:05 *Mathieu Woillez, P. Petitgas, J. Rivoirard, J.-C. Poulard, P. Fernandes, R. ter Hofstede, K. Korsbrekke, A. Orłowski, M. T. Spedicato, and C.-Y. Politou: Relationships between population spatial occupation and population dynamics*
- O:06 *Sandrine Vaz, S. Pavoine, P. Koubbi, C. Loots, and F. Coppin: Comparative study of habitat modelling strategies to investigate marine fish life cycle: A case study on whiting in the Eastern English Channel*



- O:07 *K. Moumouni, S. Mahévas, P. Bellois, L. Penors, O. Le Pape, and J. F. Holley*: Assessment of the influence of some environmental variables on trawl catches using a semiparametric mixed model
- O:08 *Jennifer L. Miksis-Olds and Kevin D. Stokesbury*: An autonomous system for evaluating groundfish populations: the Ocean Groundfish Observatory
- O:09 *Lise Langard, Leif Nøttestad, Arne Johannessen, Anders Fernö, Jan Tore Øvredal, Rune Vabø, Georg Skaret, and Gro Nilsson*: How and why acoustic detectability and catchability of herring change with individual motivation and physiological state in a variable environment: a multi-scale study on a local herring population in south-western Norway
- O:10 Withdrawn
- O:11 *E. W. North, M. Christman, J. H. Vølstad, R. R. Hood, T. F. Gross, L. Zhong, Z. Schlag, D. Lewis, J. Dew, M. Li, J. L. Manuel, R. I. E. Newell, and V. S. Kennedy*: Investigating the influence of environmental variability and larval behavior on oyster populations with linked larval transport and fisheries demographic models
- O:12 *Douglas C. Reese and R. D. Brodeur*: Spatial and temporal analysis of nekton community dynamics in a variable environment: changes in the nekton dominance structure associated with persistent biological hotspots
- O:13 *A. M. Brown, J. M. Bellido, V. Valavanis, and A. Giráldez*: Investigating the distribution of small pelagic fish in Spanish Mediterranean waters using environmental modelling and essential fish habitat mapping
- O:14 Withdrawn
- O:15 Withdrawn
- O:16 Withdrawn
- O:17 *Patrice Brehmer, C. Laurent, A. Achury, F. Gerlotto*: School type: a phenotypic result of behavioural response to independent stimuli, as demonstrated by a comparative observation of the schooling behaviour of small pelagic fish
- O:18 Poster *Dmitri Vasilyev*: Change in catchability caused by year class peculiarities: how stock assessment based on separable cohort models is able to take it into account?
- O:19 Poster *B. Guijarro, E. Massuti, J. Moranta, P. Oliver, J. M. Hidalgo, and A. Carbonell*: Spatio-temporal population dynamics of *Aristeus antennatus* in relation to environmental factors in the Balearic Islands (Western Mediterranean sea)
- O:20 Withdrawn
- O:21 Poster *Igor Studenov*: Monitoring of the Atlantic salmon smolt's migration in a large river system

### Theme Session P

#### Integrated assessments in support of regional seas ecosystem advice – beyond quality status reporting

- P:01 *Georgi M. Daskalov and Stephen Mackinson*: Abundance and trophic interactions in North Sea fish
- P:02 *Niels Daan*: What is a “large fish”? – taking a species perspective
- P:03 *Christian Möllmann, B. Müller-Karulis, R. Diekmann, J. Flinkman, G. Kornilovs, E. Lysiak-Pastuszak, J. Modin, M. Plikshts, Y. Walther, and N. Wasmund*: An integrated ecosystem assessment of the Central Baltic Sea and the Gulf of Riga
- P:04 *Doug Beare et al.*: Building multi-discipline, multivariate databases for use in integrated assessments: experiences and recommendations
- P:05 *D. K. Mills, M. Devlin, C. Kirk, and S. J. Malcolm*: Towards improved monitoring and assessment of marine eutrophication
- P:06 *P. Larcombe et al.*: Marine environmental change over decades to millennia – an evaluation of 'proxy parameters' and their potential use in understanding the state of the marine ecosystem

- P:07 *E Garnacho and P. Kershaw*: Integrated assessment of chemical pollution pressures and state changes
- P:08 *A. J. Kenny, P. J. Kershaw, and D. Beare*: Integrated assessment – The REGNS experiment – lessons learnt
- P:09 *Andrew Kenny et al.*: Integrated assessment of the North Sea to identify the relationships between human pressures and ecosystem state changes – implications for marine management
- P:10 *Michael Langston et al.*: Combinatorial algorithms and high performance implementations for elucidating complex ecosystem relationships from North Sea historical data
- P:11 Poster *Esther Abad, J. M. Bellido, A. Punzón, V. Trujillo, and P. Abaunza*: What can we learn after the Prestige oil spill?. Recommendations for fisheries management at level of regional seas ecosystems
- P:12 Poster *E. Cruz and P. Walker*: The North Sea as a case study for a regional implementation of Integrated assessment with an ecosystem approach – how to communicate the data successfully

