

Contributions to the 1996 ICES Annual Science Conference

	Page
Gen	General Assembly Reports and Papers of General Interest 14
Del	Delegates Meetings 15
Fi	Finance Committee 16
Pub	Publications Committee 16
A	Consultative Committee..... 17
B	Fish Capture Committee 18
C	Hydrography Committee..... 20
D	Statistics Committee..... 21
E	Marine Environmental Quality Committee 22
F	Mariculture Committee 24
G	Demersal Fish Committee..... 25
H	Pelagic Fish Committee 28
J	Baltic Fish Committee..... 30
K	Shellfish Committee..... 32
L	Biological Oceanography Committee..... 34
M	Anadromous and Catadromous Fish Committee..... 36
N	Marine Mammals Committee 37
Mini	Mini-Symposium on Ecosystem Effects of Fisheries 38
O	Theme Session on the North Atlantic Components of Global Programmes: Lessons to ICES- GLOBEC from WOCE/JGOFS..... 39
P	Theme Session on Management Faced with Multiple Objectives 40
Q	Theme Session on Reproductive Disturbances of Marine Species - Causes and Effects (Posters)..... 41
R	Theme Session on Results of Baseline Study of Contaminants in Baltic Sediments 42
S	Theme Session on the Shelf Edge Current and its Effects on Fish Stocks (including results from EC-SEFOS)..... 43
T	Theme Session on Anadromous and Catadromous Fish Restoration Programmes: A Time for Evaluation..... 46
C+J	Joint Session on Interaction between Physics and Fish in the Baltic..... 48

ACFM Advisory Committee on Fishery Management
Assessment Working Group Reports 49

ACME Advisory Committee on the Marine Environment
Environment-Related Working Group Reports..... 50

Assess/
Env Working Group Report Related to Joint Meeting ACFM/ACME..... 50

Requests for additional copies of documents when supplies run out

Authors have been requested to provide 200 copies of their papers (125 to be sent to Iceland and 75 to the ICES Secretariat). Copies of the various papers are made available in the Documents Room. Participants may help themselves to copies of scientific papers on a first-come-first-served basis. Should supplies of particular papers run out, those wishing to obtain copies should not contact the Secretariat but approach the senior author of the paper concerned (name and address given with Abstracts). It is hoped that authors will send copies to those requesting them once the Annual Science Conference is over.

GENERAL ASSEMBLY REPORTS AND PAPERS OF GENERAL INTEREST

- Gen:1 Observers' Reports from Cooperating Organisations
- Gen:2 ICES Activities in 1995/1996
- Gen:3 Election of Standing Scientific Committee Chairmen at 1996 Annual Science Conference (84th Statutory Meeting) (E+F)
- Gen:4 Withdrawn
- Gen:5 Advance Release of Tables, 1-6 of ICES Fisheries Statistics, Vol. 80, 1995 and Addendum
- Gen:6 1995/1996 Overview of ICES Committees and Subsidiary Groups and their Shadowing by Secretariat Staff, and Schedule of ICES Meetings and List of CM Codes
- Gen:7 Report of the Bureau Working Group on the Structure of ICES II

(E+F) = in English and French

DEL - DELEGATES DOCUMENTS

- Del:1* Audited Accounts for Financial Year 1994/1995
- Del:2* Progress Report on Administration for the Year 1 November 1995 to 31 October 1996
- Del:3* Cooperation with Other International Organisations: Working Relationships and Financial Arrangements
- Del:4* Estimated Accounts for Financial Year 1995/1996 (E+F)
- Del:5* Draft Budget for Financial Year 1996/1997 (E+F)
- Del:6* Draft Forecast Budget for Financial Year 1997/1998 (E+F)
- Del:7* Elections and Appointments by the Council at the 1996 Annual Science Conference (84th Statutory Meeting) (E+F)
- Del:8* 1997, 1998 Annual Science Conferences (85th and 86th Statutory Meetings) and Subsequent Conferences
- Del:9* Memorandum of Understanding Concluded with FAO
- Del:10* Elections for New Chairmen of Consultative and Advisory Committees
- Del:11
Ref A Report of the Bureau Working Group on Planning for the ICES Centenary
- Del:12
[A:11] Report of the *Ad Hoc* Group of Database/GIS Practitioners
- Del:13* Proposals for Eleventh ICES Dialogue Meeting
- Del:14* Progress Report on Planning for ICES Young Scientists Conference
- Del:15
Ref A North Sea Process: Progress Report on Preparations for 1997 Intermediate Ministerial Meeting and Fifth International Conference on the Protection of the North Sea
- Del:16* ICES Data Handling Policy: Events Precipitated by OSPAR and HELCOM
- Del:17* Topics for Delegates 'Extra Session'
- Del:18* Report of Meeting on "Cooperation Through Coordination" (5-6 March 1996)

* For Delegates only
(E+F) in English and French

FI - FINANCE COMMITTEE

FI:1* Agenda for Finance Committee

PUB - PUBLICATIONS COMMITTEE

Pub:1 Agenda for the Publications Committee
Pub:2 Review of ICES publication Activities in 1995/1996
Pub:3 Sale and promotion of ICES Publications during the last three years
Pub:4 *ICES Journal of Marine Science*: Editors' Report for 1995/1996
Pub:5 *ICES Journal of Marine Science*: Academic Press Publisher's Report for 1995/1996
Pub:6 *ICES Journal of Marine Science*: Status of ICES/Academic Press joint account for 1995
Pub:7 *ICES Cooperative Research Repor* series: Editor's Report for 1995/1996 with Annex
Pub:8 ICES publications and electronic media
Pub:9 ICES Centenary and publishing plans

REFERENCE PAPERS: E:8, F:1, L:1

* For Finance Committee and Delegates only

A - CONSULTATIVE COMMITTEE

A:1	Agenda for the Consultative Committee
A:2	Minutes from ACFM Meeting, ICES Headquarters, 24 October to 1 November 1995
A:3	Minutes from ACFM Meeting, ICES Headquarters, 16-23 May 1996
A:4	Minutes from ACME Meeting, ICES Headquarters, 10-15 June 1996
A:5	Report of the Programme Planning Group
A:6	Report of the Study Group on Long-Finned Pilot Whales
A:7 Ref. C, G, H, L	Report of the ICES/GLOBEC Cod and Climate Database Workshop
A:8*	Report of the <i>Ad Hoc</i> Group on the Production of ICES Working Group Reports
A:9 Ref. C, G, H, L	Report of the Second ICES/GLOBEC Backward-Facing Workshop
A:10 Ref. C, G, H, L	Report of the ICES/GLOBEC Working Group on Cod and Climate Change
A:11	Report of the <i>Ad Hoc</i> Group of Database/GIS Practitioners
A:12 Ref. C, G, H, J, K, L	Report of the ICES/GLOBEC North Atlantic Regional Co-ordination Group
A:13*	1995/1996 Overview of Requests for Services and Advice from ICES
A:14	Compendium of Draft Recommendations

* For Consultative Committee and Delegates only

FISH CAPTURE COMMITTEE

B:1			Study Group on Grid (Grate) Sorting Systems in Trawls, Beam Trawls and Seine Nets
B:2			Working Group on Fishing Technology and Fish Behaviour
B:3			Working Group on Fisheries Acoustics Science and Technology
B:4			Study Group on the Use of Selectivity Measurements in Stock Assessment
B:5			Study Group on Unaccounted Mortality in Fisheries
B:6			Not received
B:7			Not received
B:8		E. Dahm and H. Wienbeck	New facts on the efficiency or total gear selectivity of German survey bottom trawls - Possible effects on stock assessment and stock protection
B:9		O. Prawitt <i>et al.</i>	Relationship between fishing power and vessel characteristics of German beam trawlers fishing for brown shrimp in the North Sea
B:10			Withdrawn
B:11			Withdrawn
B:12	Poster	O.R. Godø and A. Totland	A stationary acoustic system for monitoring undisturbed and vessel affected fish behaviour
B:13		G. Thorsteinsson and H. Björnsson	Longline experiments in Icelandic waters in 1994
B:14			Withdrawn
B:15		A. Campos <i>et al.</i>	Experiments with sorting panels and square mesh windows in the Portuguese crustacean fishery
B:16		E. Pikitch <i>et al.</i>	Mortality of trawl-caught and discarded Pacific halibut (<i>Hippoglossus stenolepis</i>)
B:17	Poster	P.G. Fernandes and E.J. Simmonds	Practical approaches to account for receiver delay and the TVG start time in the calibration of the Simrad EK500
B:18	Poster	H. Özbiğín <i>et al.</i>	Seasonal variation in cod-end selectivity of haddock
B:19			Withdrawn
B:20		J. Massé and N. Guiho	Reliability of species identification from mid-water trawl catches during acoustic surveys: a catchability study
B:21		E. Dahm <i>et al.</i>	The plaice box - effects of different fishing gear and area on the catch composition
B:22		O.A. Misund and H. í. Jakupsstovu	An intership sonar calibration experiment in the Norwegian Sea
B:23		I. Huse <i>et al.</i>	Effects of fishing strategy on relative selectivity in trawls, longline and gillnets
B:24		A.K. Beltestad and O.A. Misund	Survival of mackerel and saithe escaping through sorting grids in purse seines
B:25	Poster	P-O. Larsson <i>et al.</i>	Swedish trials to improve selectivity in demersal trawls in the Baltic cod fishery
B:26			Not received

