Contributions to the 2004 Annual Science Conference

Gen	General Assembly Reports and Papers of General Interest
Del	Delegates Meetings
Fi	Finance Committee
Pub	Publications Committee
A	Consultative Committee
MCAP	Management Committee for the Advisory Process
ACFM	Advisory Committee on Fishery Management Assessment Working Group Reports
ACME	Advisory Committee on the Marine Environment-related Working Group Reports
ACE	Advisory Committee on Ecosystems
В	Fisheries Technology Committee
C	Oceanography Committee
D	Resource Management Committee
E	Marine Habitat Committee
F	Mariculture Committee
G	Living Resources Committee
Н	Baltic Committee
I	Diadromous Fish Committee
Theme Se	ssions
J	Prey-Predator Interactions in Dynamic Environments: Methods, Approaches and Key Issues for the Study of Recruitment Processes
K	The Life History, Dynamics and Exploitation of Living Marine Resources: Advances in Knowledge and Methodology
L	Baltic Sea Ecosystem Structure and Dynamics – Consequences of Physical and Anthropogenic Forcing
M	Regime Shifts in the North Atlantic Ocean: Coherent or Chaotic?
N	Oceanographic Processes Related to the Continental Slopes of the North Atlantic
O	Larval Fish Growth, Feeding and Recruitment in Relation to Patterns and Activity in Plankton Communities
P	Physical-biological Interactions: Experiments, Models and Observation
Q	Recent Advances in the Oceanography and Biology of the Iberian Waters and Adjacent Shelf Seas: Results from Integrated Multidisciplinary Projects
R	New Developments in Fisheries Acoustics: Applications in Bottom Trawl Surveys and Multi-frequency Species Identification
S	Use of Estuarine and Freshwaters Habitats and the way that Freshwater and Diadromous Fish use Them
T	Acoustic Seabed Classification – Applications in Fisheries Science and Ecosystem Studies
V	Mariculture in the Coastal Zone: Sustainability, Perspective and Limitations
Y	Conserving Biodiversity and Sustaining Fisheries through MPAs
Z	How Useful are Biological Effects Measurements in Marine Ecosystem Management?
AA	Cold Water Corals and Structural Habitats in Deep Water: Biology, Threats and Protection
CC	Cephalopod Stocks: Review, Analysis, Assessment, and Sustainable Management
DD	Mortality and Linkages between Fish Eggs/Larvae and their Predators in Marine Ecosystems – A Multidisciplinary Approach
EE	Stock Identification Methods
FF	Modelling Marine Ecosystems and their Exploitation

MCAP

MCAP:01	MCAP report from January meeting
MCAP:02	MCAP-MICC report from March
MCAP:03	Study Group on Quality Assurance [SGQUA]
MCAP:04	MCAP report from April meeting

ACFM

ACFM:01	Working Group on the Assessment of Northern Shelf Demersal Stocks [WGNSDS]
ACFM:02	Working Group on the Assessment of Southern Shelf Stocks of Hake, Monk and Megrim [WGHMM]
ACFM:03	Working Group on the Assessment of Southern Shelf Demersal Stocks [WGSSDS]
ACFM:04	Study Group on Sea Bass [SGBASS]
ACFM:05 Ref. G	Pandalus Assessment Working Group [WGPAND]
ACFM:06 Ref. D, G	ICES/NAFO Working Group on Harp and Hooded Seals [WGHARP]
ACFM:07	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak [WGNSSK]
ACFM:08	Working Group on the Assessment of Mackerel, Horse Mackerel, Sardine, and Anchovy
	[WGMHSA]
ACFM:09 Ref. G	ICES/EIFAC Working Group on Eels [WGEEL]
ACFM:10	ICES/NSCFP Study Group on the Incorporation of Additional Information from the Fishing Industry into Fish Stock Assessments [SGFI]
ACFM:11 Ref. D	Study Group on the Development of Fishery-based Forecasts [SGDFF]
ACFM:12	Workshop on Sampling and Calculation Methodology for Fisheries Data [WKSCMFD)
ACFM:13	Planning Group on Commercial Catch, Discards and Biological Sampling [PGCCDBS]
ACFM:14 Ref. AFWG, WGNPBW, WGMHSA	Study Group on Assessment Methods Applicable to Assessment of Norwegian Spring Spawning Herring and Blue Whiting Stock [SGAMHBW]
ACFM:15 Ref. G	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources [WGDEEP]
ACFM:16	Study Group for Long Term Advice [SGLTA]
ACFM:17 Ref. H, WGBFAS	Study Group on Closed Spawning Areas of Eastern Baltic Cod [SGCSA]
ACFM:18	Herring Assessment Working Group for the Area South of 62°N [HAWG]
ACFM:19	Working Group on Nephrops Stocks [WGNEPH]
ACFM:20 Ref. I	Working Group on North Atlantic Salmon [WGNAS]
ACFM:21 Ref. G. H	Study Group on Ageing Issues in Baltic Cod [SGABC]
ACFM:22 Ref. H	Baltic Fisheries Assessment Working Group [WGBFAS]
ACFM:23 Ref. I	Baltic Salmon and Trout Assessment Working Group [WGBAST]
ACFM:24	Northern Pelagic and Blue Whiting Fisheries Working Group [WGNPBW]
ACFM:25	North-Western Working Group [NWWG]
ACFM:26	Fishery Statistics Liaison Working Group [WGSTAL]
ACFM:27	Working Group on the Assessment of Northern Shelf Demersal Stocks [WGNSDS]
ACFM:28	Arctic Fisheries Working Group [AFWG]

ACFM:29	Working Group on the Assessment of Southern Shelf Stocks of Hake, Monk and Megrim [WGHMM]	
ACFM:30 Ref. G,	I ICES/EIFAC Working Group on Eels [WGEEL]	
ACFM:31 Ref. G	Study Group on Sea Bass [SGBASS]	
ACFM:32 Ref. D. G	ICES/NAFO Working Group on Harp and Hooded Seals [WGHARP]	
ACFM:33	Expert Group on Rockall Haddock Recovery Plans following a request for advice made on behalf of the European Community and Russian Federation	
Coded for 2005	Working Group on the Assessment of Southern Shelf Demersal Stocks [WGSSDS] (Meeting 29 June to 8 July 2004)	
Coded for 2005	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak [WGNSSK] (Meeting from 7–16 September 2004)	
Coded for 2005	Working Group on the Assessment of Mackerel, Horse Mackerel, Sardine and Anchovy [WGMHSA] (Meeting from 7–16 September 2004)	
Coded for 2005	Pandalus Assessment Working Group [WGPAND] (Meeting 27 October to 5 November 2004)	
Coded for 2005	Study Group on Stock Identity and Management Units of Redfishes [SGIMUR] (Meeting from 31 August to 3 September 2004)	
ACME		
ACME:01	Steering Group on Quality Assurance of Biological Measurements in the Northeast Atlantic [SGQAE]	
ACME:02 Ref. H	The ICES/HELCOM Steering Group on Quality Assurance of Chemical Measurements in the Baltic Sea [SGQAC]	
ACME:03 Ref. C, E, H	The ICES/HELCOM Steering Group on Quality Assurance of Biological Measurements in the Baltic Sea [SGQAB]	
ACME:04	ICES/IOC/IMO Working Group on Ballast and Other Ship Vectors [WGBOSV]	
ACME:05 Ref. E, G	Working Group on Introductions and Transfers of Marine Organisms [WGITMO]	
ACME:06 Ref. E	Joint ICES/OSPAR Workshop on Integrated Monitoring of Contaminants and their Effects in Coastal and Open-Sea Areas [WKIMON]	

ACE

ACE:01 Ref. E, WGECO, BEWG	Study Group on Ecological Quality Objectives for Sensitive and for Opportunistic Benthos Species [SGSOBS]
ACE:02 Ref. E, G	Working Group on Marine Mammal Ecology (WGMME)
ACE:03 Ref. D, E, G	Working Group on Ecosystem Effects of Fishing Activities [WGECO]
ACE:04 Ref. ACME, C, E	Study Group to Review Ecological Quality Objectives for Eutrophication [SGEUT]
ACE:05 Ref. ACFM,	Study Group on Management of Integrated Data [SGMID]

ACME

ACE:06 The Regional Ecosystem Study Group for the North Sea [REGNS]

ACE:07 Ref. E Study Group on Cold Water Corals [SGCOR]

Fisheries Technology Committee (B)

B:01 Ref. G Study Group on Survey Trawl Gear for the IBTS Western and Southern Areas

[SGSTG]

B:02 Study Group on Collection of Acoustic Data from Fishing Vessels [SGAFV]

B:03 Study Group on Acoustic Seabed Classification [SGASC]

Ref. ACE, E

B:04 Planning Group on the HAC Data Exchange Format [PGHAC]

B:05 ICES-FAO Working Group on Fishing Technology and Fish Behaviour

Ref. ACE [WGFTFB]

B:06 Working Group on Fisheries Acoustics Science and Technology [WGFAST]

B:07 Workshop on Survey Design and Data Analysis [WKSDDA]

Ref. D, G

B:08 Ref. H Study Group of Target Strength Estimation in the Baltic Sea [SGTSEB]

B:09 Study Group on Unaccounted Fishing Mortality [SGUFM]

Ref. ACFM

Oceanography Committee (C)

C:01 Working Group of Phytoplankton Ecology [WGPE]

Ref. ACME

C:02 Workshop on Future Directions in Modelling Physical-Biological Interactions

[WKFDPBI]

C:03 Working Group on Modelling of Physical/Biological Interactions [WGPBI]

C:04 Ref. ICES-EuroGOOS Planning Group on the North Sea Pilot Project (NORSEPP)

ACFM, ACME, [PGNSP]

ACE, D, E, G

C:05 Ref. Working Group on Seabird Ecology [WGSE]

ACME, ACE

C:06 Working Group on Oceanic Hydrography [WGOH]

Ref. ACME

C:07 Ref. Working Group on Zooplankton Ecology [WGZE]

ACME, ACE

C:08 ICES-IOC Working Group on Harmful Algal Bloom Dynamics [WGHABD]

Ref. ACME

C:09 Working Group on Recruitment Processes [WGRP]

C:10 Ref. ICES-IOC Steering Group on GOOS [SGGOOS]

ACME, ACE

C:11 Working Group on Marine Data Management [WGMDM]

C:12 ICES-IOC Study Group on the Development of Marine Data Exchange Systems

using XML [SGXML]

C:13 ICES/GLOBEC Working Group on Cod and Climate Change

C:14 Ref. H Workshop on New and Classic Techniques for the Determination of Numerical

Abundance and Biovolume of HAB-species - evaluation of the cost, time-

efficiency and intercalibration methods [WKNCT]

C:15 Steering Group for the ICES/GLOBEC North Atlantic Programme and Regional

Ref. Bureau Office [SGNARO]

Resource Management Committee (D)

D:01 Study Group on Redfish Stocks [SGRS]

Ref. ACFM

D:02 Study Group on Growth, Maturity and Condition in Stock Projections

Ref. ACFM, C, [SGGROMAT]

G, H

D:03 Working Group on Methods on Fish Stock Assessments [WGMG]

Ref. ACFM, G

D:04 Workshop on Advanced Fish Stock Assessment Techniques [WKAFAT]

Ref. ACFM, G

D:05 International Bottom Trawl Survey Working Group [IBTSWG]

D:06 Working Group on Fishery Systems [WGFS]

Ref. ACFM,

ACE

D:07 Planning Group on Northeast Atlantic Pelagic Ecosystem Surveys [PGNAPES]

Ref. ACFM, ACE, G

D:08 Study Group on Multispecies Assessment in the North Sea [SGMSNS]

Ref. ACFM, ACE, G

Coded for 2005 Study Group on Age-length Structured Assessment Models [SGASAM] (Meeting

6–10 December 2004)

Marine Habitat Committee (E)

E:01 Ref. Working Group on the Statistical Aspects of Environmental Monitoring

ACME, ACE [WGSAEM]

E:02 Ref. Working Group on Marine Sediments in Relation to Pollution [WGMS]

ACME

E:03 Marine Chemistry Working Group [MCWG]

Ref. ACME, C

E:04 Working Group on Biological Effects of Contaminants [WGBEC]

Ref. ACME

E:05 Study Group on the North Sea Benthos Project 2000 [SGNSBP]

Ref. ACME,

ACE

E:06 Working Group on Marine Habitat Mapping [WGMHM]

Ref. ACE, B

E:07 Working Group on the Effects of Extraction of Marine Sediments on the Marine

Ref. ACME, Ecosystem [WGEXT]

ACE, D

E:08 Study Group on Information Needs for Coastal Zone Management [SGINC]

Ref, ACME, F

E:09 Benthos Ecology Working Group [BEWG]

Ref. ACME, ACE, C

Mariculture Committee (F)

F:01 Working Group on Pathology and Diseases of Marine Organisms [WGPDMO

Ref. ACME, E,

Ι

F:02 Working Group on Environmental Interactions of Mariculture [WGEIM]

Ref. ACME

F:03 Working Group on Marine Fish Culture [WGMAFC]

Ref. ACME, I

F:04 Working Group on the Application of Genetics in Fisheries and Mariculture

Ref. ACFM, [WGAGFM]

ACME, I

F:05 Working Group on Marine Shellfish Culture [WGMASC]

Ref. ACME, G

Living Resources Committee (G)

G:01 Workshop on Mackerel and Horse Mackerel Egg Staging and Identification

[WKMHME]

G:02 Working Group on Cephalopod Fisheries and Life History [WGCEPH]

Ref. ACFM,

ACE

G:03 Planning Group on North Sea Cod and Plaice Egg Surveys in the North Sea

Ref. D [PGEGGS]

G:04 Working Group on Beam Trawl Surveys [WGBEAM]

Ref. ACFM, D

G:05 Planning Group for Herring Surveys [PGHERS]

Ref. D, HAWG

G:06 Study Group on Regional Small Pelagic Fish [SGRESP]

Ref. ACFM.

