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### GENERAL ASSEMBLY REPORTS AND PAPERS OF GENERAL INTEREST

Gen:1	Observers' Reports from Cooperating Organisations		
Gen:2	ICES Activities in 2001/2002		
Gen:3	Elections and Appointments of Council Officials at 2002 Annual Science Conference (90th Statutory Meeting) (E+F)		
Gen:4	Report on ICES Symposia		
Gen:5	2001/2002 Overview of ICES Committees and Subsidiary Groups and their Shadowing by Secretariat Staff, and Schedule of ICES Meetings and List of CM Codes		
	DELEGATES MEETING		
Del:1	Final Accounts for Financial Year 2000		
Del:2	Progress Report on Administration		
Del:3	Salmonid Affairs in the ICES Structure		
Del:4	Status Report of Accounts as of 15 September 2002		
Del:5	Draft Budget for 2003 and Draft Forecast Budget for 2004		
Del:6	Report of Working Group on Long-Term Finances		
Del:7	Draft ICES Integrated Action Plan		
Del:8	Proposal for Establishing Affiliate National Members		
Del:9	Arrangements for future Annual Science Conferences and Statutory Meetings: 2003 and		
	2004		
Del:10	Proposal for an Environmental Dialogue Meeting		
Del:11	Statistics on ASC participation 1992–2001		
Del:12	Report of the ICES/Commissions Working Group on Cooperative Procedures		
Del:13	Report of Management Committee for the Advisory Process (including the Report of the		
	Study Group on ACFM Procedures)		
Del:14	Report of the GEF Baltic Regional Project		
Del:15	Rules for External Observers at Advisory Committee Meetings		
Del:17	ICES/NAFO MoU		
Del:17	Appointment of ACFM Chair		
Del. 18	Social Activities		
Del:17	Appointment of ACFM Chair		

### FINANCE COMMITTEE

Fi:1\* Agenda for Finance Committee

<sup>\*</sup> For Finance Committee and Delegates only

### **PUBLICATIONS COMMITTEE**

Pub:1	Agenda for Publications Committee		
Pub:2	Report of Publications Committee (2001)		
Pub:3	Review of ICES Publication Activities for 2002		
Pub:4	ICES Journal of Marine Science: Editors' Report for 2002		
Pub:5	ICES Journal of Marine Science: Academic Press Publisher's Report for 2002, with Appendix		
Pub:6	ICES Cooperative Research Report series: Editor's Report for 2002		
Pub:7	ICES Identification Leaflets for Plankton: Editor's Report for 2002		
Pub:8	ICES Identification Leaflets for Diseases and Parasites of Fish and Shellfish: Editor's Report for 2002		
Pub:9	ICES Techniques in Marine Environmental Sciences: Editor's Report for 2002		

### **CONSULTATIVE COMMITTEE (A)**

A:01 Ref. ACFM, ACME, ACE	Minutes from ACFM meeting October 2001
A:02 Ref. ACFM, ACME, ACE	2001/2002 Intersessional activities of Consultative Committee
A:04 Ref. ACFM, ACME, ACE	Minutes from ACFM meeting May 2002
A:05 Ref. ACFM, ACME, ACE	Minutes from ACME meeting June 2002
A:06 Ref. ACFM, ACME, ACE	Minutes from ACE meeting June 2002
A:08 Ref. Bureau ACFM, ACME, ACE	MCAP report August 2001
A:09 Ref. Bureau, ACFM, ACME, ACE	MCAP report January 2002

### MCAP

MCAP:01	Study Group on ACFM Working Procedures (SGWP)
Ref. ACFM	

### **ACFM**

ACFM:01	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak (WGNSSK)		
ACFM:02	Working Group on the Assessment of Northern Shelf Demersal Stocks (WGNSDS)		
ACFM:03	Working Group on Eels (WGEEL)		
ACFM:04 Ref. G	Pandalus Assessment Working Group (WGPAND)		
ACFM:05	Working Group on the Assessment of Southern Shelf Demersal Stocks (WGSSDS)		
ACFM:06	Working Group on the Assessment of Mackerel, Horse Mackerel, Sardine, and Anchovy (WGMHSA)		
ACFM:07	Planning Group on Commercial Catch, Discards and Biological Sampling (PGCCDBS)		
ACFM:08	Fisheries Statistics Liaison Working Group (WGSTAL)		
ACFM:09 Ref. D, G	Study Group on Discard and By-Catch Information (SGDBI)		
ACFM:10 Ref. ACE, D	Study Group on the Further Development of the Precautionary Approach to Fishery Management (SGPA)		
ACFM:11 Ref. G	Study Group on Sea Bass (SGBASS)		
ACFM:12	Herring Assessment Working Group for the Area South of 62°N (HAWG)		
ACFM:13	Baltic Salmon and Trout Assessment Working Group (WGBAST)		
ACFM:14	Working Group on North Atlantic Salmon (WGNAS)		
ACFM:15	Working Group on Nephrops Stock (WGNEPH)		
ACFM:16 Ref. G	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources (WGDEEP)		
ACFM:17	Baltic Fisheries Assessment Working Group (WGBFAS)		
ACFM:18	Arctic Fisheries Working Group (AFWG)		
ACFM:19	Northern Pelagic and Blue Whiting Fisheries Working Group (WGNPBW)		
ACFM:20	North-Western Working Group (NWWG) + Addendum		
ACFM:21 Ref. WGBFAS	Study Group on Baltic Herring and Sprat Maturity (SGBHSM)		

REFERENCE PAPERS: A:01, A:02, A:04, A:05, A:06, A:08, A:09, B:01, C:02, C:10, D:02, D:03, D:04, D:05, D:06, D:07, D:08, D:09, F:03, G:03, G:04, G:07, G:08, G:09

### **ACME**

ACME:01 Ref. E	ICES/AMAP Study Group for the Assessment of AMAP POPs and Heavy Metals Data (SGPOP)		
ACME:02 Ref. C, E, H	ICES/HELCOM Steering Group on Quality Assurance of Chemical Measurements in the Baltic Sea		
ACME:03 Ref. C, E, H	(SGQAC) ICES/HELCOM Steering Group on Quality Assurance of Biological Measurements in the Baltic Sea (SGQAB)		
ACME:04 Ref. C, E	ICES/OSPAR Steering Group on Quality Assurance of Biological Measurements in the Northeast Atlantic (SGQAE)		
ACME:05 Ref. E, F	ICES/IMO/IOC Study Group on Ballast and Other Ship Vectors (SGBOSV)		
ACME:06 Ref. E, F	Working Group on Introductions and Transfers of Marine Organisms (WGITMO)		

REFERENCE PAPERS: A:01, A:02, A:04, A:05, A:06, A:08, A:09, C:02, C:03, C:04, C:05, C:06, C:07, C:10, C:16, E:01, E:02, E:03, E:04, E:06, E:07, F:02, F:03, F:04, H:02

### **ACE**

ACE:01	Study Group on Integrated Data Management (SGIDM) (No report. Meeting postponed until next year)		
ACE:02 Ref. E, G	Working Group on Marine Mammal Population Dynamics and Habitat (WGMMPH)		
ACE:03 Ref. D, E, G	Working Group on Ecosystem Effects of Fishing Activities (WGECO)		
ACE:04 Ref. E	Study Group on Ecosystem Assessment and Monitoring (SGEAM)		
ACE:05 Ref. E, WGECO	Study Group on Mapping the Occurrence of Cold Water Corals (SGCOR)		

REFERENCE PAPERS: A:01, A:02, A:04, A:05, A:06, A:08, A:09, C:02, C:04, C:05, C:06, C:07, C:10, C:12, C:14, D:03, D:04, D:07, D:09, E:01, E:05, E:06, G:04, G:10, H:03

### FISHERIES TECHNOLOGY COMMITTEE (B)

B:01 Ref. ACFM	ICES-FAO Working Group on Fishing Technology and Fish Behaviour (WGFTFB)	
B:02	Study Group on Mesh Measurements Methodology (SGMESH)	
B:03	Study Group of Target Strength Estimation in the Baltic Sea (SGTSEB) (Report not available)	
B:04	Planning Group on the HAC Data Exchange Format (PGHAC)	
B:05	Working Group on Fisheries Acoustics Science and Technology (WGFAST)	
B:06	Summary of Conclusions - Expert Group Reports	

