



1994 ANNUAL SCIENCE CONFERENCE
CONTRIBUTIONS, AGENDAS AND TIMETABLES

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GENERAL ASSEMBLY REPORTS AND PAPERS OF GENERAL INTEREST

- Gen:1 Observers' reports from cooperating organizations
- Gen:2 ICES activities in 1993/1994
- Gen:3 Election of standing scientific committee Chairmen at 1994 Annual Science Conference (82nd Statutory Meeting) (E+F)
- Gen:4 Report of the Mid-Term Meeting of the Consultative Committee, ICES Headquarters,
Ref. A + Del 1-2 June 1994
- Gen:5 Advance Release of Tables, 1-6 of ICES Fisheries Statistics, Vol. 78, 1993
- Gen:6 1993/1994 overview of ICES Committees and subsidiary Groups and their "shadowing" by Secretariat staff, and schedule of ICES Meetings and assigning of document codes

(E + F) = in English and French

DEL - DELEGATES DOCUMENTS

- Del:1* Audited Income and expenditure Account for the Financial Year 1992/1993 with Balance Sheet at 31/10 1993
- Del:2* Progress report on Administration for the year 1 November 1993 to 31 October 1994
- Del:3* Report on Activities, 1993
- Del:4* Estimated accounts for the financial year 1993/1994
- Del:5* Draft budget for financial year 1994/1995 (E+F)
- Del:6* Draft forecast budget for the financial year 1995/1996 (E+F)
- Del:7* Elections and appointments by the Council at the 82nd Statutory Meeting (E+F)
- Del:8* Proposal for an ICES policy on marine mammals
- Del:9* Auditing of the Council's accounts and the relationship with the Auditor General of Denmark
- Del:10* Status, rules and procedures governing data bases maintained at the ICES Secretariat
- Del:11* Cooperation with other international organizations: working relationships and financial arrangements
- Del:12* ICES role in promoting, participating in, and coordinating major international scientific programmes
- Del:13* Conclusion of North Sea Task Force and succeeding developments
- Del:14* Topics for Delegates "Extra" Meeting

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

FI - FINANCE COMMITTEE

FI:1* Agenda for the Finance Committee

PUB - PUBLICATIONS COMMITTEE

Pub:1 Agenda for the Publications Committee

Pub:2 Publication activities in 1993/1994

Pub:3 Sale of ICES publications during the last three years

Pub:4 Report of the Editors of the *ICES Journal of Marine Science* for 1993/1994

Pub:5 Academic Press publisher's report for 1994: *ICES Journal of Marine Science*

Pub:6 Financial Status of *ICES Journal of Marine Science* for 1993

Pub:7 *ICES Cooperative Research Report* series: Editor's Report 1993/1994

Pub:8 Publication of ICES Symposium proceedings: future developments with Academic Press

REFERENCE PAPERS: E:2, L:33

A - CONSULTATIVE COMMITTEE

- A:1* Agenda for the Consultative Committee
- A:2* Minutes of ACFM Meeting, ICES Headquarters, 26 October-3 November 1993
- A:3* Minutes of ACFM Meeting, ICES Headquarters, 17-25 May 1994
- A:4* Minutes of ACME Meeting, ICES Headquarters, 25-31 May 1994
- A:5* Report of Joint Meeting of ACFM and ACME, 24 May 1994, Charlottenlund Denmark
- A:6*
Ref. ACFM/ACME Planning Group for the Tenth Dialogue Meeting on "Fisheries and Marine Environmental Problems in the Bay of Biscay and Iberian Region", 22-23 March 1994, Vigo, Spain
- A:7
Ref. C,G,H,J+L Report of the Working Group on Cod and Climate Change
- A:8
Ref. E,N Report of the Study Group on Long-Finned Pilot Whales
- A:9
Ref. C,G,H,J+L Report of ICES/GLOBEC Cod and Climate Data Base Workshop
- A:10
Ref. C,G,H,J+L Report of ICES/GLOBEC Cod and Climate "Aggregation Workshop", Charlottenlund, 22-24 August 1994
- A:11
Ref. ACFM/ACME Report of the *Ad Hoc* ICES-British Marine Fishes Database (BMFD) Group
- A:12 Report of ICES/GLOBEC Cod and Climate Backward-Facing Workshop
- A:13 Compendium of Draft Recommendations

B - FISH CAPTURE COMMITTEE

B:1		Report of Activities 1993
B:2		Report of the Working Group on Fishing Technology and Fish Behaviour
B:3 Ref.H		Report of the Working Group on Fisheries Acoustics Science and Technology
B:4		Report of the Joint Session of the WG on Fishing Technology and Fish Behaviour and WG on Fisheries Acoustics Science and Technology
B:5		Report of the Study Group on Research Vessel Noise Measurement
B:6		Report of the Study Group on Target Strength Methodology
B:7		Report of the Sub-Group on Selectivity Methods
B:8		Report of the Sub-Group on Methodology of Fish Survival Experiments
B:9		Report of the Workshop on Hydroacoustic Instrumentation
B:10 Ref. G	D.A. Wileman and J. Main	Attempts to develop a species selective trawl for fishing pout
B:11		Withdrawn
B:12 Ref. K	J. Boje and K.M. Lehmann	Selectivity in shrimp trawl codend from an alternate haul experiment
B:13	B. van Marlen <i>et al.</i>	Intermediate results in EC-project TE-3-613 "Improved species and size selectivity of mid-water trawls (SELMITRA)"
B:14 Ref. G, K	N. Madsen and T. Moth-Poulsen	Measurement of the selectivity of <i>Nephrops</i> and demersal round-fish species in conventional and square mesh panel codends in the northern North Sea
B:15	S. Ehrich <i>et al.</i>	Comparative fishing with FRVs "Walther Herwig" and "Walther Herwig III"
B:16 Ref. G	E. Jónsson	Scale damage and survival of haddock escaping through codend meshes (tank experiment)
B:17 Ref. D, H	J. Hamre and A. Dommasnes	Test experiments of target strength of herring by comparing density indices obtained by acoustic method and purse seine catches
B:18	I. Huse <i>et al.</i>	Day/night variation in fish directivity in the trawl opening
B:19 Ref. H	I. Huse <i>et al.</i>	Angular distribution of overwintering Norwegian spring spawning herring
B:20 Ref. K	G.Y. Conan <i>et al.</i>	The Bigouden <i>Nephrops</i> trawl, and the Devismes trawl, two otter trawls efficiently catching benthic stages of Snow Crab and American Lobster

B - FISH CAPTURE COMMITTEE

B:21	B.R. McCallum	Calibration of hydroacoustic instrumentation for survey trawl mensuration
B:22 Ref. G	T. Moth-Poulsen	Development of a species selective whiting trawl
B:23 Ref. G	M. Meillat <i>et al.</i>	Preliminary results of a trawl fitted with a selective grid for the fishery of benthic species from the Celtic Sea and the Bay of Biscay
B:24 Ref. D	F. Theret	A mathematical model for the determination of the shape and the tensions of a trawl placed in a uniform current
B:25 Ref. D	G. Bavouzet and Y. Cadion	Meschal data acquisition software for sea trials
B:26 Ref. D	F. Gerlotto <i>et al.</i>	Exhaustive observation of 3-D school structure using multibeam side scan sonar: potential use for school classification, biomass estimation and behaviour studies
B:27	H. Nes	Split beam dual target detection properties
B:28 Ref. G, H	O.A. Misund and A. Beltestad	Size-Selection of mackerel and saithe in purse seine
B:29 Ref. G	N. Lowry <i>et al.</i>	Mesh size experiments in the Baltic cod fishery
B:30 Ref. G	E. Ona	Detailed in situ target strength measurements of Cod 0-Group
B:31	F.G. O'Neill and L. Xu	Twine flexural rigidity and mesh resistance to opening
B:32 Ref. G, K	J.H.B. Robertson and A.M. Shanks	The effect on catches of <i>Nephrops</i> , haddock and whiting of square mesh window position in a <i>Nephrops</i> trawl
B:33	Withdrawn	
B:34	N. Lowry and J.H.B. Robertson	The effect of twine thickness on cod-end selectivity of trawls for haddock in the North Sea
B:35	R.S.T. Ferro and F.G. O'Neill	An overview of the characteristics of twines and netting that may change cod-end selectivity
B:36	R.S.T. Ferro and F.G. O'Neill	An overview of methods of measuring twine and netting characteristics and mesh size
B:37	R.S.T. Ferro and L. Xu	Comparisons of mesh size measurements with the ICES and wedge gauges
B:38	K. Lehmann and G.I. Sangster	Commercial fishing experiments to assess the scale damage and survival of haddock and whiting after escape from four sizes of diamond mesh codends
B:39 Ref. K	H. Polet and F. Redant	Selectivity experiments in the Belgian Norway lobster (<i>Nephrops norvegicus</i>) fishery