B:27		K. Olsen and Ahlquist	I.	Target strength of herring, at depth
B:28				Withdrawn
B:29	Ref.	H. Polet and D, K Redant	F.	Effect of population structure sampling strategy and sample size on the estimates of selection parameters for shrimp (<i>Crangon crangon</i>) trawls
B:30				Withdrawn
B:31		L. Monieau and Pettigas	P.	Characterizing the spatial distribution of fish schools with a point process approach: a first application on sonar recordings
B:32				Withdrawn
B:33				Withdrawn
B:34		S. Løkkeborg and Pina T.		Effects of setting time, setting direction and soak time on longline catch rates
B:35				Withdrawn
B:36		E. Ona <i>et al.</i>		Some pitfalls of short-range standard-target calibration
B:37		K.G. Foote		Effect of missing modes on calibration sphere target strengths
B:38	Poster	R.P. Briggs <i>et al.</i>		Catch composition of <i>Nephrops</i> nets with 70 mm and 80 mm meshes in the Northern Ireland <i>Nephrops</i> fishery
B:39		R.P. Briggs <i>et al.</i>		The use of parallel haul and twin-trawl techniques to study optimum position of square mesh escape panels in <i>Nephrops</i> trawls

REFERENCE PAPERS: L:21

HYDROGRAPHY COMMITTEE

C:1 Ref. L		Working Group on Shelf Seas Oceanography
C:2		Working Group on Marine Data Management
C:3		Working Group on Oceanic Hydrography
C:4	W. Fennel	Wind forced oceanic responses near ice edges
C:5	J. Berntsen <i>et al.</i>	Validation and sensitivity study of a sigma-coordinate ocean model using the SKAGEX dataset
C:6	W. Matthäus and H. Fischer	The significance of the entrance sills to the Baltic Sea for salt water inflows
C:7	J. Blindheim <i>et al.</i>	Recent upper layer cooling and freshening in the Norwegian Sea
C:8		Withdrawn
C:9 Ref. L	A. Leonov and V.V. Sapozhnikov	Modelling of physical chemical biological interactions in the Okhotsk Sea ecosystem
C:10		Withdrawn
C:11	V.V. Tereschenko	Seasonal and year-to-year variations of temperature and salinity along the Kola Meridian transect
C:12		Not received
C:13		Not received
C:14 Ref. G	H. Yndestad	Systems dynamics of North Arctic cod
C:15	H. Yndestad	Stationary temperature cycles in the Barents Sea. The cause of causes
C:16	Poster B. Megrey <i>et al.</i>	Effects of mesoscale circulation features on prey dynamics and growth of young walleye pollock as determined from a trophodynamic, biophysical, individual-based model.

REFERENCE PAPERS: A:7, A:9, A:10, A:12, G:13, G:14, H:14, L:3, L:30

STATISTICS COMMITTEE

D:1 Ref. Env + E			Working Group on Statistical Aspects of Environmental Monitoring
D:2			Fishery Secretary; Progress Report 1995/1996
D:3	Poster	I. Sobrino <i>et al.</i>	Defining species-specific effort to a multi-specific trawl fishery off the Gulf of Cádiz
D:4		J. Gröger	A simple statistical age reading calibration model
D:5		O. Maury and D. Gascuel	Stock-recruitment relationship, minimum biological levels and stock collapse risk: a method of assessment based on production data
D:6 Ref. K		F. Redant	Effect of population structure, sampling strategy and sample size on the estimation of length frequency distributions and population parameters: a case study on brown shrimp (<i>Crangon crangon</i>)
D:7 Ref. G		K.R. Patterson	Assessing fish stocks when catches are misreported: model, simulation tests and application to cod, haddock and whiting in the ICES area
D:8 Ref. G		K.R. Patterson	A parameter-sparse model of North Sea herring dynamics
D:9 Ref. H		J.C. Holst	Back-calculated length at age in Norwegian spring-spawning herring: estimating the common intercept or origin by tuning back-calculated length frequencies to observed ones
D:10		R. Cook and S. Reeves	A comparison of the selectivity parameters of Scottish demersal sein and trawls estimated from commercial catch data and designed experiments
D:11		R.A. Myers <i>et al.</i>	Invariants of spawn-recruitment relationships for marine, anadromous, and freshwater species
D:12		G. Gudmundsson	Stochastic growth models
D:13	Poster	P.G. Fernandes	The application of a log backtransformation in geostatistical analysis to determine dataset selection in North Sea herring acoustic surveys
D:14 Ref. H		Ph. Guiblin <i>et al.</i>	Spatial distribution of length and age for Orkney-Shetland herring
D:15 Ref. H		Ph. Guiblin <i>et al.</i>	Abundance and variance of Orkney-Shetland herring using geostatistics
D:16 Ref. E		K. Sunnanå and B. Stensholt	Spatial distributions of variables in marine environmental and fisheries research. Part I: Geostatistics and autocorrelated environmental and fisheries data
D:17		M.T. Jonsson <i>et al.</i>	Optimizing the sailing route for fixed groundfish surveys station
D:18 Ref. G	Poster	E.J. Simmonds	Fitting variograms to North Sea herring acoustic survey data for survey variance estimation

REFERENCE PAPERS: B:29, Env:6

MARINE ENVIRONMENTAL QUALITY COMMITTEE

E:1		ICES/HELCOM Workshop on Quality Assurance and Intercomparison of Pelagic Biological Measurements in the Baltic Sea
E:2		ICES/HELCOM Workshops on Quality Assurance and Intercomparison of Benthos Measurement Methods in the Baltic Sea
E:3		ICES/HELCOM Steering Group on Quality Assurance of Biological Measurements in the Baltic Sea
E:4		ICES/HELCOM Steering Group on Quality Assurance of Chemical Measurements in the Baltic Sea
E:5		Steering Group for the Coordination of the Baseline Study of Contaminants in Baltic Sea Sediments
E:6		Working Group on the Baltic Marine Environment
E:7		Working Group on the Effects of Extraction of Marine Sediments on the Marine Ecosystem
E:8		Report of the Editor of the Techniques in Marine Environmental Science for 1996
E:9	A. Temara <i>et al.</i>	<i>Asterias rubens</i> (Echinodermata, Asteroidea) in polluted Sør fjord (SW Norway): molecular biomarkers and bioavailability of heavy metals
E:10	N. Fernandez Castro <i>et al.</i>	Contamination par le tributylétain (TBT) du Bassin d'Arcachon évaluée à l'aide d'un indicateur biologique: l'imposex chez <i>Ocenebra erinacea</i> . Résultats préliminaires
E:11	Poster D. Minchin	Desk assessment of discharges of shipping ballast water in Ireland
E:12	S. Chang <i>et al.</i>	Sediment chemical contamination and liver lesions in winter flounder (<i>Pleuronectes americanus</i>) from Northeast United States estuaries
E:13	D.M. Lowe and M.N. Moore	Lysosomal pathology as a biomarker of pollution impact in the marine environment
E:14	M. Cronin <i>et al.</i>	Trace metals in deep sea fish from the North Atlantic
E:15 Ref. L	V. Dethlefsen and H. von Westernhagen	Water temperatures and prevalences of malformations of pelagic fish embryos in the North Sea
E:16 Ref. L	V. Dethlefsen <i>et al.</i>	Exposure of pelagic fish embryos to UV-B in a sunshine simulator
E:17	T. Lang and V. Dethlefsen	Fish disease monitoring - a valuable tool for pollution assessment?
E:18	J.F. Payne	What level of concern is warranted with respect to oil development on the Grand Banks of Newfoundland?
E:19		Not received
E:20	P. Roose <i>et al.</i>	Determination of C ₁ -C ₂ organochlorines and monocyclic aromatic hydrocarbons in marine biota from the Belgian Continental Shelf
E:21	J. Dewulf and H. Van Langenhove	Concentration gradients of thirteen priority volatile chlorinated and monocyclic aromatic hydrocarbons in the Sheldt estuary
E:22		Not received