### **REFERENCE PAPER: G:09**

### OCEANOGRAPHY COMMITTEE (C)

C:01 Ref. D, WGRP	Study Group on Incorporation of Process Information into Stock Recruitment Models (SGPRISM)		
C:02 Ref. D, E, G, ACFM, ACME, ACE	ICES-EuroGOOS Planning Group on the North Sea Pilot Project (PGNSP)		
C:03 Ref. ACME	ICES-IOC Working Group on Harmful Algal Bloom Dynamics (WGHABD)		
C:04 Ref. E, F, ACME, ACE	Working Group on Seabird Ecology (WGSE)		
C:05 Ref. ACME, ACE	Workshop on New Perspectives in Understanding and Predicting Eutrophication (WKNUPE)		
C:06 Ref. ACME, ACE	Working Group on Phytoplankton Ecology (WGPE)		
C:07 Ref. ACME, ACE	Working Group on Zooplankton Ecology (WGZE)		
C:08	Working Group on Oceanic Hydrography (WGOH)		
C:09	Study Group on Modelling of Physical/Biological Interactions (SGPBI)		
C:10 Ref. ACFM, ACME, ACE	ICES/IOC Steering Group on GOOS (SGGOOS)		
C:11	Working Group on Marine Data Management (WGMDM)		
C:12 Ref. ACE	Study Group on the Development of Marine Data Exchange Systems using XML (SGXML)		
C:13	Workshop on the Transport of Cod Larvae (WKTCL)		

C:14 Ref. ACE	Working Group on Recruitment Processes (WGRP)
C:15	The ICES/GLOBEC Working Group on Cod and Climate Change (WGCCC)
C:16 Ref. ACME	Study Group on an ICES/IOC Checklist of Phytoplankton and other Protists (SGPHYT) (Report not available)
C:17	The Steering Group for the ICES/GLOBEC North Atlantic Programme and Regional Office (SGNARO)
C:18	Summary of Conclusions - Expert Group Reports

REFERENCE PAPER: ACME:02, 03, 04, E:07

ACE:

### RESOURCE MANAGEMENT COMMITTEE (D)

Working Group on Methods on Fish Stock Assessments (WGMG) D:01 Workshop Course on Fish Stock Assessment Techniques (WKCFAT) D:02 Ref. G, ACFM International Bottom Trawl Survey Working Group (IBTSWG) D:03 Ref. G, ACFM, ACE Workshop on MSVPA in the North Sea (WKMSNS) D:04 Ref. ACFM, ACE Planning Group on North Sea Cod and Plaice Egg Surveys (PGEGGS) D:05 Ref. G, ACFM. WGNSSK Study Group on Age-length Structured Assessment Models (SGASAM) D:06 (No report. Meeting postponed until next year) Ref. ACFM Planning Group on Surveys on Pelagic Fish in the Norwegian Sea (PGSPFN) D:07 Ref. ACFM, **ACE** Planning Group on Redfish Stocks (PGRS) D:08 Ref. ACFM D:09 Working Group on Fishery Systems (WGFS) Ref. ACFM,

REFERENCE PAPERS: ACFM:09, ACFM:10, ACE:03, C:01, C:02, G:02, G:06, G:10

### MARINE HABITAT COMMITTEE (E)

E:01

Marine Chemistry Working Group (MCWG)

Ref. C,

ACME, ACE

E:02

Working Group on Biological Effects of Contaminants (WGBEC)

Ref. ACME

E:03

Working Group on Marine Sediments in Relation to Pollution (WGMS)

Ref. ACME

E:04

Working Group on the Statistical Aspects of Environmental Monitoring

Ref. ACME

(WGSAEM)

E:05

Working Group on Marine Habitat Mapping (WGMHM)

Ref. ACE

E:06

Working Group on the Effects of Extraction of Marine Sediments on the Marine

Ref. D,

Ecosystem (WGEXT)

ACME, ACE

E:07

Benthos Ecology Working Group (BEWG)

Ref. C, ACME

REFERENCE PAPERS: ACME:01, ACME:02, ACME:04, ACME:05, ACME:06, ACE:02, ACE:03, ACE:04, ACE:05, C:02, C:04, G:07

### MARICULTURE COMMITTEE (F)

F:01

Working Group on Marine Fish Culture (WGMAFC)

F:02

Working Group on Pathology and Diseases of Marine Organisms (WGPDMO)

Ref. ACME

F:03

Working Group on the Application of Genetics in Fisheries and Mariculture

Ref. ACFM.

**ACME** 

F:04

Working Group on Environmental Interactions of Mariculture (WGEIM)

Ref. ACME

REFERENCE PAPERS: ACME:05, ACME:06, C:04

(WGAGFM)

### LIVING RESOURCES COMMITTEE (G)

G:01 Study Group on the Estimation of Spawning Stock Biomass of Sardine and

Anchovy (SGSBSA)

G:02 Planning Group for Herring Surveys (PGHERS)

Ref. D, HAWG

G:03 Ref. Planning Group on Aerial and Acoustic Surveys for Mackerel (PGAAM)

ACFM, B

G:04 Working Group on Cephalopod Fisheries and Life History (WGCEPH)

Ref. ACFM,

**ACE** 

G:05 Ref. H Baltic International Fish Survey Working Group (WGBIFS)

G:06 Ref. D, Working Group on Mackerel and Horse Mackerel Egg Surveys (WGMEGS)

**WGMHSA** 

G:07 Working Group on Beam Trawl Surveys (WGBEAM)

Ref. E, ACFM

G:08 Study Group on Elasmobranch Fishes (SGEF)

Ref. ACFM

G:09 Working Group on Crangon Fisheries and Life History (WGCRAN)

Ref. B, ACFM (Reporting to CM 2003)

G:10 Study Group on the Biology and Life History of Crabs (SGCRAB)

Ref. D, ACE

G:11 Stock Identification Methods Working Group (SIMWG)

REFERENCE PAPERS: ACFM:04, ACFM:09, ACFM:11, ACFM:16, ACE:02, ACE:03, D:02, D:03, D:05

### **BALTIC COMMITTEE (H)**

H:01 Study Group on Salmon Scale Reading Problems (SGSSR)

H:02 ICES-IOC-SCOR Study Group on GEOHAB in the Baltic (SGGIB)

Ref. ACME

H:03 Study Group on Ecosystem and Multispecies Predictions (SGMPB)

Ref. ACE (Report not available)

H:04 Ref. Study Group on Herring Assessment Units in the Baltic Sea (SGHAUB)

ACFM, D

REFERENCE PAPERS: ACME:02, ACME:03, G:05

## THEME SESSION ON THE USE OF MARINE RESEARCH VESSELS IN ICES – OPTIONS FOR THE FUTURE (J)

Code nr	First Author, Co-Author	Title
J:01	Doug Beare, Coby L. Needle, Finlay Burns, and David Reid	Making the most of research vessel data in stock assessments: examples from ICES Division VIa
J:02	Paul Fernandes, P. Stevenson, A.S. Brierley, F. Armstrong, and E.J. Simmond	AUVs as research vessels: the pros and cons
J:03	Mireille Bouleau and Nicolas Bez	Comparison between "underway" and "on station" acoustic measurements made during bottom trawl surveys
J:04	I. Huse, K. Michalsen, and R. Skeide	Estimates of towing time in surveys
J:05	Odd Nakken and Michael Pennington	Monitoring ecosystems using research surveys; maximizing information and minimizing cost
J:06	A.F. Zuur, D. Stokes, J.C. Mahé, and R. Officer	A hierarchical approach to the statistical analysis of research vessel intercalibration data
J:07	Per W. Nieuwejaar and Hans Petter Knudsen	Safety standards and quality assurance of research vessel programmes
J:08 Poster	Nicolas Bez	Relevancy of indices of abundances of egg and larvae by- catches during triennial mackerel egg surveys
J:09 Poster	Jonna Tomkiewicz	An illustrated manual for macroscopic determination of Baltic cod reproductive status
J:10	R.B. Mitson	Research vessel standards: Underwater radiated noise

# THEME SESSION ON THE INTEGRATION OF ACOUSTIC AND OPTICAL SURVEY TECHNIQUES AND MARINE BIOLOGICAL DATA FOR THE PURPOSE OF SEABED CLASSIFICATION (K)

K:01	C.J. Brown, A.J. Hewer, W.J. Meadows, D.S. Limpenny, K.M. Cooper, and H.L.Rees	Mapping of gravel biotopes: an integrated approach
K:02	R.L. Foster-Smith and P. Gilliland	Using acoustic remote sensing and point samples to map and monitor biota in the dynamic sediments of the Wash, UK
K:03	F. Beuchel and B. Gulliksen	Monitoring of rocky-bottom biotopes in northern Norway and Svalbard using image analysis
K:04	D.S. Limpenny, S.E. Boyd, W.J. Meadows, and H.L. Rees	The utility of habitat mapping techniques in the assessment of anthropogenic disturbance at aggregate extraction sites
K:05	Alain Norro, V.Pison, and J.Ozer	Volumetric evolution of an exploited sandbank. Perspective of use for the Autonomous Underwater Vehicle (AUV) Mauve
K:06	R.J. Kloster, A. Williams, and A. Butler	Exploratory surveys of seabed biotopes in deep water using remote sensing – needs and realities
K:07	Rosa Freitas, Ana Maria Rodrigues, and Victor Quintino	Relating acoustic seabed classification to marine benthic habitats. Examples from the western Portuguese shelf using single-beam echo sounders