B - FISH CAPTURE COMMITTEE

40 K.G. Foote Coincidence echo statistics
Ref. D, L

REFERENCE PAPERS: D:4, D:18, D:19, G:14, G:23, G:27, G:34, J:13, N:5

C - HYDROGRAPHY COMMITTEE

C:1 Ref.L		Report of the Working Group on Shelf Seas Oceanography
C:2		Report of the Working Group on Marine Data Management
C:3		Report of the Working Group on Oceanic Hydrography
C:4		Withdrawn
C:5 Ref.L		Workshop on Modelling the Population Dynamics of Harmful Algal Blooms
C:6	S. Jónsson and K. Guðmundsson	An interdisciplinary study of Eyjafjörður, North Iceland
C:7	C.M. Afonso Dias	Circulation and water masses off the Portuguese coast in September-October 1991
C:8	M. Bersch and J. Meincke	Meridional transport estimates for the northern North Atlantic

REFERENCE PAPERS: A:7, A:9, A:10, ENV:1, ENV:10, E:5, E:18, H:23, K:20 (poster), L:3, L:27

D - STATISTICS COMMITTEE

- | | | |
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| D:1
Ref.G,H+J | | Report of the Workshop on Sampling Strategies for Age and Maturity, 3-9 February 1994, ICES Headquarters |
| D:2 | ICES Fishery Secretary | Progress Report 1993/1994 |
| D:3 | J.P. Hillis | Density dependent growth and natural mortality in exploited fish populations; important parameters in fishery conservation calculations |
| D:4
Ref B, G | J.P. Hillis | Use of swept area surveys to calculate fishing mortality (F) in commercial fish stocks; the need for survey gear development |
| D:5 | W.L. Gabriel | Simple method for estimating uncertainty associated with F_{med} |
| D:6
Ref. G | R.A. Myers and N.G. Cadigan | The statistical analysis of catch-at-age data with correlated errors |
| D:7
Ref. G | G.T. Evans | Disentangling the inferences of sequential population analysis can reveal underlying problems |
| D:8 | W.G. Warren | Removal estimates of atlantic salmon parr: maximum likelihood and Bayesian methods |
| D:9 | W.G. Warren | The effect of fish movement on trawl survey estimates of abundance: The Northern Cod |
| D:10
Ref. G, H, J | J.M. Hoenig <i>et al.</i> | A computationally simple approach to using current and past data in an age-length key |
| D:11
Ref. G, H, J | J.M. Hoenig <i>et al.</i> | Testing the equivalence of two age determination methods (or two age readers) |
| D:12 | | Withdrawn |
| D:13
Ref. G | W.G. Warren <i>et al.</i> | Estimating the population mean stomach content weight of cod from a stratified random trawl survey and length stratified stomach sampling |
| D:14
Ref. G, H, J | P. Petitgas | Spatial strategies of fish populations |
| D:15 | | Withdrawn |
| D:16 | | Withdrawn |
| D:17 | | Withdrawn |
| D:18
Ref. B | A.M. Shanks <i>et al.</i> | The use of catch and effort data in the assessment of <i>Nephrops</i> fisheries |
| D:19
Ref. B, G | S.A. Reeves | Seasonal and annual variation in catchability of sandeels at Shetland |
| D:20 | K. Thorarinsson <i>et al.</i> | The potential effects of variations in proportions mature at age on estimated stock numbers of Icelandic cod |

REFERENCE PAPERS: B:17, B:24, B:25, B:26, B:40, E:14, F:19, G:7, G:9, G:16, G:24, H:11, H:13, H:20, J:14, K:11, K:25, L:22, N:5 (poster), Env:6, Env:8

E - MARINE ENVIRONMENTAL QUALITY COMMITTEE

- | | | |
|--------------------------|---|--|
| E:1 | | Report of Activities, 1993 |
| E:2
Ref. Pub | | Report of the Editor of the <i>Techniques in Marine Environmental Sciences</i> for 1994 |
| E:3 | | Report of the Working Group on the Baltic Marine Environment |
| E:4 | | Report of the Working Group on the Effects of Extraction of Marine Sediments on Fisheries |
| E:5
Ref. C | | Report of the Study Group on Environmental Modelling of the Baltic Sea |
| E:6 | | Report of the Steering Group for the Coordination of a Baseline Study on Contaminants in Baltic Sediments |
| E:7 | | Report of the Steering Group on Quality Assurance of Biological Measurements in the Baltic Sea |
| E:8 | | Report of the Steering Group on Quality Assurance of Chemical Measurements in the Baltic Sea |
| E:9
Ref. L | | ICES/HELCOM Workshop on Quality Assurance of Pelagic Measurements in the Baltic Sea |
| E:10
Ref. L | | ICES/HELCOM Workshop on Quality Assurance of Benthic Measurements |
| E:11 | | Report of the ICES/HELCOM Workshop on Quality Assurance of Chemical Analytical Procedures for the Baltic Monitoring Programme |
| E:12
Ref. F, G | B. Watermann and
N. Peters & Schmidt | Occurrence and structure of cysts in x-cell lesions of Atlantic cod (<i>Gadus morhua</i> L.) |
| E:13 | | Withdrawn |
| E:14
Ref. D | K.H. van Bernem
and A. Müller | Distribution of habitats and pollutants on tidal flats in the entire German Wadden Sea |
| E:15
Poster | L. Føyn | Dumped radioactive material in the Kara Sea. Report from three joint Norwegian/Russian expeditions |
| E:16
Ref. G, H | L. Føyn | Radioactive contamination in the Barents Sea, past and present status, uptake of radionuclides in fish and its impact on fisheries |
| E:17
Ref. K
Poster | T. Alkanani <i>et al.</i> | Heavy metals and other elements in the hydrolysate of shellfish species from Northeast Brazil |
| E:18
Ref. C, L | W. Hickel | Changes in the German Bight pelagic environment during three decades |
| E:19 | A. Köhler <i>et al.</i> | Fish diseases in the North Sea - biological effects in flatfish liver |
| E:20 | S. Rowlatt and
D. Lovell | Methods for the normalisation of metal concentrations in sediments |

E - MARINE ENVIRONMENTAL QUALITY COMMITTEE

E:21
Poster

P. Roose *et al.*

PCB's in cod, flounder and mussel from the Belgian continental shelf in the period 1983-1992: trend analysis and tissue distribution.

REFERENCE PAPERS: A:8, F:3, F:5, F:7, F:10, L:6, L:27, N:2, Env:1, Env:2, Env:3, Env:4, Env:5, Env:6, Env:8, Env:9, Env:10

F - MARICULTURE COMMITTEE

- F:1 Report of Activities, 1993
- F:2 Publications of Interest to the Mariculture Committee, 1993
- F:3 Report of the Working Group on Environmental Interactions of
Ref.E Mariculture
- F:4 Report of the Working Group on the Application of Genetics in
Fisheries and Mariculture
- F:5 Report of the Working Group on Pathology and Diseases of
Ref. E Marine Organisms
- F:6 Report of the Working Group on Mass Rearing of Juvenile
Marine Fish
- F:7 Report of the Sub-Group on Statistical Analysis of Fish Disease
Ref. E Data
- F:8 C.M. Morrison and Description of the trophozoites and spores and discussion of
C.A. MacDonald taxonomy of myxosporean parasites in the gallbladder of the
Atlantic halibut, *Hippoglossus hippoglossus*.
- F:9 Workshop to Evaluate the Potential of Stock Enhancement,
Ref. G, K Charlottenlund
- F:10 H. Ackefors and Swedish coastal zone management - a system for integration of
Ref.E K. Grip various activities
- F:11 D. Wiseman and Effects of prey density and temperature on early growth and
Ref. G J.A. Brown survival of common wolffish larvae
Poster
- F:12 F. Shahidi and Mariculture of farmed cod (*Gadus morhua*)
Ref. G E. Dunajski
Poster (c)
- F:13 D. Minchin and Monitoring of sea-lice infestations of farmed salmonids in Ire-
D. Jackson land 1991-1994
- F:14 D. Jackson *et al.* Observations on the larval stages of the salmon louse,
Lepeophtheirus salmonis
- F:15 A. Littaye-Mariette Monitoring the growth of *Crassostrea gigas* in French oyster
Ref. K farming areas, protocol and results of 1993
Poster
- F:16 A.K. Imsland *et al.* Studies on haemoglobin genotypes in Turbot and their relation
Ref. G with growth
Poster (c)
- F:17 R.S. Raynard *et al.* Development of a vaccine for the control of sea lice
Ref. M (*Lepeophtheirus salmonis* and *Caligus elongatus*) in Atlantic
Salmon (*Salmo salar*)
- F:18 T. Mäkinen *et al.* Feed wastage and feeding behaviour of rainbow trout in net
Poster cages with pendulum feeders

F - MARICULTURE COMMITTEE

F:19 Ref. D	S. Des Clers	Sampling to detect infections and estimate prevalence in aquaculture
F:20 Poster	I.B. Falk-Petersen <i>et al.</i>	Fertilization, egg-incubation and development of the spotted wolffish, <i>Anarhichas minor</i> , a new species in aquaculture
F:21	K. Boxaspen	Comparison of the effect of dichlorvos and pyrethrins against salmon lice (<i>Lepeophtheirus salmonis</i>) parasitic on salmon (<i>Salmo salar</i>) by one or successive treatments.
F:22	R.A. Khan	Parasites as potential pathogens in Atlantic cod mariculture
F:23	M. Hill <i>et al.</i>	Coastal resource inventory and mapping in Nova Scotia: Community involvement in mariculture planning and development
F:24		Withdrawn
F:25 Poster	D. Kieser	Decision-pathways used to adjudicate the introduction and transfers of live aquatic organisms into and within British Columbia
F:26	A. Ervik and P.K. Hansen	Case histories and new approaches to planning and modelling for Norwegian mariculture
F:27	T.E. Chua	Review of the coastal zone profile research work within Asean countries with special emphasis on mariculture
F:28	P. Burbridge	Planing process in coastal zone management
F:29		Withdrawn
F:30	S.M. Bower <i>et al.</i>	Potential for the Pacific oyster, <i>Crassostrea gigas</i> to serve as a reservoir host and carrier of oyster pathogens
F:31	O. Matsuda	Mariculture and coastal zone management in Japan: the case of the Seto Inland Sea
F:32 Ref. Pub.	G. Olivier	ICES Identification Leaflets for Diseases and Parasites of Fish and Shellfish. Editors Report 1993/1994.

