



1995
ICES ANNUAL SCIENCE
CONFERENCE

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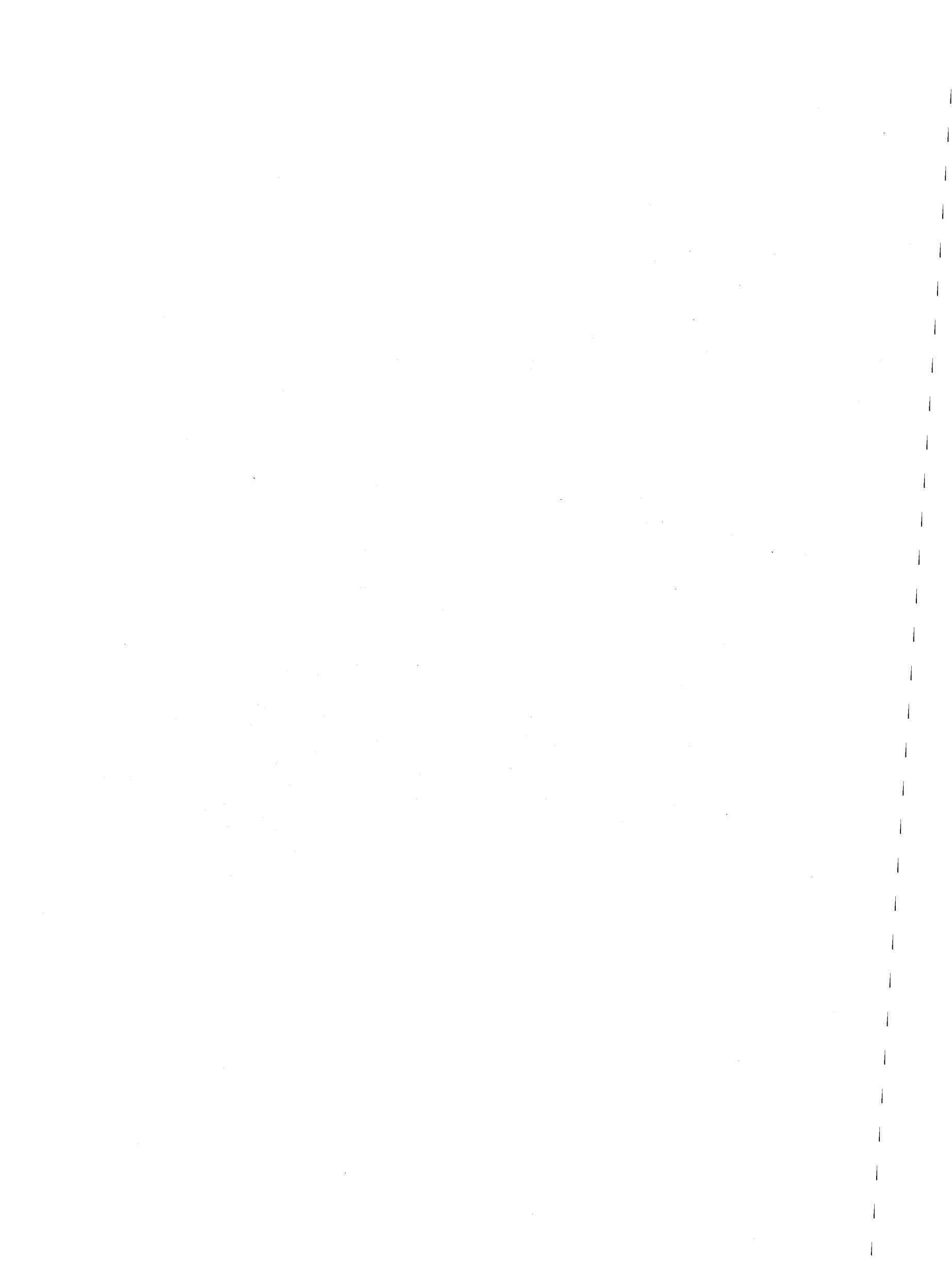
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Requests for additional copies of documents when supplies run out

Authors have been requested to provide 200 copies of their papers to the 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 in the Book of 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 co-operating organisations
- Gen:2 ICES activities in 1994/1995
- Gen:3 Election of standing scientific committee Chairmen at 1995 Annual Science Conference (83rd Statutory Meeting) (E+F)
- Gen:4 Report of the Mid-Term Meeting of the Consultative Committee, ICES Headquarters 1-2 June 1995
Ref. A + Del
- Gen:5 Advance Release of Tables, 1-6 of ICES Fisheries Statistics, Vol. 79, 1994
- Gen:6 1994/1995 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 ICES role in Environmental Monitoring
- Gen:8 Convenors Reports of ICES Symposia

(E+F) = in English and French

DEL - DELEGATES DOCUMENTS

- Del:1* Audited Accounts for Financial Year 1993/1994
- Del:2* Progress Report on Administration for the year 1 November 1994 to 31 October 1995
- Del:3* Co-operation with Other International Organisations: Working Relationships and Financial Arrangements
- Del:4* Estimated Accounts for Financial Year 1994/1995 (E + F)
- Del:5* Draft Budget for Financial Year 1995/1996 (E + F)
- Del:6* Draft Forecast Budget for Financial Year 1996/1997 (E + F)
- Del:7* Elections and Appointments by the Council at the 1995 Annual Science Conference (83rd Statutory Meeting)
- Del:8* 1996, 1997 Annual Science Conferences (84th and 85th Statutory Meetings) and subsequent Conferences
- Del:9* Memorandum of Understanding between OSPARCOM and ICES
- Del:10* Memorandum of Understanding between FAO and ICES
- Del:11* Criteria governing acceptance for Council membership and scientific observer status
- Del:12* Application by Greece (Institute of Marine Biology of Crete) for scientific observer status
- Del:13* Report of the Bureau Working Group on the Structure of ICES
- Del:14 Fourth International Conference on the Protection of the North Sea
Ref A
- Del:15 International Conferences and Conventions: the need for a comprehensive ICES response
Ref A mechanism
- Del:16* Topics for Delegates 'Extra Session'
- Del:17 Enhanced information and publicity about ICES
Ref A
- Del:18 ICES Centenary, 2002: Progress report
Ref A
- Del:19* Rules of Procedure: Revisions to reflect changes in ICES nomenclature
- Del:20* Cost recovery from ICES customers

* For Delegates only

(E+F) in English and French

FINANCE COMMITTEE

FI:1* Agenda for the Finance Committee

PUB - PUBLICATIONS COMMITTEE

Pub:1 Agenda for the Publications Committee
Pub:2 Review of ICES Publication Activities in 1994/1995
Pub:3 Sale of ICES Publications during the Last Three Years
Pub:4 *ICES Journal of Marine Science*: Editors' Report for 1994/1995
Pub:5 Academic Press Publisher's Report for 1995: *ICES Journal of Marine Science*
Pub:6 Keeping the Minutes of Science (Academic Press)
Pub:7 Scope and Area of Interest of the *ICES Journal of Marine Science*
Pub:8 *ICES Cooperative Research Report Series*: Editor's Report for 1994/1995

REFERENCE PAPERS: E:18, F:1, L:1

A - CONSULTATIVE COMMITTEE

- A:1 Agenda for the Consultative Committee
- A:2 Minutes of ACFM Meeting, ICES Headquarters, 25 October - 2 November 1994
- A:3 Minutes of ACFM Meeting, ICES Headquarters, 16 - 24 May 1995
- A:4 Minutes of ACME Meeting, ICES Headquarters, 26- 31 May 1995
- A:5 ICES/GLOBEC Cod and Climate Data Base Workshop
Ref C,G,H,J,L Postponed until 15-16 November 1995
- A:6 Report of the *Ad Hoc* Group on the ICES Secretariat Databases
- A:7 Report of the Cod and Climate Backward-Facing Workshop
Ref C,G,H,J,L
- A:8 Report of the Working Group on Cod and Climate Change
Ref C,G,H,J,L
- A:9 Compendium of Draft Recommendations

B - FISH CAPTURE COMMITTEE

B:1 Ref. Assess		Report of the Study Group on Unaccounted Mortality in Fisheries
B:2		Report of the Working Group on Fishing Technology and Fish Behaviour
B:2 (annex) No separate report		Report of the Sub-Group on Selectivity Methods
B:3		Report of the Study Group on Target Strength Methodology
B:4		Report of the Working Group on Fisheries Acoustics Science and Technology
B:5 Poster	N. Lowry <i>et al.</i>	Selectivity in Baltic cod trawls with square mesh cod-end windows
B:6 Poster	N. Lowry	The effect of twine size on bottom trawl cod-end selectivity
B:7		Withdrawn
B:8	P. Suuronen <i>et al.</i>	Skin injury and mortality of Baltic cod escaping from trawl codends equipped with exit windows
B:9 Ref. H	E.J. Simmonds	Survey design and effort allocation: a synthesis of choices and decisions for an acoustic survey. North Sea herring is used as an example.
B:10 Ref G, H	Y. Vérin	Analysis of the IBTS trawl behaviours: possible enhanced standardization of trawling conditions
B:11 Ref. G, K Poster	G. Thorsteinsson	Survival of shrimp and small fish in the inshore shrimp fishery at Iceland
B:12 Ref. H	I. Huse <i>et al.</i>	Day/night variations in acoustic density measurements of wintering Norwegian spring-spawning herring
B:13 Ref. G	I. Huse	Day/night, illumination and current modulated variation in the behaviour of coastal cod
B:14 Ref. G, H, J Poster	A. Engås <i>et al.</i>	The MultiSampler: a system for remotely opening and closing multiple codends on a sampling trawl
B:15 Ref. G	S. Løkkeborg and A.Vold Soldal	Vulnerability to predation of small cod (<i>Gadus morhua</i>) that escape from a trawl
B:16 Ref. G	O. Rune Godø <i>et al.</i>	Catfish - king of the sea