K:08	S.M. Freeman,, M. Bergmann, H. Hinz, M.J. Kaiser, J. Bennell, and S. I. Rogers	Use of acoustic seabed classification to identify fish habitats
K:09	S.M. Freeman,, S. Mackinson, and R. Flatt,	Diurnal patterns in the habitat utilisation of sandeels using acoustic survey techniques
K:10	Steven Mackinson, Steven Freeman, Roger Flat,t and Bill Meadows	Improved acoustic surveys by combining fisheries and ground discrimination acoustics
K:11	Withdrawn	
K:12	Thomas T. Noji, Brian J. Todd, Richard A. Pickrill, Page C. Valentine, and Susan Snow-Cotter	Mapping the Gulf of Maine: building the link between marine geology and benthic habitats to improve ocean management
K:13	Withdrawn	

## THEME SESSION ON THE CENSUS OF MARINE LIFE: TURNING CONCEPT INTO REALITY (L)

L:01	Teresa Radziejewska and Ryszard Kotliński	Acquiring marine life data while experimentally assessing environmental impact of simulated mining in the deep sea
L:02	Kenneth Awebro, Maibritt Bager, Poul Holm, Julia Lajus, Brian MacKenzie, and Henn Ojaveer	Baltic Sea fisheries in previous centuries: development of catch data series and preliminary interpretations of causes of fluctuations
L:03	K.K. N'Singi, P. Barros, Moses Maurihungirire	Distribution patterns of large-eye dentex ( <i>Dentex macrophthalmus</i> block, 1791) and some biological aspects in the Angolan and Namibian waters
L:04	J.M. Portela, M.C. González M.C. and J.M. Bellido	Preliminary results of a Exploratory Fishing targeting deepwater species off Uruguay
L:05	J.M. Portela, J.M.Bellido, X.A. Cardoso, J. Wang, E. Ulloa, M.G. Otero, and V. Tato	Analysis of the evolution of hake (Merluccius hubbsi and Merluccius australis) catch and effort by Spanish vessels operating in the Patagonian shelf area since the beginning of this industrial fishery
L:06	Withdrawn	
L:07 Poster	Adriana Alves and J.H. Delgado	First description of a new local fishery of pink dentex, <i>Dentex</i> ( <i>Cheimerius</i> ) gibbosus (Rafinesque, 1810) (Pisces:Sparidae) off Madeira Island
L:08	Pablo Durán Muñoz and Esther Román	Database of the Spanish Observers Program in North Atlantic international waters: Exploring how this existing information could be used to investigate the composition and distribution patterns and the biology of the deep-water species
L:09	H. Rees, S. Cochrane, S. Degraer, G. Duineveld, H. Hillewaert, I. Kröncke, E. Rachor, M. Robertson, J. Craeymeersch, M. de Kluijver, and E. Vanden Berghe	The North Sea Benthos Project: planning, management and objectives
L:10	Odd Aksel Bergstad and Tone Falkenhaug	The CoML Pilot Project MAR-ECO: Goals, Status, and significance for ICES

L:11	Julio Portela, A. Arkhipkin, S. Hill, E. Ulloa, B. Santos, V. Tato, J.M. Bellido, D. Middleton, D. Agnew, and J. Wang	Overview of the Spanish fisheries in the Patagonian Shelf
L:12	Rainer Froese and Kathleen Kesner-Reyes	Impact of fishing on the abundance of marine species
L:13	Sukgeun Jung and Edward D. Houde	Evaluating temporal and spatial variability in biomass, species assemblage and diversity of fishes in a Chesapeake Bay, USA, Census of Marine Life
L:14	Heino O. Fock, S. Ehrich, and C. Pusch	Structure and diversity patterns of deep-sea pelagic fish assemblages in relation to the Mid-Atlantic Ridge (45°N to 50°N)
L:15	Rainer Froese and Phoebe Y. Zhang	The Ocean Biogeographic Information System
L:16	Hildrun Müller	The distribution of "Belt Sea cod" and "Baltic cod" in the Baltic Sea from 1995 to 2001 estimated by discriminant analysis of the number of dorsal fin rays
L:17	Maria Fossheim and E.M. Nilssen	Identification of the fish communities in the Barents Sea: Is there a faunal discontinuity across the Polar front?
L:18	Verena M. Trenkel, Nicolas Bailly, Olivier Brosseau, Romain Causse, Marine Girard, John D.M.Gordon, Daniel Latrouite, David Le Piver, Pascal Lorance, Stéphanie Mahévas, Benoit Mesnil, Jean- Charles Poulard, Marie- Joëlle Rochet, Franz Uiblein, Jean-Philippe Vacherot, Gérard Veron, and Helmut Zibrowius	First results of a quantitative study of deep-sea fish on the continental slope of the Bay of Biscay: visual observations and trawling
L:19	Emmanuel Chassot and Didier Gascuel.	Typology and characterization of European "Fisheries Ecosystem Units"
L:20	Ron O'Dor and Kristen Yarincik	The Census of Marine Life: Linking the Oceans' Past, Present and Future
L:21	Laurans Martial, Aboubacar Sidibe, and Didier Gascuel	Ecosystem effects of a quickly developed fishery: trends in biomass of demersal resources of Senegal and Guinea
L:22	Maurice Clarke, Pablo Duran, Pascal Lorance, Odd Aksel Bergstad, John Gordon, Franz Uiblein, and Vladimir Vinnichenko	Life history strategies of demersal fishes on the Northern Mid-Atlantic Ridge
L:23	Michael Roman, X. Zhang, and C. McGilliard	Census of Marine Life (CoML) in Chesapeake Bay, U.S.: Annual variability in the spatial patterns of plankton abundance
L:24	Udeme I. Enin and Joachim Gröger	Fish community size structure in the Mecklenburg Bight and Arkona Basin in the Baltic Sea, in the decade 1991 to 2000

L:25	W. Jeffrey Bolster, Andrew A. Rosenberg, William B. Leavenworth, and Karen Alexander	Using historic logbooks to determine cod abundance and distribution in the Gulf of Maine, Gulf of Saint Lawrence, Labrador Coast and Scotian Shelf, 1852–1866
L:26	Mehmet Cengiz Deval, T. Bök, T. Z .Alicl,i and I.K.Oray	The effect of salinity changes from the western Black Sea to the northern Aegean Sea on the eggs and larvae of the European Ancovy <i>Engraulis.encrosicholus</i> L.1758
L:27	Mehmet Cengiz Deval, C. Ates, T.Bök and I.K.Oray	Investigations of the distribution of the eggs and larvae of the Sprata Sprattus sprattus Linnaeus 1758, in the Sea of Marmara
L:28	Mikko Heino and Olav Rune Godø	Blue whiting – a key species in the mid-water ecosystems of the north-eastern Atlantic
L:29	Withdrawn	
L:30	Tim D. Smith, Randall Reeves, Nancy Friday, and Andre Punt	Reconstructing humpback whale populations in the North Atlantic
L:31	Filipe M. Porteiro, Ricardo S. Santos, and Richard D. M. Nash	How many dragonfishes are there?
L:32 Poster	Jo Høyer, Elinor Bartle, and Morten Steffensen	Beyond the Scientists: the importance of engaging the public, a Public Outreach model
L:33 Poster	HCh. John, J.M. Rodriguez, and D. Schnack	Canary Islands fish larvae: How large the sample, how deep the tow, how many are there really?
L:34 Poster	Iñaki Quincoces, M. Santurtún, and P. Lucio	Reproductive maturity studies on black anglerfish (L. budegassa) from the Bay of Biscay
L:35 Poster	V.N. Shibanov, B.I.Vinnichenko, and A.P.Pedchenko	Russian investigations and fishing in the northern part of Mid-Atlantic Ridge
L:36 Poster	Paulino Lucio, M. Santurtún, I. Quincoces, and H. Murua	Evolution of the sexual maturity parameters of Northern Hake between 1987 and 2001
L:37 Poster	Juan C. Arronte, J.Landa, P. Abaunza, and C. Fariña.	Calliobdella lophii (Hirudinea, Piscicolidae) parasitizing on anglerfish (Lophius sp.) in the Bay of Biscay. A preliminary study
L:38 Poster	Simeon Hill, avid Middleton, Julio Portella, Graham Pierce, and Jose R. Fuertes	Assessment of the Falkland Islands population of Argentine hake <i>Merluccius hubbsi</i>

## THEME SESSION ON THE OCEANOGRAPHY AND ECOLOGY OF SEAMOUNTS – INDICATIONS OF UNIQUE ECOSYSTEMS (M)

M:01	Manfred Kaufmann, Klaus von Bröckel, Christian Mohn, and Aike Beckmann	The influence of the Great Meteor Seamount on the distribution of phytoplankton
M:02	Withdrawn	
M:03	A.G. Arkhipov, D. A. Kozlov, and E. V. Cherkashin	Structure of waters and distribution of fishes at different ontogenetic stages around seamounts of the Central-Eastern Atlantic Ocean