ACE

G:07 Planning Group on Aerial and Acoustic Surveys for Mackerel [PGAAM]

Ref. ACFM, B

G:08 Baltic International Fish Survey Working Group [WGBIFS]

Ref. D, H

G:09 Working Group on Fish Ecology [WGFE]

Ref. ACE, D, I

G:10 Ref. D	Working Group on Mackerel and Horse Mackerel Egg Surveys [WGMEGS]
G:11	Working Group on Elasmobranch Fishes [WGEF]
G:12	Stock Identification Methods Working Group [SIMWG]
G:13 Ref. D	Study Group on the Biology and Life History of Crabs [SGCRAB]
Coded for 2005	Working Group on ${\it Crangon}$ Fisheries and Life History [WGCRAN] (Meeting 4–9 October 2004)
Coded for 2005	Study Group on the Estimation of Spawning Stock Biomass of Sardine and Anchovy [SGSBSA] (Meeting in October/November 2004)

Baltic Committee (H)

H:01	Study Group on Baltic Sea Productivity Issues in support of the BSRP [SGPROD]
H:02	Study Group on Baltic Ecosystem Health Issues in support of the BSRP [SGEH]
H:03	Study Group on Baltic Ecosystem Model Issues in support of the BSRP [SGBEM]
H:04 Ref. ACE	Study Group on Baltic Fish and Fisheries Issues in the BSRP [SGBFFI]
H:05	ICES-IOC-SCOR Study Group on GEOHAB Implementation in the Baltic [SGGIB]
H:06	Study Group on Multispecies Assessment in the Baltic [SGMAB]

Diadromous Fish Committee (I)

I:01 Ref. ACFM, G	Study Group on the By-catch of Salmon in Pelagic Trawl Fisheries [SGBYSAL]
I:02 Ref. ACFM, ACE, G	Study Group on the Status of Diadromous Fish Species [SGSDFS]
To be coded for 2005	Study Group on Salmon Scale Readings [SGSSR] (Meeting 15–16 November 2004)

Prey-Predator Interactions in Dynamic Environments: Methods, Approaches and Key Issues for the Study of Recruitment Processes (J)

Code	First Author, Co-Author(s) and Title of Abstract
J:01	Henn Ojaveer, M. Simm, and A. Lankov: Potential impact of Cercopagis pengoi to fish recruitment in the Gulf of Riga (Baltic Sea)
J:02	D. Mountain, J. Green, J. Sibunka, and D. Johnson: Early larval mortality of cod and haddock on Georges Bank, 1995–1999
J:03	Withdrawn
J:04	Xabier Irigoien, Andres Uriarte, Maria Santos, Iñaki Artetxe, A. Albaina, Leire Ibaibarriaga, Lorenzo Motos, Angel Lopez Urrutia, and Anthony Richardson: Exploring loopholes: a mechanism for anchovy survival in the Bay of Biscay
J:05	Edward J. Martino and E. D. Houde: Environmental controls and density dependent constraints in the recruitment process of Striped Bass in the estuarine transition zone of Chesapeake Bay
J:06	Leonardo R. Castro, Alejandra Llanos, María C. Krautz, and Gabriel Claramunt: Inter-population and intra-seasonal variations in egg quality and yolk sac larval traits of the Anchoveta Engraulis ringens along Chile
J:07	Begoña Villamor, C. Gonzalez-Pola, A. Lavín, L. Valdés, A. Lago de Lanzós, C. Franco, J. M. Cabanas, M. Bernal, and E. Alvarez: Distribution and survival of larvae of mackerel (Scomber scombrus) in the North and Northwest of the Iberian Peninsula, in relation to environmental conditions during spring 2000
J:08	Jesper Boje and Claus S. Simonsen: Settling and factors affecting 0-group distribution of Greenland halibut, R. hippoglossoides (Walbaum), in West Greenland waters.
J:09	Withdrawn
J:10	E.W. North, R. R. Hood, M. Li, T. Gross, and L. Zhong: Assessing precision in models of larval transport: the effect of simulated circulation patterns and biological processes
J:11	R. Christopher Chambers and David A. Witting: Size-based predation risk in young-of-year Atlantic tomcod in the Hudson River Estuary, USA
J:12	Kristina Barz and Hans-Jürgen Hirche: Predatory impact of Aurelia aurtia on the zooplankton community in the Bornholm Basin (central Baltic)
J:13	Pierre Petitgas, Pierre Beillois, Patrick Grellier, Jacques Massé: On the importance of adults in maintaining population habitat occupation of recruits as deduced from observed schooling behaviour of age-0 anchovy in the bay of Biscay
J:14	Gwen Allain, Pierre Petitgas, Pascal Lazure, Patrick Grellier: Use of a biophysical larval drift growth and survival model to explore the interaction between a stock and its environment: anchovy recruitment in Biscay
J:15 Poster	J.O. Schmidt and HH. Hinrichsen: Variance of nauplii abundance and diversity influences fish larval survival: a theoretical approach
J:16 Poster	M. Christina Krautz, Leonardo R. Castro, and Margarita Gonzalez: Euphausiid predation on anchoveta (Engraulis Ringens) eggs in the spawning zone of northern Chile and its incidence on the natural egg mortality estimations
J:17 Poster	Withdrawn
J:18 Poster	Withdrawn
J:19 Poster	Carolina Parada and S. Hinckley: A pre-recruitment index for walleye pollock in the Gulf of Alaska using a biophysical model

The Life History, Dynamics and Exploitation of Living Marine Resources: Advances in Knowledge and Methodology (\mathbf{K})

K:01	Max Cardinale, J. Hjelm, and M. Casini: Effect of temperature on recruitment success of herring and sprat stocks in the North Atlantic
K:02	V.M. Borisov, A. A. Elizarov, and V. D. Nesterov: Environment is determinative for recruitment formation of the NEA cod (Gadus morhua l.) stock
K:03	Christoph Petereit, C. Clemmesen, G. Kraus, and D. Schnack: High resolution temperature influences on egg and early larval development of Baltic cod (Gadus morhua)
K:04	Vladimir Laptikhovsky: A trophic ecology and reproductive investment in two grenadier sibling - species (Macrouridae, Pisces) in deep waters of the Southwest Atlantic.
K:05	<i>Ewan Hunter and Audrey Darnaude</i> : Determination of plaice lifetime movements in the North Sea by linking natural and electronic data records
K:06	<i>Kerstin Söderberg and A. Bignert</i> : Site specific factors necessary to consider in temporal trend studies of fish populations?
K:07	Frøydis Rist and Aril Slotte: Diet of cod, haddock and saithe related to the spawning migration of Barents Sea capelin
K:08	Silvia Lorenzo-Abalde, África González-Fernández, and José M. Fuentes: Identification of mussel larvae from plankton samples by monoclonal antibodies
K:09	Mike Armstrong, Peter Bromley, and Pieter-Jan Schön: Changes in growth and maturity in expanding and declining stocks: evidence from haddock, cod and whiting populations in the Irish and Celtic Seas
K:10	Karin Troost, Pauline Kamermans, Eize J. Stamhuis, and Wim J. Wolff: Are introduced oysters (Crassostrea gigas) hampering the recruitment of indigenous bivalve filter feeders?
K:11	Feodor Litvinov: The dense male aggregation over seamounts as an integral part of species range in the Blue shark Prionace glauca
K:12	Gerd Kraus: Atresia as a mechanism influencing fecundity of Eastern Baltic cod (Gadus morhua)
K:13	A. D. Rijnsdorp, O. A. Van Keeken, and L. J. Bolle: Changes in the productivity of the southeastern North Sea as reflected in the growth of plaice and sole
K:14	Withdrawn
K:15	Keith Reid and Eugene J. Murphy: Measuring life-history parameters of Antarctic krill using upper-trophic level predators
K:16	Tristan Rouyer, Emmanuel Chassot, and Didier Gascuel: Analyses of ICES stock assessment procedures and proposals for methodological improvements.
K:17	Marie Lesueur, T. Rouyer, and D. Gascuel: Control of assessment for demersal fish stocks in ICES area: analysis for 36 stocks and investigation of some potential bias sources
K:18	Withdrawn
K:19	F. Patokina and Feodor Litvinov: Food composition and distribution of demersal elasmobranches on shelf and upper slope of North-West Africa
K:20	H. Murua and L. Motos: Variability of the European hake (Merluccius merluccius) egg production in the Bay of Biscay
K:21	T. E. Helser, H. L. Lai, and I. J. Stewart: A Bayesian hierarchical meta-analysis of growth on the U.S. west coast helf Sebastes complex
K:22	Joana F. Cardoso, José F. Loff, Ana R. Martins and Henk W. van der Veer: Spatial and temporal variability in growth and reproduction of the Japanese cupped oyster Crassostrea gigas (Thunberg, 1793) as indicators of the adaptation to northern European waters
K:23	Withdrawn
K:24	Enrique Portilla, E. McKenzie, and D. Beare: Inter stage egg mortality estimation using birth death process models: a worked example using Atlantic mackerel

K:25	O. A. Van Keeken, M. Van Hoppe, R. E. Grift, and A. D. Rijnsdorp: The effect of changes in the spatial distribution of juvenile plaice in the North Sea (<i>Pleuronectes platessa</i>) on the management of its stocks.
K:26	Bjarte Bogstad, Daniel Howell, and Morten Nygaard Åsnes: A closed life-cycle model for Northeast Arctic cod
K:27	M. O. Hammill: Grey seal teeth as indicators of climate variability
K:28	Christian Jørgensen, Bruno Ernande, Øyvind Fiksen, and Ulf Dieckmann: Skipped spawning is common for the Northeast Arctic cod in a life-history energy allocation model
K:29	Geir Ottersen, Dag Ø. Hjermann and Nils Chr. Stenseth: Dramatic changes in spawning stock agestructure of Barents Sea cod
K:30	Höskuldur Björnsson and Ólafur K. Pálsson: Distribution patterns and dynamics of fish stocks under recent climate change in Icelandic waters
K:31	Konstantin Drevetnyak, Kjell H. Nedreaas, and Anton Kluev: Spatial migration pattern of deep-sea redfish (Sebastes mentella Travin) of the Norwegian-Barents population from survey data
K:32	Rune Vabø and G. Skaret: Simulating collective decisions and sorting in schools of spawning herring
K:33	Withdrawn
K:34	Arnaud Bertrand, José Cordova, Maria Angela Barbieri, Francisco Leiva and François Gerlotto: Contrasted day and night ecological preferenda of jack mackerel (<i>Trachurus murphyi</i>) in the Humboldt Current system: a 'unique' behavioural adaptation to cyclic availability of preys
K:35	Mikko Heino and Ulf Dieckmann: Exploitation as a driving force of life history evolution: methods and empirical analyses
K:36	Kevin D. E Stokesbury, Bradley P. Harris, Michael C. Marino II, and Jacob I. Nogueira: Estimation of sea scallop abundance using a video survey in off-shore USA waters
K:37	Bradley P. Harris and Kevin D.E. Stokesbury: Comparison of tag-recapture shell growth of sea scallops (Placopecten magellanicus) in two areas of western Georges Bank
K:38	Mariano Gutierrez, Sophie Bertrand and François Gerlotto: School typology and 3D dynamics: study of the behavioural mechanisms allowing adaptation of collective structures to environmental changes
K:39	Jorge Castillo, Mauricio Braun, and María Angela Barbieri: Impacts of early stage, adult biomass and spatial coverage in the captures of Spanish Sardine (Sardinops sagax) and Anchoveta (Engraulis ringens) in northern of Chile.
K:40	S. Vaz, A. Carpentier, and F. Coppin: Eastern English Channel Fish Community from 1988 to 2003 and its Relation to the Environment
K:41	Withdrawn
K:42	Jon Brodziak, Steve Cadrin, Christopher Legault, and Steve Murawski: Goals and strategies for rebuilding New England groundfish stocks
K:43	Georg H. Engelhard and Mikko Heino: Dynamics in frequency of skipped reproduction in Norwegian spring-spawning herring
K:44 Poster	Konstantin Sokolov: Discards of the NEA cod during bottom trawl fishery in the Barents Sea and adjacent waters in 1983-2002
K:45 Poster	Dmitri Vasilyev: Winsorization: does it help in cohort models?
K:46 Poster	Dariusz Fey, J. Hare, G. Bath Martin, J. Morris, W. Hettler: Validation of back-calculation methods for laboratory reared spot (Leiostomus xanthurus)
K:47 Poster	Dariusz Fey, G. Bath Martin, J. Hare, J. Morris: Effect of otolith type and preparation technique on age estimation of larval and juvenile spot (Leiostomus xanthurus)
K:48 Poster	S. Pianova: Characteristics of reproductive system of haarder Liza haematocheila (Temminck et Schlegel, 1845), naturalized into the Black Sea and the Sea of Azov basin.