B:17 Ref G	J. Boje and Hovgård	Selectivity in gillnets in the Greenland halibut fishery at Greenland
B:18 Ref. D	R. Holst and T. Moth-Poulsen	Statistical and numerical methods for gillnet selectivity analysis
B:19 Ref. G	V. Thorsteinsson	Tagging experiments using conventional tags and electronic data storage tags for the observations of migration, homing and habitat choice in the Icelandic spawning stock of cod
B:20 Ref. K	G.Y. Conan <i>et al.</i>	Trials for attracting and catching early benthic stages of <i>Homarus americanus</i> by electric fishing
B:21	W. Moderhak	On properties of codend meshes differently oriented with respect to direction of motion
B:22	Z. Ziembo	Model tests of codends in turbulent velocity field (equations of drag and normal force)
B:23 Ref. J	V.M. Vorobyov <i>et al.</i>	Some selected problems of accuracy of sprat and herring biomass acoustic estimates in the Baltic Sea (based on echosurvey results in 1992-1994)
B:24	F. Cardador and M. Azevedo	A first attempt to compare fishing efficiency of three bottom trawl nets used in the Portuguese surveys
B:25 Ref. G Poster	B. R. McCallum and S.J. Walsh	Survey trawl standardization used in groundfish surveys
B:26	S.J. Walsh and B.R. McCallum	Survey trawl mensuration using acoustic trawl instrumentation
B:27		Withdrawn
B:28	R.D. Galbraith and P.A.M. Stewart	Fishing effort: A gear technologist's perspective
B:29	G.I. Sangster and M. Breen	A catch comparison study of single and twin trawl gears towed by a 550 hp commercial vessel
B:30 Poster	J.H.B. Robertson and R.J. Fryer	A comparison of the twin trawl and codend methods of selectivity measurement
B:31 Poster	J.H.B. Robertson and R.J. Kynoch	Haddock selectivity in codends of six different diamond mesh sizes from 90 to 120 mm
B:32 Poster	F.G. O'Neill and R.J. Kunoch	The effects of cover mesh size and codend catch size on codend selectivity
B:33 Poster	B Breen and G.I. Sangster	A revised method of assessing skin damage to fish escaping from codends
B:34 Poster	H. Özbilgin and G. Holtrop	Effect of the sub-sampling procedure on the accuracy of the estimates of selectivity parameters from selectivity experiments
B:35 Poster	J.H.B. Robertson and N.W. Lowry	Improvements in designs of cod-end covers

B:36	S.J. de Groot	On the penetration of the beam trawl into the sea bed
B:37 Poster	D.L. Erickson <i>et al.</i>	Effect of catch size on the escapement of Walleye Pollock from pelagic trawls

REFERENCE PAPERS: H:7, H:8, H:9, N:23

C - HYDROGRAPHY COMMITTEE

C:1		Report of the Working Group on Oceanic Hydrography
C:2		Report of the Working Group on Marine Data Management
C:3 Ref. L		Report of the Working Group on Shelf Seas Oceanography
C:4		Report of the Study Group on SKAGEX
C:5 paper or poster	A. Jorge da Silva <i>et al.</i>	CTD observations along the European shelf edge comparison of data processing algorithms
C:6	H-J Lenhart and T. Pohlmann	The ICES-Boxes approach in relation to results of a North Sea circulation model
C:7 paper or poster	K.F. Drinkwater <i>et al.</i>	Seasonal variability of the waters off West Greenland
C:8	R. Luff and T. Pohlmann	Calculation of the water exchange times in the ICES-boxes using a half-life time approach
C:9 Ref. E	Wolfgang Matthäus	Natural variations and human impacts reflected in long-term changes in the Baltic deep water
C:10	W.R. Turrell <i>et al.</i>	A quasi synoptic of the European Continental Shelf edge during the SEFOS project
C:11	P.A. Gillibrand <i>et al.</i>	Observations and modelling of the results of low-level hydrocarbon discharges in the North Sea
C:12 Ref. G, H	T. Gammelsrød <i>et al.</i>	The benguela Niño 1995 observed in Angolan waters
C:13		Withdrawn
C:14 Ref. L	K.F. Drinkwater and G.C. Harding	The effects of the Hudson Strait outflow on the biology of the Labrador Shelf

REFERENCE PAPERS: D:3, D:6, H:26, H:27, J:6, K:21 (poster), K:31, L:2, L:11, L:16, L:25, L:26, L:28, M:20

D - STATISTICS COMMITTEE

D:1		Statistics Committee Liaison Working Group
D:2		Working Group on Statistical Aspects of Environmental Monitoring
Ref. Env + E		
D:3		A Symposium Planning Group on "The Role of Physical and Biological Processes in the Dynamics of Marine Populations"
Ref. A, C L		
D:4	ICES Fishery Secretary	Progress Report 1994/1995
D:5	P. Petitgas	The nugget effect in the 1D transitive method applied to acoustic surveys of fish stocks
D:6	N. Bez <i>et al.</i>	On the relation between fish density and sea surface temperature, application to mackerel egg density
Ref. C, H, L		
D:7	M. Pennington	Estimating the mean and variance from highly skewed marine survey data
D:8	V. Christensen	A multispecies virtual population analysis incorporating information of size and age
D:9	C-L Chen <i>et al.</i>	An efficient design for index-removal and change-in-ratio estimation of population size and related parameters
Ref. K		
D:10	G.T. Evans and J.M. Hoenig	Detecting differences among several readers of fish ages
Ref. G, H, K, M		
D:11	H. de Pontual and H. Troadec	Results and interest of a survey to assess age reading activity within different laboratories
Ref. G, H, J, M		
D:12	R.M. Cook	A simple model for the analysis of research vessel data to determine stock trends
D:13	T.I. Bulgakova <i>et al.</i>	Some special algorithms for the Barents Sea fish stomach content database processing
Ref. G, H, K		
D:14	T.I. Bulgakova <i>et al.</i>	The results of multispecies analysis for the Barents Sea fish community (cod, capelin, shrimp and herring)
Ref. G, H, K		
D:15	T.I. Bulgakova and D.A. Vasilyev	The relationship between the initial meal weight and weight in stomach for various regimes of nutrition
Ref. G, H, J, M		
D:16	R.J. Conser	A fresh look at surplus production modelling as a pragmatic assessment tool

E - MARINE ENVIRONMENTAL QUALITY COMMITTEE

E:1 Ref. L		Report of the Steering Group on Quality Assurance of Biological Measurements in the Baltic Sea
E:2		Report Steering Group on Quality Assurance of Chemical Measurements in the Baltic Sea
E:3		Report of the Steering Group for the Coordination of the Baseline Study of Contaminants in Baltic Sea Sediments
E:4		Report of the Working Group on the Baltic Marine Environment
E:5		Report of the Working Group on the Effects of Extraction of Marine Sediments on the Marine Ecosystem
E:6	G. Witt	Polycyclic aromatic hydrocarbons (PAHs) in sediments of the Baltic Sea and the German coastal waters
E:7	U. Lange <i>et al.</i>	Towards application of EROD-activity in dab (<i>Limanda limanda</i>) in biological effect monitoring of the North Sea: A model for the prediction of the basal EROD-activity levels
E:8 Poster	S. Garthe	How much discards and offal do seabirds consume in the North Sea?
E:9	D. Dannenberger	Selected chlorinated microcontaminants in Baltic waters, 1992 to 1994
E:10	B.G. Alexandrov and G.G. Minicheva	Theoretical basis for managing water quality in coastal areas with the help of biofouling
E:11	G.G. Minicheva	Laws governing the interactions of the quality of the marine environment and structural-functional organization of plan communities in coastal ecosystems
E:12	M.D. Nicholson <i>et al.</i>	Designing monitoring programmes for detecting trends in contaminants in fish and shellfish
E:13 Ref. K	S.M. Dyekjær <i>et al.</i>	Mussel dredging and effects on the marine environment
E:14 Ref. G, J	M. St. John <i>et al.</i>	Comparison of chlorobiphenyl congener and pesticide concentrations in cod tissues in relation to their lipid class composition
E:15 Oral presentation		ICES/HELCOM Workshop on Quality Assurance and Intercomparison of Pelagic Biological Measurements in the Baltic Sea
E:16	B. Draganik <i>et al.</i>	Heavy metals in adults and fry of the Baltic viviparous eelpout (<i>Zoarces viviparus</i> (L))