M:04	Alan Butler, C. Bulman, Xi He, T. Koslow, A. Williams, and S. Condie	Tasmanian seamounts: diversity, biogeography, and benthopelagic connections
M:05	E.I. Kukuev	Ichthyofauna research on underwater mountains within the North-Atlantic Ridge and adjacent areas
M:06	Elena L. Markhaseva and S. Schiel	Rare benthopelagic calanoid copepods from the Great Meteor Seamount (Northern Atlantic)
M:07	Birte Matthiessen,	Seamounts, hotspots for high speciation rates in bentho-pelagic fishes? A case study on <i>Macroramphosus spp</i> . (Syngnathidae) on Great Meteor Seamount
M:08	Telmo Morato and Tony Pitcher	Challenges and problems in modelling seamount ecosystems and their fisheries
M:09	Th. Sigurðsson, G. Jónsson, G., and J. Pálsson	Deep scattering layer over Reykjanes Ridge and in the Irminger Sea
M:10	Christian Pusch, H. Fock, F. Porteiro, and H. von Westernhagen	Interaction of mesopelagic fish and shallow topography in different latitudes of the NE Atlantic
M:11	A.A. Rowden, S. O'Shea, D.G. McKnight, and M.R. Clark	Biodiversity of the macroinvertebrate assemblages of the Kermadec volcanic arc seamounts: evidence for the stepping-stone theory and the influence of geologic history
M:12	Walter Nellen and S. Ruseler	Composition of ichthyoplankton and horizontal and vertical distribution of fish larvae taxa in the Great Meteor Seamount area in September 1998
M:13	Dieter Piepenburg and B. Müller	Distribution of epibenthic communities on the Great Meteor Seamount (NE Atlantic) mirrors water-column processes
M:14	Paul Johnston and David Santillo	Conservation of Seamount Ecosystems: Application of an MPA Concept
M:15	Karen I. Stocks	Using SeamountsOnline, a biogeographic information system for seamounts, to examine patterns in seamount endemism
M:16	Withdrawn	
M:17	Rabea Diekmann and Uwe Piatkowski	Species composition and distribution patterns of early life stages of cephalopods at Great Meteor Seamount (subtropical NE Atlantic)
M:18	Frank Hartmann	The impact of the Great Meteor Seamount (NE Atlantic) on the nutritional condition of ichthyoplankton organisms - a histological study
M:19 Poster	Petra Heinz, D. Ruepp, and Ch. Hemleben	Benthic foraminifera communities at seamount "Great Meteorbank"
M:20	Christian Mohn and Aike Beckmann	The Upper Ocean Circulation at Great Meteor Seamount Part I: Structure of Density and Flow Fields
M:21	Catriona Clemmesen and H. Röhrstedt	Does the Great Meteor Seamount affect growth and condition of fish larva with special reference to Vinciguerria nimbaria?
M:22	Kai Horst George and Horst Kurt Schminke	Harpacticoida ( <i>Crustacea, Copepoda</i> ) of the Great Meteor Seamount, with first conclusions as to the origin of the plateau fauna
M:23	Withdrawn	
M:24	Gunnar Gad and Horst Kurt Schminke	How important are seamounts for the dispersal of meiofauna?

M:25	J.A. Moore, M. Vecchione, B. B. Collette, and R. Gibbons	The fauna of Bear Seamount (New England Seamount chain), and the presence of "natural invader" species
M:26	Octavio Melo and G. Menezes	Exploratory fishing of the orange roughy (Hoplostethus atlanticus) in some seamounts of the Azores archipelago
M:27	Bettina Martin	Composition and vertical distribution of zooplankton at the Great Meteor Seamount, subtropical NE Atlantic
M:28.	Heike Zidowitz, Heino O. Fock, and Hein v. Westernhagen	The role of Zenopsis spp. as predator in seamount and shelf habitats
M:29	Withdrawn	
M:30	Nils Benke	The benthic community of the Great Meteor Bank
M:31	Bernd Christiansen	OASIS: a new EU project on the ecology of Atlantic seamounts
M:32 Poster	V.I. Vinnichenko	Prospects of fisheries on the seamounts
M:33 Poster	A. G. Arkhipov and N. I. Mylnikov	On the pelagic phase of the life cycle of the common angler ( <i>Lophius piscatorius</i> Linne) around seamounts of the Rockall-Hatton area
M:34 Poster	Lutz Fischer	The impact of the Great Meteor Seamount on the behaviour of zoo-and ichthyoplankton species and on the community structure. Stomach content analyses of dominant copepod species from the great Meteor Seamount in the Northeast Atlantic
M:35 Poster	S. Schnack-Schiel and Elke Mizdalski	Occurrence and distribution pattern of copepods in the vicinity of the Great Meteor Seamount, Northeast Atlantic, in September 1998
M:36 Poster	Heino O. Fock, Birte Matthiessen, Heike Zidowitz, and Hein v. Westernhagen	Resource partitioning of deep-sea fishes at the Great Meteor seamount (subtropical NE Atlantic): Niche overlap and support for the sound scattering layer-interception hypothesis
M:37	Aike Beckmann and Christian Mohn	The Upper Ocean Circulation at Great Meteor Seamount Part II: Retention Potential of the Seamount Induced Circulation
M:38	Withdrawn	
M:39 Poster	Jorge M.S. Gonçales, P. Andrade, J.A.Silva, and J. Bispo	Underwater survey of icthyofauna from Eastern Atlantic Seamounts: Gettysburg and Ormond (Gorringe Bank)
M:40 Poster	Gunnar Gad	Biodiversity of Loricifera from the plateau of the Great Meteor Seamount
M:41 Poster	Gunnar Gad	Espilo- and Draconematidae (Nematoda) from the plateau of the Great Meteor Seamount
M:42 Poster	Luís Barceloss, O. Melo, F. Porteiro, and G. Meneze	Feeding ecology of Orange Roughy in the Azores Archipelago

## THEME SESSION ON THE ENVIRONMENTAL INFLUENCES ON TROPHIC INTERACTIONS $(\mbox{\scriptsize N})$

N:01	B.E. Scott, J. Sharples, O. Ross, S. Wanless, F. Daunt, S. Greenstreet, and H. Fraser	The use of bio-phyiscal indices to link changes in the availablity of fish to predators
N:02	María de las Nieves Martínez Murillo, and Richard L. Haedrich	Long-term response of a fish community to environmental variability
N:03	H. Kousa and R. Tamsalu	Multi-triplet prey and predator plankton community model
N:04	E.W. North, R. R. Hood, S. Y. Chao, and L. P. Sanford	Retention of fish early-life stages and copepod prey in an estuarine nursery area: the influence of environmental variability
N:05	V.N. Feldman, N.N. Zhigalova, and F.A. Patokina	Dynamics of zooplankton structure, sprat and herring feeding and trophic interaction in conditions of water warming in South-Eastern Baltic Sea
N:06	Withdrawn	
N:07	Stein Hjalti í Jákupsstovu	The pelagic fish stocks, pilot whales and squid in Faroese waters – migration pattern, availability to fisheries and possible links to oceanographic events
N:08	Eilif Gaard and Karina Nattestad	Feeding, reproduction and seasonal development of <i>Calanus finmarchicus</i> in relation to water masses and phytoplankton in the southern Norwegian Sea
N:09	Elvar Hallfredsson and Torstein Pedersen	Predation on capelin larvae (Mallotus villosus) and prey preferences of potential fish predators in the Barents Sea
N:10	George L. Hunt, Lucy Vlietstra, and Ken Coyle	Feathered Oceanographers: Foraging where physics sets the table
N:11	G.K. Davoren, W.A. Montevecchi, and John Andersen	Hot spots of predators and prey on multiple spatial and temporal scales in the marine ecosystem of the Northwest Atlantic
N:12	Patricia Kremer	Towards an understanding of salp swarm dynamics
N:13	A.J. Bishop, M.B. Santos, S. Desormonts, G.J Pierce, and J.M Portela	The trophic relationships of several commercial finfish species from the southwest Atlantic
N:14	Yvan Simard, D. Lavoie, and F. J. Saucier	From plankton to whales: oceanography of a traditional whale feeding ground and marine park in the St. Lawrence estuary
N:15	F. Daunt, S. Wanless, L. Wilson, G. Peters, D. Grémilllet, B. Scott, J. Sharples, O. Ross, S. Greenstreet, and H. Fraser	Effects of tidal currents on seabird foraging behaviour and diet in the North Sea
N:16	M. Starr, M. Harvey, P. S. Galbraith, D. Gilbert, D. Chabot and JC. Therriault	Recent intrusion of Labrador Shelf waters into the Gulf of St. Lawrence and its influence on the plankton community and higher trophic levels
N:17	Sónia Mendes, P. Thompson, W. Turrell, and T. Lütkebohle	The influence of the tidal cycle and a tidal intrusion front on the spatio-temporal distribution of the bottlenose dolphin, Tursiops truncatus, in a narrow estuarine channel, Scotland