E:23		Not received
E:24		Not received
E:25	F. Galgani <i>et al.</i>	Debris on the deep sea floor: a growing problem.
E:26	H. Westerberg <i>et al.</i>	Effects of suspended sediments on fish and fish egg and larvae and on the behavior of adult herring and cod
E:27		Not received
E:28	T.H. Hutchinson <i>et al.</i>	Evaluation of immune function in marine fish (<i>Scophthalmus maximus</i> L.) exposed to sediments contaminated with polychlorinated biphenyls
E:29		Not received

REFERENCE PAPERS: D:1, D:16, L:3, Env:4, Env:5, Env:6, Env:7

MARICULTURE COMMITTEE

F:1			ICES Identification Leaflets for Diseases and Parasites of Fish and Shellfish. Editors Report 1995/1996.
F:2			Working Group on the Application of Genetics in Fisheries and Mariculture
F:3			Sub-Group on Statistical Analysis of Fish Disease Data in Marine Fish Stocks
F:4			Working Group on Pathology and Diseases of Marine Organisms
F:5			Working Group on Environmental Interactions of Mariculture
Ref. K			
F:6			Working Group on Marine Fish Culture
F:7	Poster	B. Björnsson	A feeding trial of wild cod in a small fjord on the East coast of Iceland
F:8		E. Vázquez <i>et al.</i>	Rapid flow cytometry method for triploidy determination in turbot (<i>Scophthalmus maximus</i> L.)
F:9		C. Fernandez <i>et al.</i>	Comparative performance of growth in diploid and triploid turbot (<i>Scophthalmus maximus</i> L.)
F:10	Poster	J. Iglesias <i>et al.</i>	The octopus (<i>Octopus vulgaris</i> Cuvier): A future candidate for aquaculture?
F:11		I. Fjallstein <i>et al.</i>	Enhancement of Atlantic cod (<i>Gadus morhua</i> L.) on Faroe Bank
F:12		I. Fjallstein and E. Magnusen	Growth of Atlantic cod (<i>Gadus morhua</i> L.) of Faroe Bank strain and Faroe Plateau strain in captivity
F:13		H. Ackefors	European Aquaculture industry towards the year 2000
F:14	Poster	A.K. Imsland <i>et al.</i>	New variants of the hemoglobin of turbot (<i>Scophthalmus maximus</i>): possible use in population genetics studies and aquaculture
F:15	Poster	B. Havardsson <i>et al.</i>	The effect of carotenoids in feed and environment temperature on the gonad development and gonad colour of the green sea urchin (<i>Strongylocentrotus droebachiensis</i> Müller 1776)

DEMERSAL FISH COMMITTEE

G:1 Ref.Assess			Workshop on Age Reading of <i>Sebastes spp.</i>
G:2 Ref. Assess			Study Group on Beam Trawl Surveys
G:3			<i>Ad Hoc</i> meeting of the Co-ordinators of the 1991 Stomach Sampling Database
G:4			Study Group on Elasmobranch Fishes
G:5	Poster	A. Carpentier	Distribution and abundance of whiting (<i>Merlangius merlangus</i>) in the Eastern Channel
G:6		H.-J. Rätz <i>et al.</i>	Structures of commercial catches of Oceanic Redfish (<i>Sebastes mentella</i> Travin) in 1995
G:7		U. Damm and T. Neudecker	Abundance indices of young plaice (<i>Pleuronectes platessa</i> L.) and sole (<i>Solea solea</i> L.) at the west coast of Schleswig-Holstein, North Sea
G:8 Ref. H		J. Magnússon <i>et al.</i>	Report on the Joint Icelandic/German/Russian Survey on Oceanic Redfish in the Irminger Sea and Adjacent Waters in June/July 1996
G:9		H. Paulsen	Otolith size related to growth rate in reared, restocked and wild turbot (<i>Scophthalmus maximus</i>)
G:10	Poster	E. Magnusson	Electrophoretic studies of cod (<i>Gadus morhua</i>) from Faroe Bank and Faroe Plateau compared with results found in other distribution areas
G:11			Withdrawn
G:12 Ref. H		O. Nakken and A. Raknes	Corrections of indices of abundance of 0-group fish in the Barents Sea for varying capture efficiency
G:13 Ref. C		G. Ottersen <i>et al.</i>	Ambient temperature and distribution of Northeast Arctic cod
G:14 Ref. C		K. Michalsen <i>et al.</i>	Growth of Northeast Arctic cod in relation to ambient temperature
G:15		T. Jakobsen	The relationship between spawning stock and recruitment for Atlantic cod stocks
G:16		A.M. Ajiad	Assessing growth of Northeast Arctic cod by a bioenergetics model
G:17		A. Biseau	Definition of a directed fishing effort, and its impact on CPUE trends: the case of the French demersal fishery off the west coast of Scotland
G:18	Poster	J. Hesart de la Villemarqué and D. Woehrling	The cod-fishing of the United Kingdom from 1500 to 1950 – Preliminary results
G:19		M. Azevedo	Studying the feeding habits of anglerfish (<i>Lophius spp.</i>) in Portuguese waters: a qualitative approach
G:20			Not received
G:21	Poster	J.L. del Rio <i>et al.</i>	On infestation of oceanic redfish, <i>Sebastes mentella</i> (Travin), by the copepod <i>Sphyrion lumpi</i> (Kroyer) in the Irminger Sea
G:22	Poster	S. Junquera	Histological assessment of sexual maturity of the female long rough dab (<i>Hippoglossoides platessoides</i>) from the Western

			Barents Sea and Svalbard in summer
G:23		G. Nævdal <i>et al.</i>	Population structure of <i>Ammodytes marinus</i> in the Northeast Atlantic
G:24		S. Fevolden and G.H. Pogson	A highly diagnostic nuclear DNA marker for distinguishing between Norwegian coastal and Northeast Arctic populations of Atlantic cod
G:25		R. Reynisson and Th. Sigurdsson	Diurnal variations in the acoustic density and target strength measurements on oceanic redfish in the Irminger Sea
G:26		J. Jónsson and J.V. Magnusson	Acoustic index of 0-group redfish in the Irminger Sea, in August, 1992-1995
G:27	Poster	T. Johansen <i>et al.</i>	Studies on the relationship between deep-sea and oceanic <i>Sebastes mentella</i> in the Irminger Sea by the use of haemoglobin and allozyme
G:28		J.S. Collie and T.S. Tsou	Multispecies Virtual Population Analysis of the Georges Bank Fish Community
G:29			Not received
G:30		A. Hysten	Preliminary report of the international 0-group fish survey in the Barents Sea and adjacent waters in August-September 1995
G:31		A. Hysten	Preliminary report of the international 0-group fish survey in the Barents Sea and adjacent waters in August-September 1996
G:32		B. Steinarsson and G. Stefansson	Factors affecting cod growth and the effect on yields
G:33			Withdrawn
G:34		G. Marteinsdottir and A. Steinarsson	Variation in reproductive characteristics of cod: Effects of female properties on eggs and larvae
G:35			Withdrawn
G:36	Poster	Å Husebø and G. Nævdal	Haemoglobin sub-types applied for population studies on cod
G:37			Withdrawn
G:38		U. Lange and W. Greve	(How) Does temperature determine the spawning time and the distribution of fish?
G:39			Withdrawn
G:40		H. Murua <i>et al.</i>	Reproductive modality and batch fecundity of the European hake, <i>Merluccius merluccius</i>
G:41	Poster/ Video	N.A. Yaragina	Change of liver condition index of north-east Arctic cod in the 1970-90's
G:42		O.V. Smirnov	Stock status of Norwegian-Barents Sea population of Greenland halibut (<i>Reinhardtius hippoglossoides</i> Walbaum) by the data from Russian trawl surveys for 1990–1995
G:43	Poster	K.V. Drevetnyak and E.V. Gusev	On fecundity of redfish (<i>Sebastes mentella</i> Travin) from the Norwegian-Barents Sea population
G:44		V.N. Shibanov <i>et al.</i>	Assessment and distribution of the oceanic-type redfish (<i>Sebastes mentella</i>) formation in the Irminger Sea in 1995
G:45		A.P. Pedchenko <i>et al.</i>	Regularities of feeding concentrations of redfish <i>S. mentella</i> in the Irminger Sea
G:46		V.N. Shibanov <i>et al.</i>	Dynamics of commercial stocks of redfish <i>S. mentella</i> in the Irminger Sea in 1989-1995 from results of Russian summer trawl-

acoustic surveys

- G:47 N.A. Isaev *et al.* Results from research in the coastal zone of the Kola Peninsula
- G:48 T. Kristiansen and T. Svåsand Effect of size selective mortality on growth of coastal cod (*Gadus morhua* L.), illustrated by tagging data and an individual-based growth and mortality model
- G:49 K.V. Drevetnyak and V.M. Borisov Impact of fishery on structure of *Sebastes mentella* Travin population from the Barents and Norwegian Seas
- G:50 S. Svein-björnsson Report of the 0-group fish survey in Iceland and East Greenland waters, August 1996