REFERENCE PAPERS: E:12, G:41, J:20, M:3, M:16, M:27, Env:7, Env:9

G - DEMERSAL FISH COMMITTEE

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|------------------|--|--|
| G:1 | | Report of Activities, 1993 |
| G:2 | | Withdrawn |
| G:3
Ref.H | | Preliminary report of the International 0-Group Fish Survey in the Barents Sea and Adjacent waters in August-September 1993 |
| G:4 | | Report of the Study Group on Redfish Stocks |
| G:5 | | Report of the Study Group on Beam Trawl Surveys |
| G:6
Ref. H | | Report of the Study Group on the Coordination of Bottom Trawl Surveys in Sub-areas VI, VII, and VIII and Division IXa |
| G:7
Ref. D | A.M. Ajiad <i>et al.</i> | Can a bioenergetics model explain growth of the Northeast Arctic Cod? |
| G:8 | | Withdrawn |
| G:9
Ref. D, L | A.D. Rijnsdorp and
P.I. van Leeuwen | Changes in growth of North Sea plaice since 1950 and its relation to density, eutrophication, beam trawl effort and temperature |
| G:10 | P.I. van Leeuwen
<i>et al.</i> | Variations in abundance and distribution of demersal fish species in the coastal zone of the southeastern North Sea between 1980 and 1993 |
| G:11 | P. Gerrior <i>et al.</i> | How 'mixed' is the mixed species trawl fishery on Georges Bank? or evaluating fishery performance via an observer program |
| G:12 | | Withdrawn |
| G:13 | T. Neudecker and
U. Damm | 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:14
Ref. B | O.R. Godø | Natural fish behaviour and catchability of groundfish |
| G:15 | | Withdrawn |
| G:16
Ref. D | S. Tjelmeland and
J. Alvarez | Estimating initial stomach content using stochastic simulation |
| G:17 | | Withdrawn |
| G:18 | F. Cardador and
A M Caramelo | Distribution pattern of hake (<i>Merluccius merluccius</i>) in the Portuguese waters (ICES, Div.IXA) based on groundfish surveys data |
| G:19 | M. Azevedo | Contribution to the study of the biology of monkfish stocks in ICES Divisions VIIIc and IXa |
| G:20 | M. Azevedo | An attempt to estimate fishing effort in a mixed fishery: application to the Portuguese monkfish and megrims commercial landings |

G - DEMERSAL FISH COMMITTEE

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| G:21 | A. Silva and
M. Azevedo | Abundance and distribution of megrims, <i>Lepidorhombus boscii</i> and <i>L. whiffia gonis</i> in ICES Division IXa (Portuguese waters) |
| G:22 | M. Azevedo and
P. Pereda | Comparing monkfish (<i>Lophius piscatorius</i> and <i>L. budegassa</i>) abundance in ICES Division VIIIc by year and depth strata |
| G:23
Ref. B | H. M. Dinis | An experiment on diel variation in trawl catches of hake |
| G:24
Ref. D | D. Nowicki <i>et al.</i> | Etude de la répartition de poissons demersaux par campagne de chalutage |
| G:25 | K. Gorchinsky <i>et al.</i> | Northern Mid-Atlantic Ridge (42°-50°N) ichthyofauna characteristics. Some results from the Russian-Norwegian Deep-Water Expedition in September-October 1993 |
| G:26 | R. Duarte <i>et al.</i> | Study on the growth of black monkfish (<i>Lophius budegassa</i> , Spinola) and white anglerfish (<i>L. piscatorius</i> , L.) of ICES Stock in Division VIIIc + IXa |
| G:27
Ref. B | A. Aglen and
O. Nakken | Length dependent corrections of survey estimates of cod and haddock in the Barents Sea |
| G:28 | M.M. Martins <i>et al.</i> | Evolution of the Portuguese fishery of black scabbard fish (<i>Aphanopus carbo</i> Lowe, 1839) during the period 1984-1993 |
| G:29
Ref. K | F. Redant and
H. Polet | Introduction on the finfish by-catches and discards in the Belgian Norway lobster (<i>Nephrops norvegicus</i>) fishery |
| G:30 | I.Ya. Ponomarenko
and N.A. Yaragina | Maturity rate of the Lofoten-Barents Sea cod in 40s and 90s |
| G:31 | O.V. Smirnov <i>et al.</i> | Results of Russian investigations for Greenland halibut from the Norwegian Barents sea stock in 1993 |
| G:32 | V.K. Ozhigin <i>et al.</i> | Dependence of the Barents Sea cod growth upon conditions of their feeding on capelin and water temperature |
| G:33
Ref. L | V. Shibanov and
S.P. Melnikov | Status of the commercial stock of redfish (<i>Sebastes mentella</i> Travin, Oceanic type) in the Irminger Sea in 1993 as evaluated by Russian Ichthyoplankton Survey |
| G:34
Ref. B | V.M. Shibanov <i>et al.</i> | Results of the Russian Trawl Acoustic Survey for <i>Sebastes mentella</i> of the Irminger Sea in 1993 |
| G:35 | P.J. Bromley and
T. Watson | The effect of sea bed type on the distribution of cod, haddock and whiting in the North Sea off the north east coast of England |
| G:36
Poster | D. Bucke <i>et al.</i> | Pathological investigations into pigment anomalies and blindness in angler fish (<i>Lophius piscatorius</i> and <i>L. budegassa</i>) from the Celtic Deeps |

G - DEMERSAL FISH COMMITTEE

- G:37 R.A. Myers and Is fish recruitment related to spawner abundance?
Ref. H N.J. Barrowman
- G:38 J.E. Eliassen *et al.* Coastal and fjord resources off Finnmark and Troms Counties, Norway, based on the 1992 survey
- G:39 P. Solemdal *et al.* The spawning of Arcto-Norwegian cod in Lofoten during March-April 1994, influenced by temperature and tradition.
- G:40 Yu. M. Lepesevich Russian investigations on cod and haddock in the Barents Sea and adjacent waters in November 1993 - January 1994
et al.
- G:41 C. Hammer and The effect of endurance swimming on growth, body composition and calorific content of 0-group whiting (*Merlangius merlangus*,
Ref. F G. Schwarz Gadidae)
- G:42 A.P. Robb Analysis of the whiting stomachs collected in the North Sea
Ref. H *et al.* during the 1991 ICES Stomach Sampling Project
- G:43 F.A. van Beek The "one and only" management objective of fishery biologists
- G:44 J. Magnússon *et al.* Report on the Joint Icelandic Norwegian Survey on Oceanic Redfish in the Irminger Sea and Adjacent Waters, in June/July 1994
- G:45 Report on the 0-Group Fish Survey in Iceland & East Greenland Waters, August - September 1994

REFERENCE PAPERS: A:7, A:9, A:10, B:10, B:14, B:16, B:22, B:23, B:28, B:29, B:30, B:32, D:1, D:4, D:6, D:7, D:10, D:11, D:13, D:14, D:19, E:12, E:16, F:9, F:11, F:12 (poster), F:16 (poster), H:6, J:14, J:19 (poster), J:20, J:24, K:25, K:34, L:14, L:16, L:25, L:26, L:27, M:5, N:12, N:14