N:18 Poster	Else Nøst Hegseth and Jan Backhaus	Winter distribution of microzooplankton in the Nordic Seas
N:19 Poster	Piotr Margoñski	Changes in spatial and temporal mesoscale distribution of zooplankton organisms in the context of trophic interactions with fish larvae and juveniles
N:20 Poster	Leif Nøttestad and Rune Vabø	Advanced hunting for herring: Killer whales and saithe trap herring by taking advantage of steep bottom topography
N:21 Poster	Stefan Neuenfeldt and Hans-Harald Hinrichsen	Possibilities for geo-location of predators in the Baltic Sea combining archival tags and hydrodynamic modeling
N:22 Poster	Høgni H. Debes	Abundance, stage composition and vertical distribution of krill in the Faroe-Shetland Channel in relation to season and hydrography

## THEME SESSION ON THE PELAGIC FISH RESPONSES TO CLIMATE VARIABILITY – CONSEQUENCES FOR FISHERIES AND ECOSYSTEM ADVICE (O)

O:01	Marceliano Segura Zamudio	Influence of oceanographic conditions in the distribution and behaviour of the anchovy ( <i>Engraulis ringens J.</i> ) from acoustic estmations between 1998 – 2002 and studies of fishing effort by ARGOS (1999 – 2002)
O:02	Joseph Sebastian Paimpillil	Variability of Finfish and Shrimp Catches and Patterns of Physico- Chemical Parametrs in N.W.Arabian Gulf.
O:03	Pierre Petitgas, J. Massé, P. Beillois, B. Planque, P. Bourriau, P. Lazure, and M. Santos	Estimating in situ fish fecundity on various spawning grounds by coupling acoustics and CUFES during fisheries surveys: exploration of the methods potential on anchovy and sardine in Biscay
O:04	Pierre Petitgas, J.P. Bergeron, A. Herbland, D. Delmas, N. Koueta, J.M. Froidefond, J. Massé,P. Beillois, P. Bourriau, and M. Santos	Functional pelagic entities in Biscay and their relation with anchovy and sardine fish distribution, their condition and spawning
O:05	Nkosi Luyeye	Seasonal changes and spatio-temporal distribution of <i>Sardinella</i> spp in Angolan waters
O:06	Enrique Portilla, B. Planque, P. Petitgas, J. Massé, P. Beillois, P.Bourriau, and M. Santos	Spatial association between spawning sardine and anchovy and their eggs in the bay of Biscay as observed by coupled acoustic and CUFES surveys
O:07	Sandrine Vaz and P. Petitgas	Study of anchovy population dynamics using spatialised age- specific matrix models
O:08	A. Nissling, HH. Hinrichsen, A. Müller, L. Andersson and F. Köster, and A. Makarchouk	Vertical distribution and egg survival of Baltic sprat in relation to temperature and oxygen conditions – implications for stock development
O:09	A.S. Malkov	Movement of the Earth pole and population dynamics of Norwegian spring-spawning herring ( <i>Clupea harengus</i> ) and arctic cod ( <i>Gadus morhua</i> )
O:10	E. Karasiova	Influence of interannual variability of hydrographic parameters spatial distribution in thermocline and halocline on sprat larvae distribution and subsequent juveniles abundance in the Southeastern Baltic Sea

O:11	E.M. Karasiova, E.A. Gribov, and V.M. Andreeva	Fish larvae assemblages in the coastal shallow zone of the South-Eastern Baltic Sea: environmental factors driving interannual variability
O:12	Natalja Kondratjeva and Viesturs Berzinsh	Baltic herring larvae in the Gulf of Riga – dynamics in the final quarter of the XXth century
O:13	Andrei Makarchouk	Changes in the survival of sprat eggs in the Eastern Baltic
O:14	Gwenhael Allain, P. Petitgas, P. Grellier, and P. Lazure	Comparative otolith growth and drift of larval and juvenile anchovy in Biscay and implications for survival
O:15	Jan Arge Jacobsen, Stein Hjalti í Jákupsstovu, and Marita Poulsen	Does the seasonal variation in fat content of blue whiting affect the acoustic conversion factor (TS)?
O:16	Omar Ettahir1, Am. Berraho, G. Vidy, M. Ramdani, S. Zizah, and T. Dochi	Distribution of sardine, <i>Sardina pilchardus</i> (Walb.) eggs and larvae along the south Moroccan Atlantic coast (21-26 N)
O:17	Withdrawn	
O:18	K.T. Frank and K.F. Drinkwater	Links between the recent increase in pelagic fishes and environmental changes on the Scotian Shelf
O:19	Maria de Fatima Borges, Avijit Gangopadhay, Jorge Mesias, and Anne- Marie Brunner	Multiscale Impact of Climatic Regime Shifts on Georges Bank and Gulf of Maine Cod Populations
O:20	Johan Blindheim and Svend-Aage Malmberg	The mean sea level pressure (MSLP) gradient across the Denmark Strait as index for the oceanographic Conditions in North-Icelandic waters.
O:21	Wodzimierz Grygiel and M. Wyszyñski	Sexual maturation of southern Baltic herring and sprat (1980-2001)
O:22	Georgi M. Daskalov	Long-term changes in fish abundance and environmental indices in the Black Sea
O:23	Withdrawn	
O:24	B.A. Roel, P. Large, and C.M. O'Brien	Influence of the environment on the dynamics of an inshore spring spawning herring stock
O:25	A. Uriarte, B.A. Roel, A. Borja, G. Allain, and C.M. O'Brien	Role of environmental indices to estimate recruitment of the Bay of Biscay anchovy
O:26	Alicia Lavín, X. Moreno- Ventas, V. Ortiz de Zárate, P. Abaunza, and J. M.Cabanas	Environmental variability in the North Atlantic and Iberian waters and its influence on pelagic fish: the cases of albacore and horse mackerel
O:27 Poster	Sandrine Vaz, P. Petitgas, P. Beillois, and J. Massé	Variations in anchovy biometric parameters and spatial distribution in the bay of Biscay from 1983 to 2001
O:28 Poster	N. Mikkelsen and T. Pedersen	The stock-recruitment relationship of the Barents Sea capelin (Mallotus villosus) influences by temperature and predation
O:29 Poster	Andrzej Orlowski,	Environmental pressure on the autumn clupeoids distribution in the southern Baltic (acoustic studies)
O:30 Poster	P. Conde, J. Martin, P. Otero, J. Portela, and P.J. Torres	Fisheries study and monitoring of by-catches of small cetaceans in Galicia region

## THEME SESSION ON THE SHELF SEAS PROCESSES: THE FOUNDATION FOR ECOSYSTEM UNDERSTANDING (P)

		UNDERSTANDING (P)
P:01	Withdrawn	
P:02	Thomas Osborn, W.A.M. Nimmo Smith, L. Luznik, W. Zhu, and J. Katz	Turbulent stress measurements in the coastal ocean using Particle Image Velocimetry (PIV)
P:03	Anatoli N. Pantiulin	The new structural system of the White Sea as foundation for ecological analysis
P:04	Pierre Petitgas and P. Lazure	Typology of currents in Biscay for the period 1985-2000 as produced by a circulation model
P:05	Withdrawn	
P:06	Christiane Kuhrts and Wolfgang Fennel	Modelling sedimentary processes in the western Baltic
P:07	V. Zalesny, R. Tamsalu, P. Ennet, and H. Kuosa	The influence of the hydrodynamic processes on the marine ecosystem
P:08	Kai Myrberg, Oleg Andrejev, Jari. J. Haapala, and Harri Kuosa	Upwellings in the Gulf of Finland, a study based on verification of a three-dimensional model with measurements
P:09	Belmiro Castro, Luiz B. Miranda, Roberto F.C. Fontes, and Gleise N. Carneiro	Current measurements in the upwelling region off Cabo Frio (Southeast Brazil)
P:10	Karin Margretha H. Larsen, Bogi Hansen, Harald Svendsen, and Knud Simonsen	The front on the Faroe shelf
P:11	Uffe Høgsbro Thygesen	Lagrangian stochastic modeling of dispersal: Beyond the biased random walk
P:12	Thomas Neumann and Christine Kremp	Nutrients load reduction experiments with a three dimensional Baltic Sea ecosystem model
P:13	Guoqi Han and John W. Loder	Modelling seasonal-mean circulation on the southern Newfoundland and eastern Scotian Shelves
P:14	Withdrawn	
P:15	R.G. Lough, C. G. Hannah, P. Berrien, D. Brickman, J. W. Loder, and J. A. Quinlan	Spawning pattern variability and its effect on retention, larval growth, and recruitment in Georges Bank cod and haddock
P:16	J. A. Quinlan, R. G. Lough, , D. Brickman, S. Oakey, C. G. Hannah, and P.Berrien	A modeling exploration of the population dynamics of Georges Bank haddock
P:17	Wlodzimierz Krzyminski, Elzbieta Lysiak- Pastuszak, Natalia Drgas, Grazyna Sapota, Jerzy Woron, Beata Danowska, and Tamara Zalewska	Activities of the Institute of Meteorology and water management related to the protection of the Baltic Sea