REFERENCE PAPERS: A:7, A:9, A:10, A:12, C:14, D:7, D:8, D:18, H:1, M:1

PELAGIC FISH COMMITTEE

H:1 Ref. Assess, G		International Bottom Trawl Survey Working Group + Addendum
H:2		Working Group on Mackerel and Horse Mackerel Egg Surveys
H:3		Planning Group for Herring Surveys
H:4	M.R. George	Contributions to the use of condition factor: Studies of Spanish sardine, <i>Sardinops sagax</i> , and southern pacific jack mackerel, <i>Trachurus picturatus murphyi</i> , off Northern coast of Chile
H:5		Withdrawn
H:6	C. Hammer <i>et al.</i>	The use of weight length relationships for the analysis of acoustic data from herring surveys: A source of variability?
H:7	J.S. Christiansen <i>et al.</i>	Nonthermal correlates of selected temperature in capelin and polar cod-current lines of research
H:8	Poster E.J. Simmonds <i>et al.</i>	1995 ICES Coordinated Acoustic Survey of ICES Divisions IVa, IVb, VIa and VIIb
H:9	K.R.Patterson and D. Beveridge	Report of the herring larvae surveys in the North Sea in 1995/1996
H:10	M. Kerstan	Quantification of growth compensation and depensation in the South African sardine (<i>Sardinops sagax</i>) population
H:11	A. Slotte	Relations between seasonal migrations and fat content in Norwegian spring-spawning herring
H:12	T. Monstad <i>et al.</i>	Report of the joint Norwegian-Russian acoustic survey on blue whiting during spring 1996
H:13	O.A. Misund <i>et al.</i>	Migration behaviour of Norwegian spring spawning herring when entering the cold front in the Norwegian Sea
H:14 Ref. C	J. Jakobsson and O. J. Østvedt	A preliminary review of the joint investigations on the distribution of herring in the Norwegian and Icelandic Seas 1950-1970
H:15	A. Fernö <i>et al.</i>	The challenge of the herring in the Norwegian Sea: making optimal collective spatial decisions
H:16	A. Silva <i>et al.</i>	Preliminary results on the distribution and spawning of blue whiting, <i>Micromesistius poutassou</i> , off the Portuguese coast
H:17	H. Mosegaard and K. Popp Madsen	Discrimination of mixed herring stocks in the North Sea using vertebral counts and otolith microstructure
H:18		Not received
H:19	P. Lucio	Biological aspects (growth and reproduction) of Mediterranean horse mackerel (<i>Trachurus mediterraneus</i> , Steindachner 1968) in the Bay of Biscay
H:20	E.S. Tereshchenko	Results from studies on capelin otolith structure
H:21	N. Luyeye	Some results of the hydroacoustic surveys off Angolan coast
H:22		Not received
H:23	M.M. Martins	New biological data on growth and maturity of Spanish mackerel (<i>Scomber japonicus</i>) off the Portuguese coast (ICES Division

		IXa)	
H:24	M.M. Martins	Abundance and distribution pattern of Spanish mackerel (<i>Scomber japonicus</i>) and mackerel (<i>Scomber scombrus</i>) in the Portuguese continental waters (ICES Division IXa)	
H:25	L. Lástein and S. Hjalti i Jakupsstovu	Distribution of blue whiting north of the Faroes in relation to hydrography 1982-1991	
H:26	A.M. Costa and F.M. Borges	Total fecundity and atresia of horse mackerel (<i>Trachurus trachurus</i> L.) in Division IXa	
H:27	A.G. Murta and M.F. Borges	Morphological variations in the sagitta otoliths of horse mackerel (<i>Trachurus trachurus</i>) in Portuguese Waters (Div. IXa)	
H:28	H. Vilhjálmarsson and J. Jónsson	A study of spawning and post-spawning capelin west of Iceland in March 1996	
H:29	Poster P. Sanchez <i>et al.</i>	The application of the daily egg production method to the assessment of the SW Atlantic anchovy (<i>Engraulis anchoita</i>) spawning biomass off Argentina	
H:30	J. Jakobsson	The North Icelandic herring fishery 1939-1969 and the Atlanto Scandian herring	
H:31	M.K Ostrowski.and K.G. Foote	Acoustic portrait of herring in Vestfjord, January 1996, with geostatistical analysis	
H:32		Not received	
H:33	K.G. Foote <i>et al.</i>	Acoustic abundance estimation of the stock of Norwegian spring-spawning herring, winter 1995-1996	
H:34	S.V. Belikov <i>et al.</i>	Reproductive capacity of Norwegian spring-spawning herring during stock recruitment	
H:35	L.I. Koval	Polymorphic locus frequency in Peruvian horse-mackerel and females intrapopulation heterogeneity in growth rate	

REFERENCE PAPERS: A:7, A:9, A:10, A:12, D:9, D:14, D:15, G:8, G:12, L:10, L:33, M:1

BALTIC FISH COMMITTEE

J:1			Baltic International Fisheries Survey Working Group
J:2			(Study Group on Baltic Cod Age-Reading) meeting postponed until October 1996
J:3	T. Drevs		Abundance of the Baltic flounder (<i>Platichthys flesus</i>) in Estonian coastal waters
J:4	T.G. Vasilieva		Sprat distribution in the south-eastern Baltic Sea during 1994-1995
J:5	F.A. Patokina		Feeding peculiarities and interrelations of abundant fishes from the Baltic Sea
J:6	E.M. Karasiova		On relation of recruitment and survival index of Baltic cod and spawning stock size
J:7			Not received
J:8	M. Bleil and Oeberst	R.	The fecundity of cod of the ICES Sub-divisions 22, 24 and 25 in the years 1992 to 1995 (preliminary results)
J:9	U. Böttcher and Oeberst	R.	Investigations to the otolith-microstructure of juvenile Baltic cod in the phase of the settling
J:10	J. Gröger and Gröhsler	T.	Information updated discrimination of herring stocks in Baltic Division IIIA
J:11	T. Gröhsler and Götze	E.	Report on the acoustic survey in ICES Sub-divisions 22, 23 and 24 in October 1995
J:12	H. Müller		Minimum sample sizes for length distributions of the catch estimated by an empirical approach
J:13	R. Oeberst and Klenz	B.	Comparison of different independent estimates of herring year class indices in ICES Sub-divisions 22 and 24
J:14	O. Rechlin		Why was the Baltic Sea cod fishery about to break down in 1993?
J:15	K. Wieland and Horbowa	K.	Recent changes in peak spawning time and location of spawning of cod in the Bornholm Basin, Baltic Sea
J:16	H. Ojaveer		Changes in the fish community of the Gulf of Riga during last two decades
J:17	C. Möllmann and F.W. Köster		Temporal and spatial variability of food consumption by herring and sprat populations in the central Baltic
J:18	D. Schnack <i>et al.</i>		Baltic cod recruitment project (CORE): progress report 1995/1996
J:19	F. Zuzarte <i>et al.</i>		Diet composition of cod larvae in the Bornholm Basin
J:20	H. Müller and C.C. Friess		An assessment of the flounder (<i>Platichthys flesus</i>) stock in ICES Sub-divisions 24 and 25
J:21	G. Kornilovs and M. Fetter	M.	The comparison of Baltic herring age determination from scales and otoliths
J:22	V. Chervontsev and F. Shvetsov		The findings and populational status of 'Gigantic' herring in the North-Eastern Baltic
J:23	M. Plikshs		Recent changes in cod spawning stock abundance and reproduction success in Gotland area: is cod recovery possible?
J:24	A. Davidjuka		Herring and sprat feeding in 1994 and 1995 in the Eastern

		Baltic
J:25	A. Makarchouk	Ichthyoplankton on the Eastern Baltic in 1991-1995: abundance, distribution and composition
J:26	M. Fetter and A. Davidjuka	Herring daily feeding activity in the Eastern Baltic
J:27	T. Raid	On the effect of fishery on herring stocks in the northeastern Baltic
J:28	M. Kosior <i>et al.</i>	Morbid symptoms observed in Baltic fish during two research cruises in 1995 and 1996
J:29	M. Kosior <i>et al.</i>	Reproduction of Baltic flounder (<i>Platyctys flesus</i> L.) in relation to some somatic factors
J:30	B. Draganik and J. Kuczynski	Seasonal changes in condition factor and gonadosomatic index of the Baltic flounder
J:31	B. Draganik <i>et al.</i>	Harvesting turbot (<i>Psetta maxima</i> L.) in the Polish and Lithuanian fisheries zones
J:32	B. Draganik <i>et al.</i>	The ichthyofauna associated with the shallow waters off Poland and Lithuania
J:33		Not received
J:34	A. Orłowski <i>et al.</i>	Polish acoustic survey of fish stock abundance in the ICES Subdivisions 25, 26 and 27 of the Baltic Sea, carried out in October 1995
J:35	J.R. Nielsen and K. M. Lehmann	Preliminary results on the distribution of metamorphosed 0-group in the Central Baltic Sea within the AIR Baltic CORE-Project
J:36		Withdrawn