H - PELAGIC FISH COMMITTEE

H:1		Report of Activities 1993
H:2		Publications of Interest to the Pelagic Fish Committee, 1993
H:3		Report of the Planning Group for Herring Surveys
Ref. J		
H:4		Report of the Mackerel/Horse Mackerel Egg Production Workshop
H:5		Report of the Study Group on Herring Assessment and Biology in the Irish Sea and Adjacent Waters
H:6		Report of the International Bottom Trawl Survey Working Group
Ref. G		
H:7		Report of the Workshop on Herring Age Reading
Ref. J		
H:8	A. Eltink	Equilibrium Catch and Stock Predictions in weight and value for southern horse mackerel
H:9		Withdrawn
H:10	R. Stephenson <i>et al.</i>	Understanding the dynamics of herring: lessons from larvae
H:11	A. Dommasnes and Ref. D K. Hiis Hauge	Hermod, a single species model of the Norwegian spring spawning herring stock
H:12	T. Monstad and S.V. Beilikov	Investigations on blue whiting in the area west of the British Isles, spring 1994.
H:13	E. Torstensen	Results of the Workshop on Comparative Age Reading on Sprat from ICES Div. IIIa
Ref. D, J		
H:14		Withdrawn
H:15	H. Lassen and Ref. J E. Rasmussen	Identifying Rügen herring in Skagerrak using ¹³⁷ Cs as Tag.
H:16	H. Lassen and Ref. J E. Rasmussen	On splitting herring in Kattegat-Skagerrak into spring and autumn spawners based on length and vertebral counts
H:17	G. Pestana	Population structure and commercial catches composition of sardine (<i>Sardina pilchardus</i>) in the Portuguese coast (ICES Div. IXa)
H:18	G. Pestana	A review of the Portuguese sardine fishery (ICES Div. IXa)
H:19	A. Farinha and Ref. L M.F. Borges	Daily egg production of horse mackerel (<i>Trachurus trachurus</i>) in Portuguese area (Div. IXa)
H:20	A.G. Murta and Ref. D M.F. Borges	Factors affecting the abundance distribution of horse mackerel (<i>Trachurus trachurus</i> Linnaeus, 1758) in the Portuguese waters (Division IXa)
H:21		Withdrawn

H - PELAGIC FISH COMMITTEE

- H:22 E.J. Simmonds *et al.* 1993 ICES co-ordinated acoustic survey of ICES Divisions IVa, IVb and VIa
- H:23 W.A. Montevecchi Cold water events and shifts in pelagic food webs
Ref. C, L and R.A. Myers
- H:24 Report of the International Bottom Trawl Survey in the North Sea, Skagerrak and Kattegatt in 1994: Quarter 1
- H:25 K. Patterson and Report of the herring larvae surveys in the North Sea and
D. Beveridge Adjacent Waters in 1993/1993

REFERENCE PAPERS: A:7, A:9, A:10, B:3, B:17, B:19, B:28, D:1, D:10, D:11, D:14 E:16, G:3, G:6, G:37, G:42, J:9, J:10, J:11, J:12, J:16, J:20, J:21, K:8, L:14, L:16, L:20, L:23, M:5, N:4, N:12, N:14

J - BALTIC FISH COMMITTEE

J:1		Report of Activities
J:2		Withdrawn
J:3		Withdrawn
J:4		Planning Group for Hydroacoustic Surveys in the Baltic
J:5		Report of the Workshop on Baltic Cod Age Reading
J:6		Report of the Study Group on the Evaluation of Baltic Fish Data
J:7		Withdrawn
J:8		Withdrawn
J:9	G. Kornilovs	Yearly length distribution of herring in the Gulf of Riga in relation to populational structure of the stock
Ref. H		
J:10	F. Shvetsov and A. Rudneva	The growth and feeding of sprat in eastern Baltic
Ref. H		
J:11	V. Tshervonsev <i>et al.</i>	The eastern Baltic herring invaded by <i>Anisakis Simplex</i> (Rudolphi, 1809) larvae
Ref. H		
J:12	V. Tshervontsev <i>et al.</i>	Herring spatial distribution depending on food factor
Ref. H		
J:13		Report of the Acoustic Survey in ICES Sub. Div. 21, 22, 23 and 24 in September/October 1993
Ref. B		
J:14	H. Müller	Recruitment of western Baltic Cod
Ref. D, G		
J:15	O. Bagge <i>et al.</i>	Growth and abundance of dab and abundance of plaice in Århus Bay in relation to oxygen conditions 1953-1993
J:16	F. Arrhenius and S. Hansson	Functional response by young-of-the-year Baltic Sea herring (<i>Clupea harengus</i>)
Ref. H		
J:17	A. Krajewska-Soltys and T.B. Linkowski	Densities of potential prey for cod larvae in deep-water basins of the southern Baltic
Ref. L		
J:18	P. Margonski and K. Horbowa	Co-occurrence of medusae and cod eggs in the Bornholm Basin
Ref. L		
J:19	M. Kowalewska-Pahlke	Food composition of young cod sampled in the 1993-1994 young fish surveys
Ref. G, L		
Poster		
J:20	B. Draganik <i>et al.</i>	Results of the screening of fish diseases in the southern Baltic
Ref. F, G, H		
J:21	T. Raid	Structure of Estonian herring catches in the Gulf of Finland
Ref. H		

J - BALTIC FISH COMMITTEE

J:22

Withdrawn

J:23
Poster

L. Vallin and
A. Nissling

Early cell cleavages and their importance for further development in eggs from Atlantic and Baltic cod (*Gadus morhua*)

J:24
Ref. G, L

B.R. MacKenzie
et al.

The contribution of abiotic factors during the pelagic stages to interannual variability in settled 0-group plaice (*Pleuronectes platessa*) abundance in the Kattegat.

J:25
Poster

A. Nissing and
L. Vallin

The ability of Baltic cod eggs to maintain neutral buoyancy and the opportunity for survival in fluctuating conditions in the Baltic Sea

REFERENCE PAPERS: A:7, A:9, A:10, D:1, D:10, D:11 H:3, H:7, H:13, H:15, H:16, L:14, L:20, M:8, M:11, M:15, Assess:10, Env:9

K - SHELLFISH COMMITTEE

K:1		Report of Activities
K:2		Withdrawn
K:3		Report of the Study Group on Life History, Population Biology, and Assessment of <i>Crangon</i>
K:4		Report of the Study Group on the Biology, Life History, and Assessment of <i>Majiid</i> Crabs
K:5		Report of the Study Group on Spatfall and Recruitment in Bivalve Stocks
K:6		Report of the Study Group on Life Histories and Assessment Methods of <i>Pandalus</i> Stocks
K:7		Report of the Study Group on the Life History and Assessment of Cephalopods
K:8		Report of the Study Group on Life Histories and Assessment of <i>Pandalus</i> Stocks in the North Atlantic
K:9		Report of the Study Group on Life Histories and Assessment Methods <i>Nephrops</i> stocks
K:10	P.T. Gouilletquer <i>et al.</i>	Mussel (<i>Mytilus edulis</i>) culture management along the Normandy coastline (France): Stock assessment and growth monitoring
K:11	J.P. Hillis	Advances in the ageing of <i>Nephrops norvegicus</i>
K:12	S. Kuzmin and S. Olsen	Barents Sea king crab (<i>Paralithodes camtschatica</i>). The trans-plantations were successful
K:13	J.K.T. Brodziak and W.K. Macy	Revised estimates of growth of long-finned squid, <i>Loligo pealei</i> , in the Northwest Atlantic based on statolith ageing: Implications for stock assessment and fishery management
K:14 Ref. L	J.R. Weinberg and L. Hendrickson	Factors associated with recruitment of the Atlantic surfclam, <i>Spisula solidissima</i> (Dillwyn)
K:15	T. Neudecker and U. Damm	Regional abundance indices of Brown Shrimp (<i>Crangon crangon</i> L.) at the West Coast of Schleswig-Holstein, North Sea
K:16	E. Hoffmann and P.S. Kristensen	Assessment trials on a blue mussel population in a Danish fjord
K:17 Poster	J. Pellerin- Massicotte	Validation and calibration of the responses of biomarkers in an estuarine ecosystem
K:18 Ref. H	F. Shahidi	Utilization of marine processing discards and underutilized species
K:19	G.Y. Conan and P. Noël	Report of the first meeting of the International Workshop on Majid Crab Biology

K - SHELLFISH COMMITTEE

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|-----------------------------|--|---|
| K:20
Ref. C, L
Poster | M. Rasero | Relationship between cephalopod abundance and upwelling: The case of <i>Todaropsis eblanae</i> (Cephalopoda: Ommastrephidae) in Galician waters (NW Spain) |
| K:21 | P.R. Boyle
and G.J. Pierce | Reproductive strategies of the squid <i>Loligo forbesi</i> (Cephalopoda: Loliginidae) |
| K:22
Poster | G.J. Pierce <i>et al.</i> | Distribution and abundance of the fished population of <i>Loligo forbesi</i> in Scottish waters: analysis of research cruise data |
| K:23
Poster | J. Norman <i>et al.</i> | Preliminary molecular genetic analysis of stock structure in the squid <i>Loligo forbesi</i> (Steenstrup) |
| K:24
Poster | K. Siegert <i>et al.</i> | Application of biochemical indices to measure growth rates in cephalopods |
| K:25
Ref. D, G | G. Stéfansson <i>et al.</i> | The use of a stock production type model in evaluating the offshore <i>Pandalus borealis</i> stock of North Icelandic waters, including the predation of northern shrimp by cod |
| K:26 | | Withdrawn |
| K:27 | | Withdrawn |
| K:28 | | Withdrawn |
| K:29 | V. Hernández-García
and J.J. Castro | A note about the DML distributions and catches of <i>Sepia bertheloti</i> (Cephalopoda: sepiidae) on the Saharan bank |
| K:30 | E. González-Gurriarán
and J. Freire | Habitat, movements and migration of the spider crab <i>Maja squinado</i> in the Ria de Arousa (NW Spain). Preliminary data using ultrasonic telemetry. |
| K:31
Poster | E. González-Gurriarán <i>et al.</i> | Growth at moult and moulting seasonality of the spider crab <i>Maja squinado</i> (Decapoda: Majidae) in experimental conditions |
| K:32 | F. M. Porteiro
and J.J. Gonçalves | Biology of <i>Loligo forbesi</i> (Mollusca: Cephalopoda) in the Azores: morphometric analyses, relative growth and growth by length frequency progression |
| K:33 | M.M. da Cunha
and A. Moreno | <i>Octopus vulgaris</i> : Its potential on the Portuguese coast |
| K:34
Ref. G | D. B. Bennett
and A. R. Lawler | Irish Sea and <i>Nephrops</i> interactions - can the model be validated? |
| K:35 | T.A. Abrajano <i>et al.</i> | ¹³ C/ ¹² C ratios in individual fatty acids of marine mytilids: molecular-level tracers of dietary sources and strategies |
| K:36
Poster | J.A.A. Perez
and R.K. O'Dor | Critical transitions in gladius reconstructed early growth histories of short-finned squid, <i>Illex illecebrosus</i> |
| K:37
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 1993, compared with earlier studies |
| K:38 | S. Tr. Einarsson | The Distribution and density of green sea urchin (<i>Strongylocentrotus droebachiensis</i>) in Icelandic Waters |