K:49	Withdrawn
K:50 Poster	Lisa Borges, Emer Rogan, and Rick Officer: Factors influencing discards: modelling discarding ogives
K:51 Poster	Michel Bertignac: A preliminary simulation study of the implications of changes in growth on the assessment of Northern stock of Hake and management advice
K:52 Poster	H. Murua, P. Lucio, M. Santurtun and L. Motos: Temporal and spatial variation in the Batch Fecundity of the European hake, Merluccius merluccius, of the Bay of Biscay
K:53 Poster	P. Lucio, M. Korta, I. Quincoces, H. Murua, and M. Santurtún: Northern Hake Maturity Ogive based on histological analysis for the period 1996-2001
K:54 Poster	M. Korta, I. Quincoces, H. Murua, and P. Lucio: 3-D reconstruction of the postovulatory follicles of European hake, Merluccius merluccius, as a tool to validate the ageing criteria of POFs
K:55 Poster	Joana F. Cardoso, Johannes IJ. Witte, and Henk W. van der Veer: Spatial and temporal variability in growth and reproduction in bivalves: the Baltic clam Macoma balthica (L.) as an example species
K:56 Poster	Jan Schroeder, Karsten Zumholz, Thor H. Hansteen, and Dietrich Schnack: Influence of temperature and salinity on the microchemical pattern of fish-otoliths
K:57 Poster	F. Vitale, H. Svedäng, and M. Cardinale: Ovarian development in cod (Gadus morhua) from the Kattegat and Sound: discordance between histology and visual inspection and evaluation of alternative criteria in maturity judgment.
K:58 Poster	J. Portela, J. Wang, P. Brickle, M. Sacau, G. Pierce, X. Cardoso, E. Ulloa, M. Otero, and V. Tato: Study of the variations of a potentially exploitable species (<i>Patagonotothen</i> spp.) in the southwest Atlantic, using GIS techniques
K:59 Poster	J. Portela, P. Brickle, G. J. Pierce, J. Wang, M. Sacau, and X. Cardoso: Analysis of the spatio-temporal pattern of Southern blue whiting <i>Micromesistius australis</i> abundance in the bottom-trawl fisheries in the southwest Atlantic using GIS techniques
K:60 Poster	R. Prellezo, Itziar Lazkano, M. Santurtún, P. Lucio, A. Iriondo, and I. Quincoces: The use of catch profiles for defining the Basque trawl fisheries from 1996 onwards
K:61 Poster	Carlos González-Salas, P. Lenfant, and P. Grellier: Relationship between demographic and genetic structure of European anchovy populations (<i>Engraulis encrasicolus</i> , Linnaeus, 1758) in the Bay of Biscay
K:62	Withdrawn
K:63 Poster	Isabel González Herraiz, A.C. Fariña, and F. Velasco: Spatial distribution patterns of Nephrops norvegicus on the Porcupine Bank (W Ireland)
K:64 Poster	Øystein Varpe, Øyvind Fiksen, and Aril Slotte: Building capital in a seasonal oceanic environment
K:65 Poster	Domingas Cardoso, Maria Lourdes Godinho, and Cristina Morgado: Growth Study of Pouting (Trisopterus luscus Linnaeus, 1758) in the Portuguese Continental Waters (ICES Div. IXa)
K:66 Poster	H. de Pontual, A. L. Groison, and C. Piñeiro: Do we need to revise growth estimation of European hake (Merluccius merluccius)?
K:67 Poster	Teresa Moura, Leonel Serrano Gordo, Pedro Bordalo-Machado, Ivone Figueiredo and Maria de Fátima Borges: Are caudal thorns adequate structures for ageing Raja undulata?
K:68 Poster	Withdrawn
K:69 Poster	T. Vollen and O. T. Albert: The third dimension of Greenland halibut distribution: Pelagic occurrence of this deep-water flatfish in relation to availability of pelagic prey
K:70	Withdrawn
K:71 Poster	Kumbi Kilongo Kilongo, P. Barros, and M. Diedhou: Diet of large-eye dentex, Dentex Macrophthalmus, off Angola and Namibia
K:72 Poster	Agnes C. Gundersen, Claus S. Simonsen, Ole Jørgensen, Bjarne Lyberth, and Jesper Boje: Sexual maturation and spawning season of Greenland halibut, R. hippoglossoides, in West Greenland waters

K:73 Poster	Jorge M.S. Goncalves, L. Bentes, P. Monteiro, R. Coelho, M. Corado, and K. Erzini: Reducing discards in a demersal purse-seine fishery
K:74 Poster	Mårten Åström, Håkan Wickström, and Jan Andersson: Spawner escapement of the European eel (Anguilla anguilla (L.)) from the yellow eel fishery in Swedish coastal waters
K:75 Poster	Patrícia Gonçalves, Narcisa Bandarra, Ana Costa, and Emília Cunha: Evolution of the total lipids in muscle and gonads of hake (Merluccius merluccius, L. 1758) during gonadal development
K:76 Poster	Silvana Acevedo, Julie M. Fives, and Christian Mohn: Abundance and distribution of the larval stages of the mesopelagic fish Maurolicus muelleri (Gmelin, 1788) in relation to hydrography and currents off the west coast of Ireland
K:77 Poster	Corina Chaves and Fátima Cardador: Distribution and abundance patterns of Pouting (Trisopterus luscus) in Portuguese continental waters
K:78 Poster	Feodor Litvinov and Sergey Kudersky: Intra-range boundaries in western African elasmobranch species as a reason for stock unit delimitation
K:79 Poster	Gavin Power: Precision in age determination of blue whiting, (Micromesistius poutassou), within and between "readers", using stereo-microscopy of sagittal otoliths under reflected light
K:80 Poster	Porsteinn Sigurðsson and Vilhjálmur Þorsteinsson: Underwater tagging of deep sea redfish. New technique for tagging fish at great depths
K:81 Poster	Steve Cadrin and Azure D. Westwood: The use of electronic tags to study fish movement: a case study with yellowtail flounder off New England
K:82 Poster	S. Rodriguez, E. Navarro, and I. Ibarrola: Interindividual variability of physiological components of growth in mussels Mytilus edulis

$\begin{tabular}{ll} \textbf{Baltic Sea Ecosystem Structure and Dynamics-Consequences of Physical and Anthropogenic Forcing} \\ \textbf{(L)} \end{tabular}$

L:01	Eero Aro and Maris Plikshs: The ecosystem effects of Baltic cod (Gadus morhua callarias L.) abundance and distribution changes in 1977–2004: From top-down to bottom-up control
L:02	Hannes Baumann, Hans-Harald Hinrichsen, Fritz Köster, and Axel Temming: A new retention index for the Central Baltic Sea: long-term hydrodynamic modelling used to improve Baltic sprat, Sprattus sprattus, recruitment models
L:03	Günther Nausch and Rainer Feistel: Hydrographic and hydrochemical implications of stagnation and water renewing in the central Baltic Sea - the period 1992–2004
L:04	Sanna Rönkkönen, Sigrún Huld Jónasdóttir, Eveliina Lindén, Miina Karjalainen, and Markku Viitasalo: Variations in the C, N, P and fatty acid composition of zooplankton in the Baltic Sea: implications to herring growth
L:05	E. Karasiova and V. Ivanovich: Invasion and distribution of Cercopages pengoi in the Baltic Sea as an indicator of climatic changes
L:06	Stefan Neuenfeldt, Hans-Harald Hinrichsen, and Anders Nielsen: A method to geolocate eastern Baltic cod by using Data Storage Tags (DSTs)
L:07	E. Karasiova and R. Voss: Long-term variability of cod and sprat eggs abundance in ichthyoplankton of the Baltic Sea
L:08	M. Bleil and R. Oeberst: Comparison of spawning activities in the mixing area of both the Baltic cod stocks, Arkona Sea (ICES sub-divisions 24), and the adjacent areas in the recent years
L:09	Linda Fielder, Myron A. Peck, and Michael A. St. John: The influence of temperature, salinity and feeding history on population characteristics of Baltic Acartia tonsa: Egg production, hatching success and cohort development
L:10	V.N. Feldman and F.A. Patokina: Size-based interactions of the predators and the fish prey in the Eastern Baltic Sea
L:11	Withdrawn

L:12	Jörg Dutz, Mohrholz, J. Peters, J. Renz, and J. Alheit: Identification of critical stages in the population dynamics of a key copepod species in the Bornholm Basin (Baltic Sea): potential linkages to physical forcing and climate variability.
L:13	G. Kornilovs, C. Möllmann, L. Sidrevics, and V. Berzins: Fish predation modified climate-induced long-term trends of mesozooplankton in a semi-enclosed coastal gulf
L:14	Withdrawn
L:15	Withdrawn
L:16	J. Hjelm, J. Simonsson, and M. Cardinale: Spatial distribution of cod in the Baltic Sea in relation to abiotic factors
L:17	Maiju Lehtiniemi and Eveliina Lindén: Intra-guild predation and competition of larval Baltic herring and littoral mysid shrimps
L:18	M. Bernreuther and D. Stepputtis: Vertically resolved prey-selectivity of Baltic herring (Clupea harengus L.) and sprat (Sprattus sprattus L.)
L:19	Gerd Kraus, Volker Mohrholz, Rüdiger Voss, Miriam Dickmann, Hans-Harald Hinrichsen, and Jens- Peter Herrmann: Consequences of summer inflow events on the reproduction cycle of Baltic sprat
L:20	Jasmin Renz and Hans-Jürgen Hirche: Life of Pseudocalanus acuspes in the Baltic Sea
L:21	Dirk M. Mengedoht, J. van Beusekom, M. Boersma, H.J. Hirche, J. Schulz, and J.N. Schwarz: Seasonal and spatial patterns of dominant phytoplankton groups in the Bornholm Basin (Baltic Sea): A comparison of in situ fluorescence profiles with a multispectrofluorometer and satellite data
L:22	Janna Peters, Jörg Dutz, Jasmin Renz, and Wilhelm Hagen: On the nutritional condition and lipid composition of three different trophic level components (seston, copepods, sprat larvae) in the Bornholm Basin, Baltic Sea
L:23	D. Stepputtis: Distribution of herring and sprat in the Baltic Sea in relation to physical features
L:24	Jens-Peter Herrmann, Myron A. Peck, Sven Stäcker, and Axel Temming: Bioenergetics of post-larval Baltic sprat (Sprattus sprattus L.): Evidence for growth limitation at cold temperatures
L:25	Myron A. Peck, Catriona Clemmesen, Hannes Baumann, Jens-Peter Herrmann, Sven Stäcker, and Axel Temming: The growth-feeding relationship in post-larval Baltic sprat (Sprattus sprattus L.): Comparison of somatic, nucleic acid- and otolith-based growth rates
L:26	J. van Beusekom, M. Boersma, M. Dibbern, D. Mengedoht, and M. Schilling: Phytoplankton and nutrient dynamics in the Bornholm Basin 2002–2003 during the German GLOBEC Project
L:27	Christian Möllmann, Georgs Kornilovs, Marina Fetter, and Friedrich W. Köster: Herring and sprat growth changes in the Central Baltic Sea
L:28	Christian Möllmann, Axel Temming, Hans-Jürgen Hirche, Daniel Stepputtis, Matthias Bernreuther, and Friedrich W. Köster: Fish predation control of key copepod species in the Bornholm Basin
L:29	Friedrich W. Köster, Christian Möllmann, Hans-Harald Hinrichsen, Jonna Tomkiewicz, Kai Wieland, Gerd Kraus, Rüdiger Voss, Brian R. MacKenzie, Dietrich Schnack, Andrei Makarchouk, Maris Plikshs, and Jan E. Beyer: Baltic cod recruitment – the role of physical forcing and species interaction
L:30 Poster	E. Karasiova: Long-term variability of peak egg abundance timing of Baltic cod in ichthyoplankton of the southeastern Baltic Sea
L:31 Poster	Jan Schulz, Dirk Mengedoht, Miriam Dickmann, and Hans-Jürgen Hirche: Ocean Sneaker's Tool: Data Converting – Processing – Visualization
L:32 Poster	D. Stepputtis and E. Götze: Bouyancy of physostomeous fishes in a severe stratified environment and its possible effects on vertical migration
L:33 Poster	Christian Möllmann, Hans-Jürgen Hirche, Jörg Dutz, Jasmin Renz, and Jörn O. Schmidt: Mortality rates of dominating calanoid copepods in the Bornholm Basin

Regime Shifts in the North Atlantic Ocean: Coherent or Chaotic? (M)

M:01	Harald Yndestad, William R. Turrell, and Vladimir Ozhigin: Temporal linkages between the Faroe-Shetland time series and the Kola section time series
M:02	B. J. Rothschild: The anatomy of regime shifts
M:03	John H. Steele and Jeremy S. Collie: Regime shifts: some management aspects
M:04	Andrei Krovnin and G. Moury: A comparison of climatic effects on North Atlantic and North Pacific fish stocks on the decadal and interannual time scales
M:05	Kenneth Sherman, John O'Reilly, and Joseph Kane: Climate, ocean regimes and biomass yields of five North Atlantic large marine ecosystems
M:06	Jeremy S. Collie, John H. Steele, and Katherine Richardson: Physical forcing and ecological feedbacks in marine regime shifts
M:07	Thomas Brunel and Jean Boucher: Long term synchrony in variations of recruits production of the North Eastern Atlantic marine fish populations
M:08	L. Ciannelli, K. Bailey, K. Frank, D. Hjermann, G. Ottersen, and N. C. Stenseth: Landscape ecology, spatial overlap, climate forcing and cod-capelin trophic interactions
M:09	J. Alheit, J. Dutz, R. Feistel, G. Kornilovs, C. Möllmann, V. Mohrholz, and N. Wasmund: Parallel Regime shifts in Central Baltic and North Sea in 1988/89
M:10	Martin Dorn, Jennifer Boldt, Anne Hollowed, Jim Ianelli, and Tom Wilderbuer: Management implications of low-frequency variability in marine fish survival patterns in the North Pacific
M:11	Maria de Fatima Borges and Louize Hill: Regime shift effects on fish community metrics measured in the West Portugal Upwelling area
M:12	Webjørn Melle, Francisco Rey, Bjørnar Ellertsen, and Hein Rune Skjoldal: Plankton biomass, production and variability in the Norwegian Sea ecosystem
M:13	Withdrawn
M:14	Francisco P. Chavez: Evidence for regime shifts in the Pacific Ocean
M:15	Withdrawn
M:16 Poster	G. M. Daskalov, L. Kell, and C. Fox: Large-scale environmental effects on recruitment of commercially exploited fish stocks in the North Atlantic
M:17 Poster	Marianne Holm: Salmon in the Norwegian Sea