F - MARICULTURE COMMITTEE

F:1		ICES Identification Leaflets for Diseases and Parasites of Fish and Shellfish. Editors Report 1994/1995.
F:2		Report of the Working Group on the Application of Genetics in Fisheries and Mariculture
F:3		Report of the Working Group on Pathology and Diseases of Marine Organisms
F:3 (annex) No separate report		Report of the Sub-Group on Fish Disease Data Submission
F:4		Report of the Working Group on Mass Rearing of Juvenile Marine Fish
F:5		Report of the Workshop on Principles and Practical Measures for the Interaction of Mariculture and Fisheries in Coastal Area Planning and Management
F:6 Ref. K		Report of the Workshop on Modelling Environmental Interactions in Mariculture
F:7 Ref. E		Report of the Working Group on Environmental Interactions of Mariculture
F:8 Poster	J. Iglesias and G. Rodrigues-Ojea	Utilization of alizarin complexone for immersion marking of otoliths of turbot (<i>Scophthalmus maximus</i> L.) embryos and larvae: dosage and persistence
F:9 Poster	J.B. Peleteiro and J.M.R. Alvarino	Reproductive efficiency of turbot (<i>Scophthalmus maximus</i> L.) females treated with LHRHa
F:10 Poster	J.H. Robin and R. Wilson	Utilisation precoce d'Artemia enrichis par les larves de turbot (<i>Scophthalmus maximus</i>)
F:11	T. Lang <i>et al.</i>	BMB/ICES-Going workshop Fish diseases and parasites in the Baltic Sea - A preliminary report
F:12 Ref. K	E.V. Kholodkovskaya	Influence of the environment on the fauna of mussel parasites in the Black Sea
F:13	B.R. Howell <i>et al</i>	The effect of diet quality on the low-temperature tolerance of juvenile sole, <i>Solea solea</i> (L)
F:14 Ref. K	J.M Goncalves <i>et al</i>	The Azorean adult squid, <i>Loligo forbesi</i> (Cephalopoda: Loliginidae) in captivity: transport, handling, maintenance, tagging and survival
F:15	D.A. Smail	Isolation and identification of viral haemorrhagic septicaemia (VHS) virus from North Sea cod (<i>Gadhus morhua</i> L.)
F:16		Report of Activity 1995

F:17	R.H. Cook and W. Watson- Wright	Marine Fish Culture Initiatives in Atlantic Canada
F:18		Withdrawn

REFERENCE PAPERS: G:36 (poster), H:8, H:25, K:30, K:41, M:24

DEMERSAL FISH COMMITTEE

G:1 Ref. Assess		Report of the Study Group on Redfish Stocks
G:2 Ref. Assess		Report of the Saithe Study Group
G:3 Ref. Assess		Report of the Study Group on Elasmobranch Fishes
G:4 Ref. L Assess		Report of the Workshop on Sandeel Otolith Analysis
G:5 Ref Assess		Report of the Beam Trawl Survey Study Group
G:6 Ref. D, H	J.D.M. Gordon <i>et al.</i>	Age determination of juvenile roundnose grenadier, <i>Coryphaenoides rupestris</i> , a deep-water macrourid fish: a preliminary report
G:7	U. Skúladóttir and G.S. Bragason	The occurrence of 0-group cod and haddock as by-catch in the inshore shrimp surveys in Icelandic waters 1978-1994
G:8		Withdrawn
G:9	M.J. Figueiredo <i>et al.</i>	Distribution, abundance and size composition of blackmouth catshark (<i>Galeus melastomus</i>) and small spotted dogfish (<i>Scyliorhinus canicula</i>) on the slope of the Portuguese South and Southern West Coasts
G:10	I. Figueiredo <i>et al.</i>	Distribution, abundance and size composition of blackbelly rosefish (<i>Helicolenus dactylopterus</i>) and Mediterranean Redfish (<i>Hoplostethus mediterraneus</i>) on the slope of the Portuguese South and Southern West Coasts
G:11	O.R. Godø and A. Totland	Migratory behaviour of reared Norwegian coastal cod and north-east Arctic cod
G:12	A. Woll <i>et al.</i>	The development of a new gillnet fishery for anglerfish (<i>Lophius piscatorius</i>) in Norwegian waters; biological parameters, selectivity in size and sex ratios for gillnets with 300 and 360 mm mesh sizes
G:13 Poster	T. Jakobsen and K. Sunnanå	The revival of the Northeast Arctic cod stock - an act of cod or man?
G:14 Ref. H	O. Moura <i>et al.</i>	A first approach to the definition of deep-sea species communities from the southern Portuguese coast
G:15	G. Marteinsdottir and G. Petursdottir	Spatial and temporal variation in reproduction of Icelandic cod at Selvogsbanki and nearby coastal areas

- G:16 M. Giæver *et al.* Genetic variability at isozyme loci in haddock (*Melanogrammus aeglefinus*) from Norwegian fjord and coastal waters
- G:17 A. Silva Feeding habits of John Dory, *Zeus faber* (Linnaeus, 1758) off the Portuguese continental coast (ICES Div. IXa)
- G:18 Withdrawn
- G:19 F. Cardador and G. Pestana Abundance and distribution pattern of rock fish (*Helicolenus dactylopterus*) in the Portuguese continental waters (ICES, Div. IXa)
- G:20 F. Cardador Factors influencing the distribution and abundance of hake (*Merluccius merluccius*) in the Portuguese waters (ICES, Div. IXa) based on groundfish surveys data
- G:21 A.V. Dolgov Yearly diets and consumption of some commercial species by cod from the Barents Sea in 1984-1993
Ref. H, K, L
- G:22 N.A. Isaev and M.V. Kovtsova Status of cod (*Gadus morhua morhua* L.) stock in the coastal waters of the Kola Peninsula due to data of research in 1993-1994
- G:23 V.N. Shibanov *et al.* Peculiarities of formation of oceanic *S. mentella* spawning aggregations in the Irminger Sea
- G:24 H. Hovgaard Estimating IBTS (February) indices for cod in Skagerrak and Kattegat by use of modal separation techniques
- G:25 T. Lang *et al.* Changes in the sex ratio of North Sea dab (*Limanda limanda*) in the period 1981-1995
Ref. E
- G:26 L.T. Kell and T.K. Stokes FIFI - a framework for modelling management under uncertainty
Ref. D
- G:27 P.J. Bromley and L.T. Kell Vertical migration patterns and spatial distribution of pelagic 0-group gadoids (cod, haddock, whiting, and Norway pout) in the North Sea
Ref. L
- G:28 P.J. Bromley Feeding in cod (*Gadus morhua* L.) and whiting (*Merlangius merlangus* L.) in the southern Bight of the North Sea in autumn
- G:29 P.J. Bromley *et al.* Feeding interactions and the development of food webs in pelagic 0-group gadoids (cod, haddock, whiting, saithe and Norway pout) in the northern North Sea
Ref. H, L
- G:30 S.J. Hall *et al.* The movements of haddock: An analysis of tagging data
- G:31 Preliminary Report of the International 0-groups Fish Survey in the Barents Sea and Adjacent waters in August/September 1994
Ref. H
- G:32 T.I. Bulgakova *et al.* Seasonal and yearly dynamics of the Barents Sea cod rations
Ref. D, H, K

G:33 Ref. K Poster	V. de Barros Neto.	Stock assessment for demersal fish and shrimp in Angolan waters with the survey designer
G:34	L.J. Constança	Evaluation of trawl surveys in Angolan waters
G:35 Ref. L	P. Solemdal and O.S. Kjesbu	Egg mortality in cod of different age - an experimental study
G:36 Ref F Poster	I. Fjallstein <i>et al.</i>	Enhancement of Atlantic cod (<i>Gadus morhua</i> L.) on Faroe Bank
G:37	H. Mosegaard and M. St. John	Otolith micro-structure pattern as an indicator of environmental and fish condition of Baltic cod at settling
G:38	P. Santos	Growth, mortality and maturation of <i>Lepidorhombus boscii</i> in Portuguese waters
G:39	J.V. Magnússon and G. Jóhannesson	Distribution and abundance of 0-group redfish in the Irminger Sea and at East Greenland in 1970-1994 and its relation to <i>Sebastes marinus</i> abundance index from the Icelandic groundfish survey
G:40	J. Magnússon and T. Sigurdsson	On the distribution and biology of the Oceanic Redfish in March 1995
G:41	P. Reynisson <i>et al.</i>	Diurnal variations of the echo intensity and some biological observations on redfish in the Irminger Sea (preliminary results)
G:42	J. Magnusson and S. Sveinbjörnsson	Report on the 0-Group fish survey in Iceland and East Greenland waters, August 1995

REFERENCE PAPERS: B:10, B:11, B:13, B:14, B:15, B:16, B:17, B:19, B:25 (poster), B:27, C:12, D:10, D:11, D:13, D:14, D:15, E:14, F:18, H:26, H:27, H:28, L:11, L:14, L:16

H - PELAGIC FISH COMMITTEE

H:1		Report of the Workshop on Mackerel Otolith Reading
H:2 Ref. J		Report of the Planning Group for Herring Surveys
H:3		Report of the International Bottom Trawl Survey in the North Sea, Skagerrak and Kattegat in 1995: Quarter 1
H:4		Withdrawn
H:5		Withdrawn
H:6	M. Kerstan	Sex ratios and maturation patterns of horse mackerel (<i>Trachurus trachurus</i>) from the NE- and SE-Atlantic and the Indian Ocean - a comparison
H:7 Ref. B	T. Monstad <i>et al.</i>	Investigations on blue whiting in the area west of the British Isles, spring 1995
H:8 Ref. B, F	K. Kvalsvik and D.W. Skagen	Trawl avoidance as a source of error in estimates of the prevalence of <i>Ichthyophonus hoferi</i> disease in Norwegian Spring spawning herring (<i>Clupea harengus</i> L.) in the feeding area
H:9 Ref. B, D	K.G. Foote and I. Røttingen	Acoustic assessment of Norwegian spring spawning herring in the wintering area, December 1994 and January 1995
H:10		Withdrawn
H:11	M. Giæver and J. Mork	Further studies on the genetic population structure of the blue whiting (<i>Micromesistius poutassou</i>) in the north-east parts of the distribution range
H:12	B. Villamor and M. Meixide	Results of the Mackerel (<i>Scomber scombrus</i> L.) otolith exchange programme in 1994
H:13		Withdrawn
H:14 Ref. L, M	E.J. Chesney <i>et al.</i>	Laboratory studies of the microchemistry of otoliths from juvenile menhaden, <i>Brevoortia patronus</i>
H:15	E.J. Simmonds <i>et al.</i>	1994 ICES co-ordinated acoustic survey of ICES divisions IVa IVb and VIa and VIIb
H:16		Withdrawn
H:17	P. Lorance	Herring distribution in the North Sea: changes with age within adult population
H:18 Poster	M.F. Borges and A. Silva	Distribution and migration of horse mackerel