### Theme Session Q

#### Use of data storage tags to reveal aspects of fish behaviour important for fisheries management

- Q:01 *Rodney Alan Rountree, Joachim Paul Gröger, and David Martins*: Extraction of daily activity pattern and vertical migration behavior from the benthic fish, *Lophius americanus*, based on depth analysis from data storage tags
- Q:02 *Craig Mills, D. Righton, H.-H. Hinrichsen, S. Neuenfeldt, and K. Andersen*: Habitat occupation of cod in the eastern Baltic: non-random selection in a dynamic environment
- Q:03 *Julian Metcalfe, D. A. Righton, and E. Hunter*: Designing fish-tagging programmes to understand fish movements and population dynamics
- Q:04 *David Righton*: “All men have need of the cods (sic)” (Homer, the Odyssey) or “An overview of the results of the EU-CODYSSSEY project”
- Q:05 *Ken H. Andersen, A. Nielsen, U. H. Thygesen, and H.-H. Hinrichsen*: Geolocation of tagged Baltic Cod using the particle filter
- Q:06 *H. Svedäng, D. Righton, and P. Jonsson*: Return migrations of Atlantic cod (*Gadus morhua* L.) to the North Sea evidenced by archival tagging of cod off the eastern Skagerrak coast
- Q:07 *Kathrine Michalsen, Torild Johansen, and Edda Johannesen*: Linking tagging technology with molecular genetics to gain insight in the spatial dynamics of two stocks of cod in Northeast Atlantic waters
- Q:08 Withdrawn
- Q:09 *Boonchai Stensholt, Åge Høines, and Yoshie Kasajima*: Fish migration in oscillating stratified water masses
- Q:10 *Vilhjálmur Thorsteinsson and Kristinn Sæmundsson*: Vertical distribution and variable mortality rates of adult cod (*Gadus morhua*) in Icelandic waters
- Q:11 Withdrawn
- Q:12 *Marianne Holm, Jan A. Jacobsen, Johannes Sturlaugsson, and J. C. Holst*: Behaviour of Atlantic salmon (*Salmo salar* L.) recorded by data storage tags in the NE Atlantic – implications for interception by pelagic trawls
- Q:13 *Jeroen van der Kooij, David Righton, Kathrine Michalsen, Vilhjalmur Thorsteinsson, Henrik Svedang, and Francis Neat*: Observations of cod behaviour reveal insights into the function and properties of the swimbladder under pressure
- Q:14 *Steven X. Cadrin and Joshua Moser*: Partitioning on-bottom and off-bottom behavior: a case study with yellowtail flounder off New England
- Q:15 Withdrawn

- Q:16 *Conrad W. Recksiek, G. Fischer, H. T. Rossby, S. X. Cadrin, and P. Kasturi:* Development and application of 'FRAFOS' tags for studying fish movement
- Q:17 *Frank J. O'Brien, M. L. Domeier, C. H. Lam, and V. M. Tsontos:* Description and validation of an improved algorithm for automated archival tag geolocational estimation based on the matching of satellite SST and in-situ temperature data: application to striped marlin (*Tetrapturus audax*) in the North Pacific
- Q:18 *David W. Sims and Julian D. Metcalfe:* Understanding the behavioural rules of free-ranging marine vertebrates from analysis of electronic tagging data: the Eutopia project
- Q:19 Poster *Daniel G. Nichol, T. Honkalehto, G. G. Thompson, and D. A. Somerton:* The proximity of Pacific cod to the sea floor: An investigation into the availability of Pacific cod to survey bottom trawl gear
- Q:20 Poster *Sigurdur Thor Jonsson and Hlynur Armannsson:* Vertical migrations of saithe (*Pollachius virens*) in Icelandic waters: diel and seasonal differences, extent and duration of directed runs
- Q:21 Poster *Hlynur Armannsson, Sigurdur Th. Jonsson, Gudrun Marteinsdottir, and John D. Neilson:* New and conventional mark-recapture techniques combined to provide comprehensive information on the habitat preferences and migration of saithe/pollock (*Pollachius virens*) in Icelandic waters
- Q:22 Poster *Ole Thomas Albert and Tone Vollen:* Use of pitch and roll DST to distinguish between pelagic and along-the-bottom vertical migrations of Greenland halibut

### Theme Session R

#### ICES advice in a changing world!

- R:01 *Cornelius Hammer and Christian von Dorrien:* Understanding the mechanisms of stock recovery – EU Project UNCOVER will develop recovery strategies
- R:02 *Jake Rice:* The global marine biodiversity agenda, fisheries science, and ICES advice
- R:03 *Jake Rice and Stuart Rogers:* ICES Advice and the ecosystem approach – how are we actually doing?
- R:04 *Oleg V. Titov, V. K. Ozhigin, E. V. Gusev, and V. A. Ivshin:* Theory on functioning of the Barents Sea ecosystem: fishery and oceanographic aspects
- R:05 *Mark Dickey-Collas, Dankert Skagen, and John Simmonds:* Harvest control rules and changing productivity: the working example of North Sea herring.
- R:06 Withdrawn
- R:07 *Lisette Enserink:* Links between OSPAR and ICES
- R:08 *R. Aps, L. Kell, H. Lassen, and I. Liiv:* ICES scientific advice as a basis for negotiating the fisheries management decisions
- R:09 *Niels Daan and Adriaan D. Rijnsdorp:* Effort management for mixed fisheries in EU waters: a viable alternative for failing TAC management?
- R:10 *Sigrid Lehuta, P. Petitgas, and S. Mahévas:* Assessing the potential effect of management scenarios for anchovy fishery of the Bay of Biscay using ISIS-Fish simulation tool
- R:11 *Brian J. Rothschild:* Environmental fisheries interactions in management advice
- R:12 *Anne Christine Brusendorff and Juha-Markku Leppänen:* From technical and scientific advice to integrated assessments – evolution of co-operation between HELCOM and ICES
- R:13 *A. P. Oost and Paddy Walker:* Other fish to fry, or how to reach sustainable fishery in the North Sea during a period of climate change?
- R:14 *Laurence Thomas Kell and Jean-Marc Fromentin:* Managing without prediction
- R:15 Poster *Kevin D. E. Stokesbury, Bradley P. Harris, Michael C. Marino II, and Jacob I. Nogueira:* Sea scallop, *Placopecten magellanicus*, mass mortality in the Nantucket Lightship marine protected area of Georges Bank