P:18

D.L. O'Brien, R.G.Lough,
J.M.Fives, J.Manning,
J.A.Quinlan, and
L.Dransfeld

P:19

Quilanda Fidel

SST and Angolan littoral rainfall variability

## THEME SESSION ON THE OCEAN-SHELF SEA INTERACTIONS: IMPLICATIONS FOR BIOLOGY AND FISHERIES (Q)

Q:01	Alexander I. Arkhipin, Alexander M. Sirota, Vladimir V. Laptikhovsky,Ryszard Grzebielec, and David A.J. Middleton	The effect of Falkland Current inflows on offshore ontogenetic migrations of the squid <i>Loligo gahi</i> on the southern shelf of the Falkland Islands
Q:02	Harald Yndestad	The Code of long-term Fluctuations of Norwegian spring- spawning herring
Q:03	Peeter Ennet, V. Zalesny, R. Tamsalu, and H. Kuosa	Impact of open boundaries on coastal marine ecosystem.
Q:04	Jon K.T. Brodziak and David G. Mountain	Some Biological Responses of Fish Stocks to Increased Shelf Water Volume in the Mid-Atlantic Bight of the Northeast USA Continental Shelf Ecosystem
Q:05	Jianjun Wang, G.J Pierce, J.M. Portela, J. M. Bellido, X.A Cardoso	The spatio-temporal pattern of hake ( <i>Merluccius hubbsi</i> ) abundance and environmental influence in the Patagonian shelf area
Q:06	Ad Corten	Ecological indications for long-term variations of Atlantic influence in the northwestern North Sea
Q:07	Leonie Robinson and C.L.J. Frid	Extrinsic control of shelf sea ecosystems: Multi-decadal dynamics in the North Sea - implications for management
Q:08	Philiip C. Reid, M. Edwards, G. Beaugrand, and M.Skogen	Evidence for effects on the North Sea ecosystem due to varying oceanic inflow over the last 100 years
Q:09	HCh. John, V. Mohrholz, J.R.E. Lutjeharms, S. Weeks, R. Cloete, and A. Kreiner	Intrusion of Angolan water into the northern Benguela and anomalous cross-slope distributions of fish larvae

## THEME SESSION ON THE IMMUNO-MODULATORS AND PROBIOTICS: ALTERNATIVES TO CHEMOTHERAPEUTICS? (R)

R:01	Withdrawn	
R:02	Tim Bowden	Immunomodulation. Does it have a practical application to larval fish?
R:03	Lone Gram and Mette Hjelm	The selection and potential use of aquatic bacteria as fish probiotics
R:04	Sami Nikoskelainen, Arthur Ouwehand, Göran Bylund, Seppo Salminen, and Esa-Matti Lilius	Benefits of a human divided probiotics for the rainbow trout (Oncorhynchus mykiss) health
R:05	Einar Ringø	Lactic acid bacteria in fish

R:06	Jorunn Skjermo, Anne Mari Rokstad, Ingrid Salvesen, Gudmund Skjåk-Bræk, and Olav Vadstein	Immunostimulation in marine larval rearing
R:07	Øivind Bergh and Øystein Evensen	Uptake and processing of bacteria in Artemia franciscana and halibut, <i>Hippoglossus hippoglossus</i> larvae visualized by immunohistochemistry
R:08	Pavlos Makridis	Use of probiotic bacteria in the rearing of larvae of Senegalese sole (Solea senegalensis)
R:09	Roy A. Dalmo	Immunostimulation of fish
R:10 Poster	P.J.W. Díaz-Rosales, A. Burmeister, S. Arijo, M. Chabrillón, F. L. Figueroa, J. Aguilera, and M.C. Balebona	Screening of algae extracts as potential stimulants of chemotaxis and respiratory burst activity of macrophages from sole (Solea senegalensis)
R:11	H. Birkbeck	

## THEME SESSION ON THE JUVENILE FISH CULTIVATION: IMPROVEMENTS IN QUALITY (S)

S:01	P.J.W. Olive, M.D. Islam, and S.Craig	A novel system for the production of essential PUFA for fish hatcheries using cultured polychaetes
S:02	Michael J. Millard, Jerre Mohler, and David Perkins	The use of calcein as a fry mark for evaluating restoration and culture programs of Atlantic salmon
S:03	David A. Bengtson,, Robin S. Katersky, Markus Koelbl, and Tessa L. Simlic	Energetic explanations for differential growth rates in summer flounder ( <i>Paralichthys dentatus</i> ) larvae and juveniles
S:04	Myron A. Peck,, Larry J. Buckley, and David A. Bengtson	Inter-individual differences in rates of routine energy loss and and growth in early juvenile Atlantic cod ( <i>Gadus morhua</i> )
S:05	Ed Trippel and Steven R.E. Neil	Juvenile growth and locomotory activity of haddock (Melanogrammus aeglefinus) in relation to photoperiod and light intensity
S:06	U. Waller, A. Schiller, J. Orellana, and M. Sander	The growth of young seabass ( <i>Dicentrarchus labrax</i> ) in a new type of re-circulation system

## THEME SESSION ON THE SALMON AQUACULTURE, ENHANCEMENT, AND RANCHING: ARE THEY A THREAT TO WILD SALMONID STOCK (T)

T:01	Karin Boxaspen	Infection success of salmon lice related to temperature and implications for regional size of salmon production areas
T:02	Michael M. Hansen	Long-term effects of gene flow from domesticated fish into wild populations, assessed using microsatellite DNA analysis of historical and contemporary samples: A study using brown trout as a model species
T:03	Withdrawn	

T:04	A. Ferguson, P. McGinnity with N. Baker, D. Cotter, R. Hynes, B. O'Hea, N. O'Maoiléidigh, P. Prodöhl, and G.Rogan	A two-generation experiment comparing the fitness and life history traits of native, ranched, non-native, farmed, and 'hybrid' Atlantic salmon under natural conditions
T:05	Ger Rogan, K. Whelan, D. Cotter, and R. Poole	Ranching of Atlantic salmon (Salmo salar L.) to the rod from a native and non-native system
T:06	Margaret A. McKibben, and D.W. Hay	Planktonic distribution of sea lice <i>Lepeophtheirus salmonis</i> larvae in inter-tidal plankton samples in Loch Shieldaig, Western Scotland in relation to local salmon farm production cycles
T:07	Krisna Rungruangsak- Torrissen	Wild salmon should not be threatened by healthy and non- genetically manipulated escapees
T:08	Ove T. Skilbrei	Distribution of escaped farmed salmon and rainbow trout in the sea and possible effects of salmon lice on wild stocks
T:09	Michael J. Penston, Margaret A. McKibben, David W. Hay, and Phillip A.Gillibrand	Larval sea lice. Distribution in Loch Shieldaig, Western Scotland
T:10	N. Ó Maoiléidigh,, Anne Cullen, and T. McDermott.	Review of information on fish farm escapees in Ireland
T:11	Árni Ísaksson and Sumarliði Óskarsson	Icelandic salmon ranching; problems and policy issues -A historical perspective-
T:12	Øystein Skaala, Geir Dahle, Kevin Glover, and Vidar Wennevik	A northern subgroup of Atlantic salmon in Norway?
T:13 Poster	A. Ayllon, F. Juanes, S. Gephard, J.L. Martinez, and E. Garcia-Vazquez	Changes on genetic diversity following enhancement of wild populations at the southern limit of Atlantic salmon distribution
T:14	Pauli Snoeijs, Ingrid Wänstrand, and Lies Van Nieuwerburgh	Effects of phytoplankton community composition on thiamine availability for the Baltic salmon
THEME S		EVELOPMENTS AND APPLICATIONS OF GENETICS IN NAGEMENT AND AQUACULTURE (U)
U:01	Michael M. Hansen, Daniel E. Ruzzante, Einar	Microsatellite DNA analysis of historical and contemporary samples provides new insights into the long-term genetic

U:01	Michael M. Hansen, Daniel E. Ruzzante, Einar E. Nielsen, Dorte Bekkevold, and Karen- Lise D. Mensberg	Microsatellite DNA analysis of historical and contemporary samples provides new insights into the long-term genetic structure of brown trout populations
U:02	E. Garcia-Vazquez, J. Perez, P. Alvarez, C. Rico, C. Fox,P. Lopes, A. Teia, N. Karaiskou, and C. Triantaphyllidis	Genetic identification of fish by species-specific DNA markers for use in stock biomass assessments and detection of commercial fraud
U:03 Poster	J.A. Sánchez, Y. Borrel, E. Vázquez, and G. Blanco	Improving aquaculture stocks: genetic markers in pedigree analysis