H:19	A.G. Murta <i>et al.</i>	Infestation of the Horse Mackerel (<i>Trachurus trachurus</i> L.) by <i>Anisakis simplex</i> (Rudolphi, 1809) (Nematoda, Ascaridida) Larvae in Portuguese Waters (ICES Div. IXa)
H:20		Withdrawn
H:21	K.R. Patterson and D. Beveridge	Report of the herring larvae surveys in the North Sea in 1994/1995 and adjacent waters
H:22	K.R. Patterson and D. Beveridge	Report of the herring larvae surveys in the North Sea and adjacent waters in 1993/1994
H:23	M. Kerstan and M. Waldron	Age validation in horse mackerel (<i>Trachurus trachurus</i>) otoliths from the NE- and SE-Atlantic ocean
H:24	A. U. Seminario	Preliminary Results of a Tagging Survey of Mackerel in the Bay of Biscay in 1994
H:25 Ref. F	T.A Karaseva <i>et al.</i>	Diagnostics and peculiarities of Ichthyophonosis development in Norwegian spring-spawning herring in 1994-1995
H:26 Ref. C, G, L	W.L. Campos <i>et al.</i>	Ichthyoplankton species assemblages in the southeastern North Sea during winter and spring 1992
H:27 Ref C, G, L	N. Hillgruber <i>et al.</i>	Distribution of blue whiting <i>Micromesistius poutassou</i> larvae in the Porcupine Bank area, in relation to hydrography and the feeding environment
H:28 Ref. G, L	M. Kloppmann <i>et al.</i>	Vertical distribution of dab larvae in the German Bight
H:29	R.L. Stephenson <i>et al.</i>	Use of larval herring surveys in assessment and in understanding herring dynamics in the western Atlantic
H:30	M.R. George	Aspects of the reproductive cycle of southern Pacific jack mackerel, (<i>Trachurus picturatus murphyi</i>) (Nichols, 1920) off the northern coast of Chile
H:31	S.J. Sutherland <i>et al.</i>	Effects of light intensity on the filter-feeding rates of mackerel (<i>Scomber scombrus</i>)
H:32	N'Kosi Luyeye	Distribution and abundance of small pelagic fish off Angolian coast
H:33	A.I. Krysov	Russian Ichthyoplankton investigations of Norwegian spring-spawning herring and their usage in evaluation of stock recruitment

REFERENCE PAPERS: B:9, B:10, B:12, B:14, C:12, D:6, D:10, D:11, D:13, D:14, D:15, G:6, G:14, G:21, G:29, G:32, J:3, L:11, L:16, L:22, L:24, N:19

J - BALTIC FISH COMMITTEE

J:1 Ref. Assess		Report of the Study Group on Assessment-Related Research Activities Relevant to Baltic Fish Resources
J:2		Report of the Study Group on Baltic Cod Age Reading
J:3 Ref. H	T. Raid	Length structure of herring in the Gulf of Finland: spatial and temporal variability
J:4	F. Arrhenius and S. Hansson	Growth and seasonal changes in energy content of young Baltic Sea herring (<i>Clupea harengus</i> L.)
J:5	Ole Bagge <i>et al.</i>	The mean length at age of dab in Århus Bay in relation to oxygen conditions 1953-1994
J:6 Ref. C, E	Ole Bagge <i>et al.</i>	Consumption of food and evacuation in dab (<i>Limanda limanda</i>) related saturation and temperature. Preliminary results.
J:7	K.M. Lehmann and J.R. Nielsen	Acoustic Identification of 0-group Cod in the Baltic Sea
J:8 Poster	T. Baranova and I. Shics	Latvian gillnet cod fishery in 1993-1994
J:9	T. Baranova	The structure of spawning cod stock in the Eastern Baltic during 1972-1995
J:10	G. Kornilovs	Analysis of Baltic herring year-class strength in the Gulf of Riga
J:11		Withdrawn
J:12	M. Fetter and A. Naglis	Length structure of herring stock in the Eastern Baltic
J:13 Poster	D. Uzars	Cannibalism of cod in the Gotland basin of the Baltic Sea
J:14	F. Shvetsov <i>et al.</i>	The structure of Baltic sprat population as a base for the assessment of the stock
J:15 Ref L	K. Horbowa and E. Wlodarczyk	Size-specific vertical distribution and mortality rates of the Baltic cod (<i>Gadus morhua</i> L.) eggs in the Bornholm Basin in 1993 and 1994
J:16	V.N. Feldman <i>et al.</i>	The results of an acoustic survey of sprat and herring abundance in ICES Sub-divisions 26 and 28 in October 1994
J:17 oral presentation	Tenno Dreus	Effect of salt water inflow to the Baltic sea on the spawning conditions of flounder (<i>Platichthys flesus</i> (L.)) in the Gulf of Finland
J:18	R. Grzebielec <i>et al.</i>	Polish hydroacoustic assessment survey of herring, sprat and cod stocks in ICES Sub-divisions 25 and 26 of the Baltic conducted in October 1994

J:19	P. Grønkjær <i>et al.</i>	The influence of essential fatty acids composition on growth of larval cod (<i>Gadus morhua</i> L.) larvae. Preliminary observations.
J:20 Poster	E.M. Karasyova	Ichthyoplankton distribution and abundance in the Eastern Baltic Sea in 1994
J:21 Ref. E	V.N. Feldman <i>et al.</i>	Salinity/oxygen regime of water in South-eastern part of Baltic proper in 1992-1995 and demersal fish living conditions
J:22	J. Gröger and T. Gröhsler	On the discrimination of herring stocks in Baltic Division III
J:23 Ref. L	D. Schnack <i>et al.</i>	Baltic Cod Recruitment Project
J:24	P. Grønkjær <i>et al.</i>	Abundance and Distribution of Larval Cod (<i>Gadhus morhua</i>) in the Bornholm Basin
J:25	P. Ernst <i>et al.</i>	Preliminary results of a comparative cod otolith age reading experiment carried out by age readers from Sweden and Germany
J:26 Oral contribution	B. MacKenzie <i>et al.</i>	Processes affecting growth and survival of cod eggs and larvae in the Eastern Baltic
J:27	K. Hüsey	Preliminary observations of size at settling and food resource utilization of juvenile (0-group) Baltic cod (<i>Gadus morhua</i> L.)
J:28		Withdrawn
J:29	E. Nielsen <i>et al.</i>	Water temperature and wind effects on the abundance of 0-group plaice (<i>Pleuronectes platessa</i>) in the Kattegat
J:30 Poster	J. Netzel and J. Kuczyniski	The abundances of flounder and eel pout in the Gulf of Gdansk area estimated by swept area method

REFERENCE PAPERS: B:14, B:23, D:11, D:15, E:14, H:2, L:11, L:28, M:8

K - SHELLFISH COMMITTEE

K:1 Ref. Assess		Report of the Study Group on the Assessment of Shellfish Stocks in the North Atlantic
K:2		Report of the Study Group on Spatfall and Recruitment in Bivalve Stocks
K:3 Ref. Assess		Report of the Working Group on Cephalopod Fisheries and Life History
K:4 Ref. Assess		Report of the Study Group on Life Histories of Nephrops
K:5 Ref. Assess		Report of the Study Group on Life Histories and Assessment of Pandalus Stocks in the North Atlantic
K:6 Ref. Assess		Report of the Working Group on Crangon Fisheries and Life History
K:7	F. Simon <i>et al.</i>	The small-scale hand-jig squid fishery in the northwestern Iberian peninsula analysed using a model based on short fishery statistics survey
K:8	F. Rocha and A. Guerra	Flexible reproductive patterns in the squids <i>Loligo vulgaris</i> and <i>Loligo forbesi</i>
K:9	M. Rasero <i>et al.</i>	Spawning pattern and fecundity of the ommastrephid squid <i>Todaropsis eblanae</i> in north-eastern Atlantic waters
K:10	M. Rasero and B.G. Castro	Signs of prey-size selectivity in the feeding behaviour of <i>Todaropsis eblanae</i> (cephalopoda: ommastrephidae)
K:11 Poster	M. Aschan <i>et al.</i>	Results of Norwegian and Russian investigations of shrimp (<i>Pandalus borealis</i>) in the Barents Sea and Svalbard area 1994
K:12 Ref. N	H. Bjørke	Norwegian investigations on <i>Gonatus fabricii</i> (Lichtenstein)
K:13	C. Lordan and M.A. Collins	The significance of squid in Irish fisheries
K:14	C. Lordan <i>et al.</i>	Distributions of squid species in the Celtic Sea and Bay of Biscay
K:15		Withdrawn
K:16 Ref. D	A.M. Caramelo	Comparison of VPA results using two methods for conversion of length to age for <i>Nephrops</i> stocks in Portuguese waters (ICES Div. IXa)
K:17	V. Hernández-García and J.J. Castro	Reproductive biology of the subfamily <i>Illicinae</i> , <i>Illex coindetii</i> and <i>Todaropsis eblanae</i> (Cephalopoda: ommastrephidae Steenstrup, 1857) off Northwest Africa