K - SHELLFISH COMMITTEE

- K:39 G.G. Thorarinsdóttir and S. Tr. Einarsson Distribution, abundance, populations structure. Meat yield, size of sexual maturity and sex ratio of the ocean quahog *Artica islandica* in Icelandic waters
- K:40 **Withdrawn**
- K:41 A.M. Caramelo and F. Cardador Comparison of VPA Results using two methods for conversion of length to age for *Nephrops* stocks in Portuguese waters (ICES, DIV. IXA)
- K:42 O. Bagge *et al.* Comparative bottom sampling using "Haps" and "Petersen" samplers
- K:43 F. Redant Sexual maturity of female Norway lobster (*Nephrops norvegicus*) in the central North Sea
- K:44 R. Redant and H. Polet Results of a study on the Belgian *Nephrops* fishery in the Central North Sea
- K:45 S.A. Organesyan Biological characteristics and time of Icelandic scallop *Chlamys islandica* spawning on the Kanin bank and off the Bear Island-Spitsbergen
- K:46 N. Clare Eno Monitoring of temperature regimes to which the Pacific oyster *Crassostrea gigas* is subject in coastal inlets in relation to their reproductive success

REFERENCE PAPERS: B:12, B:14, B:20, B:32, B:39, E:17, F:9, F:15 (poster), G:29, M:5

L - BIOLOGICAL OCEANOGRAPHY COMMITTEE

- L:1 Report of Activities, 1993
- L:2 Publications of interest to the Biological Oceanography Committee, 1993
- L:3 Report of the Study Group on Seabird/Fish Interactions 1993
Ref. C
- L:4 Report of the Benthos Ecology Working Group
- L:5 Report of the ICES/IOC Working Group on Harmful Algal Bloom Dynamics
Ref.C
- L:6 Report of the Working Group on Phytoplankton Ecology
Ref. E
- L:7 Report of the Study Group on Methods of Spatial and Temporal Integration — **Withdrawn**
- L:8 Report of the Study Group on Zooplankton Production
- L:9 Report on the Laboratory Workshop on *Calanus*, for 2-3 weeks in April/May 1994
- L:10 Report of the Workshop on Trans-Latitudinal Study of *Calanus finmarchicus* in the North Atlantic
- L:11 Joint Session of the ICES/IOC Working Group on Harmful Algal Bloom Dynamics and the Working Group on Shelf Seas Oceanography
Ref.C
- L:12 Report of the Working Group on Recruitment Processes
- L:13 Report of the OCES/IOC Workshop on Intercomparison of *in situ* Growth Rate Measurements (Dinoflagellates)
- L:14 Report of the Study Group on Fishbase
Ref. G,H,J
- L:15 Report of the Study Group on Gulf III Sampler Efficiency
- L:16 Maria H. Alfonso Study of the ichthyoplankton of commercial species off Portuguese continental coast
Ref. G, H *et al.*
- L:17 Sabine Alshuth Salinity and temperature tolerance limits for larval spotted sea-trout *Cynoscion nebulosus* C. (Pisces: Sciaenidae)
Ref. M and R. Grant Gilmore
- L:18 K. Sherman *et al.* Zooplankton prey field variability during collapse and recovery of pelagic fish in the Northeast Shelf Ecosystem
- L:19 K. Sherman Sustainability, biomass yields, and health of coastal ecosystems: An ecological perspective
- L:20 H. Müller Quantitative analysis of Rügen spring spawning herring larvae surveys with regard to the recruitment of the western Baltic and Division IIIa Stock
Ref. H, J and B. Klenz

- L:21 E. Gaard Advection and seasonal development of the copepod *Calanus finmarchicus* on the Faroe Plateau
- L:22 W. Melle Spawning and development of *Calanus* spp. in the Barents Sea
Ref. D and H.R. Skjoldal
- L:23 J.M. MacGregor Onshore-offshore pattern and variability in distribution and abundance of bay anchovy, *Anchoa mitchilli*, eggs and larvae in Chesapeake Bay
Ref. H and E.D. Houde
- L:24 Ø. Kaasa and Seasonal variations in the plankton community in Eyjafjörður, North Iceland
K. Gudmundsson
- L:25 P. Solemdal *et al.* Field investigations of the maternal effects in Arcto-Norwegian cod (*Gadus morhua* L.) on the eggs and early larvae in Lofoten during March–April 1994
Ref. G
- L:26 P. Ouellet *et al.* Cod (*Gadus morhua*) spawning and vertical egg distribution in the northern Gulf of St. Lawrence
Ref. G
Poster
- L:27 H.J. Lindeboom *et al.* (Sudden) changes in the biota of the North Sea: Oceanic influences underestimated?
Ref. C,E,G
- L:28 C. Veeschkens *et al.* Distribution of plankton parameters in the northeastern North Sea in relation to vertical physical structures (Campaigns ECOFRONT 88 and 94).
Poster
- L:29 K.G. Foote Comparison of equal-area cylindrical and circular piston transducers
- L:30 K.G. Foote Performance of an acoustic sonde design
- L:31 A.I. Agatova *et al.* Biochemical monitoring of marine ecosystems
Poster
- L:32 **Withdrawn**
- L:33 J.A. Lindley ICES Identification Leaflets for Plankton. Editors Report
Ref. Pub. 1993/1994.
- L:34* Report of the Study Group on Seabird/Fish Interactions September 1994

REFERENCE PAPERS: A:7, A:9, A:10, B:40, C:1, C:5, E:9, E:10, E:18, G:9, G:33, H:19, H:23, J:17, J:18, J:19, J:24, K:20 (poster), N:4

M - ANACAT FISH COMMITTEE

M:1		Report of Activities, 1993
M:2		Publications of interest to the Anadromous and Catadromous Fish Committee, 1993
M:3 Ref. F		Report of the Study Group on Interactions of Wild, Ranched (Enhanced), and Reared Salmon
M:4		Report of the Study Group on Anadromous Trout
M:5 Ref.G,H,K		Report of the Study Group on Identification Protocols for Finfish and Shellfish
M:6		Report of the Workshop of Salmon Spawning Stock Targets in the North-East Atlantic
M:7	K. Friedland and R.E. Haas	Patterns of post-smolt growth and early maturation of Atlantic salmon (<i>Salmo salar</i>)
M:8 Ref. J	Ari Saura	Stocking results of the cultivated rainbow trout (<i>Oncorhynchus mykiss</i>) smolt in the Gulf of Finland
M:9	N. O'Maoileidigh <i>et al.</i>	Exploitation of reared salmon released into the Burrishoole river system
M:10	N. O'Maoileidigh <i>et al.</i>	High seas and homewater exploitation of an Irish reared salmon stock
M:11 Ref. J	E. Ikonen <i>et al.</i>	Results of a blindfold test on Baltic salmon (<i>Salmo salar</i> L.) scale reading
M:12 Ref. J	E. Ikonen	Withdrawn
M:13	L.P. Hansen <i>et al.</i>	The incidence of farmed Atlantic salmon in the long-line fishery at Faroes and in Norwegian home waters
M:14	S. Gudjonsson and H. Gudmundsson	Development and testing of a new light gate fish counter in rivers
M:15		Withdrawn
M:16 Ref. F	G. Blanco <i>et al.</i>	Genetic variation and age at maturity in populations of Atlantic salmon of northern Spain
M:17	L. Karlsson <i>et al.</i>	Timing of the Baltic salmon run in the Gulf of Bothnia. Influence of environmental factors on annual variation.
M:18		Withdrawn
M:19	Ö. Karlström and P. Byström	Estimates of the smolt run in the river Torne Älv 1987-1993
M:20	T. Antonsson <i>et al.</i>	Environmental continuity in fluctuation of fish stocks in the North Atlantic ocean; with reference to Atlantic salmon stocks
M:21	J. Guillouët and F. Caron	Indirect estimate of Atlantic salmon escapement in Quebec rivers