U:04 Poster	M.E. Cagigas, G.Blanco, E. Vázquez, and J.A. Sánchez	A vision of populational structure of two principal species of anglerfish
U:05	Einar E. Nielsen, Michael M. Hansen, Daniel E. Ruzzante, Dorte Meldrup, and Peter Grønkjær	A hybrid-zone in Atlantic cod ( <i>Gadus morhua</i> ) in the Baltic and the Danish Belt Sea revealed by individual admixture analysis
U:06	Sabina De Innocentiis, E. Miggiano, A. Ungaro, A. Lesti, A.C. Andreoli, S. Livi, L. Sola, and D. Crosetti	Use of microsatellites to infer geographical origin of individual breeders from an Italian commercial hatchery
U:07	G.G. Novikov, A.A. Kolesnicov, T.V. Malinina, A.V. Zubchenko, K.L Afanasiev, A.N. Stroganov, B.A. Kalabushkin, and G.A. Rubtsova	Research of DNA polymorphism of Atlantic salmon (Salmo salar L.) populations of the Barents and White sea basin rivers
U:08	T. Sarvas and S.E. Fevolden	Horizontal and seasonal variation in scnDNA allele frequencies and maturity of Atlantic cod ( <i>Gadus morhua</i> ) in Ullsfjorden, North Norway
U:09	P. Boudry, S. Launey, E. Diaz Almela, Y. Naciri- Graven, C. Ledu, S. Mira, N. Taris, F. Bonhomme, and S. Lapègue	Population genetics of the European flat oyster (Ostrea edulis): from larvae to populations
U:10	Withdrawn	
U:11	Sheila Stiles and J. Choromanski	Trends in genetics of bivalve mollusks: A review
U:12	Thomas T. Chen	Increase of fish innate immune response by transgenesis
U:13	Shahid Mahboob Rana	Molecular markers in the Crassostrea's gametogenic cycle
U:14 Poster	A. Triantafyllidis, J. Perez, N. Karaiskou, J-L Martinez, C. Triantaphyllidis, and E. Garcia-Vazquez	Genetic identification of three species of the genus Trachurus based on sequencing of the D-loop mitochondrial DNA region
U:15 Poster	G. Blanco, J. Alvarez, E. Vázquez, and J.A. Sánchez	Developing genetics tools for monitoring a new cultivated specie, Pagellus bogarabeo
U:16 Poster	Jens Carlsson, J. E. L. Carlsson, K. H. Olsén, M. M. Hansen, T. Eriksson, and J. Nilsson.	Effects of relatedness on micro-geographical distribution in brown trout populations
U:17	Kristina M. Miller, Terry D. Beacham, and Ruth E. Withler	Use of neutral and adaptive genetic variation in the management and conservation of Pacific salmon

### THEME SESSION ON THE UNACCOUNTED MORTALITY IN FISHERIES (V)

V:01	J.M. Bellido, J.M. Portela, J. Wang, G.J. and Pierce	Trends in the pattern of discarding in the hake (Merluccius hubbsi and Merluccius australis) fishery in the SW Atlantic
V:02	D.A. Vasilyev and S.V. Belikov	Blue whiting: what about natural mortality?
V:03	Verena M. Trenkel and Marie-Joëlle Rochet	Towards a theory for discarding behaviour
V:04	R.R. Harris and M. Ulmestrand	Discarding Norway lobster ( <i>Nephrops norvegicus</i> ) through low salinity layers - mortality and damage seen in simulation experiments
V:05	T.E. Helser, R.D. Methot, and J. Hastie	A statistical model of discarding in the U.S. West Coast groundfish fishery
V:06	Tom Catchpole, Tim Gray, and Chris Frid	Factors Influencing Discarding Patterns, a Case Study of the English Northeast coast <i>Nephrops norvegicus</i> Fishery
V:07	Withdrawn	
V:08	Altan Lok, C. Metin, H. Ozbilgin, A. Tokac, A. Ulas, G. Metin., F. O. Duzbastýlar, H. Kaykac,	Survival ratios of red mullet (Mullus barbatus) and annular sea bream (Diplodus annularis) after escaping from trawl codend in the Eastern Aegean Sea
	C. Aydýn, and Z. Tosunoglu	
V:09	Leili Järv	Non-professional fishery as one of the sources of unaccounted fishing mortality: a case of perch fishery in Estonian coastal sea
V:10	K.R. Patterson	Exploring and quantifying structural uncertainty in age- structured fish stock assessment: an approach based on a "kernel" survivors analysis.
V:11	G.A. Chouinard, M.O. Hammill, and D.P. Swain	Unaccounted mortality in fisheries: correspondence between changes in grey seal population abundance and variation in natural mortality of southern Gulf of St. Lawrence cod
V:12	Withdrawn	
V:13	Withdrawn	
V:14	Laura Lema, Nélida Pérez, Rafael Duarte, and Paulino Lucio	Some sources of variation in the assessment when introducing unaccounted mortality due to discarding practices. The case of Southern four-spot megrim stock
V:15	Ellen Pikitch, Daniel Erickson, Petri Suuronen, Esa Lehtonen, Craig Rose, and Chris Bublitz	Selectivity and mortality of walleye pollock escaping from the codend and intermediate (= extension) section of a pelagic trawl
V:16	Withdrawn	
V:17	Stéphanie Mahevas, and Verena Trenkel	Using mixed models to describe the spatio-temporal allocation of effort of the french fleet fishing in the Celtic Sea in order to parametrize a spatial model of fishing motality
V:18	Stéphanie Mahevas, Yann Sandon, and Alain Biseau	Improvement of the relationship between effort and fishing mortality: quantification and characterisation of Fishing Power variations; example from the bottom-trawlers of South-Brittany targeting monkfish from 1983 to 1998
V:19	Svend-Aage Malmberg and Steingrímur Jónsson	Climatic/human impact on hydro-biological conditions in Icelandic waters

V:20	Ingolf Røttingen, Aril Slotte, Per Sandberg, and Bjarne Schultz	Potential sources of unaccounted mortality in the fishery for Norwegian spring spawning herring
V:21	Withdrawn	
V:22	Tiit Raid	Stock complexity of herring: another potential source of uncertainties in fishing mortality estimates
V:23	Petri Suuronen, Esa Lehtonen, and Mika Kurkilahti	Assessment of mortality and skin injury of Baltic cod ( <i>Gadus morhua</i> ) that escape from trawl codend under commercial fishing conditions
V:24	V. Tschernij and P-O. Larsson	An estimation of the cod ( <i>Gadus morhua</i> ) catch in bottom gillnets lost along the southern coast of Sweden
V:25	Mike Breen, Graham Sangster, Barry O'Neill, Rob Kynoch, Emma Jones, and Aud Soldal	Evidence of sampling induced biases in mortality estimates from experiments investigating mortality in fish escaping from towed fishing gears
V:26	Withdrawn	
V:27	Mike Breen and Robin Cook	Inclusion of escape and discard mortality estimates in stock assessment models and its likely impact on fisheries management – a sensitivity analysis.
V:28	G.G. Thorarinsdóttir, S.A. Ragnarsson, and K. Gunnarsson	The impact of hydraulic dredging on ocean quahog populations
V:29	W J Lart	Discard studies, engaging fishers in support of management
V:30	P.H. McMullen	Fantared 2, a study to identify, quantify and ameliorate the impacts of static gear lost at sea
V:31	I. Huse and A.V. Soldal	Mortality and injuries of haddock that are caught by pelagic longline
V:32	Olafur Ingolfsson, A.V. Soldal, and I. Huse	Mortality and injuries of haddock, cod and saithe escaping through codend meshes and sorting grids
V:33 Poster	Tom Catchpole, Chris Frid, and Tim Gray	Estimating discard quantities for the English Northeast coast Nephrops norvegicus fishery
V:34 Poster	Karim Erzini, L. Bentes, P.G. Lino, J. Ribeiro, R. Coelho, P. Monteiro, C. Correia, and J.M.S. Gonçalves	"Ghost-fishing" of octopus and fish traps from the south coast of Portugal
V:35	B. Draganik and Maksym	Pikeperch stock behaviour under the preasure of different
Poster	Keida	fishing patterns in the Vistula Lagoon
V:36	Withdrawn	