K:18	V. Hernández-García	Cephalopod from CECAF area: fishery and ecology role
K:19		Withdrawn
K:20	K. Gunnarsson and S. Einarsson	Observations on whelk population (<i>Buccinum undatum</i> L. Mollusca; Gastropoda) in Breidifjörður, Western Iceland
K:21 Ref. C Poster	Graham Pierce	Stock assessment with a thermometer: correlations between sea surface temperature and landings of squid (<i>Loligo forbesi</i>) in Scotland
K:22 Poster	G.J Pierce <i>et al.</i>	Correlation analysis of interannual variation in cephalopod landings from European waters
K:23 Poster	P.R. Boyle <i>et al.</i>	Patters in reproduction and recruitment of <i>Loligo forbesi</i> . around the British Isles
K:24 Poster	P.W. Shaw and J.M Murphy	Microsatellite DNA and population genetics of the squid <i>Loligo forbesi</i>
K:25		Withdrawn
K:26	G.G. Thórarinsdóttir and G. Jóhannesson	Shell length-meat weight relationships of ocean quahog, <i>Arctica islandica</i> (Linnaeus), from Icelandic waters
K:27	M. Vecchione	Cephalopod species captured by deepwater exploratory fishing off New England
K:28	M. Vecchione	Evidence for two species of surfclams (<i>Spisula</i>) off the US East coast
K:29	O.V. Gerasimova and S.A. Kuzmin	Some peculiarities of reproduction of king crab (<i>Paralithodes camtschatica</i> (til.)) in the Barents Sea
K:30 Ref. F	V.I. Lisovskaya	Seasonal changes in biochemical composition of mussels in the coastal environment of Odessa Bay
K:31 Ref. C	J. Brown <i>et al.</i>	A physical retention mechanism for <i>Nephrops norvegicus</i> larvae
K:32	A. Moreno and C. Sousa Reis	Seasonal Distribution of Loliginid Early Young Stages in the Portuguese Continental Shelf
K:33	M.M. da Cunha <i>et al.</i>	Spatial and Temporal Occurrences of <i>Loligo</i> spp. in Portuguese waters
K:34	M.M. da Cunha <i>et al.</i>	Influence of selected oceanographic factors on the distribution and relative abundance of <i>Loligo</i> spp. in Portuguese waters
K:35	W.K. Macy	Recruitment of long-finned squid in New England (USA) waters
K:36	J.P. Robin and E. Boucaud	Squid catch composition in the English Channel bottom trawl fishery: Proportion of <i>Loligo forbesi</i> and <i>Loligo vulgaris</i> in the landings and length-frequencies of both species during the 1993-1994 period

- K:37 C.P. Raya *et al.* Maturation pattern and recruitment of the squid *Loligo vulgaris* from North West African coast
- K:38 G.Y. Conan *et al.* Mapping and monitoring lobster recruitment in Malpeque Bay, Prince Edward Island, Canada
- K:39 A. de Kerros *et al.* Age determination of *Homarus americanus* using a histochemistry index of lipofuscin abundance
- K:40 F.M. Porteiro *et al.* The Azorean squid, *Loligo forbesi* (Cephalopoda:) in captivity: reproductive behaviour
- K:41 F.M. Porteiro *et al.* The Azorean squid, *Loligo forbesi* (Cephalopoda: Loliginidae) in captivity: feeding and growth
- Ref. F
- K:42 Poster S.V. Estácio *et al.* Reading and staining statoliths of the loliginid squid, *Loligo forbesi*
- K:43 Poster J.M. Gonçales *et al.* The deep water crab, *Chaceon affinis*, a new fisheries resource in the Azores?
- K:44 P. Sand Kristensen and K. Dahl Aerial surveys, biomass estimates and elimination of the mussel population (*Mytilus edulis* L.) stock in the Danish Wadden Sea 1991-1994
- K:45 P. Sand Kristensen and V. Wellendorph Fishery of brown shrimps (*Crangon crangon*) in the Danish Wadden Sea area (1963-1993)
- K:46 Withdrawn
- K:47 F. Vaz-Velho An assessment of deep water shrimp surveys in Angolan water
- K:48 M.L. Coelho *et al.* Estimates of individual fecundity in the squid *Loligo vulgaris* (Cephalopoda: Loliginidae)
- K:49 P.A. Lima *et al.* Patterns of schooling behaviour in *Alloteuthis subulata* (Cephalopoda: Loliginidae)
- K:50 V. Bettencourt *et al.* The use of statoliths in age determination of the long-finned squid, *Loligo vulgaris* (Cephalopoda: Loliginidae)
- K:51 Withdrawn
- K:52 Withdrawn
- K:53 V. Martin Periode d'eclosion et abondance des larves de crevette grise *Crangon Crangon* Linnaeus, 1758 en manche et au sud de la mer du nord
- K:54 S.A. Steingrímsson and G. Thorarinsdóttir Age, structure, growth and size at sexual maturity in ocean quahog *Arctica islandica* (Mollusca: Bivalvia), off NW-Iceland

REFERENCE PAPERS: B:11, B:20, D:9, D:10, D:13, D:14, E:13, F:6, F:12, F:14, G:21, G:32, G:33 (poster), L:11, L:26, L:29

L - BIOLOGICAL OCEANOGRAPHY COMMITTEE

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|-------------------------------|---------------------------------|--|
| L:1 | | ICES Identification Leaflets for Plankton. Editors Report 1994/1995 |
| L:2
Ref. C+E Env | | Report of the Working Group on Phytoplankton Ecology |
| L:3 | | Report of the Benthos Ecology Working Group |
| L:4
Ref. E | | Report of the ICES/IOC Working Group on Harmful Algal Bloom Dynamics |
| L:5 | | Report of the Working Group on Zooplankton Ecology |
| L:6 | | Report of the Working Group on Recruitment Processes |
| L:7 | | Report of the Study Group on Methods of Spatial and Temporal Integration |
| L:8 | | Report of the Study Group on Gulf III Sampler Efficiency Calibrations |
| L:9
Ref Assess
Env | | Report of the Working Group on Seabird Ecology |
| L:10 | P. Kremer | The importance of life history to predation by gelatinous zooplankton |
| L:11
Ref. C, G, H,
J, K | A. Stankevicius | Impact of the Kurschiu marios lagoon eutrophic water on ecosystems of the Lithuanian coastal zone |
| L:12 | | Withdrawn |
| L:13 | K. Gudmundsson <i>et al.</i> | Estimation of assimilation numbers off the coasts of Iceland |
| L:14
Ref. G | U. Waller and H. Rosenthal | The migratory behaviour of yolk-sack larvae of cod, <i>Gadus morhua</i> |
| L:15 | S.A. Pedersen and E.L.B. Smidt | Zooplankton investigations off West Greenland 1956-1984 |
| L:16
Ref. C, G, H | B.J. Rothschild and A.F. Sharov | The North Sea cod, herring zooplankton and the North Atlantic climate signal of 1970's |
| L:17.Poster | S. Alshuth and R. Grant Gilmore | Egg and early larval characteristics of <i>Pogonias cromis</i> , <i>bairdiella chrysoura</i> and <i>Cynoscion nebulosus</i> (Pisces: Sciaenidae) from the Indian River Lagoon, Florida |
| L:18 | K. Sherman <i>et al.</i> | Zooplankton and fisheries of the northeast shelf large marine ecosystem |

L:19 Poster	E. Naumenko	Species composition, seasonal and long-term dynamics of zooplankton abundance and biomass in the Vistula Lagoon of the Baltic Sea
L:20 Poster	L.V. Rudinskaya	Dynamics of <i>Chironomus f.l. semireductus</i> biomass in the Currish Lagoon of the Baltic Sea
L:21 Poster	S.N. Semyonova <i>et al.</i>	Spatial-temporal fluctuations of phytocene in the south Baltic Sea during fall and spring
L:22 Ref. H Poster	P. do Carmo Lopes and M. Hortense Afonso	Ichthyoplankton abundance and larval diversity off the Portuguese continental coast
L:23		Withdrawn
L:24 Ref. H Poster	G.C. Rilling <i>et al.</i>	Temporal and spatial variability in the distribution and dynamics of Bay Anchovy (<i>Anchoa mitchilli</i>) early life stages in the Chesapeake Bay
L:25 Ref. C	M.R. George	Distribution and transport of mesozooplankton during tidal cycles at a fixed station in the northern German Wadden Sea
L:26 Ref. C, K	G.Y. Conan	The role of water masses in limiting movements of benthic crustaceans in the Gulf of St Lawrence, Canada
L:27	S.H. Jónasdóttir and M. St. John	Contents and depletion of lipids in <i>Calanus finmarchicus</i> during overwintering in the North Atlantic
L:28 Ref. C, J	H.H. Hinrichsen <i>et al.</i>	Larval drift and retention: Baltic cod, a modeling approach
L:29 Ref E, K	R. Dijkema <i>et al.</i>	Feasibility of active biological monitoring (ABM) of phytoplankton toxins with suspended mussels (<i>Mytilus edulis</i>) as an early warning system against toxic algal bloom in the Dutch coastal waters
L:30	A. Gislason and O. S. Astthorsson	Vertical distribution of zooplankton in the shelf area southwest of Iceland in early May 1991 and 1992