M - ANACAT FISH COMMITTEE

- | | | |
|----------------|------------------------------------|---|
| M:22 | P. Debowski | Homing of tagged sea (<i>Salmo trutta</i> L.) smolts trout released into Polish rivers |
| M:23 | J. Domagala and
H. S. Faryniarz | Number of Pyloric Caeca as Possible Marker of Trout (<i>Salmo trutta m. trutta</i> L.) Stocks in Pomeranian Rivers |
| M:24 | A.V. Zubchenko | Salmon rivers of the Kola Peninsula. Their reproductive potential and Atlantic salmon stock state in the river Tuloma |
| M:25 | A.V. Zubchenko | Salmon rivers of the Kola Peninsula. Analysis of status and possible measures to manage population structure of Atlantic salmon in the Kola river |
| M:26 | D. Dunkley <i>et al.</i> | Withdrawn |
| M:27
Ref. F | I.A. Sanchez <i>et al.</i> | Relationships between genetic variability and precocious maturity and smolting in Atlantic salmon |
| M:28 | | ICES Compilation and Microtag, Finclip and External Tag Releases in 1993 |

REFERENCE PAPERS: F:17, L:17, Assess:10, Assess:15, Assess:16, Env.:9

N - MARINE MAMMALS COMMITTEE

- | | | |
|-----------------------------------|--------------------------------------|--|
| N:1 | | Report of Activities 1993 |
| N:2
Ref. E | | Study Group on Seals and Small Cetaceans in European Seas |
| N:3 | | Publications of interest to the Marine Mammals Committee |
| N:4
Ref. H, L | Finn O. Kapel | Variation in the feeding of harp seals (<i>Phoca groenlandica</i>) in the Southwest Greenland waters |
| N:5
Ref. B, D
Poster | Finn O. Kapel | A review of recoveries in Greenland of tagged or branded harp and hooded seals |
| N:6 | S. Northridge
and T.D. Smith | The use of a geographical information system in analysing and representing catch or sightings data |
| N:7 | F. Shahidi and
J. Synowiecki | Potential benefits and quality characteristics of carcass components of harp seal (<i>Phoca groenlandica</i>) |
| N:8 | G.B. Stensson | Pup production and population growth of hooded seals (<i>Cystophora cristata</i>) Near Newfoundland, Canada |
| N:9
Poster | B. Sjare and
G.B. Stenson | Comments on Incidental Catches of Seals in the Newfoundland Gillnet Fishery |
| N:10 | A. Garcia-Castrillo
<i>et al.</i> | Les mammifères marins du Nord et du Nord-Ouest de L'Espagne en 1993 |
| N:11
Poster | M.B. Santos <i>et al.</i> | Diets of small cetaceans stranded from the Scottish coast |
| N:12
Ref. G, H | K.T. Nilssen <i>et al.</i> | Studies of food availability and diet of harp seals (<i>Phoca groenlandica</i>) in the southeastern Barents Sea in February 1993 |
| N:13 | | Withdrawn |
| N:14
Ref.H,G,L
Rec. abs. | T. Haug <i>et al.</i> | Studies of minke whale (<i>Balaenoptera acutorostrata</i>) ecology in the Northeast Atlantic: Description of the 1993 scientific catch operations and preliminary results from stomach analyses and resource surveys |
| N:15 | | Withdrawn |
| N:16 | V. Hernández-García
<i>et al.</i> | Stomach contents of two short-finned pilot whale (<i>Globicephala macrorhynchus</i> Gray, 1846) (Cetacea, Delphinidae) off the Canary Islands: A preliminary note |

REFERENCE PAPER: A:8

MINI-SYMPOSIUM ON FISH MIGRATION (MINI)

Mini:1	D.W. Kulka <i>et al.</i>	Changes in the winter distribution and migration patterns of northern cod (<i>Gadus morhua</i>) on the Newfoundland Labrador Shelf as determined from commercial fisheries data
Mini:2	D.P. Swain	Changes in the distribution of Atlantic cod (<i>Gadus morhua</i>) in the southern Gulf of St Lawrence: environmental change or change in preference?
Mini:3	S.J. Smith and F. Page	Interannual trends in the association between groundfish and hydrographic variables: implications for management
Mini:4	K. Drinkwater	Environmental changes in the Labrador Sea and their effect on fish stocks
Mini:5	N.L. Shackell <i>et al.</i>	Diel vertical migration of capelin (<i>Mallotus villosus</i>) and its effect on acoustic estimates of density
Mini:6	M. Castonguay <i>et al.</i>	Is there a role of ocean environment in American and European eel decline?
Mini:7	M. Healy <i>et al.</i>	Biophysical controls of salmon migration and production in the Northeast Pacific
Mini:8	M. Walsh <i>et al.</i>	Distribution and environment of the western mackerel stock north of Scotland in January 1994
Mini:9	M.T. Hafsteinsson and O.A. Misund	Mapping the migration pattern of schooling fish by use of multi-beam sonar during conventional acoustic surveys
Mini:10	M. Castonguay and D. Gilbert	Effects of tidal streams on migrating Atlantic mackerel, <i>Scomber scombrus</i>
Mini:11	J.D. Metcalfe <i>et al.</i>	The migratory behaviour of plaice in the North Sea as revealed by data storage tags.
Mini:12	O.R. Godø <i>et al.</i>	The use of transplantation - tagging-experiments in studies of migratory diversity of cod off Norway
Mini:13	G.A. Rose <i>et al.</i>	Tracking cod migration on the NE Newfoundland shelf: 40 days at sea in 1992
Mini:14		Withdrawn
Mini:15 Poster	H. Gislason and P. Sparre	Some thoughts on the incorporation of areas and migrations in MSVPA
Mini:16	A.D. Rijnsdorp and M. Pastoors	A simulation model of the spatial dynamics of North Sea plaice (<i>Pleuronectes platessa</i> L.) based on tagging data
Mini:17	G.P. Arnold and B.H. Holford	A computer simulation model for predicting rates and scales of movement of demersal fish on the European continental shelf
Mini:18 Poster	B. Villamor and C. Porteiro	Distribution and seasonality of mackerel (<i>Scomber scombrus</i>) in the Cantabrian Sea and Galician waters (ICES Division VIIIc and sub-division IXa North)

MINI-SYMPOSIUM ON FISH MIGRATION (MINI)

- Mini:19 J.D. Metcalfe *et al.* The Lowestoft data storage tag used in studies of fish migration
Poster
- Mini:20 **Withdrawn**
- Mini:21 J.S. Gunn *et al.* The development and use of archival tags for studying the migration, behaviour and physiology of southern bluefin tuna, with an assessment of the potential for transfer of the technology to groundfish research

THEME SESSION ON NON-TARGET SPECIES (O)

O:1 Poster	H.J.L. Heessen	Bluemouth (<i>Helicolenus dactylopterus</i>): a new species in the North Sea?
O:2 Poster	H.J.L. Heessen and Paddy Walker	Distribution and biology of four ray species in the North Sea
O:3	H. Heessen and N. Daan	Distribution and abundance of grey gurnard (<i>Eutrigla gurnardus</i>) in the North Sea
O:4	M. Vecchione <i>et al.</i>	Distribution and biology of non-commercial cephalopod species from the Northeastern Continental Shelf of the United States
O:5	Withdrawn	
O:6	G.K. Lilly <i>et al.</i>	Distribution and abundance of polar cod (<i>Boreogadus saida</i>) off southern Labrador and Eastern Newfoundland
O:7 Poster	Å. Dagrunn Wik and O.A. Bergstad	Distribution, size composition and trophic ecology of velvet belly (<i>Etmopterus spinax</i> , L. 1758) and rabbit fish (<i>Chimaera monstrosa</i> L., 1758) in the Norwegian Deep
O:8	O.T. Albert <i>et al.</i>	Long rough dab (<i>Hippoglossoides platessoides</i>) of the Barents Sea and Svalbard area: ecology and resource evaluation
O:9	M.S. Shevelev	Migration pattern of spotted catfish (<i>Anarhichas minor</i> Olafsen) in the Barents Sea and adjacent waters
O:10	K.M. Sokolov and M.S. Shevelev	New findings of egg clutches of wolffish (<i>Anarhicas</i> spp.) in the Barents Sea
O:11	N.V. Mukhina	Distribution and abundance dynamics of larvae of non-target fish species in the northeastern Norwegian and southwestern Barents Sea
O:12	A.V. Dolgov	Some aspects of biology of non-target fish species in the Barents Sea

**THEME SESSION ON MULTISPECIES INTERACTIONS OF IMPORTANCE TO THE
GROUND FISH ABUNDANCE FLUCTUATIONS (P)**

P:1	P.A. Livingston	Overview of multispecies interactions involving walleye pollock in the eastern Bering Sea and Gulf of Alaska
P:2	S.A. Pedersen	Multispecies interactions on the offshore West Greenland shrimp grounds
P:3	M.J. Fogarty and J.K. Brodziak	Multivariate time series analysis of fish community dynamics on Georges Bank
P:4	G.T. Waring	Spatial and temporal patterns in harbor seal entanglements in the Gulf of Maine sink gillnet fishery
P:5	E. Grunwald and F. Köster	Feeding habits of Atlantic cod in West-Greenland waters
P:6		Withdrawn
P:7	M. Shima <i>et al.</i>	A spatial model of marine mammal fishery interactions in the Gulf of Alaska, USA and comparisons to other ecosystems
P:8	G.Y. Conan	Can simple linear correlation analysis satisfactorily detect environmental or interspecific effects on fisheries landings in a chaotic oceanic universe?
P:9	I. Olaso <i>et al.</i>	Influence of anchovy and blue whiting in the feeding of northern Spain hake
P:10		Withdrawn
P:11	B.K. Mohn and W.D. Bowen	A Model of grey seal predation on 4VSW cod and its effects on the dynamics and potential yield of cod
P:12	O.P. Pedersen	A multispecies model of a fjord system
P:13		Withdrawn
P:14	P.D. Spencer and Jeremy S. Collie	Modeling seasonally predation in marine environments