Oceanographic Processes Related to the Continental Slopes of the North Atlantic (N)

N:01	Antonina dos Santos and A. Peliz: On the occurrence of Nephrops norvegicus larvae off south European Atlantic waters
N:02	Alexander Sirota, Pavel Chernyshkov, and Natalia Zhigalova: Water masses distribution, currents intensity and zooplankton assemblage off Northwest African coast
N:03	Changsheng Chen and Geoffrey Cowles: Interannual variability of water stratification and circulation in the Gulf of Maine/Georges Bank region
N:04	Steingrimur Jonsson and Hedinn Valdimarsson: An ocean current over the continental slope northwest of Iceland carrying Denmark Strait overflow water from the Iceland Sea to Denmark Strait
N:05	V. Valencia, J. Franco, A. Borja, and A. Fontán: Winter mixed layer in the continental slope of the South-eastern Bay of Biscay. Factors affecting the water mixed depth and resulting properties of the mixed waters
N:06	M. Ruiz Villarreal, G. Díaz del Río, A. Lavin, C. González-Pola, N. González, J. Alonso, M. Rodriguez, and J.M. Cabanas: The impact of the Galician Bank in the Mediterranean Outflow

N:07	Denis Gilbert: Propagation of temperature signals along the northwest Atlantic continental shelf edge and into the Laurentian Channel
N:08	Sarah L. Hughes and W.R. Turrell: The slope current on the Shetland shelf of the Faroe-Shetland channel - statistics and trends
N:09	M. A. Qurban, D.J. Hydes, A. M. Lavin, C. M. González-Pola, B. A. Kelly-Gerreyn, and P. Miller: Sustained "Ferry-Box" Ship of Opportunity observations of physical and biogeochemical conditions across the Bay of Biscay
N:10	Xavier Carton, Laurent Cherubin, and Jerome Paillet: Interaction of two meddies with a cyclone in the Gulf of Cadiz
N:11	Xavier Carton, Marc Pavec, and Gordon Swaters: Influence of time variability on the stability of a frontal slope current
N:12	Manuel Ruiz, Villarreal Guillermo Díaz del Río, Henrique Coelho, and Paulo Chambel: Slope current in the Cantabrian: Seasonal variability and interaction with Aviles Canyon
N:13 Poster	Carmen Rodríguez, Nicolás González, Alicia Lavín, Rosario Carballo, and Ana Abascal: The seasonal cycles of temperature, salinity and nutrients in the Cantabrian Sea in 2001–2003

Larval Fish Growth, Feeding and Recruitment in Relation to Patterns and Activity in Plankton Communities (O)

O:01	HH. Hinrichsen, V. Buehler, and C. Clemmesen: Larval growth characteristics of North Sea herring obtained from otolith analysis: an Individual Based Model (IBM) approach
O:02	Rüdiger Voss, Catriona Clemmesen, Hannes Baumann, and Miriam Dickmann: Recruitment success in Baltic sprat: Coupling of food availability, larval condition and survival
O:03	Catriona Clemmesen, Hans-Harald Hinrichsen, Muklis Kamal, and Vivian Bühler: Variability in growth and nutritional condition of sprat larvae in the Baltic - a combined field and biophysical modelling study
O:04	R. G. Lough and E. R. Broughton: Fine- to micro-scale distribution of plankton based on Video Plankton Recorder profiles from Georges Bank with implications for larval fish feeding
O:05	Mari T. Breien and Howard I. Browman: The three-dimensional prey field of Meganyctiphanes norvegica and the escape responses of their copepod prey
O:06	Hans-Jürgen Hirche: Annual and interannual variability of body size and population development of 4 dominant copepod species at Helgoland Roads, southern North Sea
O:07	J. Alheit, C. Clemmesen, M. Dickmann, A. Drossou, R. Hinrichs, M. Holtappels, B. Huwer, V. Mohrholz, M. Schilling: Storm impact on clupeid larvae, their condition and their planktonic prey
O:08	Larry Buckley, E.G. Durbin et al.: Annual and inter-annual trends in the zooplankton prey and growth of Atlantic cod (Gadus morhua) and haddock (Melanogrammus aeglefinus) larvae on Georges Bank
O:09	Bernard A. Megrey, Shin-ichi Ito, Douglas E. Hay, Robert Klumb, Kenneth A. Rose, and Francisco E. Werner: Regional differences in lower and higher trophic level marine ecosystem response to climate impacts using a coupled biogeochemical-fisheries bioenergetics/population dynamics model
O:10	Gwang-Cheon Kim, John F. Dower, and Pierre Pepin: Comparing the relative importance of early larval growth and length-at-age to measures of feeding success: Bigger is not necessarily better
O:11	Carolina Parada and S. Hinckley: Ecosystem model of Shelikof Strait in the Gulf of Alaska: Sensitivity analysis of predation and grazing model parameters, and parameter estimation using data on Neocalanus spp. and Pseudocalanus spp
O:12	Withdrawn
O:13 Poster	Jens Rasmussen, Alejandro Gallego, Mike Heath, and Peter Boyle: Multispecies diet composition and selectivity in a larval fish assemblage east of Shetland, May 1996.

O:14 Poster

Peter S. Galbraith, Howard I. Browman, Roberto G. Racca, Anne Berit Skiftesvik, and Jean-François Saint-Pierre: Energetics of foraging in Atlantic cod (Gadus morhua) larvae: effects of micro-scale turbulence

O:15 Poster

Miriam Dickmann and J. Alheit: Food and feeding of sprat larvae in the Baltic Sea

M. Holtappels, J. Alheit, M. Bernreuther, C. Clemmesen, and R. Hinrichs: Do sardine and sprat larvae in frontal systems of the North Sea suffer from starvation?

O:17 Poster

Bastian Huwer, Moritz Holtappels, Catriona Clemmesen, and Volker Mohrholz: Distribution and growth of sprat (Sprattus sprattus) and sardine (Sardina pilchardus) larvae co-occurring at frontal systems in the German Bight

O:18 Poster

Trond Kristiansen and Øyvind Fiksen: Temperature- and food-dependent growth of larval Atlantic cod

Physical-biological Interactions: Experiments, Models and Observation (P)

(Gadus morhua L.): Simulation of a macrocosm experiment

P:01	A. Trofimov, V. Ivshin, and N. Mukhina: Modelling of dynamic processes influencing the Barents Sea cod (Gadus morhua morhua L.) survival in early life history
P:02	Volker Mohrholz, Jörg Dutz, and Gerd Kraus: The impact of exceptional warm summer inflow events on the environmental conditions in the Bornholm Basin
P:03	Jim Ellis, Simon Greenstreet, Mike Robertson, and Stuart Rogers: Distribution and structure of faunal assemblages and their associated physical conditions on the Atlantic continental shelf of the British Isles
P:04	Enrique Nogueira, Antonio Bode, Manuel Varela, and Xosé Anxelu G. Morán: Pentadal variability (2000–2004) of thermohaline properties and chlorophyll a distribution in the NW and N Iberian shelf during the winter-spring transition
P:05	A. Bucklin, C. A. Manning, K. M. Bonner, and J. M. Pringle: Seasonal patterns of abundance and vertical distribution of copepod species in coastal waters of the western Gulf of Maine (Northwest Atlantic)
P:06	M. Sourisseau, Y. Simard, and F. J. Saucier: Aggregation and advection of macro-zooplancton in the Estuary and Gulf of St-Lawrence
P:07	Luis Ferrer, M. González, U. Cotano, A. Uriarte, Y. Sagarminaga, Ad. Uriarte and M. Collins: Physical controls on the evolution of the anchovy in the Bay of Biscay: a numerical approximation
P:08	G. Lacroix, C. Lancelot, K. Ruddick, Y. Spitz, and N. Gypens: Modelling the relative impact of Rivers (Scheldt/Rhine/Seine) on the availability of nutrients in Belgian waters (Southern North Sea) using the 3D Coupled Physical-Biological Model MIRO&CO-3D
P:09	Alejandro Gallego, Mike Heath, and Belinda Cook: The origin and destination of sandeel larvae sampled in the northern North Sea: bio-physical modelling simulation results
P:10	Withdrawn
P:11	Lars Asplin, Karin Boxaspen, and Anne D. Sandvik: Modelled distribution of sea lice in a Norwegian fjord
P:12	Thomas Torgersen and Øyvind Fiksen: Vertical distribution of feeding- and mortality rates in oceanic systems
P:13	T. Bekkby, E. Rinde, R. Rosenberg, V. Bakkestuen, and L. Erikstad: The effect of terrain structures and environmental factors on the distribution marine habitats
P:14	Christian Mohn, Martin White, Aike Beckmann, and Gareth Mottram: The role of physical processes for biomass dispersion over submarine banks: a study at two locations in the Northeast Atlantic Ocean
P:15	B. J. Rothschild, C. Chen, G. Lough, and K. D. E. Stokesbury: The influence of the Georges Bank wind index on the Scotian Shelf Gulf of Maine stocks of cod, haddock, and scallops
P:16	Beatriz Mouriño, E. Fernández, R. Pingree, B. Sinha, J. Escánez, and D. de Armas: Are mesoscale

features important for the carbon budget of the photic layer in the NE subtropical Atlantic?

P:17	Withdrawn
P:18	Withdrawn
P:19	Jan Schulz and Hans-Jürgen Hirche: Vertical distribution of zooplankton in relation to clines in the central Baltic Sea – Possible impacts
P:20	Tetjana Ross, Isabelle Gaboury, and Rolf Lueck: Acoustic observations of plankton and turbulence in a tidally mixed fjord
P:21	Withdrawn
P:22	Withdrawn
P:23	W. J. Saumweber and E. G. Durbin: Energetic constraints on the population dynamics of Calanus finmarchicus during diapause in the Gulf of Maine
P:24	E. W. North, M. Li, T. Gross, L. Zhong, and R. R. Hood: The influence of mixing processes on larval transport in a stratified wind- and tidally-forced system
P:25 Poster	Ken H. Andersen and Christian Möllmann: Process oriented model of egg mortality due to the physical environment and predation
P:26	S. Vaz, A. Carpentier, C. Loots, and P. Koubb: Modelling Fish Habitat Suitability in the Eastern English Channel; Application to community habitat level
P:27	Alain F. Vézina, B. Casault, and B. Greenan: Physical-biological simulations of short-term variability in vertical mixing and phytoplankton on the Scotian shelf
P:28	B. A. Kelly-Gerreyn, M. A. Qurban, D.J. Hydes, P. Miller, and L. Fernand: Coupled "Ferry-Box" Ship of Opportunity and satellite data observations of plankton succession across the European Shelf Sea and Atlantic Ocean
P:29	Withdrawn
P:30	C. L. Johnson, J. M. Pringle, and C. S. Chen: Transport and retention of the copepod Calanus finmarchicus during diapause in the deep Gulf of Maine
P:31	F. Peters, O. Guadayol, C. Marrasé, M. Bayer, A. Sabata, J. Felipe, and J. Egge: An assessment of the annual variability in a coastal plankton community in relation to turbulence forcing and nutrient load
P:32 Poster	Jesus M. Torres Palenzuela, Gemma Martinez Iglesias, and Luis Gonzalez Vilas: Prestige effects on the catches of the pelagic fisheries in the Galician coast
P:33	Laure Pecquerie, Martin Huret, Pierre Petitgas, and Alain Ménesguen: Use of coupled circulation and ecosystem NPZ models to characterise food conditions of anchovy in Biscay
P:34	Stéphanie Magri-Hoeltzener, Pierre Petitgas, and Pascal Lazure: A 1-D model for the vertical distribution of fish eggs: sensitivity analysis and validation
P:35 Poster	Andreas Moll, Johannes Pätsch, and Wilfried Kühn: Zooplankton dynamics within the North Sea ecosystem: annual cycles and regional differences simulated with ECOHAM2
P:36 Poster	A. Bucklin, E. Ünal, P. H. Wiebe, and N. J. Copley: Interannual variation of population genetic diversity of Calanus finmarchicus (Copepoda, Calanoida) in the Gulf of Maine, Northwest Atlantic
P:37 Poster	Wilfried Kühn, Myron A. Peck, Thomas Pohlmann, and Catriona Clemmesen: A coupled transport/growth individual-based model for larval sprat (Sprattus sprattus) in the southern North Sea/German Bight
P:38 Poster	S. de Juan, H. Hinz, M. Kaiser, A.Palanques, J. Guillén, A. de Biasi, P.Sartor, and M. Demestre: Preliminary results of the effects of different levels of trawl fishing activity on benthos and sediment from fishing grounds in European waters (Irish Sea, Adriatic Sea and Mediterranean Catalan Sea)
P:39 Poster	Cecilie Broms T. Årnes, Webjørn Melle, and Anders Thorsen: Gastric evacuation rates of Norwegian spring spawning herring