REFERENCE PAPERS: C:3, C:14, D:3, D:6, E:1, G:4, G:8, G:27, G:29, G:35, H:14, H:26, H:28, J:15, J:23, N:19

M - ANACAT FISH COMMITTEE

M:1		Joint ICES/EIFAC Working Group on Eel
M:2		Withdrawn
M:3	W-N Tzeng	Effects of salinity gradient and ontogenetic shift on strontium: calcium ratio in otolith of the Japanese eel, <i>Anguilla japonica</i> Temminck & Schlegel
M:4 Poster	I. Kallio-Nyberg and M-L Koljonen	Inheritance of sea migration pattern of the Atlantic salmon: a comparative study among two pure stocks and their and hybrids
M:5	I.K.K. Chan and D.K.O Chan	Variations in genetic composition of glass eels, <i>Anguilla japonica</i> , collected at different sites and time of the year
M:6	V. S. Varnavsky	Seawater adaptability of underyearling of five species of Pacific salmon in estuarine period
M:7	M. Holm <i>et al.</i>	Vertical movements of hydroacoustically tagged Atlantic salmon (<i>Salmo salar</i>) postsmolts on seaward migration - Diving as a possible strategy for navigation
M:8 Ref. J	T. Alapassi <i>et al.</i>	Stocking result of one and two year old salmon smolt on the basis of coded wire and carlin taggings
M:9	T. Gudjónsson	Seaward migration of smolts of Atlantic salmon (<i>Salmo salar</i> L.) in the river Ulfarsa in Southwest Iceland
M:10	K. Thorisson and J. Sturlaugsson	Postsmolts of ranched Atlantic Salmon (<i>Salmo salar</i> L.) in Iceland: I. Environmental conditions
M:11	K. Thorisson	Why does sea-migrating salmon (<i>Salmo salar</i> L.) leap?
M:12	K. Thorisson and J. Sturlaugsson	Postsmolts of ranched Atlantic salmon (<i>Salmo salar</i> L.) in Iceland: IV. Competitors and predators
M:13	O.T. Skilbrei <i>et al.</i>	Effects of pre-release acclimatization period on salmon return rates
M:14		Withdrawn
M:15	J. Sturlaugsson and K. Tórisson	Postsmolts of ranched Atlantic salmon (<i>Salmo salar</i> L.) in Iceland: II. The first days of the sea migration
M:16	J. Sturlaugsson and K. Tórisson	Postsmolts of ranched Atlantic salmon (<i>Salmo salar</i> L.) in Iceland: III. The first food of sea origin
M:17	J. Sturlaugsson and K. Tórisson	Migration study on homing of Atlantic salmon (<i>Salmo salar</i> L.) in coastal waters W-Iceland - Depths movements and sea temperatures recorded at migration routes by data storage tags

M:18		Withdrawn
M:19	J.F. Kocik and K.D. Friedland	Thermal analyses of Connecticut and Penobscot River-Ocean transition zones for Atlantic salmon smolts: clues for reintroducing stocks
M:20 Ref. C, D	F-X Cuende <i>et al.</i>	Influence of hydrological and climatic conditions on daily catch per unit effort of Atlantic salmon (<i>Salmo salar</i> L.) with drift gillnet at the mouth of the Adour river, France
M:21	P. Lambert <i>et al.</i>	A study of the estuarial migration of civelles (<i>Anguilla anguilla</i> L., 1758) using individual-based simulation
M:22	T. Antonsson <i>et al.</i>	Timing of smolt migration of Atlantic salmon (<i>Salmo salar</i> L.) in Icelandic rivers
M:23	Ö. Karlström	Salmon parr (<i>Salmo salar</i> L.) production and spawning stocks in Baltic salmon rivers in northern Sweden 1976-94
M:24 Ref. D, F	M.J. Harvey <i>et al.</i>	A multivariate description of shape changes of sea trout (<i>Salmo trutta</i> L.) during the parr-smolt transformation
M:25	M.J Harvey <i>et al.</i>	A physiological examination of smoltification in wild and reared sea trout (<i>Salmo trutta</i> L.) in Ireland: Na ⁺ /K ⁺ -ATPase activity, succinic dehydrogenase activity, metabolic activity and sea water tolerance
M:26	M.J. Harvey <i>et al.</i>	Physiological responses to transitions in <i>ambient osmotic concentrations by sea trout (Salmo trutta</i> L.) at selected development stages of smoltification
M:27	Asto Romakkaniemi <i>et al.</i>	Spatial stock composition of salmon on the basis of tag returns in the northern Bothnian Bay fishery
M:28	Atso Romakkaniemi <i>et al.</i>	Wild Baltic salmon stocks: Fecundity and biological reference points concerning their status
M:29 Poster	Erkki Jokikokko <i>et al.</i>	M74-phenomenon and the natural salmon production in the rivers Simojoki and Tornionjoki, the northern Finland
M:30 Poster	S.M. Einarsson and G. Gudbergsson	The closure of commercial netting in R. Hvítá, Iceland. Effects on rod catches of salmon (<i>Salmo salar</i> L.) in the tributaries
M:31	L.P. Hansen <i>et al.</i>	Factors affecting upstream and downstream migration in anadromous European salmonids and catadromous eel
M:32		Withdrawn
M:33 Poster	C Eriksson and E. Ikonen	Comparative taggings of salmon (<i>Salmo salar</i> L.) smolt with Finnish and Swedish carlin tags and technique
M:34	C.K.C. Wong and D.K.O Chan	Biochemical changes in the chloride and respiratory cells from the gill epithelium of the Japanese eel

		Anguilla japonica, following transfer from freshwater to seawater
M:35	R. Bartel and S. Bontemps	Possibility of natural spawning of Vistula Sea Trout (<i>Salmo trutta</i> L.) in the Drweca River
M:36 Poster	J. Domagala and R. Bartel	Survival of salmon (<i>Salmo salar</i> L.) fry stocked into small brooks
M:37 Poster	A.V. Zubchenko	Salmon rivers of the Kola Peninsula. Some data on the salmon migrations and estimation of marine fishery influence.
M:38 Poster	A.V. Zubchenko <i>et al.</i>	Salmon rivers of the Kola Peninsula. The reproductive potential and the stock status of the Atlantic salmon from the Kola River
M:39	A.V. Zubchenko and Yu.A. Bochkov	Salmon Rivers of the Kola Peninsula. Some Peculiarities of the Atlantic Salmon Spawner Migrations to the Kola and Tuloma Rivers
M:40	A.V. Zubchenko <i>et al.</i>	Fishery for and status of Atlantic salmon stock in north-west Russia in 1994
M:41	A.R. Bos	The migration of flounder larvae, <i>Pleuronectes flesus</i> Linnaeus 1758, into the tidal Elbe
M:42		ICES Compilation of Microtags, Finclip and External Tag Releases in 1994
M:43	A Moore <i>et al.</i>	The movements of wild sea trout (<i>Salmo trutta</i> L.) smolts in the lower river and estuary of the river Conwy, North Wales
M:44		Withdrawn
M:45	G.W. Smith <i>et al.</i>	The movements of Atlantic salmon (<i>Salmo salar</i> L.) in the estuary of the Aberdeenshire Dee in relation to environmental factors: I. Salinity
M:46	G.W. Smith and A.D. Hawkins	The movements of Atlantic salmon (<i>Salmo salar</i> L.) in the estuary of the Aberdeenshire Dee in relation to environmental factors: II. water temperature
M:47	G.W. Smith and I.P. Smith	The movements of Atlantic salmon (<i>Salmo salar</i> L.) in the estuary of the Aberdeenshire Dee in relation to environmental factors. III Circadian and circatidal patterns of movement
M:48	A.D.F. Johnstone <i>et al.</i>	The movement of sea trout smolts, <i>Salmo trutta</i> L. on entry to the marine environment

REFERENCE PAPERS: D:10, D:11, D:15, H:14

N - MARINE MAMMALS COMMITTEE

N:1	A. Bjørge	Comparative habitat use and foraging behaviour of harbour seals and grey seals in western Norway
N:2	P.J. H Reijnders <i>et al.</i>	Population development of harbour seals in the Wadden Sea after the 1988 virus epizootic
N:3 poster	L. Santiago <i>et al.</i>	Marine mammals stranded on the north and northwest coast of Spain in 1994
N:4		Withdrawn
N:5 Poster	M.B. Santos <i>et al.</i>	Diets of sperm whales stranded in Scotland
N:6	M.B. Santos <i>et al.</i>	Diets of small cetaceans stranded in Scotland 1993-1995
N:7	G.T. Waring and J.T. Finn	Cetacean trophic interactions off the northeast USA inferred from spatial and temporal co-distribution patterns
N:8	D. Palka	A cooperative study of North Atlantic harbor porpoise population structure
N:9	V Martin <i>et al.</i>	Records of cetaceans stranded on the Canary Islands coast from 1992 to 1994
N:10	P. Hammond <i>et al.</i>	The distribution and abundance of harbour porpoises and other small cetaceans in the North Sea and adjacent waters
N:11 Poster	B. Santos <i>et al.</i>	Diets of small cetaceans stranded on the Galician coast (NW Spain)
N:12	T. Bekkby and A.J. Bjørge	Variation in stomach temperature as indicator of meal size in harbour seal, <i>phoca vitulina?</i>
N:13	D. Pauly <i>et al.</i>	Diet composition and trophic levels of marine mammals
N:14	E. Hauksson and V. Bogason	Food of Harp Seals (<i>Phoca groenlandica</i> Erxleben, 1777) in Icelandic Waters, in the period of 1990-1994
N:15	E. Hauksson and V. Bogason	Occurrences of Bearded Seals (<i>Erignathus barbatus</i> Erxleben, 1777) and ringed seal (<i>Phoca hispida</i> Schreber, 1775) in Icelandic Waters, in the period 1990-1994, with notes on their food
N:16	E. Hauksson and V. Bogason	Occurrence of Hooded Seals (<i>Cystophora cistata</i> Erxleben, 1777) in Icelandic Waters, in the period 1989-1994
N:17	E. Hauksson and V. Bogason	Occurrences of Harp Seals (<i>Phoca groenlandica</i> Erxleben, 1777) in Icelandic Waters, in the period 1990-1994