REFERENCE PAPERS: A:12, L:11, L:12, L:13, M:1, M:9

SHELLFISH COMMITTEE

K:1			Study Group on the Biology and Life History of Majid Crabs
K:2			Study Group on Life Histories of <i>Nephrops</i>
Ref.			
Assess			
K:3			Working Group on Cephalopod Fisheries and Life History
Ref.			
Assess			
K:4			Working Group on Crangon Fisheries and Life History
K:5			Withdrawn
K:6	Poster	M. Aschan <i>et al.</i>	Results of Norwegian and Russian investigations of shrimp (<i>Pandalus borealis</i>) in the Barents Sea and the Svalbard area 1995
K:7			Withdrawn
K:8		T. Neudecker and U. Damm	Abundance indices of brown shrimp (<i>Crangon crangon</i> L.) at the west coast of Schleswig-Holstein, North Sea
K:9	Poster	O.D. Jónsdóttir <i>et al.</i>	Population genetic studies of Northern shrimp (<i>Pandalus borealis</i> Krøyer) in Icelandic waters and Denmark Strait
K:10		E. Rafter <i>et al.</i>	Stomach content, life history, maturation and morphometric parameters of red king crab, <i>Paralithodes camtschaticus</i> , from Varangerfjord area, North Norway
K:11		M. Aschan <i>et al.</i>	Catch statistics and life history of shrimp, <i>Pandalus borealis</i> , in the Jan Mayen area
K:12			Not received
K:13		A. Richards <i>et al.</i>	Relative influence of spawning biomass and temperature on recruitment of <i>Pandalus borealis</i> in the Gulf of Maine
K:14		A. Moreno <i>et al.</i>	Age and growth of the squid <i>Loligo vulgaris</i> from Portuguese waters
K:15		M.M. Fernandez-Núñez <i>et al.</i>	Reproductive biology of octopus (<i>Octopus vulgaris</i> Cuvier, 1797) from North Western African Coast (21°N-26°N)
K:16			Withdrawn
K:17		H. Bjørke and K. Hansen	Recordings of mature <i>Gonatus fabricii</i> (Lichtenstein) off the Norwegian coast
K:18		V. Hernandez-Garcia <i>et al.</i>	On the cephalopod fishery off the southwest of Gran Canaria (Canary Islands, Spain)
K:19		A. Woll	Exploratory fishery for the northern stone crab (<i>Lihodes maja</i>) off the south-east coast of Greenland. Fishery, production and marketing testing
K:20		J.P. Hillis	Progress and problems in ageing <i>Nephrops</i>
K:21		J.P. Hillis	Factors affecting catchability in <i>Nephrops</i> : current speed
K:22		A.M. Caramelo <i>et al.</i>	The crustacean fishery and its management in Portuguese waters
K:23		G.J. Pierce <i>et al.</i>	Stock assessment for <i>Loligo</i> spp. in the Northeast Atlantic
K:24			Withdrawn

K:25			Withdrawn
K:26		P. Sand Kristensen	Eelgrass (<i>Zostera marina</i>) and mussels (<i>Mytilus edulis</i>) in the Danish fjords of Kolding, Vejle and Horsens, in 1994
K:27		P. Sand Kristensen	Biomass, density and growth of <i>Spisula solida</i> in the Danish parts of the North Sea, South of Horns Reef
K:28	Poster	E. Gonzáles-Gurriarán <i>et al.</i>	Relative growth and sexual maturity of the spider crab <i>Maja squinado</i>
K:29		E. Gonzáles-Gurriarán <i>et al.</i>	Reproductive biology of the spider crab <i>Maja squinado</i> based on the analysis of seminal receptacles
K:30	Poster	M.J. Williams <i>et al.</i>	Preliminary investigations into the immune system of <i>Crassostrea rhizophorae</i> from an oyster culture farm in Jamaica
K:31			Not received
K:32		M. Rasero and J.M. Portela	Occurrence of mated females of <i>Loligo gahi</i> (Cephalopoda: Loliginidae) in the trawling fishery around the Falkland Islands: implications for the fishery and the life cycle

REFERENCE PAPERS: A:12, B:29, B:30, D:6, F:5, M:1

BIOLOGICAL OCEANOGRAPHY COMMITTEE

L:1			ICES Identification Leaflets for Plankton. Editors Report 1995/1996
L:2			Working Group on Zooplankton Ecology
L:3			Working Group on Phytoplankton Ecology
Ref. C+E Env.			
L:4			ICES/IOC Working Group on Harmful Algal Bloom Dynamics
L:5			Benthos Ecology Working Group
L:6			Working Group on Recruitment Processes
L:7			Not received
L:8			Study Group on Gulf III Sampler Efficiency Calibrations
L:9		D.J. Gifford <i>et al.</i>	The diet of <i>Calanus finmarchicus</i> during development of stratification on Georges Bank
L:10 Ref. H		F.Q. Dortch <i>et al</i>	Electron transport system (ETS) activities as a biochemical measure of respiration rate in individual fish larvae
L:11 Ref. J.	Poster	L.V. Roudinskaya	Chironomids weight growth rate in the currish lagoon of the Baltic Sea
L:12 Ref. J	Poster	E.N. Naumenko <i>et al</i>	Dynamics of zooplankton species diversity indices in the currish lagoon of the Baltic Sea
L:13 Ref. J		E. Naumenko	Species composition seasonal and long-term dynamics of zooplankton abundance and biomass in the currish lagoon of the Baltic Sea
L:14		M.R. George	Occurrence of meroplanktonic larvae, <i>Copepod nauplii</i> and other mesozooplankton during winter months in the German Wadden Sea
L:15	Poster	K. Wieland <i>et al.</i>	Estimates of zooplankton abundance and size distribution with the Optical Plankton Counter (OPC)
L:16		E. Gaard and J. Reinert	Pelagic cod and haddock juveniles on the Faroe Plateau: distribution, diets and feeding habitats
L:17			Not received
L:18		K. Sherman <i>et al</i>	Emergent patterns of zooplankton biodiversity within the Northeast Shelf ecosystems
L:19			Withdrawn
L:20		P. Dalpadado <i>et al</i>	Food and feeding conditions of herring <i>Clupea harengus</i> in the Norwegian Sea
L:21 Ref. B		K.G. Foote <i>et al.</i>	Initial, collateral measurements of some properties of <i>Calanus finmarchicus</i>
L:22	Poster	P. do Carmo Lopes and A. Farinha	Occurrence of the eggs and larvae of the <i>Macrorhamphosus scolopax</i> in the Western Coast of the Iberian Peninsula
L:23	Poster	G. Stéfansdottir <i>et al.</i>	Bacteria and hydrolytic activities in <i>Calanus finmarchicus</i> fecal pellets
L:24	Poster	K. Thorisson	The ichthyoplankton in two icelandic fjords

L:25	Poster	E. Björk Örnólfsson and O.S. Andrésson	Pico- and ultra-phytoplankton in oceanic waters around Iceland
L:26		A. Gislason and O. Astthorsson	Seasonal variations in biomass, abundance and composition of zooplankton north of Iceland
L:27			Not received
L:28		B. Rothschild	Influence of physical forcing on carbon microclouds in the ocean
L:29		P. Margonski and K. Horbowa	Predation on cod eggs - impact of medusae size
L:30 Ref. C	Poster	K. Gudmundsson <i>et al.</i>	Estimation of assimilation numbers in Icelandic waters
L:31		K. Lilliendahl and J. Solmundsson	Preliminary estimate on summer food consumption of seabirds in Iceland
L:32		O.S. Astthorsson and A. Gislason	Food of capelin in the Sub Arctic waters north of Iceland
L:33 Ref. H	Poster	E.J. Chesney and M. LaGarde	Foraging behavior of bay anchovy larvae, <i>Anchoa mitchilli</i>