- P:40 *Ken H. Andersen*: Modelling retention or dispersion of buoyant and active particles around a tidal front
- P:41 Poster

 A. Carpentier, C. S. Martin, S. Vaz, F. Coppin, P. Koubbi, G. J. Meaden, M. Walkey, S. Harrop, Z. Kemp, N. Desroy, J. C. Dauvin, and A. Lefebvre: Eastern Channel Habitat Atlas for Marine Resource Management (CHARM)
- P:42 Poster C. S. Martin, A. Carpentier, F. Coppin, P. E. Eastwood, G. J. Meaden, M. Walkey, S. Harrop, Z. Kemp, and S. Vaz: A Digital Atlas for the Physical Environment of Eastern English Channel (CHARM Project)
- P:43 Poster

 P. H. Wiebe, R. P. Harris, O. S. Astthorsson, C. S. Werner, M.A. St. John, D. B. Haidvogel, F. Carlotti, and B. deYoung: Basin-scale Analysis, Synthesis and INtegration (BASIN) of oceanographic and climate-related processes and the dynamics of plankton and fish populations in the North Atlantic Ocean (a Workshop)
- P:44 *Jesus M. Torres Palenzuela, Gemma Martinez Iglesias, and Louis Gonzalez Vilas*: Pelagic fisheries study using GIS and remote sensing imagery in Galicia (Spain)

Recent Advances in the Oceanography and Biology of the Iberian Waters and Adjacent Shelf Seas: Results from Integrated Multidisciplinary Projects (Q)

Q:01	Benjamin Planque, Edwige Bellier, and Pierre Petitgas: Historical fluctuation of spawning area of anchovy (Engraulis encrasicolus) and sardine (Sardina pilchardus) in the bay of Biscay from 1967 to 2004
Q:02	Benjamin Planque, Edwige Bellier, and Pascal Lazure: Effects of environmental factors on potential spawning habitat of small pelagic fish in the bay of Biscay
Q:03	Patricia Estévez-Blanco, Emilio Fernández, Antonio Bode, Francisco Castiñeira, Jorge Lorenzo, and Manuel Varela: Primary production rates along the northwest Iberian coastal transition zone derived from fast repetition rate fluorometry (FRRF)
Q:04	Pedro Cermeño, E. Marañón, J. Rodríguez, E. Fernández, F. Jiménez, and L. Zabala: Allometric deviation of phytoplankton metabolism and the energy flow through a coastal ecosystem
Q:05	Marta M. Varela and Antonio Bode: Release of dissolved organic nitrogen (DON) by microbial populations in the NW Iberian Peninsula shelf and adjacent open-ocean Atlantic waters
Q:06	Y. Sagarminaga, X Irigoien, A. Uriarte, M. Santos, L. Ibaibarriaga, P.Alvarez, and V. Valencia: Characterization of the anchovy (Engraulis encrasicholus) and sardine (Sardinia pilchardus) spawning habitats in the Bay of Biscay from the routine application of the annual DEPM surveys in the Southeast Bay of Biscay
Q:07	Antonio Bode, Pablo Carrera, Jorge Lorenzo, Carmela Porteiro, and M. Begoña Santos: Natural abundance of stable nitrogen isotopes reflect changes in pelagic food webs and mobility of size classes of the north Iberian sardine (Sardina pilchardus)
Q:08	Antonio Bode, Jorge Lorenzo, Marco Amez, Luis Valdés, and Manuel Varela: Low enrichment in stable isotopes of mesozooplankton suggest predominance of microbial food webs in the Mar Cantábrico (S Bay of Biscay)
Q:09	M.B. Santos, G.J. Pierce, A. López, J.A. Martínez, M.T. Fernández, E. Ieno, C. Porteiro, P. Carrera, and M. Meixide: Variability in the diet of common dolphins (<i>Delphinus delphis</i>) in Galician waters 1991-2003 and relationship with prey abundance
Q:10	L. Ibaibarriaga, M. Santos, A. Uriarte, D. Borchers, C. Dixon, and S. Wood: Application of Generalised Additive Models to the Daily Egg Production Method for the Bay of Biscay anchovy (Engraulis Encrasicolous L.)
Q:11	Andrés Uriarte, Pablo Carrera, Guillermo Boyra, Jim Churnside, Carla Scalabrin, and Vitor Marques: Comparison between the performance in detecting fish from airborne Lidar) and ship

(Echosounder) devices. a study case in SW Europe (the Bay of Biscay and Atlantic waters of the

Iberian Peninsula)

Q:12	Pablo Carrera, Manica, Dankert Skagen, José M. Bellido, Victor Marques, Alexandre Morais, Carmela Porteiro, and Yorgos Stratoudakis: Analysis of the dynamics of the atlanto-Iberian sardine using combined catch at age data and acoustic estimates by area: the effect of the recruitment strength on the distribution area of sardine
Q:13	Withdrawn
Q:14	Joachim Bartsch: The influence of spatio-temporal egg production variability on the modelled survival of the early life history stages of mackerel (Scomber scombrus) in the eastern North Atlantic
Q:15	Alexandra Silva, M. Begoña Santos, Alexandre Morais, Pablo Carrera, Afonso Jorge, Eugenia Peleteiro, Bruno Caneco, and Carmela Porteiro: Geographic variability in sardine maturity and growth within the Atlanto-Iberian stock area.
Q:16	Withdrawn
Q:17	Luis Valdés and A. López-Urrutia: Critical review of the Spanish capability in marine research and its representation in research projects, scientific journals and marine councils
Q:18	Victor Marques, Pablo Carrera, Alexandre Morais, Carmela Porteiro, Juan Miquel and Yorgos Stratoudakis: Consistency of the Spanish and Portuguese spring acoustic surveys off the Iberian Peninsula
Q:19	Yorgos Stratoudakis, Steve Coombs, Tim Smyth, Jerom Costas, Concha Franco, Ana Lago de Lanzós, Alexandra Silva, Maria Begoña Santos, Paula Alvarez, and Maria Santos: Sardine (Sardina pilchardus) spawning season in the North East Atlantic and relationships with sea surface temperature
Q:20	Benito Peleteiro, Ana Marçalo, Mercedes Olmedo, Pedro Pousão-Ferreira, Javier Sanchez, Susana Garrido, Carmela Porteiro, and Yorgos Stratoudakis: Sardine tagging off the Iberian peninsula: laboratory experiments and operations at sea
Q:21	Panagiotis Kasapidis, Serge Planes, Veronique Laurent, Ricardo Quinta, Ana Teia, Philippe Lenfant, Stelios Darivianakis, Vasso Terzoglou, Giorgos Kotoulas, and Antonios Magoulas: Stock discrimination and temporal and spatial genetic variation of sardine (Sardina pilchardus) in north eastern Atlantic, with a combined analysis of nuclear (microsatellites and allozymes) and mitochondrial DNA markers
Q:22 Poster	Ana Miranda, G. Fernández, C. Eirín, and S. Lens: Zooplankton composition, distribution and abundance in the Bay of Biscay and adjacent Atlantic waters from a cetacean sighting survey
Q:23 Poster	J. P. Rubín and P. Mafalda Jr.: Abnormal domination of Sardinella aurita in the ichthyoplankton community of the Gulf of Cádiz: related changes in the hydrologic and mezozooplanktonic structures
Q:24 Poster	Paulino Lucio, Marina Santurtún, Iñaki Quincoces, and Ane Iriondo: Spatial-temporal characterization of the Northern Hake landings and landings per unit effort of the Basque (Spanish) fleets, in the period 1992–2003
Q:25 Poster	Valesca Pérez, Emilio Fernández, Antonio Bode, Pablo Carrera, Begoña Castro, Elvira Ceballos, Jorge Lorenzo, Marian Peña, Manuel Varela, and Marta María Varela: Close coupling between phytoplankton size structure and sardine (Sardina pilchardus) biomass in frontal systems of the west coast of the Iberian Peninsula

New Developments in Fisheries Acoustics: Applications in Bottom Trawl Surveys and Multi-frequency Species Identification (R)

R:01	M. L. Zaferman and G. P. Tarasova: Experiments on development of a method of Greenland halibut assessment with the use of underwater video
R:02	Withdrawn
R:03	S. M. Kasatkina, P. S. Gasyukov, and V. F. Inanova: Joint application of trawl and acoustic samples in demersal fishes assessment improvement
R:04	Steven Mackinson, Jeroen van der Kooij, and Suzanna Neville: The fuzzy relationship between acoustic and trawl surveys

R:05	Suzanna Neville, Vidar Hjellvik, Steven Mackinson, and Jeroen van der Kooij: Using artificial neural networks to combine acoustic and trawl data in the Barents and North Seas	
R:06	Andrew S. Brierley, Bjørn E. Axelsen, and Christopher P. Lynam: Pinging down the food web: multi-frequency acoustic discrimination of jellyfish and fish	
R:07	Nils Olav Handegard and Dag Tjøstheim: The effective swept volume of a bottom trawl	
R:08	Rebecca Thomas, Tim Mulligan, Don Degan, Robert Kieser, Debby L. Burwen, and Guy Fleischer: Discrimination of Single Fish by species based on Multi-frequency Split-beam Measurements	
R:09	Withdrawn	
R:10	David Somerton and Paul vonSzalay: Reducing the variance of trawl indices of abundance by incorporating between station measurements of near bottom acoustic backscatter	
R:11	Paul G. Fernandes and M. Stewart: Determining the quality of a multifrequency identification algorithm	
R:12	Alicia Mosteiro, P.G. Fernandes, F. Armstrong, and S. Greenstreet: A dual frequency algorithm for the identification of sandeel school echotraces	
R:13	Angus M. Mair, Paul G. Fernandes, and Andrew S. Brierley: Examination of North Sea plankton samples in relation to multifrequency echograms	
R:14	Nicolas Bez M. Bouleau, V. Hjellvik, O.R. Godø, D. Reid, D. Beare, T. Greig, S. Mackinson, S.Neville, J. van der Kooij, Y. Vérin, J. Massé and M. Armstrong: Insight on fish reaction to the presence of trawl from the comparison of acoustic data recorded during and between trawl stations	
R:15	Rita Santos N. García-Núñez, and P.G. Fernandes: An algorithm to distinguish echotraces of herring (Clupea harengus) from those of Norway pout (<i>Trisopterus esmarkii</i>)	
R:16	Geir Pedersen, Rolf J. Korneliussen, and Egil Ona: The relative frequency response, as derived from individually separated targets on cod, saithe and Norway pout	
R:17	Tony Greig: Fish in the dead zone: are there any whispers from the bottom?	
R:18	Natalia Gorska, Egil Ona, and Rolf Korneliussen: On acoustic multi-frequency species identification and separation of Atlantic mackerel, Norwegian spring spawn herring and Norway pout	
R:19	W. Tesler, R. Kieser, and J. Preston: Use of seabed classification methodology to obtain species information from fisheries acoustic data	
R:20	R. J. Korneliussen, P. Fernandes, and E. Ona: Acoustic identification of Atlantic mackerel	
R:21	Withdrawn	
R:22	Anne Lebourges-Dhaussy and Johanna Ballé-Béganton: Multifrequency multimodel zooplankton classification	
R:23	O. R. Godø, V. Hjellvik, T. Greig, D. Beare, and J. V. D. Kooij: Can subjective evaluation of echograms improve correlation between bottom trawl and acoustic densities?	
R:24	Doug Beare, D. Reid, T. Greig, N. Bez, V. Hjellvik, O.R. Godo, M. Bouleau, J. van der Kooij, S. Neville, and S. Mackinson: Positive relationships between bottom trawl and acoustic data	
R:25	Bo Lundgren and J. Rasmus Nielsen: Experiments for possible hydroacoustic discrimination of free-swimming juvenile gadoid fish by analysis of broadband pulse spectra as well as 3D fish position from video images and split beam acoustics	
R:26	Verena M. Trenkel, Olav Rune Godø, Nils Olav Handegard, and Ruben Patel: Studying the relationship between spatial fish distributions and trawl catches	
R:27	Joaquin Gajate, R. Ponce, M. A. Peña, M. Iglesias, and P. G. Fernandes: SIMFAMI database: an application of the Spanish software SIRENO	
R:28	Mireille Bouleau and Nicolas Bez: Testing various geostatistical models to combine bottom trawl catches and acoustic data	
R:29	Withdrawn	