- N:18 E. Hauksson and V. Bogason Food of Hooded Seals (*Cystophora cristata* Erxleben, 1777) Caught in Icelandic Waters, in the period 1990-1994
- N:19 Ref. H, L T. Haug *et al.* Diet and food availability for Northeast Atlantic minke whale *Balaenoptera acutorostrata*
- N:20 I. Martinez *et al.* Typing of Northeast Atlantic minke whales, *Balaenoptera acutorostrata*, by arbitrary amplification of polymorphic DNA
- N:21 K-H Kock and H. Benke On the by-catch of harbour porpoise (*Phocoena phocoena*) in German fisheries in the Baltic and the North Sea
- N:22 List of publications of interest to the Marine Mammals Committee
- N:23 Withdrawn

REFERENCE PAPER: K:12

MINI-SYMPOSIUM: ARCTIC OCEANOGRAPHIC PROCESSES (MINI)

Mini:1	S.V. Semovski <i>et al.</i>	Contact observation and remote sensing data in Norwegian Sea ecosystem studies
Mini:2	J. Meincke and B. Rudels	The Arctic Oceans Nordic Seas thermo-haline system
Mini:3	E. Sakshaug	A synopsis of the biomass distribution of energetics of the pelagic ecosystem in the Barents Sea
Mini:4	P.A. Gurbutt <i>et al.</i>	Estimates of fluxes of Caesium-137 in northern waters from recent measurements
Mini:5	S. Pfirman	Transport of contaminants by Arctic Sea Ice
Mini:6	J. Blindheim and B. Ådlandsvik	Episodic formation of intermediate water along the Greenland Sea arctic front
Mini:7	S-A Malmberg	Timing of deep convection in the Greenland and Iceland Seas
Mini:8	L-O Reiersen	Arctic monitoring and assessment programme (AMAP). Assessment of the pollution in the whole Arctic area.
Mini:9	K. Stange and J. Klungsyør	Contaminants in the Barents Sea ecosystem
Mini:10	H. Loeng <i>et al.</i>	Water fluxes through the Barents Sea
Mini:11	L. Føyn and I. Sværen	Distribution and sedimentation of radionuclides in the Barents Sea
Mini:12		Withdrawn
Mini:13	Yu. A Bochkow <i>et al.</i>	Withdrawn
Mini:14	G.I. Nesvetova	Variations in hydrochemical conditions in the Barents and Northeastern Norwegian Seas caused by climate
Mini:15	V.L. Tretyak <i>et al.</i>	Role of oceanographic conditions in Arcto-Norwegian cod recruitment dynamics
Mini:16	O.V. Titov	Seasonal dynamics of primary production in the Barents Sea
Mini:17	J.O. Backhaus	Convective formation and export of water masses in Arctic shelves

**THEME SESSION ON BALLAST WATER: ECOLOGICAL AND
FISHERIES IMPLICATIONS (O)**

O:1	D. Minchin and J. Sheehan	The significance of ballast water in the introduction of exotic marine organisms to Cork Harbour, Ireland
O:2	I. Laing	Ballast water discharge into coastal waters of England and Wales
O:3	K. Hayes	Ecological risk assessment for ballast water introductions
O:4	R.E. Thresher and R.B. Martin	Reducing the impact of ship-borne marine introductions: focal objectives and development of Australia's new centre for research on introduced marine pests
O:5 Poster	D. Gauthier	A synopsis of the Canadian situation relating to the introduction of unwanted aquatic organisms by ballast waters
O:6	H. Rosenthal	Ballast water and mariculture in coastal areas growing concerns about potential conflicts
O:7	G. Ruiz <i>et al.</i>	US Research program in ballast water invasions: monitoring and experimental studies in Chesapeake Bay
O:8	M. Nauke	Provisions of the control and management of ballast water to minimize the transfer of harmful aquatic organisms and pathogens
O:9	D.V. Subba Rao <i>et al.</i>	Concern for the introduction of exotic phytoplankton via ballast water into mariculture sites on Canada's east coast
O:10	E.M. Macdonald	Dinoflagellate resting cysts and ballast water discharges in Scottish ports
O:11	G. Rigby and A.H. Taylor	Ballast water: Its impact can be managed
O:12	T. Ikegami	The possible methods to prevent transference of harmful plankton by ship's ballast water
O:13	S. Gollasch <i>et al.</i>	Non-indigenous organisms introduced via ship's into German waters
O:14	R.M. Gaudiosi	Ballast water management - an integrated approach
O:15	G. Hallegraeff	Transport of toxic dinoflagellates via ships' ballast water
O:16	B. Hayden	A New Zealand perspective on ballast water
O:17	H. Gollamudi and A. Randall	Policy incentives to prevent introduction of non-indigenous species via shipping

THEME SESSION ON CAUSES OF OBSERVED VARIATIONS IN FISH GROWTH (P)

- P:1 N.L. Schackell *et al.* Cod (*Gadus morhua*) growth between 1956 and 1966 compared to growth between 1978 to 1985, on the Scotian Shelf and adjacent areas
- P:2 Withdrawn
- P:3 D.K. Kimura Variation in the growth of sablefish (*Anoplopoma fimbria*) in the Northeast Pacific Ocean
- P:4 M. Jobling The influence of environmental temperature on growth and conversion efficiency in fish
- P:5 H. Gjøsæter *et al.* Growth of capelin in relation to zooplankton biomass in the Barents Sea
- P:6 M. Kerstan Seasonal uncoupling of otolith and somatic growth in South African pilchard (*Sardinops Sagax*) and its applications
- P:7 J-D Dutil and Y. Lambert Potential bias in growth rate measurements associated with differential mortality of cod in poor condition: the case of cod in the Northern Gulf of St. Lawrence
- P:8 Withdrawn
- P:9 J. Schou Christiansen Food consumption and growth rate variations in male and female polar cod (*Boreogadus saida*)
- P:10 V.K. Ozhigin *et al.* Growth of Arcto-Norwegian cod in dependence of environmental conditions and feeding
- P:11 M.S. Shevelev Regularities of spotted wolffish (*Anarhichas minor Olafsen*) growth
- P:12 M.V. Kovtsova Changes in growth and maturation of the Barents Sea plaice (*Pleuronectes platessa* L.) in 70s-90s
- P:13 C. Clemmesen and T. Doan Does the otolith structure reflect the nutritional condition of a fish larva? - a comparison of otolith structure and biochemical index (RNA/DNA ratio) determined on cod larvae
- P:14 P.A. Shelton *et al.* Factors influencing weight at age of cod off eastern Newfoundland (NAFO Divisions 2J+3KL)

**THEME SESSION ON INTERMEDIATE-SCALE PHYSICAL PROCESSES AND THEIR
INFLUENCE ON THE TRANSPORT AND FOOD ENVIRONMENT OF FISH (Q)**

Q:1	T. Osborn	Larval feeding and survival: the role of turbulence
Q:2 Poster	A. Corten <i>et al.</i>	Hydrographic variability in the southern North Sea and its effect on the fish community
Q:3		Withdrawn
Q:4	E. Wolanski and P. Doherty	Fate of coral and fish larvae around coral reefs
Q:5	M.A. St. John <i>et al.</i>	The influence of hydrographic processes on plankton distribution and production in the Bornholm Basin, Baltic Sea
Q:6		Withdrawn
Q:7	Hideaki Nakata <i>et al.</i>	The tidal front and eddy in Osaka Bay: Its implication for distribution and survival of fish larvae
Q:8	S. Skreslet	Spawning of <i>Calanus finmarchius</i> related to meso-scale environmental structures in Norwegian shelf break front
Q:9 Poster	J.Laanemets <i>et al.</i>	Fine scale intrusions: one link in the chain of nutrient transport
Q:10	J.E. Beyer	Functional heterogeneity: using the interrupted poisson process (IPP) model unit in addressing how food aggregation may affect fish ration
Q:11		Withdrawn
Q:12	A.J Hermann <i>et al.</i>	Interannual variability of mesoscale eddies and patchiness of young walleye pollock as inferred from a spatially explicit, individual-based model
Q:13	S. Kimura <i>et al.</i>	Biological productivity of meso-scale eddies caused by frontal disturbances in the Kuroshio
Q:14 Poster	N.V. Mukhina <i>et al.</i>	The influence of the oceanographic fields on the abundance of <i>Sebastes mentella</i> and cod at the early life history
Q:15	D.G. Reid <i>et al.</i>	Cross-shelf processes north of Scotland in relation to the southerly migration of western mackerel
Q:16	C.D. Maravelias and D.G. Reid	Spatial relationships between herring, plankton and oceanographic conditions in the North Sea (ICES Div. IVa)
Q:17 Poster	N. Bailey <i>et al.</i>	The influence of hydrographic factors on <i>Nephrops</i> distribution and biology
Q:18	P.J.S. Franks	New models for the exploration of biological processes at fronts

- Q:19 G. Harding *et al.* Studies on the effect of the frontal zone on the Northern face of Georges Bank, Gulf of Maine, on larval lobster and plankton distribution
- Q:20 Withdrawn
- Q:21 Poster L.S. Incze *et al.* Turbulence-modified profiles of feeding conditions for larval cod (*Gadhus Morhua*) on Georges Bank during spring
- Q:22 B. MacKenzie and M. St. John Patchiness of plankton and abiotic variables: at what scales and turbulence levels do distributions differ?
- Q:23 P. Munk The concentration of larval cod and its prey in the zone of a hydrographic front
- Q:24 Withdrawn
- Q:25 E. Svendsen *et al.* Drift patterns of spring spawned herring larvae (*Clupea harengus* L.) along the Norwegian shelf
- Q:26 F.E. Werner *et al.* Larval trophodynamics, turbulence, and drift on Georges Bank: resolving the differences between cod and haddock
- Q:27 T. Osborn Is scale a path to the holy grail?