REFERENCE PAPERS: A:7, A:9, A:10, A:12, C:1, C:9, E:15, E:16

ANACAT FISH COMMITTEE

M:1 Ref. G, H, J,K, Assess		Study Group on Stock Identification Protocols for Finfish and Shellfish Stocks
M:2	E. Ikonen and I. Torvi	Exceptional return migration of Bothnian Bay salmon
M:3	K.D. Friedland and <i>et al.</i>	Aspects of sexual maturation in Atlantic salmon suggested by elemental analysis of otoliths and gonadosomal indices
M:4	J.C. Holst <i>et al.</i>	Observations of abundance, stock composition, body size and food of postsmolts of Atlantic salmon in the NE Atlantic during summer
M:5	J. Sturlaugsson and M. Johannsson	Migratory pattern of wild sea trout (<i>Salmo trutta</i> L.) in SE-Iceland recorded by data storage tags
M:6	M. Jóhannsson <i>et al.</i>	Maintenance of angling through smolt release in the Rangá River in southern Iceland
M:7	S.M. Einarsson and G. Gudbergsson	The closure of commercial netting in R. Hvitá, Iceland - Effects on rod catches of salmon (<i>Salmo salar</i>) in the tributaries
M:8	S. Gudjonsson <i>et al.</i>	Exploitation ratio of salmon in relation to salmon run in three Icelandic rivers
M:9 Ref. J	E. Ikonen <i>et al.</i>	Use of data storage tags to study the spawning migration of Baltic salmon (<i>Salmo salar</i>) in the Gulf of Bothnia
M:10	J.A. Jacobsen and L.P. Hansen	The food of Atlantic salmon, <i>Salmo salar</i> L., north of the Faroe Islands
M:11	D. Martin	Global model of the dynamics and ecology of the population of allis shad (<i>Alosa alosa</i>) in the Gironde-Garonne-Dordogne watershed
M:12	M. Holm <i>et al.</i>	Sampling Atlantic salmon in the NE Atlantic during summer: methods of capture and distribution of catches
M:13	Ø. Skaala <i>et al.</i>	Genetic comparison of salmon (<i>Salmo salar</i> L.) from the White Sea and the Atlantic Ocean
M:14	A.V. Zubschenko <i>et al.</i>	Salmon rivers on the Kola Peninsula. Production potential and stock state of Atlantic salmon in the Bolshaya Zapadnaya Litsa River
M:15	A.V. Zubschenko <i>et al.</i>	Atlantic salmon from Russian rivers. Fisheries and state of the stocks in 1995
M:16		Report of the ICES Compilation of Microtag, Finclip and External Tag Releases in 1995

MARINE MAMMALS COMMITTEE

N:1			Study Group on Seals and Small Cetaceans in European Seas
N:2		U. Lindstrøm <i>et al.</i>	Do harp seals <i>Phoca groenlandica</i> exhibit particular prey preferences?
N:3		T. Haug <i>et al.</i>	Development of standardized sampling methods for use in regular diet studies of northeast Atlantic minke whales <i>Balaenoptera acutorostrata</i>
N:4		K.T. Nilssen <i>et al.</i>	Recent age compositions and aberrant migration patterns of the Barents Sea stock of harp seals <i>Phoca groenlandica</i>
N:5		T. Haug <i>et al.</i>	Post weaning variations in body condition and first independent feeding of northeast Atlantic harp (<i>Phoca groenlandica</i>) and hooded (<i>Cystophora cristata</i>) seals
N:6		G. Henriksen <i>et al.</i>	Tagging and recoveries of grey seals <i>Halichoerus grypus</i> in North Norway and on the Murman Coast, Russia
N:7		J. Sigurjónsson and G.A. Víkingsson	Feeding studies on the harbour porpoise in Icelandic coastal waters
N:8			Withdrawn
N:9	Poster	A. Lopez <i>et al.</i>	Marine mammals stranded in the North and Northwest Spain in 1995
N:10		M.B. Santos <i>et al.</i>	Stomach contents of sperm whales stranded in the North Sea
N:11		M.B. Santos <i>et al.</i>	Diets of cetaceans stranded in NW Spain 1994-95
N:12		M. Goujon and D. Gascuel	A density-dependent model of population dynamics to investigate the impact of the European albacore tuna driftnet fishery on dolphins populations
N:13			List of Publication of Interest to the Marine Mammals Committee

MINI-SYMPOSIUM ON ECOSYSTEM EFFECTS OF FISHERIES (MINI)

Mini:1		M-J Rochet		The effects of fishing on demographic traits of fishes
Mini:2		I. Olaso <i>et al.</i>		Importance of blue whiting (<i>Micromesistius poutassou</i>) discarded in the diet of dogfish (<i>Scyliorhinus canicula</i>) in the Cantabrian Sea
Mini:3	Poster	J.O. Leth and A. Kuijpers		Effects of the seabed sediment from beam trawling in the North Sea
Mini:4		P. Walker		Sensitive skates or resilient rays? Spatial and temporal shifts in ray species composition in the central and northwestern North Sea
Mini:5		M.J. Kaiser and B.E. Spencer		Short-term ecological effects of beam trawling in the Irish Sea: a review
Mini:6		C.J.M. Philippart		Long-term impact of bottom fisheries on bycatch of demersal fish and benthic invertebrates in the southeastern North Sea
Mini:7				Withdrawn
Mini:8		N. Perez <i>et al.</i>		Discards of the trawl and long-line Spanish fleets in ICES Sub-area VII in 1994
Mini:9		J. Collie <i>et al.</i>		Scallop dredging on Georges Bank: Photographic evaluation of effects on benthic epifauna
Mini:10				Withdrawn
Mini:11		Rijnsdorp, A.D., <i>et al</i>		Micro-scale distribution of beam trawl effort in the southern North Sea between 1993 and 1996 in relation to the trawling frequency of the sea bed and the impact on benthic organisms
Mini:12	Poster	G.J. Piet and A.D. Rijnsdorp		Changes in the demersal fish assemblage in the South-Eastern North Sea following the establishment of a protected area ("plaice box")
Mini:13				Withdrawn
Mini:14				Withdrawn
Mini:15		H. Gislason and J. Rice		Modelling the effect of changes in fishing effort on the size and diversity spectra of exploited fish assemblages

**THEME SESSION ON THE NORTH ATLANTIC COMPONENTS OF GLOBAL PROGRAMMES:
LESSONS TO ICES-GLOBEC FROM WOCE/JGOFS (O)**

O:1	S.A. Dobroliubov <i>et al.</i>		Water mass transport and heat flux changes at 36° N in the Atlantic Ocean
O:2	S.A. Dobroliubov		Fresh water transport in the North Atlantic Ocean
O:3	T.C. Platt and S. Sathyendranath		Biological oceanography in fisheries management
O:4	R.A. Clarke		Climate variability and the North Atlantic: the transition from WOCE to CLIVAR
O:5	R.A. Clarke <i>et al.</i>		The North Atlantic current and polar front revisited: the WOCE control volume experiment in the Newfoundland Basin, 1993-1995
O:6	J. Alheit and E. Hagen		The Bohuslän herring periods: are they controlled by climate variations or local phenomena?
O:7	S. Sætre Hjøllo and M. Mork		Atlantic inflow to the Norwegian Sea as deduced from current meter observations and numerical modelling
O:8	K. Orvik and M. Mork		Atlantic water transport from long-term current measurements in the Svinøy section
O:9	A. Sy <i>et al.</i>		Cooling of the intermediate layer in the Northern North Atlantic Ocean
O:10	T.T. Noji		Old and new perspectives on zooplankton and vertical particle flux
O:11	S. Østerhus <i>et al.</i>		Changes in the Norwegian Sea deep water
O:12			Withdrawn
O:13	J. Meincke		Changes of the North Atlantic overturning circulation
O:14	M.J.R. Fasham		Ecosystem modelling in the North Atlantic JGOFS Programme - What have we learnt?
O:15	S. Doney <i>et al.</i>		The North Atlantic carbon cycle: New perspectives from JGOFS and WOCE
O:16			Not received
O:17			Not received
O:18	R.A. Myers <i>et al.</i>		Spatial scales of interannual recruitment variations of marine, anadromous, and freshwater fish
O:19			Not received
O:20	J. Blindheim <i>et al.</i>		The R/V "Johan Hjort" 1994 NORDIC WOCE cruise: On hydrography and tracers
O:21			Not received

THEME SESSION ON MANAGEMENT FACED WITH MULTIPLE OBJECTIVES (P)