R:30	Jacques Massé, Pierre Petitgas, Claire Macher, and Pierre Beillois: Use of a two-frequency school descriptor to characterise trawl efficiency
R:31	Kjell Kr. Olsen and Geir Antonsen: Broad band echo signals used for species identification
R:32 Poster	E. J. Simmonds, C. Zimmermann, E. Götze, S. Jansen, E. Torstensen, Bo Lundgren, D.G. Reid, S. Ybema, and A.S. Couperus: ICES coordinated acoustic survey of ICES divisions IIIa, IV and Via (north). Improvements through stratified design and 2003 results
R:33 Poster	Vidar Hjellvik, Olav Rune Godø, and Dag Tjøstheim: Diurnal variation in acoustic densities: Why do we see less in the dark?
R:34 Poster	Geir Pedersen, Ruben Patel, and Egil Ona: Direct measurement of the effective acoustic deadzone volume on sloping bottom from split beam phase angles
R:35 Poster	Nils Olav Handegard and Vidar Hjellvik: A vessel specific bias in echo sounder recordings during trawling
R:36 Poster	R. J. Korneliussen, N. Diner, Egil Ona, and P. Fernandes: Recommendations for collection of acoustic multi-frequency data and consequences of school detection using different beam-widths
R:37 Poster	J. Rasmus Nielsen and Bo Lundgren: Hydroacoustic ex situ target strength measurements of free- swimming juvenile gadoids in relation to variations in 3D fish position and angular orientation obtained from synchronized video images
R:38 Poster	R. J. Korneliussen, E. Ona, H.P. Knudsen, G. Lien, K. Røang, I. K. Eliassen, Y. Heggelund, and D. Patel: Combined algorithms for detection of acoustic categories
R:39 Poster	A. Lebourges Dhaussy, T. Knutsen, and R. J. Korneliussen: Acoustic backscatter from zooplankton and fish explored through an optimised model framework
R:40 Poster	Mireille Bouleau and Nicolas Bez: Relationships between the vertical acoustic profiles and the species proportion caught in the trawl; development of a general model combining bottom trawl and acoustic data
R:41 Poster	Espen Johnsen: Integrating fishery dependent data and survey data to study temporal and spatial patterns of diurnal variation in catch rates of hake (Merluccius capensis and M. paradoxus)
R:42 Poster	Eirik Tenningen: First Test Results from the New Norwegian Lidar for Monitoring of Marine Resources
R:43 Poster	Bjørn E. Axelsen and Rune Vabø: Validation of multifrequency target strength measurements of Cape horse mackerel <i>Trachurus trachurus</i> capensis using a finite cylinder model

Use of Estuarine and Freshwaters Habitats and the way that Freshwater and Diadromous Fish use Them (S)

S:01	Tony Robinet, Andrew Moorek and Eric Feunteun: Evidence for chemical vulnerability of diadromous salmonids and eels
S:02	Pascal Laffaille, Aurore Baisez, and Emilien Lasne: Freshwater habitat of European eel
S:03	Etienne Prévost: Pollution from fish farm effluents increase in-river mortality of adult Atlantic salmon prior to spawning
S:04	Guy Verreault, Pierre Dumont, and Yves Mailhot: Habitat losses and anthropogenic barriers as a cause of population decline for American eel (Anguilla rostrata) in the St. Lawrence Watershed
S:05	Francis Juanes, Steve Gephard, and Ken Beland: Long-term changes in migration timing of adult Atlantic salmon at the southern edge of the North American species distribution: local adaptation or a coast-wide response to environmental change?
S:06	America G. Valiente, E. Garcia-Vazquez, and F. Juanes: Effects of global warming on Atlantic salmon sea-run timing at the southern edge of the European distribution
S:07	Jean-Luc Baglinière, Frédéric Marchand, and Vincent Vauclin: Changes in recruitment of Atlantic salmon (Salmo salar) population in the River Oir (Lower Normandy, France): relationships with the characteristics of spawners and with the stream modification

S:08	R. Thiel, P. Riel, R. Neumann and H. M. Winkler: Status of the anadromous twaite shad Alosa fallax (Lacépède, 1803) in German and adjacent waters of the Baltic Sea
S:09	Jeronimo de la Hoz: Environmental conditions and Atlantic salmon restoration plan in rivers of Spain.
S:10	Anthony Acou, P. Boury, G. Gabriel, T. Robinet, AJ. Crivelli, and E. Feunteun: Relation between continental hydrosystems and silver eels reproductive potential: an analysis needed for eel stock management
S:11	R. Christopher Chambers, David A. Witting, and Isaac Wirgin: Evidence of rapid local adaptation in an anadromous gadid, Atlantic tomcod (Microgadus tomcod), in response to industrial contaminants released into the Hudson River Estuary, USA
S:12	<i>Nicola Tien and Willem Dekker</i> : Trend in eel habitat abundance in the Netherlands during the 29 th century
S:13 Poster	Yuri V. Gerasimov, Oleg M. Lapshin, and Michael N. Kovalenko: The research of salmon migration intensity in estuarine part of the Bolshaya River (west part of Kamchatka peninsula) using survey setnet and hydroacoustical metho
S:14	V. M. Zelenkov, I. I. Studenov, Y. V. Gerasimov, and O. M. Lapshin: The research of salmonids migrations in the lower and estuarine parts of Onega River (White Sea basin) with the use of hydroacoustic method
S:15 Poster	Michael Ingemann Pedersen: Downstream migration of radio tagged silver eels
S:16 Poster	Withdrawn
S:17 Poster	Araitz Bilbao, Iker Azpiroz, Jaime Castellanos, Javier Franco, Félix Izco, Iñigo Mendiola, Esteban Puente, and Iñaki Urrizalki: Development of an European eel (Anguilla Anguilla) monitoring plan in the Oria River basin (Basque country)
S:18 Poster	Pauline Boury, A. Acou, T. Robinet, and E. Feunteun: European eel presapwner production by the French largest river system: Loire and fishing mortality estimation
S:19 Poster	Ahmed Yahyaoui and Naoual Chetto: Synthesis of the Ecobiological data of eel (Anguilla Anguilla L. 1758) in Marocco
S:20	M. L. Acolas, V. Véron, H. Jourdan, M.L. Bégout Anras, M.R. Sabatié, and J.L. Baglinière: Assessment of upstream migration and reproductive behaviour of Allis Shad (Alosa alosa (L.)) from a small river of the Atlantic coastal zone (L'Aulne, Brittany, France).

$A coustic \ Seabed \ Classification - Applications \ in \ Fisheries \ Science \ and \ E cosystem \ Studies \ (T)$

T:01	D.V. Holliday, Charles F. Greenlaw, Jan E.B. Rines, and David Thistle: Diel variations in acoustical scattering from a sandy seabed
T:02	Paul D. Eastwood, Sami Souissi, Stuart I. Rogers, Roger A. Coggan, and Craig. J. Brown: Mapping sediment biotopes as continuous distributions rather than discrete entities with hard boundaries
T:03	Silvana N.R. Birchenough Siân, E. Boyd, Roger A. Coggan, David S. Limpenny, William J. Meadows, and Robert Foster-Smith: Integration of ground-truthing approaches to haracterise an area licensed for dredge material disposal off the Northeast coast of the UK
T:04	Roger A. Coggan, Sally Philpott, David S. Limpenny, William J. Meadows and Siân E. Boyd: Developing a strategy for seabed mapping at different spatial scales and resolutions: case study of seabed characterisation in an area of the eastern English Channel
T:05	Patrick Schneider, J. Burczynski, and B. Sabol: Case studies for the evaluation of Submersed Aquatic Vegetation (SAV) using hydroacoustics as a dedicated assessment tool
T:06	Jeroen van der Kooij, Steven Mackinson, Adam Nicholls, and David Righton: Assessment of sandeel distribution and abundance: a seabed discrimination approach
T:07	R.C. Wakeford, M. Belchier, and P. Morris: Longline Fishing Activity and Bathymetry in the South Georgia Region

T:08	Withdrawn
T:09	Katrina Baxter, A. Bickers, and G. Kendrick: Classifying marine habitats using geophysical parameters
T:10	Withdrawn
T:11	Rudy Kloser, Alan Williams, Franzis Althaus, and Alan Butler: Seabed terrains and fauna associations based on acoustic sampling.
T:12	Withdrawn
T:13	J. M. Preston, A. C. Christney, W. T. Collins, R. A. McConnaughey, and S. Syrjala: Considerations in large-scale acoustic seabed characterization for mapping benthic habitats
T:14	Withdrawn
T:15	Alan Williams, Rudy Kloser, and Bruce Barker: Mapping, understanding and managing fishery habitat: a case study of the commercial pink ling (Genypterus blacodes: Ophidiidae) off SE Australia
T:16 Poster	R.C. Wakeford, J.M. Clark, M. Belchier, and P. Morris: Mapping deep-water benthic habitats around South Georgia
T:17 Poster	Mattias Sköld, Tomas Lundälv, and Per Nilsson: Forum Skagerrak II. Seabed mapping and biological groundtruthing of habitats on the Swedish west coast
T:18 Poster	Estelle Hutin, Y. Simard, and P. Archambault: Acoustic detection of a scallop bed from a single-beam echosounder
T:19 Poster	<i>Ibon Galparsoro, P. Gyssels, P. Liria, Z Santiago, and A. Uriarte</i> : Seabed acoustic characterisation of the bay of La Concha, San Sebastian (North-east of Spain) as a tool for coastal management

Mariculture in the Coastal Zone: Sustainability, Perspective and Limitations (V)

V:01	Withdrawn	
V:02	I. M. Davies, M Gubbins, and C. Greathead: Relative rates of discharge of nutrients by cultivated finfish species	
V:03	Jan Aure, T. Strohmeier, Ø. Strand, and L. Asplin: Enhancement of mussel culture by artificial upwelling of nutrient-rich deep water in fjords	
V:04	A. D. McIntosh, G Grewar, I. M. Davies, and C. F. Moffat: Kinetics of depuration of hydrocarbons by mussels (Mytilus edulis)	
V:05	I. M. Davies, U. Barg, and E. Black: GESAMP initiative on environmental risk analysis for coastal aquaculture	
V:06	I. M. Davies, M. J. Gubbins, and C. Greathead: Relative importance of aquaculture, land run-off and tidal exchange as sources of nutrients in Scottish sea lochs	
V:07	Per Dolmer and Kerstin Geitner: Integrated Coastal Zone Management of cultures and fishery of mussels in Limfjorden, Denmark	
V:08 Poster	Pauline Kamermans, Maarten de Kort, Renee Quist, and Ad van Gool: Production of algal feed for bivalve larvae with the use of water from a turbot farm	
V:09 Poster	I. Ibarrola and J. Guerra Rivas: Feeding, absorption and digestion of detritus derived from different vascular plants and macroalgae by cockles	
V:10 Poster	Elizabeth Smith, Jennifer Graham, Matthew Gubbins, Marie Grieve, and Lesley Stobo: Rapid monitoring of toxic phytoplankton in Scottish coastal waters	
V:11 Poster	Marina Andrea Kroeck, I. Arzul, J. Montes, R. F. Conchas, B. Chollet, E. M. Morsan, and F. Berthe: Presence of Bonamia-like microcells in flat oyster, Ostrea puelchana (d'Orbigny, 1842) from San Matías Gulf, NW Patagonia, Argentina	

V:12 Poster	Pippa J. Sammes and C. Greathead: Early warning systems to mitigate impacts of algal blooms and
	jellyfish on mariculture developments

V:13 Poster *C. Greathead, M. Gubbins, and I. M. Davies*: Locational guidelines for marine fish farms in Scottish waters (spatial and temporal planning)

Conserving Biodiversity and Sustaining Fisheries through MPAs (Y)

	Conserving blodiversity and Sustaining Fisheries through MPAs (1)
Y:01	Paul J. B. Hart, Robert E Blyth, Michel J Kaiser, and Gareth Edwards-Jones: The conservation effects of a gear restriction agreement off the south west coast of England
Y:02	Steven Murawski, Michael Fogarty, Susan Wigley, Paul Rago, and David Mountain: Adaptive responses by fishermen to marine protected areas in temperate seas
Y:03	Withdrawn
Y:04	Withdrawn
Y:05	C. Mills, S. I. Rogers, M.L. Tasker, P.D. Eastwood, and G.J. Piet: Developing the use of satellite Vessel Monitoring System data in spatial management.
Y:06	Edward D. Houde: Spatial management, protected areas, and fisheries ecosystem planning in Chesapeake Bay
Y:07	G. Stefansson and A.A. Rosenberg: Combining control measures for more effective management of fisheries under uncertainty: quotas, effort limitation and protected areas
Y:08	Raquel Goñi, A.Quetglas, and O.Reñones: Influence of a marine reserve on catches and effort in the adjacent fishery of the European spiny lobster (Palinurus elephas, Fabricius, 1787)
Y:09	Hilaire Drouineau, Stéphanie Mahévas, Dominique Pelletier, and Benoît Beliaeff: Assessing the impact of marine protected areas on the Hake-Nephrops fishery of the bay of Biscay using ISIS-Fish
Y:10 Poster	Jeremy S. Collie, Rebecca G. Asch, and Page C. Valentine: Biomass in the bank: reserve effects on the benthic fauna inside a closed area
Y:11	Jennifer S. Ashworth, Ayman Mabrouk, and R.F. G. Ormond: How trophic interactions can cause second-order effects of marine reserves
Y:12	Joachim Claudet, G. Criquet, D. Pelletier, JY. Jouvenel, and F. Bachet: Multispecies-based indicators to assess the effectiveness of marine protected areas (MPAs) on rocky reef fish assemblages: an application to a northwestern Mediterranean case study
Y:13	Marion Verdoit-Jarraya, JL. Gouzé, and D. Pelletier: Modelling spatial and seasonal dynamic of the whiting population in the Celtic Sea
Y:14	Aitor Forcada, Just T. Bayle, Pablo Sánchez, Carlos Valle, and Alfonso A. Ramos: Assessment of the effects of protection on fish assemblages in MPAs: a multi-scaling approach
Y:15	David M. Kaplan: Spacing and configuration of marine reserve networks
Y:16	John Meyer and James Byers: Food web structure and the strength of trophic interactions in the Western Gulf of Maine Closure Area
Y:17 Poster	Bryce Beukers-Stewart, Belinda J. Vause, Matthew W. J. Mosley, and Andrew R. Brand: Evidence for larval export of scallops from a small closed area off the Isle of Man
Y:18 Poster	E. Roldán, O. Reñones, X. Mas, O. Villagrasa, and R. Goñi: Evolution of Masía Blanca Marine Reserve (NW Mediterranean, Spain).
Y:19 Poster	D. Alvarez-Berastegui, J. Amengual-Ramis, M. Valls, J. Moreno-Perez, O. Reñones, S. Adlerstein, and R.Goñi: Biomass export from marine protected areas (MPAs) and the fisheries at the Cabrera Archipelago National Park
Y:20 Poster	Joachim Claudet, P. Lenfant, D. Pelletier, JA. García-Charton, JY. Jouvenel, and ML. Licari: The need of implying habitats for the assessment of the effectiveness of Marine Protected