THEME SESSION ON MARICULTURE: UNDERSTANDING ENVIRONMENTAL INTERACTIONS (R)

- R:1 M. Héral *et al.* Benthic effects of biodeposition of oyster culture in mesotidal estuarine conditions
- R:2 M Héral and C. Bacher Biological requirements of shellfish culture: physiological demand and trophic capacity of coastal ecosystems
- R:3 A.B. Karasev *et al.* Salmon rivers of the Kola Peninsula. Salmon lice (*Lepiotheirus salmonis* Krøyer) on Atlantic salmon (*Salmo salar* L.) from the Varzuga River
- R:4 P.A. Gillibrand and W.R. Turrell Modelling the environmental impact of new and existing fish farms in Scottish sea lochs
- R:5 K. Veitola *et al.* Evaluation of environmentally sustainable aquaculture by decision analysis
- R:6 W. Silvert Modelling environmental interactions of mariculture
- R:7 A. Ervik *et al.* Regulation of environmental effects of mariculture in Norway
- R:8 H. Rosenthal Strategic Planning Workshop
- R:9 B. O'Connor Studies on Sea Lice Larvae *Lepeophtheirus salmonis* Krøyer on the West Coast of Ireland
- R:10 I.A. Govorin The effect of mussel mariculture on the quality of the marine environment: sanitary-bacteriological aspects

**THEME SESSION ON IMPROVING THE LINK BETWEEN FISHERIES SCIENCE AND
MANAGEMENT II: CAN WE MANAGE FISHERIES BY TECHNICAL MEASURES ALONE? (S)**

S:1	T. Vedsmand and J. Raakjær Nielsen	Devolved fisheries management systems: A discussion on implementation of alternative fisheries co-management models in Denmark
S:2	J. Rice and L. Richards	Effectiveness of three technical measures in the management of the British Columbia rockfish trawl fishery
S:3	J. L. Suárez de Vivero	The role of fishing organizations in the management of fisheries: traditional and industrial organizations
S:4	D. Ralph Matthews	Mere anarchy?: Canada's "Turbot War" as constructed management
S:5	K. Nedreaas <i>et al.</i>	Biological and economic implications of a multi-gear fishery for Greenland halibut (<i>Reinhardtius hippoglossoides</i>)
S:6	V. Marin	Beyond technical measure, the problem of agents coordination
S:7	M.S. Motzfeldt and P.G. Madsen	Employment impact assessment in fishing dependent regions
S:8	A.I.L. Payne and K.L. Cochrane	How management and science are trying to develop fisheries policy in South Africa
S:9	J.P. Hillis and R. Arnason	Why fisheries cannot be managed by technical measures alone: a comparison of selected fisheries inside and outside the European Union
S:10		Withdrawn
S:11	D.E. Lane and R.L. Stephenson	Matching technical measures with multiple objectives through co-management
S:12	K.M. Sokolov	Restriction of young fish by-catches as one of fishery management measures
S:13		Withdrawn
S:14	P.C. Young	Australia's northern prawn fishery - a case study for the use of jurisdictional, economic and biological input control measures to ensure sustainability
S:15	H. Frost and N. Vestergaard	An operational approach to assess effort regulation, subject to different management objectives
S:16	H. Frost <i>et al.</i>	The impact of the EU decommissioning scheme with particular respect to Denmark and the Netherlands
S:17	S. Christensen	A bioeconomic evaluation of management strategies in the Greenland shrimp fishery
S:18	S. des Clers <i>et al.</i>	Technical measures can work if effort is controlled

- S:19 C.E. Tucker Overcapacity and economic performance - a methodology for estimating the benefits of fishing fleet structural adjustment
- S:20 A.R. Couper Territorial and property rights as a basis for community-oriented management within the CEP

**THEME SESSION ON CONSEQUENCES OF MANIPULATION/MANAGEMENT OF
NUTRIENT FLUXES ON NUTRIENT-FOODWEB INTERACTIONS (T)**

T:1	E. Sakshaug <i>et al.</i>	Maricult research programme: fertilising the sea to harvest more
T:2		Withdrawn
T:3	K. Nitschke	Biomass and quantitative investigations of the macrobenthos in two localities in the Limfjord, Denmark: shortterm effects of oxygen depletion in relation to depth distribution
T:4		Withdrawn
T:5	S. Beddig <i>et al.</i>	Nitrogen Fluxes in the German Bight
T:6	A. Jarre-Teichmann	Seasonal mass-balance models of carbon flow in the central Baltic Sea with emphasis on the upper trophic levels
T:7	U. Sommer	Eutrophication related changes in phytoplankton species composition: is there a role of nutrient competition?
T:8	K-J Hesse <i>et al.</i>	Nutrient-phytoplankton relations in the German Wadden Sea
T:9	T.C. Prins <i>et al.</i>	The effects of top-down control on nutrient-phytoplankton relations: results from mesocosm experiments
T:10	V. Escaravage <i>et al.</i>	The response of phytoplankton communities to n-input reduction results from mesocosm experiments

**JOINT SESSION ON IMPROVING SPECIES SELECTIVITY IN MIXED
SPECIES FISHERIES (B+G+H+J+K)**

B+G+H+J+K:1	A. Engås and C.W. West	Development of a species-selective trawl for demersal gadoid fisheries
B+G+H+J+K:2	D. Wileman	Review of the progress made in Denmark in the development of species selective gears
B+G+H+J+K:3	C.S. Wardle	A review of fish behaviour in relation to species separation and selectivity in mixed fisheries
B+G+H+J+K:4	J. Robertson and A.M. Shanks	Experiments with rigid grids in the <i>Nephrops</i> and whitefish trawl fisheries
B+G+H+J+K:5	B. van Marlen	Recent developments in selective mid-water trawling EC-project TE-3-613 (SELMITRA)
B+G+H+J+K:6	W. Weber	Estimation of cod discards caused by the fishery on roundfish in the German Bight 1982-1994
B+G+H+J+K:7	W. Weber	Discarding practices by the main fisheries in the German Bight

ACFM - ADVISORY COMMITTEE ON FISHERY MANAGEMENT

ACFM:1 Agenda ACFM Consultations at the 1995 Annual Science Conference

ASSESSMENT WORKING GROUP REPORTS - 1995

- Assess:1 Working Group on the Assessment of Northern Shelf Demersal Stocks
- Assess:2 Working Group on the Assessment of Mackerel, Horse Mackerel, Sardine and Anchovy
- Assess:3 Arctic Fisheries Working Group
- Assess:4 Study Group on the Biology and Assessment of Deep-Sea Fisheries Resources
- Assess:5 Working Group on the Assessment of Norway Pout and Sandeel
- Assess:6 Working Group on the Assessment of Southern Shelf Demersal Stocks
- Assess:7 Blue Whiting Working Group
- Assess:8 Working Group on Assessment of Demersal Stocks in the North Sea and Skagerrak
- Assess:9 Atlanto-Scandian Herring and Capelin Working Group
- Assess:10 Planning Group on Multispecies Assessments of Boreal Systems
- Assess:11 Ref. D Working Group on Methods of Fish Stock Assessment
- Assess:12 Working Group on *Nephrops* Stocks
- Assess:13 Herring Assessment Working Group for the Area South of 62°N
- Assess:14 Ref. M Working Group on North Atlantic Salmon
- Assess:15 Working Group on Long-Term Management Measures
- Assess:16 Ref. M Baltic Salmon and Trout Assessment Working Group
- Assess:17 Ref. J Study Group on Data Preparation for the Assessments of Demersal and Pelagic Stocks in the Baltic
- Assess:18 Working Group on the Assessment of Demersal and Pelagic Stocks in the Baltic
- Assess:19 North-Western Working Group
- Assess:20 Ref. N ICES/NAFO Working Group on Harp and Hooded Seals
- Assess:21 Ref. G Study Group on the Biology and Assessment of Deep-Sea Fisheries Resources

ACME - ADVISORY COMMITTEE ON THE MARINE ENVIRONMENT

ACME:1 Agenda, ACME Consultations at the 1995 Annual Science Conference

ENV - ENVIRONMENT-RELATED WORKING GROUP REPORTS

Env:1 Steering Group on Processes of Pollutant Transfer and Effects on Biota
Ref. C+E

Env:2 Joint Meeting of the Working Group on Marine Sediments in Relation to Pollution
and the Working Group on Biological Effects of Contaminants
Ref E

Env:3 Working Group on Biological Effects of Contaminants
Ref E

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

Env:5 Working Group on Environmental Assessment and Monitoring Strategies
Ref. E

Env:6 Workshop on Metals in Estuaries (No meeting held)
Ref. C+E

Env:7 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:8 Marine Chemistry Working Group
Ref. C+E

Env:9 Working Group on Introductions and Transfers of Marine Organisms
Ref. E+F

Env:10 ICES/HELCOM Workshop on Temporal Trend Assessment of Data on
Contaminants in Biota from the Baltic Sea
Ref. E

JOINT MEETING ACFM/ACME

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