P:1		M. Sinclair <i>et al.</i>		Improvements to the management system for Scotia-Fundy groundfish
P:2		K. Sherman and Solow	A.	Modular strategies for assessing the changing states of large marine ecosystems
P:3		F. Skjold <i>et al.</i>		Production functions of the Norwegian bottom trawl fisheries of cod in the Barents Sea
P:4		S. Andreasson and Flaaten	O.	Bioeconomic and biological effects of size selective harvesting of North-East Arctic cod
P:5		A.I.L. Payne <i>et al.</i>		Managing fisheries following political transition in South Africa, faced with multiple objectives and aspirations
P:6		A. Willock		Multiple objectives and co-management: the necessary ingredients for good fisheries management
P:7				Withdrawn
P:8				Not received
P:9		K. Stokes and L. Kell		Multiple objectives and fisheries management: An approach to decision making
P:10	Poster	L. Kell <i>et al.</i>		Evaluating and comparing management procedures
P:11		J. Pope		Providing adequate fisheries management advice for complex fisheries subject to multiple objectives
P:12				Withdrawn
P:13		J.P. Hillis		Short term versus long and profits versus jobs in depleted fishery rehabilitation
P:14		D.E. Lane		Fisheries multiple criteria decision making under uncertainty
P:15		P. Sandberg <i>et al.</i>		The choice of TAC when faced with multiple objectives
P:16		J.H. Annala		Management objectives in New Zealand's ITQ System
P:17				Withdrawn
P:18		P. Salz		ITQs in the Netherlands: 20 years of experience
P:19		A. Laurec		Le nécessaire choix entre les différents objectifs: de l'analyse scientifique la décision
P:20		R.E. Townsend		Solving equity objectives via community quotas: Alaskan CDQ's

THEME SESSION ON REPRODUCTIVE DISTURBANCES OF MARINE SPECIES - CAUSES AND EFFECTS (Q) (POSTERS)

Q:1	Poster	D. Cyr and J.J. Nagler	Effects of environmental contaminants on the male gamete of American plaice
Q:2	Poster	F.P. Thurberg <i>et al.</i>	Effects of contaminated environments on reproductive success of the winter flounder, <i>Pleuronectes americanus</i>
Q:3	Poster	M.J.C. Harding <i>et al.</i>	Effects of TBT on the reproductive success of the dogwhelk <i>Nucella lapillus</i>
Q:4			Withdrawn
Q:5			Withdrawn
Q:6		q	Not received
Q:7	Poster	B.E. Bengtsson	Reproductive disturbances in Baltic fish - report from the Swedish FIRE-project
Q:8			Not received
Q:9	Poster	N.J. Prouse	A survey of imposex in the dogwhelk (<i>Nucella lapillus</i>) in Eastern Canada (1995)

**THEME SESSION ON RESULTS OF BASELINE STUDY OF CONTAMINANTS IN BALTIC
SEDIMENTS (R)**

R:1		H. Kankaanpää		Analysis of the ICES-HELCOM sediment baseline study samples for EOX gives more evidence of natural organohalogen production in the Baltic Sea
R:2		R. Carman		Vertical and spatial distribution of carbon and nutrients in soft bottom sediments of the Baltic Sea
R:3		H. Vallius		The load of anthropogenically derived heavy metals in recent sediments of Gulf of Finland
R:4		M. Leivuori		Accumulation of metals in the sediments in the Gulf of Bothnia and in the Gulf of Finland
R:5				Not received
R:6				Not received
R:7		H. Vallius <i>et al.</i>		Sedimentation basin characteristics in the Gulf of Finland, Baltic Sea
R:8				Not received
R:9		B. Larsen and Jensen	A.	Determination of accumulation rate, mixing and sensitivity for sediment monitoring using Pb210 profiles on the Baltic Baseline Sediment Stations
R:10	Poster	J.-E. Bruun		A method for visualization of the sea-floor topography to achieve higher precision in locating sampling sites
R:11		M. Perttilä and Albrecht	H.	Quality assurance of sediment sampling and the distribution of trace elements in the Baltic Sea sediments
R:12		G. Witt <i>et al.</i>		Occurrence and distribution of polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF) in sediments of the western Baltic Sea

**THEME SESSION ON THE SHELF EDGE CURRENT AND ITS EFFECTS ON FISH STOCKS
(INCLUDING RESULTS FROM EC-SEFOS) (S)**

S:1	Poster	N. Hillgruber <i>et al.</i>	<i>et</i>	Food and feeding selectivity of blue whiting (<i>Micromesistius poutassou</i>) larvae from Porcupine Bank, off West Ireland
S:2		M. Kloppmann <i>et al.</i>	<i>et</i>	Distribution of blue whiting (<i>Micromesistius poutassou</i> Gill 1864) larvae along the western Iberian coast. Results from a joint research cruise to Spanish and Portuguese waters
S:3	Poster	M. Kloppmann <i>et al.</i>	<i>et</i>	The vertical migration behaviour of blue whiting (<i>Micromesistius poutassou</i> Gill 1864) larvae and their drift at the western slope of Porcupine Bank - results from a drift/patch study
S:4				Not received
S:5		K.F. Drinkwater <i>et al.</i>	<i>et</i>	Entrainment of redfish larvae off the Scotian Shelf
S:6		J.J. Bisagni and P.C. Smith		Eddy-induced flow of Scotian Shelf water across Northeast Channel, Gulf of Maine
S:7	Poster	L. Motos <i>et al.</i>		Hake spawning in the Bay of Biscay during winter 1995
S:8		J. Bartsch <i>et al.</i>		A numerical model system of the region around the Iberian Peninsula: model validation and application to hake larvae drift in the Bay of Biscay
S:9	Poster	P. Lucio		Adult hake distribution in the Bay of Biscay from 1992 to 1995
S:10	Poster	A. Uriarte and P. Lucio	P.	Results of tagging survey of mackerel in the Bay of Biscay in 1994
S:11				Not received
S:12	Poster	F. Sánchez and J. Gil	J.	Incidence of the poleward current and vertical motion in hake recruitment
S:13		C.. Porteiro <i>et al.</i>		Hydrography features and dynamics of blue whiting, mackerel and horse mackerel in the Bay of Biscay. 1994-1996. A multidisciplinary study on SEFOS
S:14		P. Carrera <i>et al.</i>		Does blue whiting migrate from Porcupine bank to Bay of Biscay after the spawning season?
S:15	Poster	C. Porteiro <i>et al.</i>		Depth and spatial distribution of blue whiting juveniles in Bay of Biscay
S:16	Poster	L. Valdes <i>et al.</i>		Distribution of blue whiting, mackerel and horse mackerel eggs and larvae in relationship with geostrophic circulation in the Bay of Biscay and West coast of Iberian Peninsula
S:17	Poster	F.J. Pereiro <i>et al.</i>		Distribution of hake in European Atlantic waters
S:18	Poster	A. Lavin <i>et al.</i>		Hydrographic variability in Bay of Biscay Shelf and Slope waters in spring 1994, 1995, 1996 and relation with biological drifting material
S:19	Poster	K. Cook <i>et al.</i>		The distribution of blue whiting (<i>Micromesistius poutassou</i>) larvae to the west of the British Isles in March/April 1996
S:20	Poster	D.V.P. Conway <i>et al.</i>	<i>et</i>	Feeding of mackerel larvae (<i>Scomber scombrus</i>) to the west of the British Isles and the incidence of piscivory and coprophagy
S:21		D.G. Reid <i>et al.</i>		Hydrography and mackerel distribution on the shelf edge west of the Norwegian Deep

S:22		M.C. Bailey and M.R. Heath	Spatial variability in the growth rate of blue whiting larvae at the shelf edge west of the UK
S:23		N. Bez <i>et al.</i>	Individual based statistics for a spatially distributed population, with an application on mackerel
S:24			Withdrawn
S:25	Poster	M. Kloppmann	The effect of currents and hydrography on the distribution of blue whiting eggs and larvae on Porcupine Bank
S:26		F. Borges <i>et al.</i>	Changes on horse mackerel (<i>Trachurus trachurus</i>) catch distribution in the Northeast Atlantic
S:27	Poster	I. Meneses	Distribution of blue whiting larvae off the Portuguese coast by length and age
S:28		A. Farinha and P.C. Lopes	Horizontal and vertical distribution of planktonic phases of <i>Micromesistius poutassou</i> (Risso), <i>Trachurus trachurus</i> (L.), and <i>Sardina pilchardus</i> (Walbaum), off Northwestern Portuguese coast
S:29			Withdrawn
S:30		T. Monstad <i>et al.</i>	Occurrence of blue whiting in trawl catches during surveys from Portugal to Faroe Islands, 1979-1995
S:31		E. Svendsen <i>et al.</i>	Variability of the drift of blue whiting larvae and its possible importance for recruitment
S:32		N. Bez <i>et al.</i>	Analysis of the early life history stages of mackerel. 1989 North East Atlantic
S:33		M. Walsh <i>et al.</i>	The relationship between the location of mackerel spawning, larval drift and recruit distributions 1977 to 1995: A modelling study
S:34		A. Jorge da Silva and J. Vitorina	Current measurements over the upper slope off the west coast of Portugal, 1994-1995
S:35	Poster	A. Jorge da Silva	The slope current off the west Iberian coast in autumn
S:36			Not received
S:37	Poster	C. Mohn and J. Bartsch	The circulation and hydrographic structure near the European shelf in the Porcupine Bank and Porcupine Seabight area
S:38			Withdrawn
S:39	Poster	C.D. Maravelias and D.G. Reid	Generalized additive modelling of the pelagic ecosystem of the northern North Sea in mid-summer: the prespawning herring- <i>Calanus</i> -Shelf Edge current interaction
S:40		J. Bartsch <i>et al.</i>	A numerical model of the dispersion of blue whiting larvae (<i>Micromesistius poutassou</i>) in the eastern North Atlantic
S:41	Poster	M.I. Bertolotti <i>et al.</i>	Influence of the shelf-break front on shellfish and fish stocks off Argentina
S:42			Not received
S:43		A. Farinha and P. do Carmo Lopes	Distribution and abundance of the ichthyoplankton from the Western Coast of the Iberian Peninsula
S:44	Poster	L. Motos <i>et al.</i>	The spawning environment of the Bay of Biscay anchovy
S:45		A. Borja <i>et al.</i>	Influence of the wind regime on the recruitment of the Bay of Biscay anchovy (<i>Engraulis encrasicolus</i>) from 1967 to 1995
S:46		K.G. Foote and M.	Bathymetric conformal variography of the spawning stock of