**THEME SESSION ON IMPACT OF
THE 1993 MAJOR INFLOW TO THE BALTIC SEA (Q)**

Q:1	W. Matthäus and H. Schinke	Mean atmosphere circulation patterns associated with major Baltic inflows
Q:2	W. Fennel and T. Seifert	Dynamics of the transition area between the Baltic Sea and the North Sea
Q:3	W. Matthäus <i>et al.</i>	Effects of the inflows of salt-rich water during 1993 and early 1994 in the Central Baltic Sea
Q:4 Ref. C.	H. Westerberg	The transport of cod eggs and larvae through Öresund
Q:5	B. Klenz	Distribution of ichthyoplankton in the Western Baltic regarding cod recruitment
Q:6		Withdrawn
Q:7 Poster	B. Hekansson and B. Carlsson	Exchange of salt and water volumes taking place between the North Sea and the Baltic Sea through the Sound in 1993
Q:8 Poster	H. Dahlin and B. Broman	On the importance of smaller inflows succeeding the major inflow of January 1993 to the Baltic Sea
Q:9 Poster	A. Lehmann	The major Baltic inflow 1993 - A numerical model simulation

**THEME SESSION ON
PELAGIC FISH AND PLANKTON INTERACTIONS IN MARINE ECOSYSTEMS (R)**

- | | | |
|---------------|-------------------------------------|--|
| R:1 | J. Luo and
B. Brandt | Virtual reality of planktivores: Are fish really size selective? |
| R:2 | W. Silvert | Bloom dynamics in marine food chain models with migration |
| R:3 | | Withdrawn |
| R:4
Poster | R.J.P Meschishnick
<i>et al.</i> | Ingestion of microbial prey by fish larvae |
| R:5
Poster | V. Puvanendran
and J.A. Brown | Differential response of longitudinally separate populations of cod larvae (<i>Gadus morhua</i>) to light levels |
| R:6
Poster | V. Gotceitas <i>et al.</i> | An investigation of the match/mismatch hypothesis with Atlantic cod larvae |
| R:7 | Ø. Fiksen <i>et al.</i> | Spatial patterns of capelin habitat profitability in the Barents Sea |
| R:8 | H. Gjøsæter <i>et al.</i> | Interactions between the capelin stock and the zooplankton in the Barents Sea ecosystem |
| R:9 | W. Melle <i>et al.</i> | Feeding and migration of Norwegian spring spawning herring in the Norwegian Sea |
| R:10 | V. Wespestad <i>et al.</i> | Juvenile sockeye salmon (<i>Oncorhynchus nerka</i>) predation on Bering Sea red king crab (<i>Paralithodes camtschatica</i>) larvae as a cause of recruitment variation |
| R:11 | | Withdrawn |
| R:12 | G.Y. Conan <i>et al.</i> | Is match/mismatch the universal ill fated mechanism de-regulating stock/recruitment models? Snow crab (<i>Chionoecetes opilio</i>) prove that some species may precisely sense optimal plankton production for a timely release of their larvae. |

**THEME SESSION ON LARGE-SCALE CIRCULATION CHANGES IN THE NORTH
ATLANTIC ON TIME SCALES OF CLIMATIC CHANGES (S)**

- S:1 **Withdrawn**
- S:2 G. Ottersen *et al.* Statistical modelling of temperature variability in the Barents Sea
- S:3 A. Lavin *et al.* Decadal time changes in the circulation at 24°N in the Atlantic Ocean
- S:4 B. Hansen and R. Kristiansen Long-term changes in the Atlantic water flowing past the Faroe Islands
- S:5 B. Hansen *et al.* Bottom temperature between Iceland and Shetland 1906-1962 measured in telegraph cables
- S:6 S. Levitus *et al.* Interannual variability of upper ocean thermal structure of the North Atlantic
- S:7 K.P. Koltermann and K. Warrach Large scale changes in the North Atlantic circulation on decadal time-scales at intermediate depths
- S:8 S-Å Malmberg *et al.* Long time series in Icelandic waters in relation to physical variability in the northern North Atlantic
- S:9 I.M. Yashayaev On the year-to-year variability of Newfoundland basin hydrological fields, from 12-years field experiments (1980-1992)
- S:10 S.S. Lappo *et al.* Long-period changes in the intermediate and deep water circulation in the North Atlantic
- S:11 U.V. Paul and A. Sy Differences of properties and circulation in the North Atlantic from two long hydrographic sections between Greenland and Ireland
- Poster**
- Reference paper:**
- L:10 Report of the Workshop on Trans-Latitudinal Study of *Calanus finmarchicus* in the North Atlantic, 6-8 April 1994, Oslo, Norway

**THEME SESSION ON IMPROVING THE LINK BETWEEN FISHERIES SCIENCE AND
MANAGEMENT: BIOLOGICAL, SOCIAL AND ECONOMIC CONSIDERATIONS (T)**

T:1	J.F. Caddy	Checks and balances in the management of marine fish stocks: Organizational requirements for a limit reference point approach
T:2	Gérard Biais	A decade of fisheries resources management by TACs in European Community waters from 1983 to 1992
T:3		Withdrawn
T:4	G. Palsson and A. Helgason	Figuring fish and measuring men: The quota system in the Icelandic cod fishery
T:5		Withdrawn
T:6	R. Townsend	Comprehensive property rights: Fishery trusts
T:7 Poster	E. Thunberg and Thomas Helser	An age-structured bioeconomic model to evaluate changes in mortality in the United States Atlantic silver hake fishery
T:8 Poster	L. Richards and J. Fargo	Comparing data collected by observers and skippers in the British Columbia trawl fishery
T:9 Poster	Per J. Sparre	The data requirements for basic fisheries bio-economics
T:10	P.M. Clay and J.R. McGoodwin	Utilizing social sciences in fisheries management
T:11	J.P. Hillis and M O'Morchoe	Restoring a depleted fishery by different methods including mesh control, decommissioning and individual quota; a bio-socio-economic comparison
T:12 Poster	A.M. Powers	The work of culture and the culture of work: some considerations for decision making in the fisheries
T:13		Withdrawn
T:14	A.K. Veim <i>et al.</i>	Bycatch of juvenile fish in the shrimp fishery - management based on bioeconomic criteria
T:15	B.J. McCay	Individual transferable quotas in clams and fish: a comparative analysis
T:16	A.B. Hollowed <i>et al.</i>	An examination of marine mammal and walleye pollock fisheries interactions in the Gulf of Alaska using a stochastic bioeconomic simulation model
T:17	W. Dubinsky	Agency, structure and the interactive dimension of fisheries management: the regulated vs. the regulator
T:18	G.G. Thompson	A general diffusion model of stock-recruitment systems with stochastic mortality
T:19 Poster	G.M. Jansson <i>et al.</i>	A bio-economical model for north sea flatfish

**THEME SESSION ON IMPROVING THE LINK BETWEEN FISHERIES SCIENCE AND
MANAGEMENT: BIOLOGICAL, SOCIAL AND ECONOMIC CONSIDERATIONS (T)**

T:20	A. Maurstad and J.H. Sundet	Improving the link between science and management: drawing upon local fishers' experience
T:21	D. Symes and K. Crean	Social objectives, social research and the re-calibration of management policies in fisheries: the case of the European Union
T:22	J.M. Ward	A description and evaluation of the individual transferable quota (ITQ) fisheries management program for the south Atlantic-wreckfish (<i>Polyprion americanus</i>) fishery
T:23		Withdrawn
T:24	K. Weber	Analysis of decision-making processes in the ivoirian maritime fisheries sector
T:25 Poster	I.M. Kaplan and C. Boyer	Ecological and policy trends related to the North Atlantic conch (BUSYCON) fishery
T:26	A.I.L. Payne and K.L. Cochrane	Managing fisheries in a changing society with a well-developed science base
T:27	C. Creed <i>et al.</i>	ITQ;s community and construction: The case of the Scotia-Fundy inshore mobile gear groundfish fishery
T:28	J.F. Kearney	Fishers' adaptive strategies, ethnoscience, and local level decision-making: anthropological perspectives on an integrated approach to fisheries science and management
T:29	G. L. Brander and D. L. Burke	Rights-based vs. competitive fishing of sea scallops in Nova Scotia
T:30	D.D. Hoggarth	Management strategies and their sensitivity to parameter uncertainties in a model of artisanal river fisheries
T:31	J. Mørkøre	When long term objectives and short term interests collide
T:32		Withdrawn
T:33	R.O. Rasmussen	Types of social importance of fisheries
T:34	E. Vestergaard	Obstacles within fisheries
T:35	L. Burke <i>et al.</i>	The Scotia-Fundy inshore dragger fleet ITQ program, background, implementation, and results to date
T:36	E. Hoffmann	A marine ecosystem and an economic and ethnological analysis of the consequences of utilizing its biological resources
T:37 Poster	M. Woodrow	Community adaption to fisheries management practices in Newfoundland
T:38	E.M. Smith	The nature of nature: conflict and consensus in fisheries management
T:39		Withdrawn