## THEME SESSION ON FISHERY AND ENVIRONMENTAL MANAGEMENT – IS THERE A ROLE FOR OPERATIONAL OCEANOGRAPHY? (W)

W:01	Roald Sætre and Johan Blindheim	Jens Eggvin – A Norwegian pioneer in operational oceanography
W:02	Kenneth Sherman and, A. Duda	Large Marine Ecosystem monitoring, assessment, and management across the global North-South divide
W:03	Bruce Hackett, Johnny A. Johannessen, and Einar Svendsen	Monitoring the Norwegian Coastal Zone Environment (MONCOZE)

W:04	G.G. Novikov and A.N.Pantiulin	Interdisciplinary approach to monitoring of fish population and environmental changes in the White Sea
W:05	C.L.J. Frid, M.F. Borges, N. Daan, T.S. Gray, J.L. Hatchard, L.Hill, A. Jarowski, K. Mikalsen, O.A.L. Paramor, G.J. Piet, S.A. Ragnarsson, C.L. Scott, W. Silvert and L. Taylor	Developing a Fisheries Ecosystem Plan for the North Sea
W:06	Carl O'Brien	Stock assessment and projection of abundance - from environmental parameters to biological processes
W:07	Ajit Kumar	Costal environment and fisheries management for sustainable development in West Bengal, India
W:08	Friedhelm Schroeder, Wilhelm Petersen, Michael Petschatnikov, and Franciscus Colijn	A new system for automatic measurement of biological-chemical parameters from ferry boats
W:09	WR. Turrell	The ICES/EuroGOOS North Sea Pilot Project (NORSEPP)
W:10	E.B. Colbourne, E. G. Dawe, and D. G. Parsons	The current status of operational oceanography and its integration in fishery resource stock assessments in the Newfoundland Region of Atlantic Canada
W:11	Glen Harrison, Brian Petrie, and Ken Frank	Ecosystem monitoring in the Northwest Atlantic: Canada's Atlantic Zonal Monitoring Program (AZMP)
W:12	Trevor Platt, César Fuentes-Yaco, and Kenneth T. Frank	Ecosystem variability and fisheries
W:13	Withdrawn	
W:14 Poster	Johanne Fischer	EDIOS – European Directory of the Initial Ocean-observing System
W:15 Poster	V. Borokov, V.Ozhigin, A.Karsakov, Yu.Lepesevich, and V.Shibanov	Use of oceanographic information in management of the Russian fisheries in the Barents and Norwegian Seas
W:16 Poster	C.L.J. Frid, M.F. Borges, N. Daan, T.S. Gray, J.L.Hatchard, L. Hill, A. Jarowski, K. Mikalsen, O.A.L. Paramor, G.J. Piet, S.A. Ragnarsson, C.L. Scott, W. Silvert and L. Taylor	Developing a Fisheries Ecosystem Plan for the North Sea: management preferences

## THEME SESSION ON BIOLOGICAL EFFECTS OF CONTAMINANTS IN MARINE PELAGIC ECOSYSTEMS (X)

X:01	Endre Aas, G. Jonsson, R. Sundt, S. Westerlund, and S. Sanni	PAH metabolites and metals in bile from cod caged in the North Sea serve as indicators of pollution
X:02	K. Hylland, G. Becker, J. Klungsøyr, T. Lang, A. McIntosh, B. Serigstad, J.E. Thain, K.V. Thomas, T.I.R. Utvik, D. Vethaak, W. Wosniok	An ICES workshop on biological effects in pelagic ecosystems (BECPELAG): overview of the programme
X:03	KE. Tollefsen, A. Ruus, M. Grung, A. Goksøyr, C. Dye, and K. Hylland	Biomarker directed monitoring of toxic compounds in pelagic ecosystems
X:04	A. Ruus and J. Klungsøyr	Bioccumulation of contaminants in pelagic organisms, caged blue mussels and cod
X:05	H.v. Westernhagen and V. Dethlefsen	Occurrence and malformations of pelagic fish eggs in the German Bight, southern North Sea, from 1984-2002. Temperature vs pollution effects
X:06	B. Serigstad, J.E. Thain, K. Hylland, G. Becker, J. Klungsøyr, T. Lang, A. McIntosh, K.V. Thomas, T.I.R. Utvik, D. Vethaak, and W. Wosniok	The use of <i>in situ</i> deployment of live organisms and passive samplers to monitor contaminants in pelagic ecosystems
X:07	Kevin Thomas,, Jan Balaam, Katrina Collins, Mark Hurst, William Reynolds, and John Thain	In vitro ecotoxicological assessment of pelagic ecosystems
X:08	Brett Lyons, Freya Goodsir, John Wedderburn, and Ian McFadzen	Potential for UV-light to alter the toxicity of environmental seawater samples to invertebrate bioassay organisms
X:09	John Thain, Yvonne Allen, William Reynolds, and Sonia Kirby	BECPELAG workshop: Measurement of scope for growth and neutral red retention in blue mussels
X:10	Alexander P. Scott, Ioanna Katsiadaki, and John Thain	Development of an ELISA for cod vitellogenin and application to assessment of estrogen exposure in caged cod from the BECPELAG workshop
X:11	Stephen Feist, John Bignell, Gary Jones, and Grant Stentiford	Measurement of histological changes in fish larvae, blue mussels and caged fish
X:12	Alistair McIntosh	The assessment of hepatic 7-Ethoxyresorufin O-deethylase (EROD) activity in herring ( <i>Clupea harengus</i> ) and saithe (Pollachius virens) from two areas of the North Sea
X:13	K. Hylland, G. Becker, J. Klungsøyr, T. Lang, A. McIntosh, B. Serigstad, J.E. Thain, K.V. Thomas, T.I.R. Utvik, D. Vethaak, and W. Wosniok	An ICES workshop on biological effects in pelagic ecosystems (BECPELAG): summary of results and recommendations

## THEME SESSION ON THE EFFECTS OF FISHING IN THE GENETIC COMPOSITION OF LIVINGS MARINE RESOURCES (Y)

Y:01	Keith Brander	Is a utilitarian approach to the management of fisheries-induced adaptive change adequate and acceptable?
Y:02	Marie-Joëlle Rochet and Stephan Munch	A model for the evolution of growth and age at maturity in North Sea cod
Y:03	S. Barot, M. Heino, L. O'Brien, and U. Dieckmann	Reaction norms for age and size at maturation: study of the long-term trend (1970–1998) for Georges Bank and Gulf of Maine cod stocks
Y:04	Rob Grift, Adriaan Rijnsdorp, Sebastien Barot, Mikko Heino, and Ulf Dieckmann	Trends in reaction norms for maturation in North Sea plaice
Y:05	V.L. Tretyak	The impact of long-term overfishing on the abundance dynamics of early- and late-maturing Northeast Arctic cod
Y:06	Bruno Ernande, Ulf Dieckmann, and Mikko Heino	Fisheries-induced changes in age and size at maturation and understanding the potential for selection-induced stock collapse
Y:07	David O. Conover and Stephan B. Munch	Darwinian fishery management: rapid evolution of somatic growth and yield in experimentally harvested marine fish populations
Y:08	Ulf Dieckmann, Mikko Heino, and Olav Rune Godø	A Quantitative Genetics Model for the Evolution of Maturation Reaction Norms in Age- and Size-Structured Populations
Y:09	Y.G. Izumov, Y.V. Gerasimov, and Oleg M. Lapshin	The effect of fishing on the walleye pollock phenotype composition
Y:10	Georg H. Engelhard and Mikko Heino	Maturation characteristics in Norwegian spring-spawning herring before, during, and after a major population collapse
Y:11	Richard Law	Selective fishing and phenotypic evolution: past, present and future
Y:12	Anna Gårdmark	Fisheries-induced long-term effects on genetic composition in mixed fisheries
Y:13	Ellen Kenchington and Mikko Heino	Maintenance of genetic diversity: challenges for management of marine resources
Y:14	Mikko Heino, Ulf Dieckmann, and Olav Rune Godø	Reaction norm analysis of fisheries-induced adaptive change and the case of the Northeast Arctic cod
Y:15	Thrond O. Haugen and Leif Asbjørn Vøllestad	Effects of variable and size-selective gill-net fishing on life-history evolution in grayling
Y:16	Edward A. Trippel and Jarle Mork	Long-Term Trends in Heritable Fish Life-History Traits: Utility of Correlation and Regression Analyses to Disentangle Environmental and Genetic Factors
Y:17	Withdrawn	
Y:18 Poster	G.G. Novikov, V.N Shibanov, A.N Stroganov, K.I. Afanasjev, and C.P Melnikov	Analysis of population and genetic characteristics of redfish of the Irminger Sea

Y:19 Poster	Dirk M. Mengedoth	Structural analysis of aggregations of juvenile whiting (Merlangius merlangus) in the southern North Sea by way of genetic fingerprints
Y:20 Poster	A.J. Bishop, M.B. Santos, G.J. Pierce, J.M. Bellido, M. Rasero, and J.M. Portela	Morphometric and meristic variation in Argentine hake (Merluccius hubbsi) and southern hake (Merluccius australis) from the southwest Atlantic