Areas (MPAs) on temperate rocky fish assemblages

Y:21 Poster Géraldine Criquet, Joachim Claudet, and José-Antonio Garcia Charton: Indicators to assess MPAs effectiveness: an approach based on commercial fisheries and Underwater Visual Census in a northwestern Mediterranean case study
 Y:22 Poster Aitor Forcada. Patrick Bonhomme, Carlos Valle, Gwenaël Cadiou, and Jose Luis Sánchez-Lizaso: Fish Biomass gradients from marine protected areas: assessments of the effects of protection on local fisheries catches.
 Y:23 Withdrawn

Y:24 Poster *Ewan Hunter, Fiona Berry, Ainsley A. Buckley, Christie Stewart, and Julian D. Metcalfe*: Seasonal migration of thornback rays and implications for closure management

How Useful are Biological Effects Measurements in Marine Ecosystem Management? (Z)

Z:01	Kevin V. Thomas, J. Balaam, Y. Chan-Man, M. R. Hurst, J. E. Thain: The use of in vitro bioassays and bioassay-directed analysis/TIE in Marine Ecosystem Management	
Z:02	John E. Thain, S Feist, S.George, M. Gubbins, B. Lyons, A. MacIntosh and R. Reynolds: The role of biomarkers in the UK National Monitoring Programme	
Z:03	J. E. Thain and Yvonne T. Allen: Sediment bioassays and their use in managing the disposal of dredged material in the marine environment	
Z:04	Dorota Napierska, Magdalena Podolska, and Eugeniusz Andrulewicz: Usefulness of enzyme activity measurements in flounder <i>Platichthys flesus</i> from the Polish coastal area of the Baltic Sea as a biomarker of chemical contamination	
Z:05	Leili Järv, Mart Simm, and Ott Roots: Quality criteria for DDT and HCH in Estonian coastal sea perch (Perca fluviatilis L.) as a source for changes in fisheries management and price policy in the future	
Z:06	M. J. Gubbins, M O'Reilly, L. McIlroy, J. Thain, and I. M. Davies: A decade of UK organo-tin-specific biological effects monitoring -trends, ecological quality assessment and future monitoring requirements.	
Z:07	Withdrawn	
Z:08	Ketil Hylland: Are biological effects measurements and risk assessment compatible?	
Z:09	<i>Ketil Hylland</i> : Assessing the impact of effluents from offshore activities by their biological effects – local and regional scales	
Z:10	Ketil Hylland, Eivind Bøe, Anders Ruus, Knut-Erik Tollefsen, Torsten Källqvist, Thomas Hartnik, John E. Thain, and Anita Evenset: Biological effects in sediment risk assessment and management	
Z:11 Poster	S. O'Neill and S. Ripp: Contribution of a sea-going microbial biosensor to the management of environmental contamination by small chain PAHs	
Z:12 Poster	M. J. Gubbins, L. Lawton, B. T. G. Gowland, I. M. Davies, C. F. Moffat: Biological effects of fish farm chemotherapeutants on non-target marine crustaceans - A potential monitoring tool for regulators?	
Z:13 Poster	S. O'Neill, A Craig, and S.Ripp: Detecting hydrocarbon taint in fish	

Cold Water Corals and Structural Habitats in Deep Water: Biology, Threats and Protection (AA)

AA:01	Withdrawn	
AA:02	Withdrawn	
AA:03		

Withdrawn

AA:04	Robert J. Brock, R. George, and L. Watling: The 3rd International Symposium on Deep-Sea Corals – the world comes to tropical Miami to discuss coldwater corals and other deep-sea habitat and associated fauna
AA:05	Martha S. Nizinski, Steve W. Ross, and Kenneth J. Sulak: Macrofaunal structure and habitat utilization within deep coral bank communities on the southeastern United States slope
AA:06	Robert Y. George: Lophelia bioherms and lithoherms as fish habitats on the Blake Plateau: Biodiversity and Sustainability"
AA:07	Anthony Grehan, V. Unnithan, A. Wheeler, X. Monteys,, T. Beck, M. Wilson, J. Guinan, J. H. Spencer, A. Foubert, M. Klages, and J. Thiede: Evidence of major fisheries impact on cold-water corals in the deep waters off the Porcupine Bank, west coast of Ireland: are interim management measures required?
AA:08	Jan Helge Fosså, Alvsvåg and Pål B. Mortensen: Status of mapping and management of cold-water coral reefs in Norway
AA:09	A. A. Rowden, M. R. Clark, and S. O'Shea: The influence of deepwater coral habitat and fishing on benthic faunal assemblages of seamounts on the Chatham Rise, New Zealand
AA:10	Pål Buhl Mortensen and Jan Helge Fosså: Species diversity and spatial distribution of invertebrates on Lophelia reefs in Norway
AA:11 Poster	Lene Buhl-Mortensen and Pål B. Mortensen: Distribution and diversity of species associated with deep-water gorgonian corals off Atlantic Canada
AA:12	Kenneth J. Sulak, Steve W. Ross, and Martha S. Nizinski: Lophelia pertusa landscapes and megafaunal biotopes on the Blake Plateau off the southeastern U.S.

Cephalopod Stocks: Review, Analysis, Assessment, and Sustainable Management (CC)

CC:01	Jaime Otero Villar, A. F. González, A. Guerra, M. Regueira, and M. E. Garci: Reproductive biology of Octopus vulgaris in an upwelling area (NE Atlantic)
CC:02	Hideaki Kidokoro and Ken Mori: Stock assessment methods and management procedure of Todarodes pacificus in Japan
CC:03	Anna Di Cosmo, Marina Paolucci, and Carlo Di Cristo: Progesterone and 17ß-estradiol involvement in the yolk protein synthesis in the ovary of Octopus vulgaris
CC:04	A. M. Costa and J. Pereira: Long-time conservation of biological structures as a possible solution for time-series preservation
CC:05	S. Lourenço and J. Pereira: Abundance of the common octopus (Octopus vulgaris) and sea surface temperature off the Portuguese coast
CC:06	<i>Ch.M. Nigmatullin</i> ; Estimation of biomass, production and fishery potential of ommastrephid squids in the World Ocean and problems of their fishery forecasting
CC:07 Poster	E. Le Bihan, C. Zatylny, A. Perrin, and N. Koueta: Studies of post-mortem evolution of cuttlefish viscera during their storage at two different temperatures
CC:08	J. Sendão, P. Calixto, and T.C. Borges: Behaviour of the common octopus (Octopus vulgaris) towards entrapment fishing gears: clay and plastic pots ("alcatruzes") and iron traps ("covos")
CC:09	Rui Rosa, João Pereira, and Maria L. Nunes: Biogeography, biology and biochemistry of the deep-sea cirrate octopus Opisthoteuthis from the Portuguese continental slope
CC:10	<i>Ch.M. Nigmatullin, A.V. Zimin, and A.Z. Sundakov</i> : The stock and fishery variability of the Argentine squid <i>Illex argentinus</i> in 1982-2004 related to environmental conditions
CC:11	N.Koueta, E. Le Bihan E., and A. Perrin: Effect of amino acid on isolated cells of digestive gland of cuttlefish Sepia Officinalis
CC:12 Poster	X. Mas, O. Reñones, and R. Goñi: Cuttlefish trammel net artisanal fishery in the Balearic Islands (Western Mediterranean)
CC:13	M.Sacau, J. Wang, A. I. Arkhipkin, J. Portela, G. J. Pierce, Paul Brickle, and X. Cardoso: The spatio-temporal pattern of Argentine shortfin squid <i>Illex argentinus</i> abundance in the Spanish bottom-trawl

fishery in the southwest Atlantic

CC:14	Frank Melzner, C. Bock, and HO. Pörtner: Coordination of ventilation and circulation in the cuttlefish Sepia officinalis (L.) in the light of an oxygen limitation of thermal tolerance
CC:15	Abdelmalek Faraj and Nicolas Bez: Advantages and limits of the direct approach for the octopus stock assessment, geostatistical approach
CC:16	Pedro R. Costa, Rui Rosa, João Pereira, and Maria A. M. Sampayo: Detection of domoic acid, the amnesic shellfish toxin, in the digestive gland of <i>Eledone cirrhosa</i> and <i>E. moschata</i> (Cephalopoda, Octopoda) from the Portuguese coast
CC:17	Abdelmalek Faraj and Nicolas Bez: Spatial pattern of the octopus life cycle in the South Atlantic of Morocco
CC:18 Poster	Marina Santurtún, Yolanda Sagarminaga, Paulino Lucio, Ibon Galparsoro, Iñaki Quincoces, and Ane Iriondo: Intrannual trends in catches of squid (Loligo spp.) in the Bay of Biscay (ICES Div. VIIIa, b, d) during 2000 in relation to oceanographic features
CC:19	E. Lefkaditou, J. Haralabous, D. Sarikas, S. Karamelidou and S. Kavadas: The cephalopods in the small-scale fishery in the eastern Thracian Sea (NE Mediterranean)
CC:20	Ana Moreno, João Pereira, and Manuela Morais da Cunha: The effect of time of hatching in age and size at maturity of Loligo vulgaris
CC:21	Rui Rosa, João Pereira, Pedro R. Costa, and Maria L. Nunes: Distribution, abundance, biology and biochemical profile associated to sexual maturation of the Stout bobtail squid Rossia macrosoma from the Portuguese coast
CC:22	L. Challier, J. Royer, G. J. Pierce, N. Bailey, B. A. Roel, and J. P. Robin: Preliminary analysis of stock-recruitment relationships in the English Channel squid Loligo forbesi
CC:23 Poster	M. Thomas, L. Challier, M. B. Santos, G. J. Pierce, A. Moreno, J. Pereira, M. M. Cunha, F. Porteiro, J. Gonçalves, and J. P. Robin: Spatial differences in biological characteristics of Loligo forbesi (Cephlaopoda Loliginidae) in the Northeast Atlantic.
CC:24	L. Challier, M. R. Dunn, and J. P. Robin: Trends in age-at-recruitment and juvenile growth in the English Channel cuttlefish Sepia officinalis
CC:25	Erica A.Vidal, Dominique P. Ibbotson, and Edward J. Buskey: Factors affecting the encounter and feeding rates in squid paralarvae
CC:26 Poster	A. R. G Tomás, M. A. Gasalla, B. G. Loyo, and C. A. Marques: Cephalopods in the trawl fisheries in the southeastern Brazil (1979–2000)
CC:27 Poster	Acácio R.G Tomás, Antônio O Ávila-da-Silva,, and Gastão C.C Bastos: Pot fishery for octopus, an alternative for trawling in São Paulo State coast, southeastern Brazil
CC:28	G. Stowasser, G. J. Pierce, C. Moffat, and M. A. Collins: Ontogenetic changes in the diet of L. forbesi: insights from fatty acid and stable isotope analysis.
CC:29	A. Guerra, A. F. González, and F. Rocha: A review of records of giant squid in the north-eastern Atlantic and severe injuries in Architeuthis dux stranded after acoustic exploration
CC:30	J. M. Smith, G. J. Pierce, A. F. Zuur, and P. R. Boyle: Patterns of investment in reproductive and somatic growth in Loligo forbesi
CC:31	G. J. Pierce, P. R. Boyle, A. Zuur, and J. M. Smith: Interannual variation in life-cycle characteristics of Loligo forbesi
CC:32 Poster	P. R. Boyle, G. J. Pierce, L. C. Hastie, J. Wang, M. B. Santos, J. P. Robin, and P. Jereb: Review of variation in the life-cycle of Loligo forbesi across its range
CC:33 Poster	I. A. G. Young, G. J. Pierce, J. Wang, P. R. Boyle, J. M. Smith, and N. Bailey: The Moray Firth directed squid fishery
CC:34	CS. Chen, G. J. Pierce, J. Wang, P. R. Boyle, N. Bailey, JP. Robin, and I. Sobrino: The disappearance of Loligo forbesi from the south of its range in the 1990s
CC:35	S. Seixas, P. Bustamante, and G. J. Pierce: Interannual patterns of variation in concentrations of trace elements in arms of Octopus vulgaris in two localities on the Portuguese coast

Mortality and Linkages between Fish Eggs/Larvae and their Predators in Marine Ecosystems – A Multidisciplinary Approach (DD)