**THEME SESSION ON IMPROVING THE LINK BETWEEN FISHERIES SCIENCE AND
MANAGEMENT: BIOLOGICAL, SOCIAL AND ECONOMIC CONSIDERATIONS (T)**

T:40 Poster	R.L. Stephenson <i>et al.</i>	The Scale(s) of management: An impediment of linking biological, social and economic consideration in management?
T:41	D.E. Lane and R.L. Stephenson	Fisheries Management Science the framework to link biological, economic and social objectives in fisheries management
T:42	J. Rice and L. Richards	Partnership and roles. The Pacific Canadian rockfish fishery
T:43	G. Stefansson <i>et al.</i>	Utilization of the Icelandic cod stock in a multispecies context
T:44		Withdrawn
T:45		Withdrawn
T:46	J.S. Loch and J.B. Jones	An improved link between industry, management and science: a case history - the southern Gulf of St. Lawrence snow crab fishery
T:47 Poster	S.E. Squires	Labour recruitment and economic realities in the Newfoundland fishing industry
T:48	J.-J. Maguire <i>et al.</i>	Fisheries management is people management: contributions of social science to marine biology and fisheries management
T:49	P. Rodgers	The interface of economics with fisheries science: understanding each others potential contribution to fisheries management
T:50		Withdrawn
T:51	J. Catanzano and B. Mesnil	Economics and biology science used in fisheries research or when social and natural sciences try to depict together their object of research
T:52	P. Young and J. Wallace	An evaluation of the balance of power between government, industry, and science in managing Australia's federal fisheries (Setting the fox to guard the henhouse)
T:53	M. Gardner	Input controls vs. rights-based fishing: case studies in meeting resource management objectives
T:54	R. Shotton	Attitudes to risk relative to decisions regarding levels of fish harvesting
T:55	R. Hannesson	Rights-based fishing: the role of property rights in fisheries management
T:56		Withdrawn
T:57 Poster	M. Vecchione and B.C. Collette	Fisheries, systematics and marine biodiversity
T:58	M. Sinclair <i>et al.</i>	A report card on quota management: the Scotia-Fundy groundfish example

JOINT SESSION ON QUALITY ASSURANCE OF MARINE MEASUREMENTS

- (C+E+L):1 L.J. Rickards BODC Quality assurance procedures for physical oceanographic data
- (C+E+L):2 S. Carlberg Quality assurance - What it is and what it is not
- (C+E+L):3 L. Hernroth Quality assurance - a new fashion? Maybe, but certainly a tool to improve the quality of data.
- (C+E+L):4 D.E. Wells *et al.* Quality assurance of marine measurement QUASIMEME: the first year of an holistic QA project
- (C+E+L):5 P.A. Gurbutt and K.J. Medler Data quality is more than an intercomparison
- (C+E+L):6 H.D. Dooley When data are good they are very very good, but when they are bad they are horrid.

**JOINT SESSION ON OCCURRENCE AND EFFECTS OF CONTAMINANTS IN MARINE
MAMMALS**

- | | | |
|--------------------------|-----------------------------------|---|
| (E+N):1
Poster | J. Hellou and
G. Stenson | Fluorescing compounds PAH, PCB and biogenic hydrocarbons in muscle, liver, kidney and blubber of marine mammals |
| (E+N):2 | M.E. Dahlheim | Effects of the Exxon Valdez oil spill on Cetaceans |
| (E+N):3 | J. Utne Skaare <i>et al.</i> | Organochlorine contaminants in marine mammals from the Norwegian Arctic |
| (E+N):4 | O. Espeland <i>et al.</i> | Seasonal variation in organochlorine concentrations in harp seal (<i>Phoca groenlandica</i>) from the Barents Sea region |
| (E+N):5 | L. Kleivane <i>et al.</i> | Organochlorines in harbour porpoise (<i>Phocoena phocoena</i>) from Scandinavian waters |
| (E+N):6 | B. Munro Jenssen
<i>et al.</i> | Biomarkers in blood to evaluate biological effects of organochlorines in free-living grey seal pups |
| (E+N):7
Poster | B. Kløven <i>et al.</i> | Body burdens of organochlorines in grey seal pups |
| (E+N):8
Poster | O. Haugen <i>et al.</i> | Vitamin A plasma-status and organochlorine concentration in blood of free-living grey seal pups |
| (E+N):9 | R.J. Law and
C.R. Allchin | Organochlorines in the blubber of bottlenose dolphins (<i>Tursiops truncatus</i>) and harbour porpoises (<i>Phocoena phocoena</i>) from Cardigan Bay (Wales) and the Moray Firth (Scotland) |
| (E+N):10 | D.E. Wells and
C. MCKenzie | Techniques for pattern recognition of organochlorine residues in sea mammals from Scottish coastal waters |
| (E+N):11 | W. T. Stobo | Distribution and trends of organochlorides in Canadian seals: the toxicological significance |

**JOINT SESSION ON ESTIMATING ABUNDANCE
FROM FISHING SURVEYS AND ACOUSTIC MEASUREMENTS**

- (B+D+G+H):1 I. Røttingen *et al.* Acoustic abundance estimation of wintering Norwegian spring spawning herring, with emphasis of methodological aspects
- (B+D+G+H):2 K.G. Foote Extinction cross section of herring: New measurements and speculation
- (B+D+G+H):3 S.J. Smith Evaluating statistical properties of trawl survey estimates of mean abundance
- (B+D+G+H):4 G.Y. Conan and F. Maynou Mapping and assessment of fisheries resources with coastal and depth constraints, the case study of snow crab in the Bay of Islands fjord (Newfoundland)
- (B+D+G+H):5 E.J. Simmonds Age structure and estimated mortality as an error indicator for acoustic surveys with information on numbers at age

ACFM - ADVISORY COMMITTEE ON FISHERY MANAGEMENT

ACFM:1* Agenda, ACFM Consultations at the 1994 Annual Science Conference

ASSESSMENT WORKING GROUP REPORTS - 1994

Assess:1 Report of the Working Group on Multispecies Assessment of Baltic Fish
Assess:2 Report of the Arctic Fisheries Working Group
Assess:3 Report of the Working Group on the Assessment of Southern Shelf Demersal Stocks
Assess:4 Report of the Blue Whiting Assessment Working Group
Assess:5 Report of the Joint ICES/NAFO Working Group on Harp and Hooded Seals
Assess:6 Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Assess:7 Working Group on the Assessment of Norway Pout and Sandeel
Assess:8 Report of the Atlanto-Scandian Herring and Capelin Working Group
Assess:9 Report of the Multispecies Assessment Working Group
Assess:10 Report of the Sub-Group of the Baltic Salmon and Trout Assessment Working Group
Ref J + M
Assess:11 Report of the Working Group on Long-Term Management Measures
Assess:12 Report of the Working Group on *Nephrops* and *Pandalus* Stocks
Assess:13 Report of the Herring Assessment Working Group for the Area South of 62°N
Assess:14 Report of the Study Group on the North Sea "Plaice Box"
Assess:15 Report of the Baltic Salmon and Trout Assessment Working Group
Ref. M
Assess:16 Report of the North Atlantic Salmon Working Group
Ref. M
Assess:17 Report of the Working Group on the Assessment of Demersal Stocks in the Baltic
Assess:18 Report of the Working Group on the Assessment of Pelagic Stocks in the Baltic
Assess:19 Report of the North-Western Working Group

ACME - ADVISORY COMMITTEE ON THE MARINE ENVIRONMENT

ACME:1* Agenda, ACME Consultations at the 1994 Annual Science Conference

ENV - ENVIRONMENT-RELATED WORKING GROUP REPORTS

Env:1 Marine Chemistry Working Group
Ref. C+E

Env:2 Joint Session 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 Environmental Assessment and Monitoring Strategies
Ref.E

Env:5 Working Group on Marine Sediments in Relation to Pollution
Ref.E

Env:6 Working Group on Statistical Aspects of Environmental Monitoring
Ref.D+E

Env:7 Working Group on Introductions and Transfers of Marine Organisms
Ref.F

Env:8 Sub-Group on Temporal Trend Monitoring Programmes for Contaminants in Biota
Ref. E+D

Env:9 Report of the Study Group on Occurrence of M-74 in Fish Stocks
Ref. E,F+M,J

Env.10 Report of the Steering Group on Integrated Study of Processes of Pollutant Transfer
and Effects on Biota — **Withdrawn**
Ref. C+E

Env. 11 ICES 1994 Code of Practice on Introductions and Transfers of Marine Organisms

JOINT MEETING ACFM/ACME

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