		Ostrowski	Northern blue whiting
S:47	Poster	S.H. Coombs	The vertical distribution of eggs and larvae of mackerel (<i>Scomber scombrus</i>)
S:48	Poster	S.H. Coombs	The vertical distribution of eggs and larvae of horse mackerel (<i>Trachurus trachurus</i>)

**THEME SESSION ON ANADROMOUS AND CATADROMOUS FISH RESTORATION
PROGRAMMES: A TIME FOR EVALUATION (T)**

T:1	R.A. St. Pierre	A recipe for success: Anadromous fish restoration in the Susquehanna River, USA
T:2	E.T. Baum <i>et al.</i>	Utilization of wild Atlantic salmon parr as captive broodstock in USA restoration programmes
T:3	F. Whoriskey <i>et al.</i>	Integration of satellite reared parr to the Upsalquitch River, New Brunswick
T:4	I.C. Russell <i>et al.</i>	Evaluation of stocking programme to enhance spring salmon runs on the River Test, southern England
T:5	W.G. Cazemier <i>et al.</i>	Preliminary evaluation of the restoration programme "Salmon 2000", part of the Rhine Action Programme, 1987-1996
T:6		Withdrawn
T:7		Withdrawn
T:8	L. Stolte and J.F. McKeon	Will Atlantic salmon restoration enter the 21st Century? Merrimack River, USA
T:9	G. Rasmussen <i>et al.</i>	Mortality of sea trout (<i>Salmo trutta</i> L.) and Atlantic salmon (<i>S. salar</i> L.) smolts during seaward migrations through rivers and lakes in Denmark
T:10	G. Holdensgaard <i>et al.</i>	Study on five different (non native) Atlantic salmon strains in first and second part of a salmon rehabilitation project in River Gudenå - Denmark
T:11	D.H. Secor and E.D. Houde	Use of larval stocking in restoration of anadromous fishes with pelagic larval stages
T:12	M. Luczynski <i>et al.</i>	Biochemical genetic characteristics of the farmed Atlantic salmon (<i>Salmo salar</i>) stock developed in Poland for restoration purposes
T:13	R. Bartel	Preliminary results of restoration of Atlantic salmon (<i>Salmo salar</i> L.) in Poland
T:14	F. Travade <i>et al.</i>	Experience back on four fishpasses recently built on Garonne and Dordogne rivers (southwest France)
T:15		Not received
T:16	J. Waldman and I. Wirgin	Restoration of populations of <i>Acipenser oxyrinchus</i> along the Atlantic and Gulf of Mexico coasts
T:17	D.A. Scruton <i>et al.</i>	A decade of salmonid habitat improvement and restoration in Newfoundland, Canada: What have we learned?
T:18	B. Bousquet and A. Marty	Enhancement of salmon population in the River Adour: an impossible task?
T:19	F. Gayou and M. Roguet	Salmon restoration in the Rivers Garonne and Dordogne (South-West France)
T:20		Not received
T:21	G. Blanco <i>et al.</i>	The use of genetic tag in the evaluation of fish restoration programmes
T:22		Not received
T:23		Not received

T:24	H. Sægrov and O.T. Skilbrei	May stocking programs affect the predator stocks and decrease the survival of the wild Atlantic salmon juveniles?
T:25	M. Kangur	The salmon stocks in Estonia: past, present and future

JOINT SESSION ON INTERACTIONS BETWEEN PHYSICS AND FISH IN THE BALTIC (C+J)

C+J:1	W. Fennel and T. Neumann	The mesoscale variability of nutrients and plankton as seen in a coupled model
C+J:2	M.A. St. John and H.H. Hinrichsen	Oxygen in the deep basins of the Baltic Sea: The influence of winter mixing
C+J:3	J. Tomkiewicz <i>et al.</i>	Influence of salinity, oxygen and temperature on spawning aggregation and spatial distribution of Baltic cod (<i>Gadus morhua</i> L.)
C+J:4	B.R. MacKenzie <i>et al.</i>	Oceanographic processes influencing seasonal and interannual variability in cod spawning habitat in the eastern Baltic Sea
C+J:5	F. Fuchs	Modelling of interaction in environment and cod using a Neural Network
C+J:6	R. Oeberst	Is the hydrographical situation suited as criterion for the stratification of acoustic surveys in the western Baltic Sea?
C+J:7	H.H. Hinrichsen and K. Wieland	Reproduction volume of Baltic cod in the Bornholm Basin. Estimate from single point measurements
C+J:8	V.N. Feldmand <i>et al.</i>	Salinity/oxygen regime of water in the South-Eastern Baltic Proper in 1992-1996 and its impact on cod spawning conditions and distribution
C+J:9	O. Bagge	Inflows to the Baltic, predation on cod eggs and year class strength in Sub-divisions 25-28

ACFM - ADVISORY COMMITTEE ON FISHERY MANAGEMENT

ACFM:1 Agenda, ACFM Consultations at the 1996 Annual Science Conference

ASSESSMENT WORKING GROUP REPORTS - 1996

Assess:1 Working Group on the Assessment of Northern Shelf Demersal Stocks
Assess:2 The Working Group on Multispecies Assessment of Baltic Fish
Assess:3 Multispecies Assessment Working Group
Assess:4 Arctic Fisheries Working Group
Assess:5 Working Group on the Assessment of Southern Shelf Demersal Stocks
Assess:6 Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assess:7 Working Group on the Assessment of Mackerel, Horse Mackerel, Sardine and Anchovy
Assess:8 Study Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Assess:9 Atlanto-Scandian Herring, Capelin and Blue Whiting Assessment Working Group
Assess:10 Herring Assessment Working Group for the Area South of 62°N
Assess:11 Working Group on North Atlantic Salmon
Assess:12 Baltic Salmon and Trout Assessment Working Group
Assess:13 Baltic Fisheries Assessment Working Group
Assess:14 Northern Pelagic and Blue Whiting Fisheries Working Group
Assess:15 North-Western Working Group
Assess:16 Multispecies Assessment Working Group
Assess:17 Pandalus Assessment Working Group
Assess:18 Study Group on the Assessment of Other Fish and Shellfish Species
Assess:19 Study Group on the Management Performance of Individual Transferable Quota (ITQ) Systems
Assess:20 Comprehensive Fishery Evaluation Working Group

ACME - ADVISORY COMMITTEE ON THE MARINE ENVIRONMENT

ACME:1 Agenda, ACME Consultations at the 1996 Annual Science Conference

ENV - ENVIRONMENT-RELATED WORKING GROUP REPORTS

Env:1 Withdrawn

Env:2 Marine Chemistry Working Group

Env:3 Joint Meeting of the Working Group on Marine Sediments in Relation to Pollution and
the Working Group on Biological Effects of Contaminants

Env:4 Working Group on Marine Sediments in Relation to Pollution
Ref. E

Env:5 Working Group on Biological Effects of Contaminants
Ref. E

Env:6 Joint Meeting of the Working Group on Environmental Assessment and Monitoring
Strategies and the Working Group on Statistical Aspects of Environmental Monitoring
Ref. D, E

Env:7 Working Group on Environmental Assessment and Monitoring Strategies
Ref. E

Env:8 Working Group on Introductions and Transfers of Marine Organisms
Ref. E, F

JOINT MEETING ACFM/ACME

Assess/Env:1 Working Group on Ecosystem Effects of Fishing Activities