DD:01	Dariuz Fey, J. Hare, and E. Laban: Growth-mortality hypothesis evaluation for Atlantic menhaden (Brevoortia tyrannus) larvae
DD:02	Aril Slotte, Nina Mikkelsen, and Harald $Gj\phi s\alpha ter$: Egg cannibalism in Barents Sea capelin in relation to a narrow spawning distribution
DD:03	Maria Fossheim, M. Zhou, A. Edvardsen, and K. S. Tande: Biological interactions in zooplankton explored by OPC data
DD:04	Ole-Petter Pedersen, M. Zhou, and K.S. Tande: Semi-stable retention areas on the coast of Northern Norway
DD:05	Elvar H. Hallfredsson and Torstein Pedersen: Effects of predation from juvenile herring on mortality rates of capelin larvae in the Barents Sea
DD:06	Dag Slagstad: Drift patterns of capelin larvae based on field data and simulated fields from high resolution model off Finmark
DD:07	Juan Zwolinski, Evan Mason, Álvaro Peliz, Paulo Oliveira, and Yorgos Stratoudakis: Use of the continuous underwater fish egg sampler (CUFES) to study the small scale distribution of sardine (Sardina pilchardus) egg patches.
DD:08	Ronny A. Jakobsen, Torstein Pedersen, and Erlend Moksnes: Growth and age distributions of capelin (Mallotus villosus) larvae in the Barents Sea investigated by otolith increment analysis
DD:09	Trond Ivarjord, Torstein Pedersen and Erlend Moksness: Do capelin larvae deposit daily increments in their otoliths?
DD:10	Kjell R. Andersen, Elvar Hallfredsson, and Torstein Pedersen: Prey recognition of capelin (Mallotus villosus) larvae in juvenile cod (Gadus morhua L.) stomachs
DD:11	M. A. Barbieri, J. Córdova, M. Espejo, F. Gerlotto, and E. Yáñez: Spatial spawning strategy of Jack Mackerel (<i>Trachurus symmetricus</i> murphyi) off the Central-South region of Chile
DD:12	Kim Præbel, Jørgen S. Christiansen, and Svein-Erik Fevolden: Spawning habitat and egg mortality in capelin (Mallotus villosus) - responses to extreme abiotic conditions
DD:13	Ignacio Olaso, P. Abaunza, B. Villamor, A. Lago, C. Porteiro, , C. Franco, J.R. Perez and F. Velasco: Mackerel egg predation by cannibalism during the spawning season
DD:14 Poster	Norbert Rohlf: In-situ studies on the small-scale distribution of capelin larvae (Mallotus villosus)
DD:15 Poster	Torstein Pedersen, Kurt Tande, Svein Erik Fevolden and Jørgen Schou Christensen: Capelin and Herring in the Barents Sea – Coexistence or Exclusion (BASECOEX)

Stock Identification Methods (EE)

EE:01	Cornelius Hammer and Christopher Zimmermann: The role of stock identification in formulating fishery management advice
EE:02	Kevin D. Friedland and Steven X. Cadrin: Analyses of calcified structures-texture and spacing patterns

EE:03	Catherine G.J. Michielsens, M-L. Koljonen, and S. Mäntyniemi: The use of genetic stock identification results for the assessment of wild Baltic salmon stocks
EE:04	Steve Cadrin, Kevin D. Friedland, and John Waldman: Stock identification methods: from working group to book
EE:05	Steve Cadrin and Kevin D. Friedland: Morphometric stock identification
EE:06	Ken MacKenzie and Pablo Abaunza: Parasites as biological tags
EE:07	Ann-Britt Florin and T. Aho: Stock identification and genetic variation of fishes in the Baltic Sea
EE:08	Marja-LiisaKoljonen: Changes in stock composition of annual Atlantic salmon catches in the Baltic Sea on basis of DNA-microsatellite data and Bayesian estimation
EE:09	Jon Brodziak: Maximum likelihood estimation of stock composition
EE:10	Withdrawn
EE:11	G. Blanco, Y. Borrell, E. Cagigas, E. Vázquez, and J. A. Sánchez: The genetic tools in stock identification
EE:12	Withdrawn
EE:13	Mary C. Fabrizio: Experimental design and sampling strategies for mixed stock analysis
EE:14	Ana G. F. Castillo and E. Garcia-Vazquez: Fine spatial structure of Atlantic hake (Merluccius merluccius) stocks revealed by variation at microsatellite loci
EE:15	A. Murta et al.: Using artificial neural networks for the stock delimitation of horse mackerel (Trachurus trachurus)
EE:16	Rebekka Varne and Jarle Mork: Blue whiting (Micromesistius poutassou) stock components in samples from the northern Norwegian Sea and Barents Sea, winter 2002
EE:17	Withdrawn
EE:18	O. Grahl-Nielsen: Fatty acid profiles as natural marks for stock identification
EE:19	P. Abaunza, A. Murta, S. Mattiucci, R. Cimmaruta, G. Nascetti, A. Magoulas, A. Sanjuan, S. Comesaña, K. MacKenzie, J. Molloy, A. T. Santos, S. Iversen, G. Dahle, L. Gordo, C. Stransky, C. Zimmermman, M. T. Santamaria, P. Ramos, R. Quinta, A. L. Pinto, A. Ruggi, and N. Campb: Stock discrimination of horse mackerel (<i>Trachurus trachurus</i>) in the Northeast Atlantic and Mediterranean Sea: integrating the results from different stock identification approaches
EE:20	Héila Macara, R. Duarte, and C. Morgado: An approach to population homogeneity of hake (Merluccius merlucius L.) of the Portuguese continental coast attending to morphometric and physiologic characteristics
EE:21	Withdrawn
EE:22	Rafael Duarte, I. Bruno, I. Quincoces, A.C. Fariña and J. Landa: Morphometric and meristic study of white and black anglerfish (Lophius piscatorius and L. budegassa) from the south-west of Ireland to the south-western Mediterranean
EE:23	Robert Aps, H. Lassen, J. Rice, K. Andrejeva, and J. Aps: Application of Baltic herring and cod stock identification results to fishery management
EE:24	Bruno Caneco, Alexandra Silva, and Alexandre Morais: Morphometric variation among anchovy (Engraulis encrasicholus, L) populations from the Bay of Biscay and Iberian waters
EE:25	Antonio Celso Fariña, R. Duarte, J. Landa, I. Quincoces, and J.A. Sánchez: Multiple stock identification approaches of anglerfish (<i>Lophius piscatorius</i> and <i>L. budegassa</i>) in western and southern European waters
EE:26	Deirdre Brophy and Pauline King: An investigation of stock structure in blue whiting (Micromesistius poutassou) using otolith microstucture and core morphometry

EE:27	Lotte A.W. Clausen, H. Mosegaard, D. Bekkevold, and D. Ruzzante: Phenotypic characteristics in genetically different populations in the Skagerrak
EE:28	Jákup Reinert and Hóraldur Joensen: Morphometric analysis of Sebastes mentella in the North Atlantic
EE:29	Jan Arge Jacobsen and Lars Petter Hansen: Conventional tagging methods in stock identification: internal and external tags
EE:30 Poster	Magdalena Podolska and Mirosław Wyszyński: The population membership of the Baltic herring infected with Anisakis simplex larvae.
EE:31 Poster	Suzanne Ware: Differences in spawning origins of juvenile whiting Merlangius merlangus (L.) inhabiting inshore waters on the west coast of Scotland inferred by otolith microchemistry
EE:32	S. Mariani: Admixture analysis of herring feeding aggregations in the northern North Sea

Modelling Marine Ecosystems and their Exploitation (FF)

FF:01	Jose M. Bellido, Nélida Pérez, and Laura Lema: Optimal Allocation Hauls Sampling in order to Reduce Bias within Fishing Trip in Trawlers Operating in The Grand Sole and Porcupine Areas (NE Atlantic)
FF:02	Mark L. Soboil and Jon G. Sutinen: Empirical Analysis of the Transboundary Dynamics for Georges Bank Groundfish
FF:03	Jesús Jurado-Molina and P. A. Livingston: Perspectives of multispecies management in the eastern Bering Sea.
FF:04	Verena M. Trenkel, Marie-Joëlle Rochet, and Tewfik Sari: A new class of predator prey models for evaluating exploited systems
FF:05	Verena M. Trenkel, John K. Pinnegar, and Alex N. Tidd: Can multispecies models be expected to provide better assessments for Celtic sea groundfish stocks?
FF:06	Eckhard Bethke: A new multi-species model for sustainable exploitation of fish stocks with special regard to cod and flounder fishery in the Baltic Sea
FF:07	Jon K. T. Brodziak, Christopher M. Legault, Laurel A. Col, and William J. Overholtz: Production of demersal and pelagic species biomasses in the northeast USA continental shelf ecosystem
FF:08	Tatiana Bulgakova: A simulation testing of various management regimes for the NEA cod stock
FF:09	Peter Bromley and Mike Armstrong: Spatial interactions between newly settled 0-group cod and their principal predators in the North Sea
FF:10	Jan Jaap Poos and A. D. Rijnsdorp: Spatial segregation between unequal competitors in the Dutch beam trawl fleet
FF:11	S. B. M. Kraak, F.C. Buisman, J. J. Poos, M. Dickey-Collas, M. A. Pastoors, J. G. P. Smit, and N. Daan: How can we manage mixed fisheries? A simulation study of the effect of management choices on the sustainability and economic performance of a mixed fishery.
FF:12	Emmanuel Chassot, P. Bernard, T. Rouyer and D. Gascuel: From biology to economy: application of a static Computable General Equilibrium Model (CGEM) to the fishing industry in Finistère (France)
FF:13	J. Begley and D. Howell: An overview of Gadget, the Globally applicable Area-Disaggregated General Ecosystem Toolbox
FF:14	Audrey Colomb, Yunne-Jai Shin, Didier Gascuel, and Jean Le Fur: Using MOOVES, an individual-based model of the Guinean ecosystem, for assessing the response of trophodynamic and size-based indicators to fishing pressure
FF:15	V. Kupca: A standardized database for fisheries data
FF:16	Withdrawn

FF:17	Morgane Travers, Yunne Shin, Lynne Shannon, Philippe Cury: Evaluation of ecological indicators for an Ecosystem Approach to Fisheries: application to the southern Benguela upwelling ecosystem
FF:18	Joachim P. Gröger, Tu Truong, Brian J. Rothschild, and F. Azadevar: A New Approach Towards an Optimal Control of Fisheries on Georges Bank: the SMAST Groundfish Optimization Simulation Model
FF:19	Peter J. Bromley: The use of ecosystem indices to investigate the decline of recruitment and spawning stock biomass in North Sea cod (Gadus morhua L.)
FF:20	Peter Lewy and Morten Vinther: Modelling stochastic age-length-structured multispecies stock dynamics
FF:21	Geir Huse: The impact of movement rules on predator-prey encounters in multispecies models
FF:22	Daniel Howell: Comparison of the effects of forced errors in survey data between an age and an age- and-length structured model of Northeast Arctic Cod
FF:23	L. Taylor, J. Begley, V. Kupca, and G. Stefansson: A Simple Implementation of Gadget for Cod in Icelandic Waters
FF:24	Höskuldur Björnsson and Einar Jónsson: Estimation of hidden mortality of Icelandic haddock caused by the fisheries
FF:25	Kjartan G. Magnússon, Sven Th. Sigurdsson, and Petro Babak: Estimation of fish movement parameters from tagging data, with application to Atlantic cod (Gadus morhua)
FF:26	G. Stefansson and L. Taylor: Verifying consistency when fitting complex statistical models to multiple data sets with applications to fish population dynamics and fisheries
FF:27	Paul Marchal, Bo Andersen, David Bromley, Ane Iriondo, Stéphanie Mahévas, Floor Quirijns, Brian Rackham, Marina Santurtun, and Nicola Tien: Linking fishing effort and fishing mortality in a mixed-fisheries context
FF:28	Sophie Bertrand, Francois Gerlotto, Julian M. Burgos, and Erich Diaz: Fish and fishers predator-prey relationships: fishing vessel trajectories to assess the dynamics of pelagic fish spatial distribution
FF:29	Lorna Taylor and G. Stefansson: Gadget models of cod-capelin-shrimp interactions in Icelandic waters
FF:30	S. Hannesson, A. Jakobsdottir, J. Begley, L.A. Taylor and G. Stefansson: On the use of tagging data in statistical multi-area models of marine populations
FF:31	Martin Dorn: Extending separable age-structured assessment models to evaluate trends in juvenile mortality of walleye modeling in the Gulf of Alaska
FF:32	John Pope, Jake Rice, Simon Jennings, Niels Daan, and Henrik Gislason: Are the slopes of size spectra a useful tool for measuring the impact of fisheries in multispecies systems?
FF:33	$Ulf Lindstr\phi m$: Simulation of minke whale suitabilities with special emphasis on herring, capelin and krill
FF:34	Kjartan G. Magnússon, Sven Th. Sigurdsson, and Eva Hlín Dereksdóttir: A simulation model for capelin migrations in the North-Atlantic
FF:35 Poster	Jesus M. Torres Palenzuela and Juan M. Corchado: Forecasting system for fishing effort in Galician craft fleet (Spain)
FF:36	Jason Matthiopoulos, Christian Asseburg, Sophie Smout, and John Harwood: Fitting functional responses to field data: evaluating the multispecies functional responses of grey seals and harp seals
FF:37 Poster	Claudio E Gatica Molina and Jesús Jurado-Molina: Incorporating cannibalism in the stock assessment of hake in central Chile
FF:38 Poster	John K. Pinnegar, Nicholas V.C. Polunin, and Peter J.W. Olive: Stable Isotopes: from a theoretical model to a useful ecological tool for exploring food-webs.
FF:39 Poster	Julia L. Blanchard, Nick K. Dulvy, Jim E. Ellis, Simon Jennings, John K. Pinnegar, Alex Tidd, and Laurence T. Kell: Fishing and environmental effects on size-based indicators of Celtic Sea fish community structure?
FF:40 Poster	G. M. Daskalov and S. Mackinson: Trophic modeling of the North Sea

FF:41 Poster G. M. Daskalov: Efficiency of trophic interactions as an indicator of food web structure

FF:42 Poster Maciej Tomasz Tomczak: Preliminary model of the Puck Lagoon ecosystem: an investigation using

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